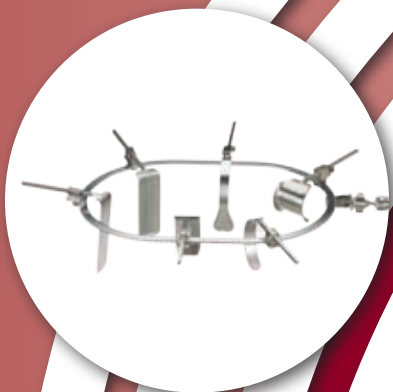
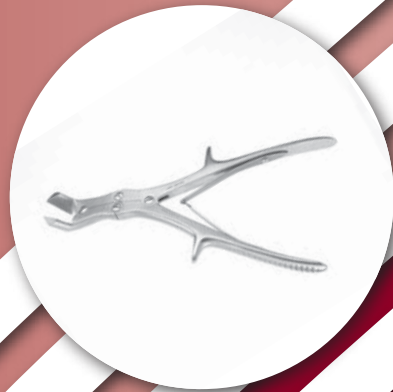
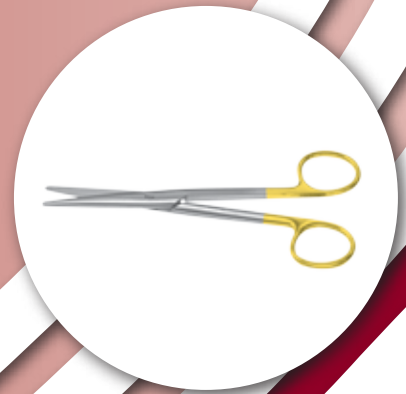




PRODUCT CATALOG

Innovations. For Life.





OUR MISSION IS
SINGULARLY DEDICATED
TO THE DESIGN,
PRODUCTION AND SERVICE
OF THE WORLD'S FINEST
SURGICAL INSTRUMENTS.
OUR STEADFAST
COMMITMENT TO THE
SURGICAL COMMUNITY
PROVIDES INNOVATION AND
QUALITY WITHIN A
UNIQUELY COST-EFFECTIVE
DELIVERY SYSTEM.

JARIT... THE INSTRUMENT PEOPLE

JARIT IS INSTRUMENTS... For more than 30 years JARIT has provided its customers quality, innovation and integrity in surgical instrumentation. With corporate headquarters in Hawthorne, New York and operation headquarters in Tuttlingen, Germany, JARIT has been able to offer its customers the combination of American ingenuity and German excellence.

JARIT IS COMMITMENT... We are committed to deliver high quality surgical instruments in today's intense health care cost environment. In addition, JARIT is committed to identifying new and innovative technology. JARIT is committed to education by providing our customers experienced operating room specialists to support the training and development needs of the operating room and central service departments. JARIT has a steadfast commitment to the satisfaction of each of our customer's needs.

JARIT IS SERVICE... The Hawthorne, New York distribution center maintains the industry's most comprehensive inventory to guarantee our 99% fill rate. JARIT service starts with our Regional Managers and Specialty Medical Device Dealers who provide technical and clinical support for both the operating room and the central service departments. The JARIT Custom Inventory Management Services (CIMS) program provides our customers value-added services for the day-to-day successful management of all instrument needs.

JARIT IS QUALITY... All instruments are manufactured from the highest-grade surgical stainless steel, which is ground, polished and sharpened to perfection. All JARIT instruments are 100% inspected for smoothness, ergonomics and the "feel" that surgeons demand of a surgical instrument.

JARIT IS INNOVATION... The product development team has introduced new and innovative instruments in collaboration with leading surgeons around the world. This development effort has resulted in making JARIT a leader in laparoscopic surgical instruments and general instrumentation. Some examples include the JARIT Appel¹ Needle Holder, P.E.E.R.^{®2} Retractor, Hunter³ Bowel Grasper, Lobe⁴ Spleen Extractor, Herron⁵ ARTICULATOR[®] Retractor, Lyons⁶ Needle Forceps, and the Swanström⁷ Grasping Forceps.

JARIT IS VALUE... Our customer is the most valuable asset to JARIT. We value your trust in JARIT, and we understand the investment a hospital makes when purchasing instruments. We are committed to meet both the clinical and financial needs of the hospital, recognizing the cost containment pressures our customers face today.

1 Developed in cooperation with Sidney D. Appel, M.D., DeKalb Medical Center, Atlanta, Georgia.

2 The Padron Endoscopic Exposing Retractor (P.E.E.R.) was developed in cooperation with José Padrón Amaré, M.D., FACS, Centro Médico De Caracas, Venezuela.

3 Developed in cooperation with John Hunter, M.D., FACS, Professor and Chairman, Department of Surgery, Oregon Health & Science University,

4 Developed in cooperation with Thom E Lobe, M.D., University of Tennessee, Memphis, Tennessee.

5 Developed in cooperation with Daniel M. Herron, M.D., F.A.C.S., Mount Sinai Hospital, NY, NY.

6 Developed in cooperation with Thomas L. Lyons, M.D., FACOG, Atlanta, Georgia.

7 Developed in cooperation with Lee L. Swanström, M.D., FACS, Legacy Portland Hospital, Portland, Oregon.

All JARIT Instruments are unconditionally guaranteed against defects in material and workmanship. JARIT will, at its option and without charge, either repair or replace any instrument which JARIT determines to be defective in material or workmanship when used for its intended surgical purpose.

All instruments sold by JARIT are warranted only to the original purchaser and only against defects in workmanship or materials which under the intended use render such instruments inoperable.

All JARIT CARB-BITE and JARIT CARB-EDGE instruments are further warranted for a period of three (3) years under normal use. Should any adjustment become necessary during this warranty period, CARB-EDGE Scissors will be resharpened, and CARB-BITE Needle Holder jaw inserts will be replaced, without charge.

All JARIT SUPERCUT Scissors are further warranted for a period of one year under normal use. Should any resharpening become necessary during this warranty period, JARIT will provide this service without charge. A nominal charge will be made for sharpening after expiration of this warranty. JARIT SUPERCUT Scissors will be date-stamped for control.

The autoclavable feature of the Autoclavable Laparoscope is covered under a special one (1) year limited warranty.

This Guarantee/Warranty shall be void in the event any JARIT instrument is used for purposes other than as originally intended, is not maintained or cleaned properly, is damaged as a result of misuse or accident, or is repaired or altered by unauthorized persons.

The above is a limited warranty, and it is the only warranty made by JARIT. JARIT makes no other warranty, express or implied, including any warranty of merchantability and fitness for a particular purpose, as well as any express or implied warranty to patients. JARIT shall have no liability for consequential, exemplary or incidental damages even if it is aware of the possibility of such damages. No warranty or guarantee may be created by any act or statement nor may this warranty be modified in any way, except as a result of a writing signed by an officer of JARIT. These limitations on the creation or modification of this warranty may not be waived or modified orally or by any conduct. The stated express warranty is in lieu of all liabilities or obligations of JARIT arising out of, or in connection with, the delivery, use or performance of any JARIT instrument. JARIT neither assumes nor authorizes any representative or other person to assume for it any other liability in connection with JARIT'S products.

The following trademarks have been registered with the United States Department of Commerce, Patent and Trademark Office, in the name of J. Jamner Surgical Instruments, Inc.:

CARB-BITE®

CARB-EDGE®

CARDIO-GRIP®

CIMS®

JARIT®

JARIT ARTICULATOR®

JARIT DETACH®

JARIT ROTATOR®

JARIT STARDUST®

JARIT SUPERCUT®

P.E.E.R®

PETIT-POINT®

ROTO-CAM®

ROTO-LOK®

STAR 2000®

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INSTRUMENT CARE AND HANDLING

Every hospital owns many thousands of dollars worth of surgical instruments. The care and maintenance that these instruments receive is critical to their performance during surgery and to the cost containment efforts of the hospital. With consistent and proper technique during the use, care, and handling of these surgical instruments, the hospital can expect several years of use from its investment in these quality products.

MANUFACTURE

Metallurgical research has enabled instrument makers to produce accurate, long-lasting surgical instruments. The steel used in most O.R. instruments is a 400 series alloy which has several useful properties. It can be brought to a very sharp cutting edge and will hold this edge through continuous use. In addition, the high tensile strength enables it to maintain precisely set jaw approximations. The metal is often referred to as stainless because of its corrosion resistance qualities. A chromium content ranging from 11.5% to 18% gives the steel some of its stainless characteristics. During manufacturing, a surface layer of chromium oxide begins to develop on the instrument and provides the instrument with corrosion resistance properties. Through routine hospital use and exposure to the air this oxidation process continues, effectively maintaining and even building up a barrier to most stains and corrosive elements.

GENERAL USE

All JARIT instruments are carefully inspected before shipment. Because damage may occur during transit, the instruments should be thoroughly inspected upon receipt and prior to use.

Indications for Use: For use by, or as directed by, a surgeon. Instruments should be used only for the purpose for which they are designed. The proper surgical technique for the use of instruments is the responsibility of the surgeon.

Handling and Operating Instruments: JARIT instruments should be handled and operated by personnel completely familiar with their use, assembly and disassembly. Before a new instrument is used and prior to each surgical procedure the instrument must be decontaminated, lubricated and sterilized as described below. Handle the instrument with care. The instrument must be inspected to assure proper functioning prior to each use with particular attention paid to the condition of all moving parts, tips, box locks, ratchets and cutting edges. Each instrument with a screw must be inspected before and after use to ensure that the screws do not move when operating the instrument. Screws can loosen and back out of an instrument as a result of normal operation and/or the vibration during ultrasonic cleaning. Failure to make a complete inspection to assure the proper operation and function of the instrument may result in unsatisfactory performance, perhaps because a part is missing. Do not use if the instrument does not appear to be functioning properly. Use of an instrument for a task other than that for which it is intended could result in a damaged or broken instrument, or one which provides an unsatisfactory performance. In order to insure JARIT warranties and guarantees, instruments in need of repair should be sent to JARIT.

Precautions: For electrosurgical instruments, use the least amount of power appropriate for the application. For electrosurgical cables, disconnect from the generator or instrument by grasping the connector only. Do not pull the cable by the cord. Do not use instrument or cable if insulation is not fully intact.

As with any decontamination procedure, personnel should follow accepted guidelines for hand washing, the use of protective attire, etc. as recommended by A.A.M.I. Standards and Recommended Practice., “Safe Handling and Biological Decontamination of Medical Devices in Health Care Facilities and in Non-Clinical Settings”, ANSI/AAMI ST35:2003.

INSTRUMENTS

A. MANUAL DECONTAMINATION: *Decontamination is a two step process. First step - thorough cleaning. Second step - sterilization or disinfection.*

PRECLEANING: Remove gross debris from surgical instruments with a lap sponge and sterile water during the procedure to prevent drying on of blood and bodily fluids, etc.

CLEANING: To prevent the formation of biofilm, cleaning should occur as soon as possible after instrumentation is used. Biofilm is an accumulation of a biomass of bacteria and extracellular material that tightly adheres itself to the surface of the instruments. It cannot be easily removed, and protects microorganisms from being easily removed by ordinary cleaning/decontamination methods used in hospitals. It is particularly problematic in lumened medical devices.

Step 1. Maintain moisture: Immediately after the surgical procedure, place the instruments in an instrument tray/container and cover with a towel moistened with sterile distilled water. Foam, spray or gel products, specifically intended for use with surgical instruments, are available to keep the soil moist. Transport tray of soiled instruments in an impervious plastic bag or container to the decontamination environment (keep the outside of the containment clean).

Step 2. Enzymatic Soak: Immerse fully opened and/or disassembled instruments in an enzymatic solution, specific for use with surgical instruments. Prepare the solution and use per enzyme manufacturer's recommendations, paying special attention to instructions for correct dilution, temperature and soak time. Flush air from lumens and fill them with enzymatic solution for full contact with this inner surface during the soak time.

Step 3. Rinse: Remove from enzymatic soak after the time period recommended by the enzymatic manufacturer and rinse thoroughly with tap water. Flush lumens until rinse water runs clear.

Step 4. Clean Instruments: Choose a cleaning solution appropriate for surgical instruments, and follow the manufacturer's instructions for use. The ideal cleaning agent is nonabrasive, low-foaming and free-rinsing. Using a small clean hand-held brush, remove soil from all surfaces of the instrument, while fully immersed in the solution. Remove the soil from the ratchets, jaws, tips, box locks, and/or hinge mechanism. Clean the shank or shaft of the instrument by wiping with a soft cloth such as a disposable lap sponge. Use a clean soft bristled brush to clean instruments with an accessible channel. Vigorously flush channels with the cleaning solution.

Step 5. Rinse: Thoroughly rinse instruments by immersing in tap water and wiping with a clean, soft cloth. Flush lumens until water runs clear.

Step 6. Ultrasonic Cleaning and Rinsing: Follow the recommendations of the ultrasonic manufacturer regarding cycle times, detergents, proper placement of the instrument tray, and conditioning (“degassing”) of the cleaning solution, etc. Use an ultrasonic cleaner to remove soil from hard to reach surfaces such as grooves, crevices, lumens, instruments with moving parts, etc., after gross soil has been removed by previous cleaning process. Open or disassemble instruments as appropriate. Place instruments in a mesh bottom stainless steel instrument tray. Place the tray into the ultrasonic cleaner. Flush air out of lumens and fill them with the ultrasonic cleaning solution (under the solution level in the chamber) for effective removal of soil from that inner surface, by the ultrasonic activity. After ultrasonic cleaning and rinsing, check screws on instruments because the vibration from the ultrasonic cleaning may cause them to loosen or fall out.

Step 7. FINAL RINSE should be with “treated water”. *Softened or deionized water should be used for the final rinse to better remove detergents etc. Softening water removes calcium and magnesium ions that cause water to be hard. Iron ions may also be removed by this treatment. Deionization removes ionized salts and particles from the water. Excessively hard water can spot or stain instruments and excessive chlorine in water can cause pitting of the instrument.*



DECONTAMINATION AND STERILIZATION PROCEDURES

Step 8. Decontaminate Clean Instruments: Once instruments have been cleaned they must be rendered safe for handling, inspection and assembly. They may be steam sterilized without a wrapper or disinfected following the instructions from the instrument, sterilizer and disinfectant manufacturers.

Step 9. Visual Inspection and Instrument Set Assembly: Visually inspect the instrument for cleanliness and to be sure all parts are in proper working order, as the set is assembled.

Step 10. Lubricate: The use of an instrument lubricant, that is compatible with the method of sterilization to be used, is recommended before instruments are sterilized. Be certain that the instrument lubricant is diluted and maintained properly, for dipping or spraying on, according to the manufacturer's instructions. Lubricants that are too concentrated or too heavily applied will result in slippery instruments that will also be mistaken as wet after sterilization. Proper application of lubricants to clean joints will keep them moving freely and aid in protecting the surface from mineral deposits. Note that ultrasonic cleaners remove all lubrication; therefore this maintenance procedure should be done routinely after ultrasonic cleaning and before sterilization.

Step 11. Prepare instrument sets for sterilization using a wrapper, pouch or rigid sterilization container that is appropriate for the method of sterilization to be used.

STERILIZATION

After following the above cleaning method, JARIT reusable instruments are ready for sterilization. Independent laboratory testing, conducted under F.D.A. Good Laboratory Practice (G.L.P.), has validated steam sterilization as an effective sterilization process for JARIT reusable instruments. The unwrapped instruments were validated to be sterile at a 3 minute, 270°F gravity cycle and a 4 minute, 270°F pre-vacuum cycle. As recommended by the AAMI Standards and Recommended Practices, Volume 1, 1992, the sterilizer manufacturer's written instructions for cycle parameters should be followed.

B. MECHANICAL DECONTAMINATION: JARIT's general surgical instrumentation may be processed in a washer sterilizer or washer decontaminator/disinfector. Some of these processes include an enzyme application phase and a lubrication phase

that is designed into the cycle. Check with a JARIT Technical Service representative at 1-800-431-1123 for questions regarding processing delicate, complex and/or multipart instruments by this method.

C. TERMINAL STERILIZATION: After following the decontamination recommendations, JARIT reusable instruments are ready for sterilization. Independent laboratory testing, conducted according to the F.D.A (21 CFR PART 58) and Good Laboratory Practice Regulations (G.L.P.), has validated steam sterilization as an effective process for JARIT reusable instruments.

The unwrapped instruments were validated to be sterile using a 3 minute, 270°F (132°C) gravity cycle, and a 4 minute, 270°F (132°) pre-vacuum cycle. See also, AAMI Standards and Recommended Practices, "Steam Sterilization and Sterility Assurance in Health Care Facilities", ANSI/AAMI ST46:2002; "Flash Sterilization - Steam Sterilization of Patient Care Items for Immediate Use, ANSI/AAMI ST37:3ed. AAMI standards recommend that the sterilizer manufacturer's written instructions for cycle parameters should also be followed.

Steam sterilization of lumened instruments requires that they be flushed with sterile water just prior to wrapping and sterilization. The water generates steam within the lumen to move air out. Air is the greatest enemy to steam sterilization, preventing steam contact if not eliminated.

Medical device manufacturer's exposure times to sterilization temperature may need to be longer than the minimum indicated by the sterilizer manufacturer but must never be shorter.

For additional information and inservicing assistance regarding instrument care and handling, contact your local JARIT representative, or call JARIT Technical Service Department at 1-800-431-1123.

Each user shall consult individual national infection control/prevention protocols for specific guidance regarding processing medical devices suspected of exposure to CJD.



DECONTAMINATION AND STERILIZATION PROCEDURES

As with any cleaning procedure, personnel should follow accepted guidelines for hand washing, attire, masking, etc. as those recommended by A.A.M.I. Standards and Recommended Practices, “Good Hospital Practice: Handling and Biological Decontamination for Reusable Medical Devices (American National Standard)”.

RIGID ENDOSCOPES

A. MANUAL DECONTAMINATION: Decontamination is a two step process. First step - thorough cleaning. Second step - sterilization or disinfection.

PRECLEANING: When the scope exits the body, remove gross debris using a surgical sponge dampened with sterile water, so that it does not dry on the device, which makes it harder to remove later.

CLEANING

Step 1. Maintain moisture: Place the scopes in a tray/container and cover with a surgical towel moistened with sterile distilled water. Transport tray with the soiled endoscope in an impervious plastic bag or container to the decontamination environment (keep the outside of the containment clean).

Step 2. Enzymatic Soak: with endoscopes. Prepare the solution and use per enzyme manufacturer's recommendations.

Step 3. Rinse: Remove from enzymatic soak after the time period recommended by the enzymatic manufacturer and copiously rinse with tap water.

Step 4. Clean Scopes: Use a small clean soft-bristled brush, to clean the optical portions of the scope while immersed in a neutral pH cleaning solution. Clean the shaft of the scope by wiping with a soft cloth. Clean the distal window, eyepiece window and fiber end of the light post with a cotton tip applicator (or soft cloth) moistened with cleaning solution. Never use sharp instruments to remove soil.

DO NOT place in ultrasonic cleaner or washer-sterilizer or other type of washer sterilizer or washer decontaminator/disinfectant.

Step 5. Rinse: Thoroughly rinse the scope by immersing in clean tap water and wiping with a clean, soft cloth. Be certain the distal window, eyepiece window and fiber end of the light post are rinsed well so that visualization is clear.

Step 6. FINAL RINSE should be with “treated water”. Softened or deionized water should be used for the final rinse to better remove detergents etc. Softening water removes calcium and magnesium ions that cause water to be hard. Iron ions may also be removed. Deionization removes ionized salts and particles from the water. Excessively hard water can spot or stain instruments and excessive chlorine in water can cause pitting of the instrument.

Step 7. Visual Inspection: Visually inspect the scope for cleanliness. Inspect the lens for visual clarity. Check the image quality by holding the scope up to the light. Look through the lens to see if it is clear, and for any distortions, defects, residue or fingerprints. Inspect the entire scope for rough surfaces, sharp edges or other signs of damage that require repair before use.

Step 8. Dry: Scopes must be thoroughly dried with a soft cloth.

NON-AUTOCLAVABLE SCOPE STERILIZATION

DO NOT steam sterilize the non-autoclavable scope.

After following the above 8-step cleaning method, JARIT non-autoclavable scopes are ready for Ethylene Oxide (EO) sterilization or high level disinfection.

The endoscope must be thoroughly dry before EO sterilization to avoid the formation of a harmful byproduct (ethylene glycol) that may not be removed by aeration. The pressure should not exceed 22 psi and the temperature should not exceed 140°F (60°C). See also, AAMI Standards and Recommended Practices, “Ethylene Oxide Sterilization in Health Care Facilities, ANSI/AAMI ST41:1999. AAMI standards recommend that the sterilizer manufacturer's written instructions for cycle parameters should also be followed.

For high level disinfection, follow the procedures as recommended by the manufacturer of the cold disinfecting soak.

DO NOT allow the scope to exceed 30 consecutive minutes in any solution, including sterile water. Extended exposure to liquids can damage the endoscope.

AUTOCLAVABLE SCOPE STEAM STERILIZATION

After following the above 8-step cleaning method, JARIT autoclavable scopes are ready for steam sterilization. Independent laboratory testing, conducted according to the F.D.A. (21 CFR PART 58) and Good Laboratory Practice Regulations (G.L.P.), has validated steam sterilization as an effective sterilization process for JARIT reusable autoclavable scopes. The pressure should not exceed 30 psi and the temperature should not exceed 273°F (134°C) for a maximum of 5 minutes and 250°F (121°C) for a maximum of 20 minutes. The wrapped scopes were validated to be sterile at a 20 minute, 250°F (121°C) gravity cycle.

The unwrapped instruments were validated to be sterile using a 3 minute, 270°F (132°C) gravity cycle and a 4 minute, 270°F (132°C) pre-vacuum cycle.

See also, AAMI Standards and Recommended Practices, “Steam Sterilization and Sterility Assurance in Health Care Facilities”, ANSI/AAMI ST46:2002; “Flash Sterilization - Steam Sterilization of Patient Care Items for Immediate Use, ANSI/AAMI ST37:3ed. AAMI standards recommend that the sterilizer manufacturer's written instructions for cycle parameters should also be followed.

Medical Device manufacturer's exposure times to sterilization temperature may need to be longer than the minimum indicated by the sterilizer manufacturer but must never be shorter.

After sterilization, the scope must be allowed to cool at room temperature. DO NOT attempt to accelerate the normal cooling process to prevent damage to the endoscope.

For additional information and inservicing assistance regarding instrument care and handling, contact your local JARIT representative, or call JARIT Technical Service Department at 1-800-431-1123.

Designed and crafted to exacting specifications, instruments will perform for a reasonable number of years when the following steps are observed:

Proper Use: Instruments should be used during surgery exclusively for their intended purpose. Misusing instruments will lead to damage that is usually not repairable; for example, a hemostat that is used to clamp tubing can become misaligned and quickly break.

Protect Instruments:

- The use of neutral pH detergents is vital to the maintenance of surgical instruments. Contact with acidic or alkaline solution will remove the instruments' protective barrier of chromium oxide, often leading to corrosion, pitting and breakage.

- Certain compounds are highly corrosive to stainless steel and will cause serious damage despite the passivated protective surface.

- If instruments are inadvertently exposed to any of the following substances, they should be rinsed immediately with copious amounts of water.

Instruments should never be exposed to:

Aqua regia	Iodine
Ferric chloride	Sulfuric acid
Hydrochloric acid	

The following substances should be avoided whenever possible:

Aluminum chloride	Mercury chloride
Barium chloride	Potassium permanganate
Bichloride of mercury	Potassium thiocyanate
Calcium chloride	Saline
Carbolic acid	Sodium hypochlorite
Chlorinated lime	Stannous chloride
Dakin's solution	

- The use of an instrument lubricant, compatible with the sterilization method to be used, is an integral step in maintaining the long-life of the surgical instrument. Lubrication will prevent the friction of metal on metal and preserve the smooth function of the instrument thus avoiding corrosion by friction. Furthermore, routine use of lubricating agents, on thoroughly clean instruments, will prevent hinged and other movable parts from sticking. Lubrication will aid in protecting the entire instrument surface from mineral deposits.

- During manual cleaning, never use steel wool, wire brushes, scalpel blades or highly abrasive detergent cleansers to remove soil from surgical instruments. These will damage the instruments' protective surface and lead to corrosion.

- Any kind of corrosion will lead to rust on steel. Because rust particles can be transferred from one instrument to another, corroding instruments should be removed from service to prevent the formation of rust on other instruments.

- Instruments must be sterilized in the open position or disassembled as appropriate. Steam will only sterilize the surface it can directly touch.

- Every effort should be made to protect sharp cutting edges and fine working tips during all maintenance procedures. Avoid loading retractors and other heavy items on top of delicate and hollow instruments.

Cleaning:

- Before first use, all instruments must be thoroughly decontaminated prior to sterilization to remove any factory soil.

- It is important to rinse instruments that have been exposed to blood and saline solution before these substances dry. Blood and bodily fluids as well as saline solutions are highly corrosive. In addition, blood can produce a stain that is difficult to remove. Instruments should be wiped clean with a lap sponge moistened with sterile water routinely during a procedure. They should be kept moist immediately following use, either by placing them in an appropriate basin of sterile distilled water or covered with a moist towel. Instruments should not be transported in liquid.

- When cleaning instruments, it is important to use a detergent that is appropriate for surgical instruments. A neutral pH detergent, as near 7.0, as possible is preferred. You may find that depending on the type of soil, a detergent that is a little more or less acid or alkaline may be more appropriate. Distilled water is recommended because it is free of the many compounds which exist in ordinary tap water. These substances, alone, cause stains and when tap water is combined with some detergents it will form insoluble deposits on the instruments. Manual cleaning will be most effective with a solution of luke warm water and a neutral pH detergent. This should be followed by a two stage rinse. The first rinse removes detergent and soil. The final "treated water" rinse removes any residues and minerals from the surface of the instruments

- The box lock and hinge portion of an instrument must be thoroughly cleaned after each use. A build-up of soil, debris, lubricants, etc., in these areas, will make it difficult to use the instrument and eventually irreparably damage it. Manual cleaning should remove all visible residue. It is essential to keep the box locks and hinges open during any manual or automated cleaning process.

- Follow the manufacturer's specifications when using automatic washer-sterilizers or washer decontaminators/disinfectors. They usually require the use of a low foaming, free rinsing detergent with a neutral pH (7.0). A high-foaming detergent may clean effectively but will often leave residual deposits on the instruments and do harm to mechanical washers.

Automated washer sterilizers and washer decontaminator/disinfectors usually have adjustable wash and rinse times. Some washers enable the user to customize extra cycles to process heavily soiled surgical instruments more effectively.

Drying:

- Before instruments are wrapped for sterilization or storage, they must be thoroughly dry. If a set of instruments is wet when wrapped for sterilization it is likely to come out of the sterilizer wet. "Wet Packs" are not suitable for use after sterilization because they may be easily contaminated when handled. In addition, remaining moisture, particularly in box locks and hinges may result in corrosion that will weaken the instrument and lead to breakage during use.

- The Association for the Advancement of Medical Instrumentation (AAMI) and individual sterilizer manufacturers provide guidance for the proper preparation of surgical instrument trays for sterilization. Some sterilizer manufacturers can also provide information regarding wet pack problem solving. See also, *Sterilization for the Healthcare Facility*, 2nd Edition, Reichert, M.; Young, J., "Wet Pack Problem Solving", Lee, S. (Frederick, MD: Aspen, 1997).

Inspection: Inspection is a vital part of proper care and maintenance. Instruments in need of repair will not perform accurately in surgery and breakage is likely to occur. DO NOT USE damaged instruments. Worn ratchets, loose box locks and misaligned jaws can be repaired at a fraction of the cost of new instruments. Contact your local JARIT representative for information regarding a cost-effective instrument repair program.

Diagnosing Spots and Stains: It is common for instruments to become stained or spotted despite the best efforts of the manufacturers and the hospital staff. In nearly all cases these problems are the result of minerals deposited upon the surfaces of the instruments, as well as insufficient cleaning. Adhering to proper technique during cleaning and sterilizing procedures will prevent most staining occurrences. However, they will sometimes arise very suddenly and will not disappear on their own. The following identifies the various instrument-related problems hospitals may encounter.

Brown Stains: Detergents containing polyphosphates may dissolve copper elements in the sterilizer. This results in copper being deposited on the instruments by an electrolytic reaction. The hospital may try a different detergent or check the quantities used. Usually a dull blue or brown stain is simply a build-up of oxidation on the surface. This film is harmless and will actually protect the instrument from serious corrosion.

Blue Stains: Blue stains are usually the result of cold sterilization techniques. It is important to prepare the solution according to exact proportions and to change the solution when recommended. Serious corrosion may occur if the solution is used beyond the manufacturer's specified time limit. The use of distilled water and a rust inhibitor in the solution will help retard discoloration.

Black Stains: Black stains may be the result of contact with ammonia. Many cleaning compounds contain ammonia and it will remain on the instruments unless they are well rinsed.

Light or Dark Spots: Spots are often the result of condensation pooling and then drying on flat and concave instrument surfaces. The mineral content of the water remains on the instrument. Using "treated water" as the FINAL rinse will help to remove the minerals found in water that can cause these residual spots. It is also important to follow the sterilizer manufacturer's instructions for preparing instrument sets for sterilization. Standing instruments that have flat and concave surfaces "on edge" will enable the condensate to drain off and more readily dry, usually without spotting. An additional cause of spotting can be traced to the instrument wraps. During laundering procedures it is vital that detergents are thoroughly rinsed out, and that the final rinse is prepared so that the wraps have a pH between 6.8 and 7.0. In addition, healthcare professionals should check the cleanliness of the sterilizer chamber. Steam can lift soil and poorly rinsed chamber cleaning detergents from the chamber walls and deposit them onto instruments and wrappers.

Rust Deposits: It is very unlikely for surgical grade steel to rust. What appears to be rust is often residual organic matter in box locks or mineral deposits which have been baked onto the surface of the instrument. In localities where the water has a high iron content, for example, an iron deposit will result in a metallic film on the instrument. This is may be prevented with the use of "treated water" for the FINAL rinse during cleaning procedures.

NOTE: The JARIT guarantee will not be applicable if the instruments are continually exposed to acidic solutions with a pH of 5 or lower, or alkaline solutions with a pH of 9 or higher.

The most effective method of dealing with instrument problems is to prevent them from occurring. The use of "treated water", careful preliminary cleaning, using neutralized pH solutions, following manufacturers' instructions, and visual inspection, will help to keep instruments performing accurately and cosmetically free of troublesome stains. It is important to act quickly should a problem arise. Delay will compound the problem and irreparable harm may result.

For additional information and inservicing assistance regarding instrument care and handling, contact your local JARIT representative, or call JARIT Technical Service Department at 1-800-431-1123.

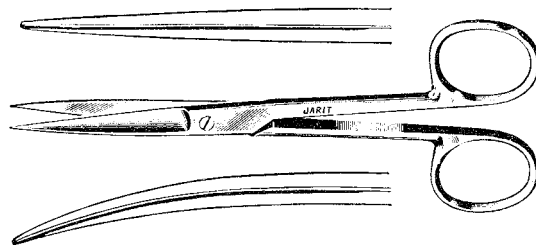
JARIT
SURGICAL
INSTRUMENTS

OPERATING Scissors,
straight, sharp-sharp

Mirror	Matte	
100-105		4½" (11.4cm)
100-109		5" (12.7cm)
100-110	099-110	5½" (14cm)
100-111		6½" (16.5cm)

OPERATING Scissors,
curved, sharp-sharp

Mirror		
100-115		4½" (11.4cm)
100-117		5" (12.7cm)
100-120		5½" (14cm)
100-122		6½" (16.5cm)

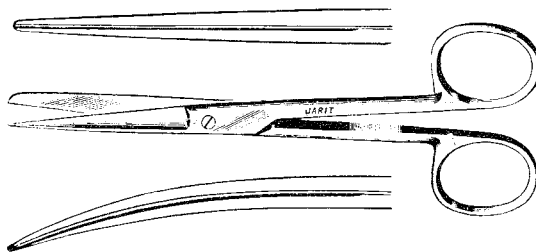


OPERATING Scissors,
straight, sharp-blunt

Mirror	Matte	
100-125		4½" (11.4cm)
100-127		5" (12.7cm)
100-130	099-130	5½" (14cm)
100-132		6½" (16.5cm)

OPERATING Scissors,
curved, sharp-blunt

Mirror		
100-116		4½" (11.4cm)
100-134		5" (12.7cm)
100-135		5½" (14cm)
100-137		6½" (16.5cm)

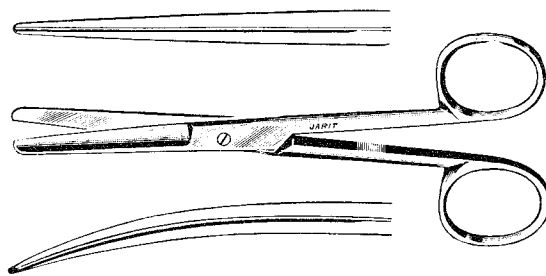


OPERATING Scissors,
straight, blunt-blunt

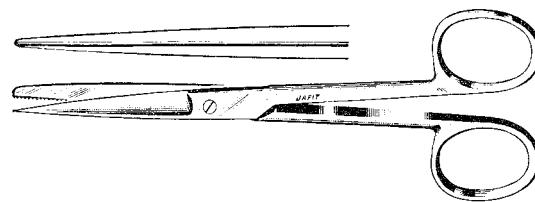
- 100-126** 4½" (11.4cm)
- 100-129** 5" (12.7cm)
- 100-131** 5½" (14cm)
- 100-138** 6½" (16.5cm)

OPERATING Scissors,
curved, blunt-blunt

- 100-128** 4½" (11.4cm)
- 100-133** 5" (12.7cm)
- 100-136** 5½" (14cm)
- 100-139** 6½" (16.5cm)

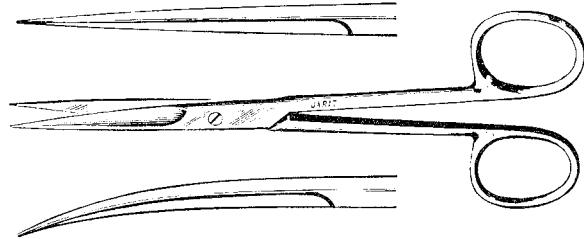


- 100-140** **OPERATING** Scissors,
5½" (14cm), straight,
sharp-blunt, one blade serrated



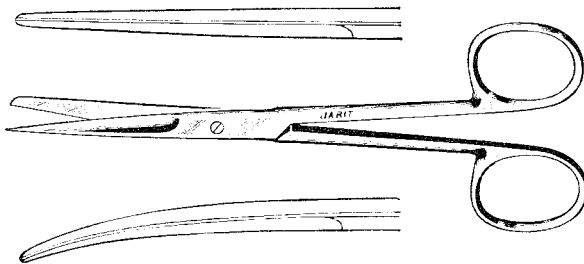
DEAVER Scissors,
sharp-sharp

- 100-175** 5½" (14cm), straight
- 100-180** 5½" (14cm), curved

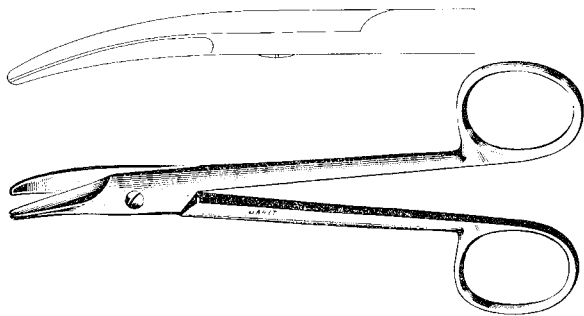


DEAVER Scissors,
sharp-blunt

- 100-185** 5½" (14cm), straight
- 100-190** 5½" (14cm), curved



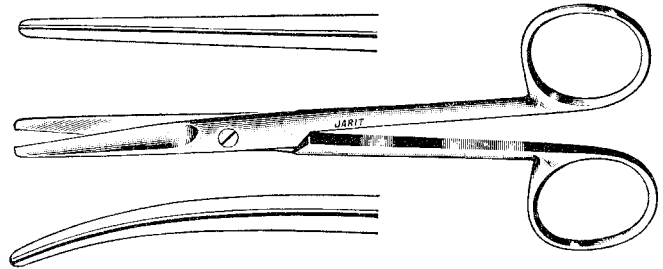
- 100-195** **SISTRUNK** Scissors,
5½" (13cm), slightly curved



MAYO Scissors,
beveled blades

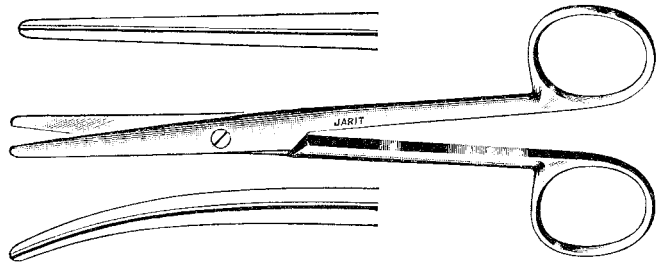
Mirror Matte

- 100-200 099-200** 5½" (14cm), straight
- 100-202 099-202** 5½" (14cm), curved
- 100-210 099-210** 6¾" (17.1cm), straight
- 100-212 099-212** 6¾" (17.1cm), curved



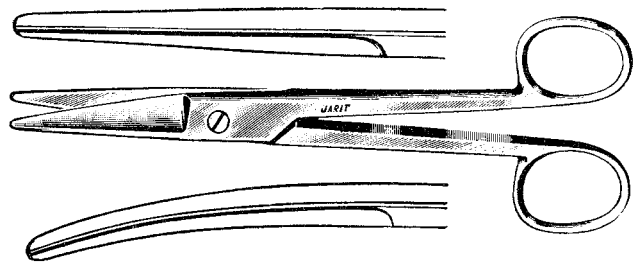
MAYO Scissors,
round blades

- 100-215** 5½" (14cm), straight
- 100-217** 5½" (14cm), curved
- 100-220** 6¾" (17.1cm), straight
- 100-222** 6¾" (17.1cm), curved



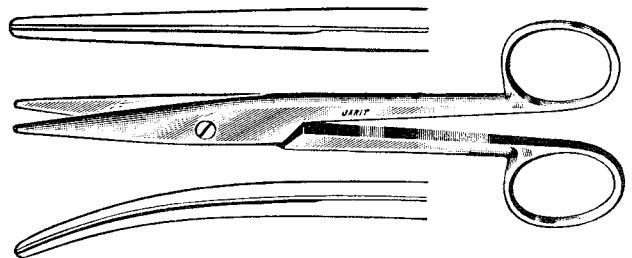
MAYO-NOBLE Dissecting Scissors,
beveled blades, 6½" (16.5cm)

- 100-224** Straight
- 100-225** Curved



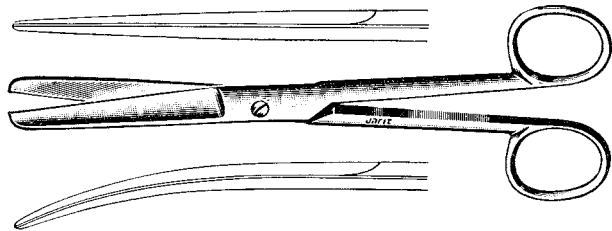
MAYO-NOBLE Dissecting Scissors,
round blades, 6½" (16.5cm)

- 100-226** Straight
- 100-227** Curved

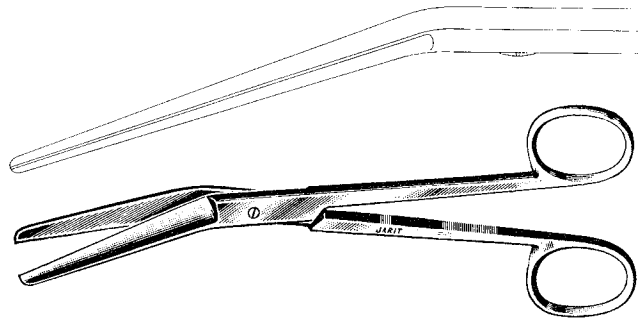


DOYEN Abdominal Scissors,
7" (17.8cm)

- 100-230 Straight
- 100-231 Curved

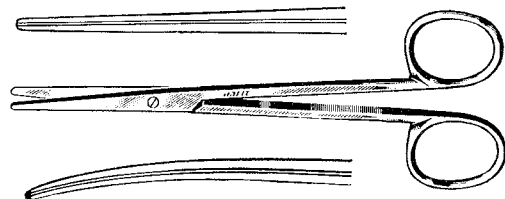


100-233 FERGUSON Abdominal Scissors,
7" (17.8cm), angled on flat



METZENBAUM (LAHEY) Scissors,
5 3/4" (14.6cm)

- Mirror Matte
- 100-250 099-250 Straight
- 100-251 099-251 Curved



METZENBAUM Scissors,
straight

Mirror

100-260 7" (17.8cm)

100-265 8" (20.3cm)

METZENBAUM Scissors,
curved

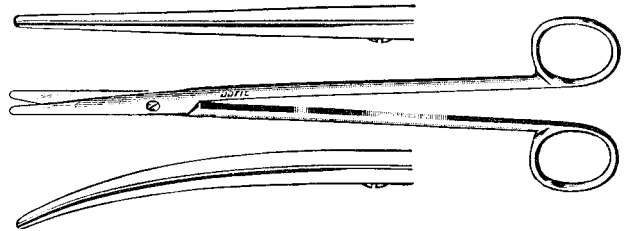
Mirror

Matte

100-261 7" (17.8cm), slender, delicate

100-262 **099-262** 7" (17.8cm)

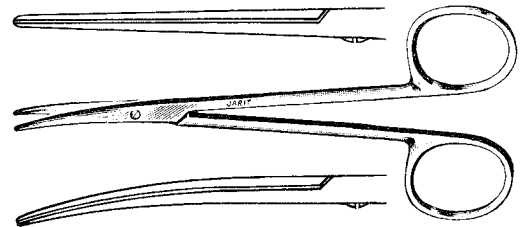
100-266 8" (20.3cm)



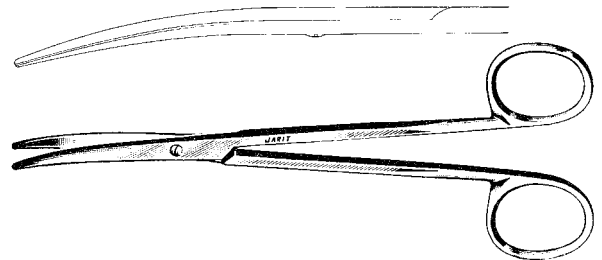
JARIT Scissors,
5¼" (13.5cm), delicate, dissecting tips

100-269 Straight

100-270 Curved

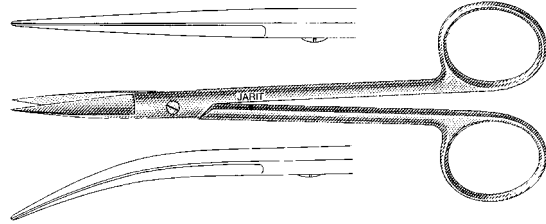


100-272 **METZENBAUM (LAHEY)** Scissors,
5¼" (14.6cm), curved, delicate



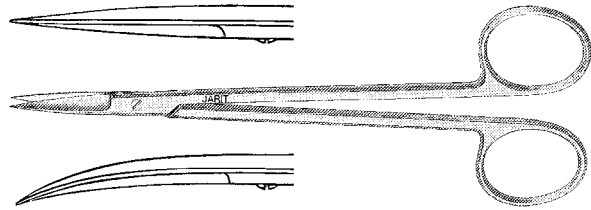
JOSEPH Scissors

- 100-278** 5½" (14.6cm), straight
- 100-279** 5½" (14.6cm), curved



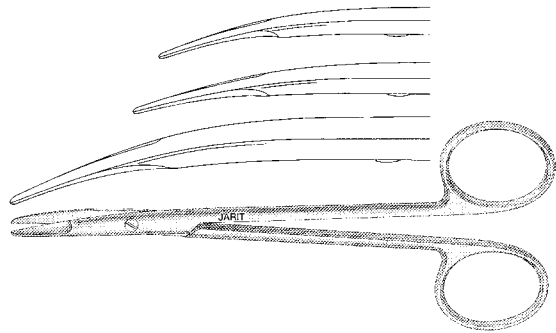
KELLY Fistula Scissors

- 100-280** 6¼" (16cm), straight
- 100-281** 6¼" (16cm), curved



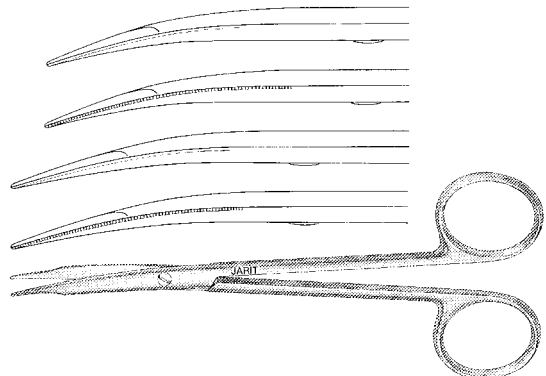
JARIT Flat Tip Scissors, curved

- 100-290** 5" (12.7cm)
- 100-291** 7" (17.8cm)
- 100-292** 9" (22.8cm)



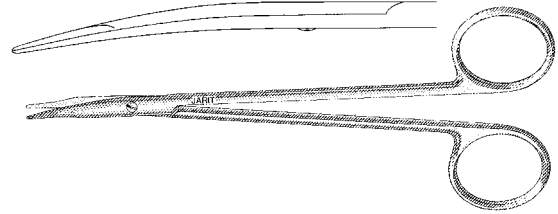
REYNOLDS Scissors, narrow tip, curved

- 100-295** 5½" (14cm), plain edge
- 100-296** 5½" (14cm), serrated edge
- 100-297** 7" (17.8cm), plain edge
- 100-298** 7" (17.8cm), serrated edge



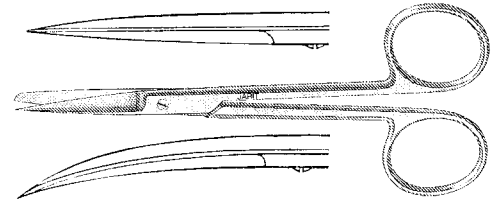
JAMISON-METZENBAUM Scissors,
narrow tip, curved

- 100-300** 6" (15.2cm)
- 100-302** 7" (17.8cm)
- 100-304** 8" (20.3cm)
- 100-306** 9" (22.8cm)



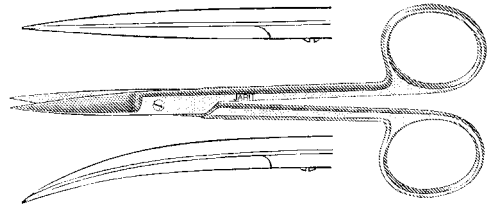
PLASTIC SURGERY Scissors,
sharp-blunt

- 100-320** 4 1/4" (12.1cm), straight
- 100-322** 4 1/4" (12.1cm), curved



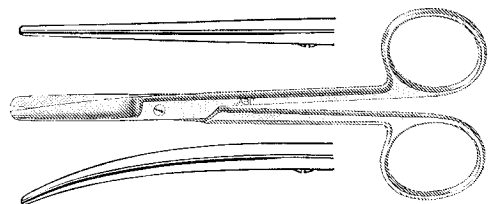
PLASTIC SURGERY Scissors,
sharp-sharp

- 100-325** 4 1/4" (12.1cm), straight
- 100-327** 4 1/4" (12.1cm), curved



PLASTIC SURGERY Scissors,
blunt-blunt

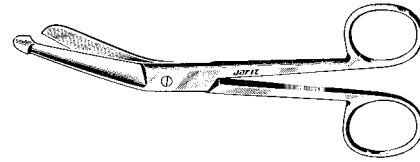
- 100-330** 4 1/4" (12.1cm), straight
- 100-332** 4 1/4" (12.1cm), curved



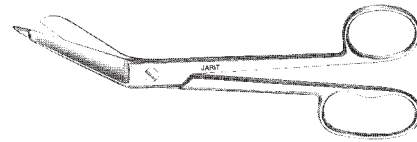
JARIT BANDAGE SCISSORS

LISTER Bandage Scissors

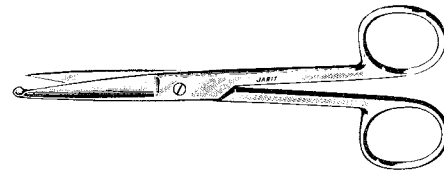
Mirror	Matte	
100-502		3½" (8.9cm)
100-512		4½" (11.4cm)
100-522	099-522	5½" (14cm)
100-526	099-526	7¼" (18.4cm)
100-528	099-528	8" (20.3cm)



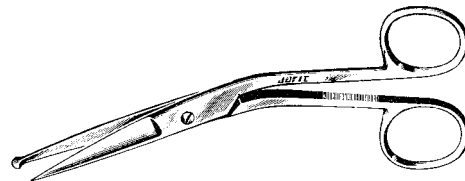
100-527 **LISTER** Bandage Scissors, one large ring
7½" (19.1cm)



100-530 **KNOWLES** Finger Bandage Scissors,
5½" (14cm)



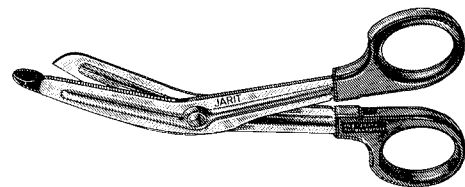
100-531 **KNOWLES** Finger Bandage Scissors,
5½" (14cm), side curved



100-532 One blade serrated

JARIT Utility Shears,
one serrated blade,
stainless steel with autoclavable plastic finger rings

100-539 5½" (14cm)
100-540 7" (17.8cm)



JARIT[®] CARB-EDGE SCISSORS

These superbly crafted instruments have solid inserts of a hard, tough alloy permanently welded to the scissors, and are vacuum hardened. This alloy, composed principally of tungsten, cobalt, chromium and carbon, is harder than stainless steel (61 to 65 Rockwell C). Cutting edges of JARIT CARB-EDGE Scissors stay sharp longer than those of ordinary scissors because of the high transfer rupture strength of the blade inserts.

The material is also highly resistant to corrosion, further prolonging its useful life.

JARIT CARB-EDGE Scissors are guaranteed to stay sharp for at least three years of normal usage. If sharpening should be required during the guarantee period, it will be done without charge. Finger rings are gold plated for easy identification.



JARIT CARB-EDGE SCISSORS

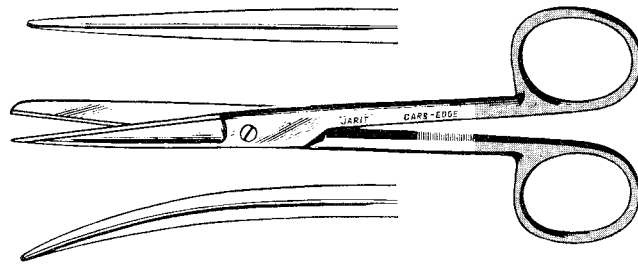
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OPERATING Scissors, 5½" (14cm)

- 101-110** Straight, sharp-sharp
- 101-112** Curved, sharp-sharp
- 101-130** Straight, sharp-blunt
- 101-132** Curved, sharp-blunt

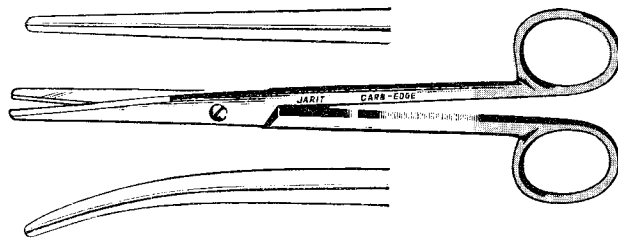


MAYO Scissors

Satin

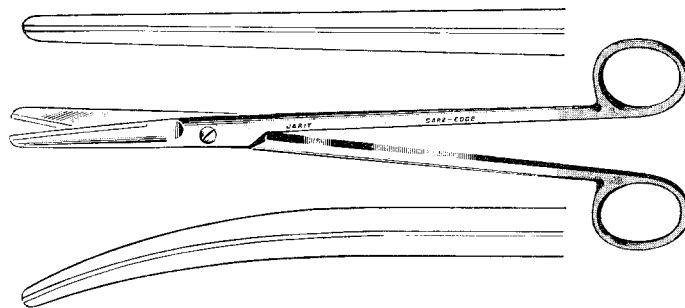
Matte

- 101-215** 5½" (14cm), straight
- 101-217** 5½" (14cm), curved
- 101-218** 6" (15.2cm), straight, slender, fine tip
- 101-219** 6" (15.2cm), curved, slender, fine tip
- 101-220** **103-220** 6¾" (17.1cm), straight
- 101-222** **103-222** 6¾" (17.1cm), curved



MAYO-HARRINGTON Scissors

- 101-225** 9" (22.8cm), straight
- 101-226** 9" (22.8cm), curved
- 101-230** 14" (35.6cm), straight
- 101-232** 14" (35.6cm), curved



JARIT CARB-EDGE SCISSORS

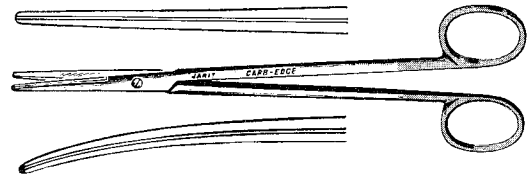
These superbly crafted instruments have solid inserts of a hard, tough alloy permanently welded to the scissors, and are vacuum hardened. This alloy, composed principally of tungsten, cobalt, chromium and carbon, is harder than stainless steel (61 to 65 Rockwell C). Cutting edges of JARIT CARB-EDGE Scissors stay sharp longer than those of ordinary scissors because of the high transfer rupture strength of the blade inserts.

The material is also highly resistant to corrosion, further prolonging its useful life.

JARIT CARB-EDGE Scissors are guaranteed to stay sharp for at least three years of normal usage. If sharpening should be required during the guarantee period, it will be done without charge. Finger rings are gold plated for easy identification.

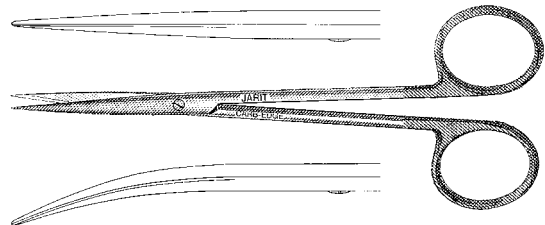
METZENBAUM (LAHEY) Scissors,
5 3/4" (14.6cm), delicate

Satin	Matte	
101-250	103-250	Straight
101-251	103-251	Curved

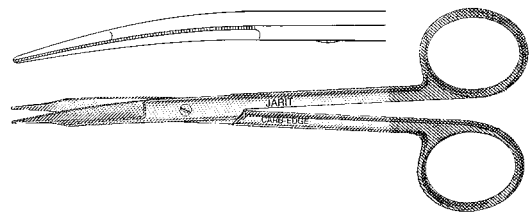


METZENBAUM (LAHEY) Scissors,
5 3/4" (14.6cm), delicate, sharp-sharp

101-252	Straight
101-253	Curved



101-255 PETIT-POINT REYNOLDS Scissors,
5" (12.7cm), curved, one blade serrated



JARIT CARB-EDGE SCISSORS

These superbly crafted instruments have solid inserts of a hard, tough alloy permanently welded to the scissors, and are vacuum hardened. This alloy, composed principally of tungsten, cobalt, chromium and carbon, is harder than stainless steel (61 to 65 Rockwell C). Cutting edges of JARIT CARB-EDGE Scissors stay sharp longer than those of ordinary scissors because of the high transfer rupture strength of the blade inserts.

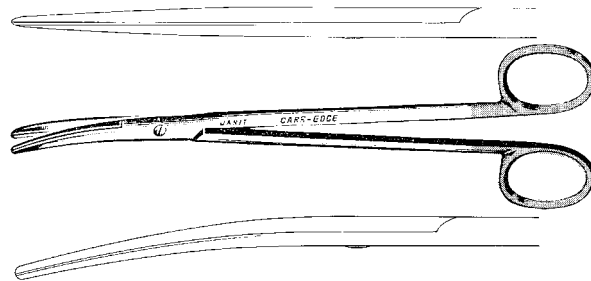
The material is also highly resistant to corrosion, further prolonging its useful life.

JARIT CARB-EDGE Scissors are guaranteed to stay sharp for at least three years of normal usage. If sharpening should be required during the guarantee period, it will be done without charge. Finger rings are gold plated for easy identification.

METZENBAUM Scissors

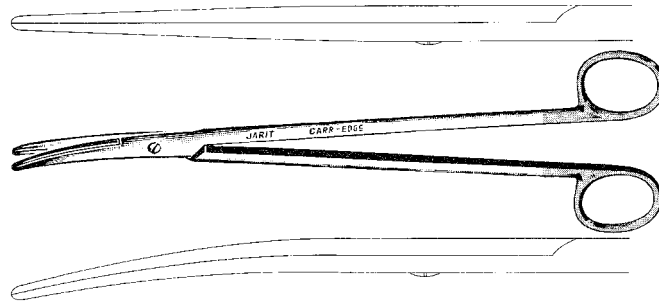
Satin Matte

101-258	103-258	7" (17.8cm), curved
101-260		7" (17.8cm), delicate, straight
101-261	103-261	7" (17.8cm), delicate, curved
101-265		8" (20.3cm), curved



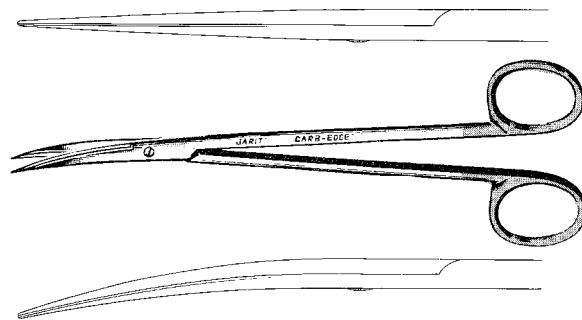
METZENBAUM (NELSON) Scissors

101-266	9" (22.8cm), straight
101-267	9" (22.8cm), curved
101-275	9" (22.8cm), straight, delicate
101-276	9" (22.8cm), curved, delicate
101-269	10" (25.4cm), curved
101-270	11" (28cm), curved
101-272	12" (30.5cm), curved
101-256	14" (35.6cm), curved



METZENBAUM Scissors, sharp-sharp

101-257	7" (17.8cm), straight
101-259	7" (17.8cm), delicate, curved
101-278	9" (22.8cm), straight
101-279	9" (22.8cm), curved



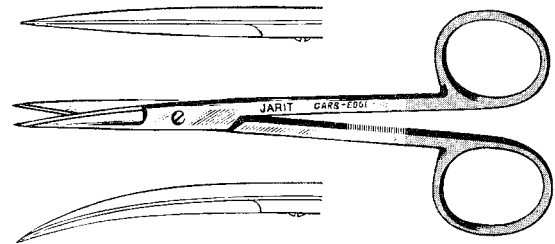
JARIT CARB-EDGE SCISSORS

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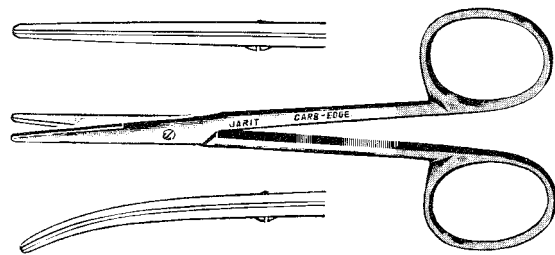
The material is also highly resistant to corrosion, further prolonging its useful life.

JARIT CARB-EDGE Scissors are guaranteed to stay sharp for at least three years of normal usage. If sharpening should be required during the guarantee period, it will be done without charge. Finger rings are gold plated for easy identification.

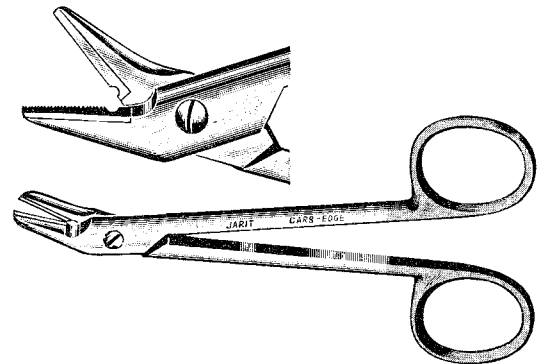
- IRIS** Scissors,
4½" (11.4cm)
101-300 Straight
101-301 Curved



- STRABISMUS** Scissors,
4½" (11.4cm)
101-310 Straight
101-311 Curved



- 101-350** **WIRE** Suture Scissors,
4¾" (12.1cm), angled, for cutting suture and
wire (26 gauge and smaller)

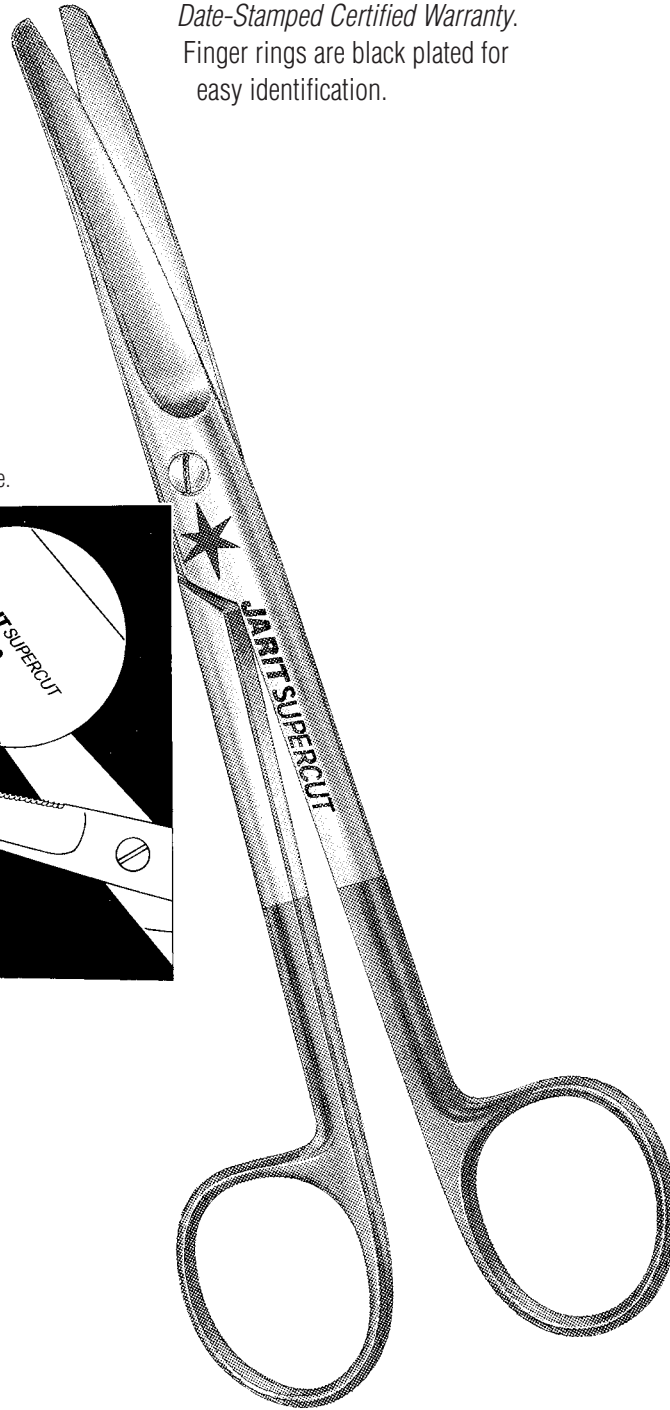
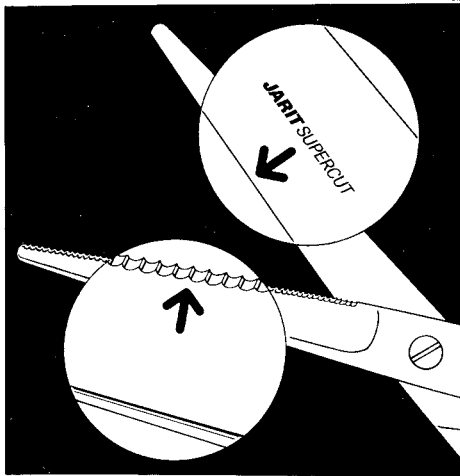


JARIT[®] SUPERCUT SCISSORS

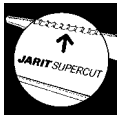
Developed by utilizing unique and innovative methods of grinding, sharpening and heat treating, JARIT SUPERCUT scissors have achieved a degree of sharpness never before seen on conventional surgical scissors. In the surgeon's hand, the "feel" of the cutting motion is so smooth it creates a totally new sensation of absolute control. Laboratory tests simulating

hundreds of surgical procedures, confirmed that JARIT SUPERCUT scissors retain their sharpness long after conventional scissors become dull. JARIT backs this claim with a *Date-Stamped Certified Warranty*. Finger rings are black plated for easy identification.

The JARIT SUPERCUT blade is razor sharp and glides effortlessly through tissue with a clean precise cut. The finely serrated lower blade helps prevent slippage.

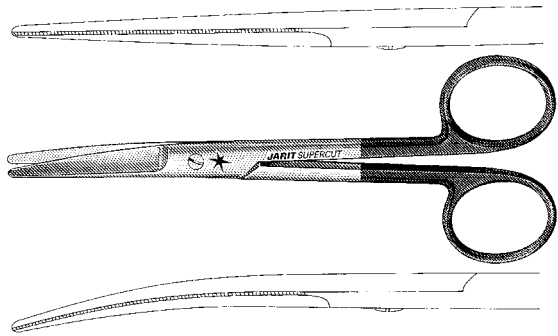


JARIT SUPERCUT SCISSORS - GENERAL SURGERY



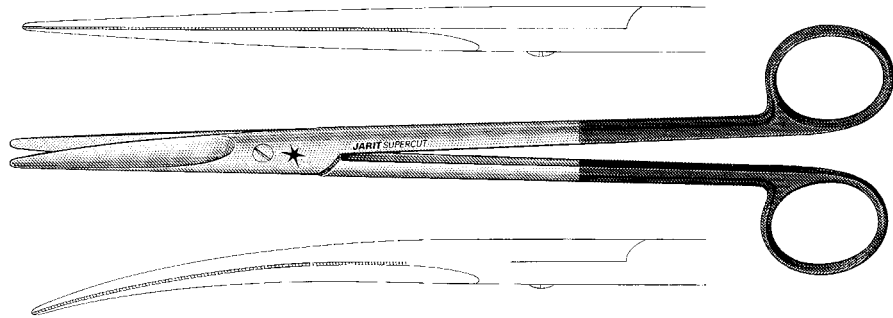
MAYO Scissors

- 102-100** 5½" (14cm), straight
- 102-102** 5½" (14cm), curved
- 102-110** 6¾" (17.1cm), straight
- 102-112** 6¾" (17.1cm), curved



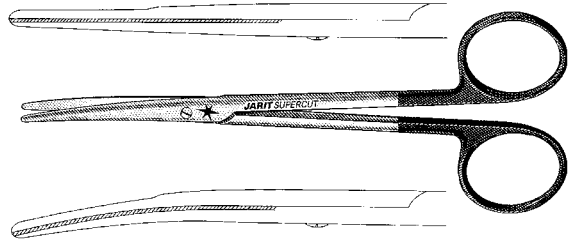
MAYO Scissors

- 102-115** 9" (22.8cm), straight
- 102-116** 9" (22.8cm), curved
- 102-118** 11" (28cm), curved
- 102-113** 10" (25.4cm), straight
- 102-114** 12" (30.5cm), straight



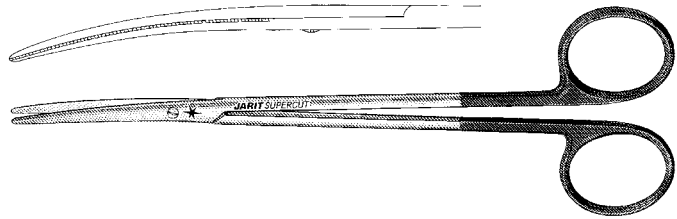
METZENBAUM (LAHEY) Scissors,
5¾" (14.6cm)

- 102-119** Straight
- 102-120** Curved



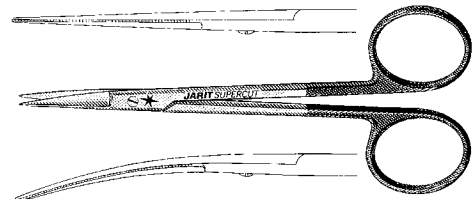
METZENBAUM Scissors

- 102-122** 7" (17.8cm), curved
- 102-125** 9" (22.8cm), curved
- 102-128** 11" (28cm), curved
- 102-127** 14" (35.6cm), curved
- 102-126** 10" (25.4cm), curved
- 102-129** 12" (30.5cm), curved

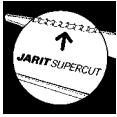


IRIS Scissors,
4½" (11.4cm)

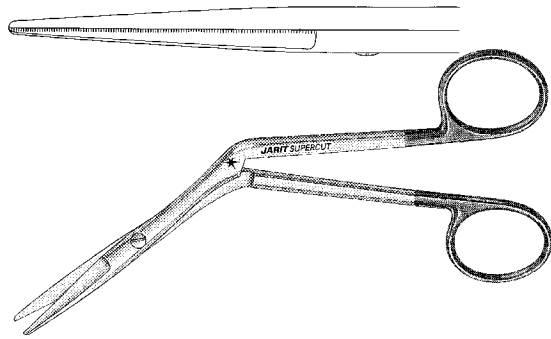
- 102-130** Straight
- 102-131** Curved



JARIT SUPERCUT SCISSORS - PLASTIC AND RECONSTRUCTIVE

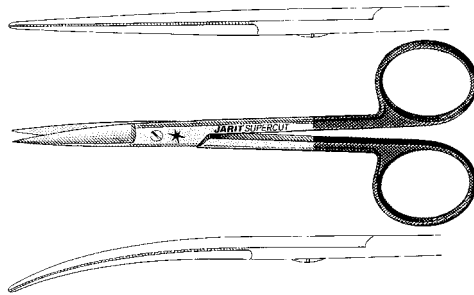


102-180 KNIGHT Nasal Scissors,
6 3/4" (17.1cm)



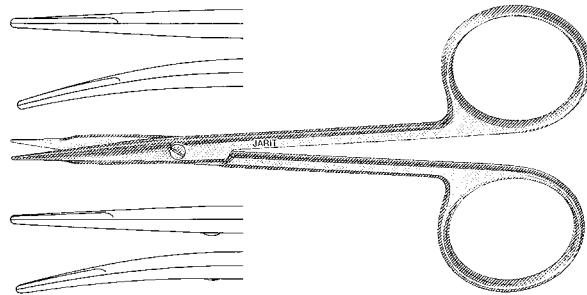
PLASTIC SURGERY Scissors,
4 1/2" (12.1cm)

- 102-200** Straight
- 102-202** Curved

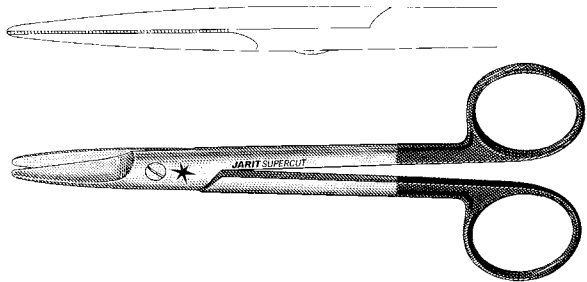


STEVENS Tenotomy Scissors,
blunt tips

- | | | |
|----------------|----------------|---|
| Standard | Supercut | |
| 360-138 | 102-138 | 4 1/2" (11.4cm), 13mm blades,
straight, slender pattern |
| 360-139 | 102-139 | 4 1/2" (11.4cm), 13mm blades,
curved, slender pattern |
| 360-140 | 102-140 | 4 1/2" (10.5cm), 12mm blades,
straight, standard pattern |
| 360-141 | 102-141 | 4 1/2" (10.5cm), 12mm blades,
curved, standard pattern |

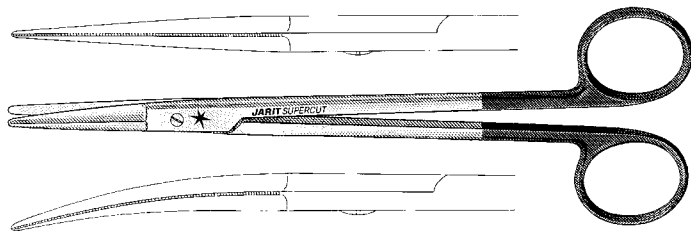


102-205 CASTANARES Face Lift Scissors,
6 1/4" (16cm), straight

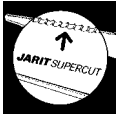


GORNEY Plastic Surgery Scissors,
7 1/4" (18.4cm)

- 102-210** Straight
- 102-211** Curved

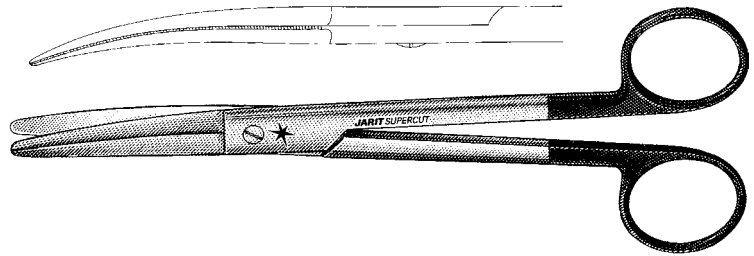


JARIT SUPERCUT SCISSORS - PLASTIC AND RECONSTRUCTIVE



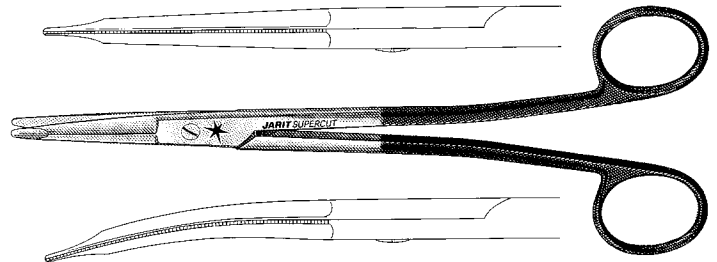
KAYE Face Lift Scissors,
beveled blades have semi-sharp
outer edges

- 102-215** 6" (15.2cm), curved
- 102-216** 7½" (19cm), curved



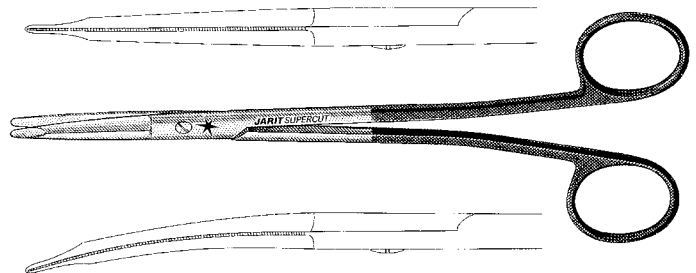
FREEMAN-GORNEY Face Lift Scissors,
7½" (19cm), beveled blades have semi-sharp
outer edges and flat, tapered tips; flared shanks
for greater comfort and control

- 102-220** Straight
- 102-221** Curved

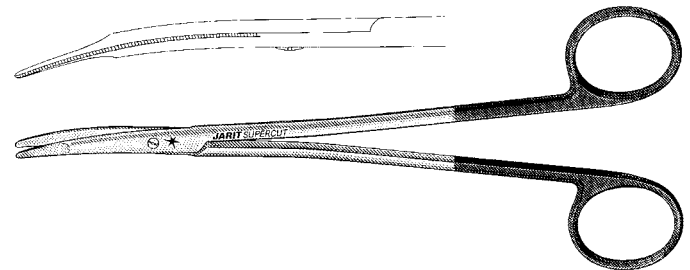


FREEMAN-KAYE Face Lift Scissors,
7" (17.8cm), beveled blades have semi-sharp
outer edges and flat, tapered tips; flared shanks
for greater comfort and control.

- 102-225** Straight
- 102-226** Curved

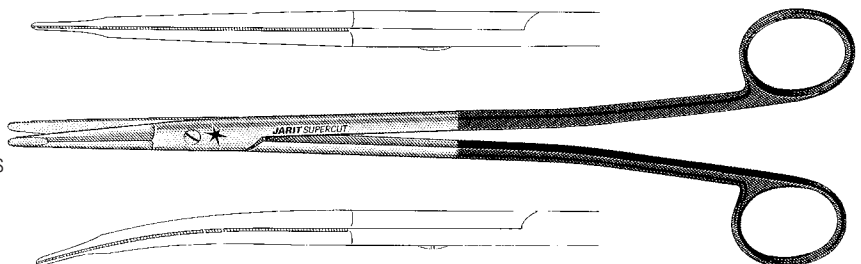


102-229 **FREEMAN** Rhytidectomy Scissors,
7" (17.8cm), curved with flat tips;
flared shanks for greater comfort and control.

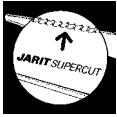


GORNEY Platysma Scissors,
9" (22.8cm), beveled blades
have semi-sharp outer edges
and flat, tapered tips; flared shanks
for greater comfort and control.

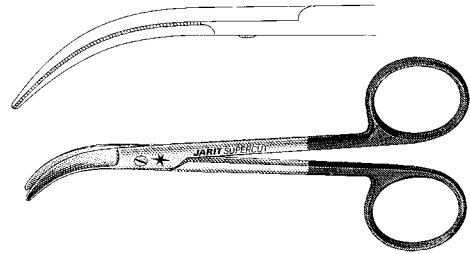
- 102-230** Straight
- 102-231** Curved



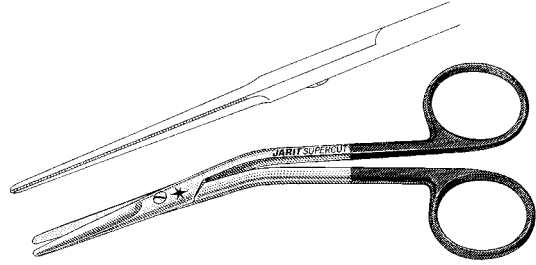
JARIT SUPERCUT SCISSORS - PLASTIC AND RECONSTRUCTIVE



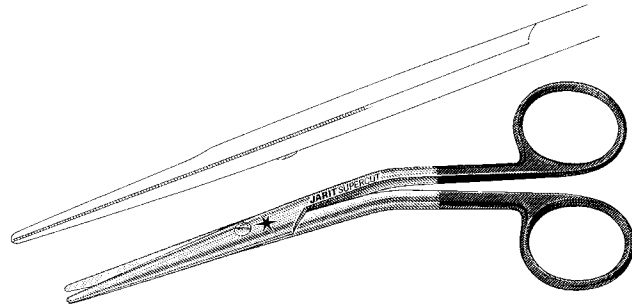
102-235 FOMON Lateral Scissors,
5" (12.7cm), full curved



102-236 FOMON Dorsal Scissors,
5 3/4" (14.6cm), angled on flat



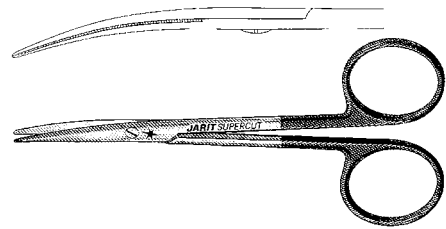
102-238 COTTLE Dorsal Scissors,
6 1/2" (16.5cm), angled on flat



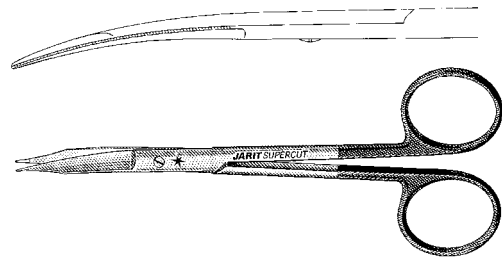
JARIT PLASTIC AND RECONSTRUCTIVE Scissors,
curved

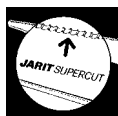
102-240 4 1/2" (11.4cm)

102-242 5 3/4" (14.6cm)



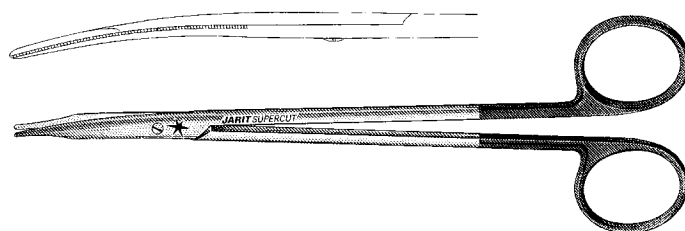
102-245 JARIT PETIT-POINT REYNOLDS Scissors,
5" (12.7cm), curved



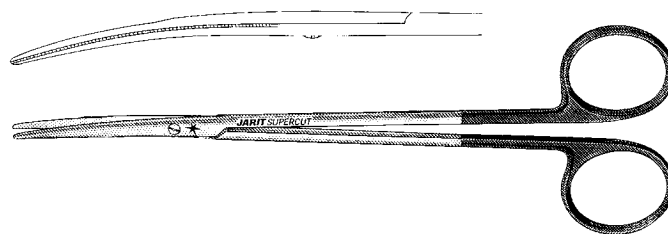


JAMISON Scissors,
curved

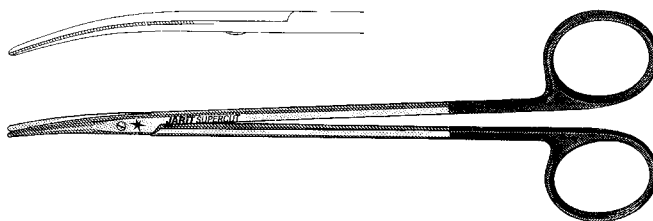
- 102-300** 5½" (14cm)
- 102-302** 7" (17.8cm)



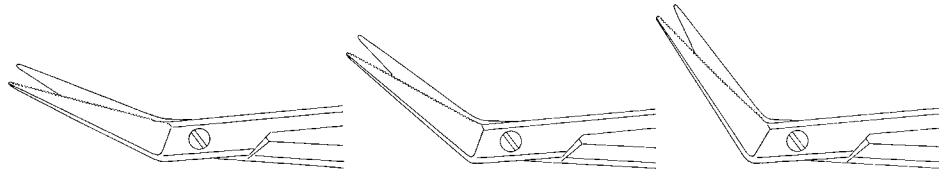
102-310 METZENBAUM Scissors,
7" (17.8cm) curved, delicate



102-315 JARIT Endarterectomy Scissors,
6¼" (17.1cm), curved

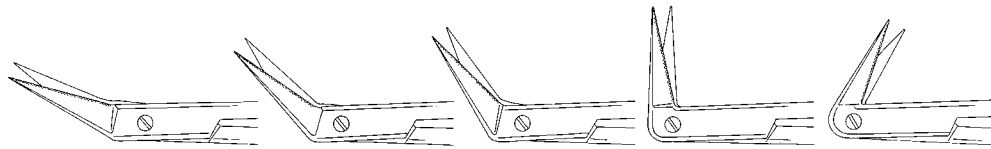
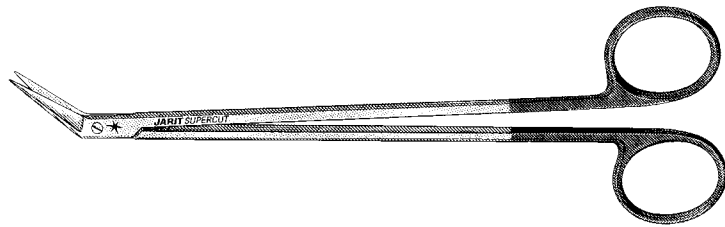


JARIT SUPERCUT SCISSORS - CARDIOVASCULAR



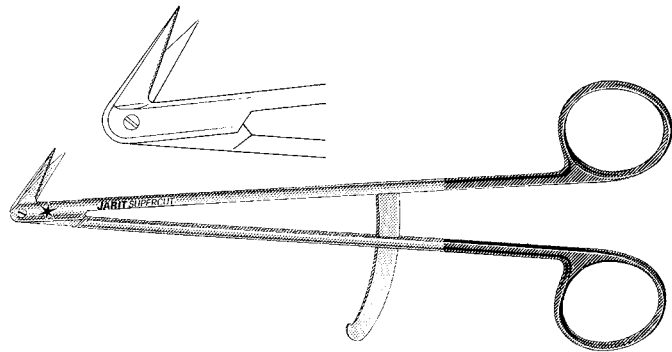
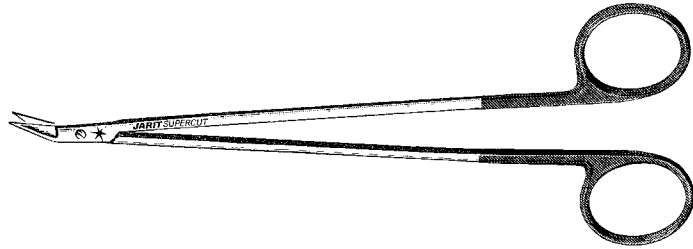
POTTS-SMITH Scissors,
7" (17.8cm)

- 102-320** 25°
- 102-321** 45°
- 102-322** 60°

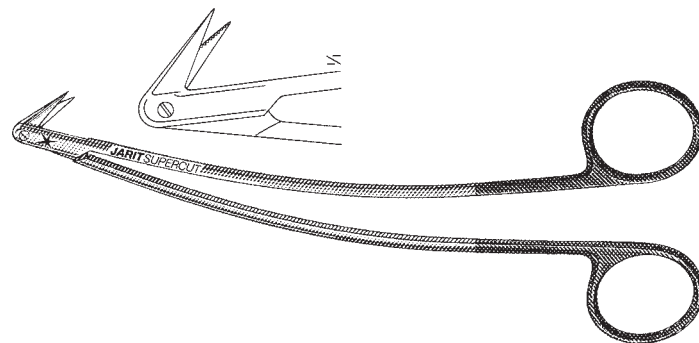


DIETRICH Coronary Artery Scissors,
7" (17.8cm)

- 102-350** 25°
- 102-351** 45°
- 102-352** 60°
- 102-353** 90°
- 102-354** 125°



102-360 DIETRICH Coronary Artery Scissors,
7" (17.8cm), 130°, shanks are stabilized
to keep blades in alignment



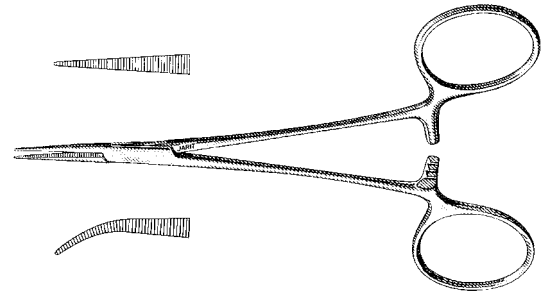
102-374 FAVALORO Scissors,
6 3/4" (17cm), 125°

PETIT-POINT®

JARIT PETIT-POINT feature a matched and balanced set of fine, delicate hemostats, soft-tension intestinal clamps, delicate scissors, and needle holders, for pediatric and other delicate procedures.

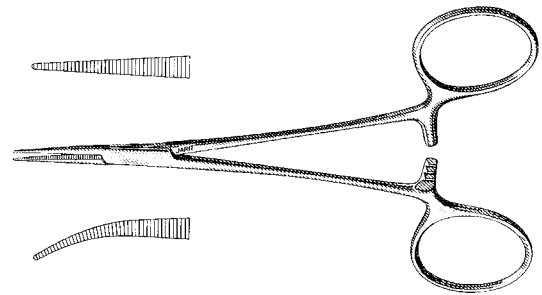
PETIT-POINT JACOBSON MOSQUITO Forceps,
5" (12.7cm)

- 105-088** Straight
- 105-089** Curved



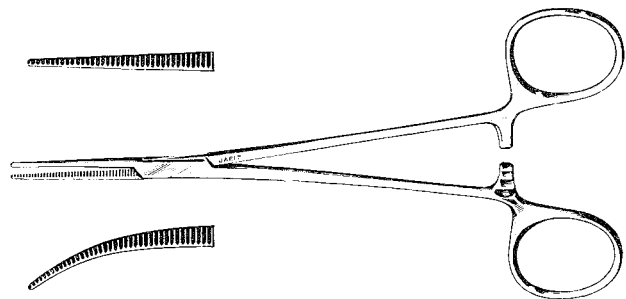
PETIT-POINT MOSQUITO Forceps

- 105-090** 3 7/8" (9.8cm), straight
- 105-091** 3 7/8" (9.8cm), curved
- 105-095** 4 3/8" (12.1cm), straight
- 105-096** 4 3/8" (12.1cm), curved



PETIT-POINT MOSQUITO Forceps,
6" (15.2cm)

- 105-098** Straight
- 105-099** Curved

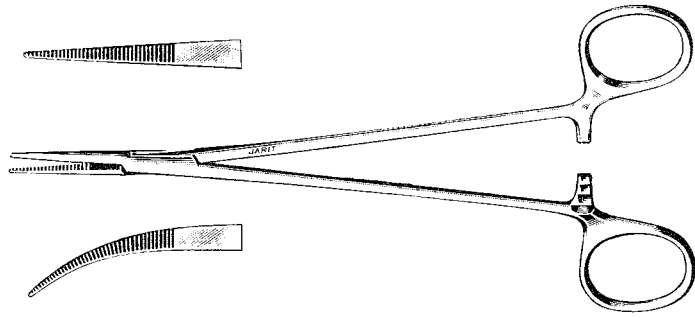




PETIT-POINT INSTRUMENTS

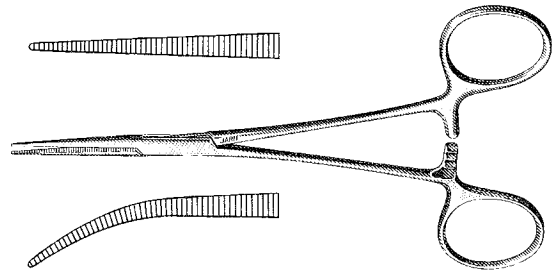
PETIT-POINT MOSQUITO Forceps,
7 $\frac{1}{2}$ " (18.1cm)

- 285-107 Straight
- 285-108 Curved



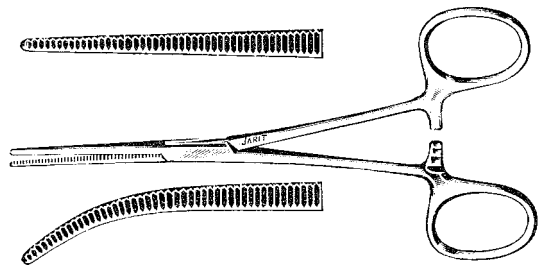
PETIT-POINT CRILE Forceps,
5 $\frac{1}{2}$ " (14cm)

- 105-118 Straight
- 105-119 Curved



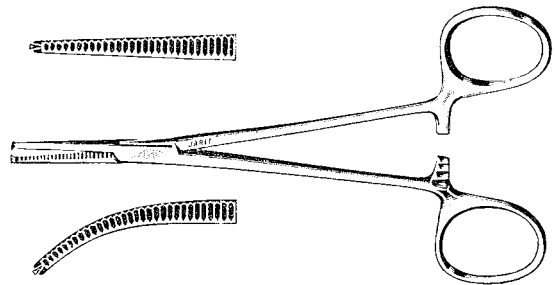
PETIT-POINT PEAN Forceps,
5 $\frac{1}{2}$ " (14cm)

- 105-163 Straight
- 105-164 Curved

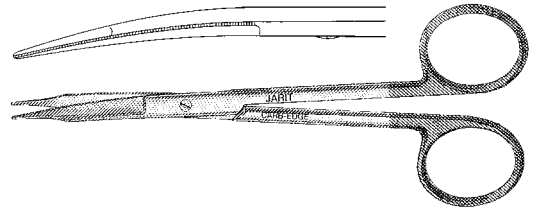


PETIT-POINT OCHSNER Forceps,
5 $\frac{1}{2}$ " (14cm)

- 105-233 Straight
- 105-234 Curved

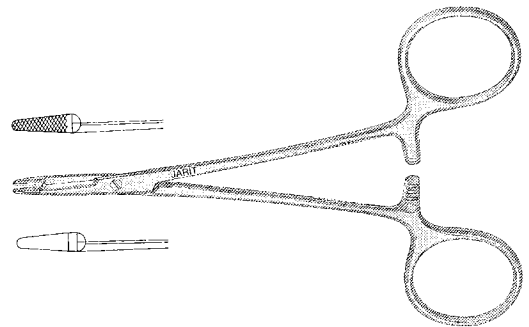


101-255 **PETIT-POINT REYNOLDS** Scissors,
5" (12.7cm), curved CARB-EDGE blades,
one blade serrated



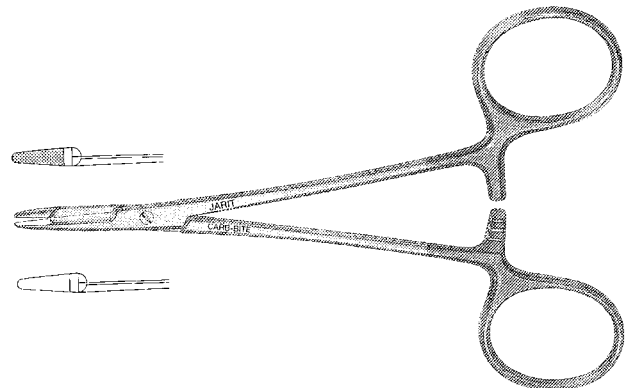
PETIT-POINT OLSEN-HEGAR Needle Holders,
5" (12.7cm), delicate

120-148 Serrated
120-149 Smooth



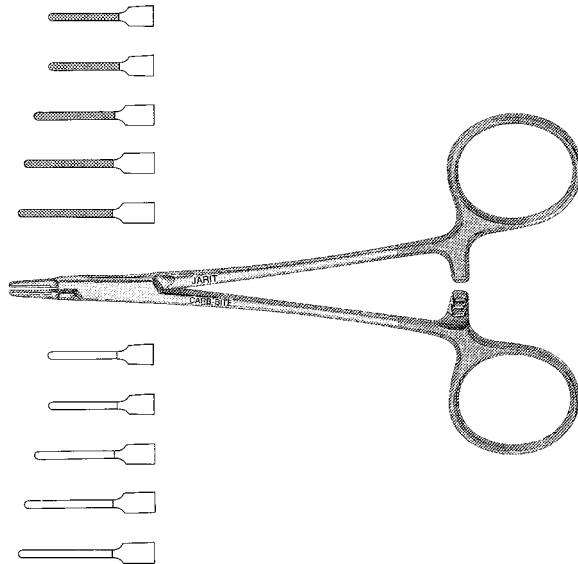
PETIT-POINT OLSEN-HEGAR Needle Holders,
5" (12.7cm), delicate CARB-BITE jaws

121-148 Serrated
121-149 Smooth



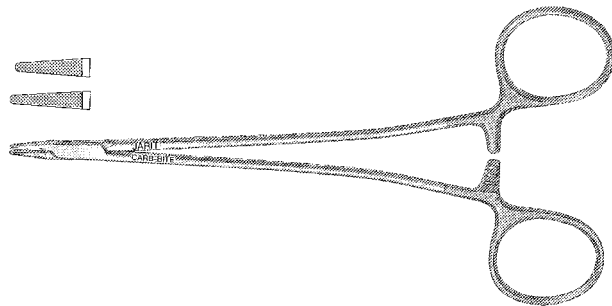
PETIT-POINT RYDER Needle Holders,
1mm CARB-BITE jaws

- 121-170** 5" (12.7cm), serrated
- 121-171** 5" (12.7cm), smooth
- 121-172** 6" (15.2cm), serrated
- 121-173** 6" (15.2cm), smooth
- 121-174** 7" (17.8cm), serrated
- 121-175** 7" (17.8cm), smooth
- 121-176** 8" (20.3cm), serrated
- 121-179** 8" (20.3cm), smooth
- 121-177** 9" (22.8cm), serrated
- 121-178** 9" (22.8cm), smooth

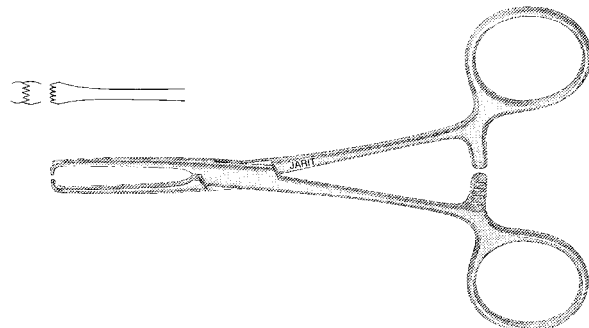


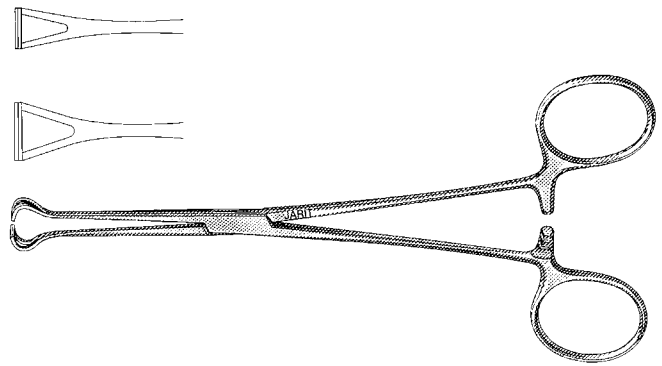
PETIT-POINT SAROT Needle Holders,
CARB-BITE jaws, delicate

- 121-197** 6" (15.2cm)
- 121-198** 6 1/2" (16.8cm)



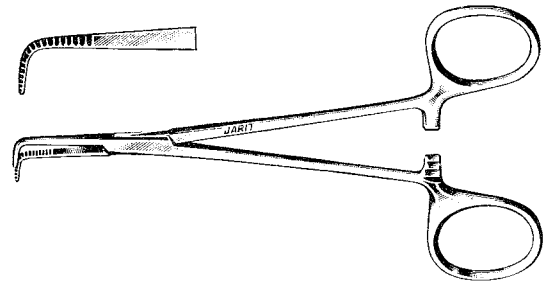
- 135-095** **PETIT-POINT ALLIS** Tissue Forceps,
5 1/4" (13.3cm), 4 x 5 teeth



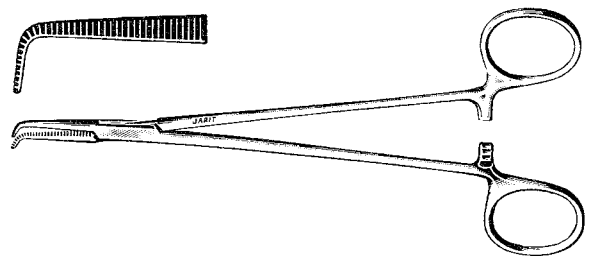


PETIT-POINT BABCOCK Forceps

- 135-179** 5¼" (13.3cm), jaw width 6mm
- 135-180** 6¼" (16cm), jaw width 7.5mm



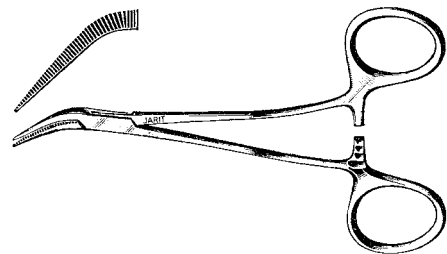
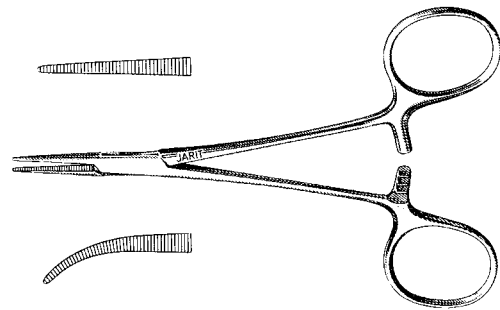
- 140-218** **PETIT-POINT MIXTER** Forceps,
5¼" (13.3cm)



- 140-223** **PETIT-POINT MIXTER** Forceps,
7¼" (18.4cm)

HALSTEAD Mosquito Forceps

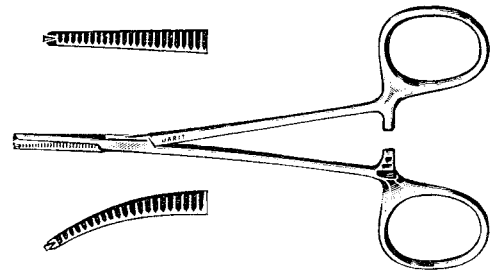
Mirror	Satin	Matte	
105-100	106-100	107-100	5" (12.7cm), straight
105-102	106-102	107-102	5" (12.7cm), curved



105-105 HALSTEAD Mosquito Forceps,
5" (12.7cm), angled, mirror finish

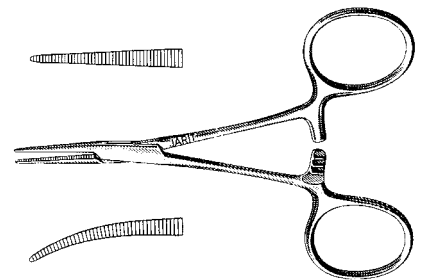
HALSTEAD Mosquito Forceps,
5" (12.7cm), 1 x 2 teeth, mirror finish

- 105-110 Straight
- 105-112 Curved



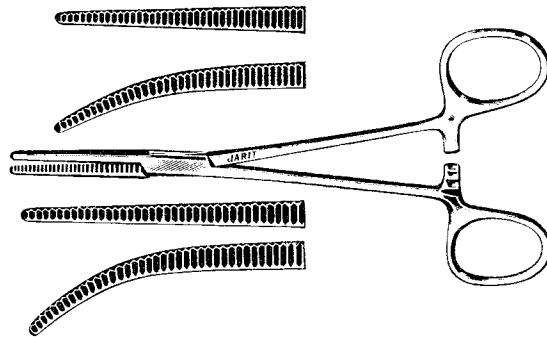
HARTMAN Mosquito Forceps,
3½" (8.9cm)

- | | | |
|---------|---------|----------|
| Mirror | Matte | |
| 105-114 | 107-114 | Straight |
| 105-115 | 107-115 | Curved |



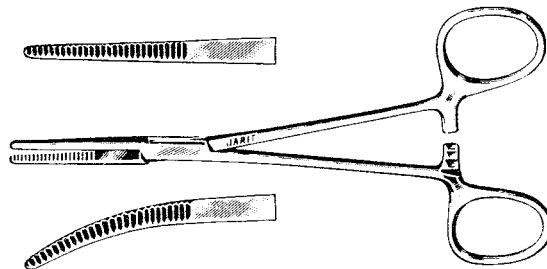
CRILE Forceps

Mirror	Satin	Matte	
105-120	106-120	107-120	5½" (14cm), straight
105-121	106-121	107-121	5½" (14cm), curved
105-140	106-140	107-140	6¾" (16cm), straight
105-141	106-141	107-141	6¾" (16cm), curved



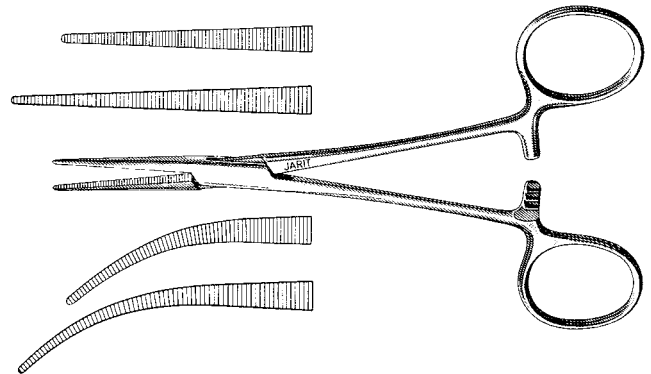
KELLY Forceps,
5½" (14cm)

Mirror	Satin	Matte	
105-130	106-130	107-130	Straight
105-131	106-131	107-131	Curved



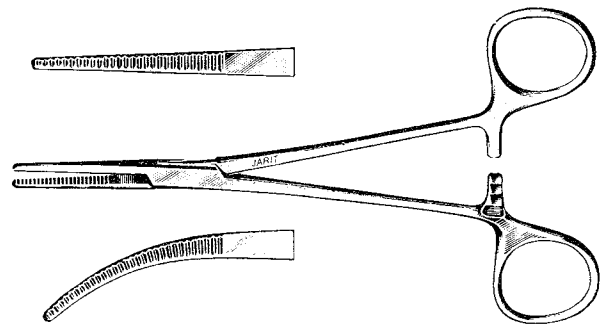
COLLER-CRILE Forceps,
fine tapered tips, mirror finish

- 105-142** 5½" (14cm), straight
- 105-143** 6¼" (16cm), straight
- 105-144** 5½" (14cm), curved
- 105-145** 6¼" (16cm), curved



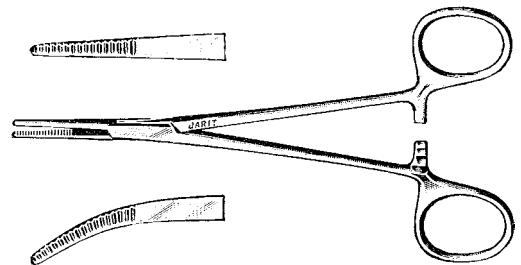
RANKIN Forceps,
6¼" (16cm)

- | | | |
|----------------|----------------|----------|
| Mirror | Satin | |
| 105-150 | 106-150 | Straight |
| 105-151 | 106-151 | Curved |



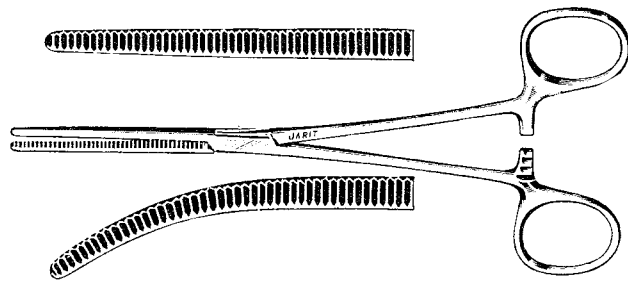
PROVIDENCE HOSPITAL Forceps,
5½" (14cm), mirror

- 105-160** Straight
- 105-161** Curved



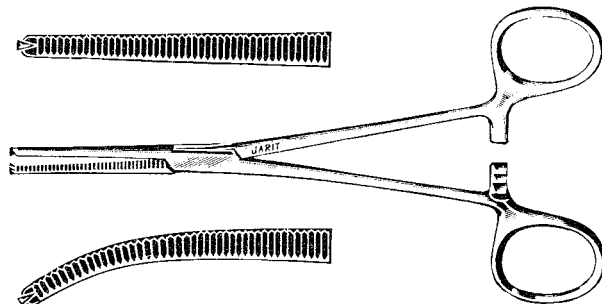
ROCHESTER-PEAN Forceps

Mirror	Satin	Matte	
105-168	106-168		5½" (14cm), straight
105-169	106-169		5½" (14cm), curved
105-170	106-170	107-170	6¼" (16cm), straight
105-171	106-171	107-171	6¼" (16cm), curved
105-180	106-180	107-180	7¼" (18.4cm), straight
105-181	106-181	107-181	7¼" (18.4cm), curved
105-190	106-190	107-190	8" (20.3cm), straight
105-191	106-191	107-191	8" (20.3cm), curved
105-195	106-195		9" (22.8cm), straight
105-196	106-196		9" (22.8cm), curved
105-197			10" (25.4cm), straight
105-198			11" (27.9cm), straight
105-199			12" (30.5cm), straight



ROCHESTER-OCHSNER Forceps

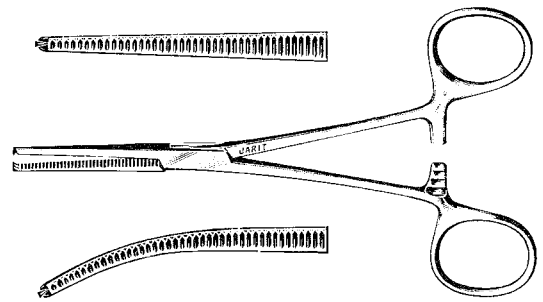
Mirror	Satin	Matte	
105-200	106-200	107-200	6¼" (16cm), straight
105-202	106-202		6¼" (16cm), curved
105-210	106-210	107-210	7¼" (18.4cm), straight
105-212	106-212		7¼" (18.4cm), curved
105-220	106-220	107-220	8" (20.3cm), straight
105-222	106-222	107-222	8" (20.3cm), curved
105-223			9" (22.8cm), straight
105-224			9" (22.8cm), curved
105-225			10" (25.4cm), straight
105-226			10" (25.4cm), curved
105-227			11" (27.9cm), straight
105-229			12" (30.5cm), straight
105-228			14" (35.6cm), straight



KOCHER Forceps,
5½" (14cm)

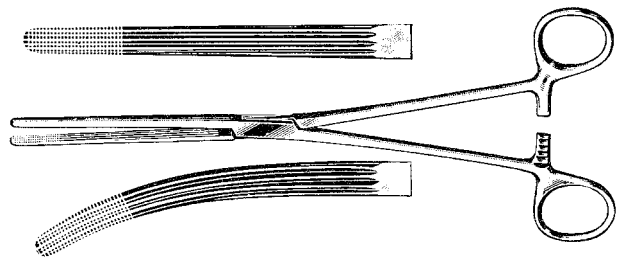
Mirror Satin

- | | | |
|----------------|----------------|----------|
| 105-230 | 106-230 | Straight |
| 105-232 | 106-232 | Curved |



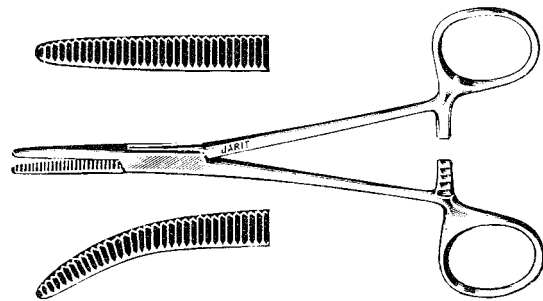
ROCHESTER-CARMALT Forceps

- | | |
|----------------|-----------------------|
| 105-240 | 6¼" (16cm), straight |
| 105-242 | 6¼" (16cm), curved |
| 105-243 | 8" (20.3cm), straight |
| 105-245 | 8" (20.3cm), curved |

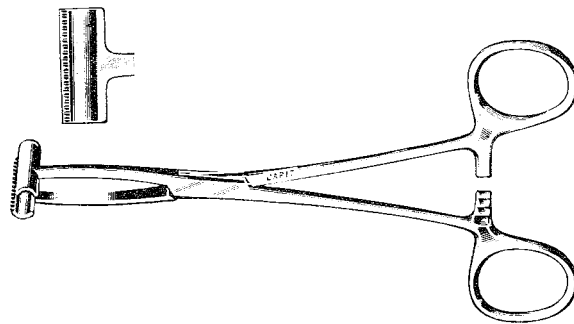


JONES Forceps,
5" (12.7cm)

- 105-250 Straight
- 105-251 Curved

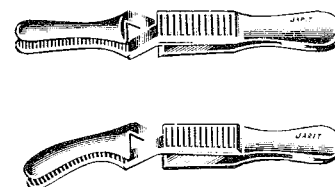


105-255 **PRATT** T-Clamp,
5 1/2" (15cm)



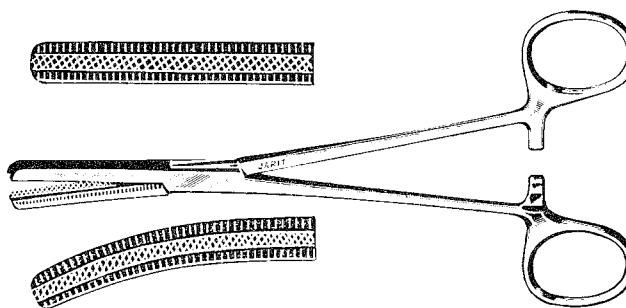
SERREFINE Forceps

- 105-260** 1½" (3.8cm), straight
- 105-261** 1½" (3.8cm), curved
- 105-262** 2½" (6.4cm), straight
- 105-263** 2½" (6.4cm), curved



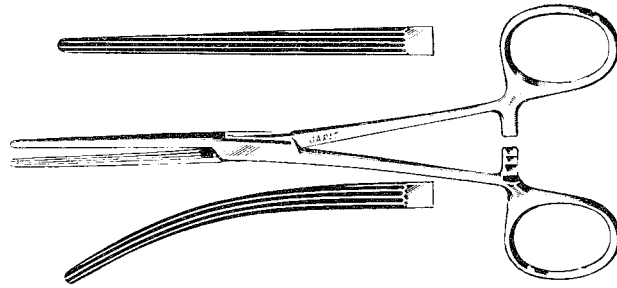
FERGUSON Angiotribes,
6½" (16.5cm)

- 105-270** Straight
- 105-271** Curved

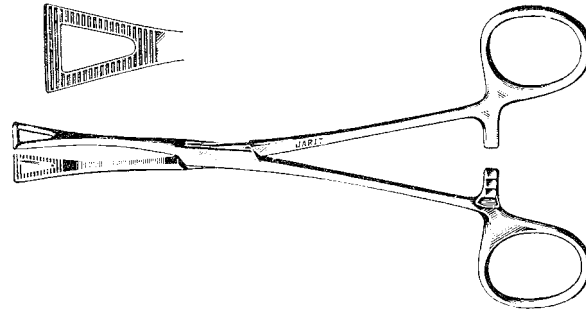


BAINBRIDGE Forceps

- 105-300 6" (15.2cm), straight
- 105-302 6" (15.2cm), curved
- 105-304 7½" (18.4cm), straight
- 105-306 7½" (18.4cm), curved

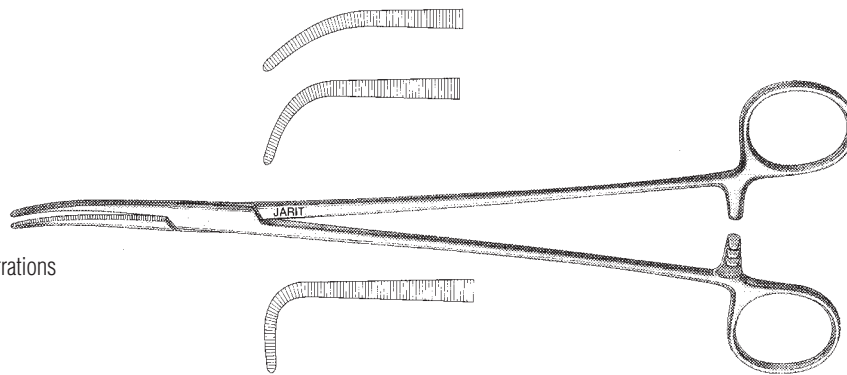


- 105-320 **PENNINGTON** Forceps,
5¾" (14.6cm), triangular jaws



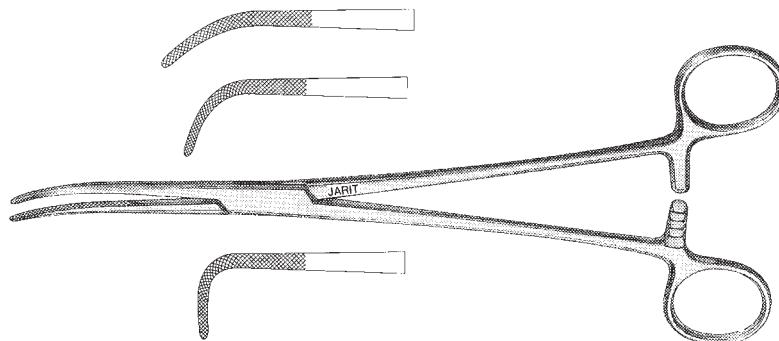
COLLER Forceps,
9½" (241mm), full horizontal serrations

- 105-330 Curved
- 105-331 Strong curve
- 105-332 Right angle

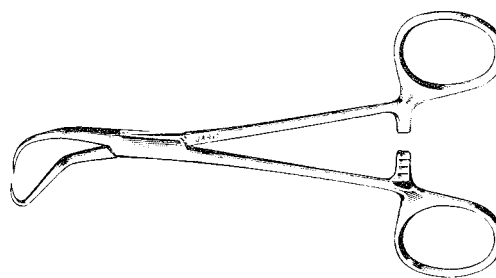


STOREY Forceps
8¾" (222mm), cross serrations

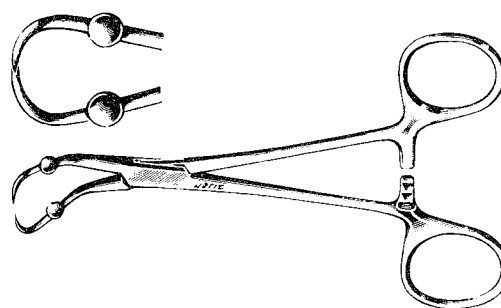
- 105-340 Slight curve
- 105-341 Strong curve
- 105-342 Right angle



BACKHAUS Towel Forceps			
Mirror	Satin	Matte	
110-100	111-100	109-100	3½" (8.9cm)
110-102	111-102	109-102	5¼" (13.3cm)

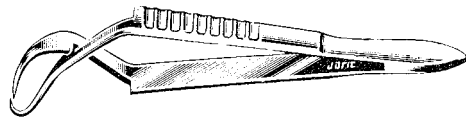


110-105 **ROEDER** Towel Forceps,
5¼" (13.3cm)



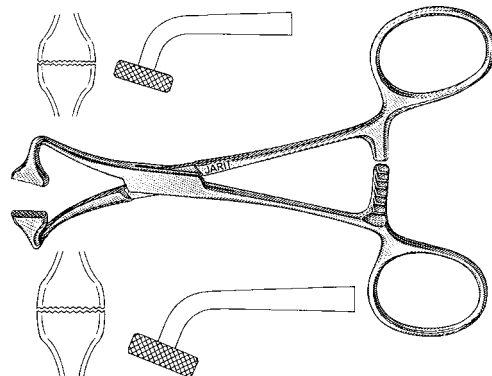
JONES Towel Forceps,
cross-action

- 110-110 3" (7.6cm)
- 110-111 2½" (5.7cm)

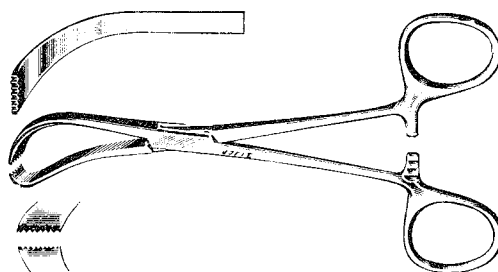


JARIT Towel Forceps,
with non-perforating jaws

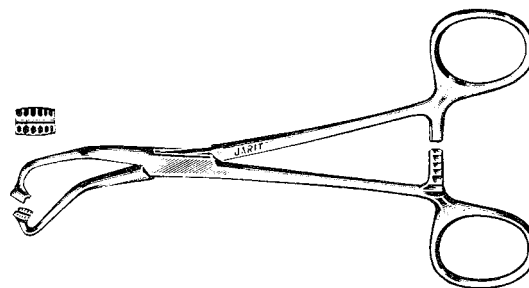
- 110-117 4" (10.1cm)
- 110-118 5¼" (13.3cm)



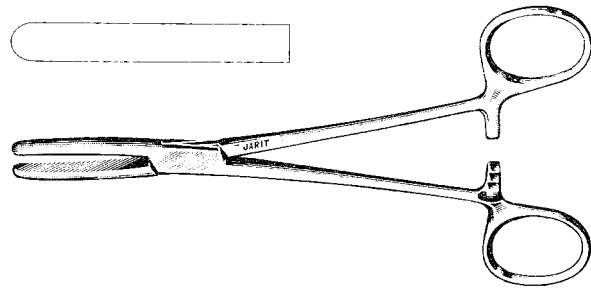
EDNA Towel Forceps
Mirror Matte
110-119 **109-119** 4" (10.1cm)
110-120 **109-120** 5½" (14cm)



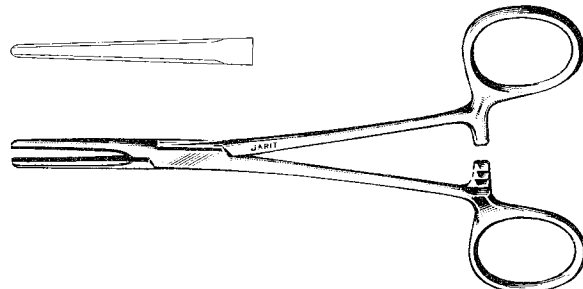
110-121 **PEERS** Towel Forceps,
5¾" (14.6cm)



110-150 PRESBYTERIAN HOSPITAL Tube Occluding Forceps,
6½" (16.5cm)

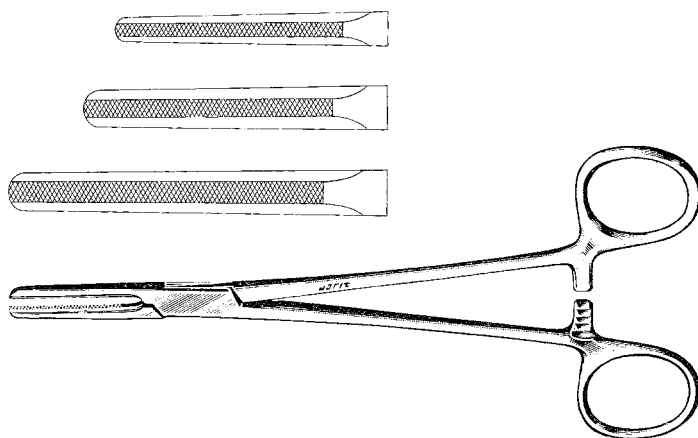


110-154 JARIT Tube Occluding Forceps,
5½" (14cm), delicate jaws with smooth
inner surfaces, beveled edges



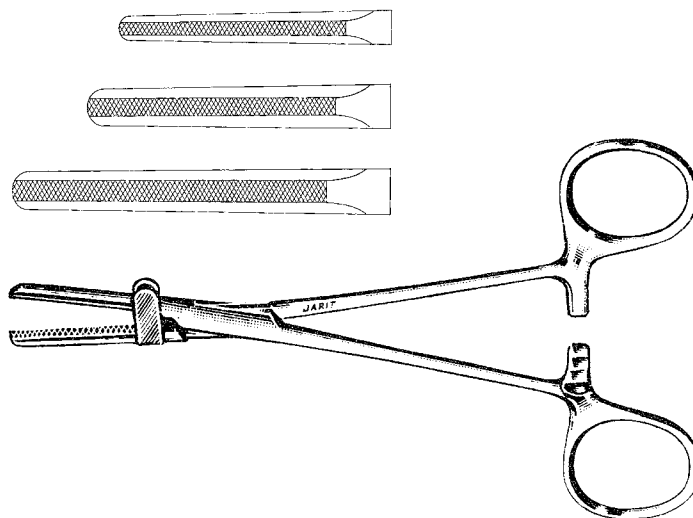
JARIT (VORSE) Tube Occluding Forceps

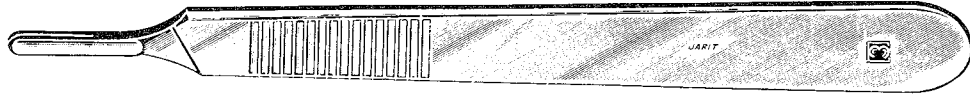
- 110-155** 5½" (14cm)
- 110-157** 7¼" (18.4cm)
- 110-159** 8" (20.3cm), heavy jaw



JARIT Tube Occluding Forceps, with U-shaped guard

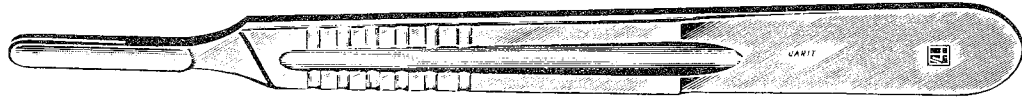
- 110-160** 5½" (14cm)
- 110-161** 7¼" (18.4cm)
- 110-162** 8" (20.3cm), heavy jaw





KNIFE HANDLE #3,
holds blades 10, 11, 12, 15
Length 5" (12.7cm)

Satin Matte
110-165 110-175



KNIFE HANDLE #4,
holds blades 20 thru 25
Length 5 1/4" (13.3cm)

Satin Matte
110-167 110-176



KNIFE HANDLE #7,
holds blades 10, 11, 12, 15
Length 6 1/2" (16.5cm)

Satin Matte
110-169 110-177



KNIFE HANDLE #3L,
for deep surgery,
holds blades 10, 11, 12, 15
Length 8 3/4" (21.3cm)

Satin Matte
110-170 110-178



KNIFE HANDLE #3LA,
angled, for deep surgery,
holds blades 10, 11, 12, 15
Length 8 3/4" (21.3cm)

Satin
110-171

JARIT SCALPEL HANDLES



KNIFE HANDLE #4L,
for deep surgery,
holds blades 20-25

110-173 Length 8 $\frac{3}{4}$ " (21.3cm)



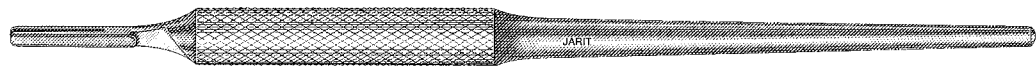
KNIFE HANDLE #9 (7K),
holds blades 10, 11, 12, 15

110-174 Length 5" (12.7cm)



BARRON Knife Handle,
octagonal handle,
holds blades 10, 11, 12, 15

110-180 Length 5 $\frac{1}{2}$ " (14cm)



CORWIN Knife Handle,
round knurled handle,
holds blades 10, 11, 12, 15

110-182 Length 5 $\frac{3}{8}$ " (13.7cm)



KNIFE HANDLE,
round knurled handle,
holds miniature blades (e.g. series 50, 60, 70)

110-190 #3KS, 4" (10.1cm)

110-191 #3KL, 6" (15.2cm)

110-198 #3K/H replacement collet



KNIFE HANDLE,
hexagonal handle
holds miniature blades (e.g. series 50, 60, 70)

110-194 #3HS, 4" (10.1cm)

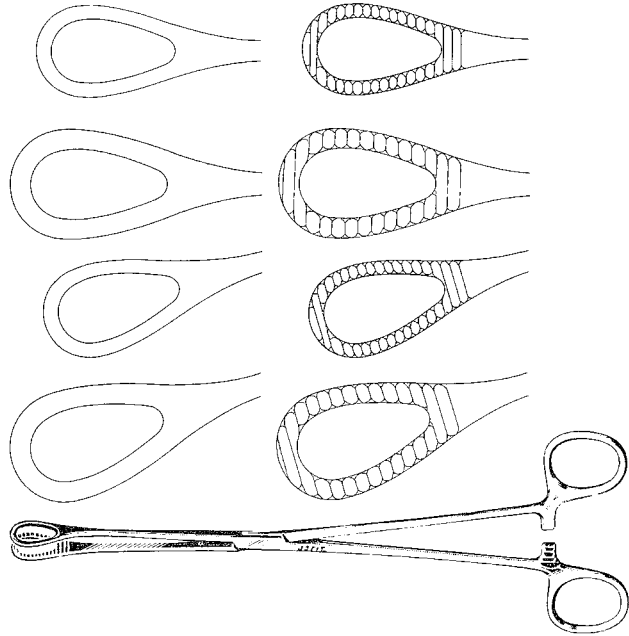
110-195 #3HL, 6" (15.2cm)

110-198 #3K/H replacement collet



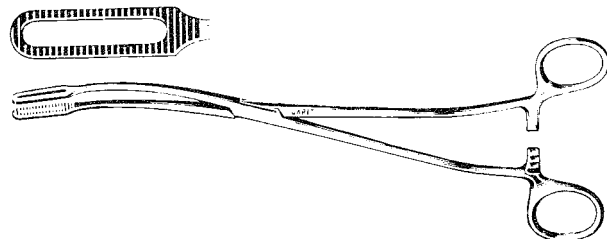
FOERSTER Sponge Holding Forceps

Mirror	Satin	Matte	
115-100	116-100		7" (17.8cm), straight, smooth
115-102	116-102	114-102	7" (17.8cm), straight, serrated
115-105	116-105		9½" (24.1cm), straight, smooth
115-107	116-107	114-107	9½" (24.1cm), straight, serrated
115-110	116-110		7" (17.8cm), curved, smooth
115-112	116-112		7" (17.8cm), curved, serrated
115-115	116-115		9½" (24.1cm), curved, smooth
115-117	116-117		9½" (24.1cm), curved, serrated
		114-124	14" (35.6cm), straight, serrated



FLETCHER Sponge Forceps,
9½" (24.1cm)

115-119	Straight
115-120	Curved



**Instrument
Sterilizing Trays**

- 117-100** 5" x 15½" x 3" (12.7 x 39.4 x 7.6cm)
- 117-102** 6" x 24" x 3½" (15.2 x 61 x 8.9cm)
- 117-106** 8" x 25¼" x 3½" (20.3 x 64.2 x 8.9cm)
- 117-108** 10" x 6½" x 2½" (25.4 x 16.5 x 6.4cm)
- 117-110** 10½" x 10" x 3½" (26.7 x 25.4 x 8.9cm)
- 117-112** 10½" x 15" x 3½" (26.7 x 38.1 x 8.9cm)
- 117-114** 10½" x 20" x 3½" (26.7 x 50.8 x 8.9cm)
- 117-116** 13" x 20¼" x 3½" (33 x 51.5 x 8.9cm), handles inside
- 117-118** 13" x 20¼" x 3½" (33 x 51.5 x 8.9cm), handles outside



- 117-120** **Lifting Handles** for lifting and carrying sterilization trays, set of 2

Covered Instrument Sterilization Trays
with positive locking latch. Removable cover can be stored under tray during use.

- 117-130** 5" x 15½" x 3" (12.7 x 39.4 x 7.6cm)
- 117-132** 6" x 24" x 3½" (15.2 x 61 x 8.9cm)
- 117-136** 8" x 25¼" x 3½" (20.3 x 64.2 x 8.9cm)
- 117-138** 10" x 6½" x 2½" (25.4 x 16.5 x 6.4cm)
- 117-140** 10½" x 10" x 3½" (26.7 x 25.4 x 8.9cm)
- 117-142** 10½" x 15" x 3½" (26.7 x 38.1 x 8.9cm)
- 117-144** 10½" x 20" x 3½" (26.7 x 50.8 x 8.9cm)
- 117-148** 13" x 20¼" x 3½" (33 x 51.5 x 8.9cm)



MAYO Trays
Perforated

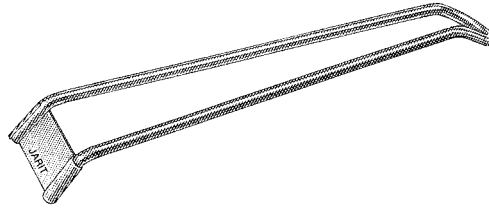
- 117-160** 10" x 6½" x ¾" (25.4 x 16.5 x 2cm)
- 117-162** 13½" x 9¾" x ¾" (34.3 x 24.8 x 2cm)
- 117-164** 15" x 10¾" x ¾" (38.1 x 27 x 2cm)
- 117-166** 17" x 11¾" x ¾" (43.2 x 29.5 x 2cm)
- 117-168** 19" x 12¾" x ¾" (48.3 x 32.1 x 2cm)
- 117-170** 21¼" x 16¼" x ¾" (54 x 41.3 x 2cm)





**Flash Autoclaving Pans,
Tray and Safety Handle**

- 117-180** Pan, 9" x 5" x 2" (23 x 12.7 x 5.1cm)
- 117-182** Pan, 10" x 6½" x 2½" (25.4 x 16.5 x 6.3cm)
- 117-184** Tray, 10" x 6½" x 2½" (25.4 x 16.5 x 6.3cm)
- 117-188** Safety Handle



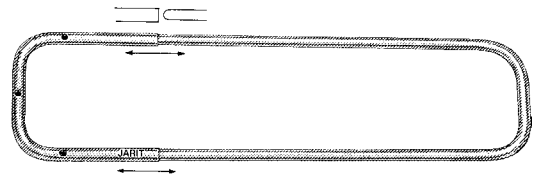
Deep Perforated Instrument Pans

- 117-190** 9" x 5" x 2" (23 x 12.7 x 5.1cm)
- 117-192** 10" x 6½" x 2" (25.4 x 16.5 x 5.1cm)
- 117-194** 12¼" x 7¾" x 2½" (31.1 x 19.7 x 6.3cm)
- 117-196** 12¾" x 10½" x 2½" (32.4 x 26.7 x 6.3cm)
- 117-198** 16" x 10" x 2½" (40.6 x 25.4 x 6.3cm)
- 117-199** 20¾" x 12¾" x 2½" (52.7 x 32.4 x 6.3cm)



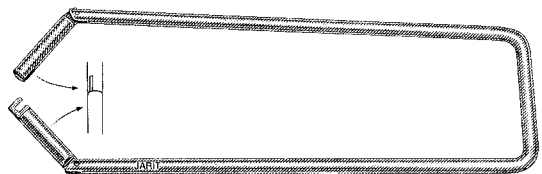
WEINSTEIN Instrument Holders,
width 2½" (6.3cm)

- 117-240** 6" (15.2cm)
- 117-242** 8" (20.3cm)
- 117-244** 10" (25.4cm)
- 117-246** 12" (30.5cm)
- 117-247** 14" (35.6cm)
- 117-248** 16" (40.6cm)
- 117-249** 18" (45.7cm)



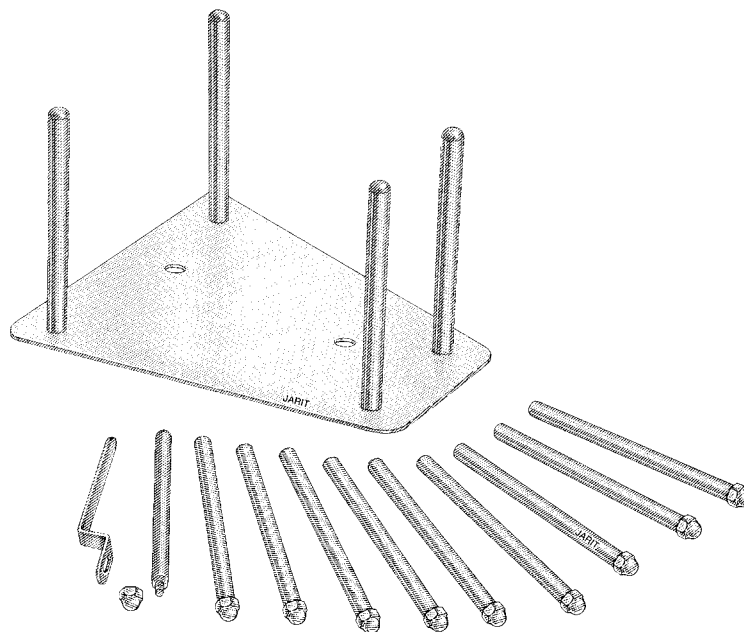
JARIT Instrument Holders,
width 2½" (6.3cm)

- 117-250** 6" (15.2cm)
- 117-252** 8" (20.3cm)
- 117-254** 10" (25.4cm)
- 117-256** 12" (30.5cm)
- 117-258** 14" (35.6cm)
- 117-260** 16" (40.6cm)
- 117-262** 18" (45.7cm)



Instrument Stringers

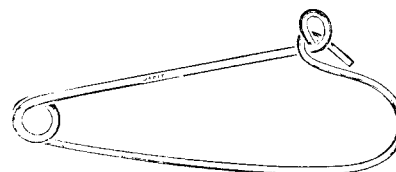
- 117-270** 8" x 2½" (20.3 x 6.3cm)
- 117-272** 10" x 2½" (25.4 x 6.3cm)
- 117-274** 12" x 2½" (30.5 x 6.3cm)
- 117-276** 14" x 2½" (35.6 x 6.3cm)
- 117-278** 16" x 2½" (40.6 x 6.3cm)
- 117-280** 18" x 2½" (45.7 x 6.3cm)



- 117-330 Instrument Rack,**
with four vertical pins,
keeps box locks open during sterilization

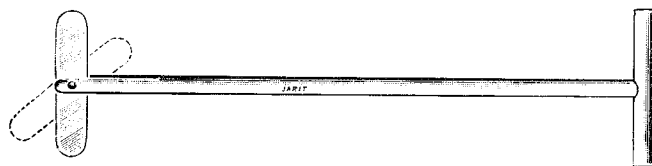
- 117-340 Tray Pins,**
box of 10

- 118-116 BUNT Forceps Holder**



JARIT Forceps Holder

- 118-118** 6" (15.2cm)
- 118-119** 12" (30.5cm)



117-370 GRADUATED MEASURE
4 $\frac{1}{4}$ " x 5 $\frac{1}{4}$ " (12.1 x 13.3cm), 32 oz



SOLUTIONS BASIN
117-380 13 $\frac{3}{8}$ " x 4 $\frac{5}{8}$ " (34.6 x 11.7cm), 7 qt
117-381 14 $\frac{1}{2}$ " x 5" (36.8 x 12.7cm), 9 $\frac{1}{2}$ qt



117-360 IODINE CUP
3 $\frac{3}{8}$ " x 2" (8.6 x 5.1cm), 6 oz



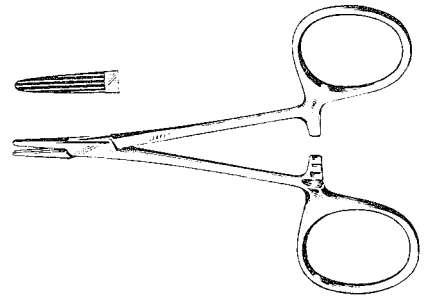
117-365 MEDICINE CUP
2 $\frac{1}{2}$ " x 2" (5.4 x 5.1cm), 2 oz, graduated



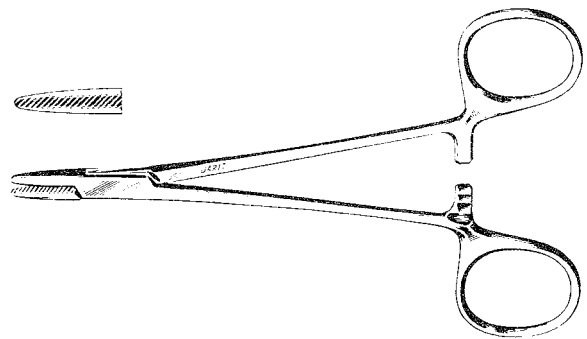
EMESIS BASIN
117-390 6 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " (16.8 x 8.9 x 3.8cm), 10 oz
117-391 8 $\frac{1}{2}$ " x 3 $\frac{3}{4}$ " x 1 $\frac{1}{8}$ " (20.6 x 9.2 x 4.1cm), 12 oz
117-392 9 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ " x 2 $\frac{1}{8}$ " (25.1 x 11.4 x 5.4cm), 26 oz



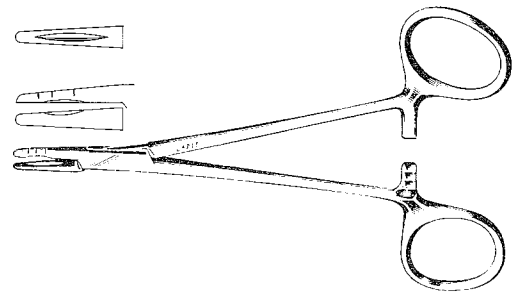
120-090 CONVERSE Needle Holder,
4¼" (10.8cm), large finger rings



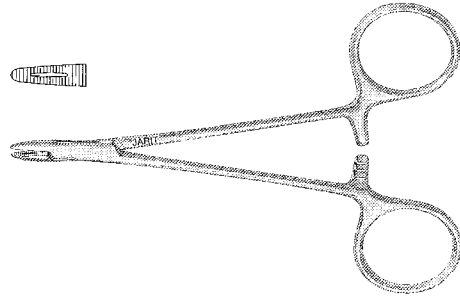
120-095 BROWN Needle Holder,
5¼" (13.3cm)



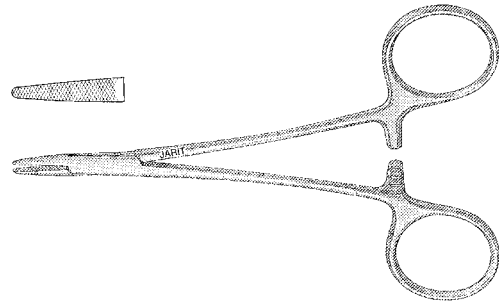
120-097 NEIVERT Needle Holder,
5" (12.7cm), thumb ring turned up



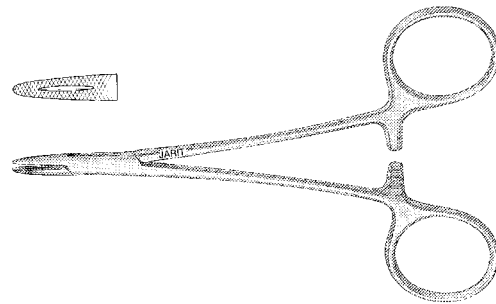
120-100 **DERF** Needle Holder,
4 $\frac{1}{4}$ " (12.1cm)



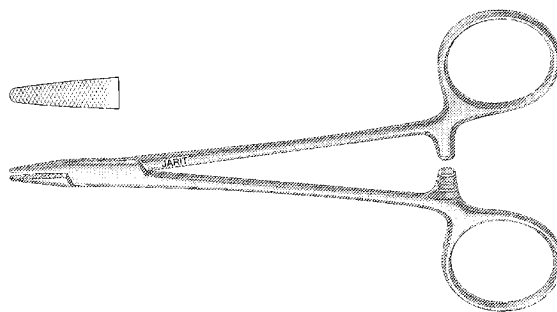
120-105 **BAUMGARTNER** Needle Holder,
5 $\frac{1}{4}$ " (13.3cm), solid jaws



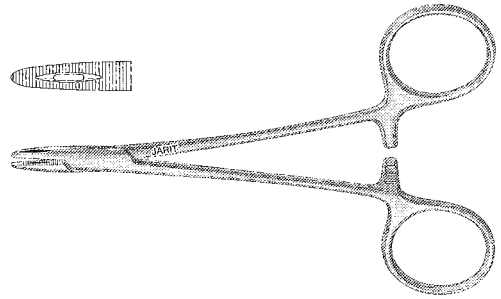
120-110 **BAUMGARTNER** Needle Holder,
5 $\frac{1}{4}$ " (13.3cm), grooved jaws



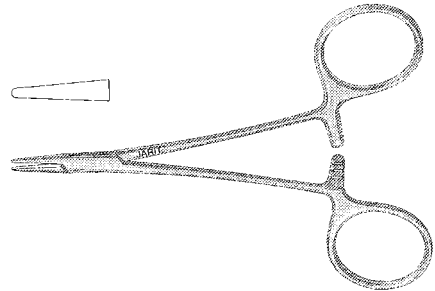
120-112 **HEGAR-BAUMGARTNER** Needle Holder,
5 $\frac{1}{2}$ " (14cm), solid jaws



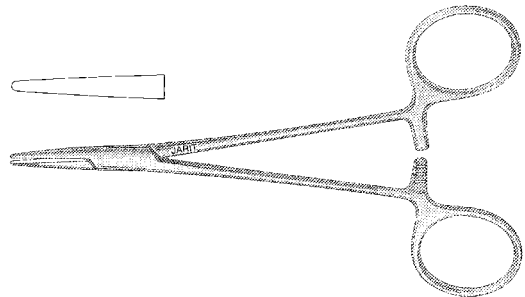
120-115 COLLIER Needle Holder,
5" (12.7cm)



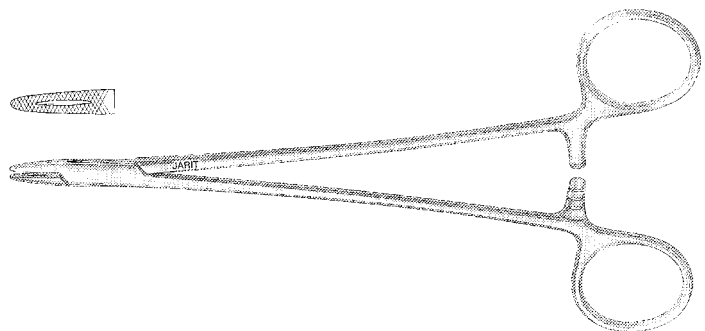
120-118 WEBSTER Needle Holder,
4½" (11.4cm), smooth jaws



120-120 HALSEY Needle Holder,
5" (12.7cm), smooth jaws

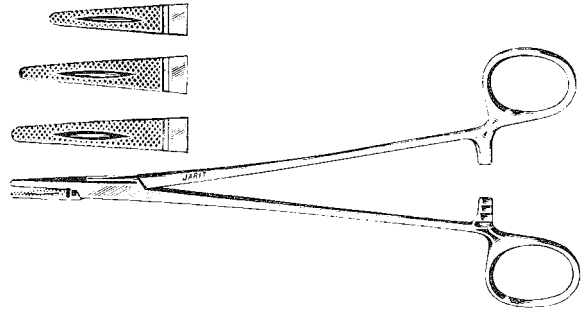


120-125 NEW ORLEANS Needle Holder,
7" (17.8cm)



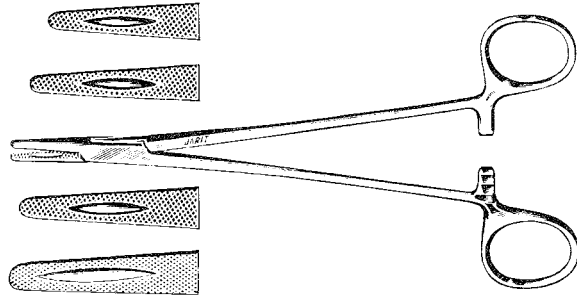
CRILE-WOOD Needle Holders

- 120-130 6" (15.2cm)
- 120-131 7" (17.8cm)
- 120-132 8" (20.3cm)



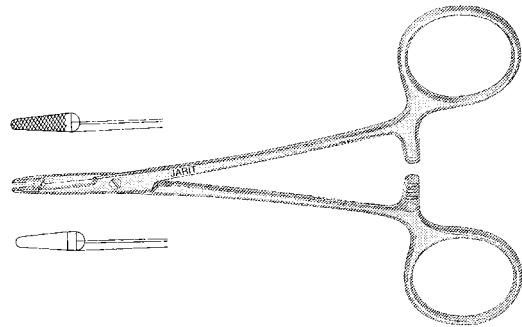
MAYO-HEGAR Needle Holders

- 120-135 6" (15.2cm)
- 120-140 7" (17.8cm)
- 120-145 8" (20.3cm)
- 120-147 12" (30.5cm)



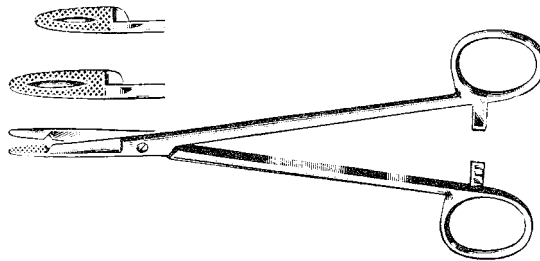
PETIT-POINT OLSEN-HEGAR Needle Holders,
5" (12.7cm), delicate

- 120-148 Serrated
- 120-149 Smooth

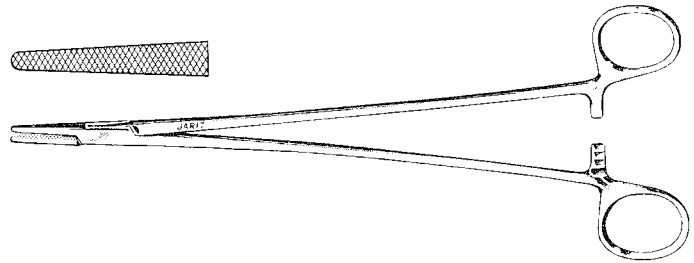


OLSEN-HEGAR Needle Holders

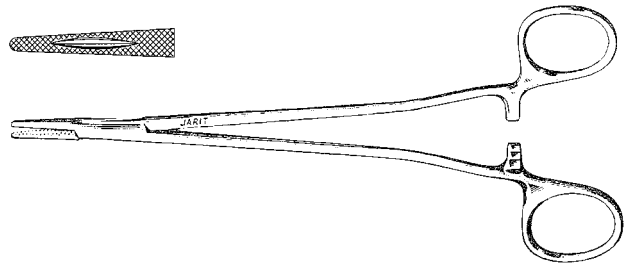
- 120-150 5½" (14cm)
- 120-155 6½" (16.5cm)



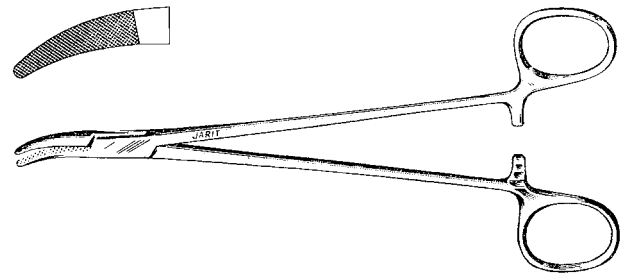
120-180 **MASSON** Needle Holder,
10½" (26.6cm)



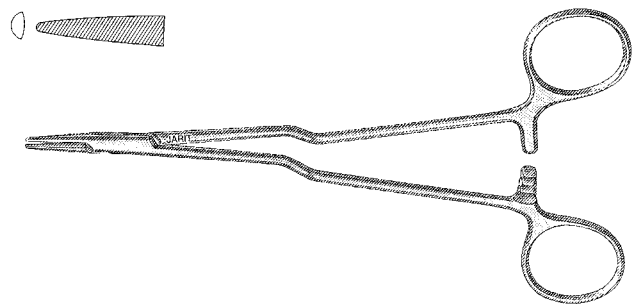
120-200 **SAROT** Needle Holder,
7½" (18.1cm), delicate



120-210 **HEANEY** Needle Holder,
8¼" (21cm), curved



120-215 **JARIT** Bayonet Needle Holder,
6¼" (17.1cm), fine tapered jaws



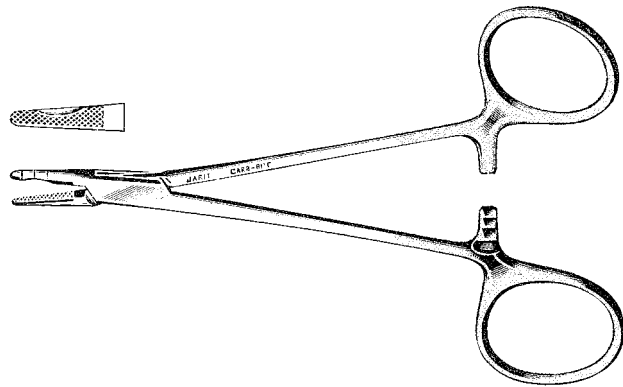
JARIT CARB-BITE NEEDLE HOLDERS

JARIT CARB-BITE Needle Holders feature jaw inserts of solid tungsten carbide. Sharply defined serrations have been milled into these inserts to provide a secure hold on the suture needle.

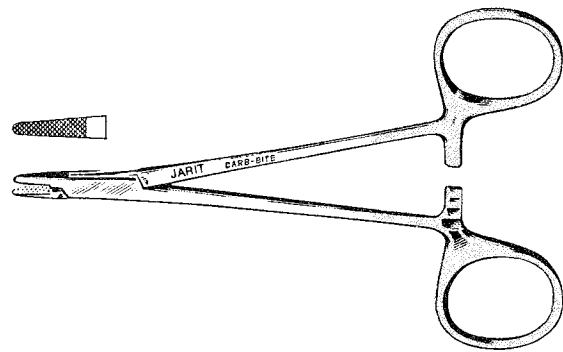
Because tungsten carbide is much harder than stainless steel, the useful life of CARB-BITE

Needle Holders greatly exceeds that of ordinary needle holders. JARIT CARB-BITE Needle Holders are guaranteed for a minimum of three years of normal usage. If jaw serrations should wear smooth while under guarantee, new CARB-BITE inserts will be installed without charge. Finger rings are gold plated for easy identification.

121-097 NEIVERT Needle Holder,
5" (12.7cm), thumb ring turned up



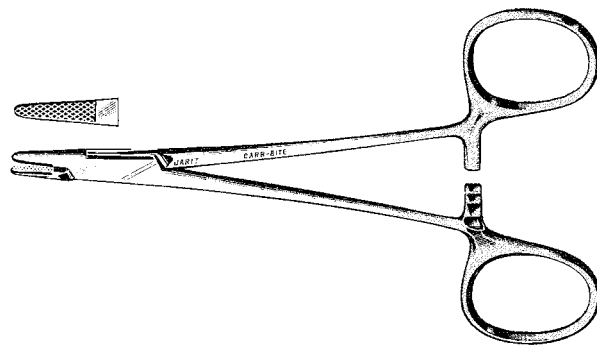
121-100 DERF Needle Holder,
4 3/4" (12.1cm)



BAUMGARTNER Needle Holder,
5 1/4" (13.3cm)

Satin Matte

121-105 123-105



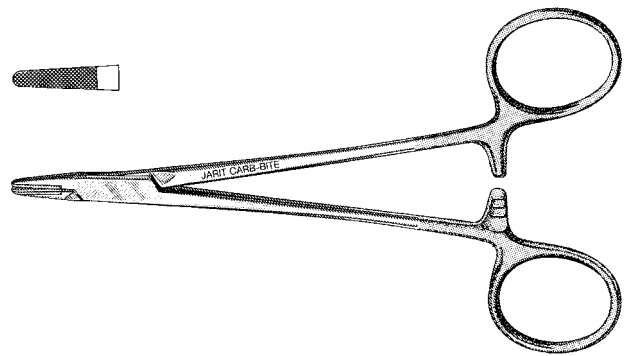
JARIT CARB-BITE NEEDLE HOLDERS

JARIT CARB-BITE Needle Holders feature jaw inserts of solid tungsten carbide. Sharply defined serrations have been milled into these inserts to provide a secure hold on the suture needle.

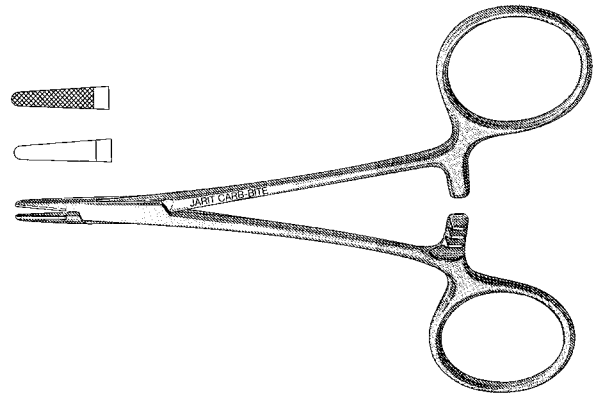
Because tungsten carbide is much harder than stainless steel, the useful life of CARB-BITE

Needle Holders greatly exceeds that of ordinary needle holders. JARIT CARB-BITE Needle Holders are guaranteed for a minimum of three years of normal usage. If jaw serrations should wear smooth while under guarantee, new CARB-BITE inserts will be installed without charge. Finger rings are gold plated for easy identification.

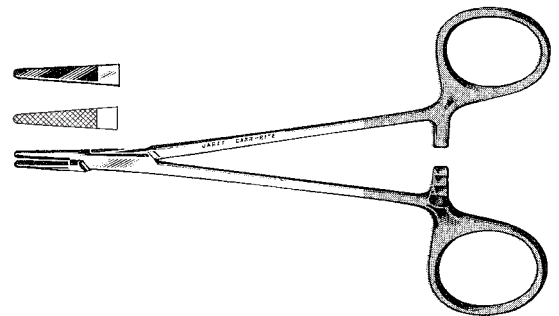
HEGAR-BAUMGARTNER Needle Holder,
5½" (14cm)
Satin Matte
121-106 **123-106**



JARIT PLASTIC AND RECONSTRUCTIVE Needle Holders,
4¾" (12cm)
121-115 Serrated
121-116 Smooth



WEBSTER Needle Holder,
121-118 4½" (11.4cm), smooth
121-119 4½" (11.4cm), serrated, 3600 teeth per square inch



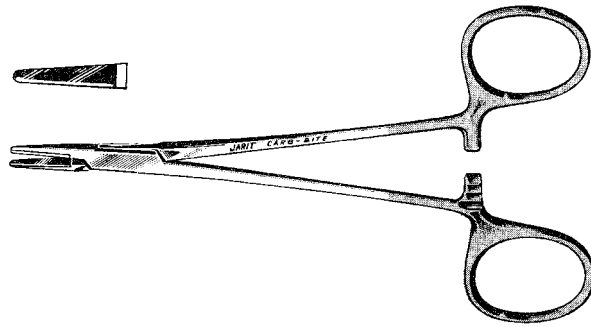
JARIT CARB-BITE NEEDLE HOLDERS

JARIT CARB-BITE Needle Holders feature jaw inserts of solid tungsten carbide. Sharply defined serrations have been milled into these inserts to provide a secure hold on the suture needle.

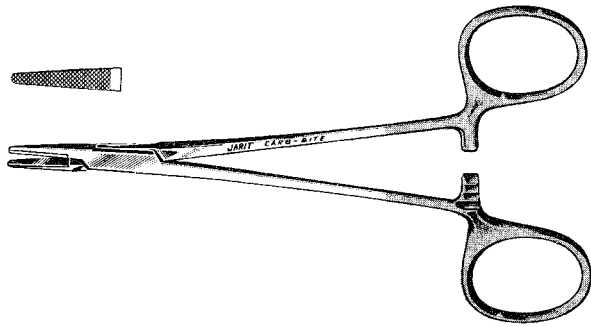
Because tungsten carbide is much harder than stainless steel, the useful life of CARB-BITE

Needle Holders greatly exceeds that of ordinary needle holders. JARIT CARB-BITE Needle Holders are guaranteed for a minimum of three years of normal usage. If jaw serrations should wear smooth while under guarantee, new CARB-BITE inserts will be installed without charge. Finger rings are gold plated for easy identification.

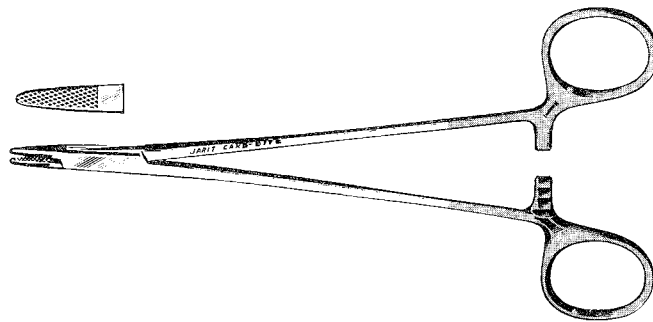
121-120 HALSEY Needle Holder,
5" (12.7cm), smooth



121-121 HALSEY Needle Holder,
5" (12.7cm), serrated



121-125 NEW ORLEANS Needle Holder,
7" (17.8cm)



JARIT CARB-BITE NEEDLE HOLDERS

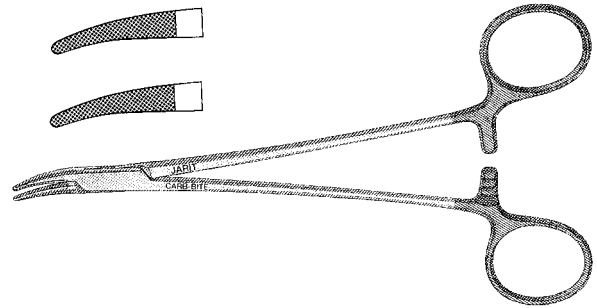
JARIT CARB-BITE Needle Holders feature jaw inserts of solid tungsten carbide. Sharply defined serrations have been milled into these inserts to provide a secure hold on the suture needle.

Because tungsten carbide is much harder than stainless steel, the useful life of CARB-BITE

Needle Holders greatly exceeds that of ordinary needle holders. JARIT CARB-BITE Needle Holders are guaranteed for a minimum of three years of normal usage. If jaw serrations should wear smooth while under guarantee, new CARB-BITE inserts will be installed without charge. Finger rings are gold plated for easy identification.

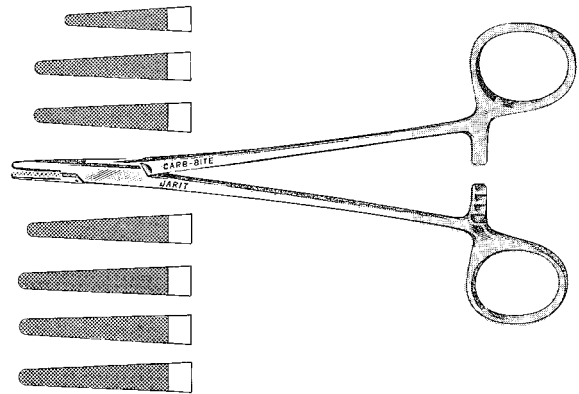
CRILE-WOOD Needle Holders,
curved

121-126 7" (17.8cm)
121-127 9" (22.8cm)



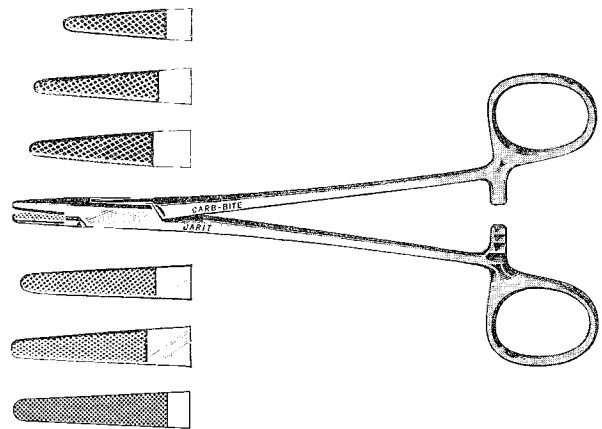
CRILE-WOOD Needle Holder

Satin	Matte	
121-130	123-130	6" (15.2cm)
121-131	123-131	7" (17.8cm)
121-132	123-132	8" (20.3cm)
121-133		9" (22.8cm)
121-134		10 1/4" (26cm)
121-129		12" (30.5cm)
121-128		14" (35.6cm)



MAYO-HEGAR Needle Holder

Satin	Matte	
121-135	123-135	6" (15.2cm)
121-140	123-140	7" (17.8cm)
121-145	123-145	8" (20.3cm)
121-146		9" (22.8cm)
121-142		10" (25.4cm)
121-143		11" (28cm)
121-147		12" (30.5cm)
121-144		14" (35.6cm)

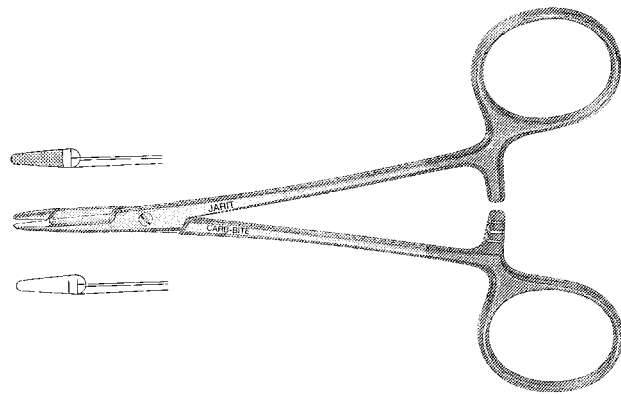


JARIT CARB-BITE NEEDLE HOLDERS

JARIT CARB-BITE Needle Holders feature jaw inserts of solid tungsten carbide. Sharply defined serrations have been milled into these inserts to provide a secure hold on the suture needle.

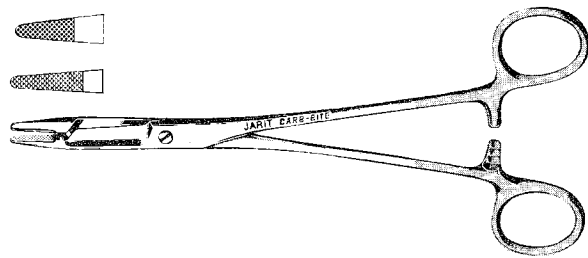
Because tungsten carbide is much harder than stainless steel, the useful life of CARB-BITE

Needle Holders greatly exceeds that of ordinary needle holders. JARIT CARB-BITE Needle Holders are guaranteed for a minimum of three years of normal usage. If jaw serrations should wear smooth while under guarantee, new CARB-BITE inserts will be installed without charge. Finger rings are gold plated for easy identification.



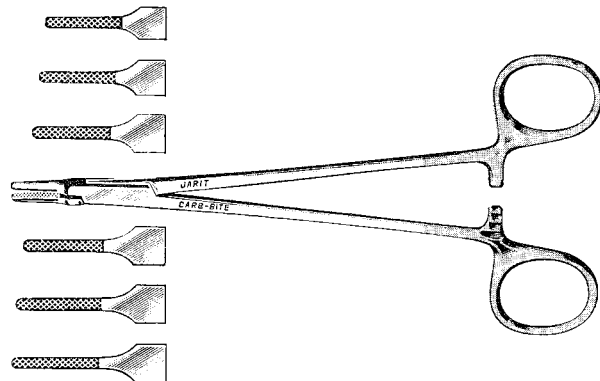
PETIT-POINT OLSEN-HEGAR Needle Holders,
5" (12.7cm), delicate

- 121-148 Serrated
- 121-149 Smooth



OLSEN-HEGAR Needle Holders

- 121-150 5½" (14cm)
- 121-155 6½" (16.5cm)



RYDER Needle Holders

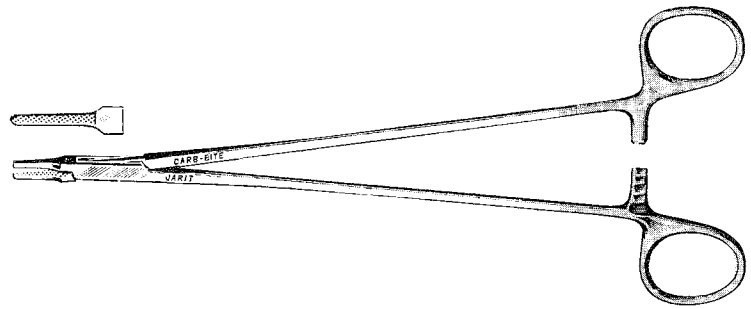
- 121-160 5" (12.7cm)
- 121-161 6" (15.2cm)
- 121-162 7" (17.8cm)
- 121-163 8" (20.3cm)
- 121-164 9" (22.8cm)
- 121-165 10" (25.4cm)

JARIT CARB-BITE NEEDLE HOLDERS

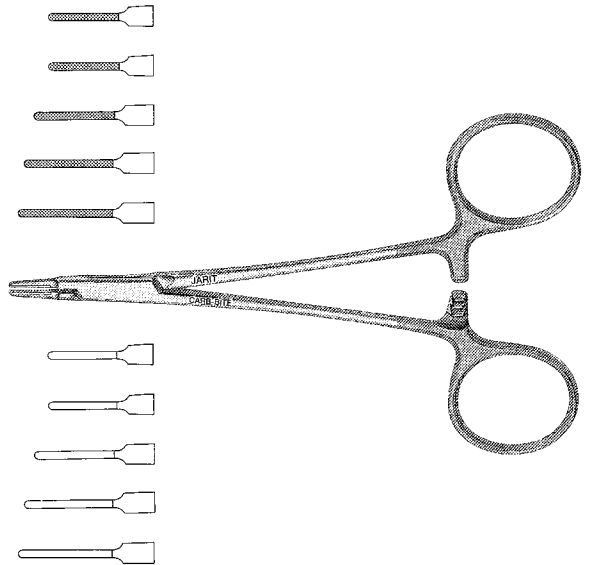
JARIT CARB-BITE Needle Holders feature jaw inserts of solid tungsten carbide. Sharply defined serrations have been milled into these inserts to provide a secure hold on the suture needle.

Because tungsten carbide is much harder than stainless steel, the useful life of CARB-BITE

Needle Holders greatly exceeds that of ordinary needle holders. JARIT CARB-BITE Needle Holders are guaranteed for a minimum of three years of normal usage. If jaw serrations should wear smooth while under guarantee, new CARB-BITE inserts will be installed without charge. Finger rings are gold plated for easy identification.

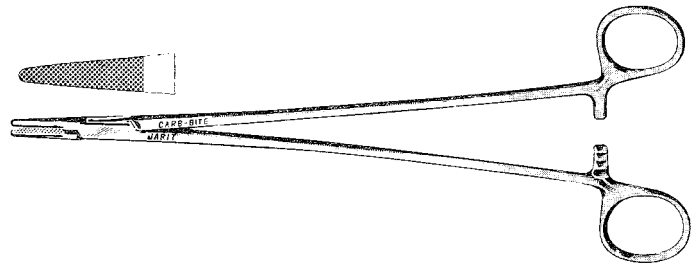


121-166 HUFNAGEL-RYDER Needle Holder, 9" (22.8cm)



PETIT-POINT RYDER Needle Holders, 1mm jaws

- 121-170** 5" (12.7cm), serrated
- 121-171** 5" (12.7cm), smooth
- 121-172** 6" (15.2cm), serrated
- 121-173** 6" (15.2cm), smooth
- 121-174** 7" (17.8cm), serrated
- 121-175** 7" (17.8cm), smooth
- 121-176** 8" (20.3cm), serrated
- 121-179** 8" (20.3cm), smooth
- 121-177** 9" (22.8cm), serrated
- 121-178** 9" (22.8cm), smooth



121-180 MASSON Needle Holder, 10½" (26.6cm)

JARIT CARB-BITE NEEDLE HOLDERS

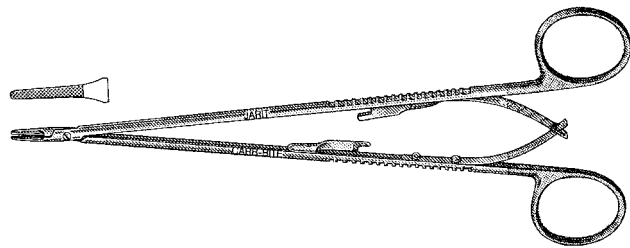
JARIT CARB-BITE Needle Holders feature jaw inserts of solid tungsten carbide. Sharply defined serrations have been milled into these inserts to provide a secure hold on the suture needle.

Because tungsten carbide is much harder than stainless steel, the useful life of CARB-BITE

Needle Holders greatly exceeds that of ordinary needle holders. JARIT CARB-BITE Needle Holders are guaranteed for a minimum of three years of normal usage. If jaw serrations should wear smooth while under guarantee, new CARB-BITE inserts will be installed without charge. Finger rings are gold plated for easy identification.

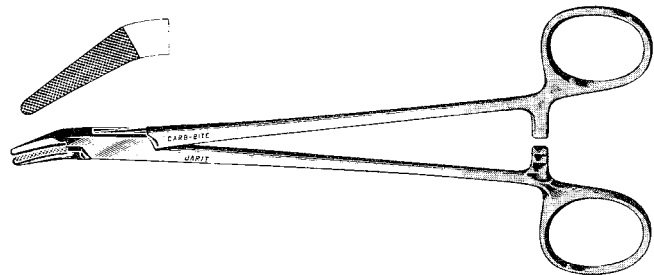
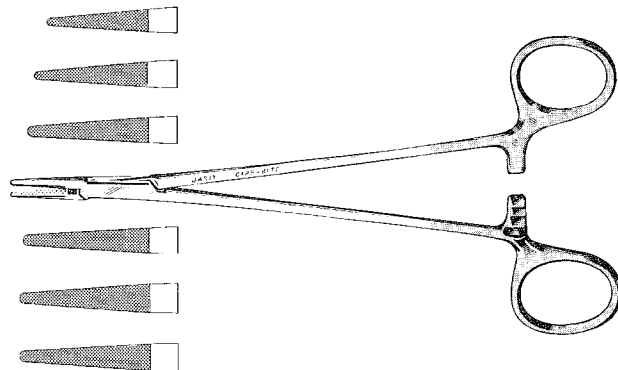
JARIT Microvascular Needle Holders

- 121-181** 7" (17.8cm)
- 121-182** 8" (20.3cm)
- 121-183** 9" (22.8cm)



DeBAKEY Vascular Needle Holders, extra light model

- 121-184** 6" (15.2cm)
- 121-185** 7" (17.8cm)
- 121-186** 8" (20.3cm)
- 121-187** 9" (22.8cm)
- 121-188** 10½" (26.6cm)
- 121-189** 12" (30.5cm)



- 121-192 FINOCHIETTO Needle Holder, 10½" (26.6cm)**

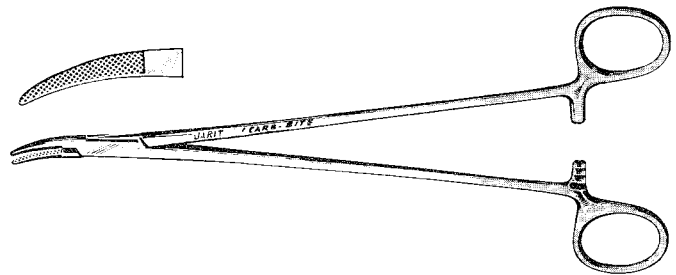
JARIT CARB-BITE NEEDLE HOLDERS

JARIT CARB-BITE Needle Holders feature jaw inserts of solid tungsten carbide. Sharply defined serrations have been milled into these inserts to provide a secure hold on the suture needle.

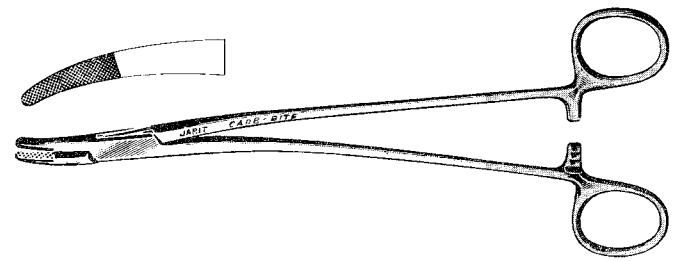
Because tungsten carbide is much harder than stainless steel, the useful life of CARB-BITE

Needle Holders greatly exceeds that of ordinary needle holders. JARIT CARB-BITE Needle Holders are guaranteed for a minimum of three years of normal usage. If jaw serrations should wear smooth while under guarantee, new CARB-BITE inserts will be installed without charge. Finger rings are gold plated for easy identification.

121-193 DeBAKEY Needle Holder, 9" (22.8cm), curved, extra light model

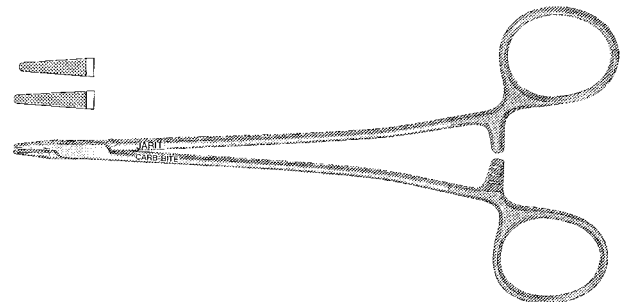


121-195 STRATTE Needle Holder, 9" (22.8cm), double curved



PETIT-POINT SAROT Needle Holders, delicate

- 121-197** 6" (15.2cm)
- 121-198** 6 3/4" (16.8cm)

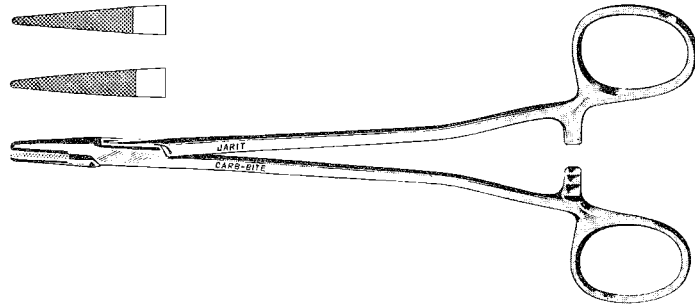


JARIT CARB-BITE NEEDLE HOLDERS

JARIT CARB-BITE Needle Holders feature jaw inserts of solid tungsten carbide. Sharply defined serrations have been milled into these inserts to provide a secure hold on the suture needle.

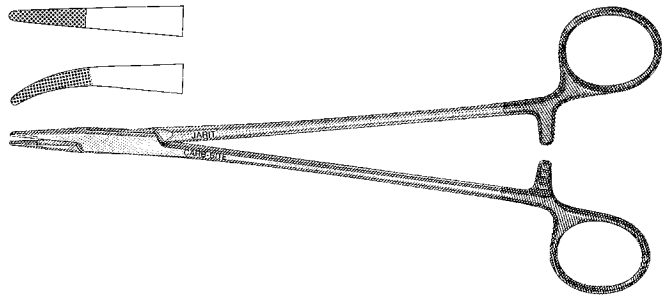
Because tungsten carbide is much harder than stainless steel, the useful life of CARB-BITE

Needle Holders greatly exceeds that of ordinary needle holders. JARIT CARB-BITE Needle Holders are guaranteed for a minimum of three years of normal usage. If jaw serrations should wear smooth while under guarantee, new CARB-BITE inserts will be installed without charge. Finger rings are gold plated for easy identification.



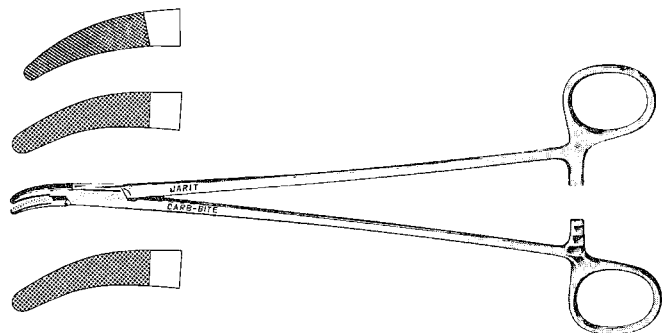
SAROT Needle Holders

- 121-200 7 $\frac{1}{2}$ " (18.1cm)
- 121-205 10 $\frac{1}{2}$ " (25.7cm)



JULIAN Needle Holders, 8 $\frac{1}{4}$ " (21cm)

- 121-206 Straight
- 121-207 Curved



HEANEY Needle Holders, curved

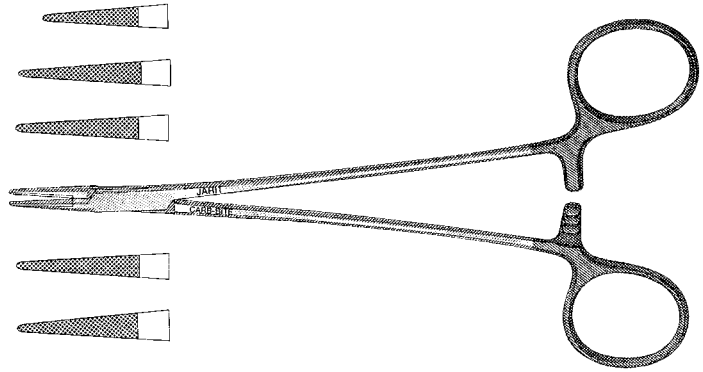
- 121-210 8 $\frac{1}{4}$ " (21cm)
- 121-209 10" (25.4cm)
- 121-204 12" (30.5cm)

For a complete listing of all Bariatric Surgery Instruments see pages 632-647.

JARIT CARB-BITE NEEDLE HOLDERS

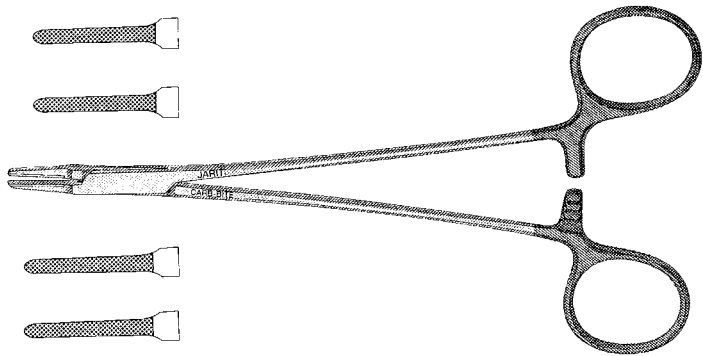
JARIT Vascular Needle Holders,
light weight model, slender jaws

- 121-211** 6" (15.2cm)
- 121-212** 7¼" (18.4cm)
- 121-213** 8" (20.3cm)
- 121-214** 9" (22.8cm)
- 121-215** 10" (25.4cm)

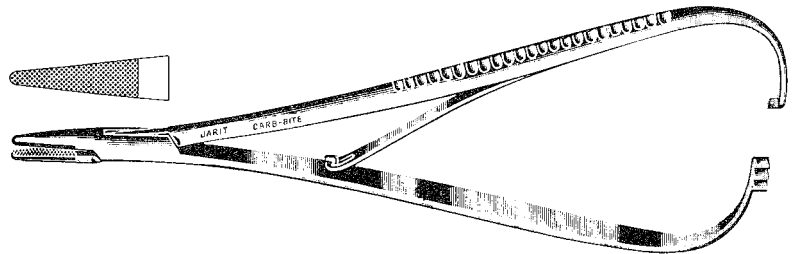


JARIT Intracardiac Needle Holders

- 121-216** 7" (17.8cm)
- 121-217** 8" (20.3cm)
- 121-218** 9" (22.9cm)
- 121-219** 10¼" (26cm)

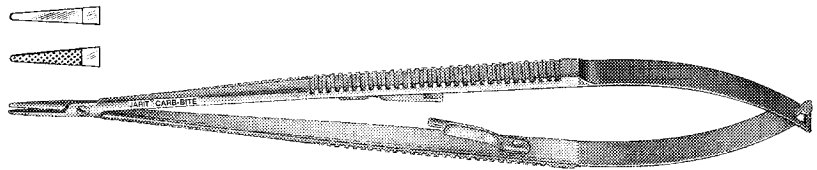


- 121-220** **MATHIEU** Needle Holder,
8" (20.3cm)



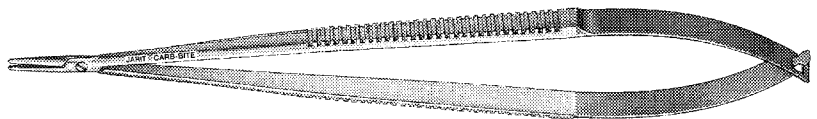
JARIT Microsurgical Needle Holders
With Lock

- 121-228** 7" (17.8cm), smooth jaws
- 121-229** 7" (17.8cm), serrated jaws
- 121-230** 8½" (21.6cm), smooth jaws
- 121-231** 8½" (21.6cm), serrated jaws



Without Lock

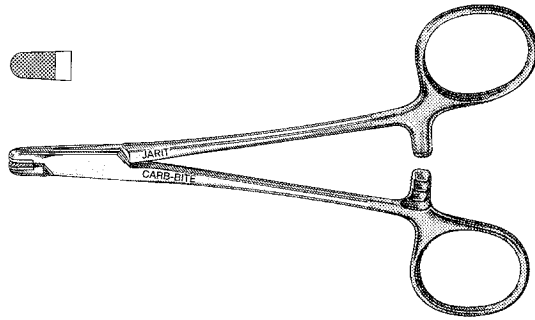
- 121-228NL** 7" (17.8cm), smooth jaws
- 121-229NL** 7" (17.8cm), serrated jaws
- 121-230NL** 8½" (21.6cm), smooth jaws
- 121-231NL** 8½" (21.6cm), serrated jaws



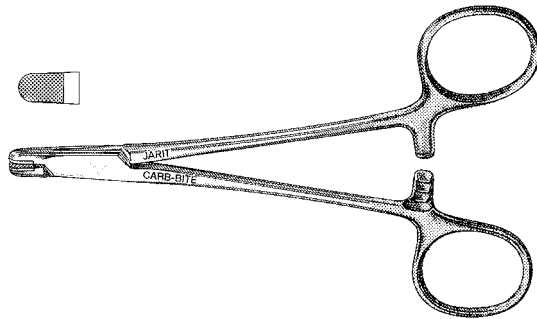


CARB-BITE NEEDLE HOLDERS AND WIRE TWISTERS

121-250 JARIT Sternal Needle Holder and Wire Twisters,
CARB-BITE jaws
5" (12.7cm)

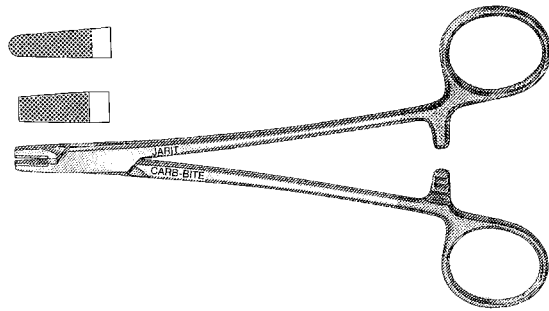


121-255 JARIT Sternal Needle Holder and Wire Twister,
7" (17.8cm)

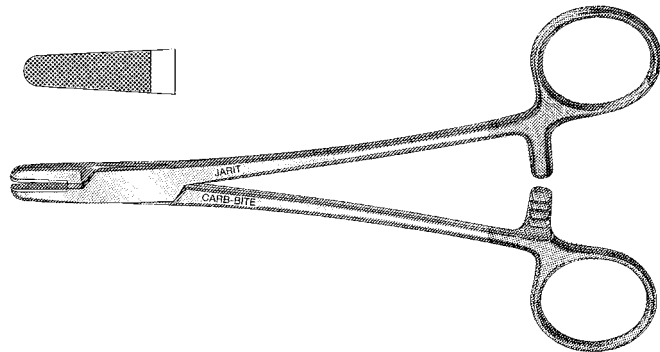


JARIT Wire Twister,
6" (15.2cm)

121-257 Short delicate jaws
121-258 Short blunt jaws



121-260 JARIT Sternal Needle Holder and Wire Twister,
7 3/4" (19.7cm), heavy duty,
6mm wide jaws





CARB-BITE TISSUE AND NEEDLE FORCEPS

These versatile forceps feature tips with solid tungsten carbide inserts. Fine, sharply defined serrations have been milled into these inserts to

provide non-slip surfaces for grasping tissue and suture needles. Handles are gold plated for easy identification.

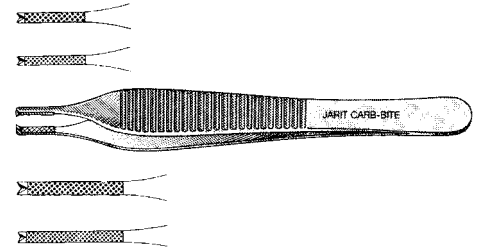
ADSON Needle Forceps,
1 x 2 teeth

122-500 4 3/4" (12.1cm)

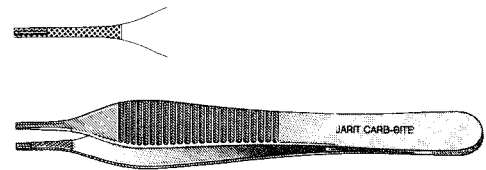
122-501 4 3/4" (12.1cm), delicate

122-502 6" (15.2cm)

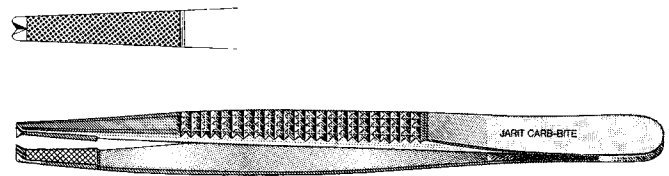
122-503 6" (15.2cm), delicate



122-510 BROWN-ADSON Needle Forceps,
4 3/4" (12.1cm), 3 x 4 teeth

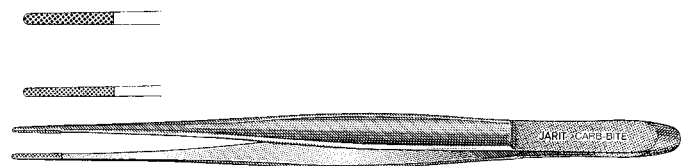


122-520 BONNEY Needle Forceps,
6 3/4" (17.1cm), 1 x 2 teeth



122-530 CUSHING Needle Forceps,
7" (17.8cm), Gutsch handle,
scraper end

122-535 Delicate





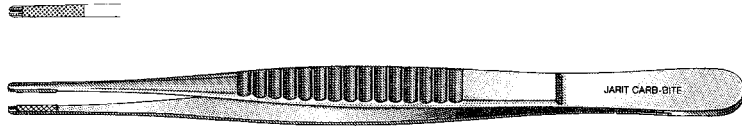
CARB-BITE TISSUE AND NEEDLE FORCEPS

These versatile forceps feature tips with solid tungsten carbide inserts. Fine, sharply defined serrations have been milled into these inserts to

provide non-slip surfaces for grasping tissue and suture needles. Handles are gold plated for easy identification.

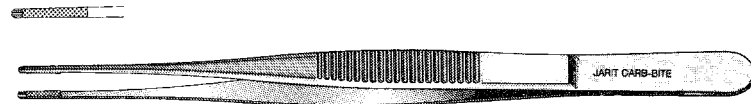
DeBAKEY Needle Forceps,
2 x 4 teeth, 2.0mm tips

- 122-540 6" (15.2cm)
- 122-542 7 3/4" (19.7cm)
- 122-544 9 1/2" (24.1cm)

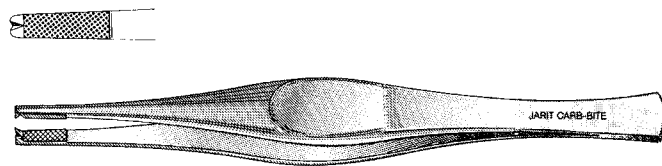


DeBAKEY Needle Forceps,
2 x 4 teeth, 1.5mm tips

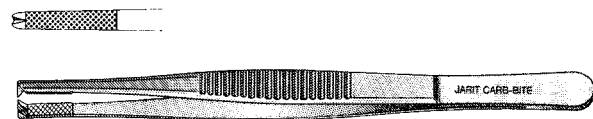
- 122-541 6" (15.2cm)
- 122-543 7 3/4" (19.7cm)
- 122-545 9 1/2" (24.1cm)



FERRIS-SMITH Needle Forceps,
6 3/4" (17.1cm), 1 x 2 teeth



JARIT Needle Forceps,
6 3/4" (16cm), 1 x 2 teeth



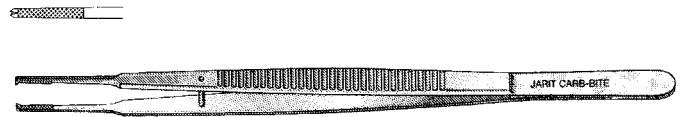


CARB-BITE TISSUE AND NEEDLE FORCEPS

These versatile forceps feature tips with solid tungsten carbide inserts. Fine, sharply defined serrations have been milled into these inserts to

provide non-slip surfaces for grasping tissue and suture needles. Handles are gold plated for easy identification.

122-570 GERALD Needle Forceps,
7" (17.8cm), 1 x 2 teeth, delicate



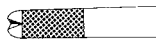
122-590 SEMKEN Needle Forceps,
6" (15.2cm), 1 x 2 teeth



122-591 Delicate



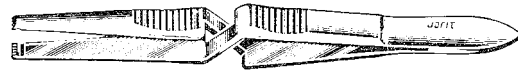
122-600 SKINNER Needle Forceps,
9" (22.8cm), 1 x 2 teeth



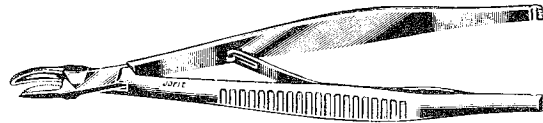
122-601 Delicate
122-602 Micro



125-100 HEGENBARTH Clip Applying Forceps,
5" (12.7cm)

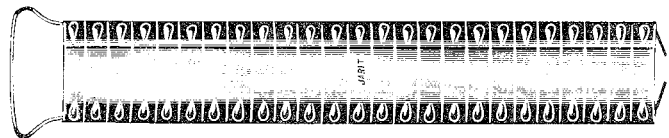


125-110 MICHEL Clip Applying/Removing Forceps,
5" (12.7cm), double ended

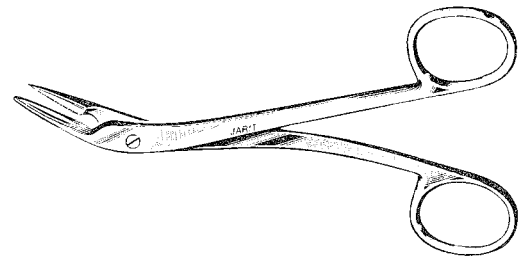


MICHEL Skin Clips,
package of 1000

- 125-114** 7.5mm
- 125-115** 11mm
- 125-117** 14mm
- 125-120** 16mm
- 125-122** 18mm



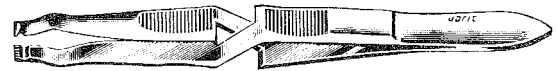
125-125 RICHTER-HEATH Clip Forceps,
5¼" (13.3cm)



125-130 WACHTENFELD Clip Forceps,
5" (12.7cm)

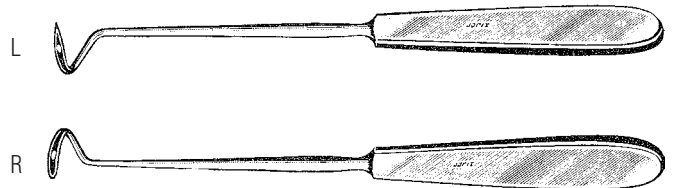


125-132 WACHTENFELD Clip Forceps,
5" (12.7cm), cross-action

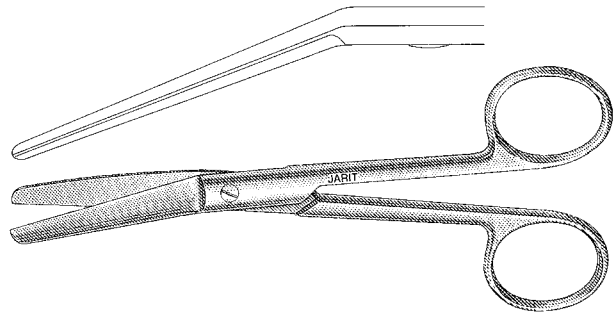


DESCHAMPS Ligature Carriers,
8" (20.3cm)

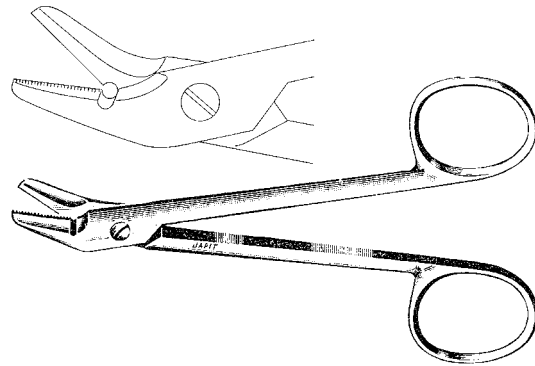
- 125-150** Sharp, left
- 125-152** Sharp, right
- 125-154** Blunt, left
- 125-155** Blunt, right



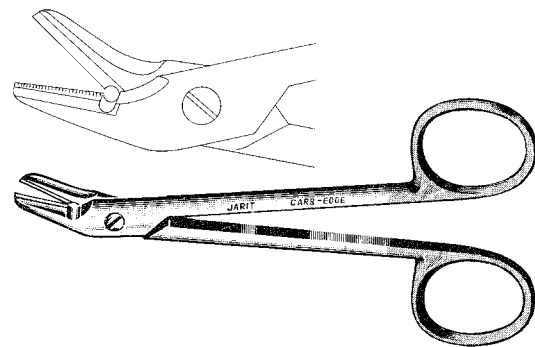
125-165 **NEW'S** Suture Scissors,
5½" (14cm), angled on flat



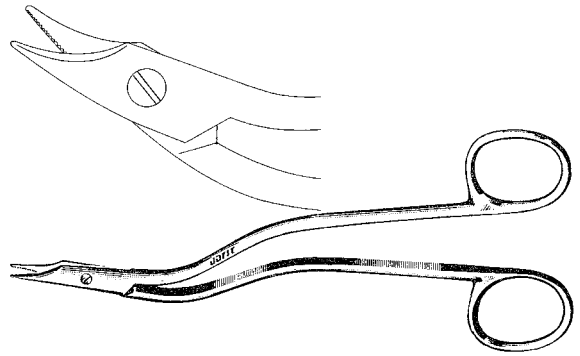
125-170 **WIRE** Suture Scissors,
4¾" (12.1cm), angled,
one serrated blade



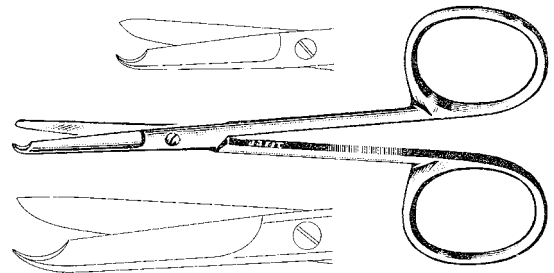
101-350 **WIRE** Suture Scissors,
4¾" (12.1cm), angled with CARB-EDGE blades,
for cutting suture and wire (26 gauge and smaller)



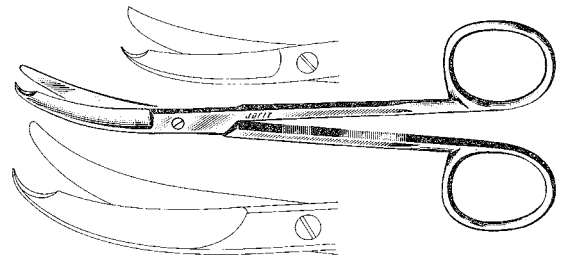
125-175 **HEATH** Suture Scissors,
6¼" (15.9cm), serrated



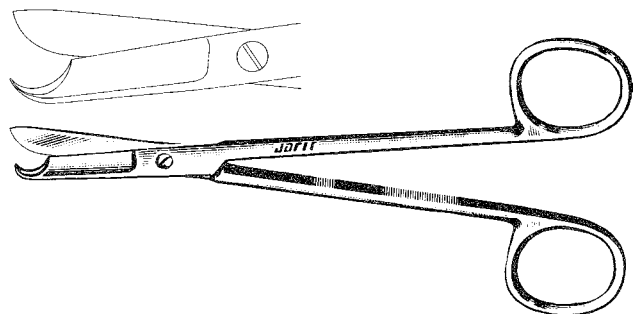
SPENCER Suture Scissors
125-180 3½" (8.9cm)
125-182 4¼" (12.1cm)



SPENCER Suture Scissors,
curved sideways
125-184 3½" (8.9cm)
125-185 4¼" (12.1cm)

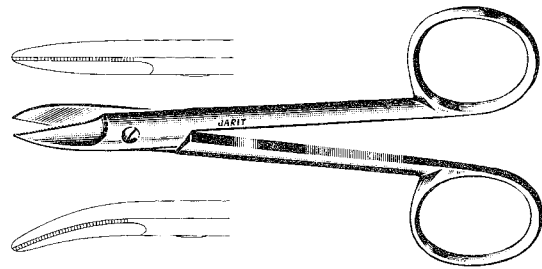


125-190 **LITTAUER** Stitch Scissors,
5½" (14cm)

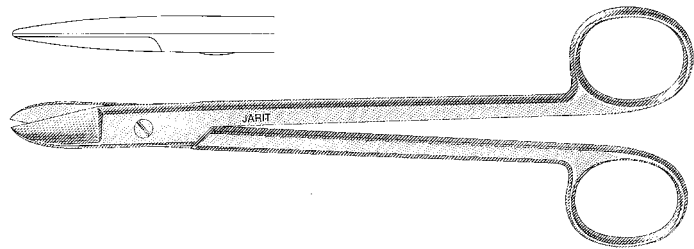


JARIT Suture Wire Scissors,
4" (10.1cm), serrated

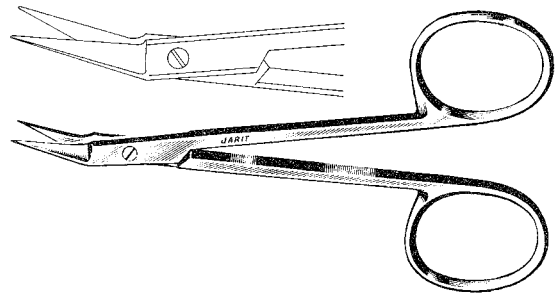
- 125-192 Straight
- 125-193 Curved



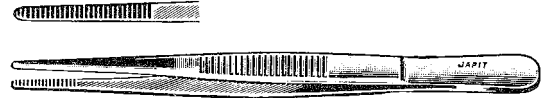
125-194 SMITH Wire Scissors,
6 1/4" (17.1cm)



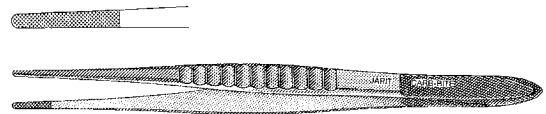
125-195 O'BRIEN Suture Scissors,
3 3/4" (9.5cm), angled



		THUMB Forceps, serrated	
Matte	Mirror		
130-099		4" (10.1cm)	
130-100		4½" (11.4cm)	
130-101		4½" (11.4cm), fluted handles	
130-105		5" (12.7cm)	
130-110	129-110	5½" (14cm)	
130-111		5½" (14cm), fluted handles	
130-115	129-115	6" (15.2cm)	
130-116		6" (15.2cm), fluted handles	
130-117		7" (17.8cm)	
130-120		8" (20.3cm)	
130-125		10" (25.4cm)	
130-130		12" (30.5cm)	
130-132		14" (35.6cm)	



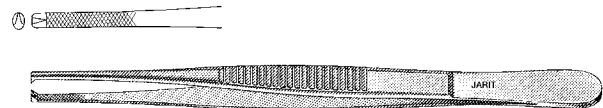
130-145 **TISSUE** Forceps,
6" (15.2cm), CARB-BITE tips



		TISSUE Forceps, 1 x 2 teeth	
Matte	Mirror		
130-150		4½" (11.4cm)	
130-151		4½" (11.4cm), fluted handles	
130-155		5" (12.7cm)	
130-160	129-160	5½" (14cm)	
130-161		5½" (14cm), fluted handles	
130-165	129-165	6" (15.2cm)	
130-166		6" (15.2cm), fluted handles	
130-167		7" (17.8cm)	
130-170		8" (20.3cm)	
130-175		10" (25.4cm)	
130-180		12" (30.5cm)	
130-182		14" (35.6cm)	

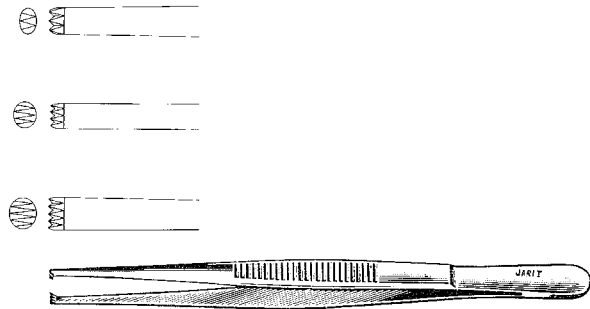


130-185 **TISSUE** Forceps,
6" (15.2cm), 1 x 2 teeth,
cross serrated

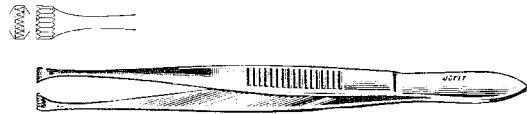


TISSUE Forceps

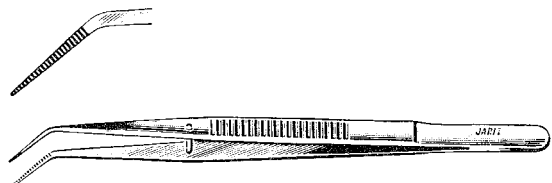
- 130-200** 5½" (14cm), 2 x 3 teeth
- 130-201** 6" (15.2cm), 2 x 3 teeth
- 130-210** 5½" (14cm), 3 x 4 teeth
- 130-211** 6" (15.2cm), 3 x 4 teeth
- 130-216** 5½" (14cm), 4 x 5 teeth
- 130-217** 6" (15.2cm), 4 x 5 teeth



- 130-220** **VON GRAEFE** Tissue Forceps,
4½" (11.4cm)



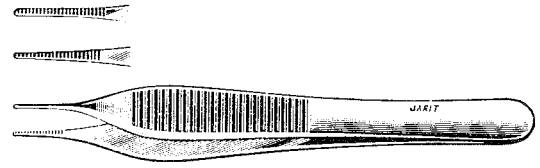
- 130-225** **COLLEGE PLIERS #317**,
6" (15.2cm), serrated



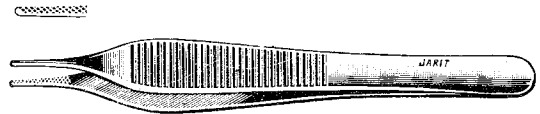
ADSON Dressing Forceps,
serrated

Matte Mirror

130-230 **129-230** 4 3/4" (12.1cm)
130-231 4 3/4" (12.1cm), extra delicate, 0.8mm wide tip



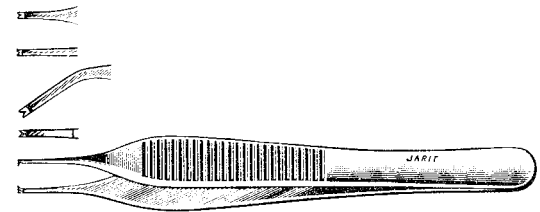
130-232 **ADSON** Dressing Forceps,
4 3/4" (12.1cm), cross serrated



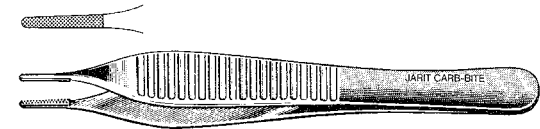
ADSON Tissue Forceps,
1 x 2 teeth

Matte Mirror

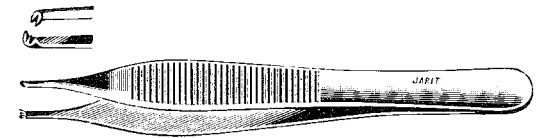
130-234 **129-234** 4 3/4" (12.1cm)
130-235 4 3/4" (12.1cm), extra delicate, 0.8mm wide tip
130-237 4 3/4" (12.1cm), angled
130-238 4 3/4" (12.1cm), with tying platform



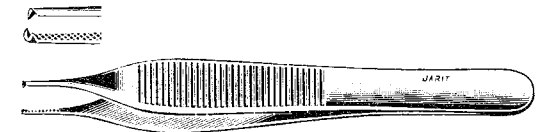
130-236 **ADSON** Tissue Forceps,
4 3/4" (12.1cm), CARB-BITE tips



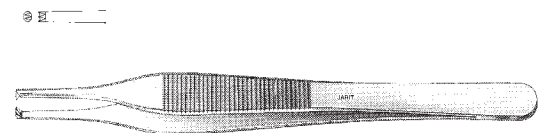
130-240 **ADSON** Tissue Forceps,
4 3/4" (12.1cm), 2 x 3 teeth



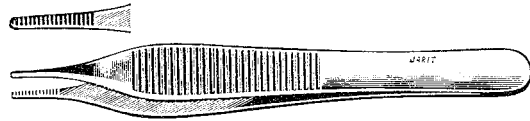
130-245 **ADSON** Tissue Forceps,
4 3/4" (12.1cm), 1 x 2 teeth, serrated



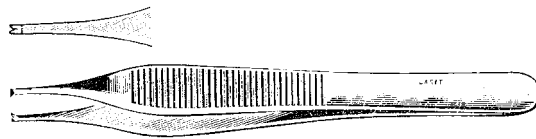
130-241 **ADSON** Tissue Forceps, delicate
7" (17.8cm), 1 x 2 teeth, 3mm wide tip



130-250 EWALD (HUDSON) Dressing Forceps,
4 3/4" (12.1 cm), serrated



130-255 EWALD (HUDSON) Tissue Forceps,
4 3/4" (12.1cm), 1 x 2 teeth

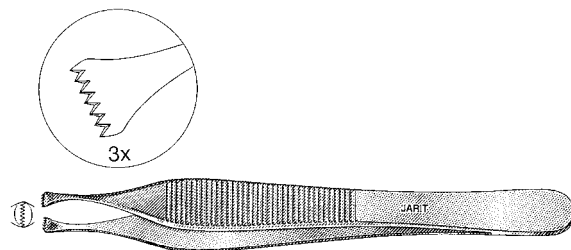


BROWN-ADSON Tissue Forceps,
4 3/4" (12.1cm), 9 x 9 teeth

Satin Mirror
130-260 129-260



130-262 BEASLEY-BABCOCK Tissue Forceps,
5" (12.7cm), 6 x 7 teeth

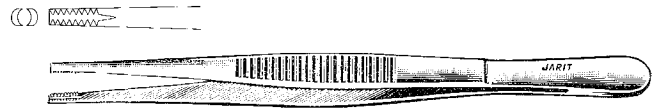




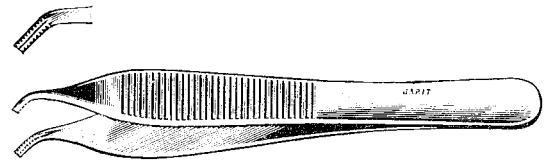
DRESSING AND TISSUE FORCEPS

BROWN Tissue Forceps,
8 x 8 teeth

- 130-265** 6" (15.2cm)
- 130-266** 8" (20.3cm)
- 130-267** 10" (25.4cm)



- 130-270** **BROWN-ADSON** Tissue Forceps,
4 1/4" (12.1cm), 9 x 9 teeth, angled



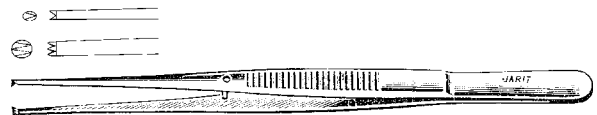
SEMKEN Dressing Forceps,
serrated

- 130-275** 4 1/4" (12.1cm)
- 130-276** 6" (15.2cm)



SEMKEN Tissue Forceps

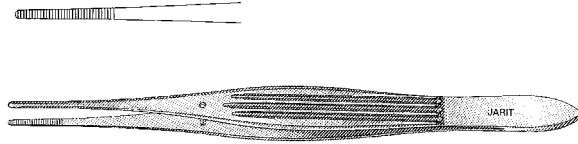
- 130-280** 4 1/4" (12.1cm), 1 x 2 teeth
- 130-281** 6" (15.2cm), 1 x 2 teeth
- 130-282** 4 1/4" (12.1cm), 2 x 3 teeth



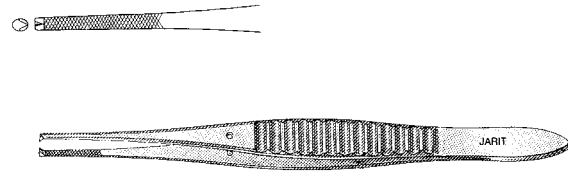


DRESSING AND TISSUE FORCEPS

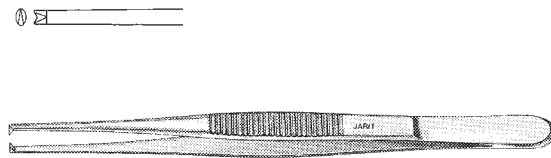
130-284 **McINDOE** Dressing Forceps,
6" (15.2cm), serrated



130-286 **GILLIES** Tissue Forceps,
6" (15.2cm), 1 x 2 teeth, cross-serrated

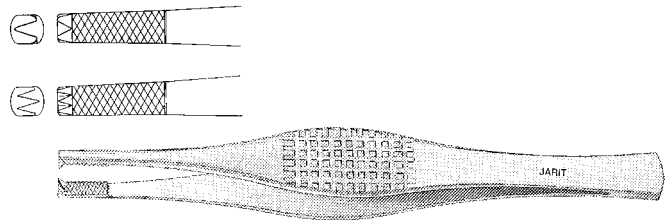


130-287 **BRIGHTAM** Tissue Forceps,
5 1/2" (14cm), 1 x 2 teeth, dissecting end
Tip width 2.2mm



FERRIS-SMITH Tissue Forceps,
6 3/4" (17.1cm)

- 130-289** 1 x 2 teeth
- 130-290** 2 x 3 teeth

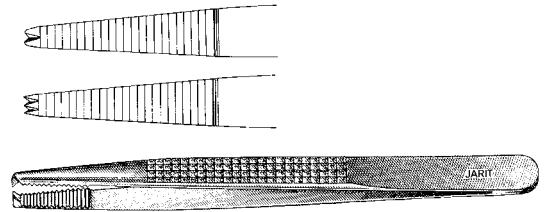




DRESSING AND TISSUE FORCEPS

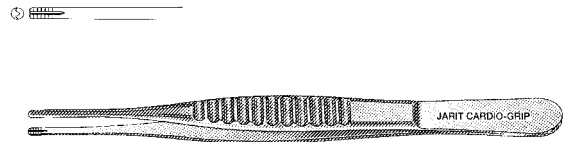
BONNEY Tissue Forceps,
6 $\frac{1}{2}$ " (17.1cm)

- 130-293** 1 x 2 teeth
- 130-294** 2 x 3 teeth

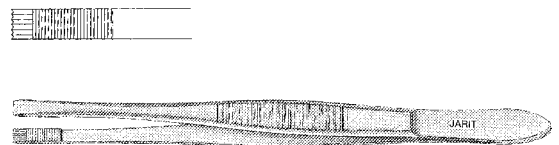


WHEELER-Type Plaque and Vessel Forceps,
CARDIO-GRIP serrations

- 130-296** 5 $\frac{1}{2}$ " (14cm)
- 130-297** 7 $\frac{1}{4}$ " (18.4cm)
- 130-298** 8 $\frac{3}{4}$ " (22.3cm)



- 130-300** **ALDERKREUTZ** Tissue Forceps,
6" (15.2cm), 6 x 6 teeth

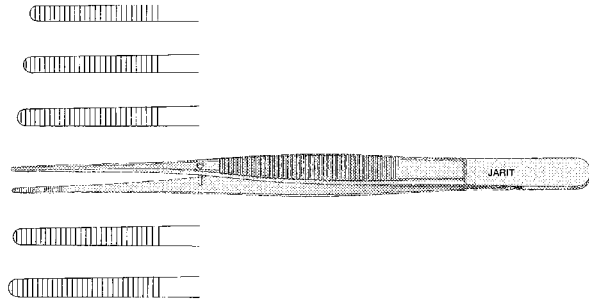




DRESSING AND TISSUE FORCEPS

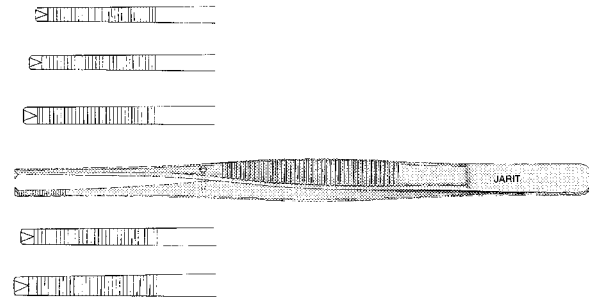
POTTS-SMITH Dressing Forceps, serrated

- 130-350** 7" (17.8cm)
- 130-355** 8 1/4" (21cm)
- 130-360** 9 1/2" (24.1cm)
- 130-367** 10 1/4" (26cm)
- 130-365** 12" (30.5cm)



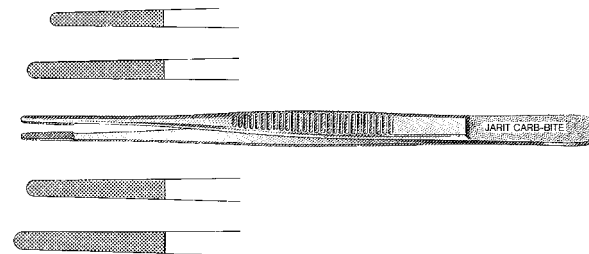
POTTS-SMITH Tissue Forceps, 1 x 2 teeth, serrated

- 130-352** 7" (17.8cm)
- 130-357** 8 1/4" (21cm)
- 130-362** 9 1/2" (24.1cm)
- 130-368** 10 1/4" (26cm)
- 130-366** 12" (30.5cm)



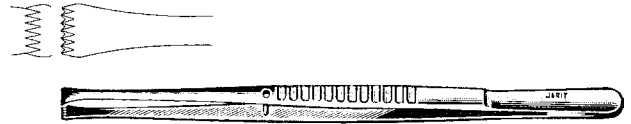
POTTS-SMITH Tissue Forceps, CARB-BITE tips

- 130-353** 7" (17.8cm)
- 130-358** 8 1/4" (21cm)
- 130-363** 9 1/2" (24.1cm)
- 130-369** 10 1/4" (26cm)

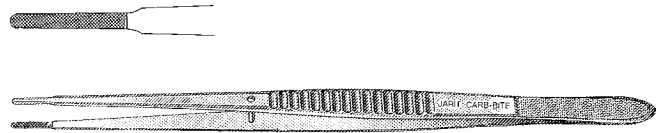


NELSON Tissue Forceps,
6 x 7 teeth

- 130-370** 6" (15.2cm)
- 130-375** 7" (17.8cm)
- 130-380** 9" (22.8cm)

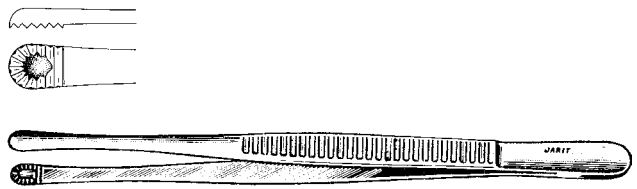


- 130-383** **EVANS** Tissue Forceps,
10" (25.4cm), CARB-BITE tips

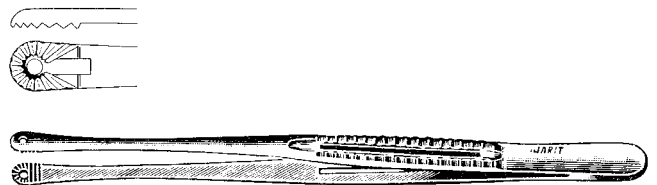


RUSSIAN Tissue Forceps

- | | | |
|----------------|----------------|--------------|
| Mirror | Matte | |
| 130-390 | 129-390 | 6" (15.2cm) |
| 130-392 | 129-392 | 8" (20.3cm) |
| 130-395 | 129-395 | 10" (25.4cm) |
| 130-394 | | 12" (30.5cm) |
| 130-396 | | 14" (35.6cm) |



- 130-397** **MAYO-RUSSIAN** Tissue Forceps,
9" (22.8cm)



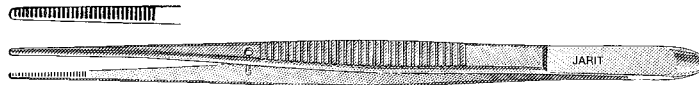
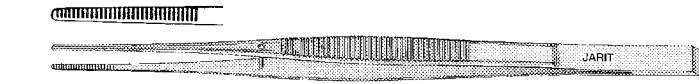


DRESSING AND TISSUE FORCEPS

CUSHING Dressing Forceps,
straight, serrated, scraper end

130-400 7" (17.8cm)

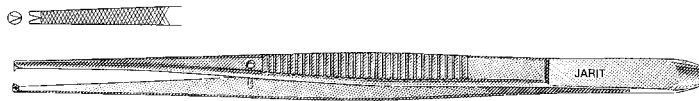
130-445 8" (20.3cm)



CUSHING Tissue Forceps,
straight, 1 x 2 teeth, scraper end

130-405 7" (17.8cm)

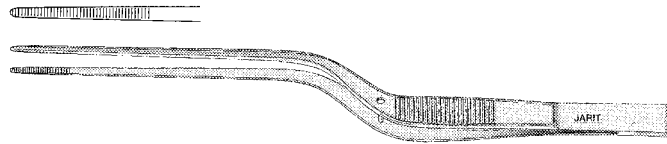
130-446 8" (20.3cm), cross serrated



CUSHING Dressing Forceps,
bayonet, serrated, scraper end

130-410 7 1/4" (18.4cm)

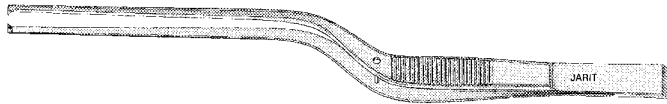
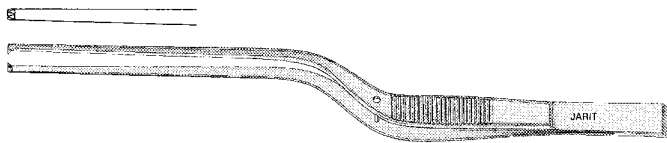
130-420 7 3/4" (19.7cm)



CUSHING Tissue Forceps,
bayonet, 1 x 2 teeth, scraper end

130-415 7 1/4" (18.4cm)

130-421 7 3/4" (19.7cm)

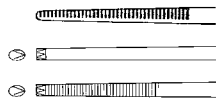


CUSHING Tissue Forceps,
7" (17.8cm), Gutsch handle, straight,
scraper end

130-425 Serrated

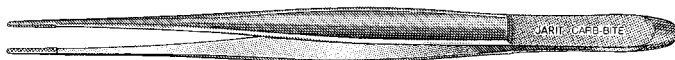
130-430 1 x 2 teeth

130-435 1 x 2 teeth, serrated



122-530 **CUSHING** Needle Forceps,
7" (17.8cm), straight, CARB-BITE tips,
Gutsch handle, scraper end

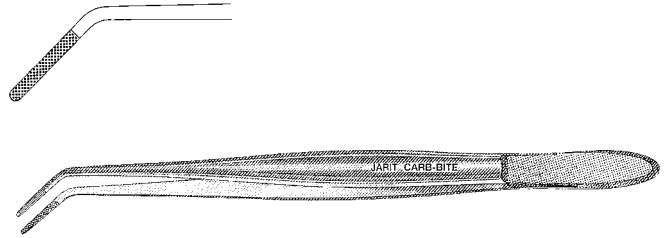
122-535 Delicate



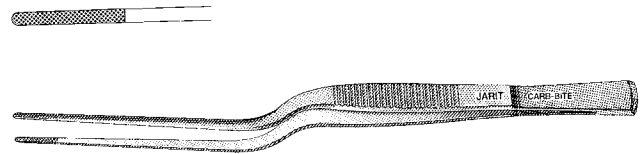


DRESSING AND TISSUE FORCEPS

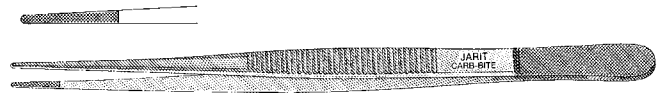
- 130-417 CUSHING** Tissue Forceps,
7" (17.8cm), angled, CARB-BITE tips,
Gutsch handle, scraper end



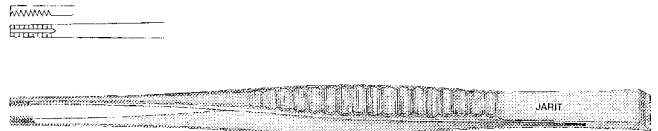
- 130-418 CUSHING** Tissue Forceps,
7 3/4" (19.7cm), bayonet,
CARB-BITE tips, scraper end



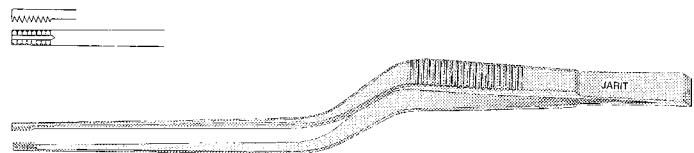
- 130-437 REUL** Coronary Tissue Forceps,
8" (20.3cm), delicate,
CARB-BITE tips, 1.8mm wide



- 130-440 CUSHING-BROWN** Tissue Forceps,
7" (17.8cm), straight, double row
of 9 x 9 delicate teeth, scraper end

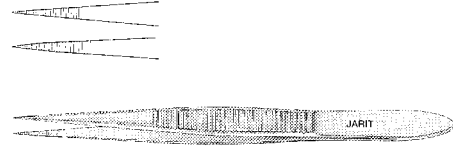


- 130-442 CUSHING-BROWN** Tissue Forceps,
7 1/4" (18.4cm), bayonet, double row
of 9 x 9 delicate teeth, scraper end



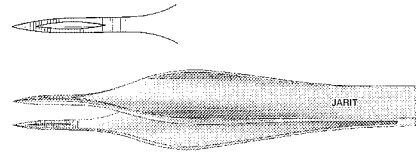
PLAIN Splinter Forceps

- 130-500** 3½" (8.9cm)
- 130-505** 4½" (11.4cm)



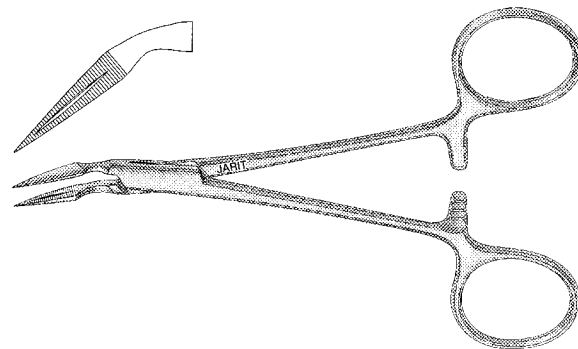
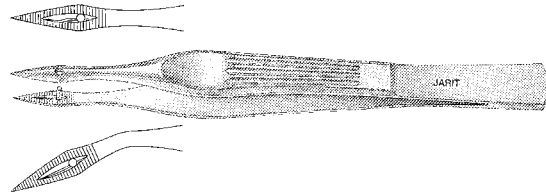
FEILCHENFELD Splinter Forceps

- 130-510** 3" (7.6cm)
- 130-515** 4½" (11.4cm)

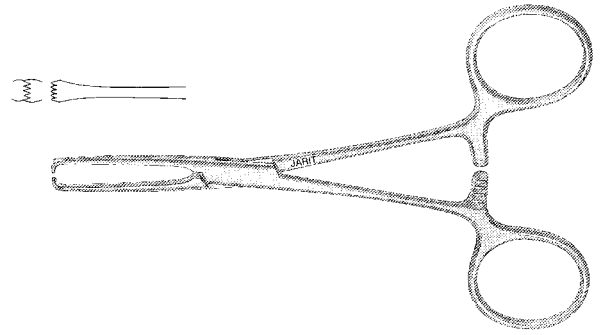


CARMALT Splinter Forceps,
4¼" (10.8cm)

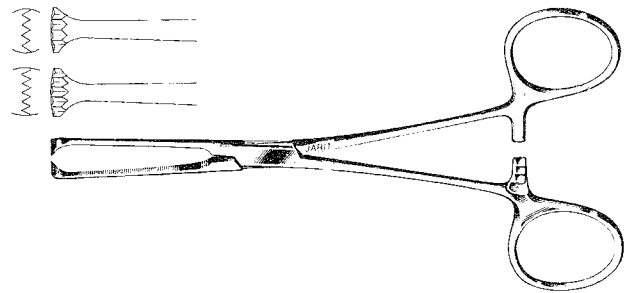
- 130-520** Straight
- 130-525** Angled



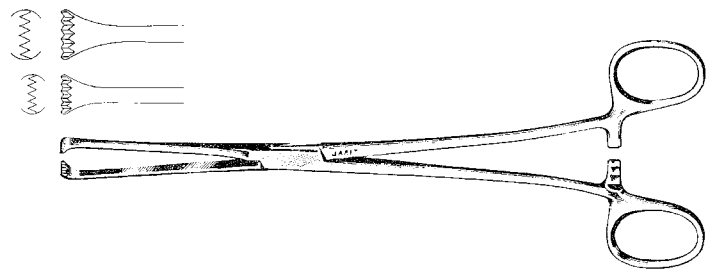
- 130-535** **WILLIAMS** Splinter Forceps,
5½" (14cm), angled



135-095 PETIT-POINT ALLIS Tissue Forceps,
5¼" (13.3cm), 4 x 5 teeth

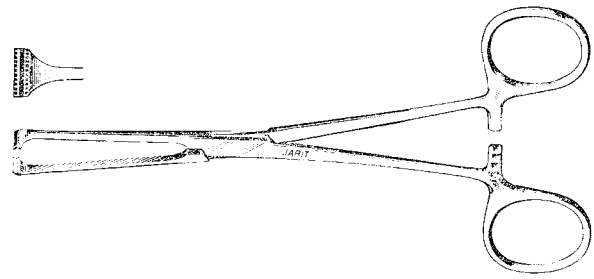


ALLIS Tissue Forceps,
6" (15.2cm)
Mirror Matte
135-100 136-100 4 x 5 teeth
135-105 136-105 5 x 6 teeth

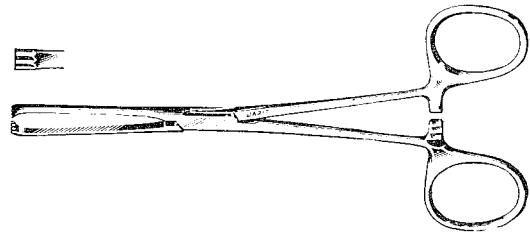


ALLIS Tissue Forceps,
7½" (19cm)
Mirror Matte
135-110 136-110 5 x 6 teeth
135-111 5 x 6 teeth, delicate

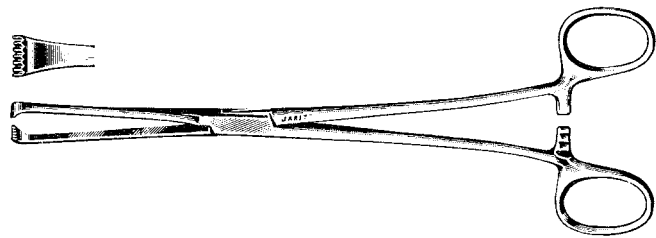
JARIT **INTESTINAL TISSUE FORCEPS**



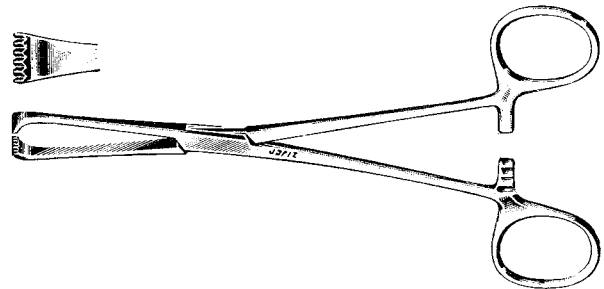
135-107 JARIT-ALLIS Tissue Forceps,
6¼" (16cm), 2 rows of fine, non-traumatic teeth



JUDD-ALLIS Tissue Forceps,
3 x 4 teeth
135-115 6" (15.2cm)
135-120 7½" (19cm)

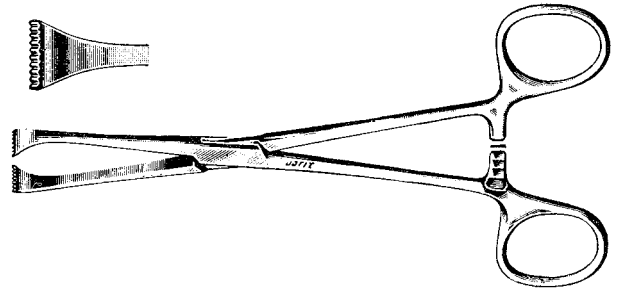


135-125 THOMS-ALLIS Tissue Forceps,
8" (20.3cm), 6 x 7 teeth

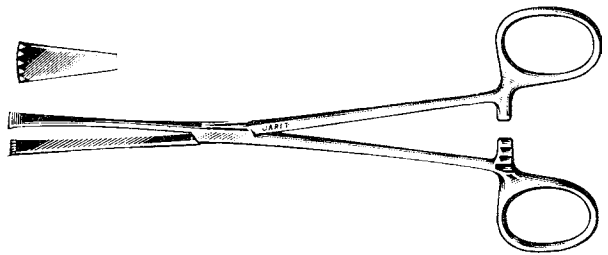


135-127 BOYS-ALLIS Tissue Forceps,
6¼" (16cm), 5 x 6 teeth

135-130 **ALLIS-ADAIR** Tissue Forceps,
6" (15.2cm), 9 x 10 teeth



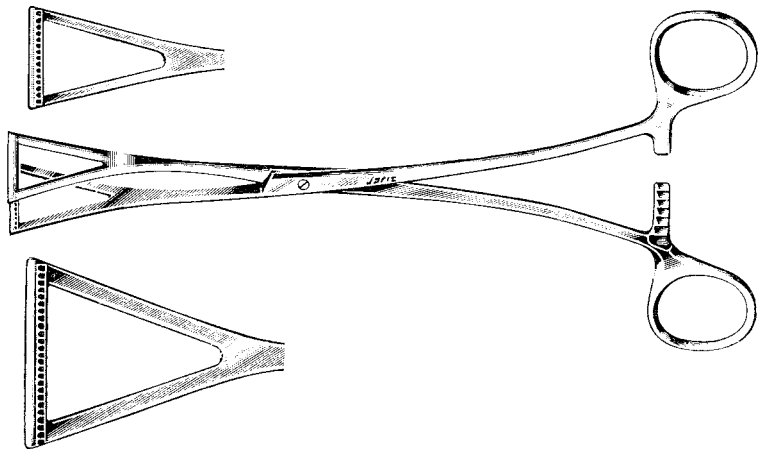
135-135 **LOCKWOOD-ALLIS** Tissue Forceps,
6 1/4" (16cm)



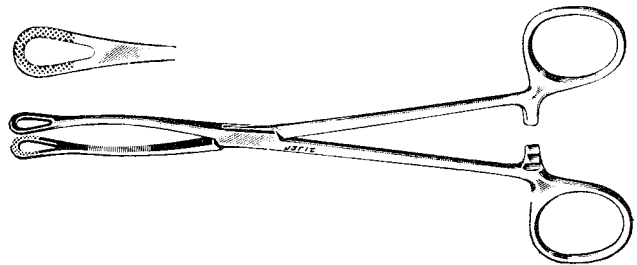
COLLINS Tissue Forceps,
7 3/4" (19.7cm)

135-150 Jaw width 1/2"

135-155 Jaw width 1"



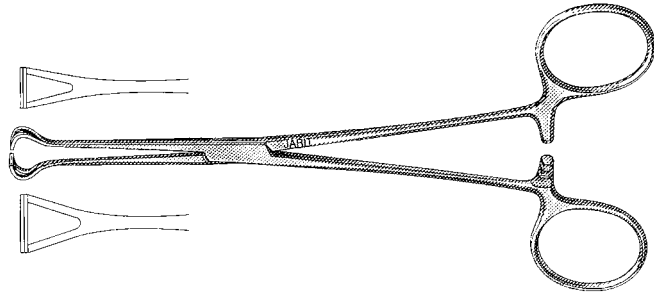
135-175 **WILLIAMS** Tissue Forceps,
6 1/2" (16.5cm)



JAPI **INTESTINAL TISSUE FORCEPS**

PETIT-POINT BABCOCK Tissue Forceps

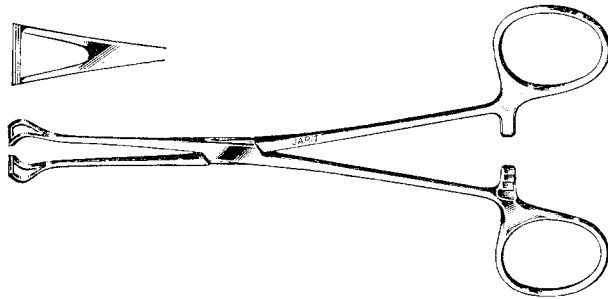
- 135-179** 5¼" (14.6cm), jaw width 6mm
- 135-180** 6¼" (16cm), jaw width 7.5mm



BABCOCK Tissue Forceps

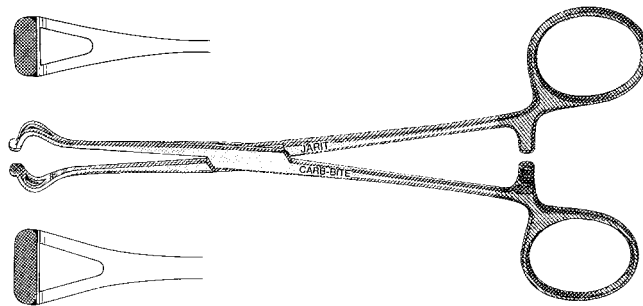
Mirror Matte

- 135-181** **136-181** 6¼" (16cm), jaw width 7.5mm
- 135-185** 7¼" (18.4cm), jaw width 11mm
- 135-190** **136-190** 8" (20.3cm), jaw width 11mm
- 135-195** 9½" (24.1cm), jaw width 11mm
- 135-196** 12" (30.5cm), jaw width 11mm
- 135-194** 14" (35.6cm), jaw width 11.3mm

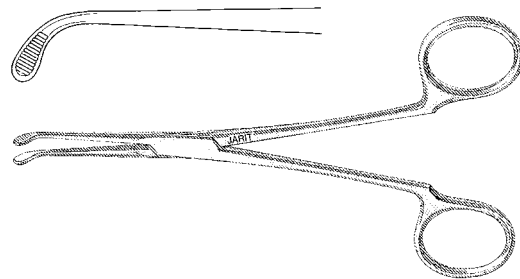


BABCOCK Tissue Forceps,
CARB-BITE tips

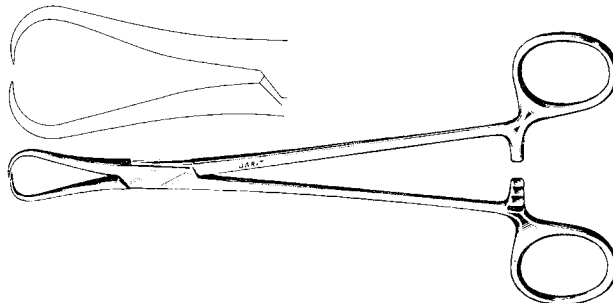
- 135-182** 6½" (16.5cm), jaw width 7.5mm
- 135-191** 8" (20.3cm), jaw width 11mm



- 135-615** **BENSON** Pylorus Spreader,
6¼" (16cm)

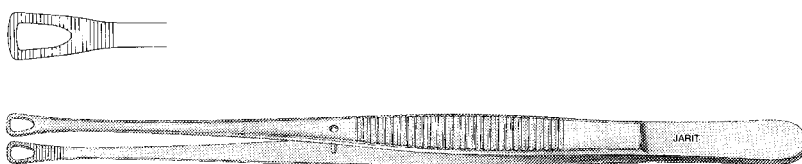


- 135-197** **ADAIR** Breast Clamp,
7¼" (18.4cm)



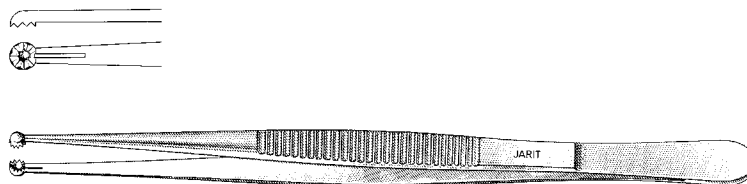
SINGLEY Tissue Forceps

- 135-250** 9" (22.8cm)
- 135-248** 14" (35.6cm)



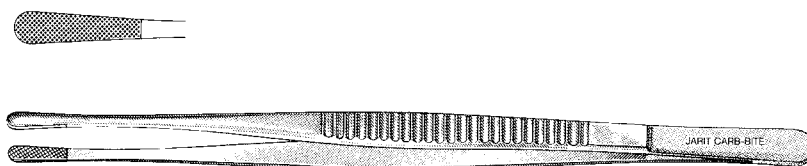
SELMAN Tissue Forceps,
round cup with teeth

- 135-252** 6" (15.2cm)
- 135-253** 8" (20.3cm)
- 135-254** 10" (25.4cm)

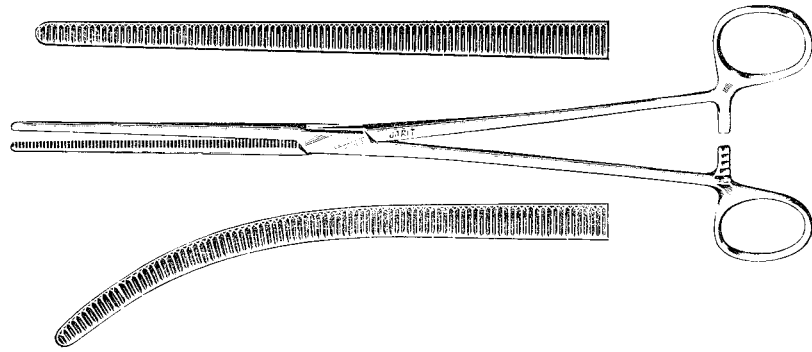


WANGENSTEEN Tissue Forceps,
CARB-BITE tips

- 135-256** 6" (15.2cm)
- 135-257** 9" (22.8cm)
- 135-258** 10" (25.4cm)

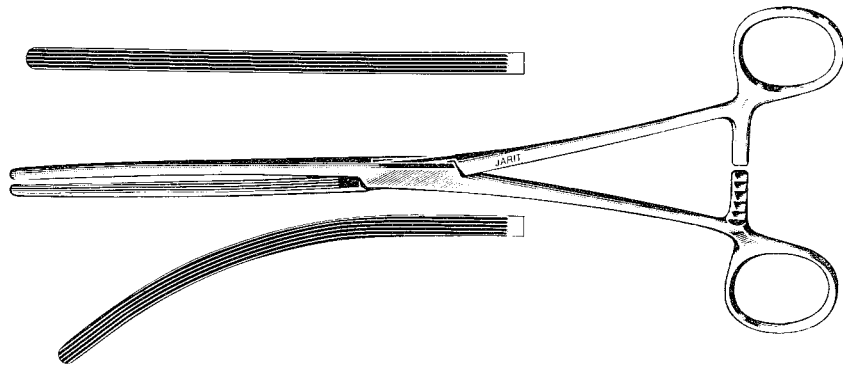


For a complete listing of all Bariatric Surgery Instruments see pages 632-647.



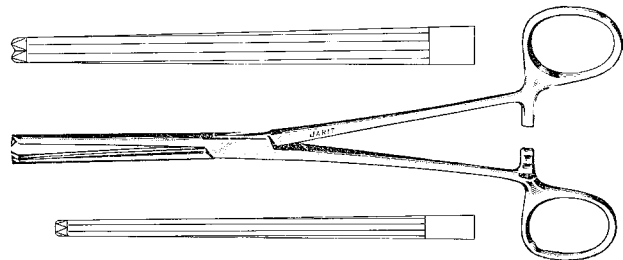
PEAN Forceps,
horizontal serrations

- 135-260** 10" (25.4cm), straight, jaw length 3½" (8.9cm)
- 135-261** 10" (25.4cm), curved, jaw length 3½" (8.9cm)
- 135-262** 11" (27.9cm), straight, jaw length 3½" (8.9cm)
- 135-265** 11" (27.9cm), curved, jaw length 3½" (8.9cm)
- 135-263** 12" (30.5cm), straight, jaw length 3½" (8.9cm)
- 135-266** 12" (30.5cm), curved, jaw length 3½" (8.9cm)
- 135-264** 14" (35.6cm), straight, jaw length 3½" (8.9cm)
- 135-267** 14" (35.6cm), curved, jaw length 3½" (8.9cm)



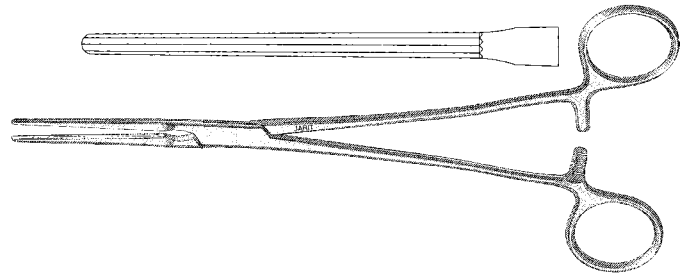
PEAN Forceps,
longitudinal serrations

- 135-270** 8" (20.3cm), straight, jaw length 2½" (6.3cm)
- 135-271** 8" (20.3cm), curved, jaw length 2½" (6cm)
- 135-275** 9" (22.9cm), straight, jaw length 3" (7.6cm)
- 135-276** 9" (22.9cm), curved, jaw length 2½" (7.3cm)
- 135-280** 10" (25.4cm), straight, jaw length 3½" (8.9cm)
- 135-281** 10" (25.4cm), curved, jaw length 3½" (8.6cm)

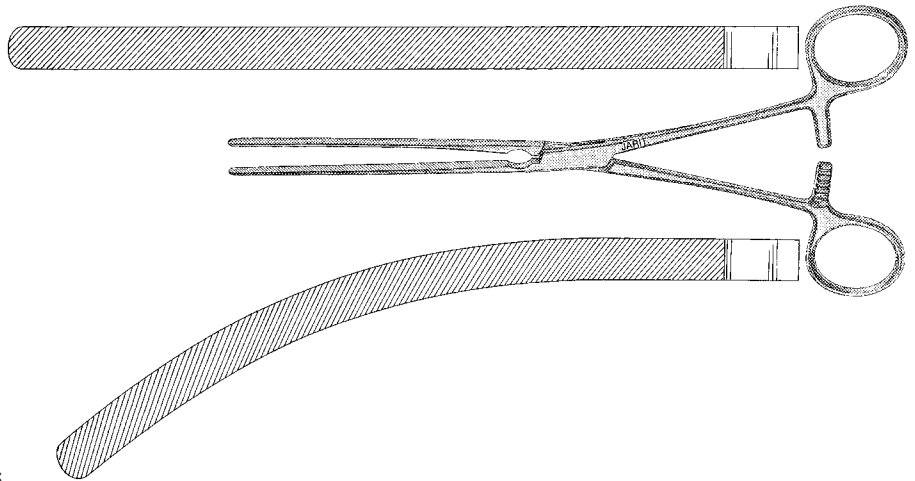


ALLEN Intestinal Clamps,
longitudinal serrations, 1 x 2 teeth

- 135-300** 8" (20.3cm), jaw length 2½" (6cm)
- 135-301** 6½" (16cm), jaw length 2½" (5.4cm), pediatric



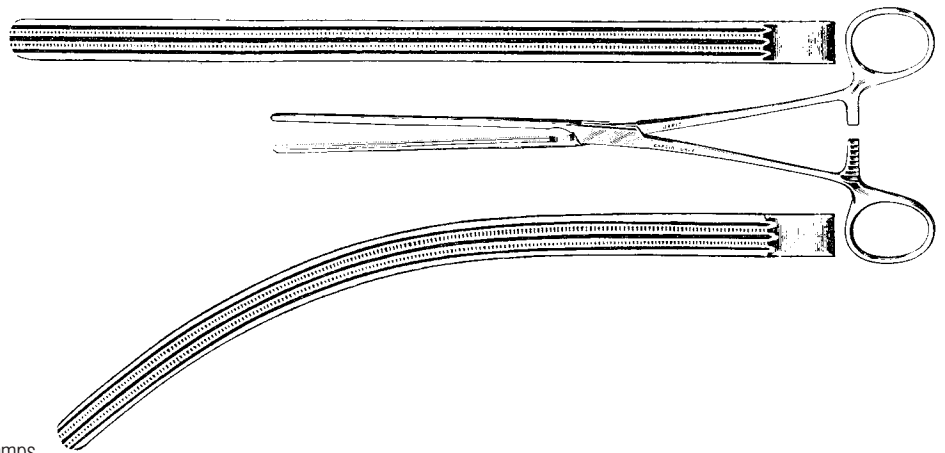
135-305 DENNIS Anastomosis Clamp,
9¼" (23.5cm), jaw length 2½" (5.2cm)



DOYEN Intestinal Clamps,
9" (22.9cm), jaw length 3¾" (9.5cm),
diagonal serrations

135-350 Straight

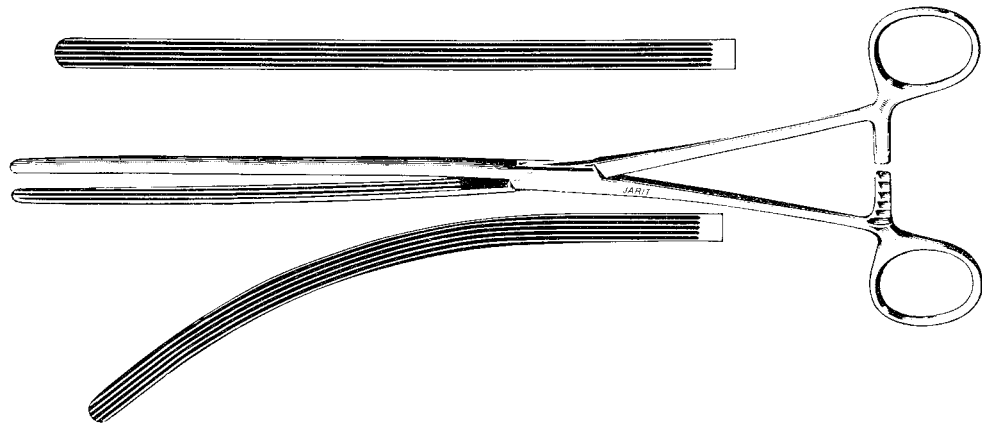
135-355 Curved



DOYEN Intestinal Clamps,
9" (22.9cm), jaw length 3¾" (9.8cm),
CARDIO-GRIP jaws

325-150 Straight

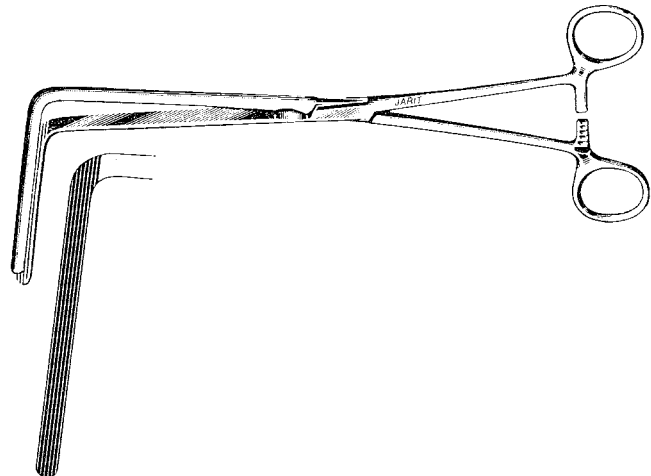
325-151 Curved



MAYO-ROBSON Intestinal Forceps,
jaw length 4 $\frac{1}{8}$ " (12.4cm), longitudinal serrations

135-370 9 $\frac{1}{4}$ " (24.8cm), straight

135-375 9 $\frac{1}{2}$ " (24.1cm), curved



135-400 FEHLAND Intestinal Clamp,
10" (25.4cm), jaw length 3 $\frac{1}{4}$ " (8.2cm)

STONE Intestinal Clamp,
with locking device

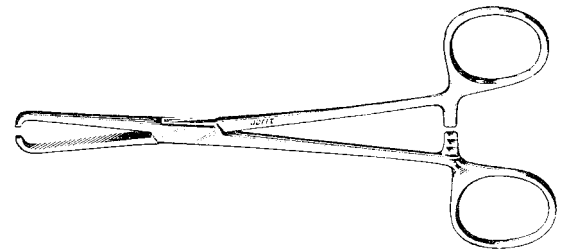
- 135-430** 3" (7.6cm)
- 135-435** 4" (10.2cm)



135-440 **STONE** Clamp Locking Device



135-445 **STONE** Clamp Applying Forceps,
6 1/4" (15.9cm)

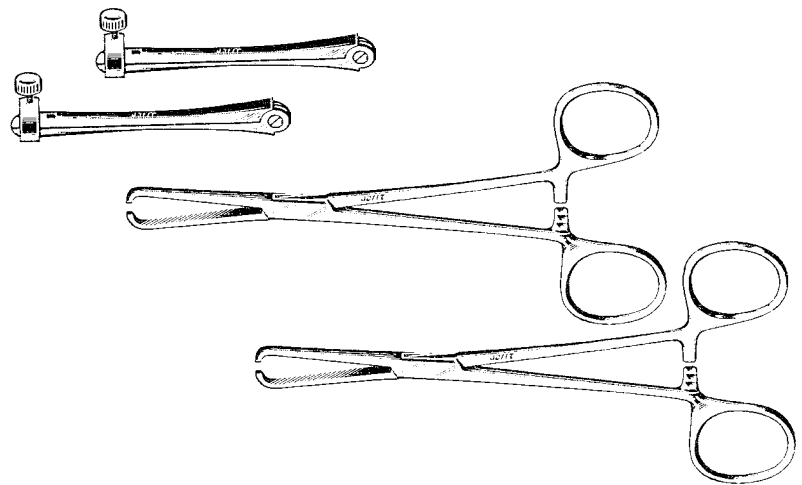


STONE Intestinal Clamp Set

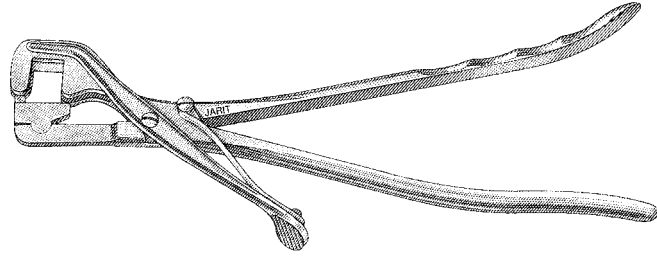
Includes:

- 2 applying forceps
- 2 intestinal clamps
- 2 locking devices

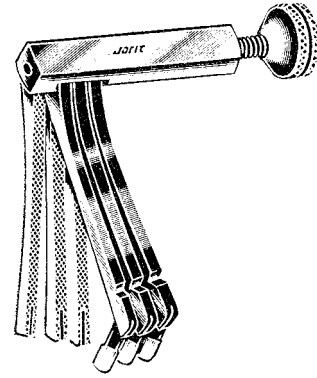
- 135-450** 3" (7.6cm) clamp set
- 135-451** 4" (10.2cm) clamp set



135-500 DEMARTEL-WOLFSON Closing Forceps,
9 $\frac{3}{4}$ " (24.8cm)



135-502 DEMARTEL-WOLFSON Clamp Holder,
3 $\frac{1}{4}$ " (8.3cm)

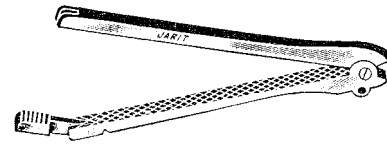


135-504 DEMARTEL-WOLFSON Clamp Holder,
9" (22.9cm)

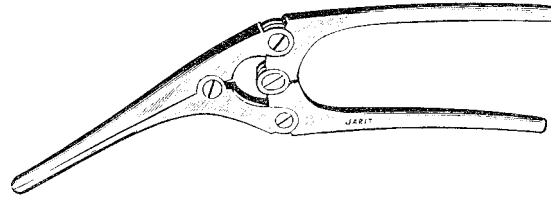


DEMARTEL-WOLFSON Clamps,
set of 3

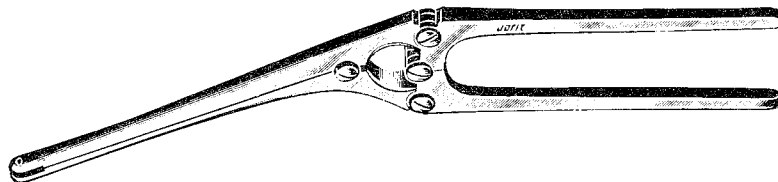
- 135-505** 2" (5.1cm)
- 135-506** 3" (7.6cm)
- 135-507** 4" (10.2cm)

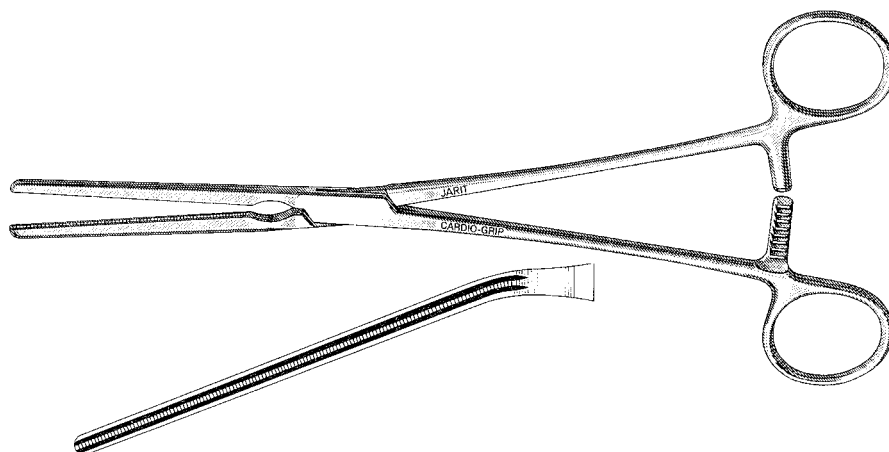


135-598 PAYR Pylorus Clamp,
6" (15.2cm), pediatric,
jaw length 2 $\frac{1}{4}$ " (5.4cm)



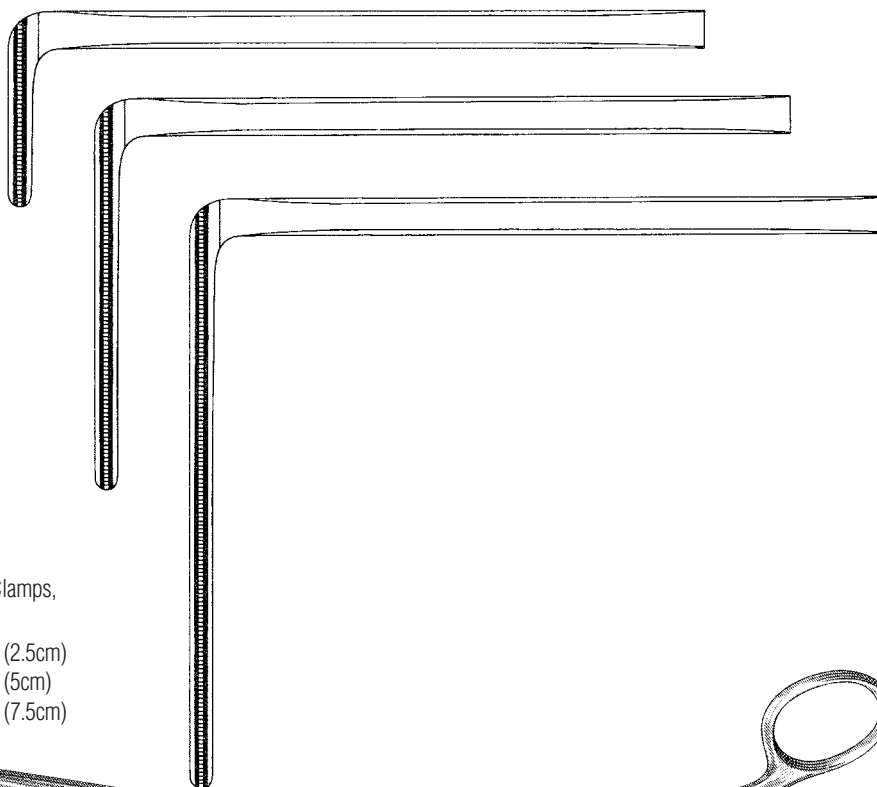
PAYR Pylorus Clamps
135-600 8" (20.3cm), jaw length 2 $\frac{3}{4}$ " (6cm)
135-605 11" (28cm), jaw length 4 $\frac{1}{4}$ " (10.8cm)





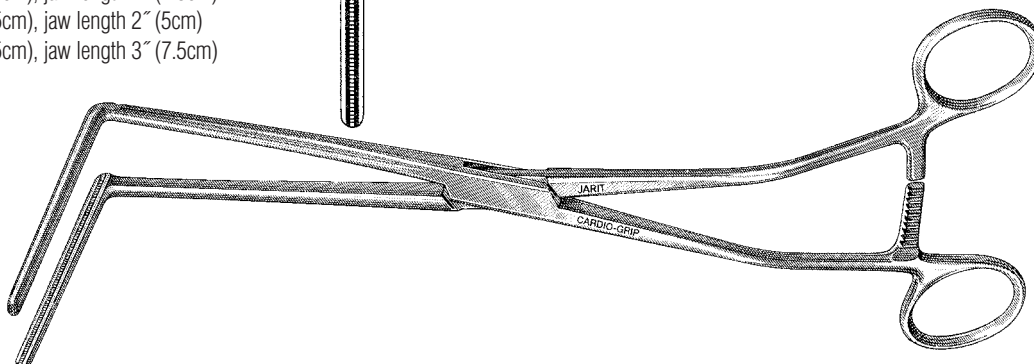
JARIT Intestinal Clamps,
CARDIO-GRIP jaws

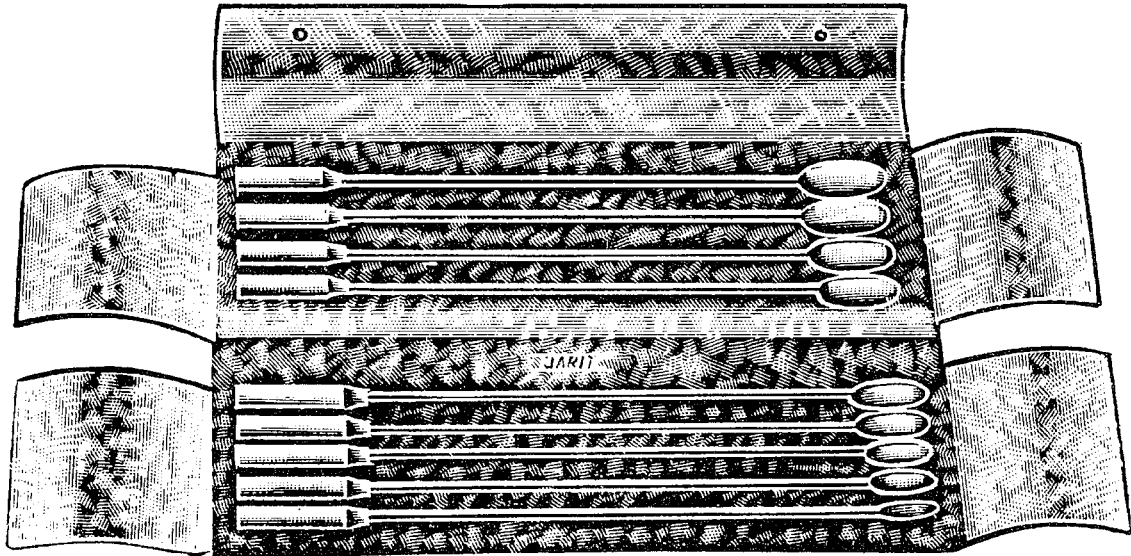
- 325-140** 9¼" (23.5cm) straight, jaw length 2¾" (7cm)
- 325-141** 9" (22.9cm) angled 25°, jaw length 3" (7.5cm)



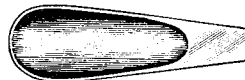
JARIT Anterior Resection Clamps,
CARDIO-GRIP jaws

- 325-142** 9¼" (23.5cm), jaw length 1" (2.5cm)
- 325-143** 9¼" (23.5cm), jaw length 2" (5cm)
- 325-144** 9¼" (23.5cm), jaw length 3" (7.5cm)





140-100 BAKES Common Duct Dilators,
8½" (21.6cm), set of 9

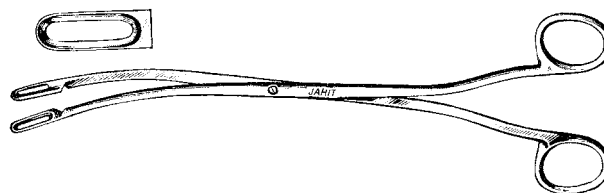


FERGUSON Gall Stone Scoops,
8½" (21.6cm), double-ended

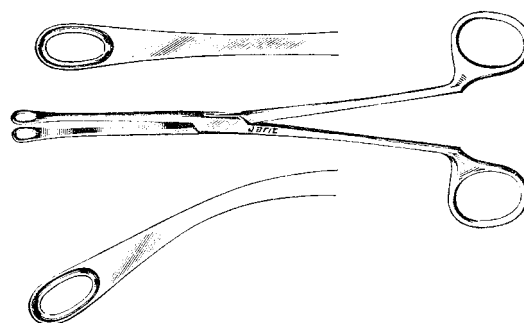
- 140-154** Small
- 140-155** Medium
- 140-156** Large



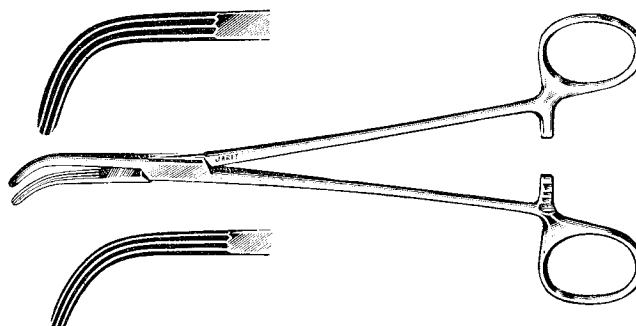
140-175 DESJARDIN Gall Stone Forceps,
9¼" (23.5cm)

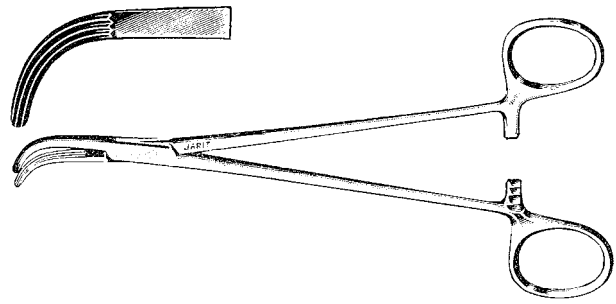


BLAKE Gall Stone Forceps,
8¾" (22.2cm)
140-190 Straight
140-192 Curved

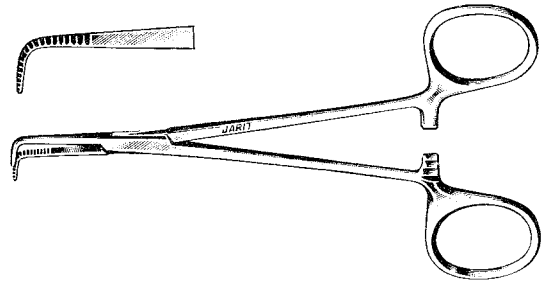


LAHEY Gall Duct Forceps
140-205 7½" (19.1cm)
140-206 7½" (19.1cm), delicate

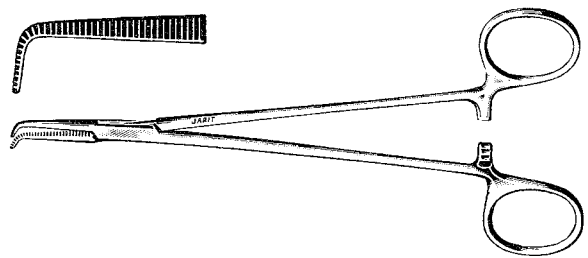




140-210 LOWER Gall Duct Forceps,
7½" (19.1cm)



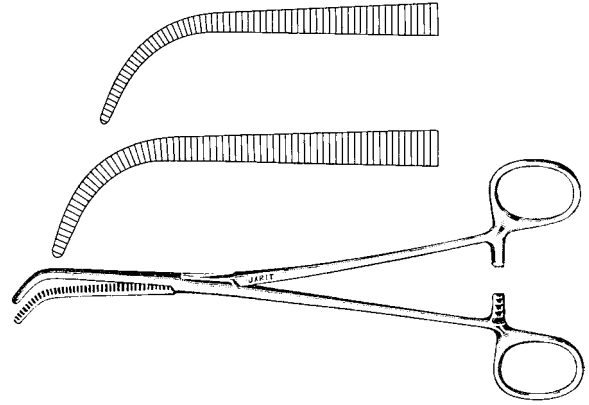
140-218 PETIT-POINT MIXTER Forceps,
5¼" (13.3cm)



140-223 PETIT-POINT MIXTER Forceps,
7¼" (18.4cm)

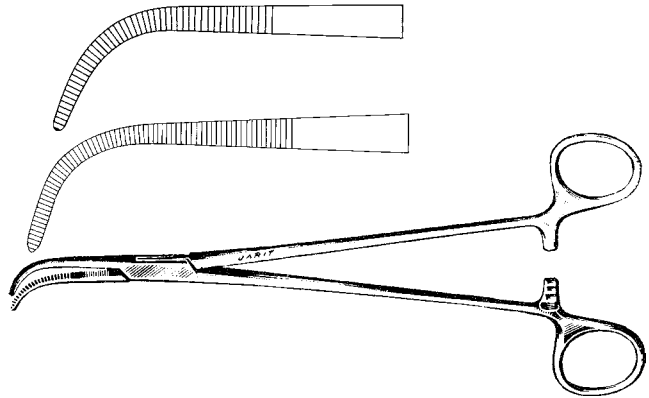
MIXTER Forceps

- 140-224 6½" (16.5cm)
- 140-225 7¼" (18.4cm)

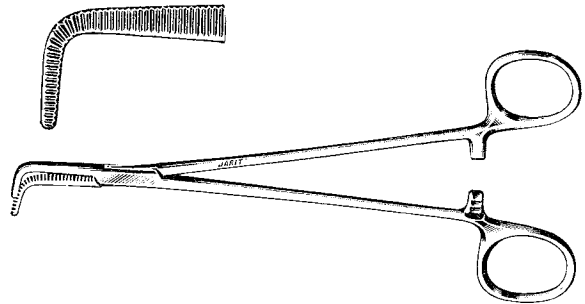


MIXTER Forceps

- 140-226 8¼" (21cm)
- 140-230 9" (22.9cm)

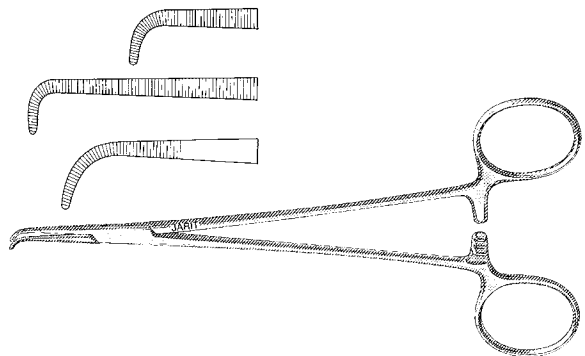


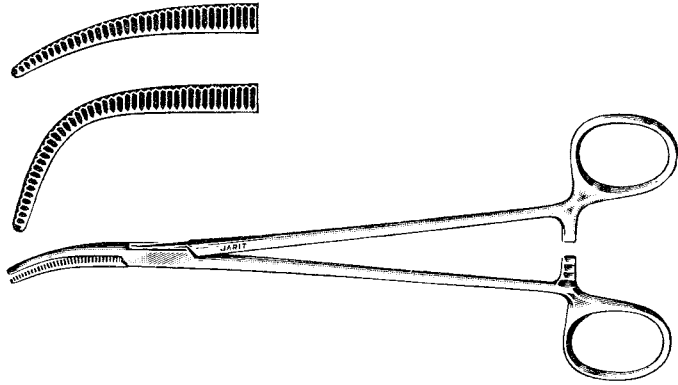
- 140-231 **MEEKER** Clamp,
7" (17.8cm), right angle



DIETRICH Clamps,
right angle

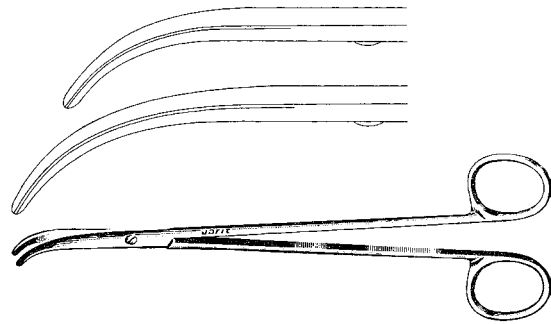
- 140-232 4¾" (12.1cm)
- 140-233 5¾" (14.3cm)
- 140-234 7" (17.8cm)





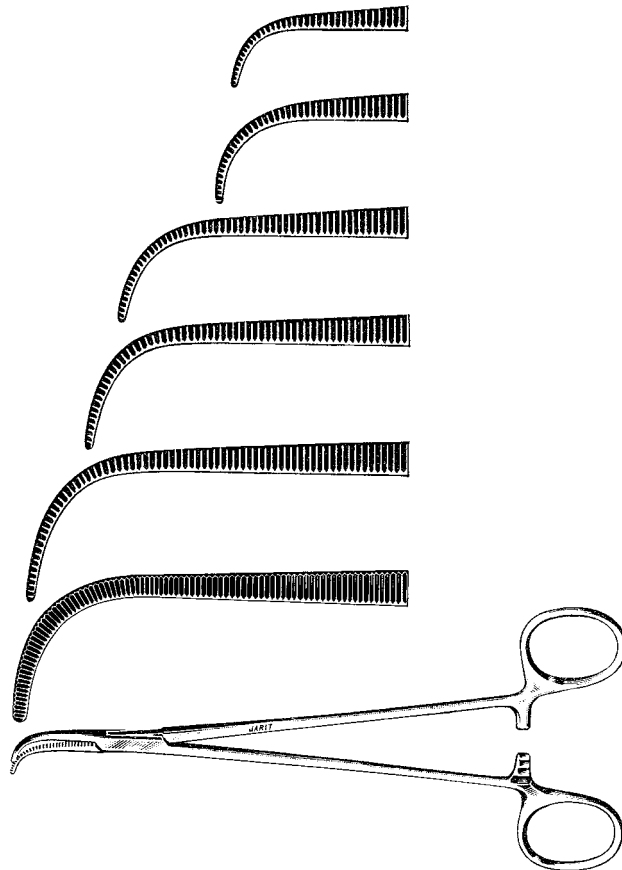
VARCO Gallbladder Forceps

- 140-240** 7½" (19.1cm), slight curve
- 140-245** 7½" (19.1cm), full curve



THOREK Scissors

- 140-320** 7½" (19.1cm), full curve
- 140-322** 9" (22.9cm), full curve



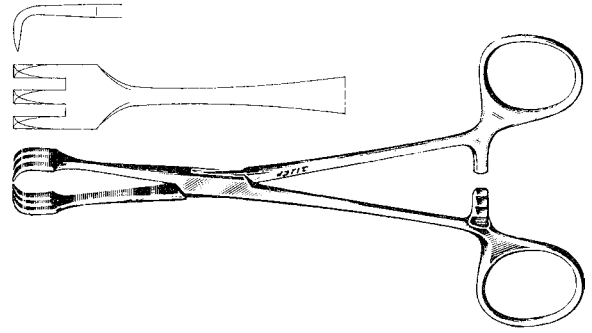
GEMINI Clamps

- 140-329** 5½" (14cm)
- 140-330** 7" (17.8cm)
- 140-331** 8" (20.3cm)
- 140-332** 9" (22.9cm)
- 140-333** 11" (27.9cm)
- 140-335** 14" (35.6cm)

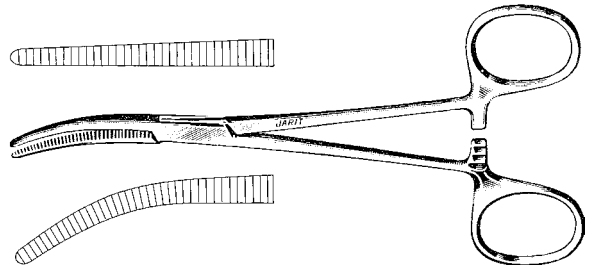


GOITRE INSTRUMENTS AND VEIN STRIPPER

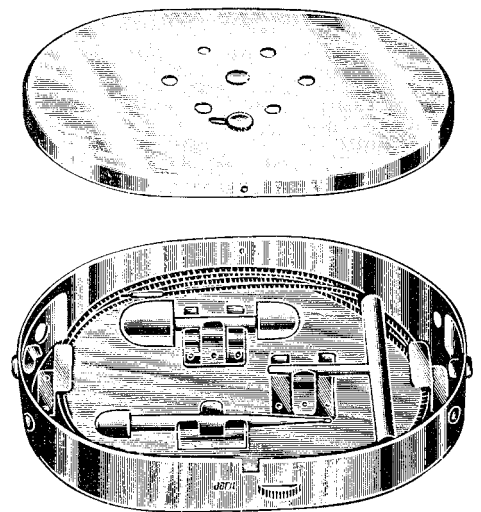
- 150-160** LAHEY Traction Forceps,
6" (15.2cm)
- 150-165** 8" (20.3cm)



- 150-175** LAHEY Hemostats,
5 1/2" (14cm)
Straight
- 150-180** Curved



- 160-120** NABATOFF Vein Stripper,
complete set in stainless steel sterilizing case



170-100 POOLE Suction Tube,
8 3/4" (22.2cm), angular, 26 French



170-101 POOLE Suction Tube,
8" (20.3cm), pediatric,
angular, 17 French, chrome plated



POOLE Suction Tubes,
straight, 32 French

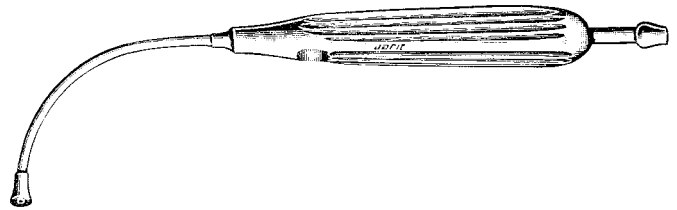
- 170-102** 8 3/4" (22.2cm)
- 170-103** 12" (30.5cm)
- 170-104** 15" (38cm)



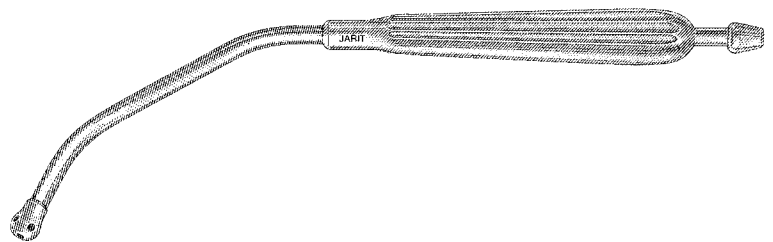
170-105 JARIT-POOLE Abdominal Suction Tube,
10¼" (26cm), with control valve, chrome plated

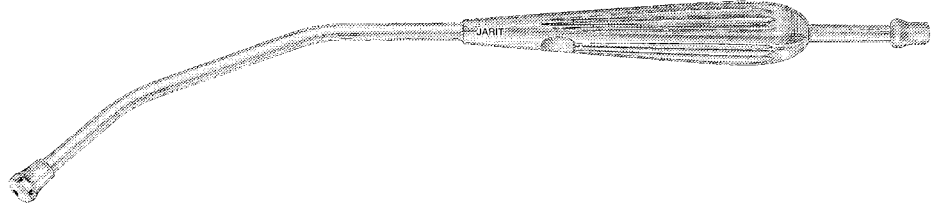


170-115 ANDREWS-PYNCHON Suction Tube,
9¾" (23.8cm)



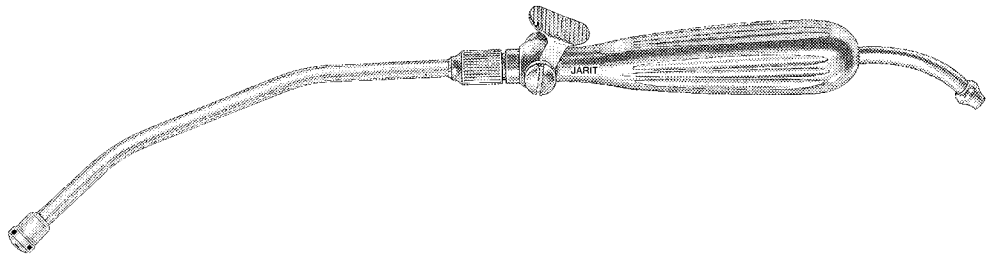
170-118 YANKAUER Suction Tube,
8¼" (21cm), pediatric



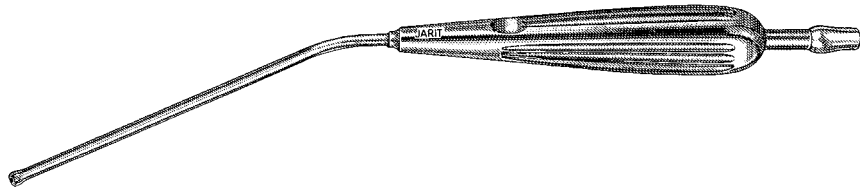


YANKAUER Suction Tube

Satin	Matte	
170-120	169-120	11½" (29.2cm)
170-117		15" (38cm)



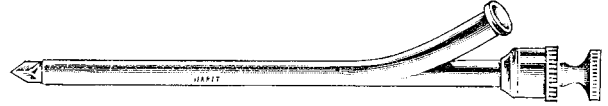
170-122 JARIT-YANKAUER Suction Tube, 12½" (31.8cm), with control valve, chrome plated



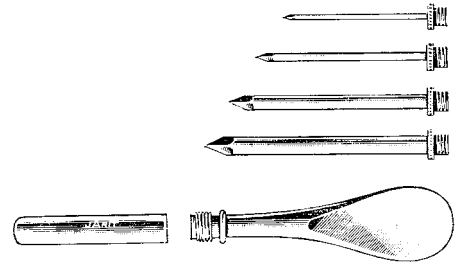
170-124 ANTHONY Suction Tube, 10" (25.4cm), 2mm opening

OCHSNER Gallbladder Trocars,
6" (15.2cm)

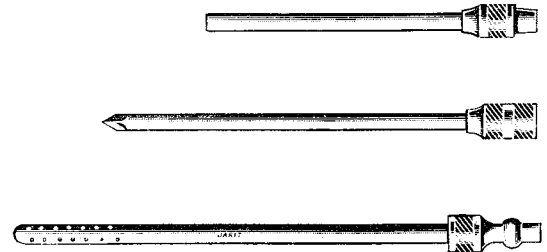
170-150	10 French	170-155	20 French
170-151	12 French	170-156	22 French
170-152	14 French	170-157	24 French
170-153	16 French	170-158	26 French
170-154	18 French	170-160	28 French



170-165 NESTED Trocars,
flat handle, set of 4 (6, 9, 13, 17 French)



170-170 DUKE Trocar and Drainage Cannula,
15 French trocar, 17 French cannula

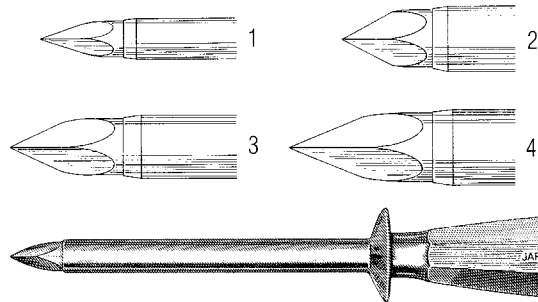


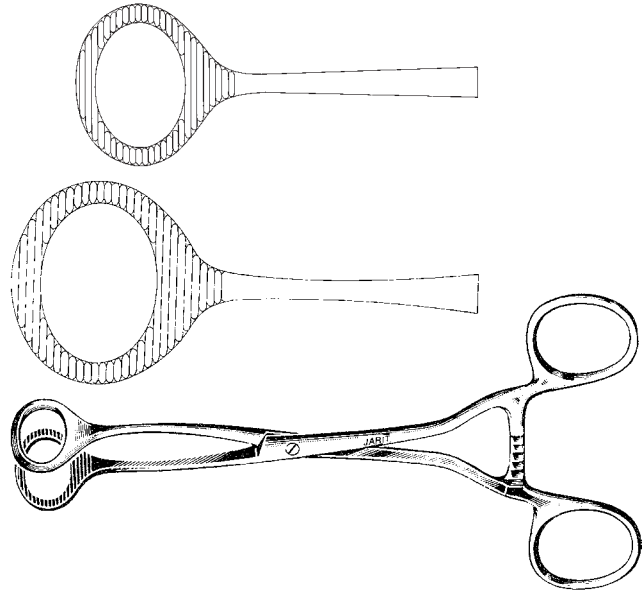
170-175 CATHETER Guide,
4 French



NELSON (PATTERSON) Empyema Trocars,
8 1/4" (21cm)

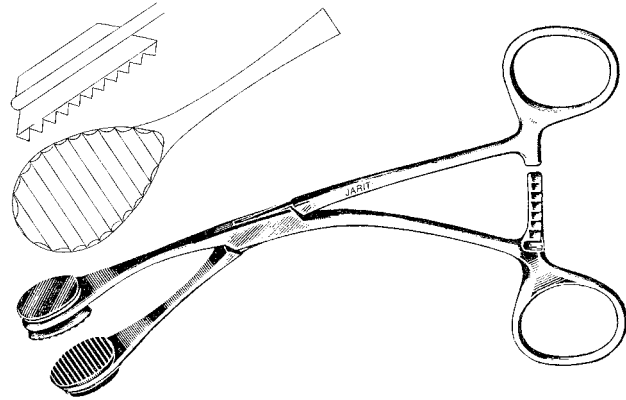
170-192	Size 1: 6mm
170-193	Size 2: 8mm
170-194	Size 3: 9.5mm
170-195	Size 4: 11mm





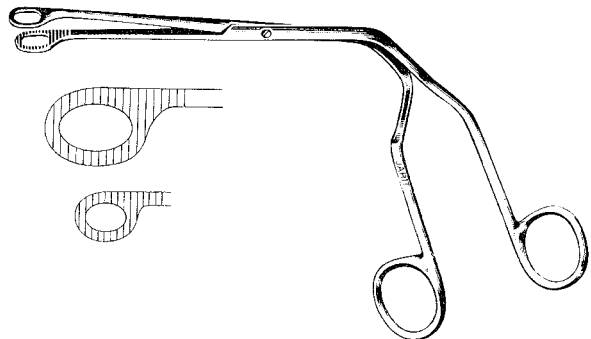
COLLINS Tongue Seizing Forceps

- 175-100 6 $\frac{3}{4}$ " (17.2cm), small
- 175-105 7 $\frac{1}{4}$ " (18.5cm), large



YOUNG Tongue Seizing Forceps

- 175-110 6 $\frac{1}{4}$ " (15.9cm)
- 175-111 Rubber (latex free) jaws only, set of 2



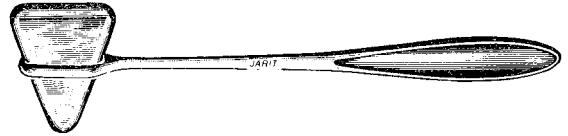
MAGILL Catheter Forceps

- 175-120 9 $\frac{1}{4}$ " (24.8cm), adult size
- 175-121 7 $\frac{1}{4}$ " (18.4cm), pediatric size

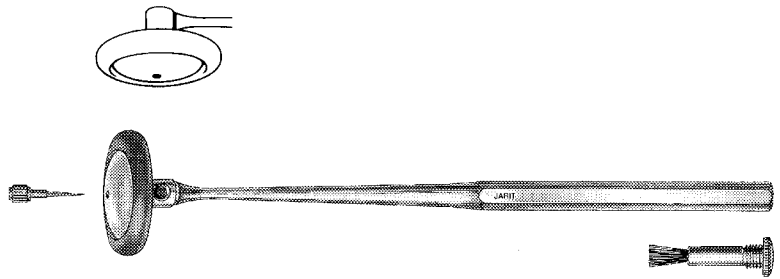
TAYLOR Percussion Hammers,
solid handle

180-100 6½" (16.5cm), small

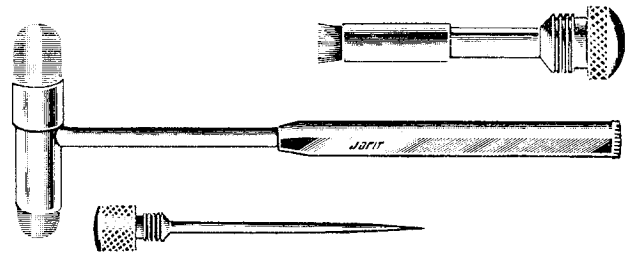
180-105 7½" (19cm), large



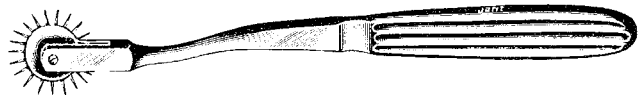
180-110 **RABINER** Neurological Hammer,
10" (25.4cm)



180-115 **BUCK** Neurological Hammer,
7" (17.8cm)



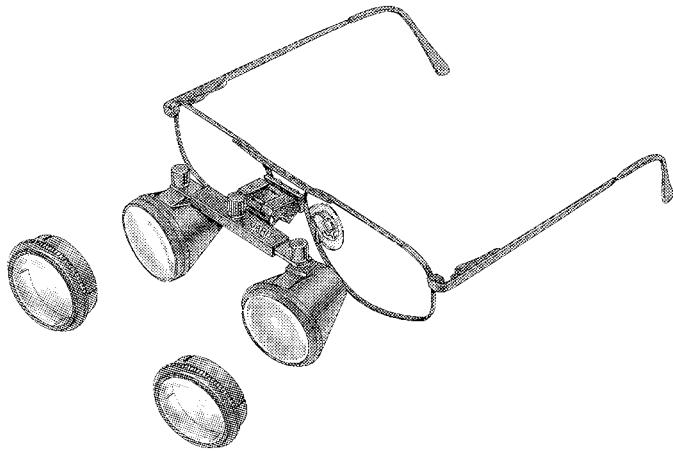
180-130 **WARTENBERG** Pin Wheel,
7¼" (18.4cm)



180-160 BINOCULAR MAGNIFYING LOUPE,
mounted on frame, coated optics,
1.8x magnification, 12" (30cm) focal length,
4" (10cm) depth of field. With storage case.

180-165 BINOCULAR MAGNIFYING LOUPE Only

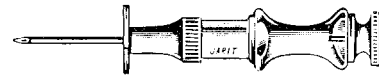
180-166 Accessory lenses only, not included in set,
increase magnification to 2.5x



UNIVERSITY OF ILLINOIS Bone Marrow Biopsy Needles

180-175 3/4" (8.3cm), 1" (2.5cm) cannula, 18 gauge

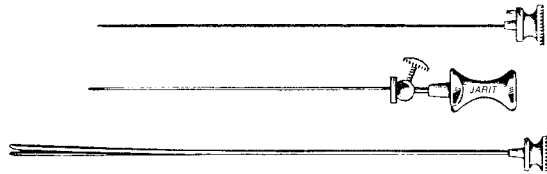
180-176 3/4" (8.3cm), 1" (2.5cm) cannula, 15 gauge



FRANKLIN-SILVERMAN Tissue Biopsy Needles

180-178 4/4" (12.4cm), 3/4" (8.6cm) cannula, 14 gauge

180-179 6" (15.2cm), 4/4" (11.4cm) cannula, 16 gauge

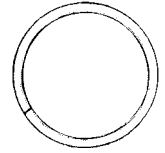




LAPAROTOMY RINGS, PROBES AND GROOVED DIRECTORS

LAPAROTOMY Rings

- 180-180** 1" (2.5cm)
- 180-182** 1½" (3.8cm)
- 180-184** 2" (5.1cm)
- 180-188** 3" (7.6cm)



PROBES with eye, stainless

- 180-200** 4½" (11.4cm)
- 180-201** 5" (12.7cm)
- 180-202** 5½" (14cm)
- 180-203** 6" (15.2cm)
- 180-204** 7" (17.8cm)
- 180-205** 8" (20.3cm)
- 180-207** 10" (25.4cm)



PROBES, double ended, stainless

- 180-222** 4½" (11.4cm)
- 180-223** 5" (12.7cm)
- 180-224** 5½" (14cm)
- 180-225** 6" (15.2cm)
- 180-226** 7" (17.8cm)
- 180-227** 8" (20.3cm)
- 180-228** 10" (25.4cm)



PROBES with eye, silver

- 180-231** 4½" (11.4cm)
- 180-232** 5" (12.7cm)
- 180-233** 5½" (14cm)
- 180-234** 6" (15.2cm)
- 180-235** 7" (17.8cm)
- 180-236** 8" (20.3cm)
- 180-238** 10" (25.4cm)



GROOVED DIRECTORS-Tongue Tie, plain point, stainless

- 180-250** 4½" (11.4cm)
- 180-251** 5" (12.7cm)
- 180-252** 5½" (14cm)
- 180-253** 6" (15.2cm)
- 180-255** 8" (20.3cm)



GROOVED DIRECTORS-Tongue Tie, probe point, stainless

- 180-260** 4½" (11.4cm)
- 180-261** 5" (12.7cm)
- 180-262** 5½" (14cm)
- 180-263** 6" (15.2cm)
- 180-265** 8" (20.3cm)



185-100 SAALFELD Comedone Extractor,
4½" (11.4cm)



185-105 SAALFELD Comedone Extractor,
5" (14.6cm)



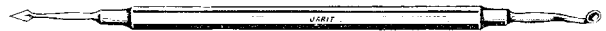
185-110 SCHAMBERG Comedone Extractor,
3¾" (9.5cm)



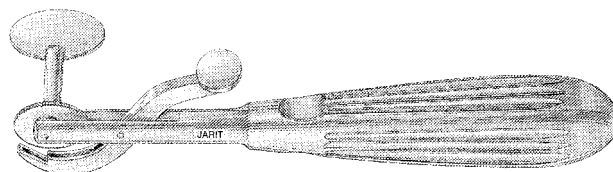
185-115 UNNA Comedone Extractor,
5" (14.6cm)



185-120 JARIT Comedone Extractor,
6" (15.2cm)

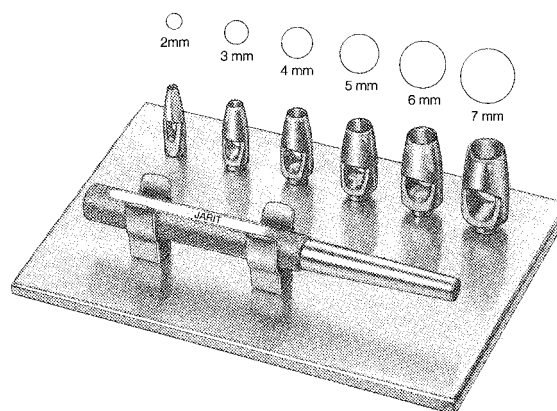


- 185-135** FINGER RING Cutter
- 185-136** Replacement blade only



- 185-150** KEYES Dermal Punch Set
- Replacement heads only

- 185-152** 2mm
- 185-153** 3mm
- 185-154** 4mm
- 185-155** 5mm
- 185-156** 6mm
- 185-157** 7mm



KEYES Dermal Punches,
4" (10.1cm)

- 185-170** 2mm
- 185-171** 3mm
- 185-172** 4mm
- 185-176** 5mm
- 185-173** 6mm
- 185-174** 8mm
- 185-175** 10mm



FOX Dermal Curettes,
5½" (14cm)

- 185-179** 2mm
- 185-180** 3mm
- 185-181** 4mm
- 185-182** 5mm
- 185-183** 6mm



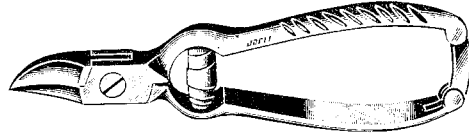
PIFFARD Dermal Curettes,
6¼" (15.9cm)

- 185-185** 4mm
- 185-186** 5mm
- 185-187** 6mm



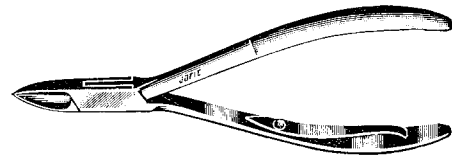
NAIL Nippers,
concave, barrel spring

- 185-190** 4½" (11.4cm), chrome
- 185-191** 4½" (11.4cm), stainless steel
- 185-192** 5½" (13cm), chrome
- 185-193** 5½" (13cm), stainless steel



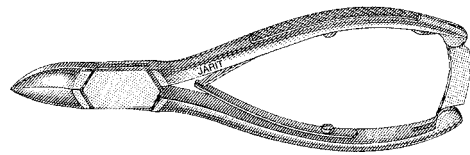
NAIL Nippers,
5½" (14cm), straight

- 185-195** chrome
- 185-196** stainless steel



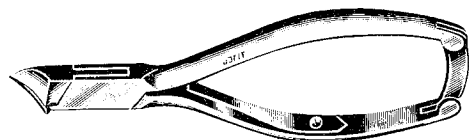
NAIL Nippers,
5½" (14cm), concave

- 185-200** chrome
- 185-201** stainless steel



NAIL Nippers,
5½" (14cm), angled concave

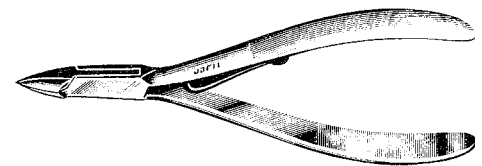
- 185-205** chrome
- 185-206** stainless steel



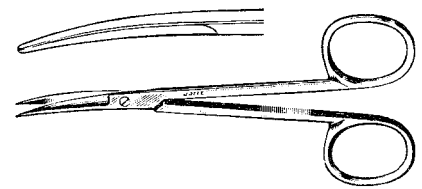
CUTICLE Nippers,
4½" (10.5cm), convex

185-230 chrome

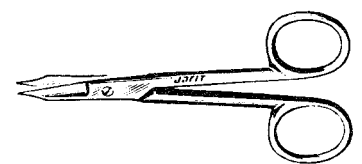
185-231 stainless steel



185-250 **CUTICLE** Scissors,
3½" (8.9cm), curved



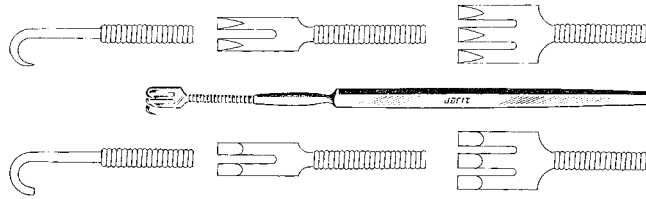
185-260 **NAIL** Scissors,
3½" (8.9cm), heavy



JARIT FINGER RETRACTORS

FLEXIBLE Shaft Retractors,
6" (15.2cm)

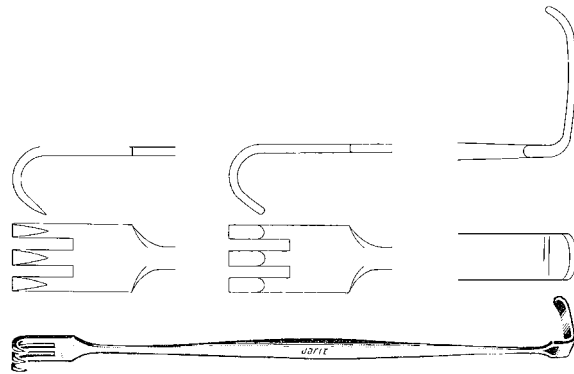
- 190-100** 1 prong, sharp
- 190-101** 2 prongs, sharp, 5mm wide
- 190-102** 3 prongs, sharp, 8mm wide
- 190-103** 1 prong, blunt
- 190-104** 2 prongs, blunt, 5mm wide
- 190-105** 3 prongs, blunt, 8mm wide



SENN Retractors,
6 1/4" (15.9cm), double-ended, 8mm wide,
solid blade 3/4" x 1/4" (19mm x 6.3mm)

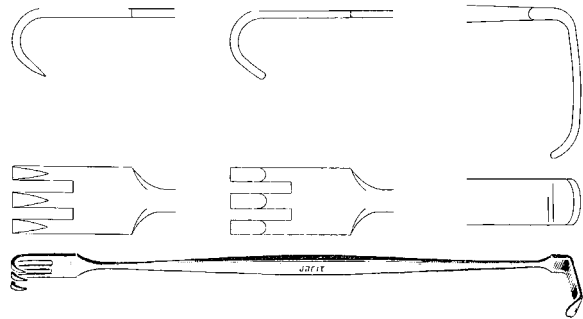
Satin Matte

- 190-110** **189-110** 3 sharp prongs
- 190-112** **189-112** 3 blunt prongs

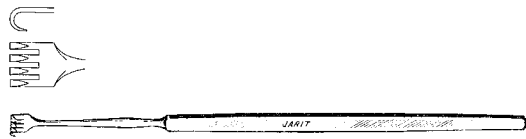


MATHIEU Retractors,
6 1/4" (15.9cm), double-ended, 8mm wide,
solid blade 3/4" x 1/4" (19mm x 6.3mm)

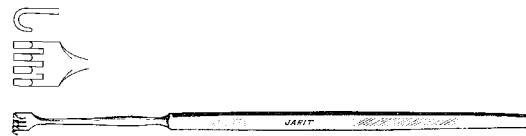
- 190-115** 3 sharp prongs
- 190-116** 3 blunt prongs



- 190-118** **ROLLET** Retractor,
5" (12.7cm), 4 sharp prongs, 6mm wide

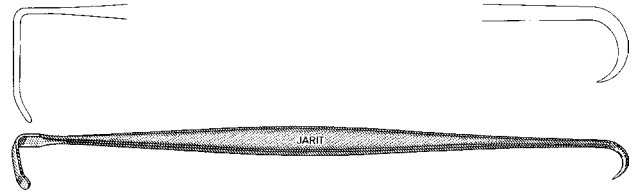


- 190-120** **KNAPP** Retractor,
5" (12.7cm), 4 blunt prongs, 6mm wide



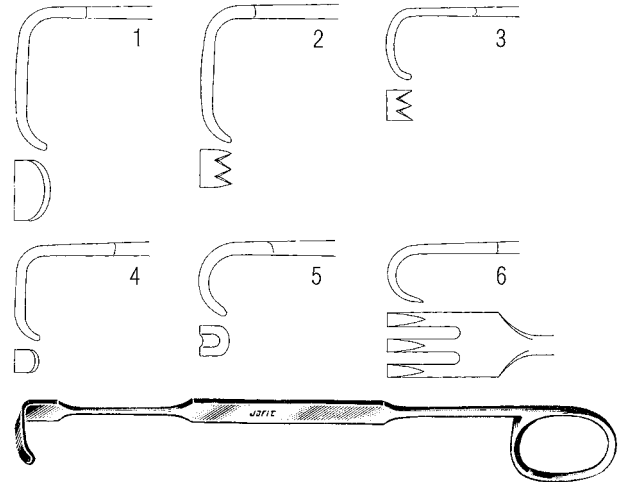
JARIT FINGER RETRACTORS

- 190-129 MEYERDING** Skin Hook and Retractor,
6¼" (15.9cm), solid blade ⅜" x ⅜" wide (16mm x 5mm)



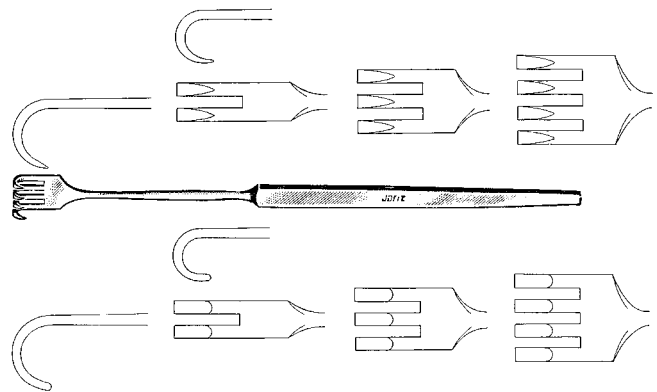
MEYERDING Finger Retractors,
7" (17.8cm)

- 190-130** Style 1, 1⅜" x ½" wide (21mm x 7.1mm)
190-131 Style 2, ⅝" x ⅜" wide (16mm x 5mm)
190-132 Style 3, ¼" x ⅜" wide (6.3mm x 4mm)
190-133 Style 4, ⅜" x ⅜" wide (10mm x 3.2mm)
190-134 Style 5, ⅝" x ⅜" wide (8mm x 4mm)
190-135 Style 6, ¼" x ⅝" wide (6.3mm x 8mm)



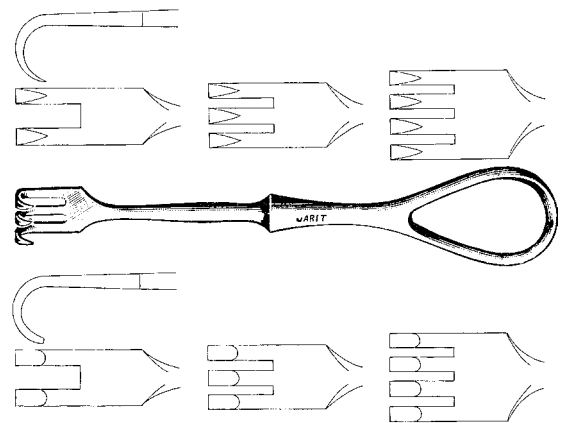
FINGER Rake Retractors,
6½" (16.5cm)

- 190-150** 1 prong, sharp
190-151 2 prongs, sharp, 5mm wide
190-152 3 prongs, sharp, 8mm wide
190-153 4 prongs, sharp, 12mm wide
190-154 1 prong, blunt
190-155 2 prongs, blunt, 5mm wide
190-156 3 prongs, blunt, 8mm wide
190-157 4 prongs, blunt, 12mm wide

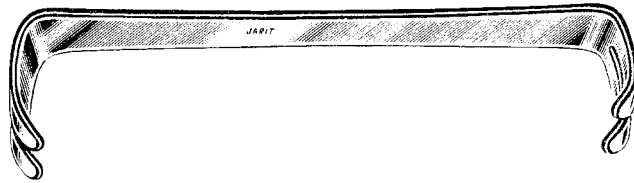


VOLKMAN Retractors,
4¾" (11.8cm)

- 190-170** 2 prongs, sharp, 8mm wide
190-171 3 prongs, sharp, 10mm wide
190-172 4 prongs, sharp, 13mm wide
190-173 6 prongs, sharp, 19mm wide
190-175 2 prongs, blunt, 8mm wide
190-176 3 prongs, blunt, 10mm wide
190-177 4 prongs, blunt, 13mm wide
190-178 6 prongs, blunt, 19mm wide



200-100 **MAYO-COLLINS** Retractor,
6" (15.2cm), double-ended, set of 2,
blades $\frac{3}{4}$ " x $\frac{7}{8}$ " deep and $\frac{3}{4}$ " x $1\frac{1}{8}$ " deep
(1.9cm x 2.2cm) and (1.9cm x 2.9cm)



U.S. ARMY Retractor,
 $8\frac{1}{4}$ " (21cm), double-ended, blades $\frac{5}{8}$ " (1.5cm) wide, set of 2

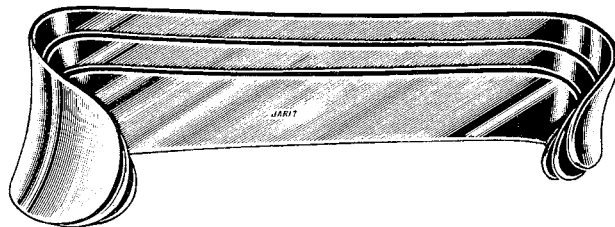
Satin Matte

200-105 **199-105** Small blade: $\frac{7}{8}$ " and $1\frac{1}{2}$ " deep (2.2cm and 3.8cm)
Large blade: 1" and $1\frac{1}{8}$ " deep (2.5cm and 4.1cm)

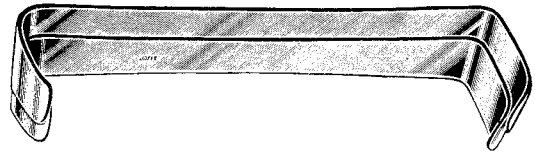


ROUX Retractors,
 $6\frac{1}{2}$ " (16.5cm), double-ended

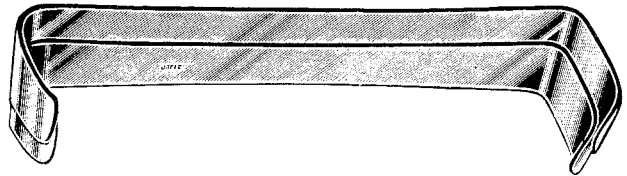
200-106 Set of 3
200-107 Small: $\frac{7}{8}$ " and $1\frac{1}{8}$ " wide (21mm and 29mm) blades
200-108 Medium: 1" and $1\frac{1}{2}$ " wide (26mm and 37mm) blades
200-109 Large: $1\frac{1}{4}$ " and $1\frac{3}{4}$ " wide (31mm and 45mm) blades



200-110 FARABEUF Retractor,
4½" (11.4cm), double-ended, set of 2,
blades ⅞" x 1" deep (1.1cm x 2.5cm) and
½" x 1" deep (1.3cm x 2.5cm)



200-115 FARABEUF Retractor,
6" (15.2cm), double-ended, set of 2,
blades ⅞" x 1" deep (1.6cm x 2.5cm) and
⅝" x 1¼" deep (1.6cm x 3.2cm)

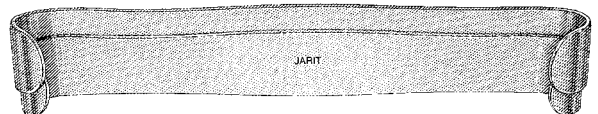


200-119 SISTRUNK Retractor,
6" (15.2cm), double-ended,
blade ⅞" x 1" deep (1cm x 2.5cm)

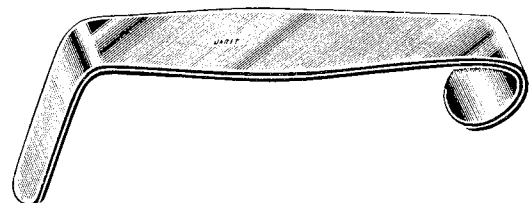


200-120 PARKER Retractor,
5" (12.7cm), double-ended, set of 2,
blades ⅞" x ⅜" deep (1.6cm x 1.9cm)

200-122 PARKER Retractor,
7" (17.8cm), double-ended, set of 2,
blades 1" x 1" deep (2.5cm x 2.5cm)



200-125 PARKER-MOTT Retractor,
5¾" (14.6cm), double-ended, set of 2,
blades 1" x 2½" deep (2.5cm x 6.4cm)

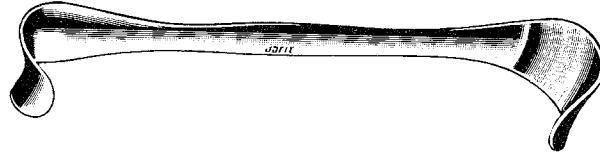


LANGENBECK Retractors,
8½" (21.6cm)

- 200-126 Small blade: ¾" x 1¼" deep (1cm x 4.1cm)
- 200-127 Medium blade: ½" x 1¼" deep (1.3cm x 4.1cm)
- 200-128 Large blade: ¾" x 1¼" deep (1.6cm x 4.1cm)



- 200-130 **GOELET** Retractor,
7½" (19cm), double-ended,
blades 1¼" and 1½" wide (3.2cm and 4.1cm)



- 200-131 **McBURNEY** Thyroid Retractor,
7½" (19cm), blade ¾" x ¾" wide (1.6cm x 1cm)



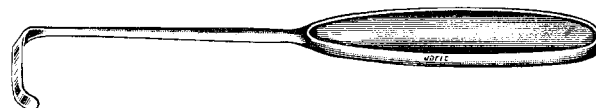
- 200-132 **GREEN** Thyroid Retractor,
8½" (21.6cm), blade ¾" x ¾" wide (2.2cm x 1.6cm)



- 200-133 **LITTLE** Retractor,
7½" (19cm), blade ¾" x ¾" wide (1.6cm x 1.1cm)



200-134 LAHEY Thyroid Retractor,
8" (20.3cm), blade 1" x ¼" wide (25mm x 7mm)

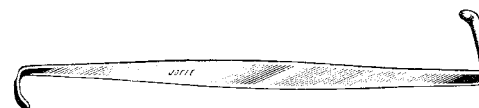


CUSHING Vein Retractor,
blade ⅜" x ⅛" wide (9.5mm x 11mm)

Satin	Matte	
200-135	199-135	9" (22.8cm)
200-136		11" (27.9cm)
200-137		14" (35.6cm)



200-138 CRILE Retractor,
4¼" (11cm), double-ended,
blades ½" x ⅛" wide (13mm x 3.2mm)
and ⅞" x ¼" wide (22mm x 6.4mm)



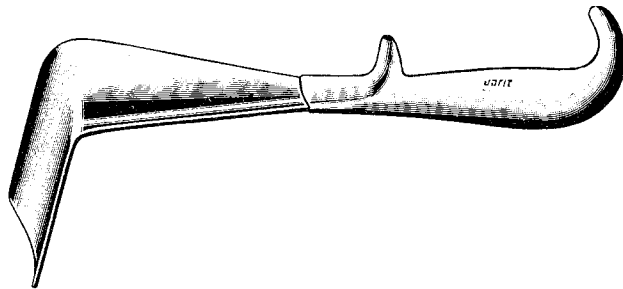
SAUERBRUCH Retractors,
9" (22.9cm)

- 200-140** Blade 1 $\frac{1}{4}$ " x $\frac{5}{8}$ " wide (4.5 x 1.6cm)
- 200-142** Blade 2 $\frac{1}{2}$ " x $\frac{7}{8}$ " wide (6.4 x 2.2cm)
- 200-143** Blade 2 $\frac{7}{8}$ " x $\frac{3}{4}$ " wide (7.3 x 1.9cm)



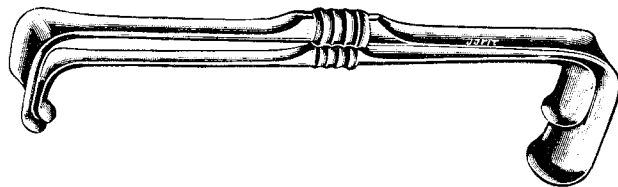
DOYEN Retractors,
8 $\frac{1}{2}$ " (21.6cm)

- 200-145** Blade 1 $\frac{1}{4}$ " x 2 $\frac{1}{2}$ " deep (4.5 x 6.4cm)
- 200-147** Blade 2 $\frac{1}{4}$ " x 3" deep (5.4 x 7.6cm)
- 200-149** Blade 2 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ " deep (5.7 x 8.9cm)



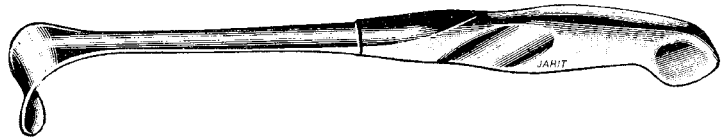
RICHARDSON-EASTMAN Retractors,
double-ended

- 200-150** Set of 2
- 200-151** Small size: 10" (25.4cm), blades $\frac{3}{8}$ " wide x 1 $\frac{1}{8}$ " deep, and 1 $\frac{1}{8}$ " wide x 1 $\frac{1}{2}$ " deep. (1.9 x 2.9cm) and (2.9 x 3.8cm)
- 200-152** Large size: 10 $\frac{1}{2}$ " (27cm), blades 1 $\frac{1}{2}$ " wide x 1 $\frac{1}{4}$ " deep, and 1 $\frac{1}{8}$ " wide x 2 $\frac{1}{2}$ " deep. (3.8 x 4.5cm) and (4.1 x 6.4cm)



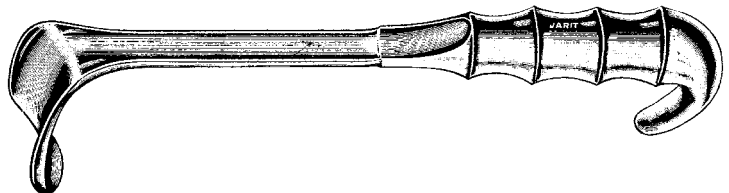
RICHARDSON Retractors,
Lamb handle, 10½" (26.7cm)

- 200-155** Blade ¾" wide x 1" deep (1.9 x 2.5cm)
- 200-156** Blade 1" wide x 1¼" deep (2.5 x 3.2cm)
- 200-157** Blade 1½" wide x 1½" deep (3.8 x 3.8cm)



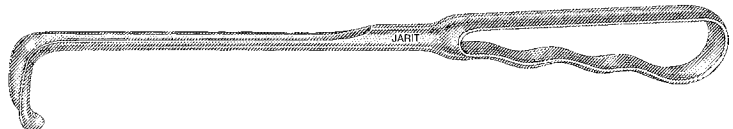
RICHARDSON Retractors,
hollow grip handle, 9½" (24.1cm)

- 201-155** Blade ¾" wide x 1" deep (1.9 x 2.5cm)
- 201-156** Blade 1" wide x 1¼" deep (2.5 x 3.2cm)
- 201-157** Blade 1½" wide x 1½" deep (3.8 x 3.8cm)

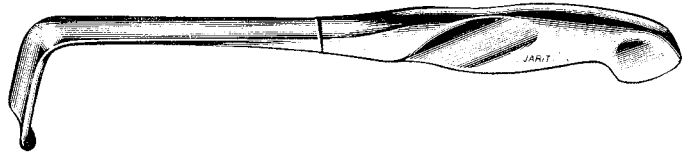


RICHARDSON Retractors,
loop handle, 9½" (24.1cm)

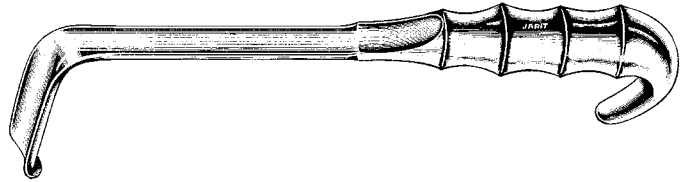
- 202-155** Blade ¾" wide x 1" deep (1.9 x 2.5cm)
- 202-156** Blade 1" wide x 1¼" deep (2.5 x 3.2cm)
- 202-157** Blade 1½" wide x 1½" deep (3.8 x 3.8cm)



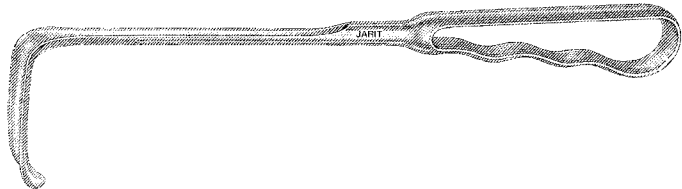
200-160 RICHARDSON Appendectomy Retractor,
Lamb handle, 10 $\frac{1}{4}$ " (26cm),
blade $\frac{3}{4}$ " wide x 2" deep (1.9 x 5.1cm)



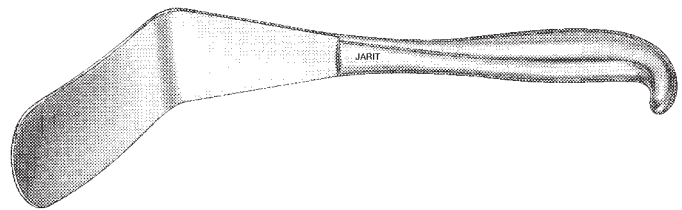
201-160 RICHARDSON Appendectomy Retractor,
hollow grip handle, 9 $\frac{1}{4}$ " (23.5cm),
blade $\frac{3}{4}$ " wide x 2" deep (1.9 x 5.1cm)



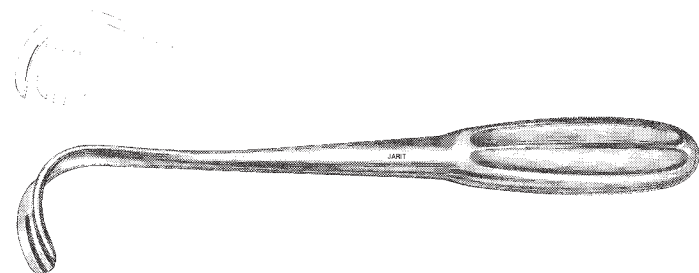
202-160 RICHARDSON Appendectomy Retractor,
loop handle, 9 $\frac{1}{4}$ " (23.5cm),
blade $\frac{3}{4}$ " wide x 2" deep (1.9 x 5.1cm)



475-429 MURPHY Gall Bladder Retractor,
11" (28cm),
blade 2" wide (5cm)

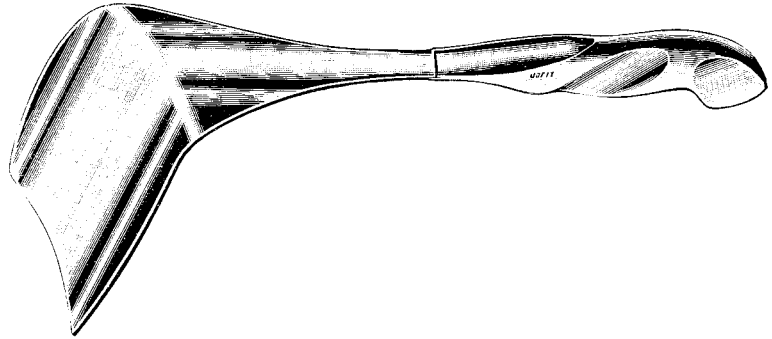


200-261 SEMB Retractor,
9 $\frac{1}{2}$ " (25cm),
small blade $\frac{5}{8}$ " wide x 1 $\frac{1}{4}$ " deep (1.5 x 3.2cm)



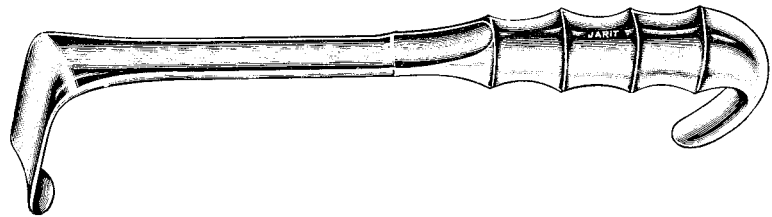
KELLY Retractors,
Lamb handle, 11" (28cm)

- 200-165** Blade 1½" x 2" deep (3.8 x 5.1cm)
- 200-166** Blade 2" x 2½" deep (5.1 x 6.4cm)
- 200-167** Blade 2½" x 3" deep (6.4 x 7.6cm)
- 200-168** Blade 3" x 3½" deep (7.6 x 8.9cm)



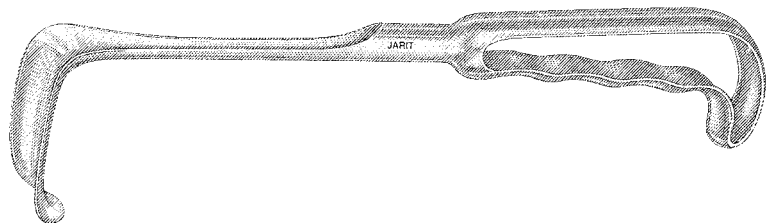
KELLY Retractors,
hollow grip handle, 10" (25.4cm)

- 201-165** Blade 1½" x 2" deep (3.8 x 5.1cm)
- 201-166** Blade 2" x 2½" deep (5.1 x 6.4cm)
- 201-167** Blade 2½" x 3" deep (6.4 x 7.6cm)
- 201-168** Blade 3" x 3½" deep (7.6 x 8.9cm)

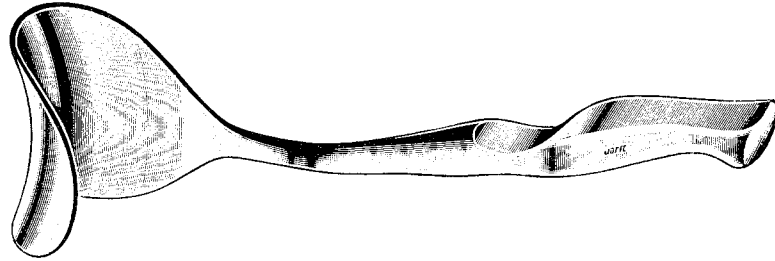


KELLY Retractors,
loop handle, 9¾" (24.8cm)

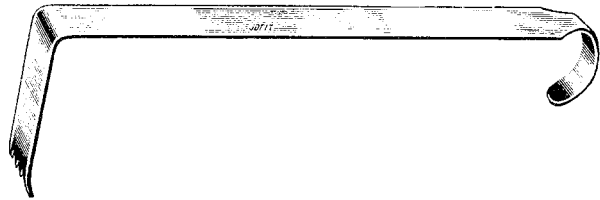
- 202-165** Blade 1½" x 2" deep (3.8 x 5.1cm)
- 202-166** Blade 2" x 2½" deep (5.1 x 6.4cm)
- 202-167** Blade 2½" x 3" deep (6.4 x 7.6cm)
- 202-168** Blade 3" x 3½" deep (7.6 x 8.9cm)



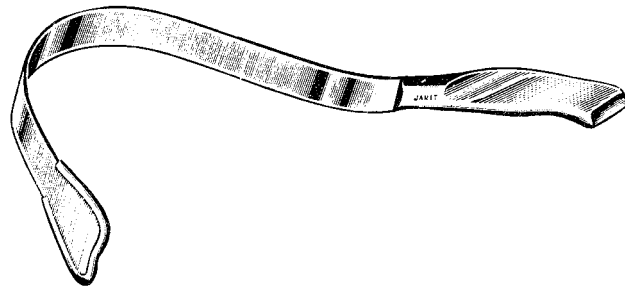
200-170 **MAYO** Abdominal Retractor,
Lamb handle, 11" (27.9cm),
blade 2 3/4" wide (7cm)



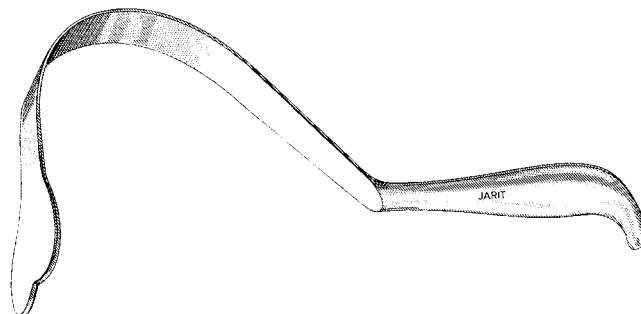
HIBBS Retractors,
9 1/2" (24.2cm)
200-172 Blade 1" x 3" deep (2.5 x 7.6cm)
200-173 Blade 3/4" x 2" deep (1.9 x 5.1cm)



HARRINGTON Splanchnic Retractors,
Lamb handle, 12 1/2" (31.8cm)
200-175 Blade 1 1/2" wide (3.8cm)
200-176 Blade 2 1/2" wide (6.4cm)

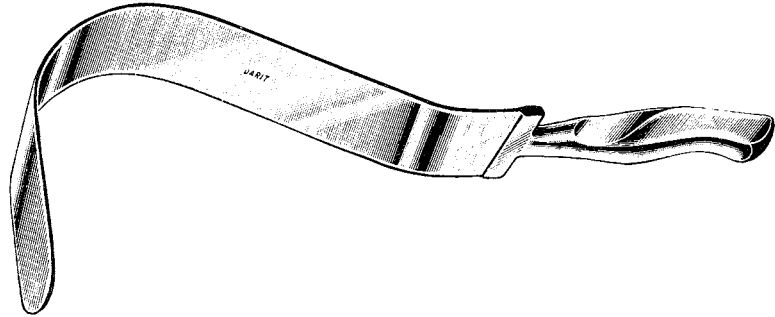


200-178 **HARRINGTON-PEMBERTON** Retractor,
12" (30.5cm), blade 2 1/2" wide (6.4cm)



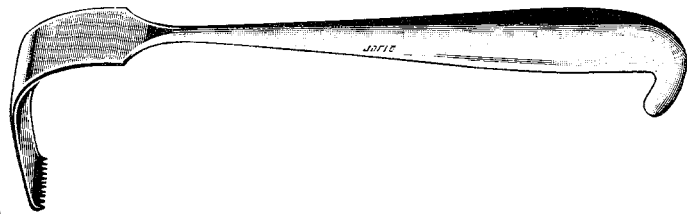
FORD-DEAVER Retractors,
Lamb handle, 16½" (41.9cm),
blade 10" long x 6" deep,
(25.4cm x 15.2cm)

- 200-180** 2" wide (5.1cm)
- 200-181** 3" wide (7.6cm)
- 200-182** 4" wide (10.2cm)



MEYERDING Retractors

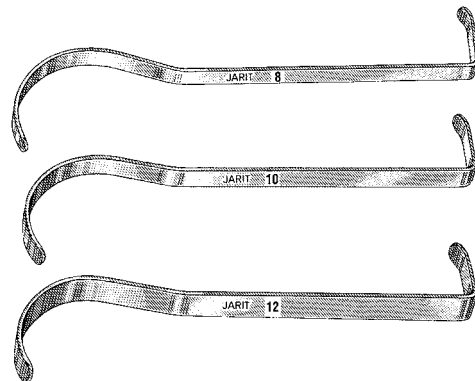
- 200-190** 8" (20.3cm), blade ¾" x 2" deep (1.6 x 5.1cm)
- 200-191** 9" (22.9cm), blade 1" x 3" deep (2.5 x 7.6cm)
- 200-192** 9½" (24.1cm), blade 2" x 3½" deep (5.1 x 8.9cm)



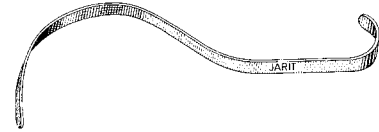
JARIT-DEAVER Retractors,
6¾" (17.1cm), double-ended,
pediatric sizes

- 200-194** Blade 8mm wide
- 200-195** Blade 10mm wide
- 200-196** Blade 12mm wide

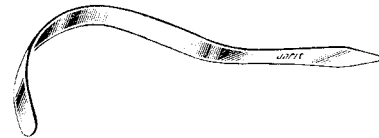
200-197 **JARIT-DEAVER** Retractors,
Set of 3



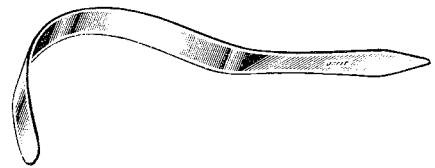
200-198 **DEAVER** Retractor,
3/8" wide x 7" long (1 x 17.8cm), pediatric size



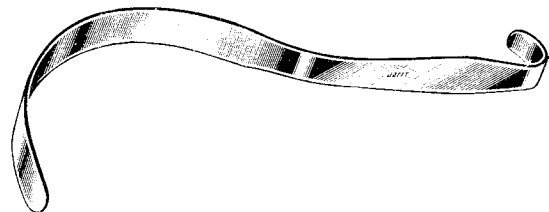
200-200 **DEAVER** Retractor,
3/4" wide x 7" long (1.9 x 17.8cm)



200-201 **DEAVER** Retractor,
3/8" wide x 8 1/2" long (2.2 x 21.6cm)

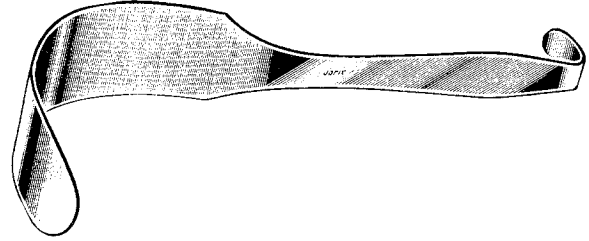


DEAVER Retractors
200-202 1" wide x 12" long (2.5 x 30.5cm)
200-203 1" wide x 13" long (2.5 x 33cm)
200-204 1" wide x 14" long (2.5 x 35.6cm)



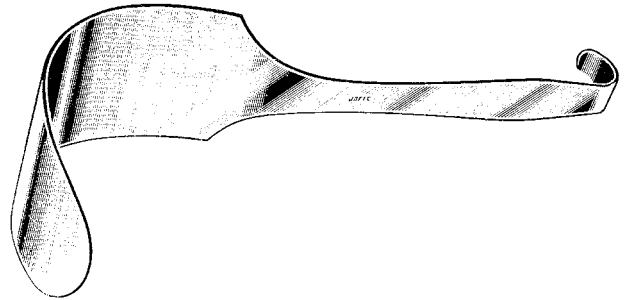
DEAVER Retractors

- 200-205** 1½" wide x 12" long (3.8 x 30.5cm)
- 200-206** 2" wide x 12" long (5.1 x 30.5cm)

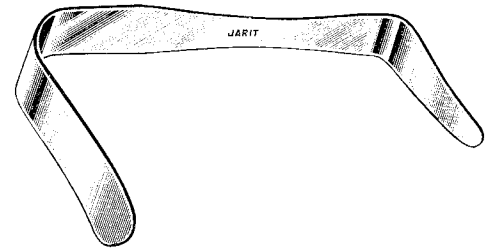


DEAVER Retractors

- 200-207** 3" wide x 12" long (7.6 x 30.5cm)
- 200-208** 1" wide x 10½" long (2.5 x 26.7cm)

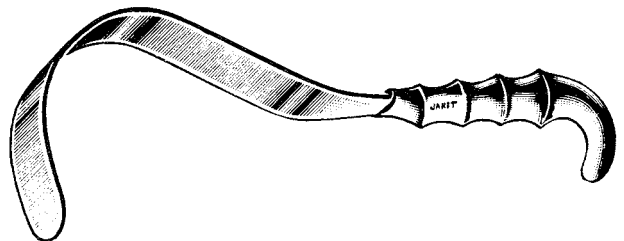


- 200-210** **DEAVER** Retractor,
1" wide x 9" long (2.5 x 22.9cm)



**DEAVER Retractors,
hollow grip handle**

- 201-200** 1" wide x 10" long (2.5 x 25.4cm)
- 201-201** 1" wide x 12" long (2.5 x 30.5cm)
- 201-202** 1" wide x 13" long (2.5 x 33cm)
- 201-203** 2½" wide x 14½" long (6.4 x 36.8cm)
- 201-204** 3½" wide x 12" long (8.9 x 30.5cm)
- 201-205** 2" wide x 12" long (5.1 x 30.5cm)
- 201-206** 3" wide x 12" long (7.6 x 30.5cm)



200-116 CHILDREN'S HOSPITAL Retractor,
double ended, 4 $\frac{1}{8}$ " (12.4cm)
Large blade: $\frac{1}{2}$ " wide x $\frac{3}{4}$ " deep (1.3cm and 1.9cm)
Small blade: $\frac{1}{4}$ " wide x $\frac{3}{4}$ " deep (.6cm x 1.cm)



RIBBON Retractors,
malleable blade, pediatric sizes

200-217 1" wide x 10" long (2.5 x 25.4cm)
200-218 $\frac{5}{8}$ " wide x 6 $\frac{3}{4}$ " long (1.6 x 17.1cm)
200-219 1" wide x 7 $\frac{1}{2}$ " long (2.5 x 19.1cm)

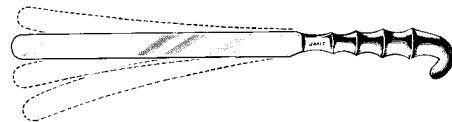
RIBBON Retractors,
malleable blade, 13" (33cm)

200-220 $\frac{3}{4}$ " wide (1.9cm)
200-221 1" wide (2.5cm)
200-222 1 $\frac{1}{4}$ " wide (3.2cm)
200-223 1 $\frac{1}{2}$ " wide (3.8cm)
200-225 2" wide (5.1cm)
200-226 2 $\frac{1}{2}$ " wide (6.5cm)
200-227 3" wide (7.6cm)
200-228 4" wide (10.2cm)



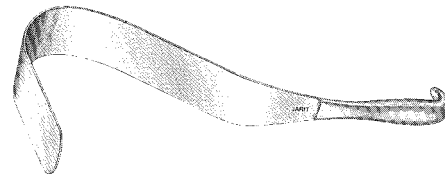
RIBBON Retractors,
hollow grip handle,
malleable blade 13" (33cm),
overall length 17 $\frac{1}{2}$ " (44.5cm)

201-220 $\frac{3}{4}$ " wide (1.9cm)
201-221 1" wide (2.5cm)
201-222 1 $\frac{1}{4}$ " wide (3.2cm)
201-223 1 $\frac{1}{2}$ " wide (3.8cm)
201-225 2" wide (5.1cm)

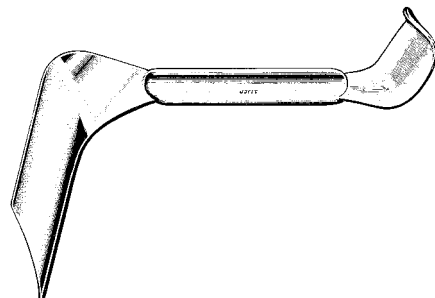


WILLAUER-DEAVER Retractors,
15 $\frac{1}{2}$ " (39.4cm), blade 6 $\frac{1}{4}$ " deep (15.9cm)

200-235 1" wide (2.5cm)
200-237 2" wide (5cm)



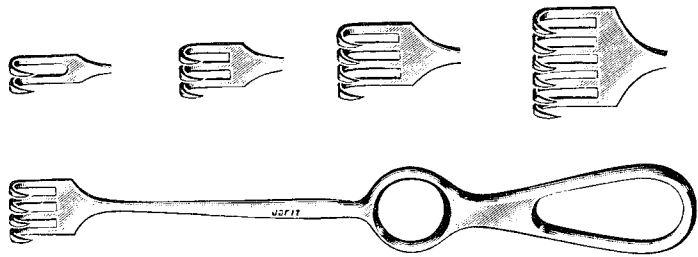
200-255 WEINBERG Vagotomy Retractor,
9 $\frac{1}{2}$ " (24.1cm)
Large blade: 3 $\frac{3}{8}$ " wide x 6" deep (9.2cm and 15.2cm)
Small blade: 1 $\frac{1}{2}$ " wide x 2 $\frac{1}{4}$ " deep (4.8cm x 5.7cm)



VOLKMAN Retractors,
8" (20.3cm), sharp

Satin Matte

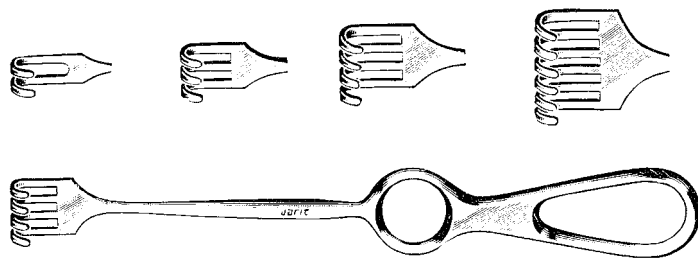
- 200-270** 2 prongs, 9mm x 8mm wide
- 200-271** 3 prongs, 9mm x 13mm wide
- 200-272 199-272** 4 prongs, 9mm x 18mm wide
- 200-273** 6 prongs, 9mm x 28mm wide



VOLKMAN Retractors,
8" (20.3cm), blunt

Satin Matte

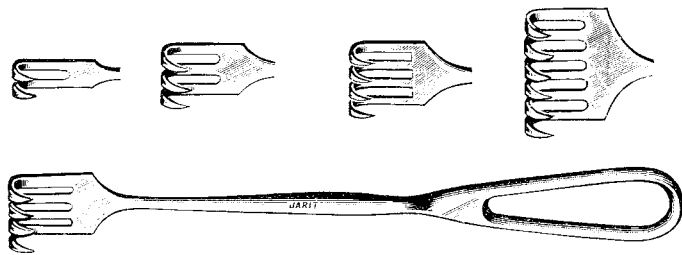
- 200-280** 2 prongs, 9mm x 8mm wide
- 200-281** 3 prongs, 9mm x 13mm wide
- 200-282 199-282** 4 prongs, 9mm x 18mm wide
- 200-283** 6 prongs, 9mm x 28mm wide



VOLKMAN Retractors,
8 3/4" (22.2cm), USA Pattern, sharp

Satin Matte

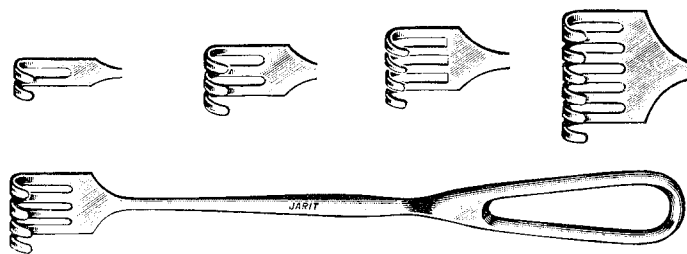
- 200-290** 2 prongs, 16mm x 11mm wide
- 200-291** 3 prongs, 16mm x 18mm wide
- 200-292** **199-292** 4 prongs, 16mm x 26mm wide
- 200-293** 6 prongs, 16mm x 40mm wide



VOLKMAN Retractors,
8 3/4" (22.2cm), USA Pattern, blunt

Satin Matte

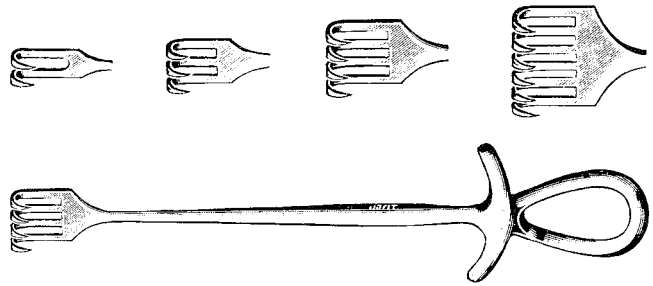
- 200-295** 2 prongs, 16mm x 11mm wide
- 200-296** 3 prongs, 16mm x 18mm wide
- 200-297** **199-297** 4 prongs, 16mm x 26mm wide
- 200-298** 6 prongs, 16mm x 40mm wide



JAYL RAKE RETRACTORS

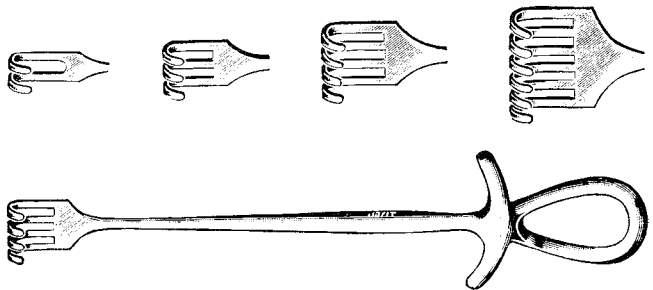
MURPHY Retractors,
7 $\frac{1}{2}$ " (19.4cm), sharp

- 200-300** 2 prongs, 8mm x 8mm wide
- 200-301** 3 prongs, 8mm x 13mm wide
- 200-302** 4 prongs, 8mm x 18mm wide
- 200-303** 6 prongs, 8mm x 28mm wide

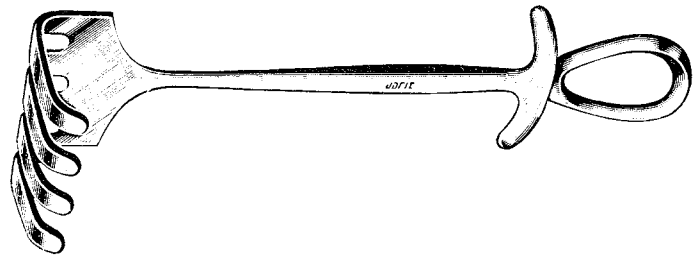


MURPHY Retractors,
7 $\frac{1}{2}$ " (19.4cm), blunt

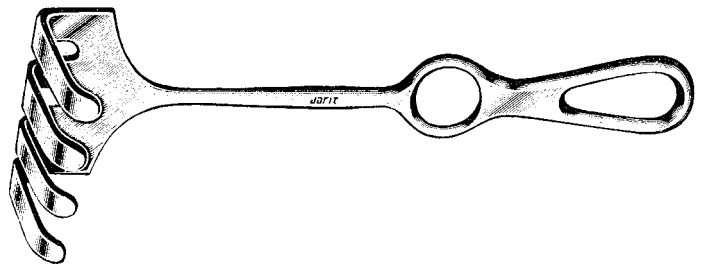
- 200-310** 2 prongs, 8mm x 8mm wide
- 200-311** 3 prongs, 8mm x 13mm wide
- 200-312** 4 prongs, 8mm x 18mm wide
- 200-313** 6 prongs, 8mm x 28mm wide



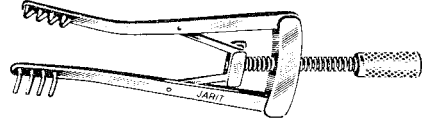
- 200-315** **ISRAEL** Retractor,
7 $\frac{1}{2}$ " (19.1cm), blunt, 4 prongs,
40mm x 42mm wide



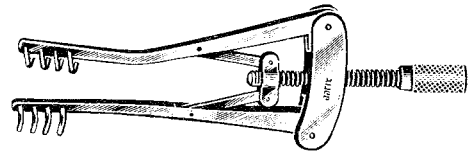
- 200-318** **OLLIER** Retractor,
9" (22.9cm), blunt, 4 prongs,
34mm x 56mm wide



205-100 **ALM** Retractor,
2¾" (7cm), 2" (5cm) spread

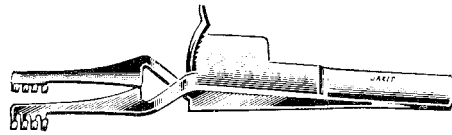


205-105 **ALM** Retractor,
4" (10.2cm), 2½" (6.4cm) spread



JARIT Cross Action Retractors,
4" (10.2cm), 1" (2.5cm) spread

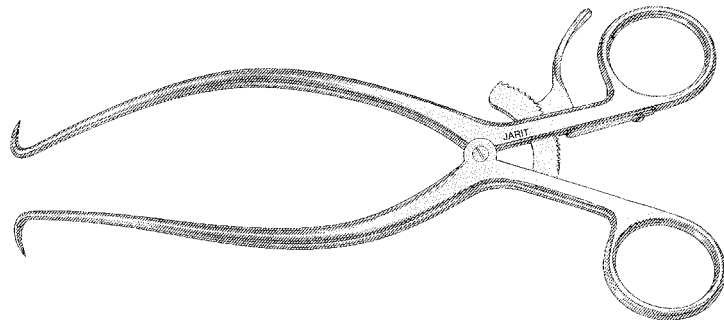
205-110 Sharp prongs
205-111 Blunt prongs



GELPI Perineal Retractor,
7½" (19.1cm)

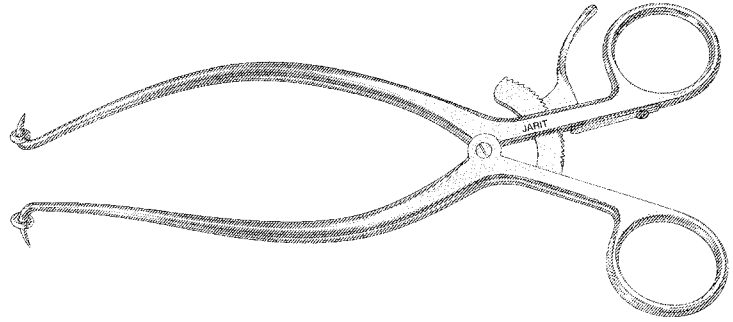
Satin Matte

205-120 **204-120** 7½" (19.1cm)



JARIT SELF-RETAINING RETRACTORS

205-121 GELPI Perineal Retractor,
7½" (19.1cm), with ball stops

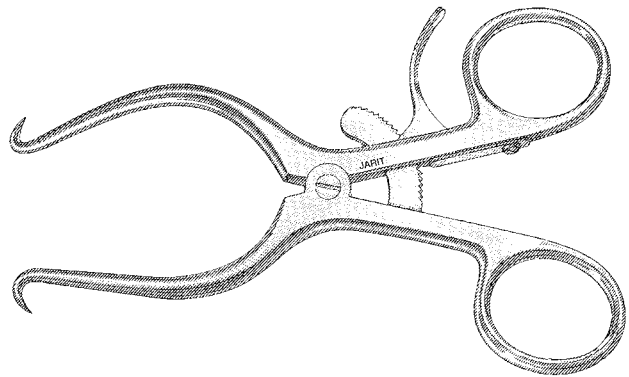


GELPI Perineal Retractors,
pediatric sizes

Satin

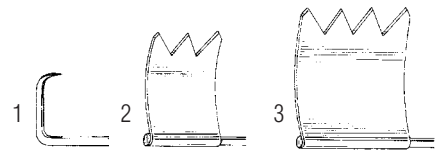
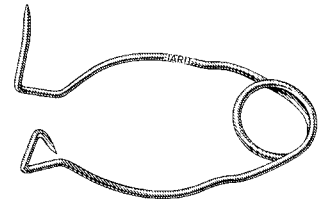
Matte

- | | | |
|----------------|----------------|--------------|
| 205-123 | 204-123 | 3½" (8.9cm) |
| 205-124 | 204-124 | 4½" (11.4cm) |
| 205-125 | 204-125 | 5½" (14cm) |



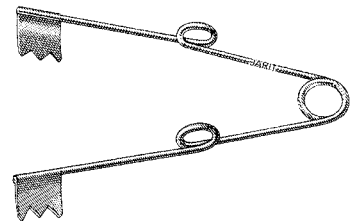
FARR Spring Retractors

- | | |
|----------------|--------------------------|
| 205-130 | 1½" (3.8cm) sharp points |
| 205-131 | 2" (5cm) sharp points |
| 205-132 | 2¼" (5.8cm) sharp points |
| 205-133 | 2½" (6.4cm) sharp points |
| 205-134 | 3" (7.5cm) sharp points |
| 205-135 | 2½" (6.4cm) flat blades |



JARIT Spring Wire Retractors

- | | |
|----------------|-----------------------|
| 205-136 | 3" (7.5cm), style 1 |
| 205-137 | 3½" (9cm), style 2 |
| 205-138 | 4½" (11.5cm), style 3 |

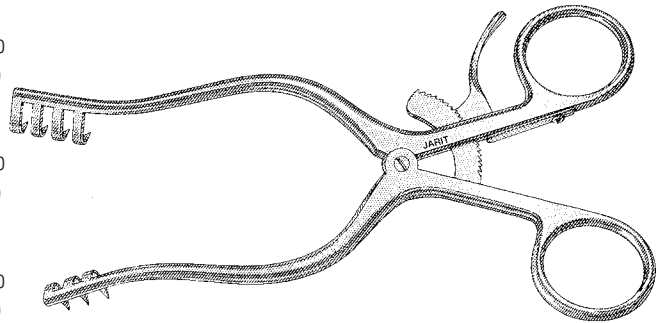


WEITLANER Retractors

Satin

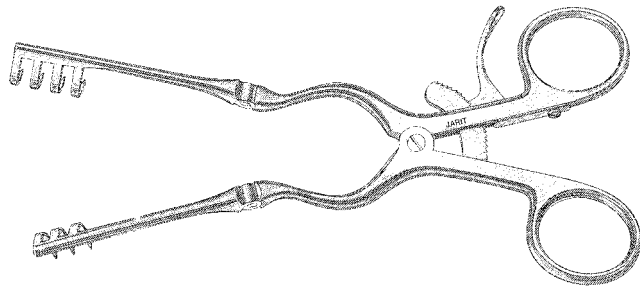
Matte

- | | | |
|----------------|----------------|---|
| 205-140 | 204-140 | 4½" (11.4cm), 2 x 3 sharp prongs, 15mm deep |
| 205-141 | 204-141 | 4½" (11.4cm), 2 x 3 blunt prongs, 15mm deep |
| 205-150 | 204-150 | 5½" (14cm), 3 x 4 sharp prongs, 17mm deep |
| 205-151 | 204-151 | 5½" (14cm), 3 x 4 blunt prongs, 17mm deep |
| 205-155 | 204-155 | 6½" (16.5cm), 3 x 4 sharp prongs, 18mm deep |
| 205-156 | 204-156 | 6½" (16.5cm), 3 x 4 blunt prongs, 18mm deep |
| 205-160 | 204-160 | 8" (20.3cm), 3 x 4 sharp prongs, 20mm deep |
| 205-161 | 204-161 | 8" (20.3cm), 3 x 4 blunt prongs, 20mm deep |
| 205-165 | 204-165 | 9½" (24.1cm), 3 x 4 sharp prongs, 27mm deep |
| 205-166 | 204-166 | 9½" (24.1cm), 3 x 4 blunt prongs, 27mm deep |



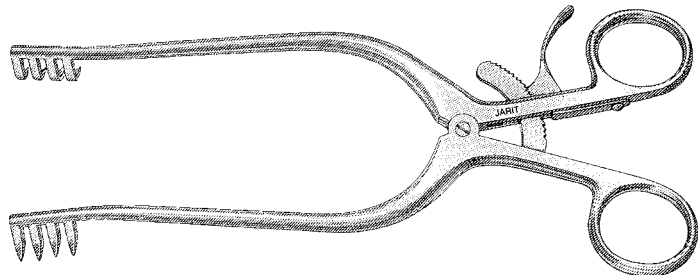
WEITLANER Retractors,
hinged blades

- | | |
|----------------|---|
| 205-175 | 5½" (14cm), 3 x 4 sharp prongs, 18mm deep |
| 205-176 | 5½" (14cm), 3 x 4 blunt prongs, 18mm deep |
| 205-180 | 6¾" (15.9cm), 3 x 4 sharp prongs, 18mm deep |
| 205-181 | 6¾" (15.9cm), 3 x 4 blunt prongs, 18mm deep |
| 205-190 | 8" (20.3cm), 3 x 4 sharp prongs, 20mm deep |

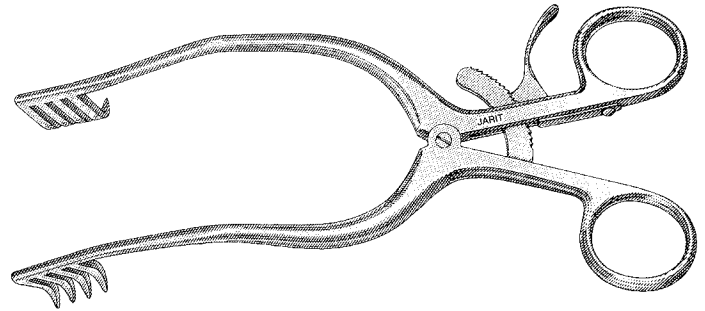


ADSON Cerebellar Retractors,
7½" (19.1cm)

- | | |
|----------------|-------------------------------|
| 205-200 | 4 x 4 sharp prongs, 22mm deep |
| 205-201 | 4 x 4 blunt prongs, 22mm deep |



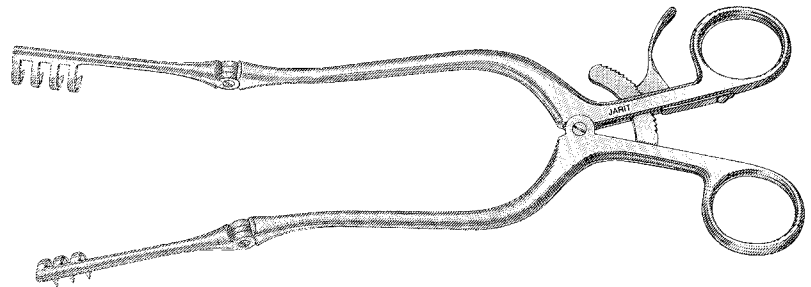
205-205 **ADSON** Cerebellar Retractor,
7 $\frac{1}{4}$ " (18.4cm), angular, 4 x 4 sharp prongs,
22mm deep



BECKMAN Thyroid Retractors

205-209 9 $\frac{1}{2}$ " (24.1cm), 3 x 4 sharp prongs,
1 $\frac{1}{8}$ " deep (2.8cm)

205-210 12 $\frac{1}{2}$ " (31.4cm), 4 x 4 sharp prongs,
 $\frac{5}{8}$ " deep (1.6cm)



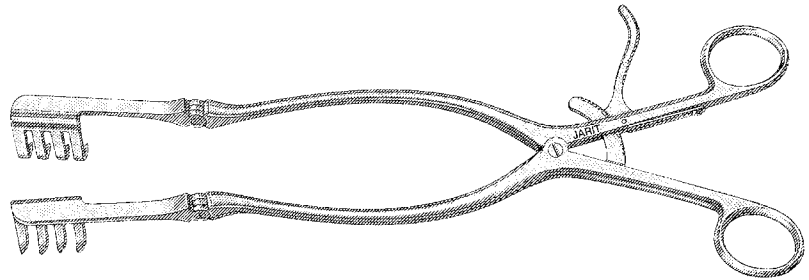
BECKMAN-ADSON Retractors,
12" (30.5cm)

205-220 4 x 4 sharp prongs,
1" x 1" deep (2.5 x 2.5cm)

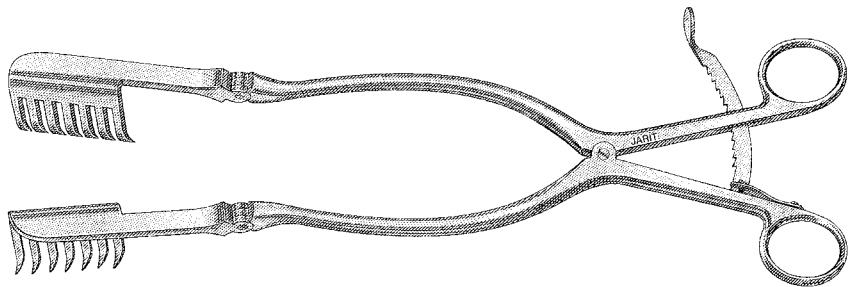
205-221 4 x 4 blunt prongs,
1" x 1" deep (2.5 x 2.5cm)

205-225 4 x 4 sharp prongs,
1" x 1 $\frac{1}{4}$ " deep (2.5 x 4.4cm)

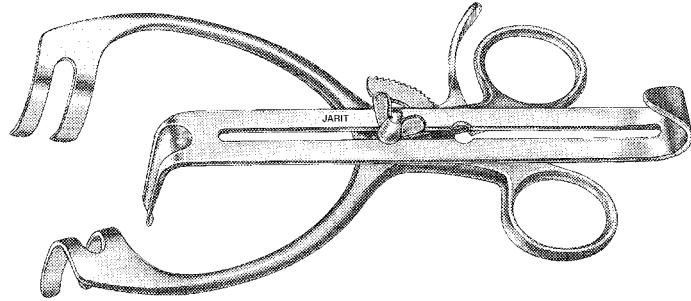
205-226 4 x 4 blunt prongs,
1" x 1 $\frac{1}{4}$ " deep (2.5 x 4.4cm)



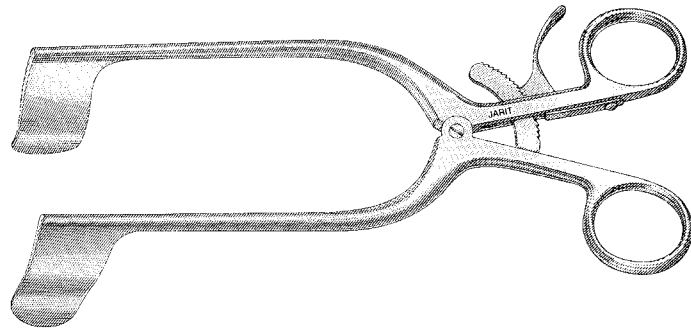
205-230 **BECKMAN-EATON** Retractor,
12 $\frac{1}{2}$ " (31.8cm), 7 x 7 sharp prongs,
1 $\frac{1}{4}$ " x 1 $\frac{1}{8}$ " deep (4.4 x 4.8cm)



205-235 **MAYO-ADAMS** Retractor,
6 $\frac{3}{4}$ " (17.1cm), removable center blade



205-237 **RIGBY** Retractor,
7 $\frac{1}{2}$ " (19.1cm), blades $\frac{1}{8}$ " x 2 $\frac{1}{2}$ " deep (2.1cm x 6.4cm)



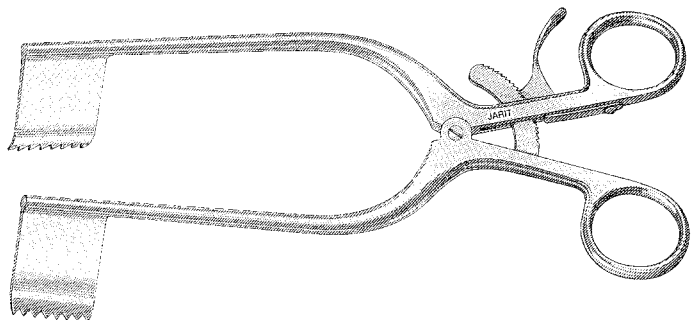
MEYERDING Laminectomy Retractors,
7 $\frac{1}{2}$ " (19.1cm)

205-240 Blades 1" x 1 $\frac{1}{4}$ " deep (2.5 x 3.2cm)

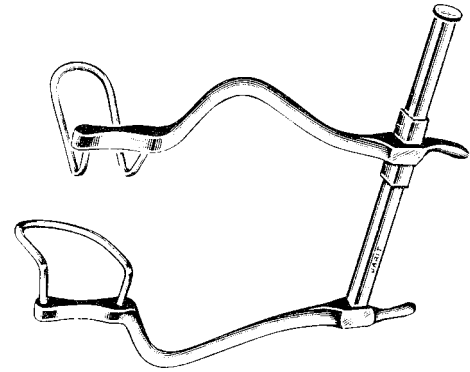
205-242 Blades 1" x 2 $\frac{1}{2}$ " deep (2.5 x 5.4cm)

205-244 Blades $\frac{3}{4}$ " x 2 $\frac{1}{2}$ " deep (1.9 x 6cm)

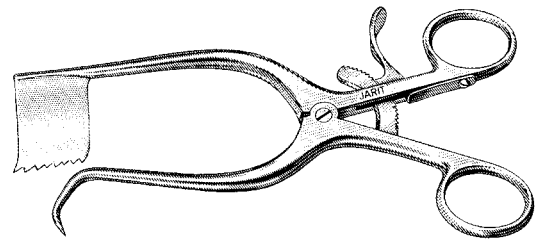
205-245 Blades 1" x 2 $\frac{1}{2}$ " deep (2.5 x 6cm)



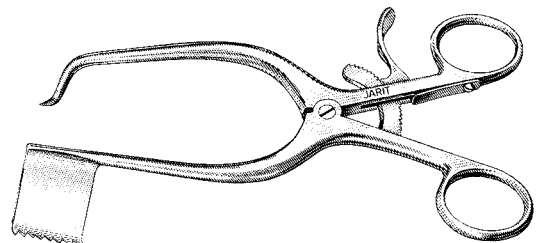
205-251 GOSSET Retractor,
5½" (14cm) spread, blades 1" x 2½" deep (2.5 x 6.4cm)



205-255 MARKHAM-MEYERDING Hemilaminectomy Retractor,
6¾" (17.1cm), blade 1" x 2½" deep (2.5 x 6.4cm),
blade on right side

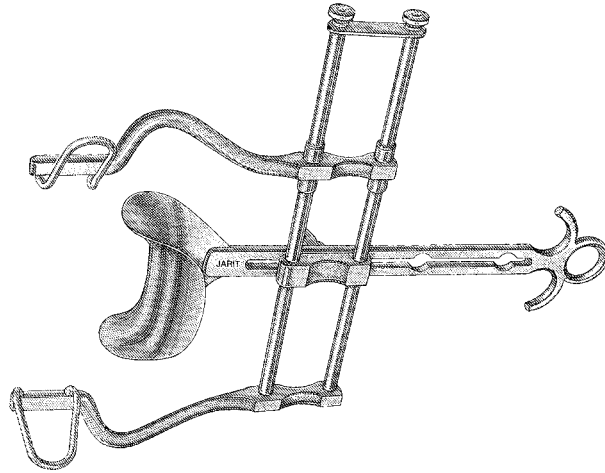


205-256 MARKHAM-MEYERDING Hemilaminectomy Retractor,
6¾" (17.1cm), blade 1" x 2½" deep (2.5 x 6.4cm),
blade on left side

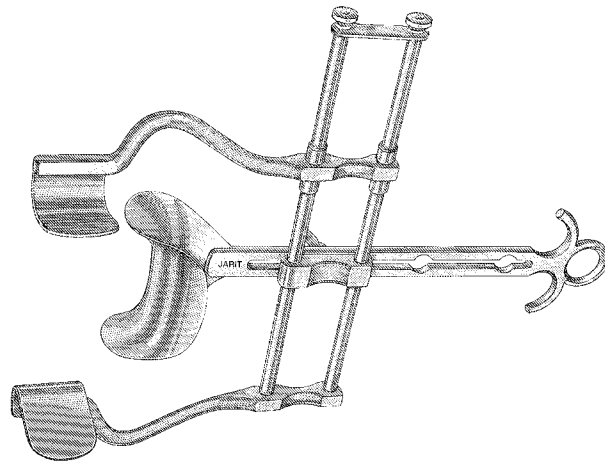


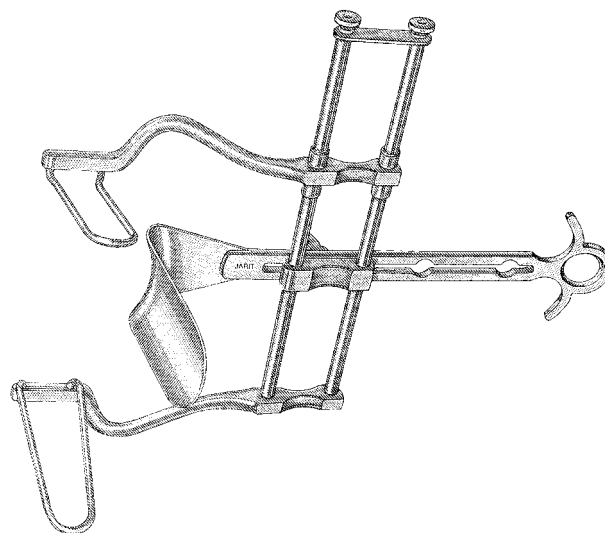
BALFOUR Abdominal Retractors,
with wire lateral blades 2" (5.1cm) deep
and center blade 3" wide x 2" deep (7.6cm x 5.1cm)

- 205-270** 7" (17.8cm) spread
- 205-275** 10" (25.4cm) spread



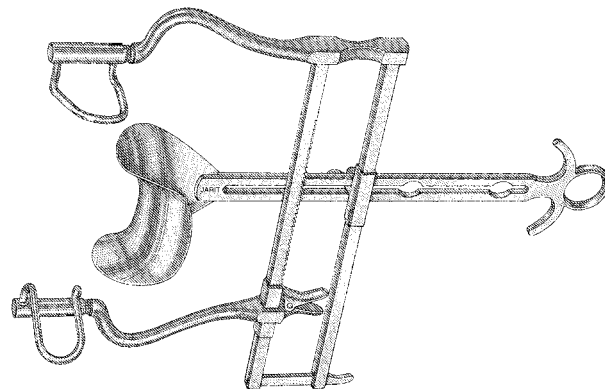
- 205-280** **BALFOUR** Abdominal Retractor
7" (17.8cm) spread,
with solid lateral blades 2" (5.1cm) deep and
center blade 3" wide x 2" deep (7.6cm x 5.1cm)





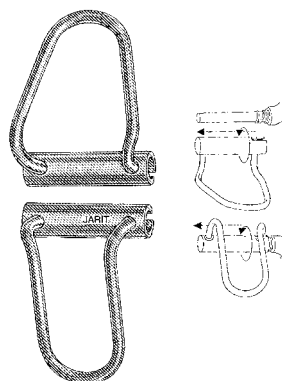
BALFOUR Abdominal Retractors,
with wire lateral blades 4" (10.1cm) deep
and center blade 2½" wide x 4" deep (6.4cm x 10.1cm)

- 205-290** 7" (17.8cm) spread
- 205-291** 10" (25.4cm) spread



BALFOUR Abdominal Retractors with Ratchet Bar

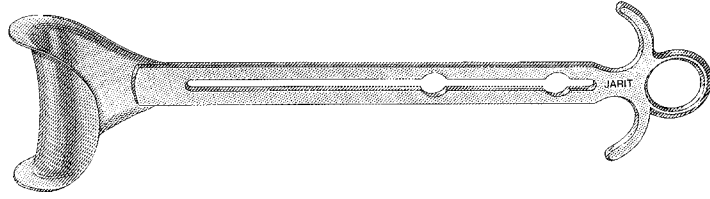
- 205-295** 7" (17.8cm) spread.
Set includes a pair of 2" (5.1cm) and 3" (7.6cm) deep interchangeable wire lateral blades; also one center blade 2½" wide x 1½" deep (6.7cm x 3.8cm) and one center blade 3¼" wide x 2¾" deep (8.3cm x 7cm)
- 205-296** 10" (25.4cm) spread.
Set includes a pair of 2" (5.1cm) and 4" (10.1cm) deep interchangeable wire lateral blades; also one center blade 3" wide x 2" deep (7.6cm x 5.1cm) and one center blade 2½" wide x 4" deep (6.4cm x 10.1cm)



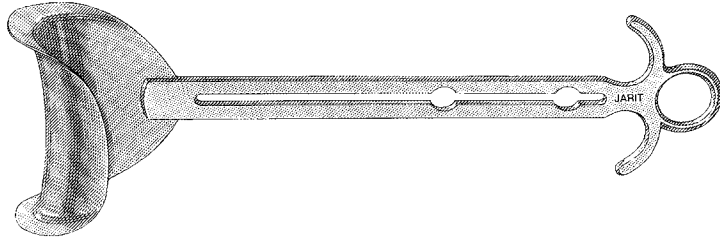
BALFOUR Wire Lateral Blades
for 205-295 and 205-296

- 205-335** 2" (5.1cm) deep
- 205-336** 3" (7.6cm) deep
- 205-337** 4" (10.2cm) deep

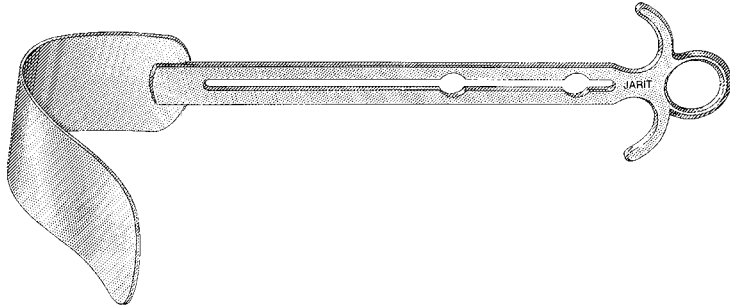
205-292 **BALFOUR** Center Blade
Standard,
2 $\frac{1}{2}$ " wide x 1 $\frac{1}{2}$ " deep (6.7cm x 3.8cm)



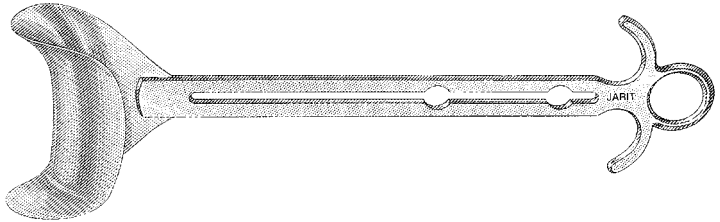
205-293 **BALFOUR** Center Blade
Supra-Pubic,
3 $\frac{1}{4}$ " wide x 2 $\frac{3}{4}$ " deep (8.2cm x 6.9cm)



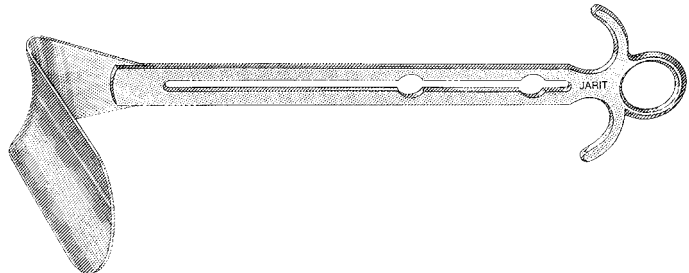
205-294 **BALFOUR** Center Blade
HORGAN, malleable,
2" wide x 5" deep (5.1cm x 12.6cm)



205-298 **BALFOUR** Center Blade
Standard,
3" wide x 2" deep (7.6cm x 5.1cm)

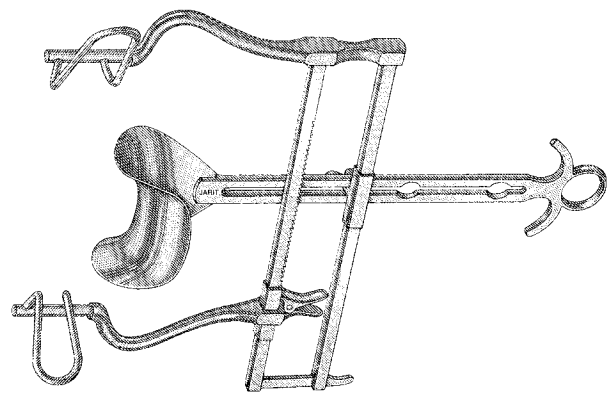


205-299 **BALFOUR** Center Blade
Extra deep,
2 $\frac{1}{2}$ " wide x 4" deep (6.4cm x 10.1cm)

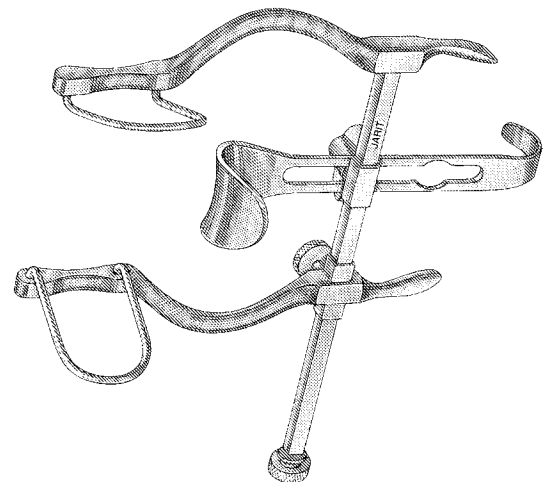


205-300 **BALFOUR** Abdominal Retractors with Ratchet Bar
7" (17.8cm) spread,
with 2" (5.1cm) deep wire lateral blades and
center blade 3" wide x 2" deep (7.6cm x 5.1cm)

205-305 7" (17.8cm) spread,
with 4" (10.1cm) deep wire lateral blades and
center blade 2½" wide x 4" deep (6.4cm x 10.1cm)



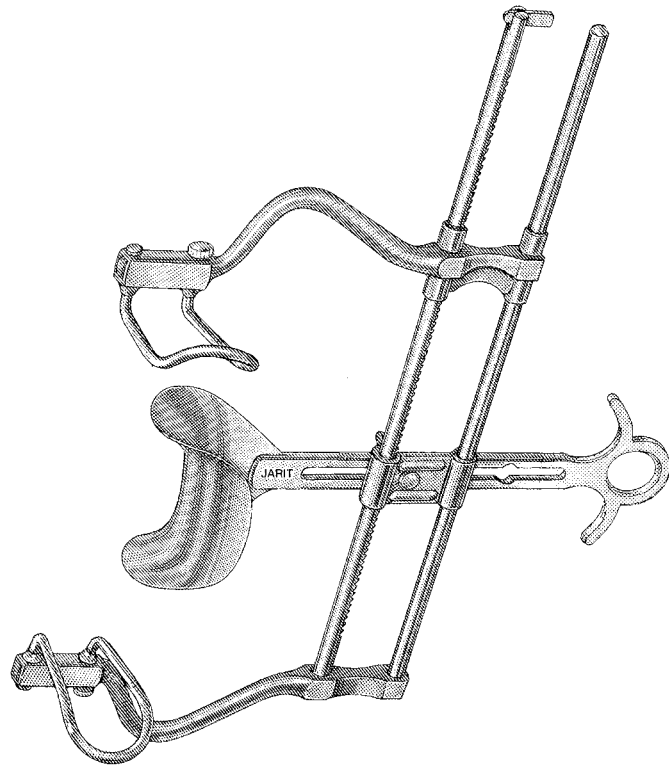
205-310 **BALFOUR** Abdominal Retractor,
3½" (8.9cm) spread, pediatric size,
with 1½" (3.5cm) deep wire lateral blades and
center blade ¾" wide x ¾" deep (2.2cm x 2.2cm)



BALFOUR Abdominal Retractors with Ratchet Bar Positioning Mechanism

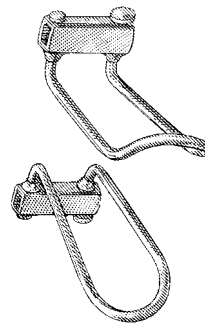
205-315 7 $\frac{1}{4}$ " (19.7cm) spread.
Set includes a pair of 2 $\frac{1}{2}$ " (6.4cm) and 3 $\frac{1}{2}$ " (8.8cm) deep interchangeable wire lateral blades and one center blade 2 $\frac{1}{2}$ " wide x 1 $\frac{1}{2}$ " deep (6.7cm x 4.1cm). Snap-on lateral blades can be attached and removed in seconds.

205-316 10 $\frac{1}{2}$ " (26.7cm) spread.
Set includes a pair of 2 $\frac{1}{2}$ " (6.4cm) and 3 $\frac{1}{2}$ " (8.8cm) deep interchangeable wire lateral blades and one center blade 2 $\frac{1}{2}$ " wide x 2 $\frac{3}{4}$ " deep (6.7cm x 6.9cm). Snap-on lateral blades can be attached and removed in seconds.

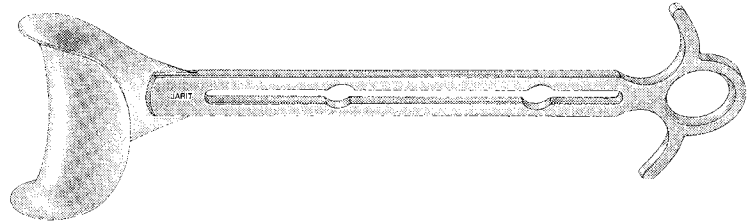


BALFOUR Wire Lateral Blades for 205-315 and 205-316

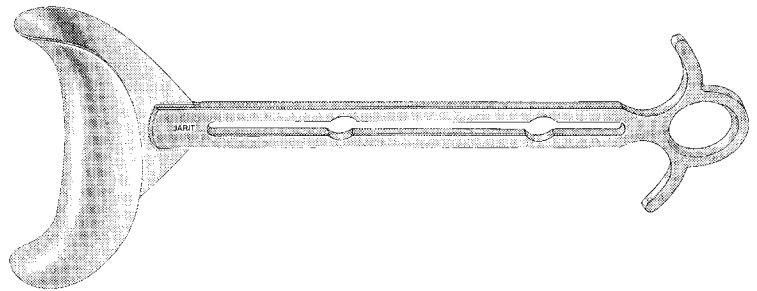
- 205-330** 2 $\frac{1}{2}$ " (6.4cm) deep
- 205-331** 3 $\frac{1}{2}$ " (8.8cm) deep
- 205-332** 4" (10.1cm) deep



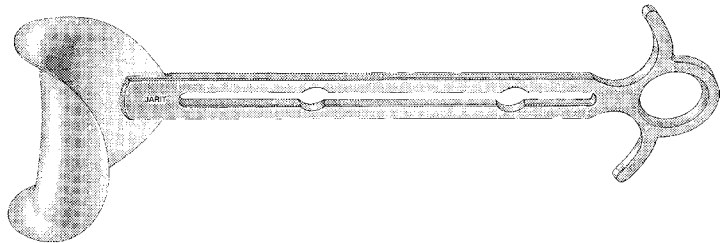
205-320 **BALFOUR** Center Blade for
205-315 and 205-316
Standard,
2 $\frac{1}{2}$ " wide x 1 $\frac{1}{2}$ " deep (6.7cm x 4.1cm)



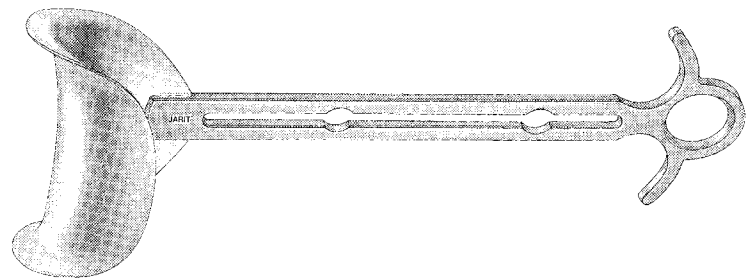
205-321 **BALFOUR** Center Blade for
205-315 and 205-316
Standard,
3" wide x 1 $\frac{1}{4}$ " deep (9.2cm x 4.4cm)



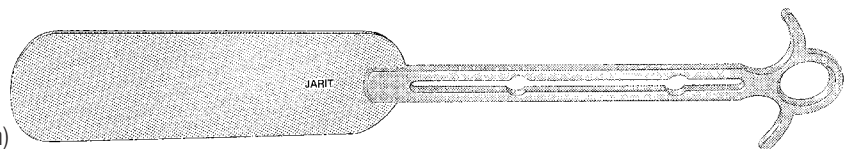
205-322 **BALFOUR** Center Blade for
205-315 and 205-316
Supra-Pubic,
2" wide x 2 $\frac{3}{4}$ " deep (6.7cm x 6.9cm)

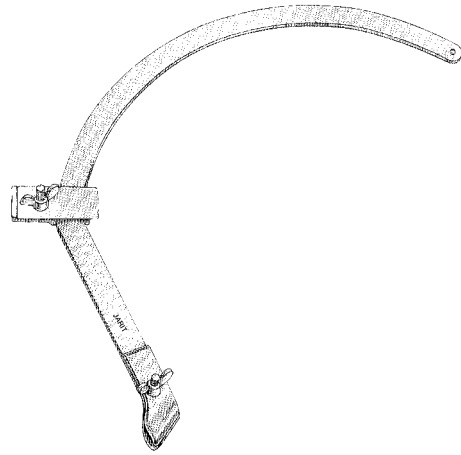


205-323 **BALFOUR** Center Blade for
205-315 and 205-316
Supra-Pubic,
3 $\frac{1}{4}$ " wide x 2 $\frac{3}{4}$ " deep (8.2cm x 6.9cm)



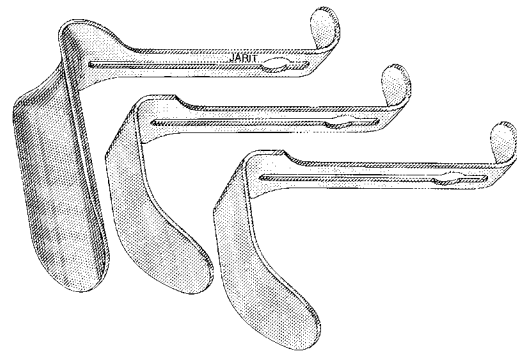
205-324 **BALFOUR** Center Blade for
205-315 and 205-316
HORGAN, malleable,
2" wide x 6 $\frac{1}{2}$ " deep (5.1cm x 16.5cm)





BALFOUR Fourth Blade Attachments,
for 205-315 and 205-316 (center blade not included)

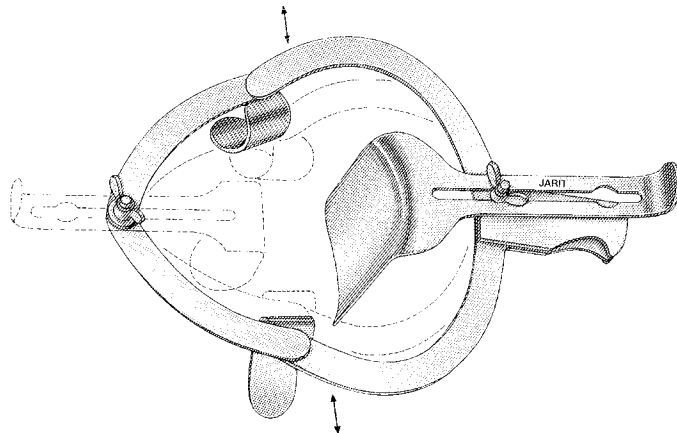
- 205-312** For right arm
- 205-313** For left arm (illustrated)



205-325 O'SULLIVAN-O'CONNOR Abdominal Retractor,
with 3 removable and 2 fixed blades

Removable blades:
1 3/4" x 3" deep (4.4cm x 7.6cm)
1 3/4" x 3" deep (4.4cm x 7.6cm)
2 3/4" x 4 1/4" deep (7cm x 10.8cm)

Fixed blades:
1" x 2 1/2" deep (2.5cm x 6.7cm)

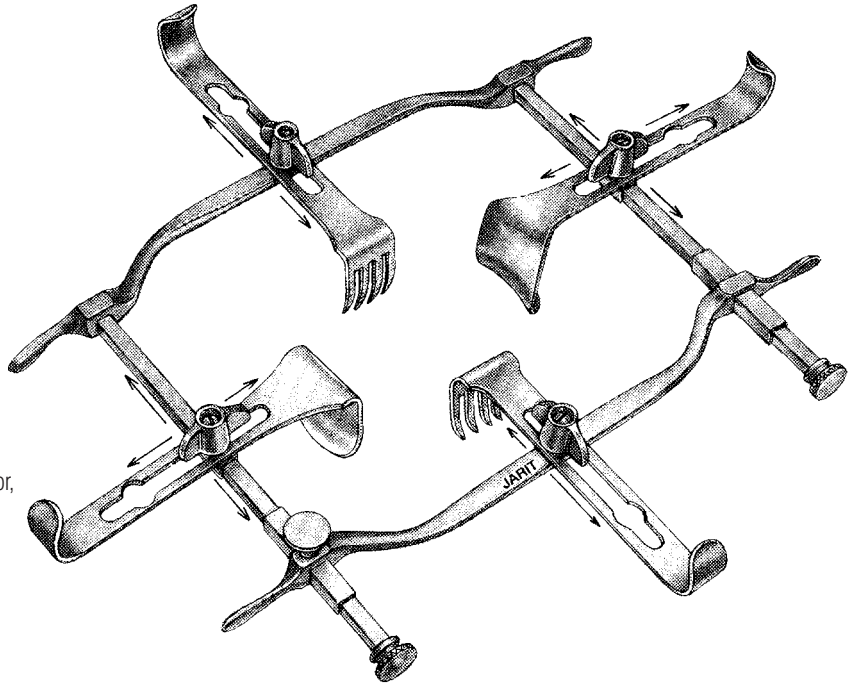


SETON SHALLOW

The patented Seton* Shallow Surgical Retractor is a four-sided, stainless steel surgical retractor developed to aid the surgeon during shallow or superficial surgery, such as hernias (groin, ventral, and incisional), femoral-popliteal bypass surgery, urological surgical procedures,

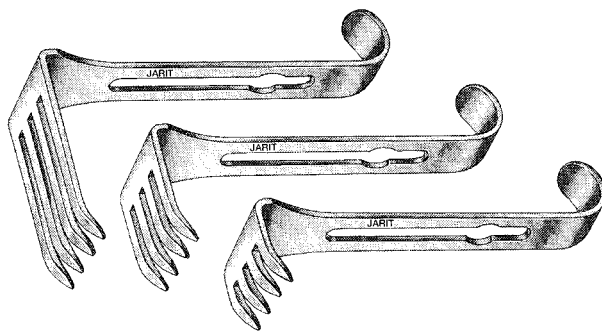
varicose vein surgery, certain orthopedic procedures, soft tissue excisions, biopsies or thyroid surgery. The combination of different retractor blades, toothed or cupped, can be used to accommodate various body builds, wound depths and types of procedures.

- A steady, non-slipping operative field.
- A complete, obstruction-free surgical window.
- A reduction of extraneous motion, fatigue and constant repositioning.
- An operative window that can be incrementally increased or decreased.
- The ability to perform an unassisted surgical procedure.
- U.S. Patent No. 5,299,563



205-500 SETON Shallow Surgical Retractor, complete

205-502 SETON Retractor Frame

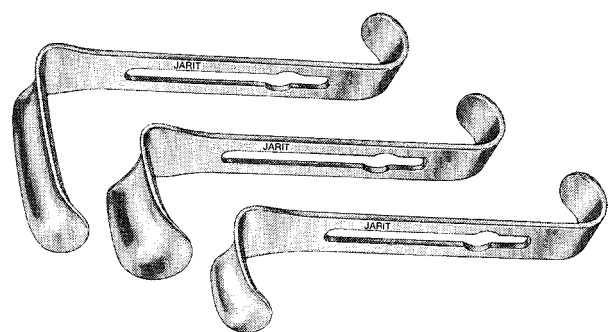


SETON Retractor Blades

205-504 4 prong semi-sharp, set of two, 1" x 2" deep (2.5cm x 5.1cm)

205-506 4 prong semi-sharp, set of two, 1" x 1 1/2" deep (2.5cm x 2.9cm)

205-508 4 prong semi-sharp, set of two, 1" x 1 1/8" deep (2.5cm x 1.9cm)



205-510 BALFOUR-type, set of two, 1 3/8" x 2" deep (2.1cm x 5.1cm)

205-512 BALFOUR-type, set of two, 1 1/8" x 1 1/4" deep (2.7cm x 3.2cm)

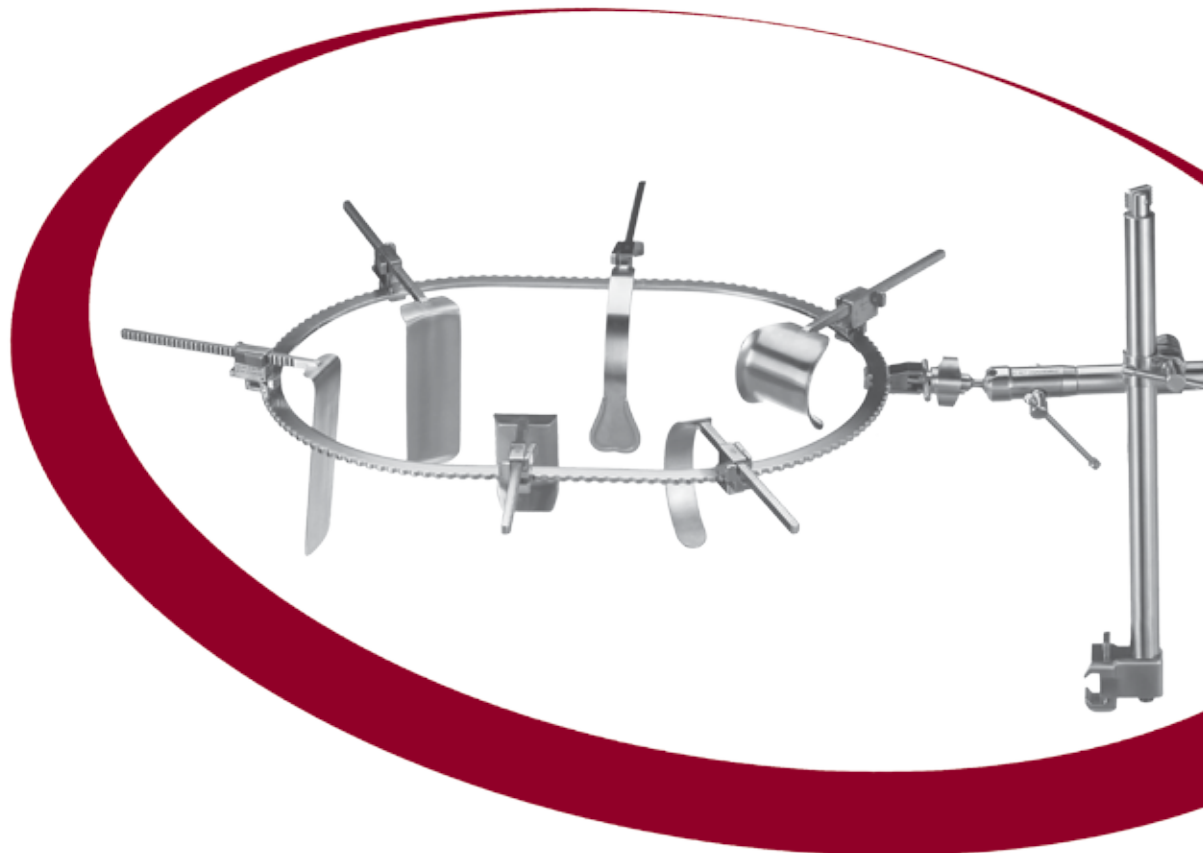
205-514 BALFOUR-type, set of two, 1 1/8" x 1" deep (2.1cm x 2.5cm)

*Developed in cooperation with Joseph Z. Seton, M.D., Lenox Hill Hospital, New York, New York.

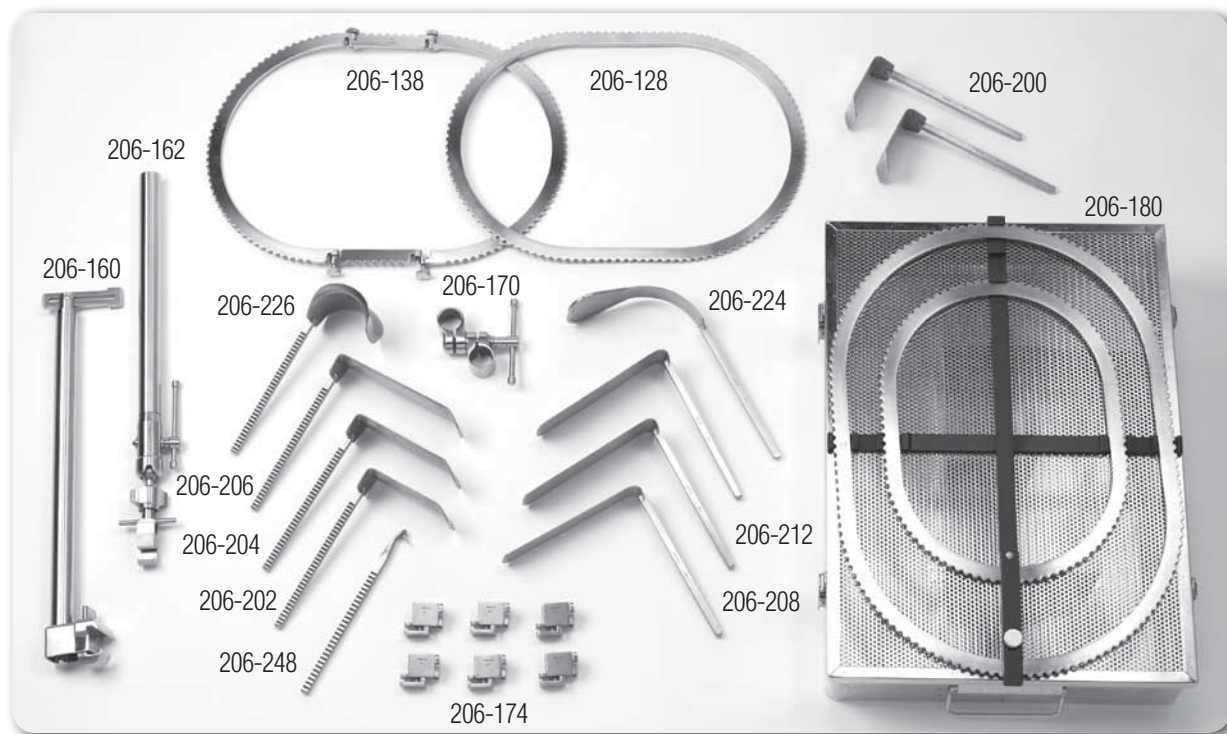


Retraction System

- JariTrak can be used effectively for many abdominal and pelvic procedures.
- JariTrak assembles easily and provides optimal wound exposure.
- JariTrak is similar to the Bookwalter* Retraction System.



* Bookwalter is a Trademark of Codman & Shurtleff, Inc..



206-102 JARITRAK Abdominal Kit,
includes the following:

- | | | | |
|----------------|--|----------------|---|
| 206-128 | JARITRAK Oval Ring,
medium, 10½" x 15" | 206-202 | JARITRAK Kelly Blade,
medium, 2" x 4" |
| 206-138 | JARITRAK Segmented Ring,
medium, 10½" x 15" | 206-204 | JARITRAK Kelly Blade,
large, 2" x 5" |
| 206-160 | JARITRAK Table Clamp,
1" diameter, vertical post | 206-206 | JARITRAK Kelly Blade,
extra large, 2" x 6" |
| 206-162 | JARITRAK Horizontal Flex Bar,
1" diameter, universal joint | 206-208 | JARITRAK Malleable Blade,
small, 1½" x 6" |
| 206-170 | JARITRAK Post Clamp,
1" diameter | 206-212 | JARITRAK Malleable Blade,
set of two, medium, 2" x 6" |
| 206-174 | JARITRAK Tilting Blade Clamp,
set of six | 206-226 | JARITRAK Balfour Blade,
small, 3" x 2½" |
| 206-180 | JARITRAK Sterilization Kit | 206-244 | JARITRAK Harrington Blade,
2½" x 5" |
| 206-200 | JARITRAK Kelly Blade,
set of two, small, 2" x 3" | 206-248 | JARITRAK Gelpi Blade |



SELF-RETAINING RETRACTORS

206-100 **JARITRAK** Abdominal Aortic Aneurysm Set,
includes the following:

206-124 **JARITRAK** Oval Ring,
small, 8½" x 12"

206-128 **JARITRAK** Oval Ring,
medium, 10½" x 15"

206-132 **JARITRAK** Oval Ring,
large, 12½" x 16½"

206-160 **JARITRAK** Table Clamp,
1" diameter, vertical post

206-162 **JARITRAK** Horizontal Flex Bar,
1" diameter, universal joint

206-170 **JARITRAK** Post Clamp,
1" diameter

206-174 **JARITRAK** Tilting Blade Clamp,
set of four

206-180 **JARITRAK** Sterilization Kit

206-200 **JARITRAK** Kelly Blade,
small, 2" x 3"

206-202 **JARITRAK** Kelly Blade,
medium, 2" x 4"

206-212 **JARITRAK** Malleable Blade,
medium, 2" x 6"

206-214 **JARITRAK** Malleable Blade,
medium, deep, 2" x 8"

206-226 **JARITRAK** Balfour Blade,
small, 3" x 2½"

206-106 **JARITRAK** Pediatric Set,
includes the following:

206-126 **JARITRAK** Round Ring,
small, 8½"

206-142 **JARITRAK** Round Segmented Ring,
small, inside diameter 8½"

206-160 **JARITRAK** Table Clamp,
1" diameter, vertical post

206-162 **JARITRAK** Horizontal Flex Bar,
1" diameter, universal joint

206-170 **JARITRAK** Post Clamp,
1" diameter

206-174 **JARITRAK** Tilting Blade Clamp,
set of four

206-300 **JARITRAK** Richardson Blade,
set of two, child, ¾" x 1"

206-302 **JARITRAK** Richardson Blade,
child, ¾" x 2"

206-304 **JARITRAK** Richardson Blade,
child, 1" x 1½"

206-316 **JARITRAK** Kelly Blade,
child, 1" x 2½"

206-326 **JARITRAK** Malleable Blade,
small, child, 1½" x 4¾"

206-328 **JARITRAK** Malleable Blade,
large, child, 2" x 4¾"

206-330 **JARITRAK** Balfour Blade,
child, 2¼" x 1½"

206-332 **JARITRAK** Deavor Blade,
small, ¾" x 3"

206-184 **JARITRAK** Sterilization Case,
pediatric

JARITRAK SELF-RETAINING RETRACTORS

206-104 **JARITRAK** IMA Set,
includes the following:

206-160 **JARITRAK** Table Clamp,
1" diameter, vertical post

206-168 **JARITRAK** Horizontal Solid Bar,
1" diameter

206-170 **JARITRAK** Post Clamp,
1" diameter

206-182 **JARITRAK** IMA Sterilization Case

206-250 **JARITRAK** IMA Cross Bar

206-252 **JARITRAK** IMA Retractor Blade,
with Clamp Assembly, two pieces

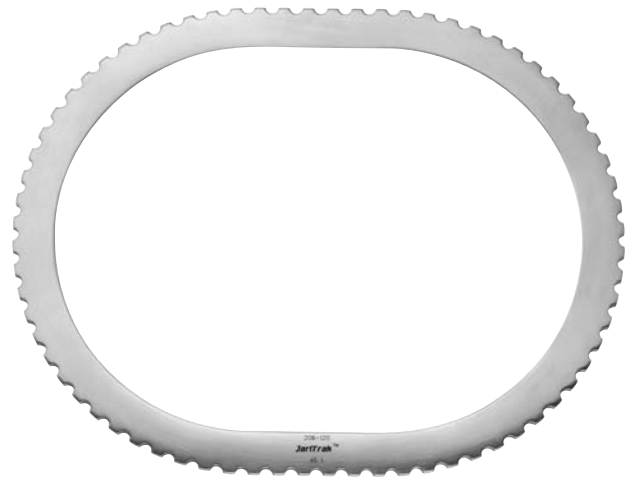
JARITRAK Oval Ring

206-120 extra small, 6" x 7¼"

206-124 small, 8½" x 12"

206-128 medium, 10½" x 15"

206-132 large, 12½" x 18½"



JARITRAK Round Ring

206-122 extra small, inside diameter 7"

206-126 small, inside diameter 8½"

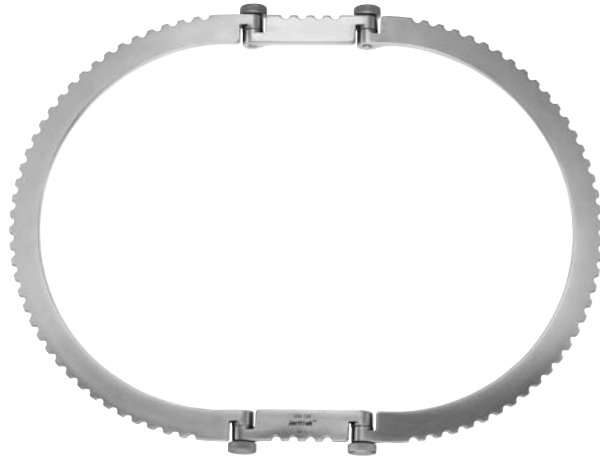
206-130 medium, inside diameter 10½"

206-134 large, inside diameter 12½"



JARITRAK Oval Segmented Ring

- 206-136** small, diameter 8½" x 12"
- 206-138** medium, diameter 10½" x 15"
- 206-140** large, diameter 12½" x 18½"



- 206-142** **JARITRAK** Round Segmented Ring, small, inside diameter 8½"



- 206-160** **JARITRAK** Table Clamp, 1" diameter, vertical post



- 206-162** **JARITRAK** Horizontal Flex Bar, 1" diameter, universal joint



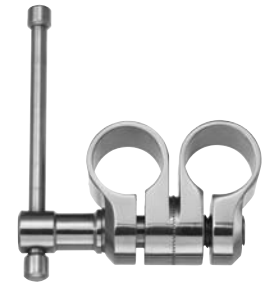
- 206-164** **JARITRAK** Bariatric Extension Bar, 1" diameter, vertical extension



- 206-168** **JARITRAK** Horizontal Solid Bar, 1" diameter



206-170 JARITRAK Post Clamp,
1" diameter



206-172 JARITRAK Standard Blade Clamp

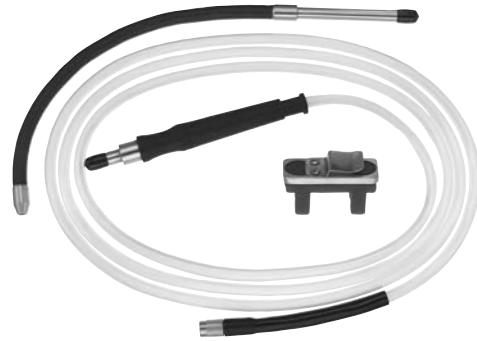


206-174 JARITRAK Tilting Blade Clamp



206-175 JARITRAK Rotating Blade Clamp





206-176 JARITRAK Illumination Kit

JARITRAK Kelly Blade

- 206-196** xx small, 2" x 1½"
- 206-198** x small, 2" x 2½"
- 206-200** small, 2" x 3"
- 206-202** medium, 2" x 4"
- 206-204** large, 2" x 5"
- 206-206** x large, 2" x 6"
- 206-207** xx large, 2" x 8"



JARITRAK Malleable Blade

- 206-208** small, 1½" x 6"
- 206-210** small, deep, 1½" x 8"
- 206-212** medium, 2" x 6"
- 206-214** medium, deep, 2" x 8"
- 206-216** large, 3" x 6"
- 206-218** large, deep, 3" x 8"



JARITRAK Malleable Blade

- 206-220** notched, 2" x 6"
- 206-222** notched, 2½" x 7"



JARITRAK Deaver Blade

- 206-232** small, 1" x 4½"
- 206-234** medium, 1½" x 4½"
- 206-238** large, 2" x 4½"



JARITRAK Balfour Blade

- 206-226** small, 3" x 2½"
- 206-228** large, 3" x 3¼"
- 206-230** x large, 3" x 3"

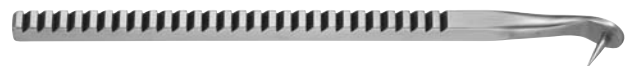


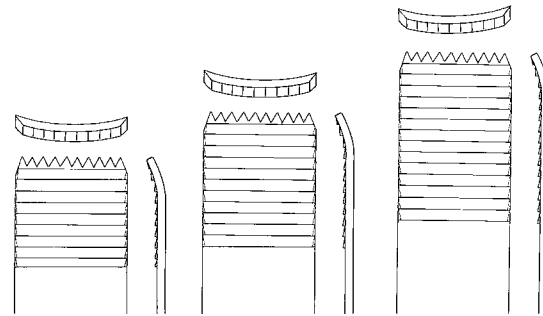
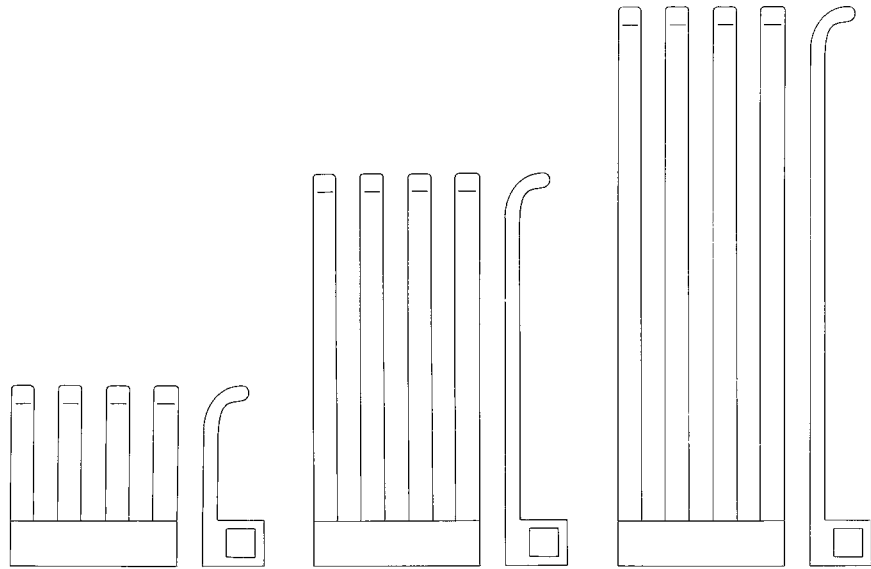
JARITRAK Harrington Blade

- 206-242** 1½" x 5"
- 206-244** 2½" x 5"



- 206-248** **JARITRAK** Gelpi Blade

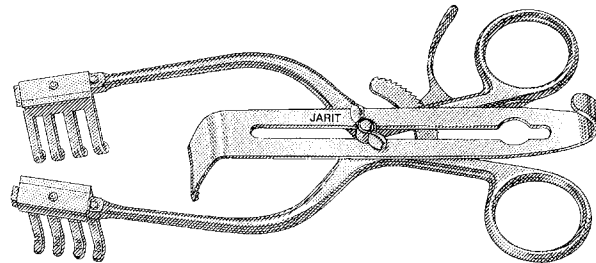




205-530 HENLY Retractor,
6½" (16.5cm), improved pattern,
with interchangeable lateral and center blades

Complete set includes:
1 frame

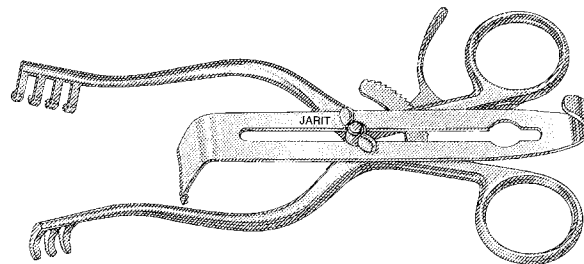
- 205-532** 1 pair lateral blades, blunt, ¾" wide x 1" deep (2.2cm x 2.5cm)
- 205-534** 1 pair lateral blades, blunt, ¾" wide x 2" deep (2.2cm x 5.1cm)
- 205-536** 1 pair lateral blades, blunt, ¾" wide x 3" deep (2.2cm x 7.6cm)
- 205-540** 1 center blade, ¾" wide x ¾" deep (1.6cm x 1.9cm)
- 205-542** 1 center blade, ¾" wide x 1" deep (1.6cm x 2.5cm)
- 205-544** 1 center blade, ¾" wide x 1¼" deep (1.6cm x 3.2cm)



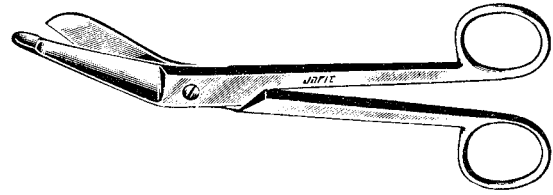
205-550 HENLY Retractor,
6½" (16.5cm), original pattern,
with 3 interchangeable center blades

Center blades measure:

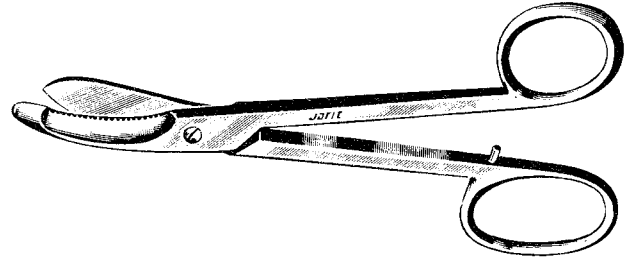
- 205-540** ¾" wide x ¾" deep (1.6cm x 1.9cm)
- 205-542** ¾" wide x 1" deep (1.6cm x 2.5cm)
- 205-544** ¾" wide x 1¼" deep (1.6cm x 3.2cm)



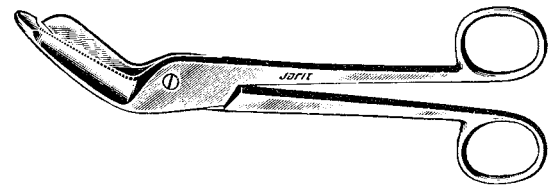
220-100 ESMARCH Plaster Shears,
8" (20.3cm)



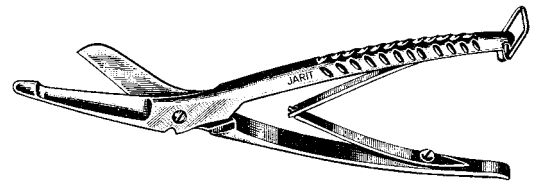
220-105 BRUNS Plaster Shears,
9½" (24.1cm)



220-110 JARIT Plaster Shears,
7½" (19.1cm), eccentric lock



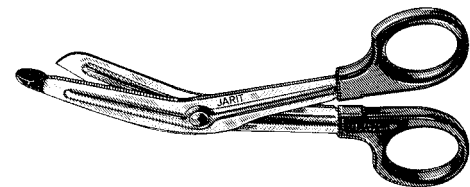
220-115 JARIT Plaster and Utility Shears,
8" (20.3cm), notched blade



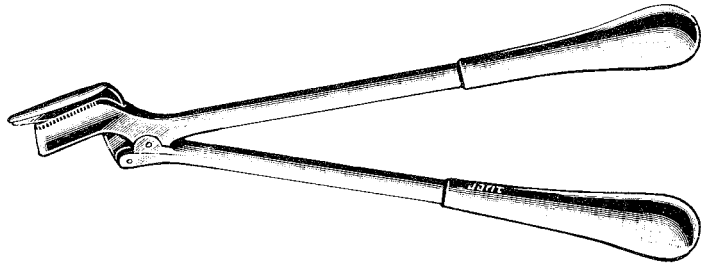
JARIT Utility Shears,
one serrated blade,
stainless steel with autoclavable plastic finger rings

100-539 5½" (14cm)

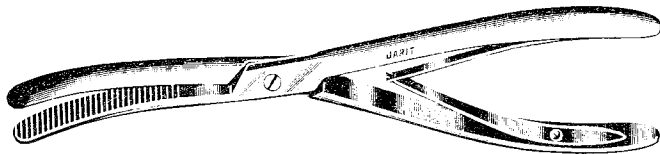
100-540 7" (17.8cm)



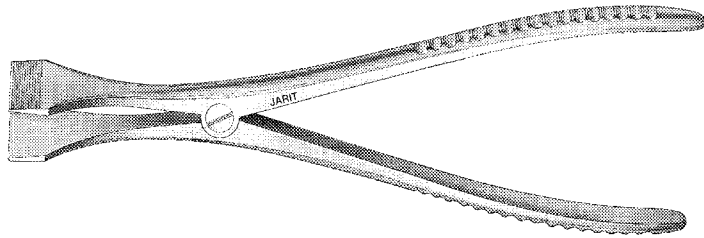
220-130 **STILLE** Plaster Shears,
15" (38.1cm)



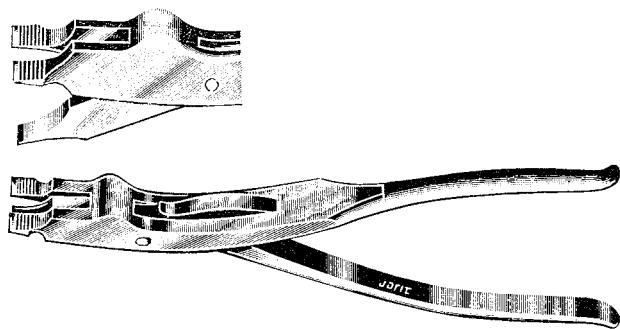
220-155 **WOLFE-BOEHLER** Cast Breaker,
9 1/4" (24.8cm)



220-175 **HENNIG** Cast Spreader,
10 3/4" (27.3cm)



220-180 **JARIT** 3 Prong Cast Spreader,
9" (22.8cm)

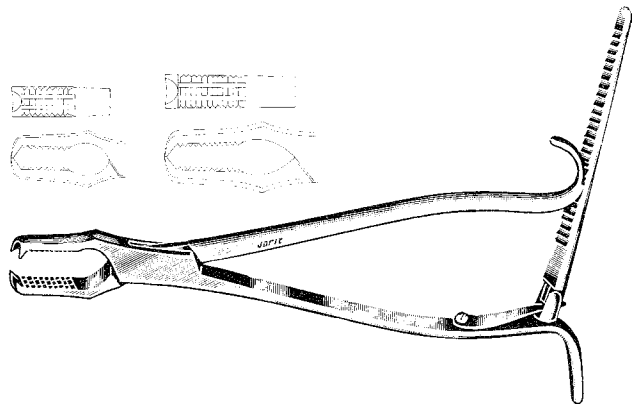


JARIT® BONE HOLDING CLAMPS

KERN Bone Holding Clamps,
ratchet

- 225-105** 5½" (14cm)
- 225-115** 8½" (21.6cm)

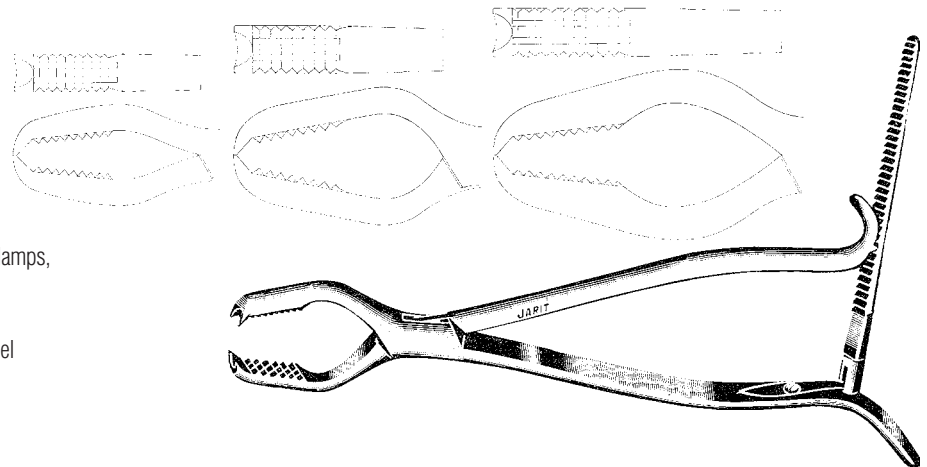
(Details Shown at ½ Size)



LANE Bone Holding Clamps,
ratchet

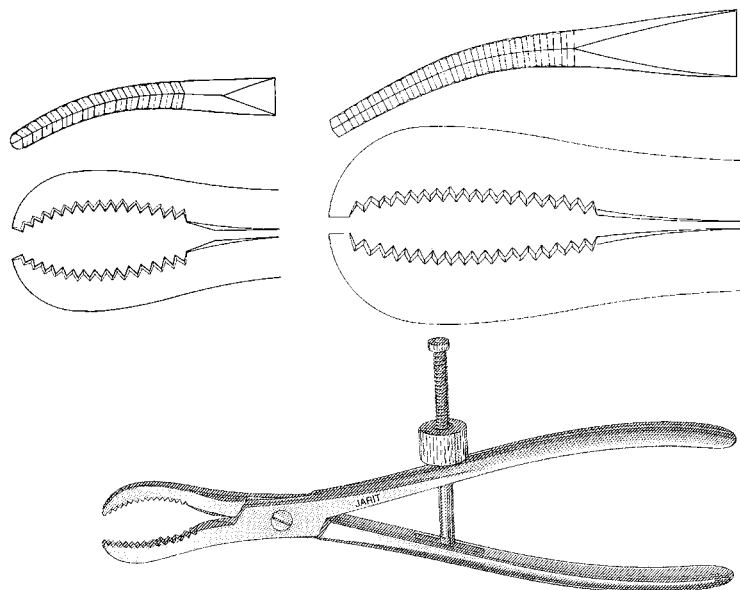
- 225-121** 13" (33cm)
- 225-126** 13" (33cm), heavy model
- 225-131** 17" (43.2cm)

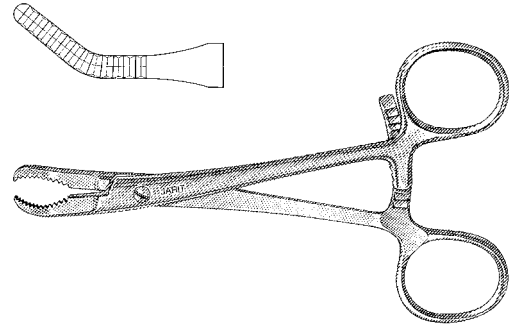
(Details Shown at ½ Size)



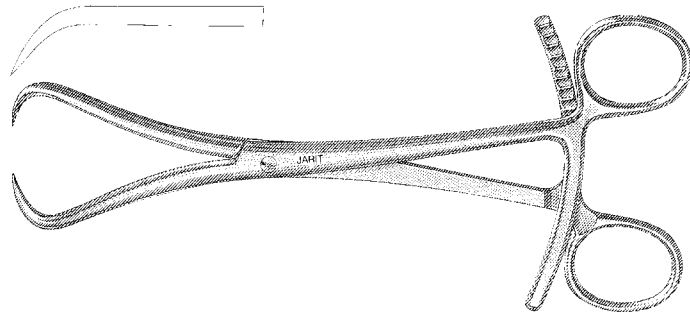
JARIT Bone Reduction Forceps,
speed lock, curved jaws

- 225-135** 7" (17.8cm)
- 225-136** 9" (22.8cm)



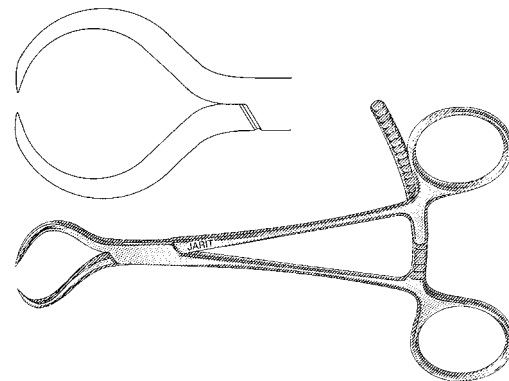


225-137 JARIT Bone Reduction Forceps,
5½" (14cm), curved jaws

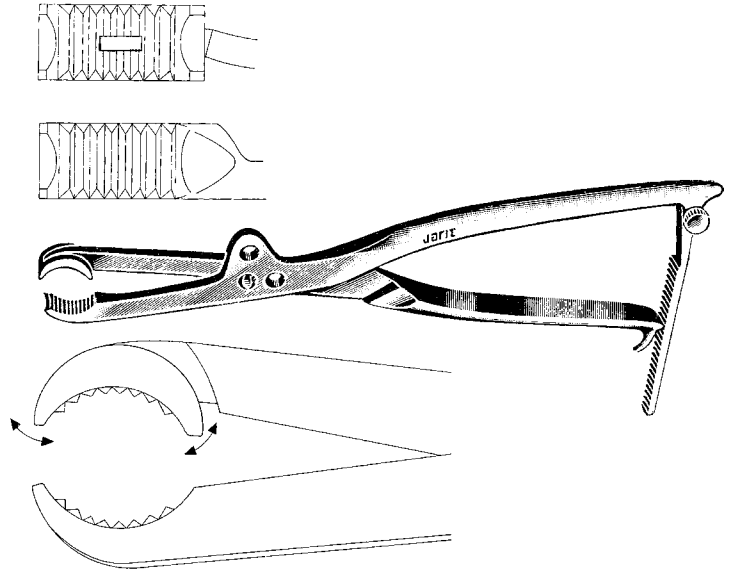


225-138 JARIT Bone Reduction Forceps,
8" (20.3cm), 2" (5.1cm) long ratchet,
jaw opening from ¾" to 4" (0.9cm x 10.1cm)

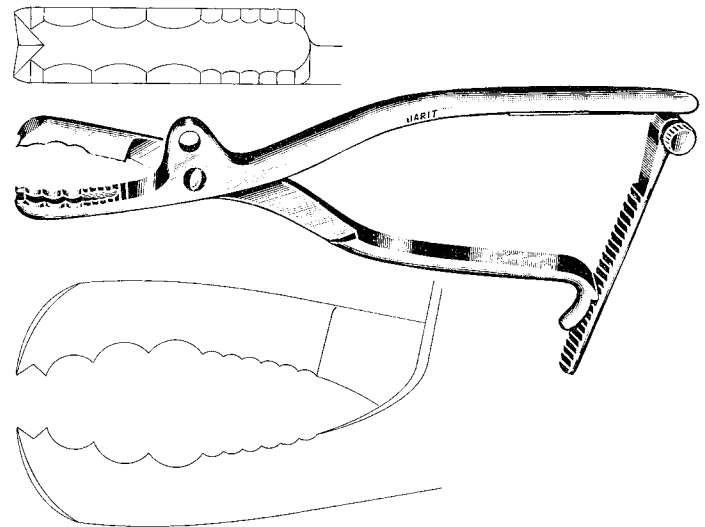
(Detail Shown at ½ Size)



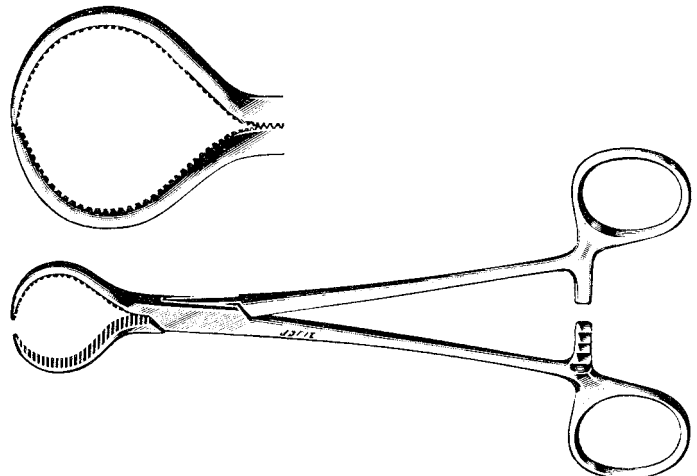
225-139 JARIT Bone Reduction Forceps,
6" (15.2cm), curved



225-162 LAMBOTTE Bone Holding Clamp,
12" (30.5cm)

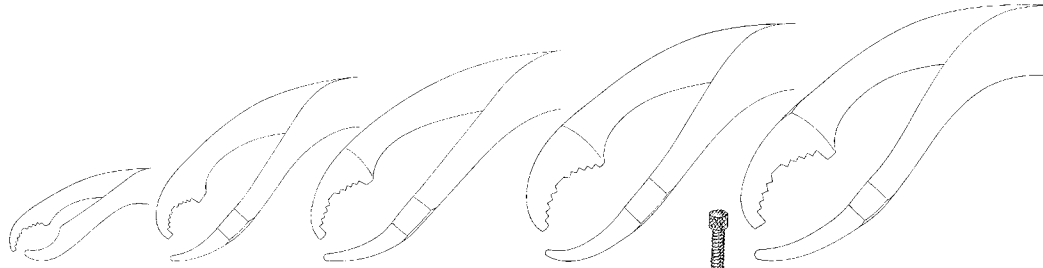


225-170 FARABEUF-LAMBOTTE Bone Holding Clamp,
10½" (26.7cm)



225-175 LEWIN Bone Holding Clamp,
7" (17.8cm)

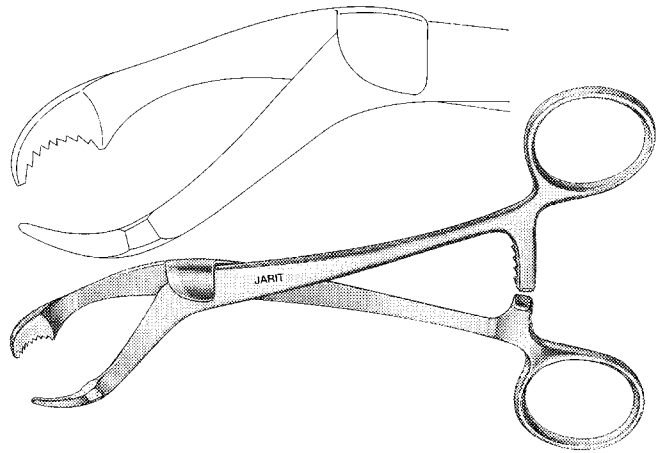
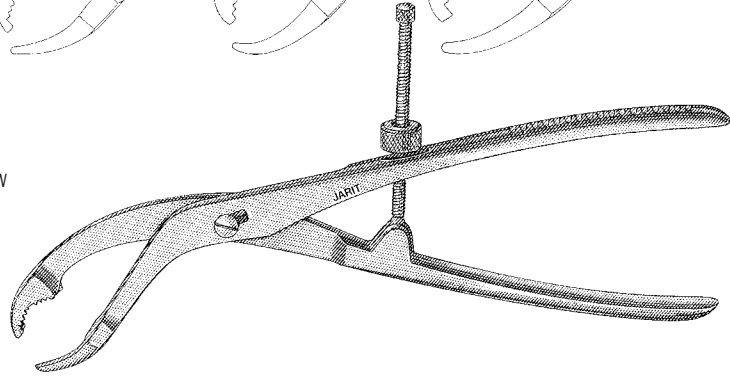
JARIT BONE HOLDING CLAMPS



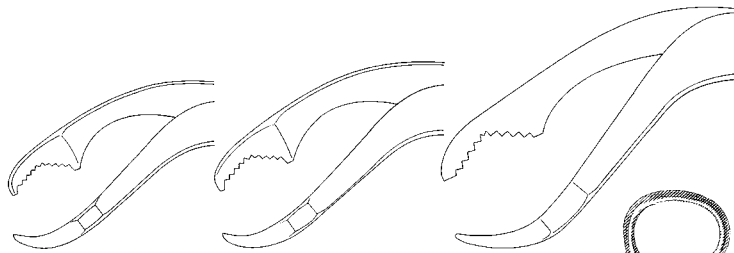
JARIT Bone Holding Clamps,
side angled, with speed lock

- 225-176** 5¼" (14.6cm), for small fragment, 3mm wide jaw
- 225-177** 7½" (19cm), 7mm wide jaw
- 225-178** 9½" (24.1cm), 10.5mm wide jaw
- 225-179** 10¾" (26cm), 11mm wide jaw
- 225-180** 11" (28cm), 11.5mm wide jaw

(Details Shown at ½ Size)



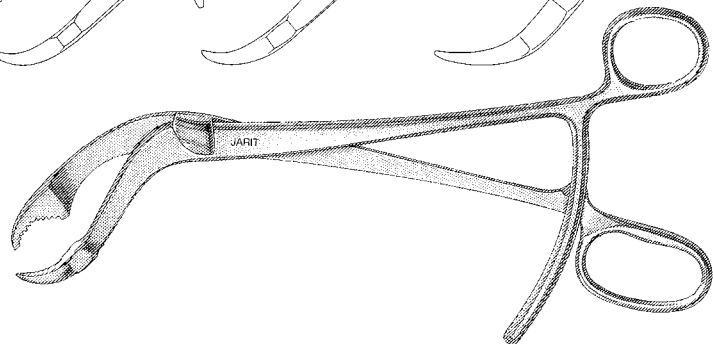
- 225-185** **VERBRUGGE** Bone Holding Clamp,
7" (17.8cm) small, 5mm wide jaw

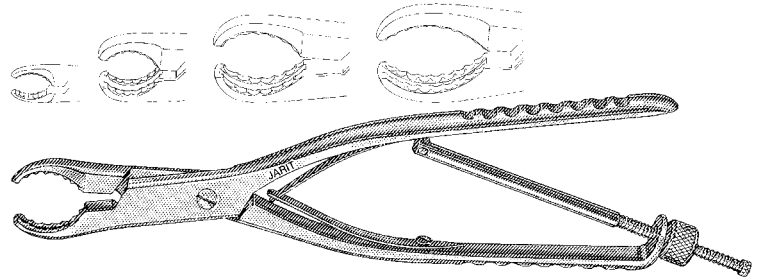


VERBRUGGE Bone Holding Clamps

- 225-186** 10" (25.4cm), 10mm wide jaw
- 225-187** 10½" (26.7cm), 11mm wide jaw
- 225-188** 10¾" (27.3cm), 12mm wide jaw

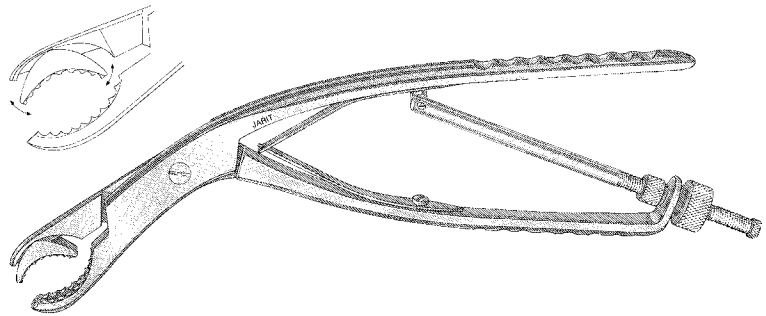
(Details Shown at ½ Size)





ULRICH-Style Bone Holding Forceps,
with speed lock

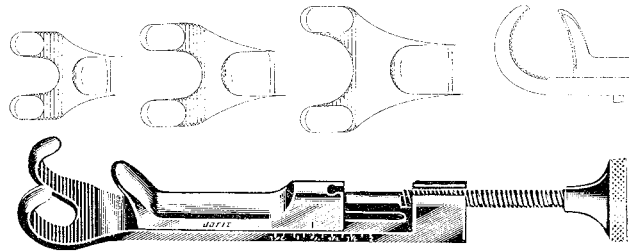
- 225-190** 7¼" (18.4cm), 2.5mm wide jaws
- 225-191** 9" (22.9cm), 9mm wide jaws
- 225-192** 10" (25.4cm), 9mm wide jaws
- 225-193** 11" (28cm), 9mm wide jaws
- 225-194** 11" (28cm) angled, 9mm wide jaws



(Details Shown at ½ Size)

LOWMAN Bone Holding Clamps,
1 x 2 prongs

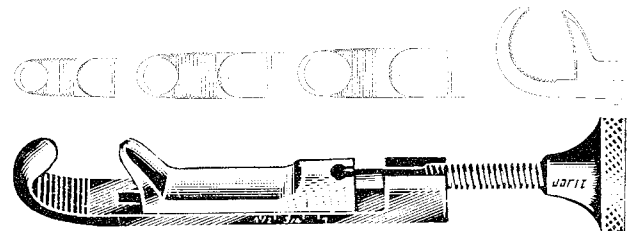
- 225-200** 4¾" (12.1cm)
- 225-205** 7¼" (18.4cm)
- 225-210** 8" (20.3cm)



(Details Shown at ½ Size)

LOWMAN Bone Holding Clamps,
1 x 1 prongs

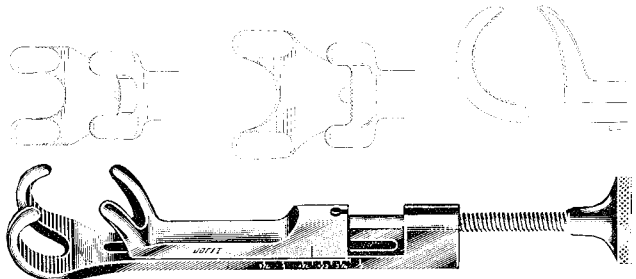
- 225-215** 4¾" (12.1cm)
- 225-220** 7¼" (18.4cm)
- 225-225** 8" (20.3cm)



(Details Shown at ½ Size)

LAMBERT-LOWMAN Bone Holding Clamps,
2 x 2 prongs

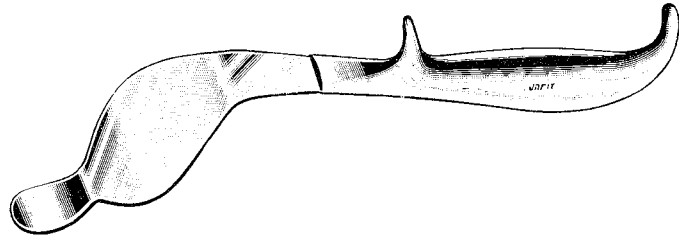
- 225-230** 7¼" (18.4cm)
- 225-235** 8" (20.3cm)



(Details Shown at ½ Size)

BENNETT Tibia Retractors,
10" (25.4cm)

- 225-400 1 $\frac{3}{4}$ " (4.4cm) narrow blade
- 225-402 2 $\frac{3}{4}$ " (6cm) wide blade



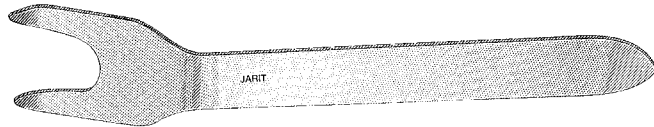
225-405 **BLOUNT** Knee Retractor,
7" (17.8cm)



225-407 **BLOUNT** Retractor,
10 $\frac{1}{2}$ " (26.7cm), single prong,
1 $\frac{1}{2}$ " (3.8cm) wide blade



225-408 **BLOUNT** Retractor,
10 $\frac{1}{2}$ " (26.7cm), double prong,
1 $\frac{1}{2}$ " (4.1cm) wide blade

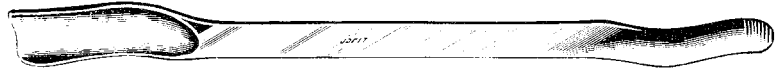


LISTON Amputating Knives

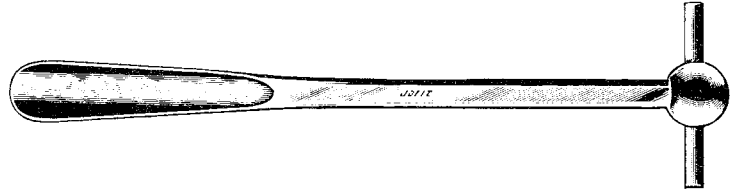
- 225-412 6 $\frac{1}{2}$ " (16.5cm) blade
- 225-413 8 $\frac{1}{2}$ " (21.6cm) blade



225-420 MURPHY-LANE Bone Skid,
12" (30.5cm)



225-425 MEYERDING Hip and Shoulder Skid,
13" (33cm)



SMILLIE Retractors

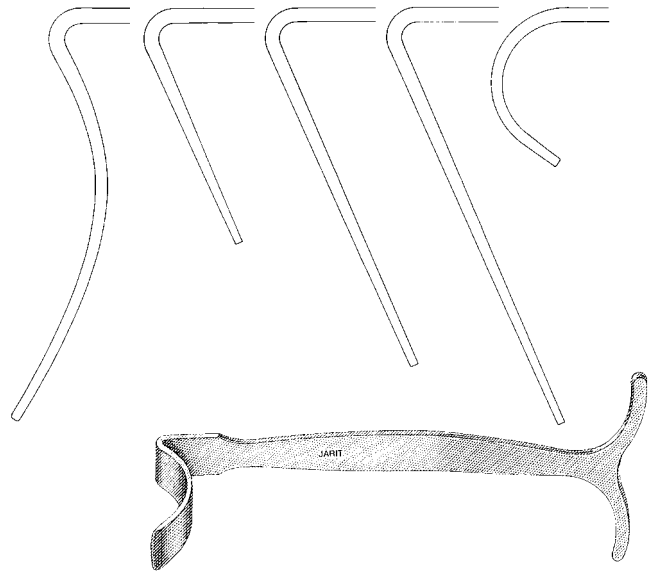
225-430 5½" (14cm), reverse curved,
½" wide x 2¼" long blade (1.3cm x 5.4cm)

225-431 5½" (14cm), angled,
¾" wide x 1¾" long blade (1.9cm x 3.5cm)

225-432 5½" (14cm), angled,
¾" wide x 2" long blade (1.9cm x 5.1cm)

225-433 5½" (14cm), angled,
¾" wide x 2¾" long blade (1.9cm x 6cm)

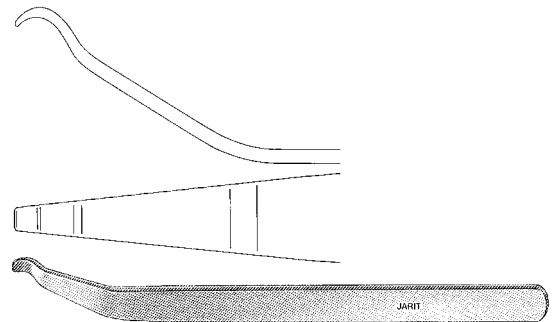
225-434 5½" (14cm), curved,
½" wide x ¾" long blade (1.3cm x 1.6cm)



HAYES Hand Retractors

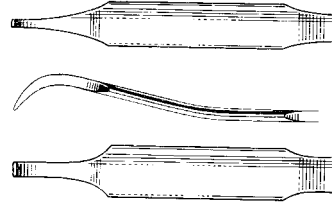
225-436 5¼" (13.3cm), blade ½" x 1½" (1.3cm x 3.8cm)

225-438 6¼" (16cm), blade ½" x 1½" (1.3cm x 3.8cm)



MINI-HOHMANN Retractors,
6¼" (15.9cm)

- 225-440 6mm wide blade
- 225-441 8mm wide blade



- 225-443 **HOHMANN** Retractor
4¾" (12.1cm), 16mm wide blade



- 225-449 **HOHMANN** Retractor
8¾" (22.2cm), 8mm wide blade



- 225-444 **HOHMANN** Retractor
6" (15.2cm), 15mm wide blade



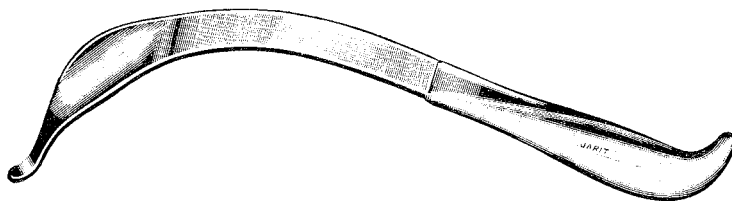
HOHMANN Retractors

- 225-450 9¼" (23.5cm), 10mm wide blade
- 225-452 9¼" (23.5cm), 18mm wide blade
- 225-453 9¼" (23.5cm), 25mm wide blade
- 225-454 9¼" (23.5cm), 43mm wide blade
- 225-456 9¾" (24.8cm), 70mm wide blade



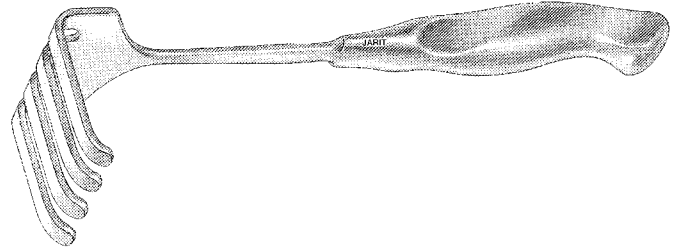
AUFRANC Cobra Retractors,
10¼" (26cm), 32mm wide blade

- 225-470 Pointed tip, serrated
- 225-471 Blunt tip, serrated
- 225-472 Blunt tip, smooth



DEEP RAKE Retractors,
Lamb handle, 11" (28cm), 4 blunt prongs,
2¼" wide (5.7cm)

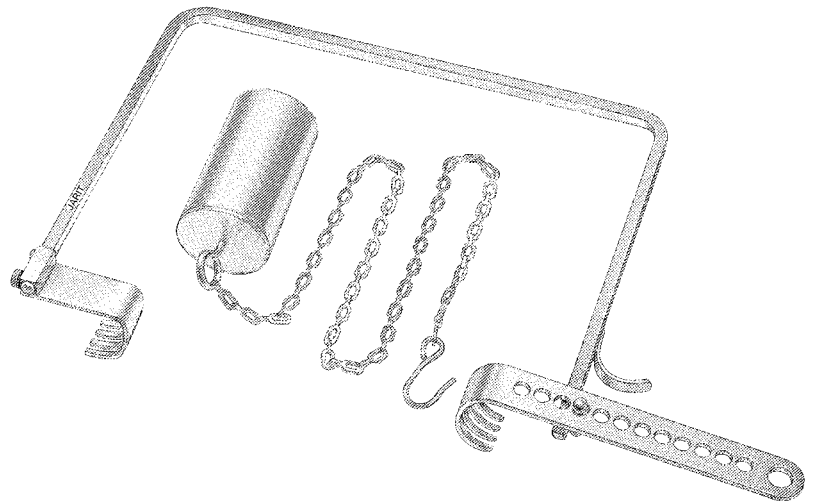
- 225-480** 1½" deep (3.8cm)
- 225-481** 2" deep (5.1cm)
- 225-482** 2½" deep (6.4cm)
- 225-483** 3" deep (7.6cm)



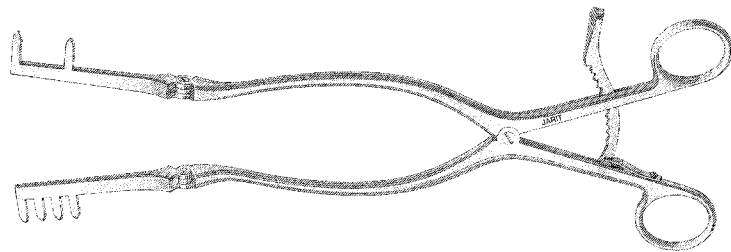
225-500 INITIAL INCISION Retractor

includes:
Frame (225-499),
2 blades (225-502) and (225-503),
and weight on chain (225-504)

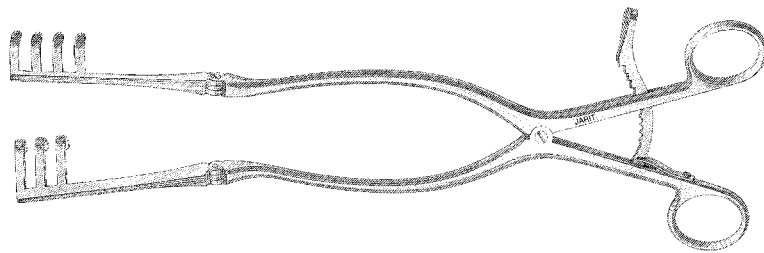
- 225-499** Frame only
- 225-502** Short blade:
1" wide x 1¼" deep
(2.5cm x 3.2cm)
- 225-503** Long blade:
1" wide x 1½" deep
(2.5cm x 3.8cm)
- 225-501** Short blade:
1" wide x 3" deep
(2.5cm x 7.6cm)
- 225-505** Long blade:
1" wide x 3" deep
(2.5cm x 7.6cm)
- 225-506** Short blade:
1" wide x 4" deep
(2.5cm x 10.1cm)
- 225-507** Long blade:
1" wide x 4" deep
(2.5cm x 10.1cm)
- 225-508** Short blade:
1" wide x 5" deep
(2.5cm x 12.7cm)
- 225-509** Long blade:
1" wide x 5" deep
(2.5cm x 12.7cm)
- 225-504** Weight on chain



225-510 HORIZONTAL Retractor,
12" (30.5cm), 4 x 2 prongs

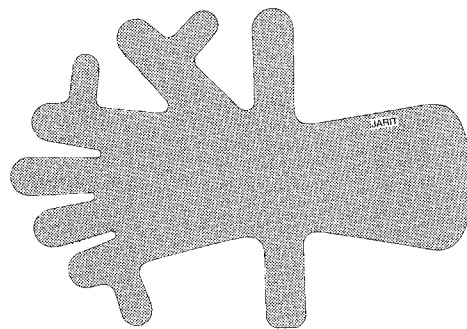


225-512 VERTICAL Retractor,
13" (33cm), 3 x 4 prongs



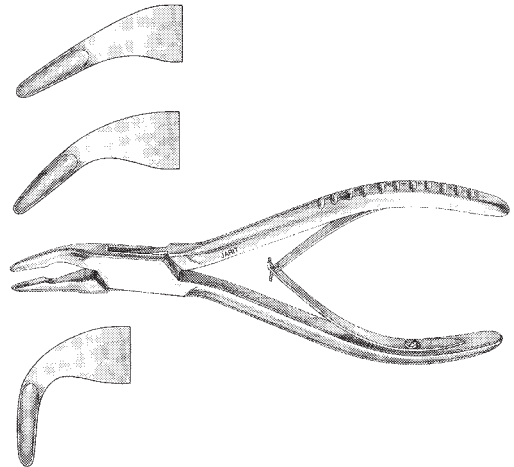
LEAD hand,
malleable

- 225-520** Adult
- 225-525** Pediatric



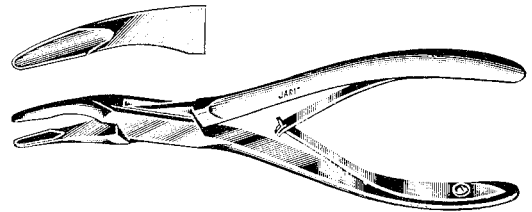
BLUMENTHAL Rongeurs,
6" (15.2cm), 2mm bite

- 230-097** 30°
- 230-095** 45°
- 230-096** 90°



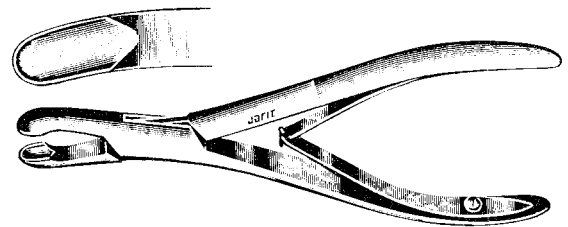
FRIEDMAN Rongeurs,
4mm bite

- 230-098** 4½" (11.4cm)
- 230-099** 5¼" (13.3cm)



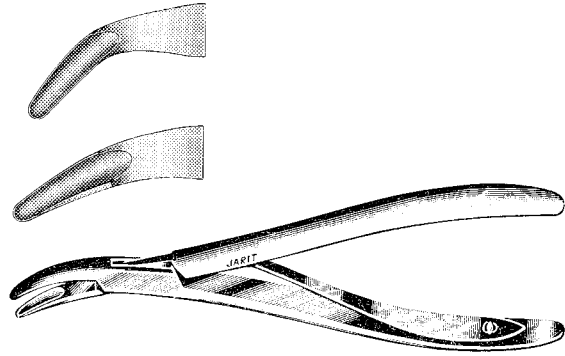
LUER Rongeurs,
7" (17.8cm), 8mm bite

- 230-100** Straight
- 230-102** Curved



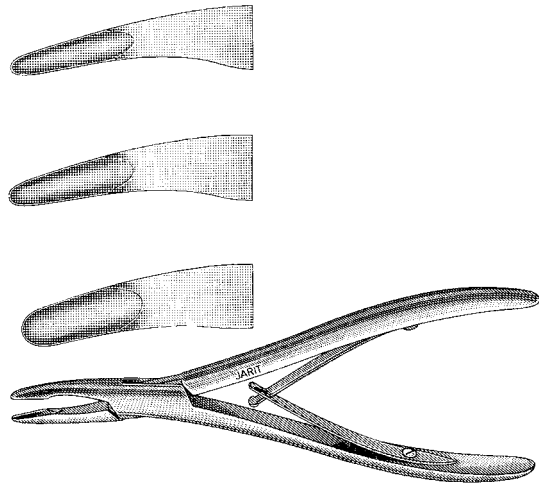
SHEARER Chicken Bill Rongeurs

- 230-105** 5½" (14cm), 3.5mm bite
- 230-106** 6¾" (16.5cm), 4mm bite



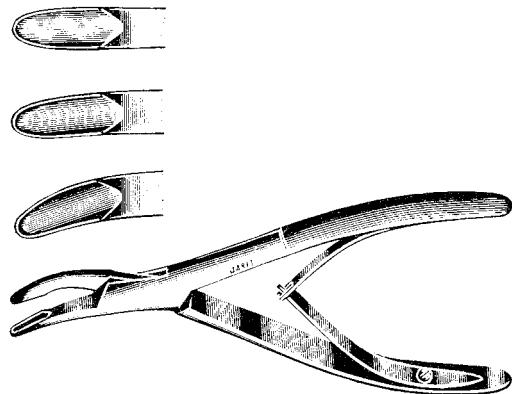
REINER Rongeurs,
7" (17.8cm)

- 230-110** 3mm bite
- 230-111** 4mm bite
- 230-112** 6mm bite



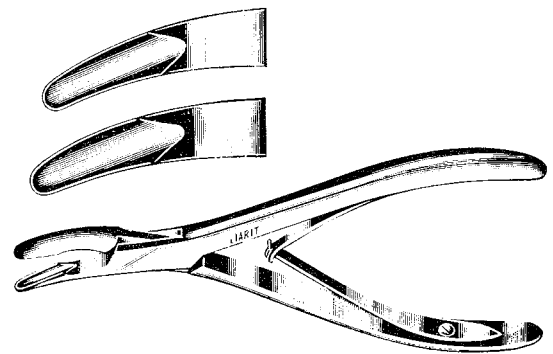
HARTMAN Rongeurs,
5¾" (14.6cm), 4.5mm bite

- 230-120** Straight
- 230-121** Half curved
- 230-122** Full curved



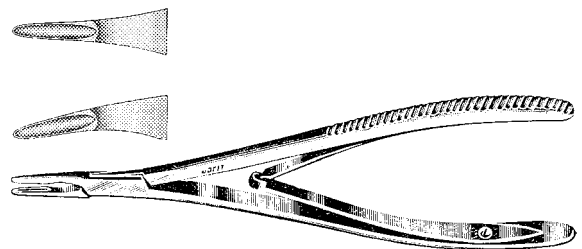
BANE Rongeurs,
7" (17.8cm)

- 230-124 4mm bite
- 230-125 5mm bite

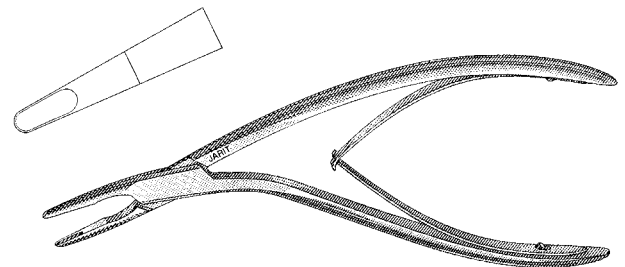


LEMPERT Rongeurs,
2.5mm bite

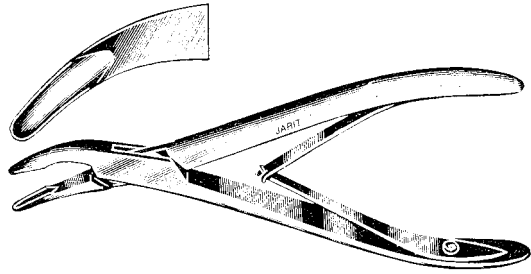
- 230-130 6¼" (15.9cm), straight
- 230-131 6¼" (15.9cm), curved
- 230-135 7½" (19.1cm), straight
- 230-136 7½" (19.1cm), curved



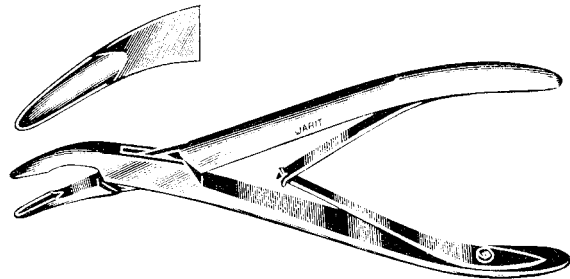
- 230-138 **JUERS-LEMPERT** Rongeur,
7¼" (19.7cm), curved handle, 3mm bite



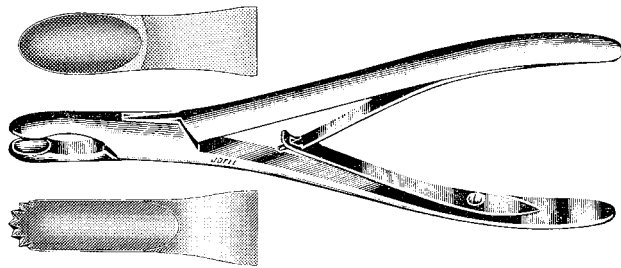
230-142 DEAN Rongeur,
5 $\frac{3}{4}$ " (14.6cm), 4mm bite



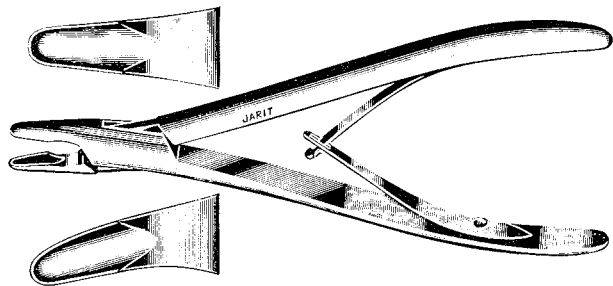
230-145 CICHERELLI Rongeur,
6 $\frac{1}{2}$ " (16.5cm), 3.5mm bite



ADSON Rongeurs,
8 $\frac{1}{4}$ " (21cm)
230-150 7mm bite
230-151 8mm bite, serrated cup jaws

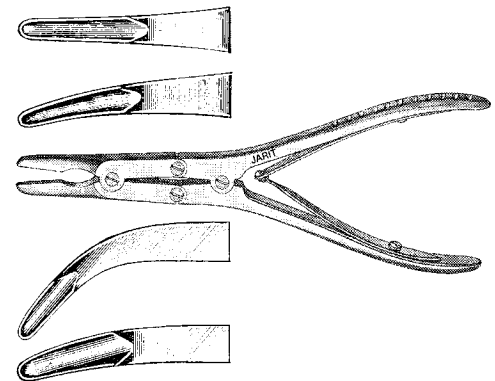


CUSHING Rongeurs,
8" (20.3cm), 6mm bite
230-160 Straight
230-161 Curved

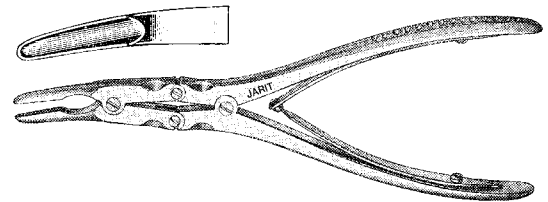


JARIT-RUSKIN Rongeurs

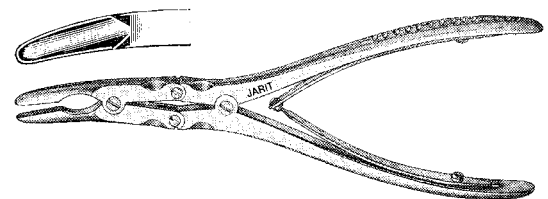
- 230-195** 6" (15.2cm), straight, 2mm bite
- 230-196** 6" (15.2cm), curved, 2mm bite
- 230-197** 5¾" (14.6cm), full curved, 3mm bite
- 230-200** 6" (15.2cm), curved, 4mm bite



- 230-205** **BEYER** Rongeur,
7" (17.8cm), 3mm bite

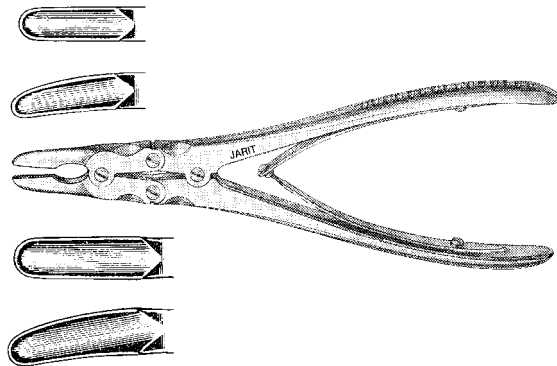


- 230-207** **JANSEN-ZAUFEL** Rongeur,
7" (17.8cm), 4mm bite

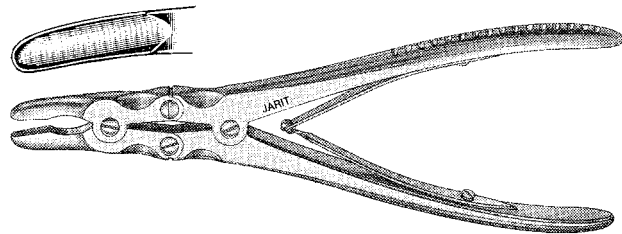


RUSKIN Rongeurs,
7 $\frac{1}{4}$ " (18.4cm)

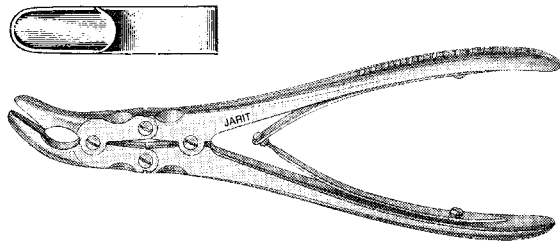
- 230-210** Straight, 5mm bite
- 230-211** Curved, 5mm bite
- 230-214** Straight, 6mm bite
- 230-215** Curved, 6mm bite



- 230-216** **RUSKIN-JAY** Rongeur,
8" (20.3cm), heavy duty, curved, 6mm bite

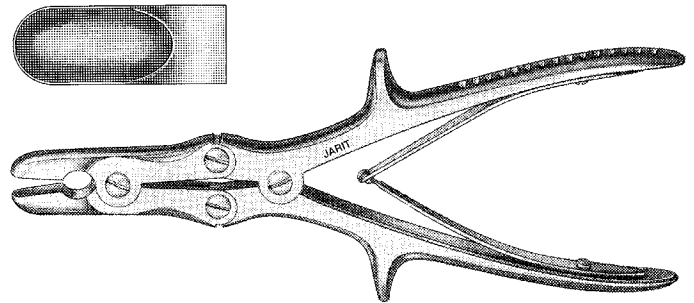


- 230-218** **RUSKIN** Angular Duckbill Rongeur,
7 $\frac{1}{4}$ " (18.4cm), 6mm bite



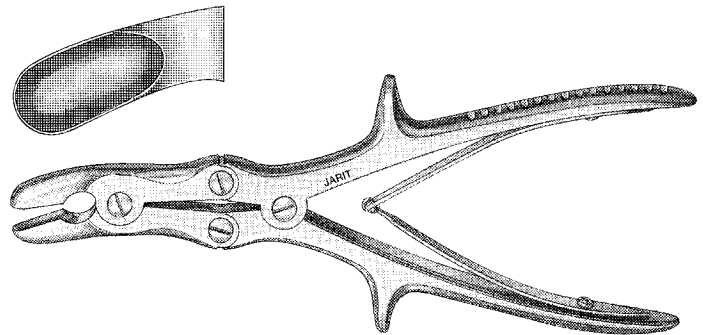
STILLE-LUER Rongeurs,
straight, 10mm bite

230-230 8½" (21.6cm)
230-235 10½" (26.7cm)

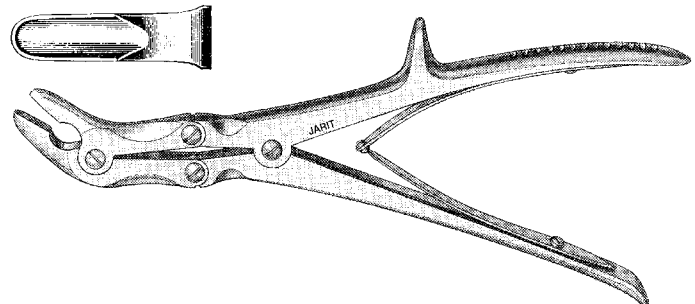


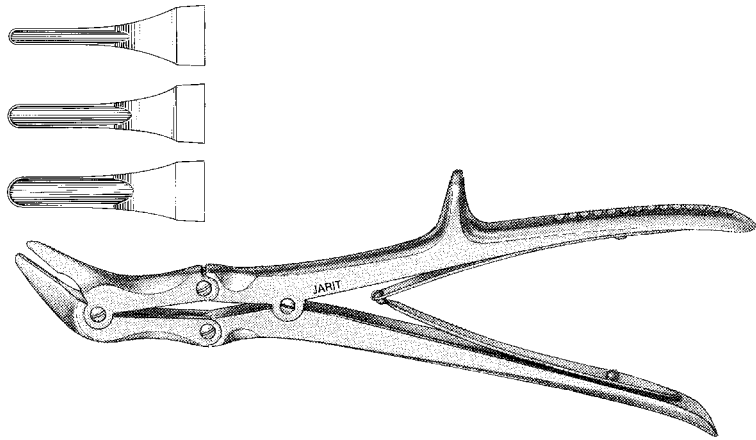
STILLE-LUER Rongeurs,
curved, 10mm bite

230-231 8½" (21.6cm)
230-236 10½" (26.7cm)



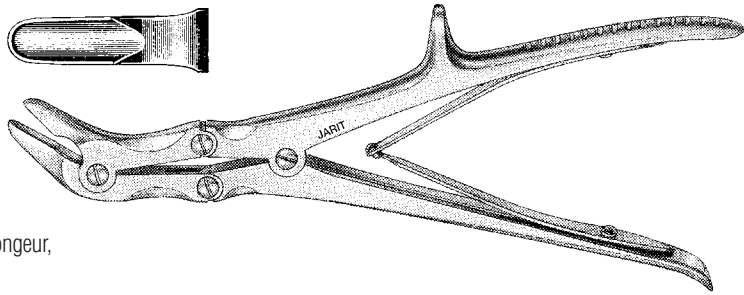
230-240 **STILLE-LUER** Angular Duckbill Rongeur,
9" (22.8cm), 6mm bite



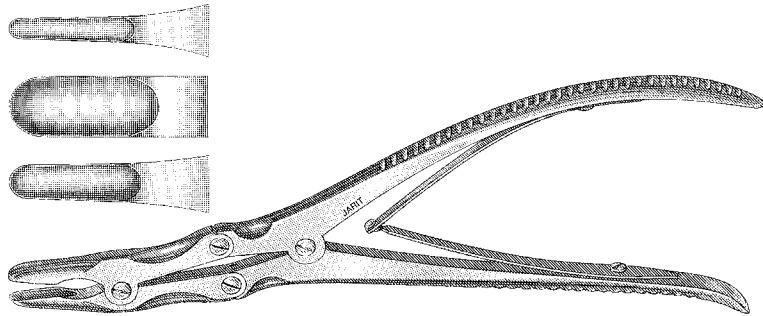


ECHLIN Angular Duckbill Rongeurs,
9" (22.8cm)

- 230-245** 2mm bite
- 230-246** 3mm bite
- 230-247** 4mm bite

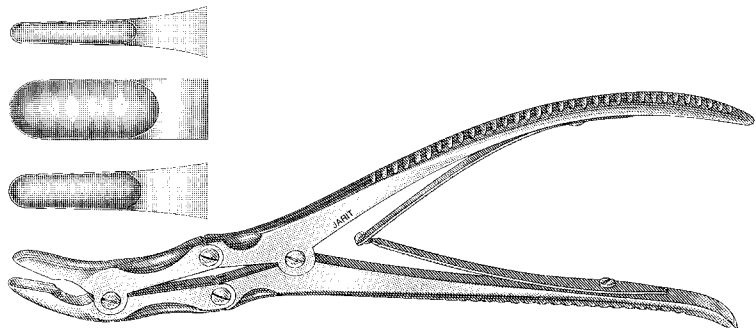


230-250 STILLE-LUER-ECHLIN Angular Duckbill Rongeur,
9" (22.8cm), 6mm bite



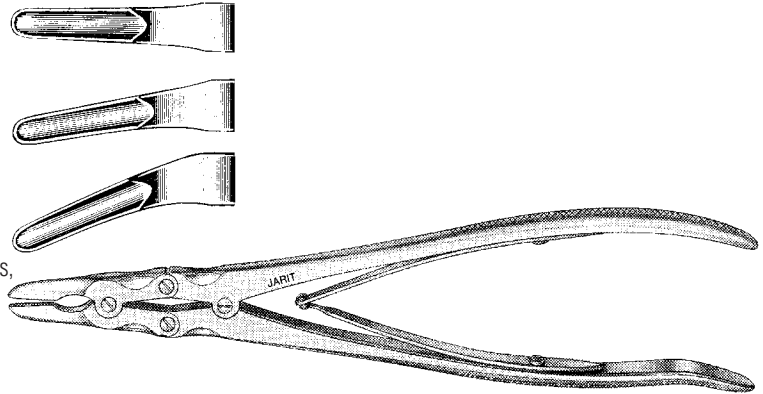
LEKSELL Rongeurs,
9" (22.8cm), slight curve

- 230-260** 3mm bite
- 230-261** 8mm bite
- 230-262** 5mm bite



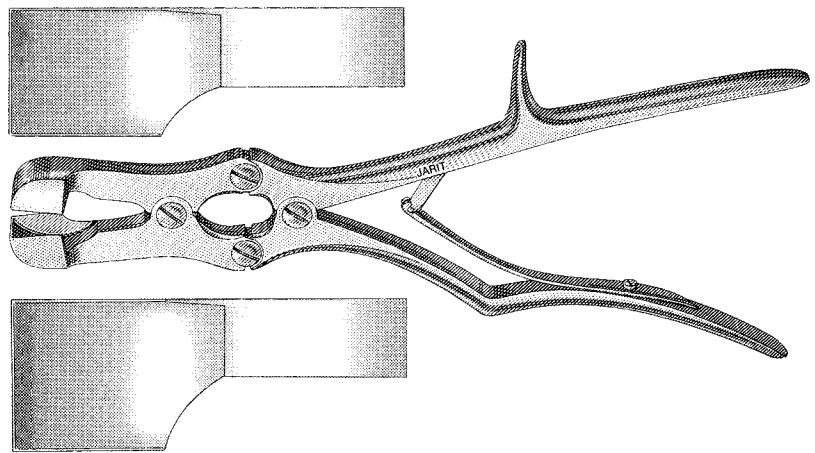
LEKSELL Rongeurs,
9" (22.8cm), full curve

- 230-265** 3mm bite
- 230-266** 8mm bite
- 230-267** 5mm bite



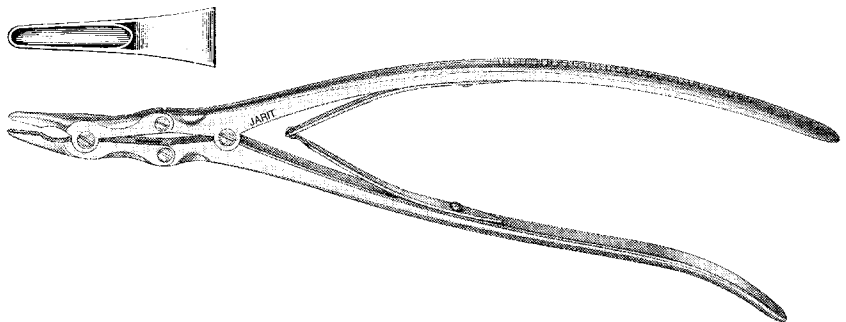
SMITH-PETERSEN Laminectomy Rongeurs,
9½" (24.1cm), 3.5mm bite

- 230-270 Straight
- 230-271 Half curved
- 230-272 Full curved



SAUERBRUCH Rib Rongeurs,
11½" (29.2cm), square bite

- 230-275 ⅝" (1.6cm) wide jaw
- 230-276 ¾" (1.9cm) wide jaw

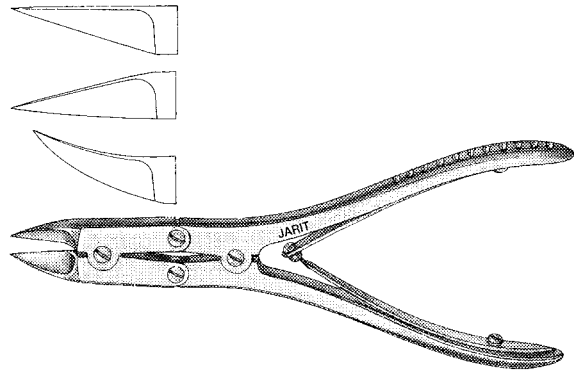


230-280 **DALE** Thoracic Rongeur,
14½" (36.8cm), 3mm bite

JARIT BONE CUTTING FORCEPS

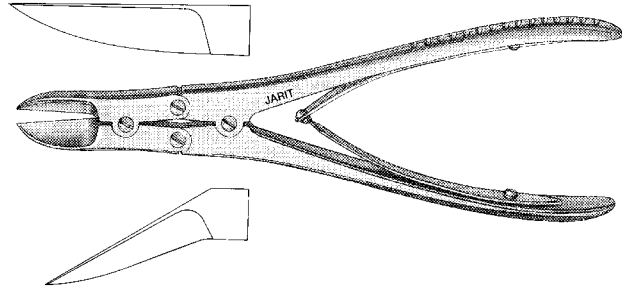
JARIT-LISTON Bone Cutting Forceps,
5 $\frac{1}{4}$ " (14.6cm)

- 230-300 Straight
- 230-301 Up-angled
- 230-302 Down-curved



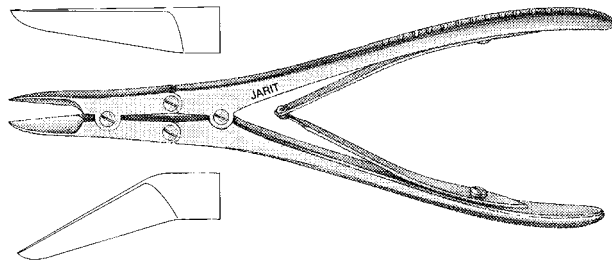
RUSKIN-LISTON Bone Cutting Forceps,
7 $\frac{1}{4}$ " (18.4cm)

- 230-305 Straight
- 230-306 Up-angled

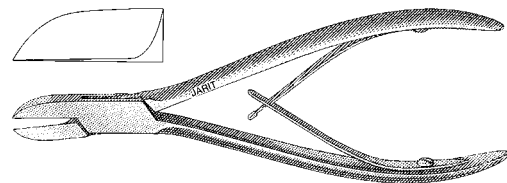


RUSKIN-LISTON Bone Splitting Forceps,
7 $\frac{1}{4}$ " (18.4cm), narrow jaw

- 230-310 Straight
- 230-311 Up-angled

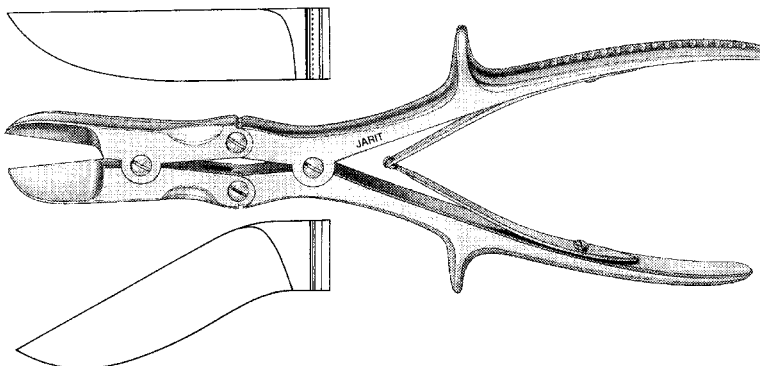


230-315 **LITTAUER-LISTON** Bone Cutting Forceps,
6" (15.3cm)

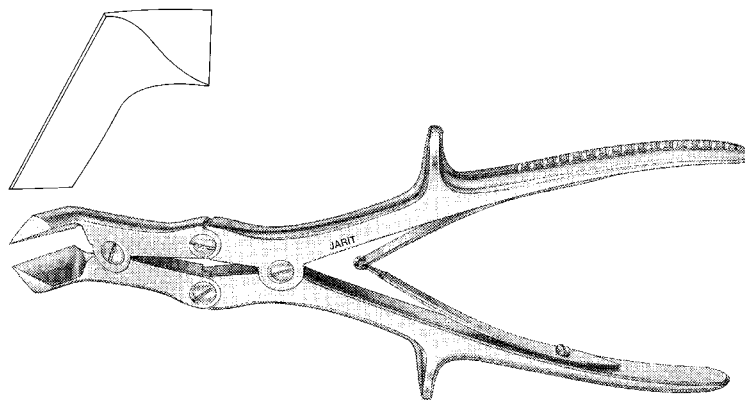


STILLE-LISTON Bone Cutting Forceps,
10½" (26.7cm)

- 230-320** Straight
- 230-321** Up-angled

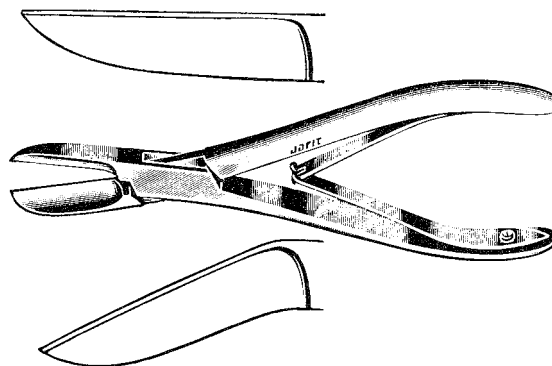


230-325 STILLE-HORSLEY Rongeur,
10" (25.4cm), S-shaped



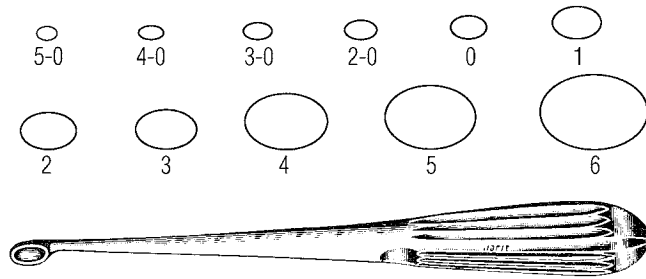
LISTON Bone Cutting Forceps

- 230-330** 5½" (14cm), straight
- 230-331** 6½" (16.5cm), straight
- 230-332** 7½" (19.1cm), straight
- 230-340** 5½" (14cm), up-angled
- 230-341** 6½" (16.5cm), up-angled
- 230-342** 7½" (19.1cm), up-angled



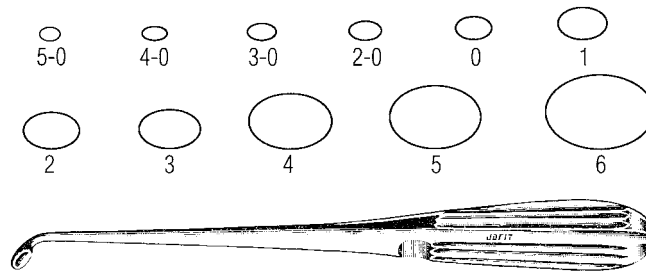
BRUNS Oval Cup Currettes,
straight

6 3/4" (17.1cm)	8" (20.3cm)	9" (22.9cm)
240-098 Size 5-0	240-070 Size 5-0	240-118 Size 5-0
240-099 Size 4-0	240-071 Size 4-0	240-119 Size 4-0
240-100 Size 3-0	240-072 Size 3-0	240-120 Size 3-0
240-101 Size 2-0	240-073 Size 2-0	240-121 Size 2-0
240-102 Size 0	240-074 Size 0	240-122 Size 0
240-103 Size 1	240-075 Size 1	240-123 Size 1
240-104 Size 2	240-076 Size 2	240-124 Size 2
240-105 Size 3	240-077 Size 3	240-125 Size 3
240-106 Size 4	240-078 Size 4	240-126 Size 4
240-107 Size 5	240-079 Size 5	240-127 Size 5
240-108 Size 6	240-080 Size 6	240-128 Size 6



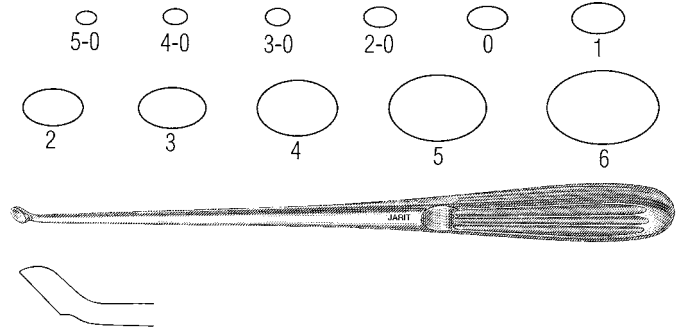
BRUNS Oval Cup Currettes,
angled tip

8" (20.3cm)	9" (22.9cm)
240-085 Size 5-0	240-138 Size 5-0
240-086 Size 4-0	240-139 Size 4-0
240-087 Size 3-0	240-140 Size 3-0
240-088 Size 2-0	240-141 Size 2-0
240-089 Size 0	240-142 Size 0
240-090 Size 1	240-143 Size 1
240-091 Size 2	240-144 Size 2
240-092 Size 3	240-145 Size 3
240-093 Size 4	240-146 Size 4
240-094 Size 5	240-147 Size 5
240-095 Size 6	240-148 Size 6



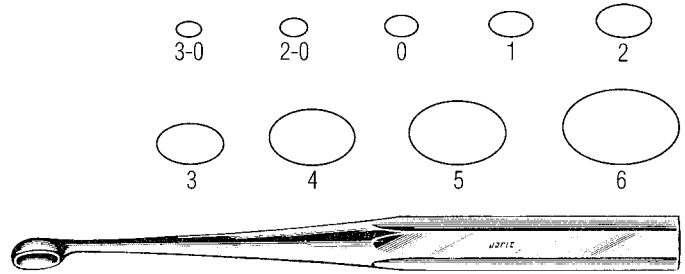
SPINAL Fusion Curettes,
9" (22.9cm), reverse angle

- 240-149** Size 5-0
- 240-150** Size 4-0
- 240-151** Size 3-0
- 240-152** Size 2-0
- 240-153** Size 0
- 240-154** Size 1
- 240-155** Size 2
- 240-156** Size 3
- 240-157** Size 4
- 240-158** Size 5
- 240-159** Size 6



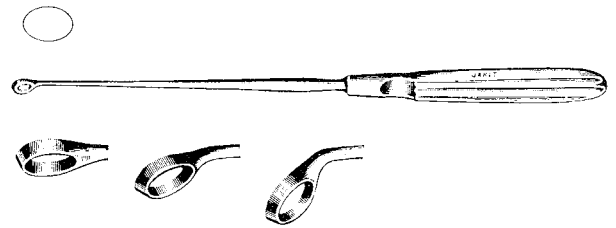
BRUNS Oval Cup Curettes,
9" (22.9cm), straight,
solid hexagonal handle

- 240-160** Size 3-0
- 240-161** Size 2-0
- 240-162** Size 0
- 240-163** Size 1
- 240-164** Size 2
- 240-165** Size 3
- 240-166** Size 4
- 240-167** Size 5
- 240-168** Size 6



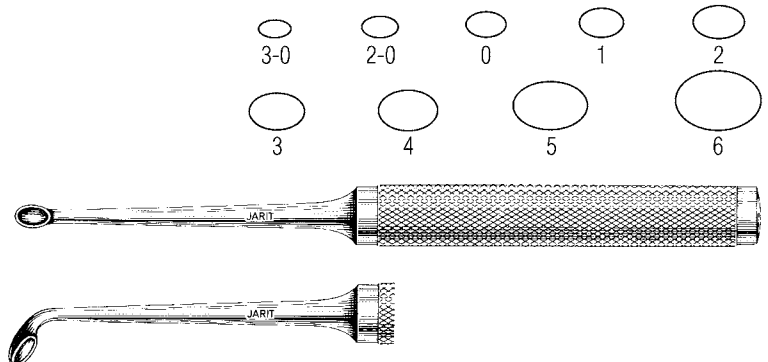
SEMMES (HOWARD) Spinal Curettes,
9" (22.9cm), 4 x 7 mm cup

- 240-170** Straight
- 240-171** Slight Angle
- 240-172** Acute Angle



COBB-Type Oval Cup Curettes,
11" (27.9cm), hollow knurled handle

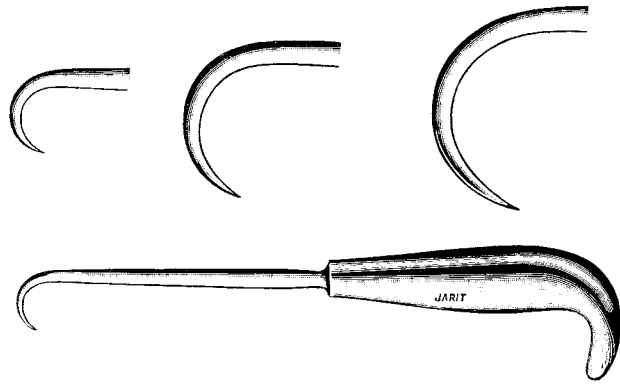
- | Straight | Angled Tip | |
|----------------|----------------|----------|
| 240-175 | 240-185 | Size 3-0 |
| 240-176 | 240-186 | Size 2-0 |
| 240-177 | 240-187 | Size 0 |
| 240-178 | 240-188 | Size 1 |
| 240-179 | 240-189 | Size 2 |
| 240-180 | 240-190 | Size 3 |
| 240-181 | 240-191 | Size 4 |
| 240-182 | 240-192 | Size 5 |
| 240-183 | 240-193 | Size 6 |



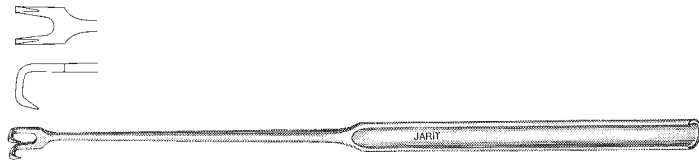
JARIT BONE CURETTES AND HOOKS

JARIT Bone Hooks,
9" (22.9cm)

- 240-195 3/8" (9.5mm) hook
- 240-196 3/4" (19mm) hook
- 240-197 1" (25mm) hook

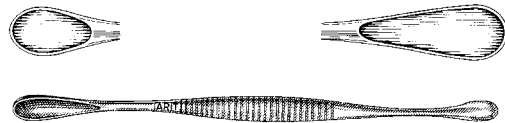


- 240-198 **BOYES-GOODFELLOW** Hooks,
8 1/4" (21cm), modified points,



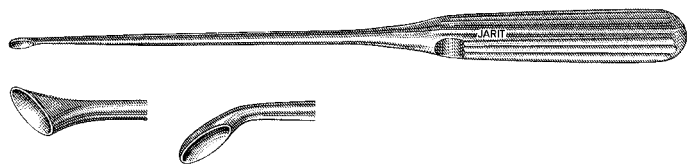
VOLKMAN Bone Curettes,
double ended

- 240-200 5" (12.7cm), one round and one oval cup,
10.5mm and 6.3mm x 6.8mm
- 240-202 6 1/2" (16.5cm), two oval cups,
7.5mm x 14mm and 9mm x 22mm
- 240-203 6 1/2" (16.5cm), one round and one oval cup,
14mm and 7mm x 9mm
- 240-205 8" (20.3cm), one round and one oval cup,
17.5mm and 9mm x 11mm



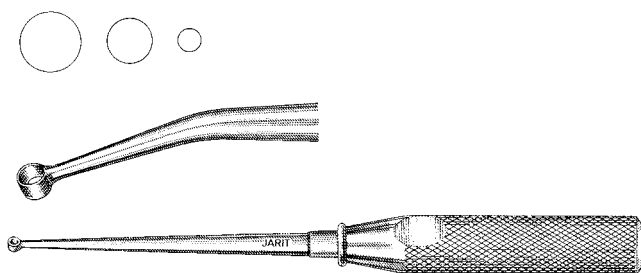
SCOVILLE Disc Curettes,
10" (25.4cm), 4 x 10mm cup

- 240-207 Straight
- 240-208 Reverse angled
- 240-209 Angled



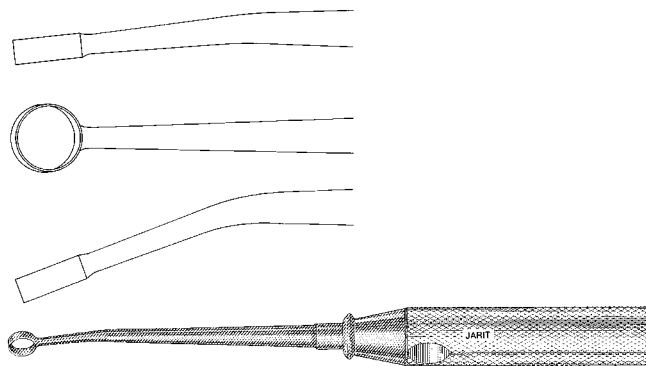
CONE Ring Currettes,
8 7/8" (21.9cm)

- 240-210** Straight, Size 1, 8mm diameter
- 240-211** Straight, Size 2, 6mm diameter
- 240-212** Straight, Size 3, 3mm diameter
- 240-214** Angular, Size 1, 8mm diameter
- 240-215** Angular, Size 2, 6mm diameter
- 240-216** Angular, Size 3, 3mm diameter



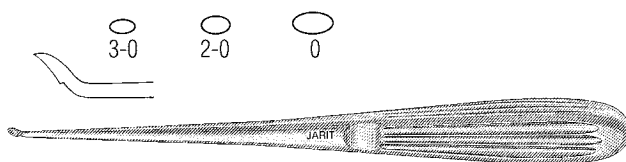
JARIT-CONE Ring Currettes,
9" (22.9cm), 8mm cup

- 240-220** 5° Angle
- 240-221** 30° Angle

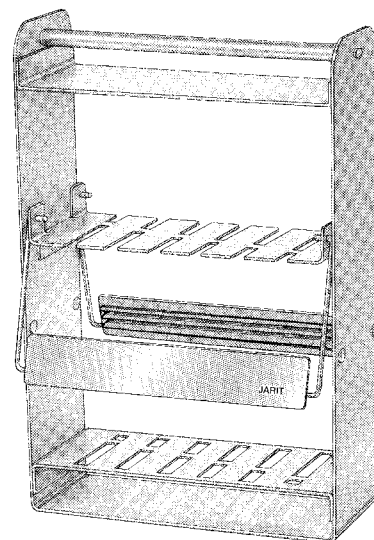


EPSTEIN Spinal Fusion Currettes,
8" (20.3cm), reverse angle

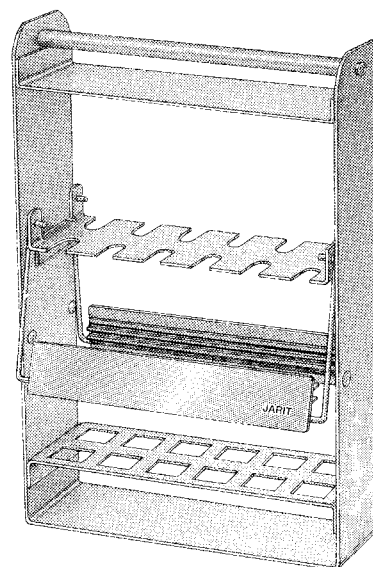
- 240-230** Size 3-0
- 240-231** Size 2-0
- 240-232** Size 0



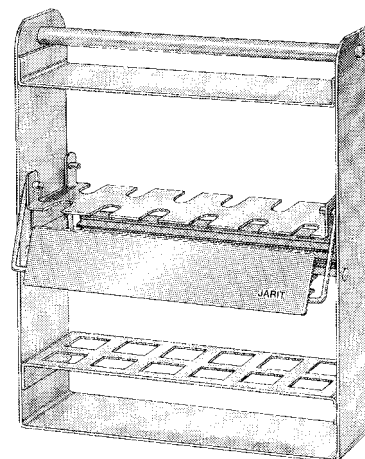
250-090 LAMBOTTE Sterilizing Rack,
stainless steel, holds 12 JARIT Lambotte 9" osteotomes,
rack size: 3" x 7 $\frac{1}{8}$ " x 11 $\frac{1}{2}$ " (7.6cm x 18.7cm x 28.3cm)

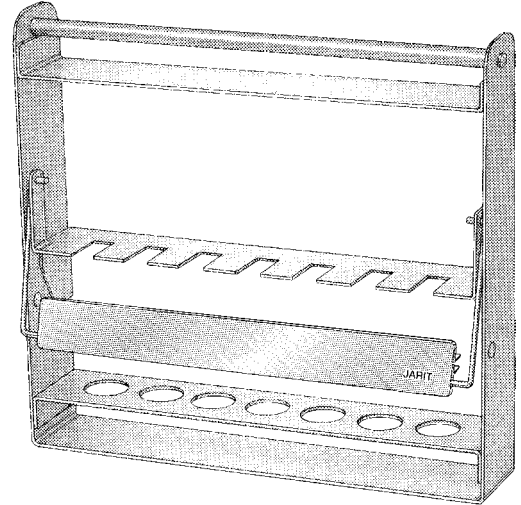


250-092 HIBBS-BRUNS Sterilizing Rack,
stainless steel, holds 12 JARIT Hibbs 9 $\frac{1}{2}$ " chisels,
gouges and osteotomes, or 12 JARIT Bruns 9" curettes,
rack size: 2 $\frac{1}{2}$ " x 7 $\frac{1}{8}$ " x 11 $\frac{1}{2}$ " (6.4cm x 18.7cm x 28.3cm)

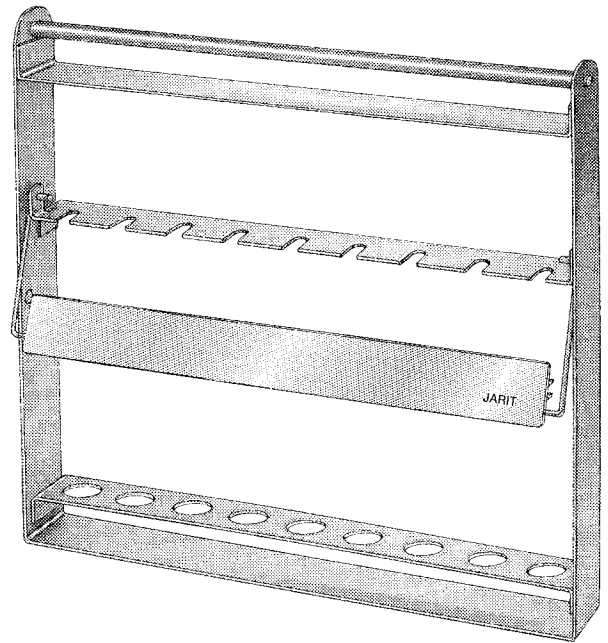


250-093 BRUNS Sterilizing Rack,
stainless steel, holds 12 JARIT Bruns 6 $\frac{3}{4}$ " curettes,
rack size: 2 $\frac{1}{2}$ " x 7 $\frac{1}{8}$ " x 9 $\frac{1}{4}$ " (6.4cm x 18.7cm x 23.5cm)

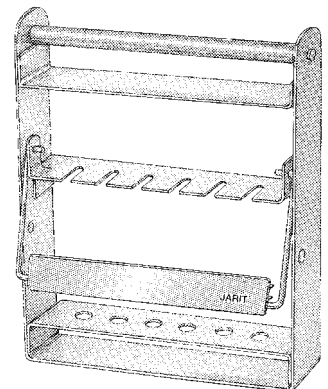




250-095 SMITH-PETERSEN Sterilizing Rack,
stainless steel, holds 7 JARIT Smith-Petersen 8" gouges, osteotomes,
rack size: 2" x 10 $\frac{1}{2}$ " x 9 $\frac{1}{2}$ " (5.1cm x 27cm x 25.1cm)



250-097 COBB Sterilizing Rack,
stainless steel, holds 9 JARIT Cobb-Type 11" instruments,
rack size: 1 $\frac{3}{4}$ " x 14" x 13 $\frac{1}{4}$ " (4.4cm x 35.6cm x 33.7cm)



250-099 HOKE Sterilizing Rack,
stainless steel, holds 6 JARIT Hoke 5" osteotomes,
rack size: 1 $\frac{1}{2}$ " x 5 $\frac{1}{4}$ " x 7" (3.8cm x 14.6cm x 17.8cm)



BONE CHISELS, GOUGES AND OSTEOTOMES

HIBBS Chisels, 9 1/2" (24.1cm), straight

- 250-100 1/4" (6mm)
- 250-101 3/8" (9mm)
- 250-102 1/2" (12mm)
- 250-103 5/8" (16mm)
- 250-104 3/4" (19mm)
- 250-105 7/8" (22mm)
- 250-106 1" (25mm)
- 250-107 1 1/8" (29mm)
- 250-108 1 1/4" (32mm)
- 250-109 1 1/2" (38mm)



HIBBS Chisels, 9 1/2" (24.1cm), curved

- 250-120 1/4" (6mm)
- 250-121 3/8" (9mm)
- 250-122 1/2" (12mm)
- 250-123 5/8" (16mm)
- 250-124 3/4" (19mm)
- 250-125 7/8" (22mm)
- 250-126 1" (25mm)
- 250-127 1 1/8" (29mm)
- 250-128 1 1/4" (32mm)
- 250-129 1 1/2" (38mm)



HIBBS Osteotomes, 9 1/2" (24.1cm), straight

- 250-140 1/4" (6mm)
- 250-141 3/8" (9mm)
- 250-142 1/2" (12mm)
- 250-143 5/8" (16mm)
- 250-144 3/4" (19mm)
- 250-145 7/8" (22mm)
- 250-146 1" (25mm)
- 250-147 1 1/8" (29mm)
- 250-148 1 1/4" (32mm)
- 250-149 1 1/2" (38mm)



HIBBS Osteotomes,
9½" (24.1cm), curved

- 250-160 ¼" (6mm)
- 250-161 ⅜" (9mm)
- 250-162 ½" (12mm)
- 250-163 ⅝" (16mm)
- 250-164 ¾" (19mm)
- 250-165 ⅞" (22mm)
- 250-166 1" (25mm)
- 250-167 1¼" (29mm)
- 250-168 1½" (32mm)
- 250-169 1⅞" (38mm)



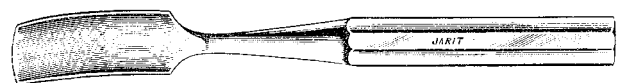
HIBBS Gouges,
9½" (24.1cm), straight

- 250-180 ¼" (6mm)
- 250-181 ⅜" (9mm)
- 250-182 ½" (12mm)
- 250-183 ⅝" (16mm)
- 250-184 ¾" (19mm)
- 250-185 ⅞" (22mm)
- 250-186 1" (25mm)
- 250-187 1¼" (29mm)
- 250-188 1½" (32mm)
- 250-189 1⅞" (38mm)



HIBBS Gouges,
9½" (24.1cm), curved

- 250-190 ¼" (6mm)
- 250-191 ⅜" (9mm)
- 250-192 ½" (12mm)
- 250-193 ⅝" (16mm)
- 250-194 ¾" (19mm)
- 250-195 ⅞" (22mm)
- 250-196 1" (25mm)
- 250-197 1¼" (29mm)
- 250-198 1½" (32mm)
- 250-199 1⅞" (38mm)

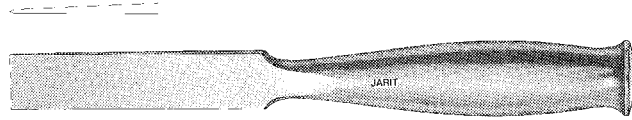




BONE CHISELS, GOUGES AND OSTEOTOMES

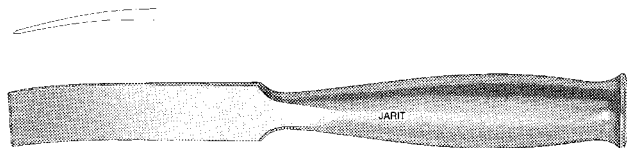
SMITH-PETERSEN Osteotomes, 8" (20.3cm), straight

- 250-200 ¼" (6mm)
- 250-201 ⅜" (9mm)
- 250-202 ½" (12mm)
- 250-203 ⅝" (16mm)
- 250-204 ¾" (19mm)
- 250-205 1" (25mm)
- 250-206 1¼" (32mm)



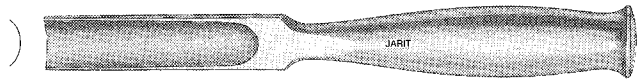
SMITH-PETERSEN Osteotomes, 8" (20.3cm), curved

- 250-210 ¼" (6mm)
- 250-211 ⅜" (9mm)
- 250-212 ½" (12mm)
- 250-213 ⅝" (16mm)
- 250-214 ¾" (19mm)
- 250-215 1" (25mm)
- 250-216 1¼" (32mm)



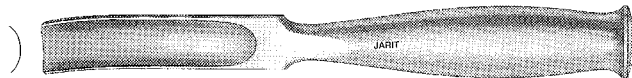
SMITH-PETERSEN Gouges, 8" (20.3cm), straight

- 250-220 ¼" (6mm)
- 250-221 ⅜" (9mm)
- 250-222 ½" (12mm)
- 250-223 ⅝" (16mm)
- 250-224 ¾" (19mm)
- 250-225 1" (25mm)
- 250-226 1¼" (32mm)

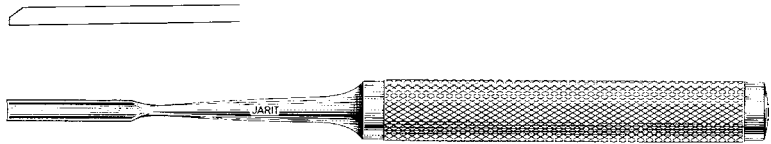


SMITH-PETERSEN Gouges, 8" (20.3cm), curved

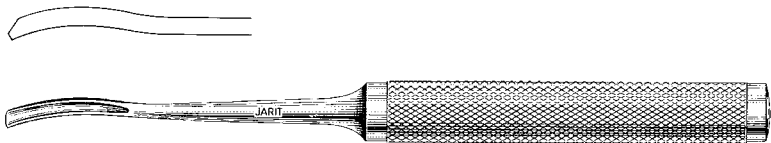
- 250-230 ¼" (6mm)
- 250-231 ⅜" (9mm)
- 250-232 ½" (12mm)
- 250-233 ⅝" (16mm)
- 250-234 ¾" (19mm)
- 250-235 1" (25mm)
- 250-236 1¼" (32mm)



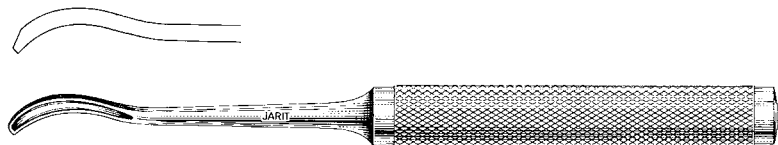
250-240 COBB-Type Spinal Gouge,
11" (28cm), straight,
 $\frac{1}{2}$ " (7.5mm) wide



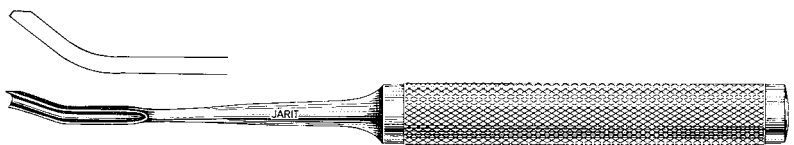
250-241 COBB-Type Spinal Gouge,
11" (28cm), medium curved,
 $\frac{1}{2}$ " (7.5mm) wide



250-242 COBB-Type Spinal Gouge,
11" (28cm), strong curved,
 $\frac{1}{2}$ " (7.5mm) wide

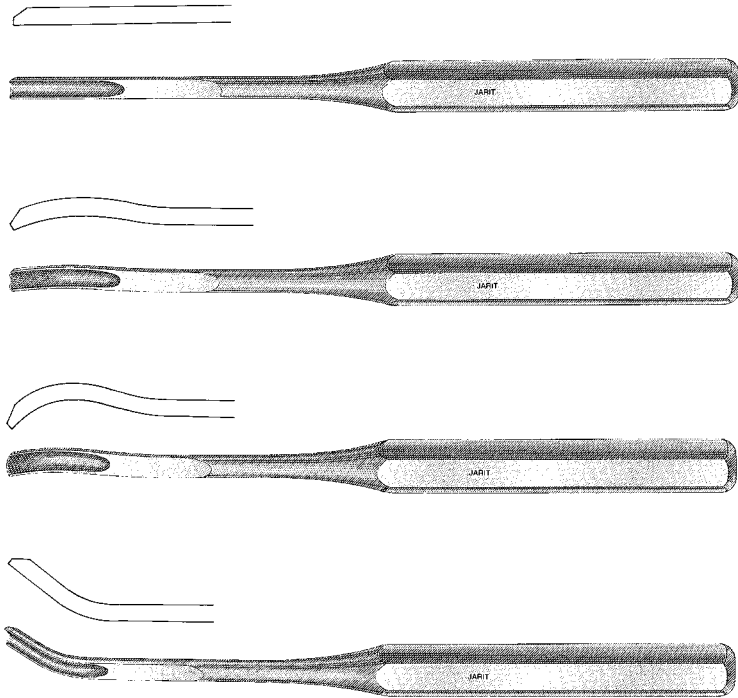


250-243 COBB-Type Spinal Gouge,
11" (28cm), reverse curved,
 $\frac{1}{2}$ " (7.5mm) wide





BONE CHISELS, GOUGES AND OSTEOTOMES

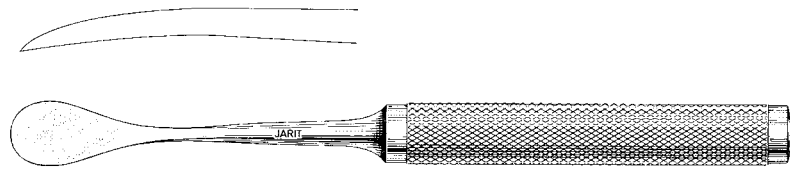


COBB-Type Spinal Gouges,
9½" (24cm), hollow hexagonal handle,
⅝" (8mm) wide

- 251-240 Straight
- 251-241 Medium curved
- 251-242 Strong curved
- 251-243 Reverse curved

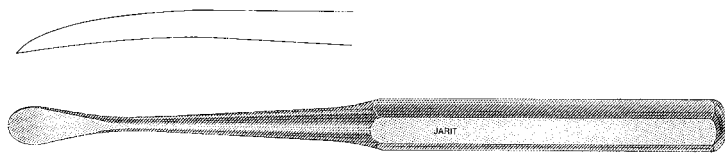
COBB-Type Spinal Elevators,
11" (28cm)

- 250-244 ⅜" (9mm) blade
- 250-245 ½" (12mm) blade
- 250-246 ¾" (19mm) blade
- 250-247 1" (25mm) blade
- 250-248 1¼" (32mm) blade



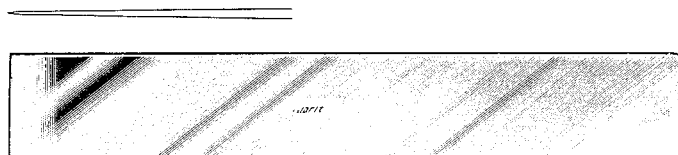
COBB-Type Spinal Elevators,
9½" (24cm), solid hexagonal handle

- 251-244 ⅜" (9mm) blade
- 251-245 ½" (12mm) blade
- 251-246 ¾" (19mm) blade



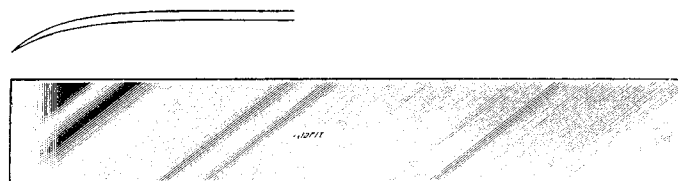
LAMBOTTE Osteotomes,
9" (22.9cm), straight

- 250-250 ¼" (6mm)
- 250-251 ½" (12mm)
- 250-252 ¾" (19mm)
- 250-253 1" (25mm)
- 250-254 1¼" (32mm)
- 250-255 1½" (38mm)



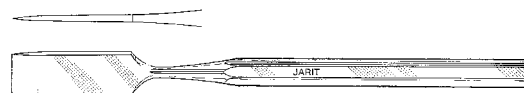
LAMBOTTE Osteotomes,
9" (22.9cm), curved

- 250-260 ¼" (6mm)
- 250-261 ½" (12mm)
- 250-262 ¾" (19mm)
- 250-263 1" (25mm)
- 250-264 1¼" (32mm)
- 250-265 1½" (38mm)



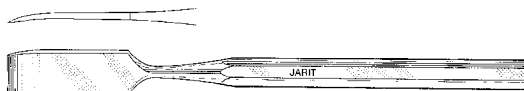
HOKE Osteotomes,
5½" (14cm), straight

- 250-280 ⅛" (3mm)
- 250-281 ⅜" (5mm)
- 250-282 ¼" (6mm)
- 250-283 ⅝" (8mm)
- 250-284 ⅞" (9mm)
- 250-285 ½" (12mm)
- 250-286 ⅝" (16mm)

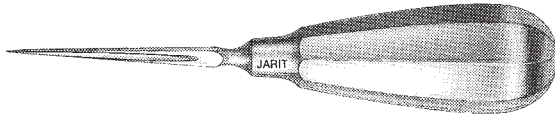


HOKE Osteotomes,
5½" (14cm), curved

- 250-290 ⅛" (3mm)
- 250-291 ⅜" (5mm)
- 250-292 ¼" (6mm)
- 250-293 ⅝" (8mm)
- 250-294 ⅞" (9mm)
- 250-295 ½" (12mm)
- 250-296 ⅝" (16mm)

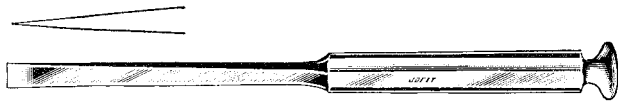


275-563 BONE AWL
5½" (14cm)



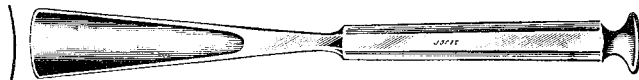
STILLE-Type Osteotomes,
8" (20.3cm)

- 250-320** ⅜" (9mm)
- 250-321** ⅝" (14mm)
- 250-322** 1⅛" (18mm)
- 250-323** ⅞" (22mm)



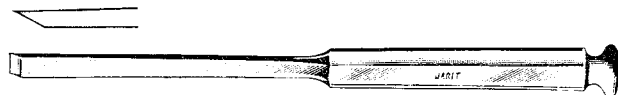
STILLE-Type Gouges,
8" (20.3cm)

- 250-330** ⅜" (9mm)
- 250-331** ⅝" (14mm)
- 250-332** 1⅛" (18mm)
- 250-333** ⅞" (22mm)

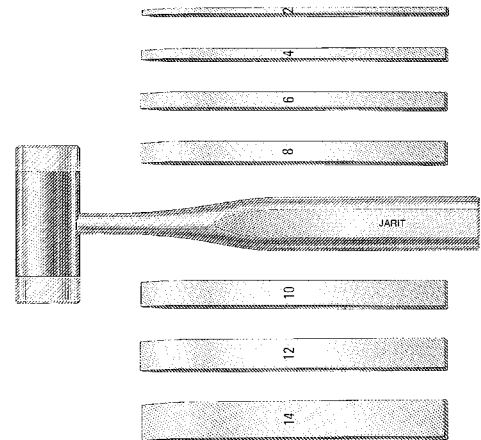


STILLE-Type Chisels,
8" (20.3cm)

- 250-335** ⅜" (9mm)
- 250-336** ⅝" (14mm)
- 250-337** 1⅛" (18mm)
- 250-338** ⅞" (22mm)

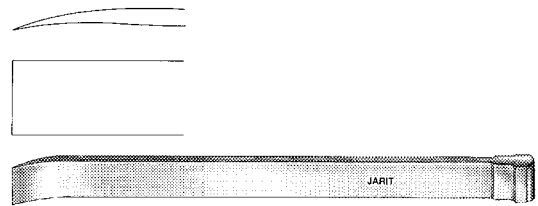


250-390 **JARIT** Hand Surgery Osteotome Set,
includes:
7 osteotomes, 5" (12.7cm) long,
2mm, 4mm, 6mm, 8mm, 10mm, 12mm, 14mm wide,
nylon capped mallet, in canvas roll



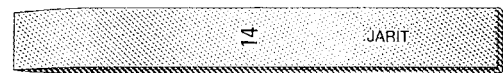
JARIT Hand Surgery Osteotomes,
5" (12.7cm), curved

- 250-381** 1/16" (2mm)
- 250-382** 1/32" (4mm)
- 250-383** 1/4" (6mm)
- 250-384** 5/16" (8mm)
- 250-385** 3/8" (10mm)
- 250-386** 1/2" (12mm)
- 250-387** 5/8" (14mm)



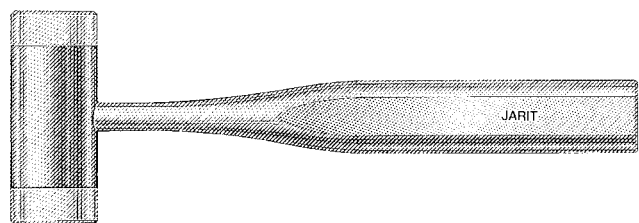
JARIT Hand Surgery Osteotomes,
5" (12.7cm), straight

- 250-391** 1/16" (2mm)
- 250-392** 1/32" (4mm)
- 250-393** 1/4" (6mm)
- 250-394** 5/16" (8mm)
- 250-395** 3/8" (10mm)
- 250-396** 1/2" (12mm)
- 250-397** 5/8" (14mm)

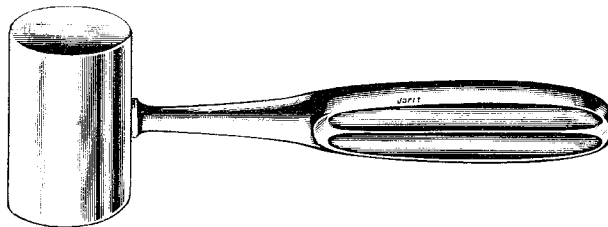


JARIT Mallet,
7 3/8" (18.7cm), anodized aluminum handle

- 250-398** 2 replaceable nylon caps,
head: weight 4 oz., diameter 1" (2.5cm)
- 250-399** 1 replaceable nylon cap and
1 stainless facing,
head: weight 5 oz., diameter 1" (2.5cm)
- 250-410** **NYLON** Cap for 250-398 and 250-399

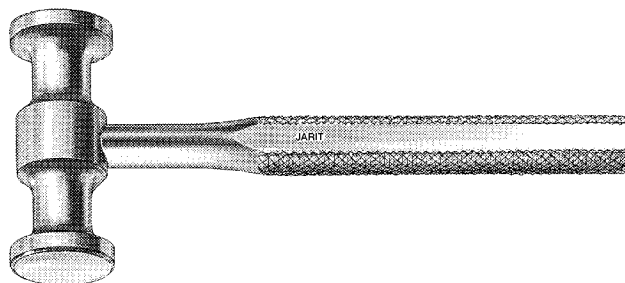


250-400 KIRK Mallet,
7 $\frac{1}{4}$ " (19cm) bronze head,
head: weight 1 lb. 2oz., diameter 1 $\frac{1}{2}$ " (3.8cm)

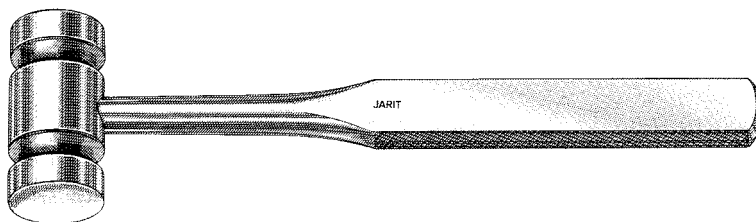


JARIT ORTHOPEDIC Mallet,
250-403 7 $\frac{1}{6}$ " (18.3cm),
head: weight 1 lb., diameter 1 $\frac{1}{4}$ " (3.0cm)

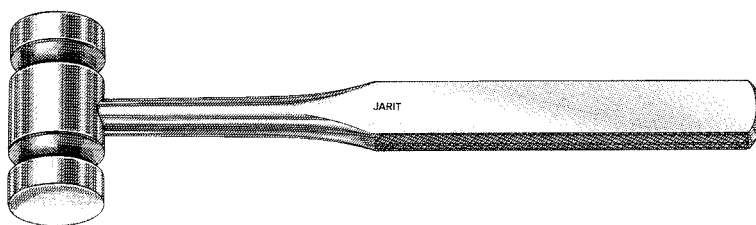
250-404 7 $\frac{1}{6}$ " (19.3cm),
head: weight 2 lbs., diameter 1 $\frac{1}{2}$ " (3.8cm)



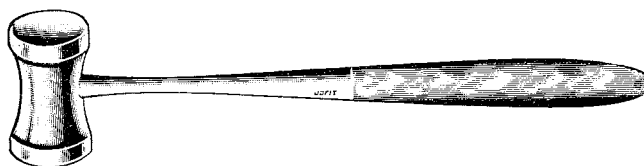
250-405 BONE Mallet,
11" (28cm), lightweight,
head: weight 1 lb., diameter 1 $\frac{1}{2}$ " (3.5cm)



250-406 BONE Mallet,
11" (28cm), heavyweight,
head: weight 2 lbs., diameter 2" (5.1cm)

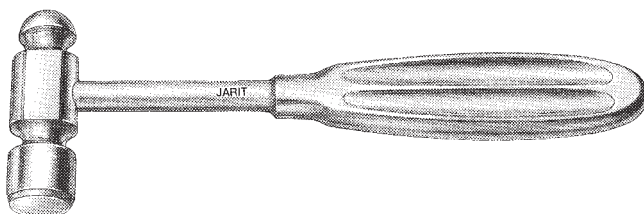


250-408 **LUCAE** Mallet,
8" (20.3cm),
head: weight 5oz., diameter 1" (2.5cm)



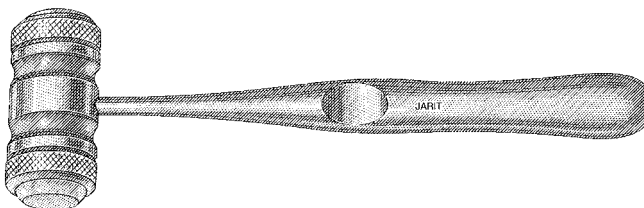
250-408 **JARIT** Ball Pean Hammer,
7½" (19cm), head: weight 8oz.,
small face diameter ⅜" (1.1cm)
face diameter ¾" (1.9cm)

250-412 9" (22.9cm), head: weight 13oz.,
large face diameter 1" (2.5cm)
face diameter ⅞" (2.2cm)



250-415 **MEAD** Mallet,
7½" (19cm), 2 replaceable nylon caps,
head: weight 6oz., diameter ⅜" (2cm)

250-416 NYLON cap for 250-415

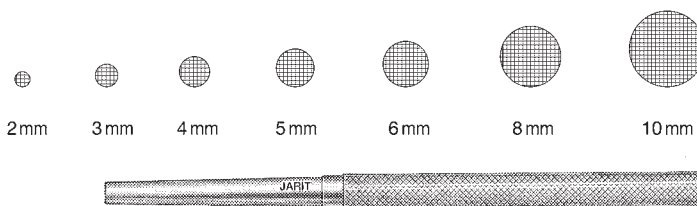


250-418 **KIENE** Bone Tamp,
6" (15.2cm),
tip 10mm diameter



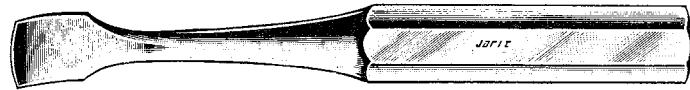
BONE TAMP Serrated tip,
6¼" (15.9cm),

- 250-430** tip 2mm diameter
- 250-431** tip 3mm diameter
- 250-432** tip 4mm diameter
- 250-433** tip 5mm diameter
- 250-434** tip 6mm diameter
- 250-435** tip 8mm diameter
- 250-436** tip 10mm diameter



KEY Elevators,
solid hexagonal handle

- 250-420 1/8" (3mm) wide, 6 1/2" (17.5cm)
- 250-421 1/4" (6mm) wide, 6 1/2" (17.5cm)
- 250-422 3/8" (9mm) wide, 7 1/2" (18.7cm)
- 250-423 1/2" (13mm) wide, 7 1/2" (19cm)
- 250-424 5/8" (16mm) wide, 7 1/2" (19cm)
- 250-425 3/4" (19mm) wide, 8" (20.3cm)
- 250-426 1" (25mm) wide, 8 3/4" (21.3cm)



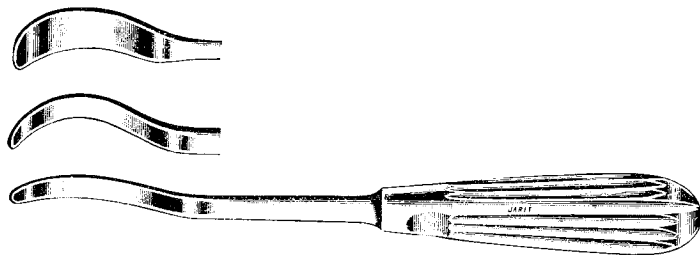
SCOTT-McCRACKEN Elevators

- 250-440 1/2" (13mm) wide, 6 3/4" (17.1cm)
- 250-441 3/4" (19mm) wide, 6 3/4" (17.1cm)
- 250-442 1/2" (13mm) wide, 8 1/2" (21.6cm)
- 250-443 3/4" (19mm) wide, 8 1/2" (21.6cm)



CREGO Elevators,
8" (20.3cm)

- 250-470 7mm wide, 1 1/8" inside radius
- 250-471 7mm wide, 1 1/16" inside radius
- 250-472 14mm wide, 1 1/16" inside radius

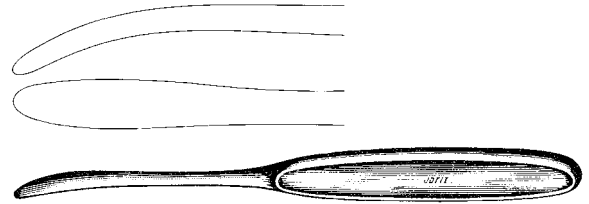


CHANDLER Elevators

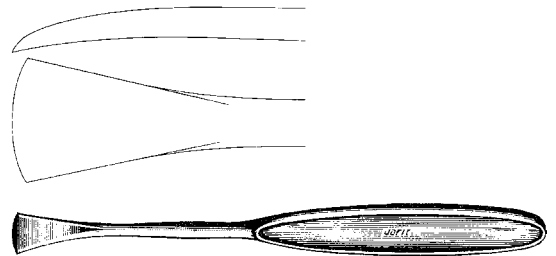
- 250-480 7 1/2" (19cm), maximum blade width 13mm
- 250-481 8" (20.3cm), maximum blade width 20mm
- 250-482 9" (22.9cm), maximum blade width 25mm
- 250-483 10" (25.4cm), maximum blade width 31mm



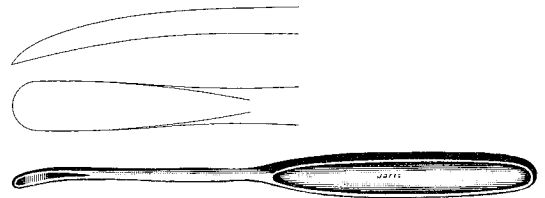
250-490 LANGENBECK Elevator,
8¼" (21cm), blade 6.5mm wide



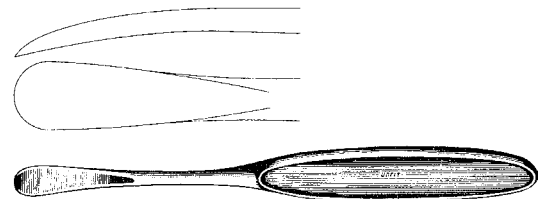
250-492 LANGENBECK Elevator,
7¾" (19.8cm), blade 17.5mm wide



250-495 LANE Elevator,
7½" (19cm), blade 7mm wide



250-496 LANE Elevator,
7½" (19cm), blade 10mm wide



250-500 **SAYRE** Elevator,
6 $\frac{3}{4}$ " (17.1cm), double ended, sharp,
blade 9.5mm wide

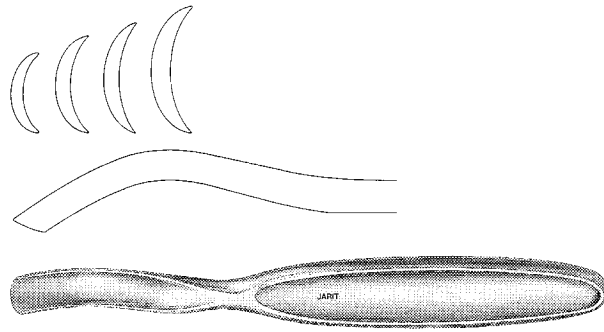


250-502 **SAYRE** Elevator,
6 $\frac{3}{4}$ " (17.1cm), double ended, blunt,
blade 9.5mm wide



MCGLAMRY Elevators,
6 $\frac{1}{2}$ " (16.5cm), sharp

- 250-503** 11mm blade
- 250-504** 13mm blade
- 250-505** 15mm blade
- 250-506** 17mm blade



250-510 **SEDILLOT** Elevator,
7 $\frac{1}{2}$ " (19cm),
blade 19mm wide



255-100 MATHIEU Raspatory,
6¼" (15.9cm), straight blade 11.7mm wide



255-110 FARABEUF Raspatory,
6¼" (15.9cm), straight blade 13mm wide



255-111 FARABEUF Raspatory,
6¼" (15.9cm), curved blade 13mm wide

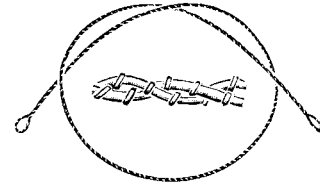


255-112 FARABEUF Raspatory,
7½" (19cm), double ended,
straight and curved blades 13mm wide

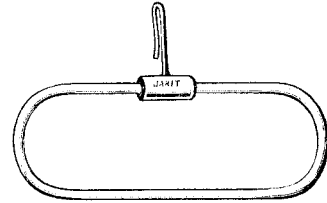


GIGLI Wire Saw Blades,
Stille-type, package of 10

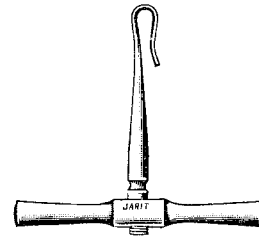
- 260-104** 12" (30.5cm)
- 260-105** 16" (40.6cm)
- 260-106** 20" (50.8cm)



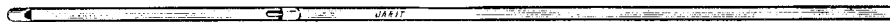
- 260-109** **GIGLI** Saw Handles,
loop style, pair



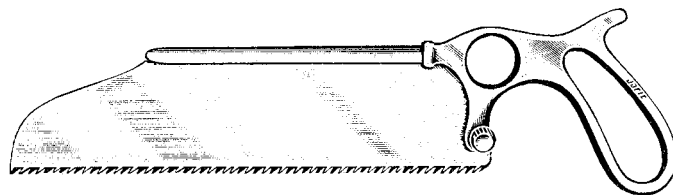
- 260-110** **GIGLI** Saw Handles,
solid, pair



- 260-112** **BAILEY** Gigli Saw Guide,
13" (33cm)

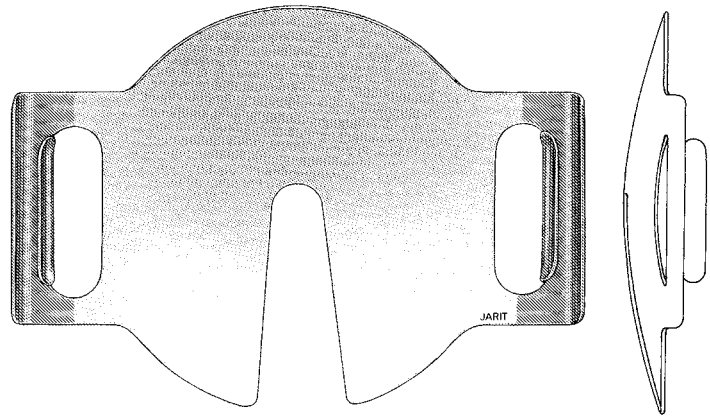


- 260-120** **SATTERLEE** Saw,
8" (20.3cm)



- 260-121** **BLADE** only for 260-120

260-135 LANGENBECK Metacarpal Saw,
9" (22.9cm), blade 4½" (11.4cm)

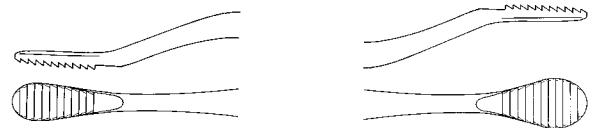


260-160 SWEET Amputation Retractor

260-200 PUTTI Rasps,
double ended,
12" (30.5cm),
one round blade and one half-round blade



260-201 10½" (26.6cm), flat blades,
one blade curved up and one blade curved sideways



260-205 MILLER Rasp,
7" (17.8cm), double ended

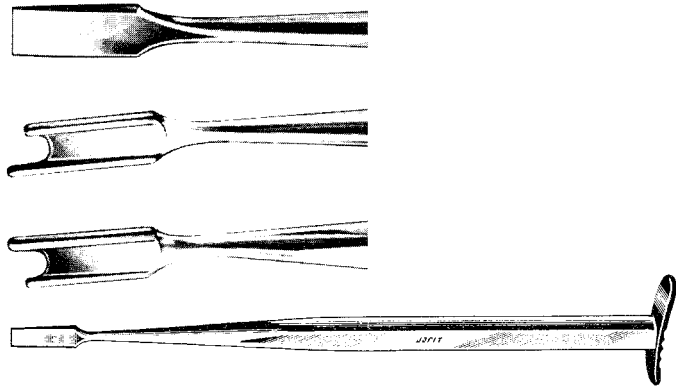


260-210 BONE File,
9½" (24.1cm), half-round blade

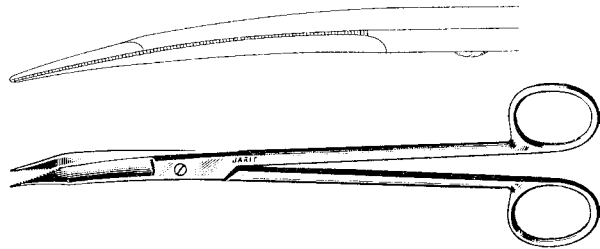


SMILLIE Meniscus Knives,
6 $\frac{3}{4}$ " (17.1cm)

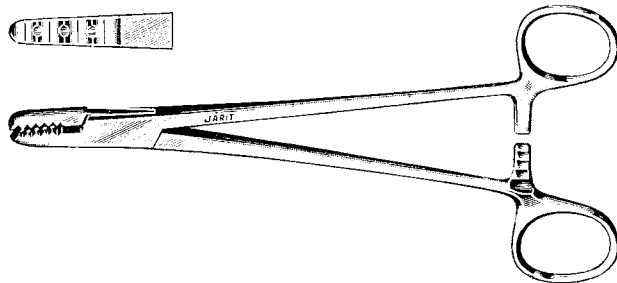
- 270-120 Straight edge
- 270-121 Left
- 270-122 Right



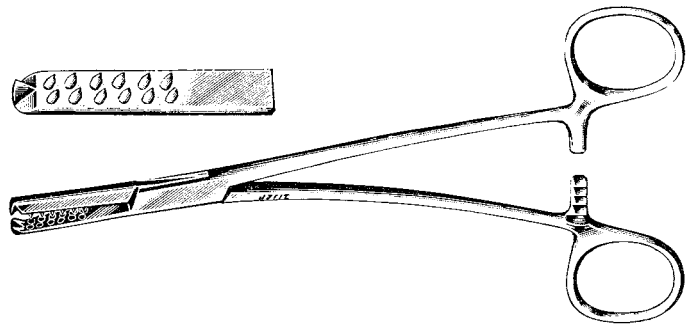
270-150 **MARTIN** Cartilage Scissors,
8" (20.3cm), curved, serrated



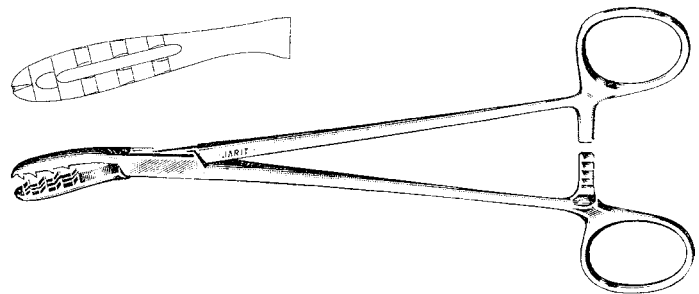
270-157 **MARTIN** Cartilage Clamp,
7" (17.8cm)



270-165 **JARIT** Meniscus Clamp,
7¼" (18.4cm)

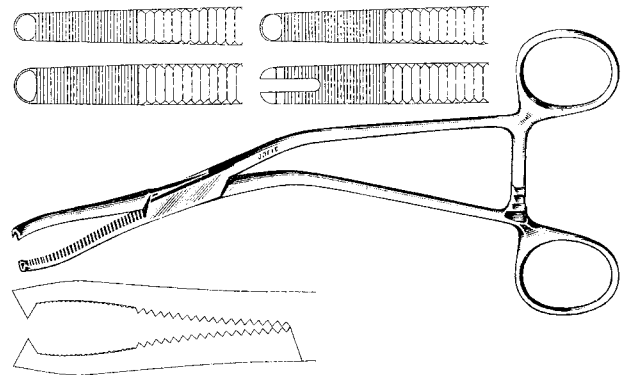


270-170 **JARIT** Cartilage Clamp,
8" (20.3cm), curved

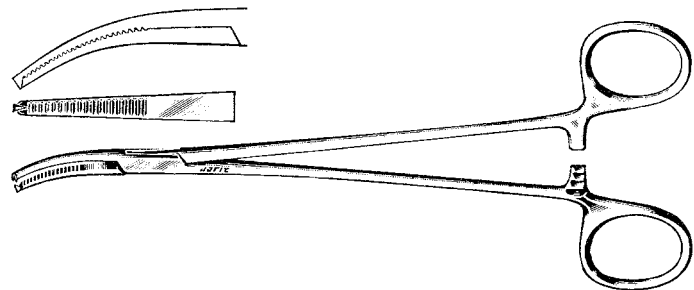


DINGMAN Cartilage Clamps,
7½" (19cm)

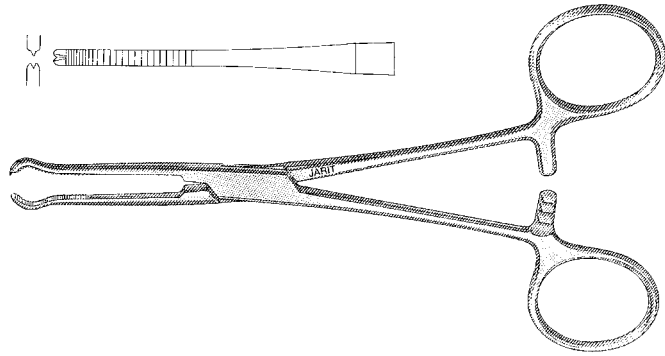
- 270-175** Delicate
- 270-176** Heavy



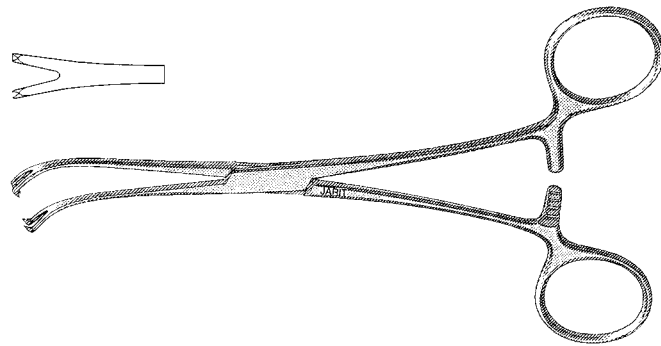
270-180 **PRESTON** Ligamentum Flavum Forceps,
7¼" (18.4cm)



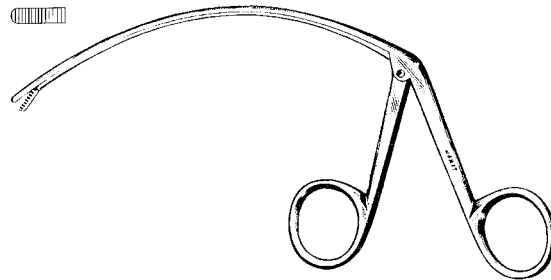
270-182 **LOCKE** Phalangeal Forceps,
6" (15.2cm), serrated jaws, 1 x 2 teeth



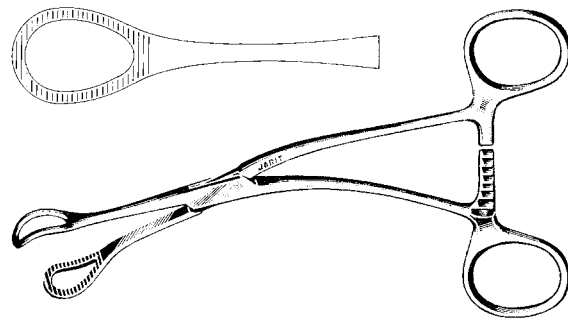
270-183 **JARIT** Sesamoidectomy Clamp,
6½" (16.5cm), curved



270-185 **JARIT** Tendon Pulling Forceps,
curved shaft, 5" (12.7cm),
serrated jaws, alligator action

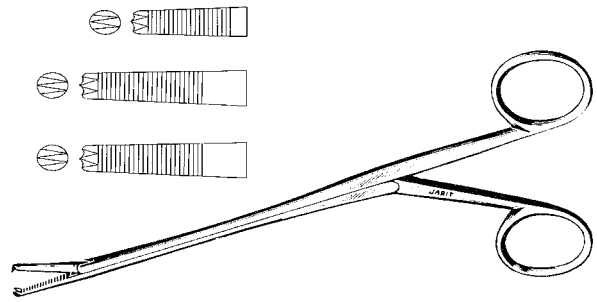


270-186 **JARIT** Small Bone Holding Clamp,
6" (15.2cm), serrated jaws



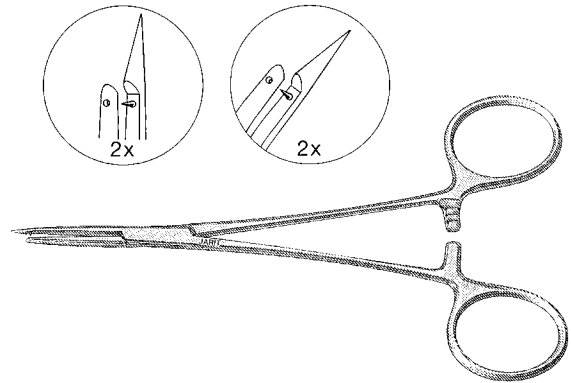
BRAND Tendon Pulling Forceps,
2 x 3 teeth

- 270-187** 6" (15.2cm)
- 270-188** 7½" (19cm)
- 270-189** 9½" (24cm)



JARIT Tendon Passing Forceps,
6" (15.2cm)

- 270-195** 8mm pointed tip, straight
- 270-196** 5mm pointed tip, curved

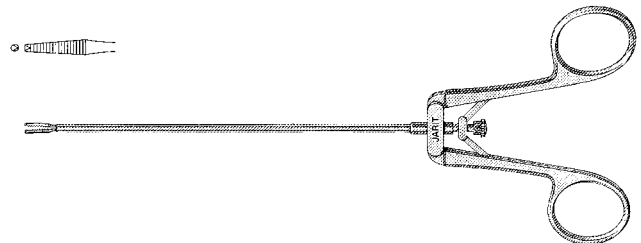


BUNNELL Tendon Passers and Forwarding Probes,

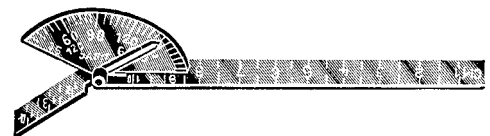
- 270-197** 7½" (18.7cm)
- 270-198** 8½" (22.5cm)

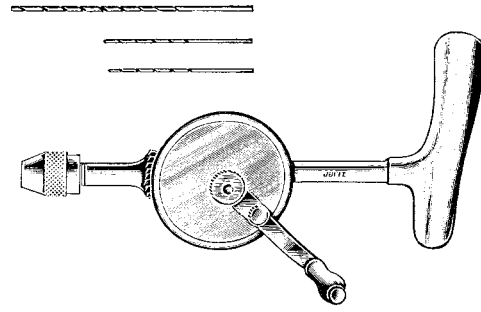


- 270-200** **KLEINERT-KUTZ** Tendon Retriever,
8" (20.3cm), serrated, 1 x 2 teeth

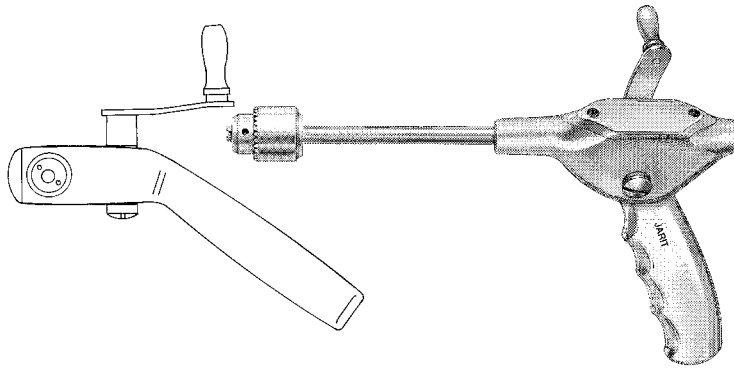


- 270-225** **JARIT** Finger Goniometer,
5½" (14cm)

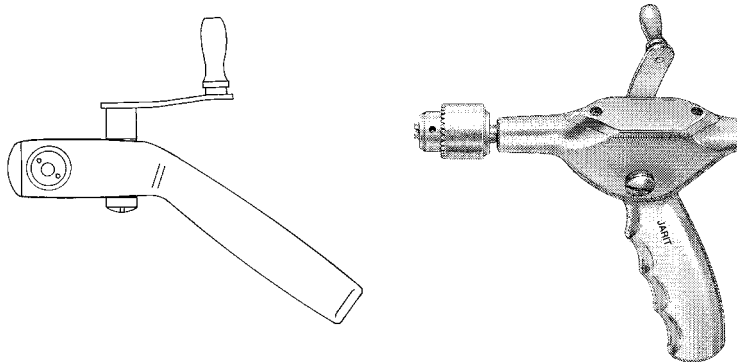




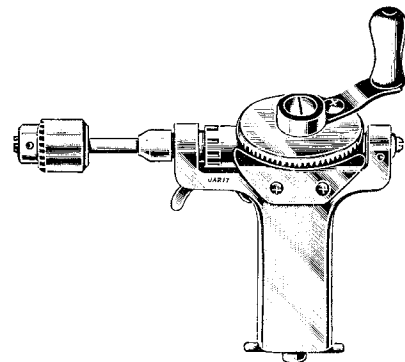
275-115 MOORE Bone Drill



275-125 HAND DRILL
10" cannulated, 3-jaw stainless Jacobs chuck,
accepts wire/pin up to 6.35mm (1/4"),
aluminum body with offset handle

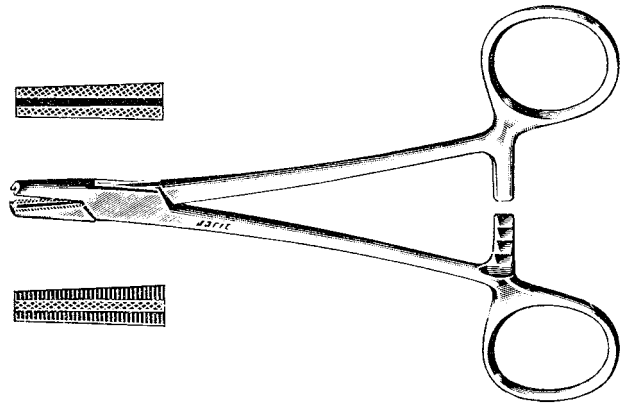


275-126 HAND DRILL
6" cannulated, 3-jaw stainless Jacobs chuck,
accepts wire/pin up to 6.35mm (1/4"),
aluminum body with offset handle

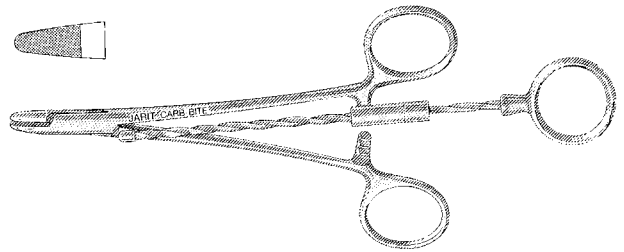


275-135 BUNNELL Hand Drill,
with Jacobs chuck

275-140 JARIT Wire Pulling Forceps,
6½" (16.5cm), maximum capacity 1mm

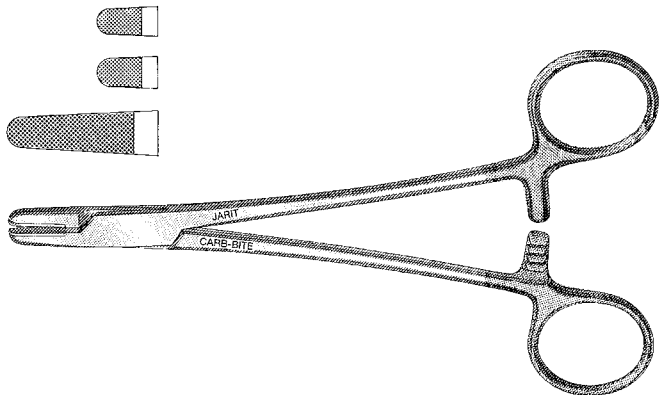


275-145 CORWIN Wire Twister,
6" (15.2cm), CARB-BITE jaws



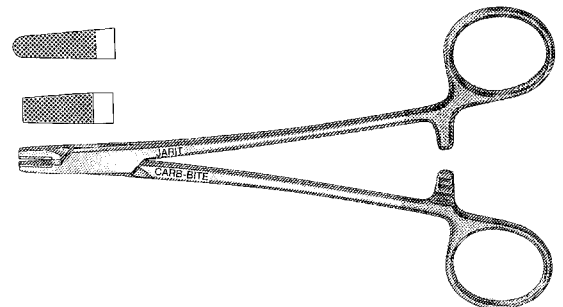
JARIT Sternal Needle Holder and Wire Twisters,
CARB-BITE jaws

121-250 5" (12.7cm)
121-255 7" (17.8cm)
121-260 7¾" (19.7cm), heavy duty 6mm wide jaws



JARIT Wire Twisters,
6" (15.2cm), CARB-BITE jaws

121-257 Short delicate jaws
121-258 Short blunt jaws



JARIT-HERCULES SUPERCUTTER,

Multi-leveraged design multiplies power transfer to the cutting blades

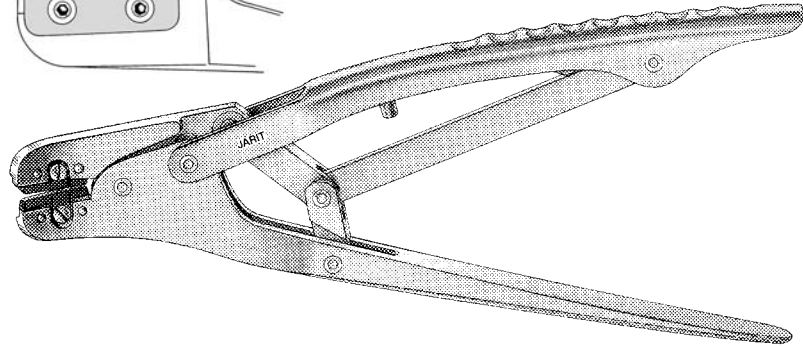
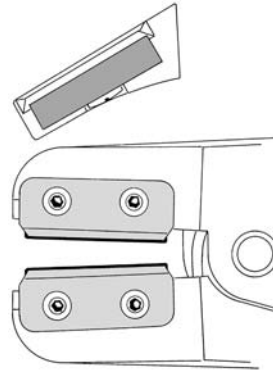
Requires 40% less energy than ordinary multiple-action wire cutters

Makes a clean, precise cut on K-wires

Strong, yet light-weight stainless steel construction

Tungsten-Carbide blades are replaceable

U.S. Patent No. 4,891,883

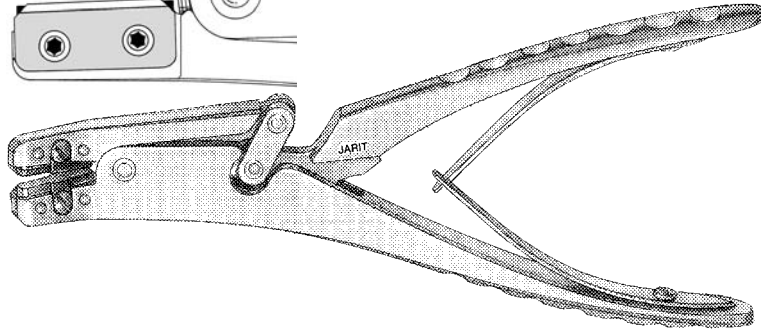
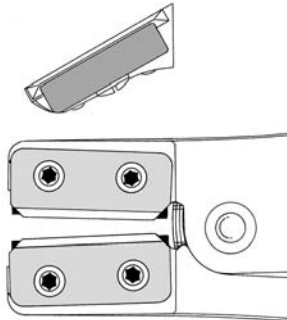


275-500 9" (22.9cm) length
maximum capacity 0.118" (3mm)

275-501 REPLACEMENT Blade Kit for 275-500

- includes:
- 1 pair Tungsten Carbide blades
- 4 screws
- 1 hexagonal key

275-502 PROTECTIVE Shield for 275-500,
set of 2



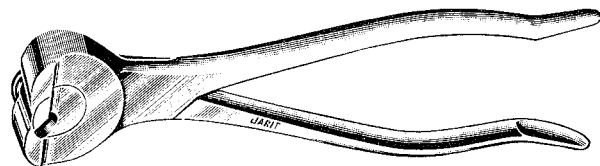
275-503 7" (17.8cm) length
maximum capacity .087" (2.2mm)

275-504 REPLACEMENT Blade Kit for 275-503

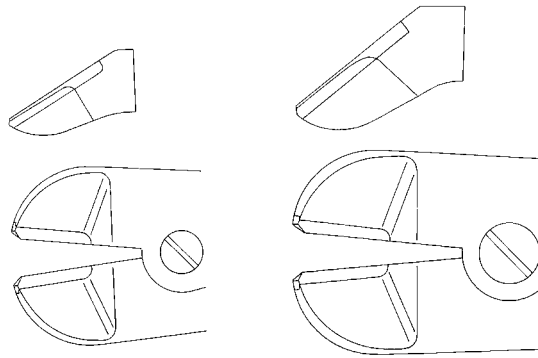
- includes:
- 1 pair Tungsten Carbide blades
- 4 screws
- 1 hexagonal key

275-505 PROTECTIVE Shield for 275-503,
set of 2

275-155 JARIT Pin Cutter,
6 1/4" (15.9cm),
maximum capacity .079" (2mm)



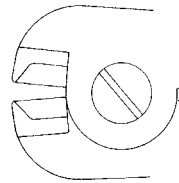
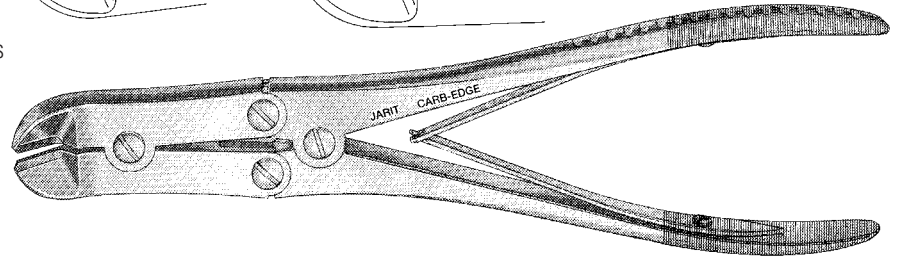
JARIT WIRE CUTTERS



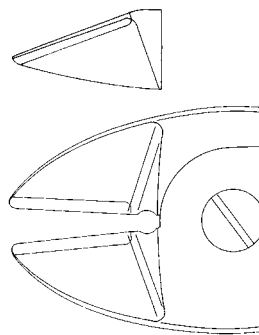
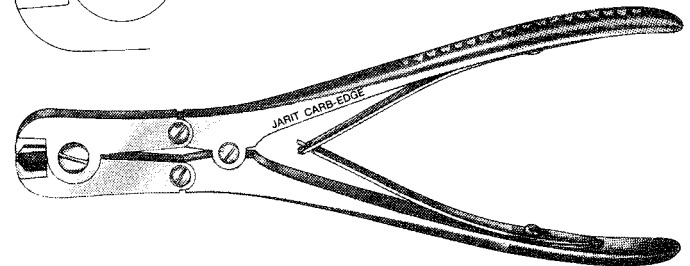
JARIT Wire Cutters,
up-angled, CARB-EDGE jaws

275-510 7" (17.8cm),
maximum capacity-
.067" (1.7mm)

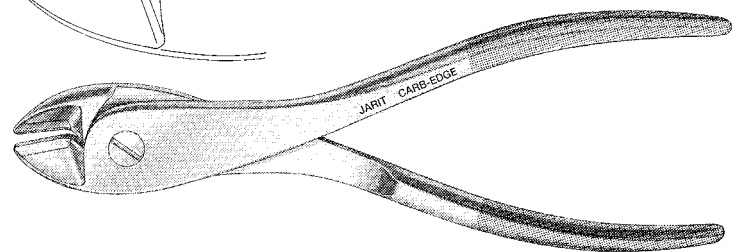
275-515 8½" (21.6cm),
maximum capacity-
.098" (2.5mm)

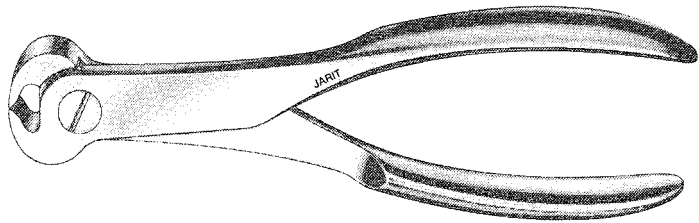
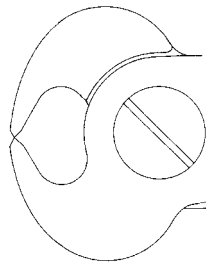


275-525 **JARIT** Flush Wire Cutter,
7" (17.8cm) CARB-EDGE jaws,
maximum capacity .067" (1.7mm)

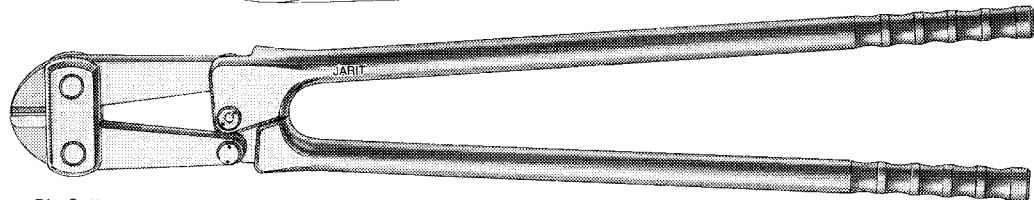
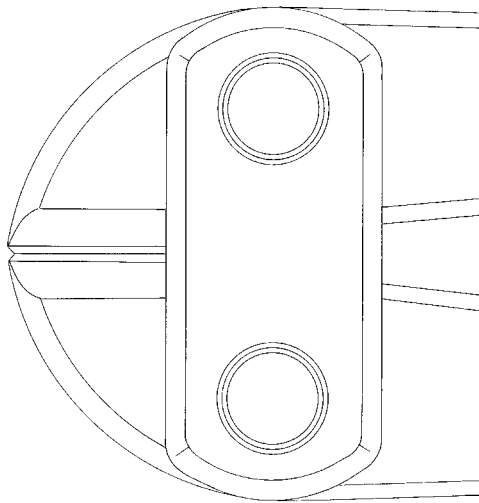


275-530 **JARIT** Wire Cutter,
7" (17.8cm),
side cutting, CARB-EDGE jaws,
maximum capacity .059" (1.5mm)

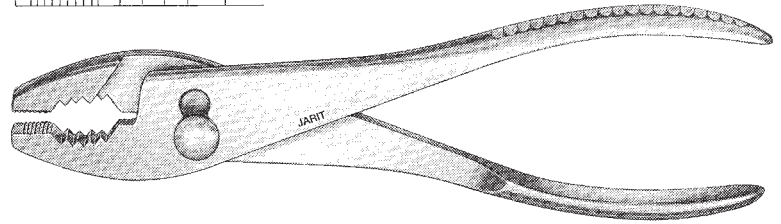
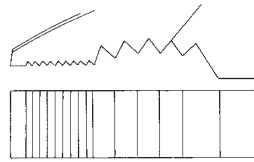




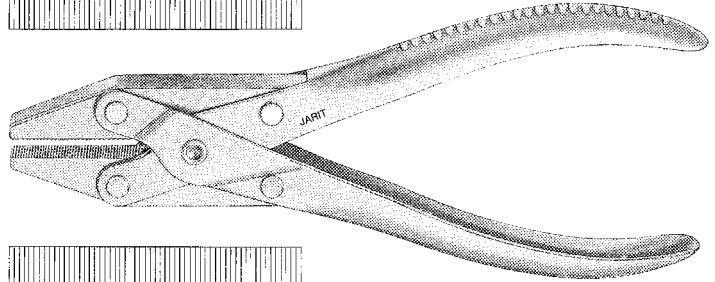
275-540 JARIT Cannulated Pin Cutter,
7½" (19cm), end-cutting,
maximum capacity .062" (1.6mm)



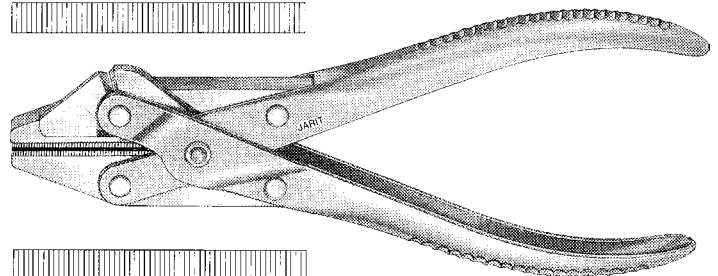
275-550 JARIT Large Pin Cutter,
22" (55.6cm), cuts rods up to .250" (6.3mm),
toggle joint transfers leverage to the cutting blades



275-555 JARIT Slip Joint Adjustable Pliers,
7 $\frac{3}{4}$ " (19.7cm)



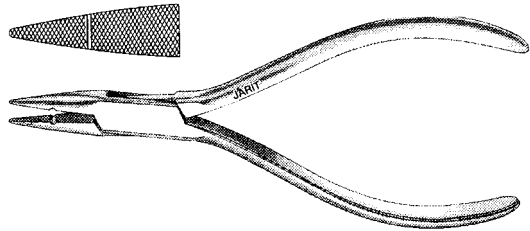
275-560 JARIT Parallel Pliers,
7" (17.8cm), grooved 10mm wide jaws
for pin removal



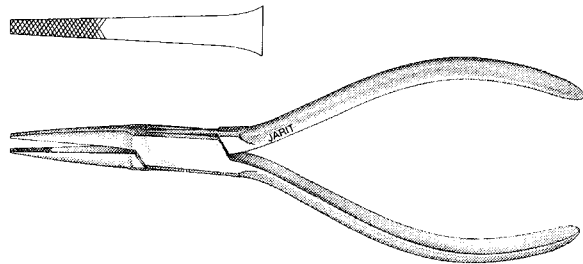
275-561 JARIT Parallel Pliers with Side Cutter,
7" (17.8cm), grooved 10mm wide jaws
for pin removal, maximum capacity .062" (1.6mm)



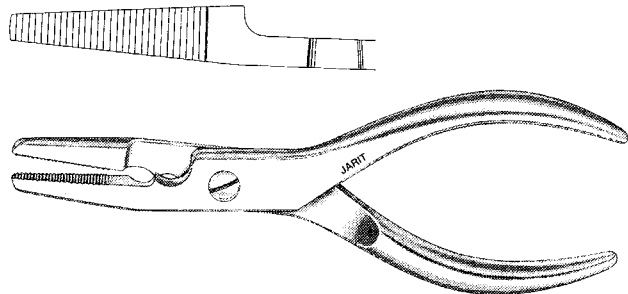
275-565 JARIT Needle Nose Pliers,
5½" (13cm), grooved jaws,
tips taper to 1mm

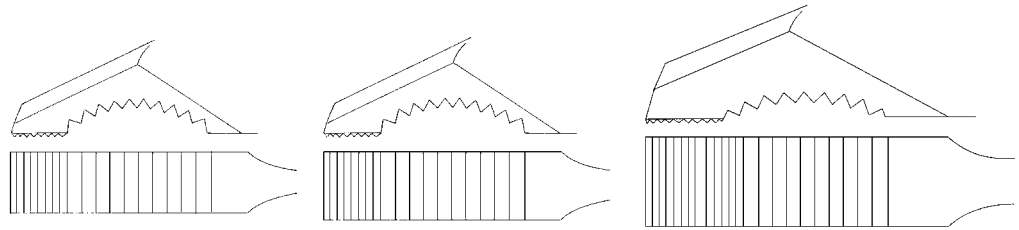


275-570 JARIT Flat Nose Pliers,
6" (15.2cm), tips taper to 2mm



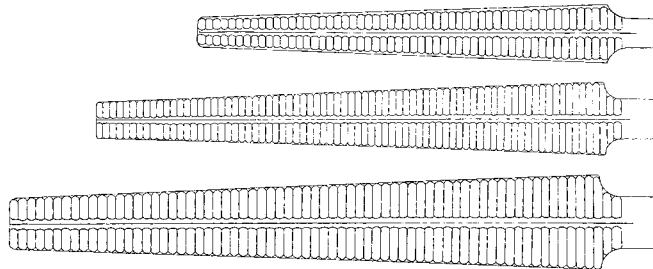
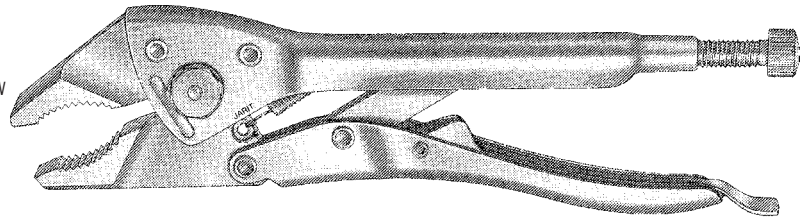
275-580 JARIT Flat Nose Pliers,
6½" (16.5cm) side cutting blades,
tips taper to 3.5mm





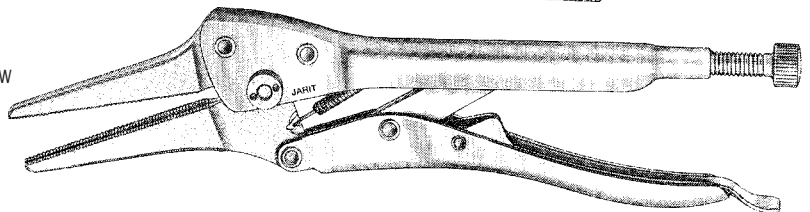
JARIT Heavy Duty Locking Pliers, reinforced jaw hinge, self-locking lever with adjustment screw and one-handed quick release

- 275-589** 6 $\frac{1}{4}$ " (17.1cm), 7mm wide tip
- 275-590** 8" (20.3cm), 9mm wide tip
- 275-591** 9 $\frac{1}{2}$ " (24.1cm), 13mm wide tip

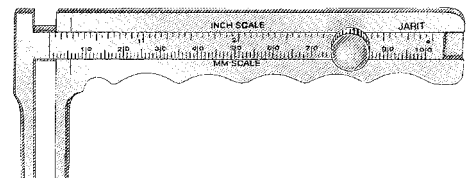


JARIT Heavy Duty Locking Pliers, reinforced jaw hinge, self-locking lever with adjustment screw and one-handed quick release

- 275-594** 8 $\frac{3}{4}$ " (21.9cm), 5mm wide tip
- 275-595** 9 $\frac{1}{2}$ " (24.1cm), 5mm wide tip
- 275-596** 11 $\frac{1}{2}$ " (29.2cm), 7mm wide tip

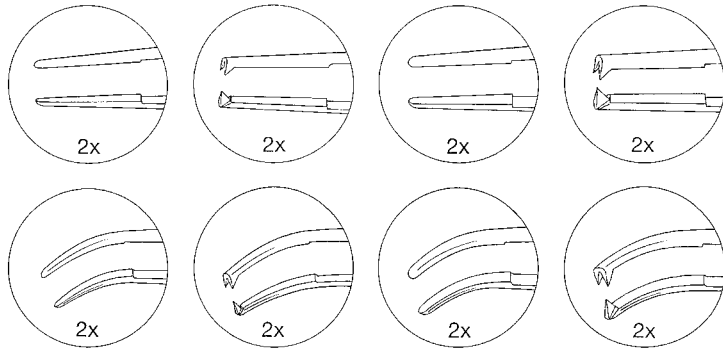


- 275-600** **TOWNLEY** Femur Caliper, 4 $\frac{1}{2}$ " (11.4cm)

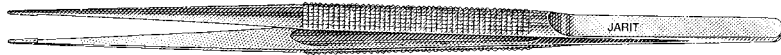
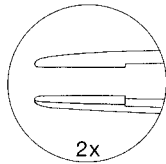


JARIT Microsurgical Forceps
with platform, round handle, 7" (17.8cm)
(Details Shown Left to Right)

- 277-040** Straight, 0.4mm micro tip
- 277-041** Straight, 0.5mm micro tip, 1 x 2 teeth
- 277-042** Straight, 0.8mm delicate tip
- 277-043** Straight, 0.8mm delicate tip, 1 x 2 teeth
- 277-044** Curved, 0.4mm micro tip
- 277-045** Curved, 0.5mm micro tip, 1 x 2 teeth
- 277-046** Curved, 0.8mm delicate tip
- 277-047** Curved, 0.8mm delicate tip, 1 x 2 teeth

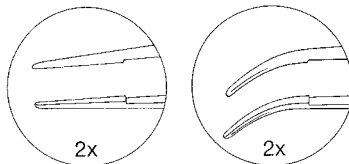


- 277-049** **RHOTON**-Type Suture Tying Forceps
with platform, round handle,
7" (17.8cm), straight



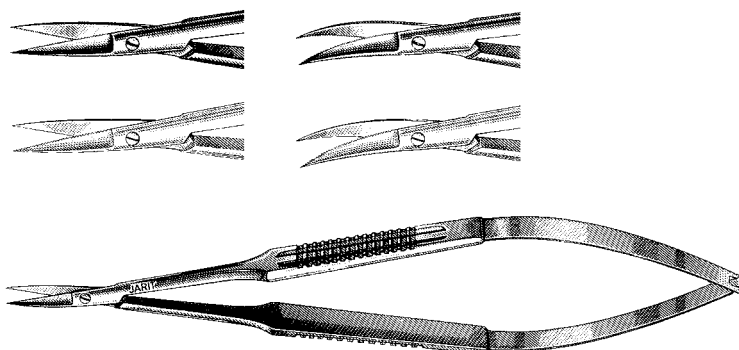
JARIT Micro Suture Tying Forceps
with platform, round handle,
6" (15.2cm)

- 277-080** Straight
- 277-081** Curved



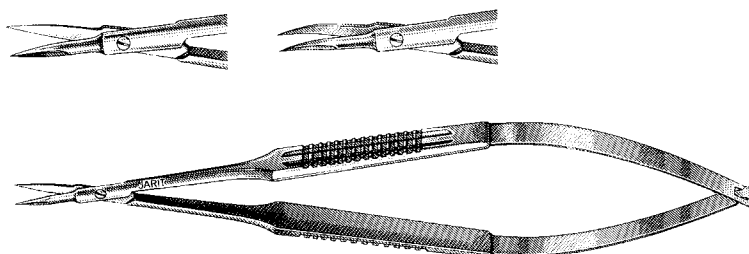
JARIT Microsurgical Scissors,
wide handle, 6" (15.2cm),
regular blade

- 277-050** Straight
- 277-051** Curved
- 277-053** Straight, serrated
- 277-054** Curved, serrated



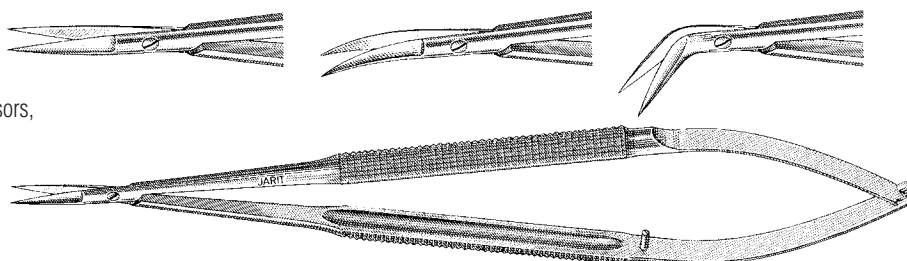
JARIT Microsurgical Scissors,
wide handle, 6" (15.2cm),
micro blade

- 277-056** Straight
- 277-057** Curved



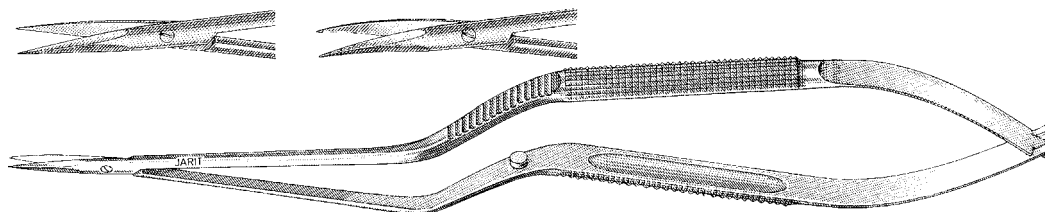
JARIT Microsurgical Scissors,
round handle, 7" (17.8cm),
regular blade

- 277-060** Straight
- 277-061** Curved
- 277-062** Angled to side, 60°



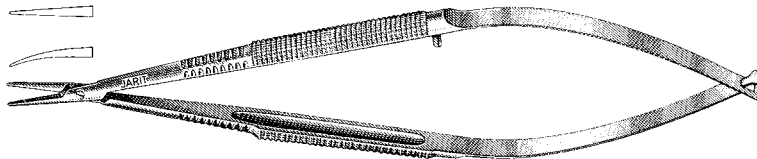
JARIT Microsurgical Scissors,
round handle, bayonet shape, 8½" (21.6cm),
regular blade

- 277-065** Straight
- 277-066** Curved



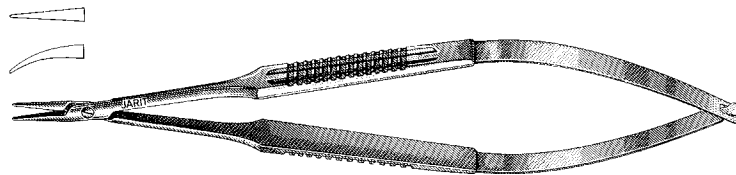
JARIT Microsurgical Needle Holders,
round handle, 6" (15.2cm)

- 277-070** Straight jaw
- 277-071** Curved jaw
- 277-072** Straight jaw, catch
- 277-073** Curved jaw, catch



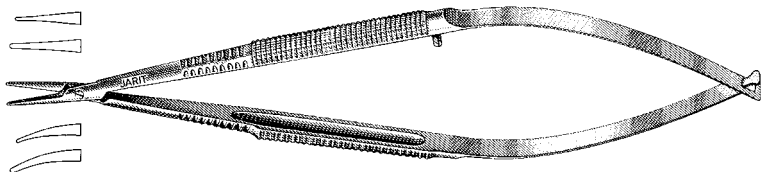
JARIT Microsurgical Needle Holders,
wide handle, 6" (15.2cm)

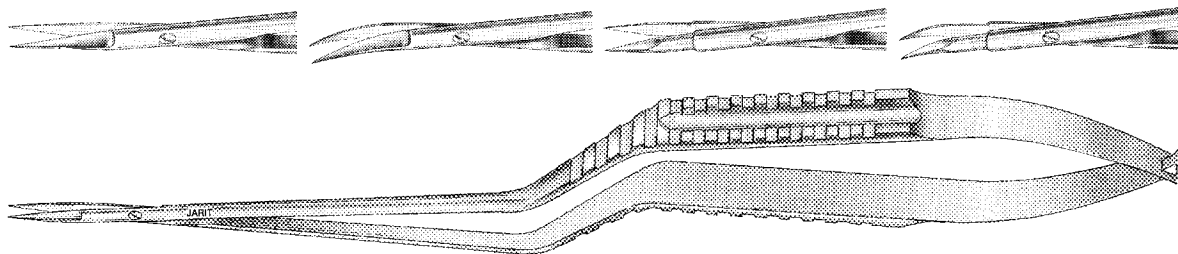
- 277-075** Straight jaw
- 277-076** Curved jaw



JARIT Microsurgical Needle Holders,
round handle, 7" (17.8cm)

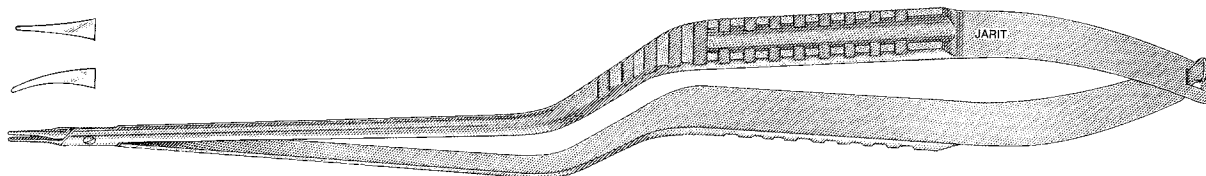
- 277-090** Straight jaw, micro tip
- 277-091** Straight jaw, micro tip, catch
- 277-092** Straight jaw, delicate tip
- 277-093** Straight jaw, delicate tip, catch
- 277-094** Curved jaw, micro tip
- 277-095** Curved jaw, micro tip, catch
- 277-096** Curved jaw, delicate tip
- 277-097** Curved jaw, delicate tip, catch





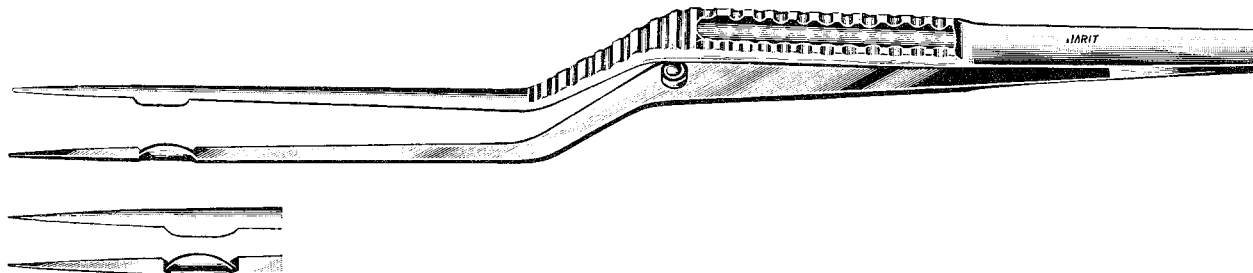
YASARGIL Scissors,
bayonet handle, 8¼" (22.2cm)

- 277-100** Straight, regular blade
- 277-101** Curved, regular blade
- 277-103** Straight, micro blade
- 277-104** Curved, micro blade



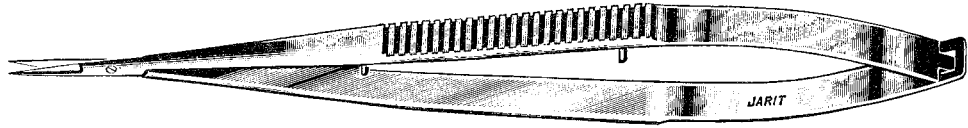
YASARGIL Needle Holders,
bayonet handle, 8¼" (22.2cm)

- 277-110** Straight jaw
- 277-111** Curved jaw



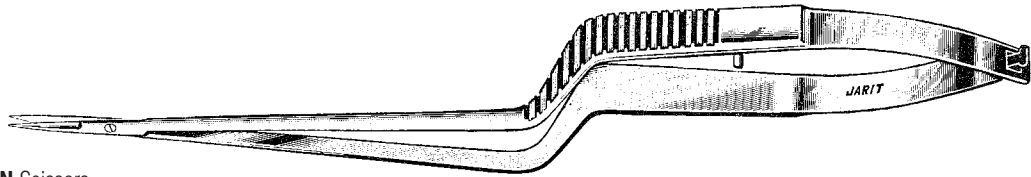
YASARGIL Forceps,
bayonet handle, 8¼" (22.2cm)

- 277-115** Blunt tips
- 277-116** Sharp tips



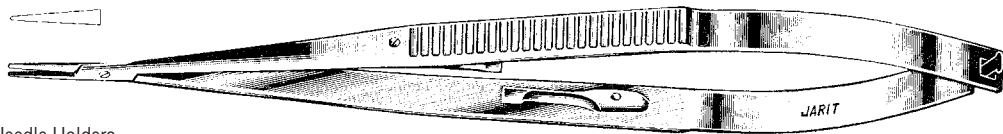
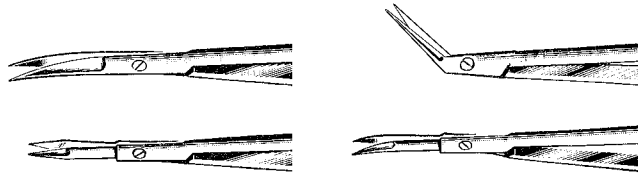
JACOBSON Scissors,
straight handle, 7 1/4" (18.4cm)

- 277-120 Straight blade
- 277-121 Curved blade
- 277-122 Angled on edge



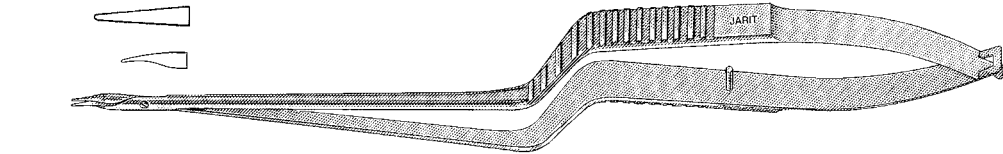
JACOBSON Scissors,
bayonet handle, 7 1/4" (18.4cm)

- 277-130 Straight, regular blade
- 277-131 Curved, regular blade
- 277-132 Angled on edge, regular blade
- 277-135 Straight, micro blade
- 277-136 Curved, micro blade



JACOBSON Needle Holders,
straight handle, 7" (17.8cm)

- 277-140 Without catch
- 277-141 With catch



JACOBSON Needle Holders,
bayonet handle, without catch, 7" (17.8cm)

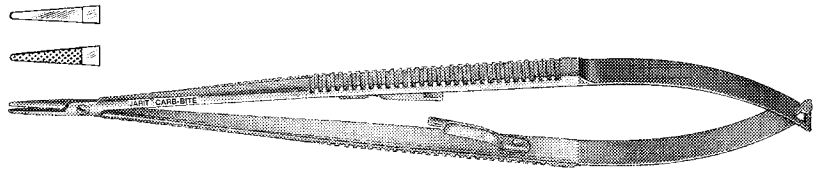
- 277-145 Straight jaw
- 277-147 Fine curved jaw



**JARIT Microsurgical Needle Holders,
CARB-BITE**

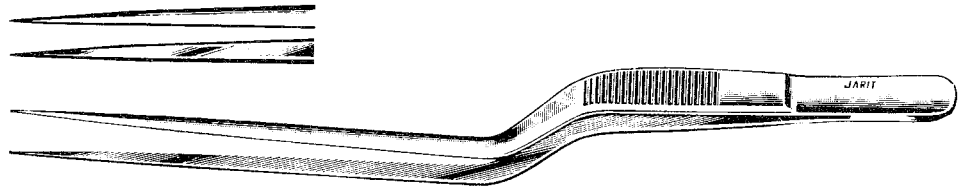
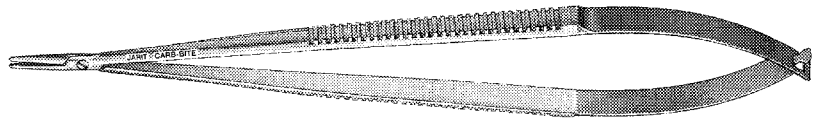
With Lock

- 121-228** 7" (17.8cm), smooth jaws
- 121-229** 7" (17.8cm), serrated jaws
- 121-230** 8½" (21.6cm), smooth jaws
- 121-231** 8½" (21.6cm), serrated jaws

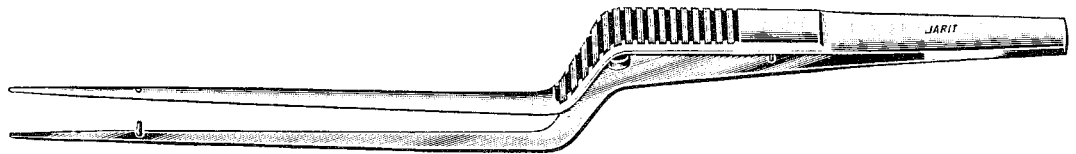


Without Lock

- 121-228NL** 7" (17.8cm), smooth jaws
- 121-229NL** 7" (17.8cm), serrated jaws
- 121-230NL** 8½" (21.6cm), smooth jaws
- 121-231NL** 8½" (21.6cm), serrated jaws



- 277-159 JACOBSON Forceps,**
bayonet handle, 6¼" (15.9cm), sharp tips



JACOBSON Forceps,
bayonet handle, 7¼" (18.4cm)

- 277-160** Blunt tips
- 277-161** Sharp tips
- 277-162** Angled blunt tips


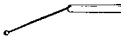
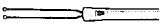



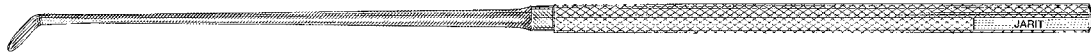


KNIVES, PROBES AND RASPATORIES







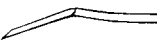





JACOBSON Instruments,
7¼" (18.4cm)

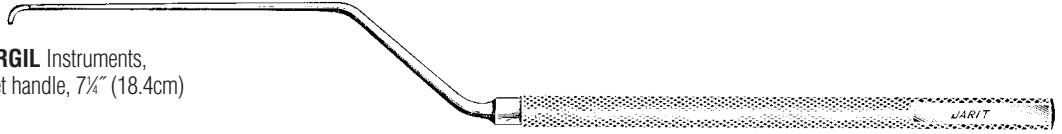
- 277-200 Vessel knife 
- 277-202 Blood vessel probe 
- 277-204 Blood vessel probe and supporter 
- 277-206 Suture pusher 



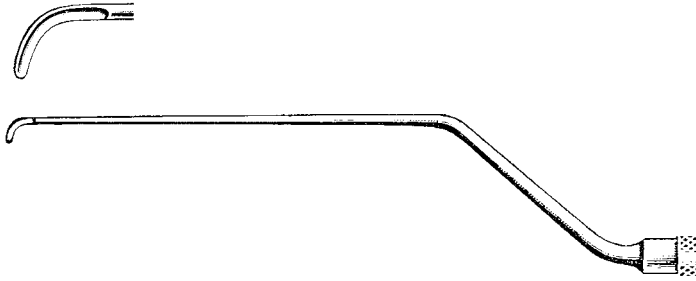
YASARGIL Instruments,
straight handle, 7¼" (18.4cm)

- 277-210 Raspatory, wide blade  
- 277-211 Raspatory, narrow, light curve  
- 277-212 Raspatory, narrow, strong curve  
- 277-213 Raspatory, angled  
- 277-215 Dissector  

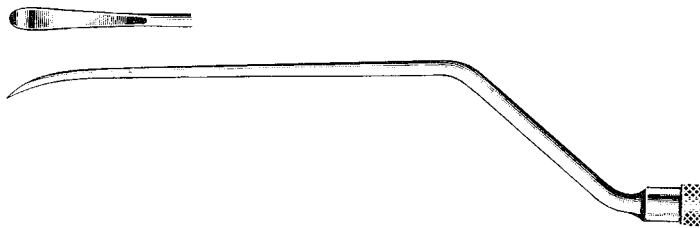
YASARGIL Instruments,
bayonet handle, 7 1/4" (18.4cm)



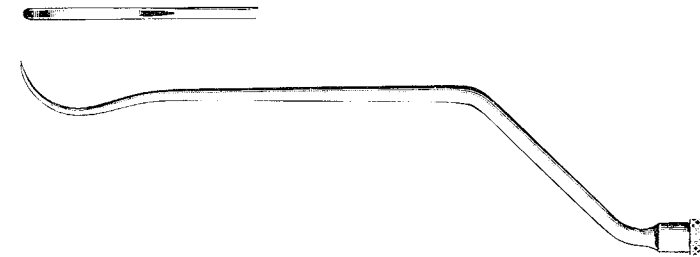
277-217 Arachnoid knife



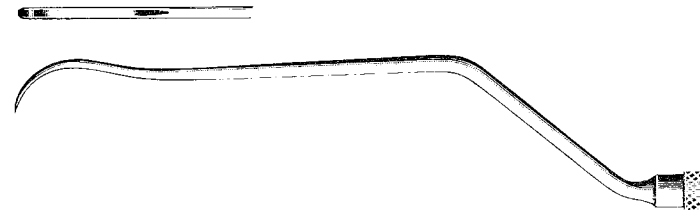
277-220 Raspatory,
light curve



277-221 Raspatory,
backward cutting

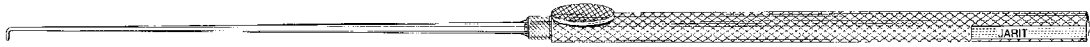


277-222 Raspatory,
forward cutting



277-225 Curette





KRAYENBUEHL Nerve Hooks,
7 $\frac{1}{4}$ " (18.4cm)

277-235 Small



277-236 Large

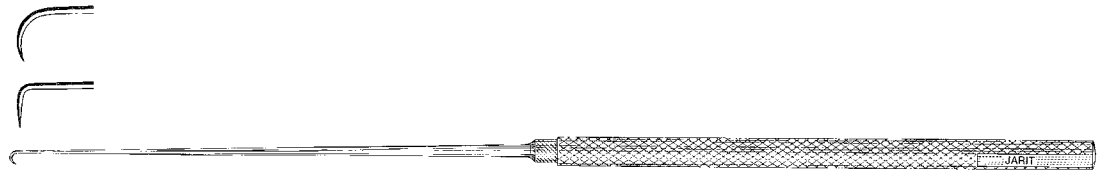


277-237 Small, ball tip



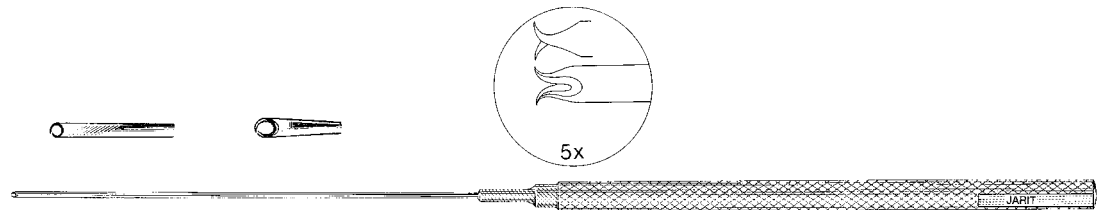
277-238 Large, ball tip





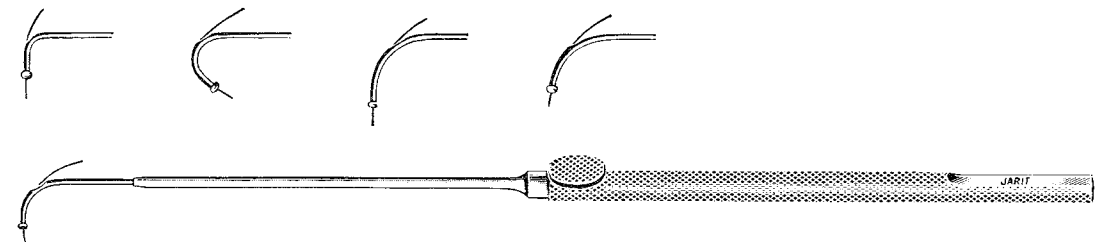
JARIT Dura Hooks,
7/8" (18.4cm)

- 277-240** Curved
- 277-241** Right angle



JARIT Twist Hooks,
7/8" (18.4cm)

- 277-244** Small: 1mm diameter
- 277-245** Large: 1.8mm diameter



YASARGIL Ligature Carriers,
7/8" (18.4cm)

- 277-250** Right angle
- 277-251** Short strong curve
- 277-252** Long strong curve
- 277-253** Long light curve



DISSECTORS, ELEVATORS, HOOKS AND CURETTES

RHOTON-Type
Dissectors,
round, 7½" (19cm)

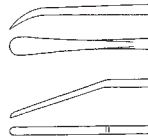


- 277-260** 1mm blade, #1
- 277-261** 2mm blade, #2
- 277-262** 3mm blade, #3

- 277-260TI**
- 277-261TI**
- 277-262TI**



RHOTON-Type
Elevators,
7½" (19cm)

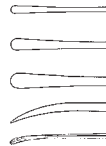


- 277-263** Curved, #4
- 277-264** Angled, #5

- 277-263TI**
- 277-264TI**



RHOTON-Type
Spatula-Dissectors,
7½" (19cm)



- 277-265** Small, #6
- 277-266** Medium, #7
- 277-267** Large, #8

- 277-265TI**
- 277-266TI**
- 277-267TI**



RHOTON-Type
Hooks,
7½" (19cm)



- 277-268** 90° Angle,
semi-sharp, #9
- 277-269** 90° Angle,
blunt, #10
- 277-270** 45° Angle,
semi-sharp, #11

- 277-268TI**
- 277-269TI**
- 277-270TI**



RHOTON-Type
Needle,
7½" (19cm)



- 277-271** Straight, #12

- 277-271TI**



RHOTON-Type
Curettes,
7½" (19cm)



- 277-272** Straight, #13
- 277-273** Angled, #14

- 277-272TI**
- 277-273TI**

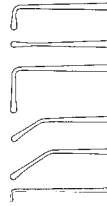




DISSECTORS, STORAGE RACKS AND FORCEPS

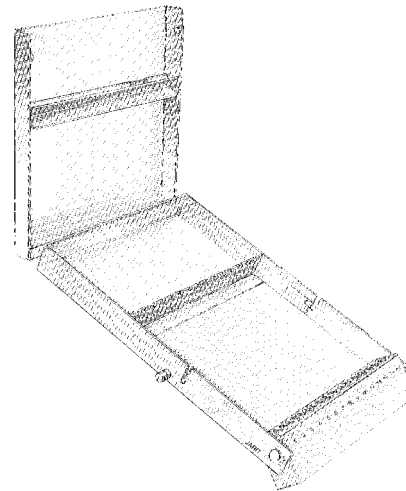
RHOTON-Type
Ball-Dissectors,
7½" (19cm)

TITANIUM



- 277-274** 90° angle, 3mm, #15 **277-274TI**
- Straight, #16 **277-276TI**
- 90° angle, 5mm, #17 **277-277TI**
- 40° angle, 4mm, #18 **277-278TI**
- 40° angle, 8mm, #19 **277-279TI**

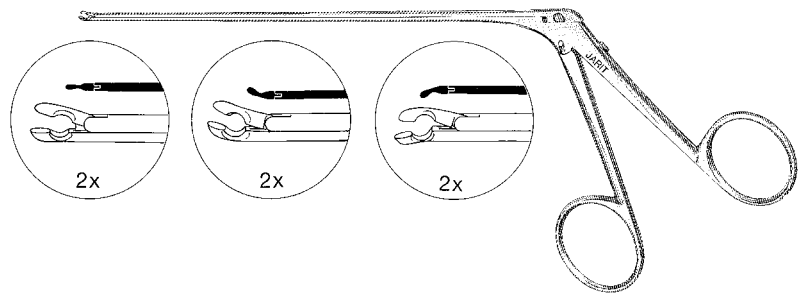
277-275 **RHOTON-Type Instrument Rack**
for sterilizing and storing 15 stainless steel instruments,
277-260 through 277-274



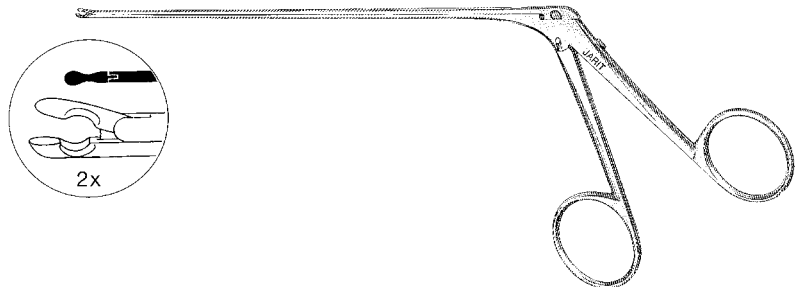
277-275TI **RHOTON-Type Instrument Rack**
for sterilizing and storing 19 titanium instruments,
277-260TI through 277-279TI

RHOTON-Type Micro Forceps,
5¼" (13.3cm) shaft, 1mm cup

- 277-290** Straight
- 277-291** Angled right
- 277-292** Angled left



277-295 **RHOTON-Type Micro Forceps,**
5¼" (13.3cm) shaft, 2mm cup, straight



JARIT STARDUST NEEDLE HOLDERS

STARDUST NEEDLE HOLDERS

Unique metallurgical process bonds tungsten carbide particles to the jaws

Jaw surfaces are smoothly textured for secure handling of delicate and micro surfaces

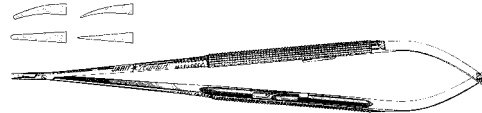
Extra hardness assures durability and firm grip without damaging needles

Hand-crafted needle holders are light weight, and superbly balanced

Round knurled handles provide non-slip grip, and controlled manipulation of needles and sutures

JARIT STARDUST Needle Holders, tungsten carbide coated jaws, round handles

Delicate Jaw Needle Holders, for 6.0 and 7.0 sutures.
Micro Jaw Needle Holders, for 8.0, 9.0, and 10.0 sutures.



Straight Delicate Jaws

- 278-092 7" (17.8cm)
- 278-094 8 1/4" (21cm)
- 278-096 9" (22.9cm)

Straight Delicate Jaws with Catch

- 278-093 7" (17.8cm)
- 278-095 8 1/4" (21cm)
- 278-097 9" (22.9cm)

Curved Delicate Jaws

- 278-100 7" (17.8cm)
- 278-102 8 1/4" (21cm)
- 278-104 9" (22.9cm)

Curved Delicate Jaws with Catch

- 278-101 7" (17.8cm)
- 278-103 8 1/4" (21cm)
- 278-105 9" (22.9cm)

Straight Micro Jaws

- 278-110 7" (17.8cm)
- 278-112 8 1/4" (21cm)
- 278-114 9" (22.9cm)

Straight Micro Jaws with Catch

- 278-111 7" (17.8cm)
- 278-113 8 1/4" (21cm)
- 278-115 9" (22.9cm)

Curved Micro Jaws

- 278-116 7" (17.8cm)
- 278-118 8 1/4" (21cm)
- 278-120 9" (22.9cm)

Curved Micro Jaws with Catch

- 278-117 7" (17.8cm)
- 278-119 8 1/4" (21cm)
- 278-121 9" (22.9cm)

TITANIUM

JARIT STARDUST Needle Holders, titanium, tungsten carbide coated jaws

Straight, Delicate, Flat with Catch

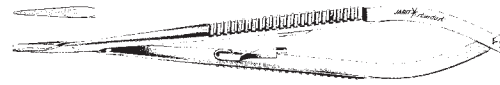
- 278-080TI 7" (17.8cm)
- 278-082TI 8 1/4" (21cm)

Straight, Delicate, Round with Catch

- 278-093TI 7 1/2" (18cm)
- 278-095TI 7 1/8" (20cm)
- 278-097TI 9 1/8" (25cm)

Straight, Micro, Round with Catch

- 278-108TI 5 1/4" (14.6cm)
- 278-111TI 7 1/8" (18cm)
- 278-113TI 7 1/2" (20cm)



JACOBSON MICRO STARDUST Needle Holders, tungsten carbide coated jaws, for larger needles,

Recommended suture size: 3 - 0 and smaller

Straight, Flat

- 278-125NL 6 3/4" (17cm)

Curved, Flat

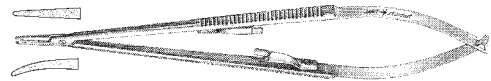
- 278-126NL 6 3/4" (17cm)

Straight, Flat with Catch

- 278-125 6 3/4" (17cm)

Curved, Flat with Catch

- 278-126 6 3/4" (17cm)



Straight, Round

- 278-130NL 7 1/2" (19cm)
- 278-132NL 9" (23cm)
- 278-134NL 10" (25cm)

Curved, Round

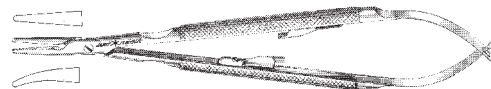
- 278-131NL 7 1/2" (19cm)
- 278-133NL 9" (23cm)
- 278-135NL 10" (25cm)

Straight, Round with Catch

- 278-130 7 1/2" (19cm)
- 278-132 9" (23cm)
- 278-134 10" (25cm)

Curved, Round with Catch

- 278-131 7 1/2" (19cm)
- 278-133 9" (23cm)
- 278-135 10" (25cm)





STARDUST MICRO SUTURE FORCEPS

STARDUST MICRO SUTURE FORCEPS

A matched set of forceps designed for tissue manipulation and needle guide

Distance between tips is precisely controlled to keep tips in line of vision and to assure accurate tip closure

Unique metallurgical process bonds tungsten carbide particles to the jaws

Jaw surfaces are smoothly textured for secure handling of delicate and micro sutures

Extra hardness assures durability and firm grip without damaging needles

Hand-crafted suture forceps are light weight, and superbly balanced

Round knurled handles provide non-slip grip, and controlled manipulation of needles and sutures

JARIT STARDUST Micro Suture Forceps, tungsten carbide coated jaws, round handles

Straight with Tying Platform

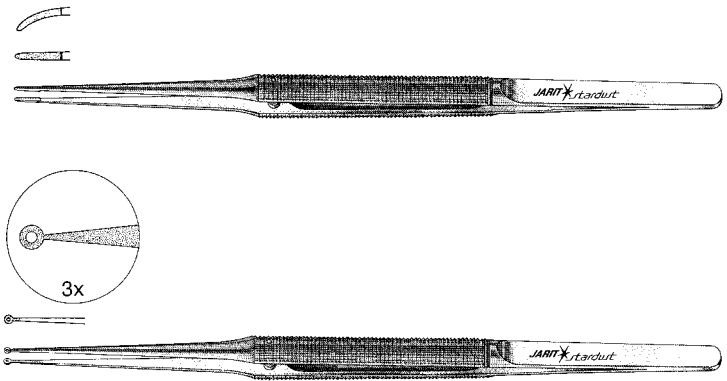
279-100 7" (17.8cm)
279-101 8 1/4" (21cm)
279-102 9" (22.9cm)

Curved with Tying Platform

279-105 7" (17.8cm)
279-106 8 1/4" (21cm)
279-107 9" (22.9cm)

Micro Ring (1.0mm OD x 0.5mm ID)

279-110 7" (17.8cm)
279-111 8 1/4" (21cm)
279-112 9" (22.9cm)



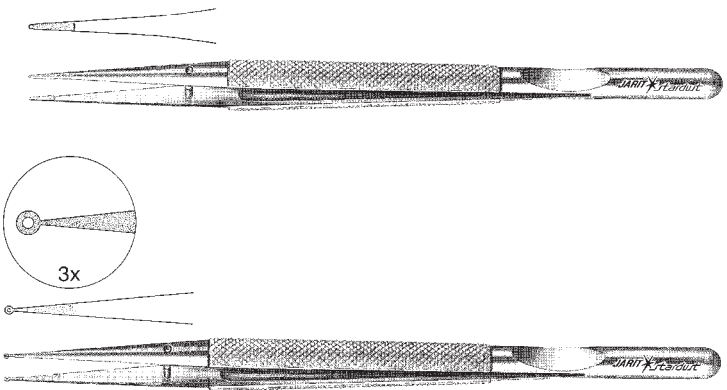
JARIT STARDUST Micro Suture Forceps, titanium, tungsten carbide coated, round handles with counter-balance

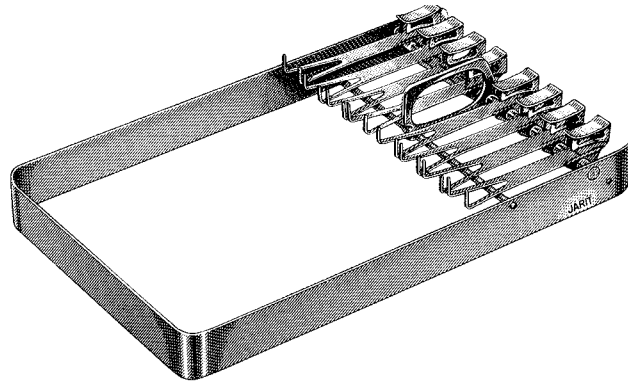
Straight with Tying Platform

279-100TI 7 1/4" (18.4cm)
279-101TI 8 3/4" (21.3cm)
279-102TI 9 1/4" (23.2cm)

Micro Ring (1.0mm OD x 0.5mm ID)

279-110TI 7" (18cm)
279-111TI 8 1/4" (21cm)
279-112TI 9" (22.9cm)



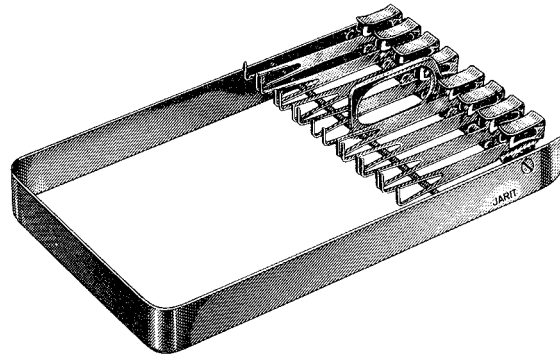


277-300 Rack for sterilizing and storing 8 instruments, 277-100 through 277-116, 121-230 and 121-231

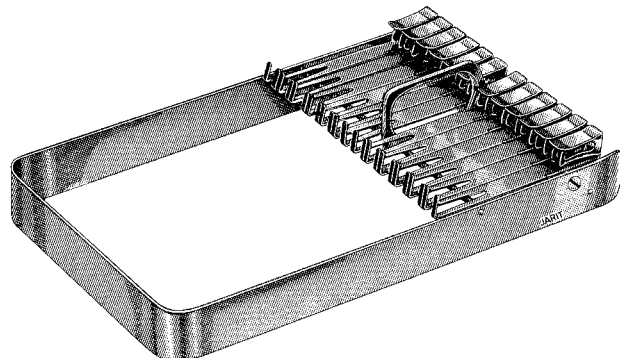


277-305 Sterilizing case for 277-300, case measures 10 $\frac{1}{4}$ " x 6" x 2" (26cm x 15cm x 5cm)

277-320 Sterilizing case for 277-310 and 277-315, case measures 9" x 5 $\frac{1}{2}$ " x 2" (23cm x 13cm x 5cm)



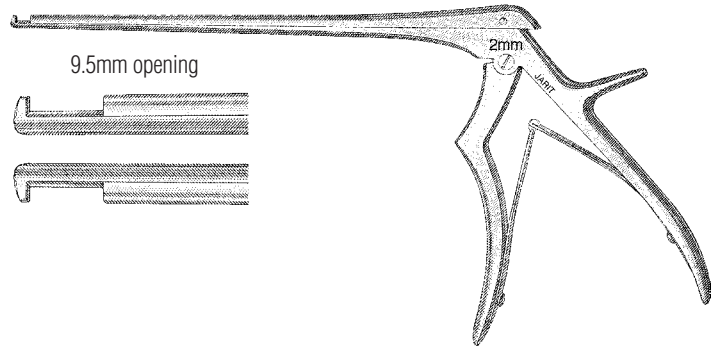
277-310 Rack for sterilizing and storing 8 instruments, 277-120 through 277-162



277-315 Rack for sterilizing and storing 12 instruments, 277-200 through 277-253

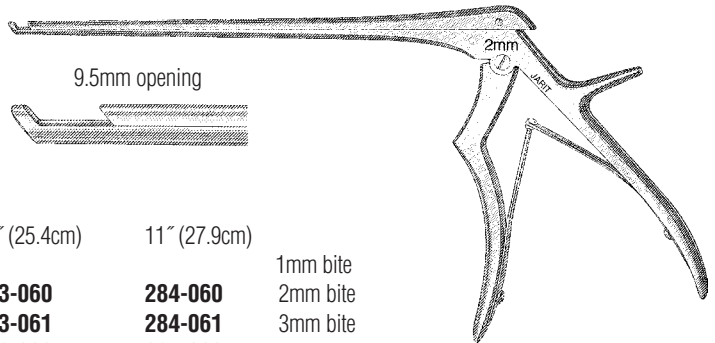
JARIT-KERRISON Rongeurs,
7" (17.8cm) shaft

90° Up-bite	90° Down-bite	
280-040		1mm bite
280-050	280-055	2mm bite
280-051	280-056	3mm bite
280-052	280-057	4mm bite
280-053	280-058	5mm bite
280-054	280-059	6mm bite



JARIT-KERRISON Rongeurs,
8" (20.3cm) shaft

90° Up-bite	90° Down-bite	
281-040		1mm bite
281-050	281-055	2mm bite
281-051	281-056	3mm bite
281-052	281-057	4mm bite
281-053	281-058	5mm bite
281-054	281-059	6mm bite



JARIT-KERRISON Rongeurs,
40° forward-angle

7" (17.8cm)	8" (20.3cm)	9" (22.9cm)	10" (25.4cm)	11" (27.9cm)	
280-041	281-041				1mm bite
280-060	281-060	282-060	283-060	284-060	2mm bite
280-061	281-061	282-061	283-061	284-061	3mm bite
280-062	281-062	282-062	283-062	284-062	4mm bite
280-063	281-063	282-063	283-063	284-063	5mm bite
280-064	281-064	282-064	283-064	284-064	6mm bite

JARIT-KERRISON Cervical Rongeurs,
thin footplate, 40° forward-angle

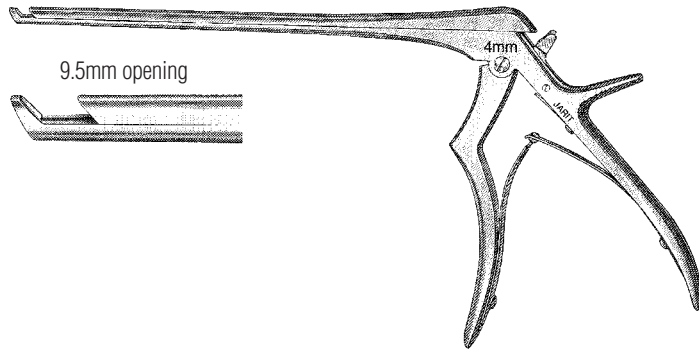
7" (17.8cm)	8" (20.3cm)	
280-060TF	281-060TF	2mm bite
280-061TF	281-061TF	3mm bite
280-062TF	281-062TF	4mm bite
280-063TF	281-063TF	5mm bite



JARIT LAMINECTOMY RONGEURS

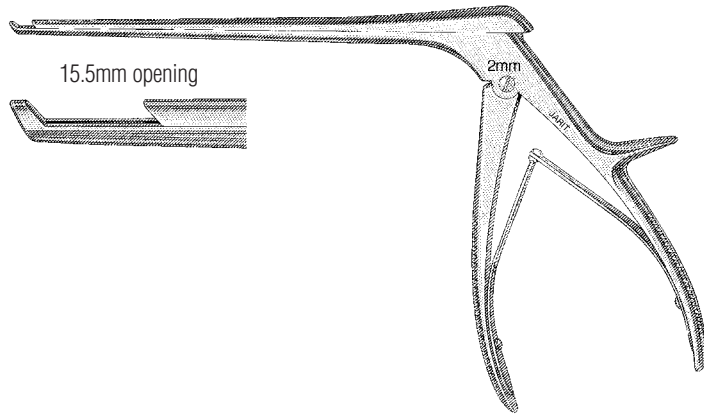
JARIT-KERRISON DETACH Cervical Rongeurs,
thin footplate, 40° forward-angle

7" (17.8cm)	8" (20.3cm)	
280-040DT	281-040DT	1mm bite
280-060DT	281-060DT	2mm bite
280-061DT	281-061DT	3mm bite
280-062DT	281-062DT	4mm bite
280-063DT	281-063DT	5mm bite



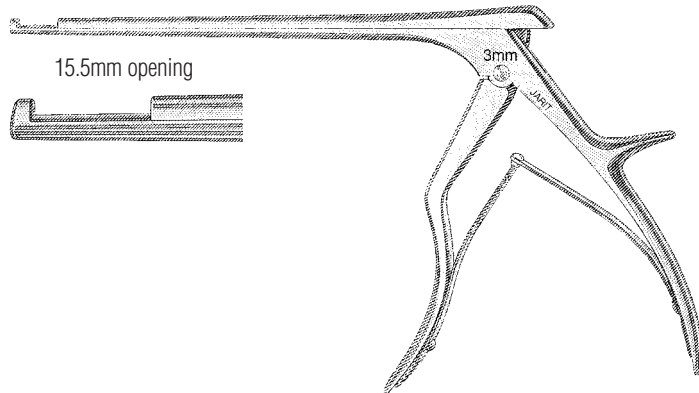
LOVE-KERRISON Rongeurs,
40° forward-angle

7" (17.8cm)	8" (20.3cm)	
280-160	280-199	2mm bite
280-161	280-200	3mm bite
280-162	280-201	4mm bite
280-163	280-202	5mm bite
280-164	280-203	6mm bite



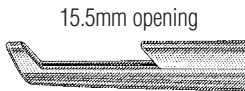
LOVE-KERRISON Rongeurs,
improved handle, 90° up-bite

7" (17.8cm)	8" (20.3cm)	
280-209	280-229	2mm bite
280-210	280-230	3mm bite
280-211	280-231	4mm bite
280-212	280-232	5mm bite
280-213	280-233	6mm bite



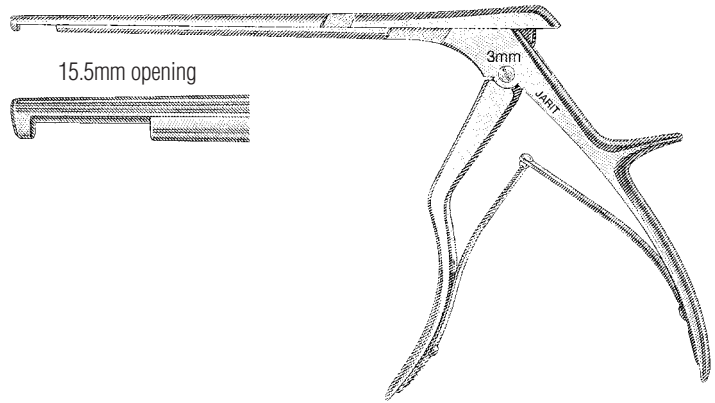
LOVE-KERRISON Rongeurs,
improved handle, 40° forward-angle

7" (17.8cm)	8" (20.3cm)	9" (22.9cm)	11" (28cm)	
280-219	280-239	281-239	283-239	2mm bite
280-220	280-240	281-240	283-240	3mm bite
280-221	280-241	281-241	283-241	4mm bite
280-222	280-242	281-242	283-242	5mm bite
280-223	280-243	281-243	283-243	6mm bite



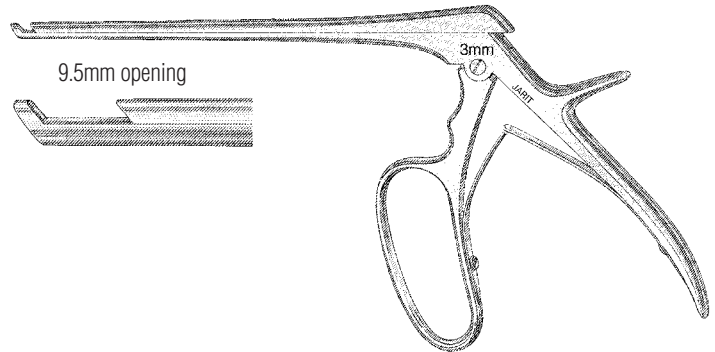
LOVE-KERRISON Rongeurs,
improved handle, 8" (20.3cm) shaft,
90° down-bite

- 280-234** 2mm bite
- 280-235** 3mm bite
- 280-236** 4mm bite
- 280-237** 5mm bite
- 280-238** 6mm bite



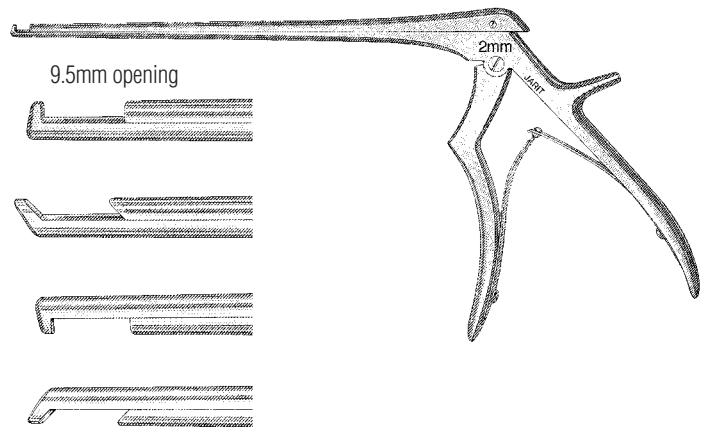
JARIT LAMINECTOMY Rongeurs,
40° forward-angle

- | | | |
|-----------------|----------------|----------|
| 6 7/8" (17.5cm) | 8" (20.3cm) | |
| 280-286 | 280-290 | 3mm bite |
| 280-288 | 280-292 | 5mm bite |

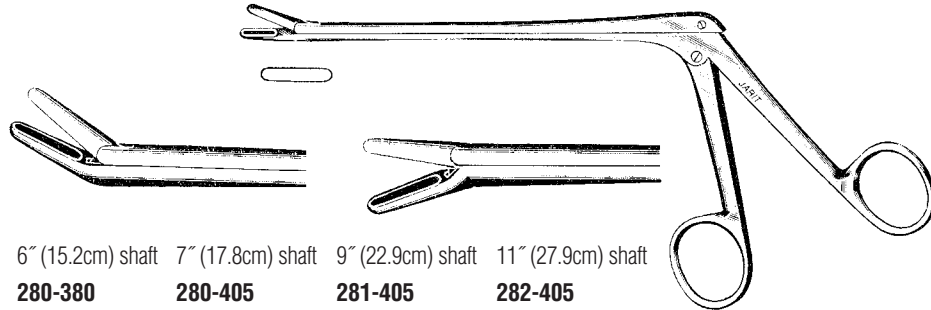


JARIT Sella Punches,
7" (17.8cm) shaft, 2mm bite

- 280-295** 90° up-bite
- 280-296** 40° up-bite
- 280-297** 90° down-bite
- 280-298** 40° down-bite

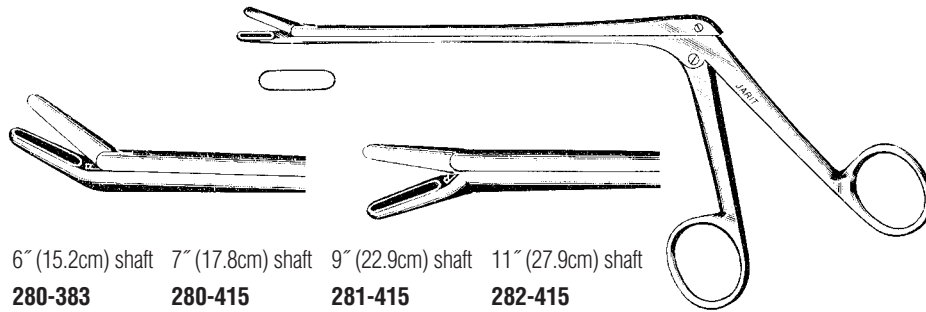


JAYL INTERVERTEBRAL DISC RONGEURS



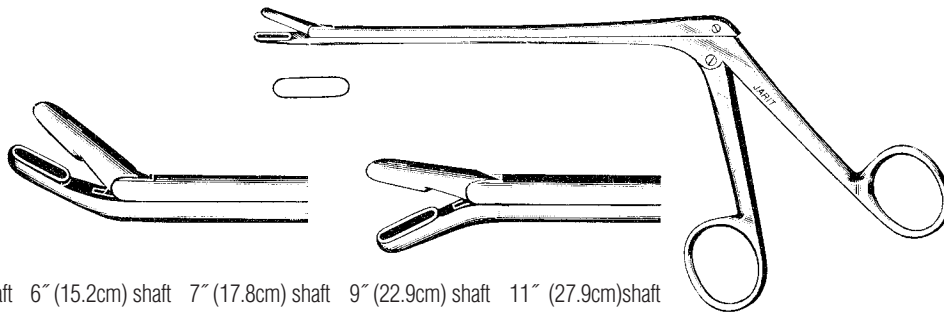
CUSHING Pituitary Rongeurs,
2 x 10mm bite

	5" (12.7cm) shaft	6" (15.2cm) shaft	7" (17.8cm) shaft	9" (22.9cm) shaft	11" (27.9cm) shaft
Straight	280-400	280-380	280-405	281-405	282-405
Up-angled	280-401	280-381	280-406	281-406	282-406
Down-angled	280-402	280-382	280-407	281-407	282-407



LOVE-GRUENWALD
Pituitary Rongeurs,
3 x 10mm bite

	5" (12.7cm) shaft	6" (15.2cm) shaft	7" (17.8cm) shaft	9" (22.9cm) shaft	11" (27.9cm) shaft
Straight	280-410	280-383	280-415	281-415	282-415
Up-angled	280-411	280-384	280-416	281-416	282-416
Down-angled	280-412	280-385	280-417	281-417	282-417

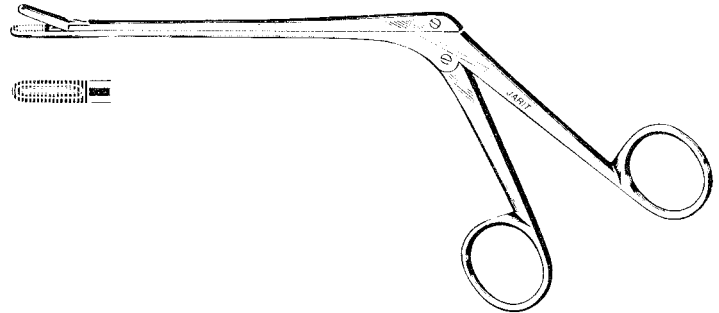


SPURLING Pituitary
Rongeurs,
4 x 10mm bite

	5" (12.7cm) shaft	6" (15.2cm) shaft	7" (17.8cm) shaft	9" (22.9cm) shaft	11" (27.9cm) shaft
Straight	280-420	280-386	280-425	281-425	282-425
Up-angled	280-421	280-387	280-426	281-426	282-426
Down-angled	280-422	280-388	280-427	281-427	282-427

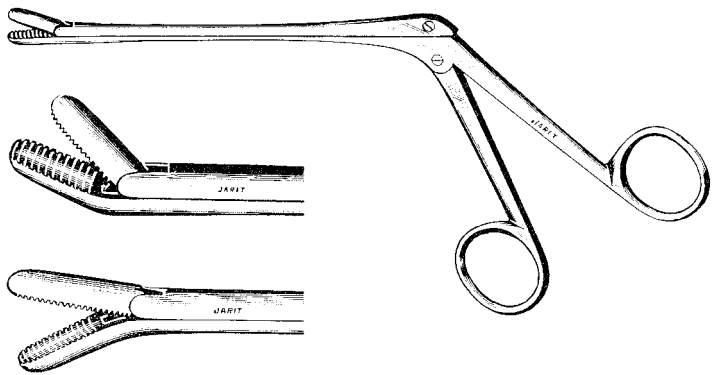


INTERVERTEBRAL DISC RONGEURS



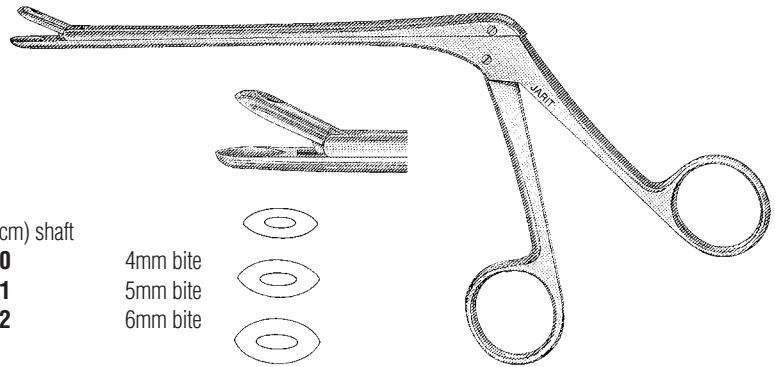
SCHLESINGER Rongeurs,
6" (15.2cm) shaft, serrated jaws

- 280-430** 2 x 10mm bite, straight
- 280-431** 3 x 10mm bite, straight
- 280-432** 4 x 10mm bite, straight



JARIT Rongeurs,
5" (12.7cm) shaft, serrated jaws,
6 x 10mm bite

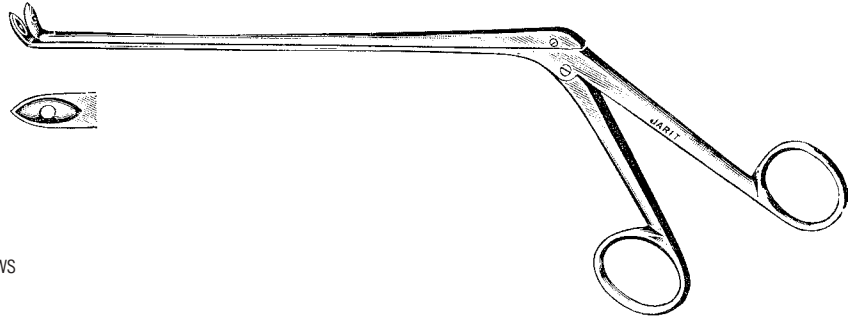
- 280-440** Straight
- 280-441** Up-angled
- 280-442** Down-angled



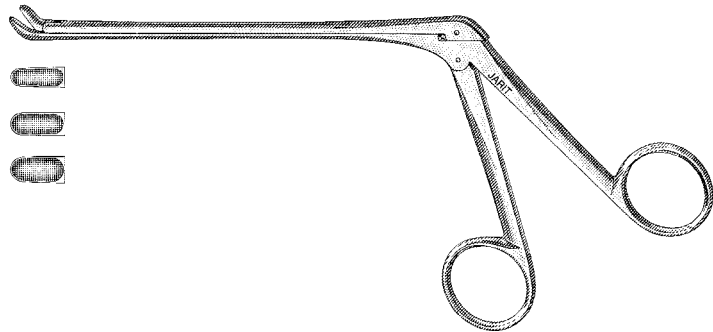
WILDE Rongeurs,
fenestrated jaws, straight

- | | | | |
|------------------|-------------------|-------------------|----------|
| 5½" (14cm) shaft | 7" (17.8cm) shaft | 9" (22.9cm) shaft | |
| 280-450 | 281-450 | 282-450 | 4mm bite |
| 280-451 | 281-451 | 282-451 | 5mm bite |
| 280-452 | 281-452 | 282-452 | 6mm bite |

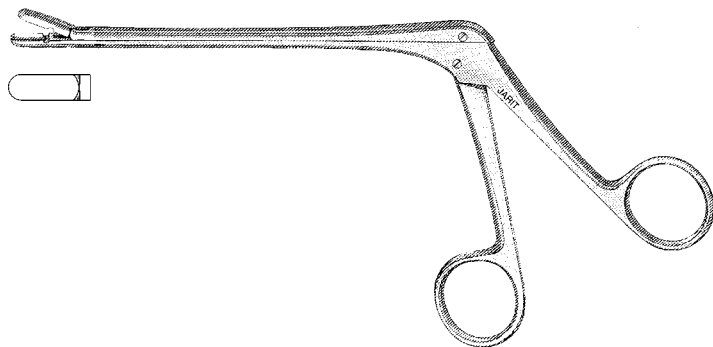
- 280-454** **WILDE** Rongeur,
fenestrated jaws, up-angled
4¼" (10.8cm) shaft, 5mm bite



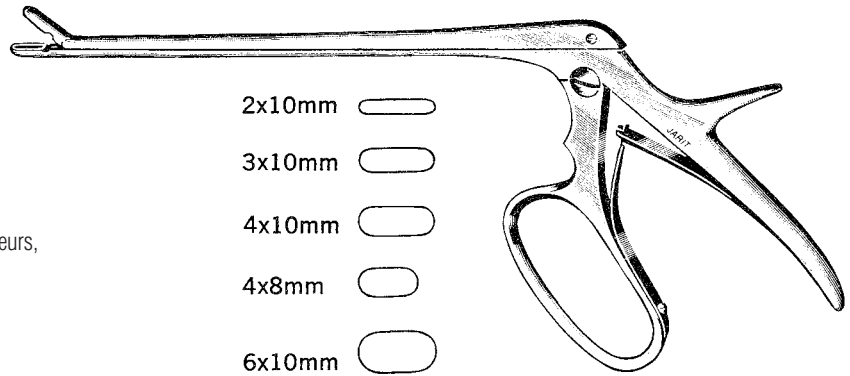
JACKSON Rongeur,
7" (17.8cm) shaft, fenestrated jaws
280-460 4 x 8mm bite, 70° up-angled



PEAPOD (Bead-Type) Forceps,
5½" (14cm) shaft, 45° up-angled
280-465 2.3 x 7mm bite
280-466 2.7 x 7mm bite
280-467 3.2 x 7mm bite



280-470 **TAKAHASHI** Rongeur,
5" (12.7cm) shaft, 4 x 10mm bite



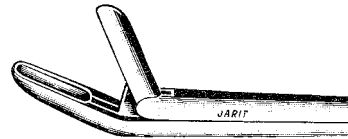
FERRIS-SMITH Cup Jaw Rongeurs,
7" (17.8cm) shaft, straight

- 280-500** 2 x 10mm bite
- 280-501** 3 x 10mm bite
- 280-502** 4 x 10mm bite
- 280-503** 4 x 8mm bite
- 280-504** 6 x 10mm bite
- 280-505** 6 x 12mm bite

- 2x10mm
- 3x10mm
- 4x10mm
- 4x8mm
- 6x10mm
- 6x12mm

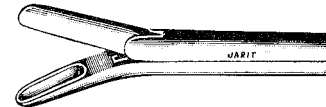
FERRIS-SMITH Cup Jaw Rongeurs,
7" (17.8cm) shaft, up-angled

- 280-510** 2 x 10mm bite
- 280-511** 3 x 10mm bite
- 280-512** 4 x 10mm bite
- 280-514** 6 x 10mm bite

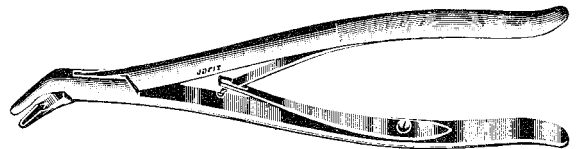


FERRIS-SMITH Cup Jaw Rongeurs,
7" (17.8cm) shaft, down-angled

- 280-515** 2 x 10mm bite
- 280-516** 3 x 10mm bite
- 280-517** 4 x 10mm bite



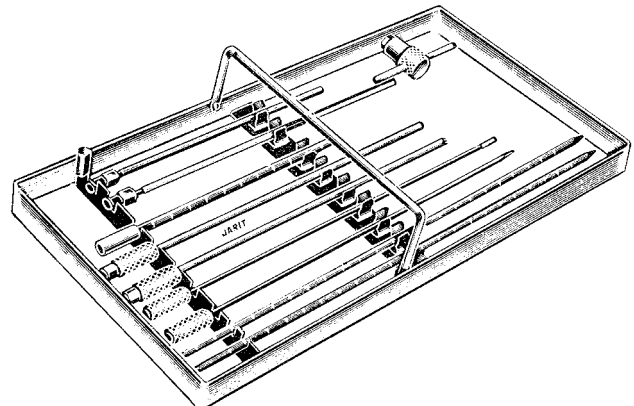
280-530 **STOOKEY** Cranial Rongeur,
7½" (19.1cm), 3mm bite



280-550 **CRAIG** Vertebral Biopsy Set

Includes:

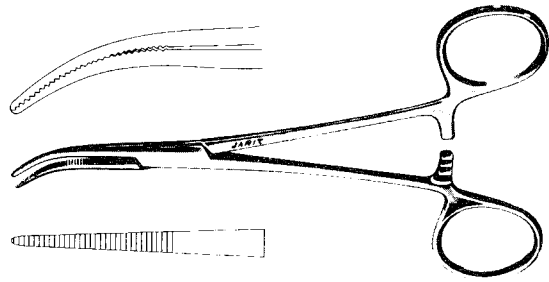
- 280-551** 1 Socket wrench
- 280-552** 1 Needle, 20 gauge
- 280-553** 1 Needle, 22 gauge
- 280-554** 1 Calibrated cannula
- 280-555** 2 Trephine cutters, with teeth
- 280-556** 1 Stylet pusher
- 280-557** 1 Twist hook
- 280-558** 2 Trocars, blunt, calibrated
- 280-559** 1 Sterilizing rack



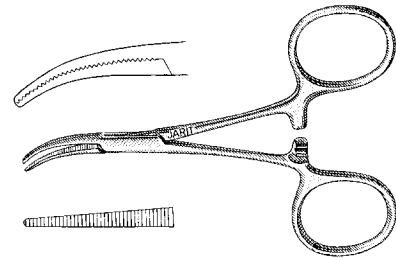


HEMOSTATS AND DRESSING FORCEPS

285-100 DANDY Scalp Forceps,
5½" (14cm), curved to side

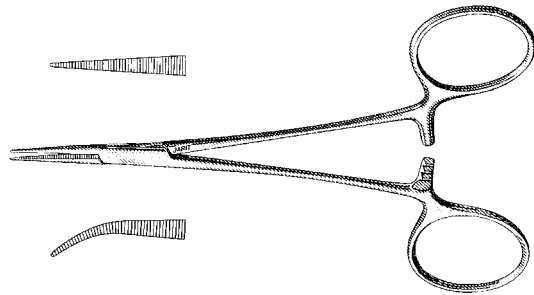


285-101 JARIT-DANDY Scalp Forceps,
4" (10.2cm), curved to side



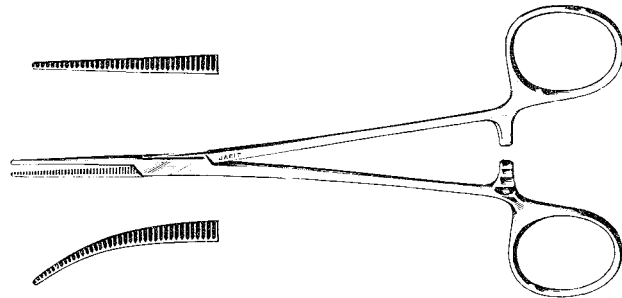
PETIT-POINT JACOBSON MOSQUITO Forceps,
5" (12.7cm)

- 105-088** Straight
- 105-089** Curved



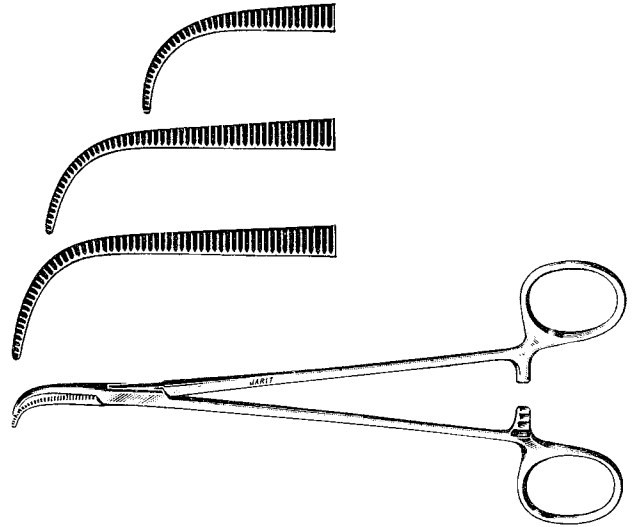
PETIT-POINT MOSQUITO Forceps,
6" (15.2cm)

- 105-098** Straight
- 105-099** Curved



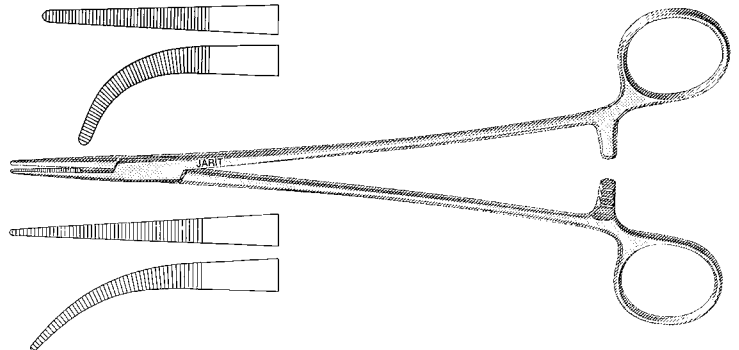
GEMINI Clamps

- 140-330** 7" (17.8cm)
- 140-331** 8" (20.3cm)
- 140-332** 9" (22.9cm)



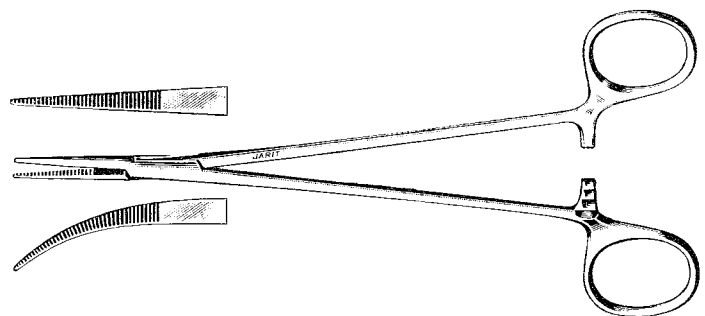
ADSON Hemostatic Forceps

- 285-103** 8½" (21.6cm), straight
- 285-104** 8½" (21.6cm), curved
- 285-105** 7½" (19cm), straight
- 285-106** 7½" (19cm), curved



PETIT-POINT Mosquito Forceps,
7½" (18.1cm)

- 285-107** Straight
- 285-108** Curved

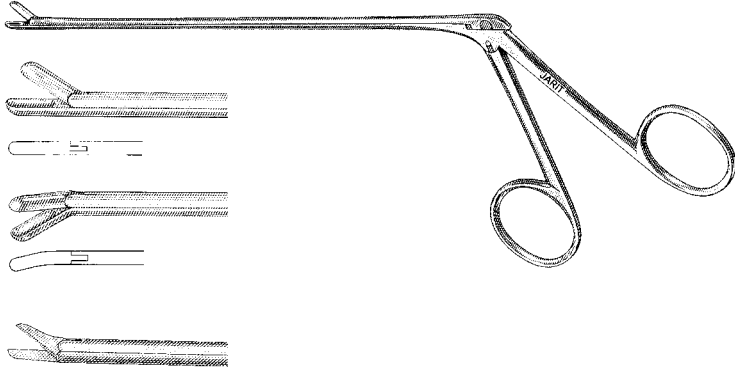


DECKER Microsurgical Rongeurs,
2mm x 6mm cup

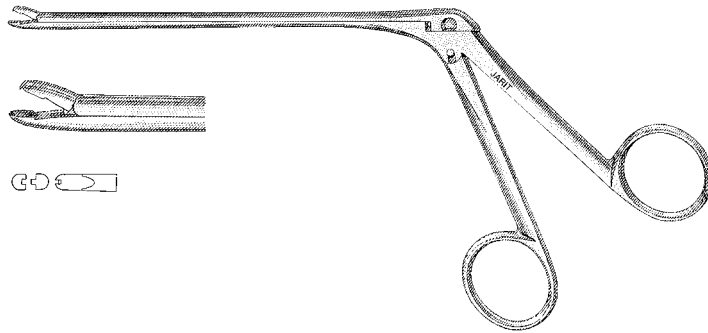
285-110 6" (15.2cm), straight

285-111 6" (15.2cm), curved left

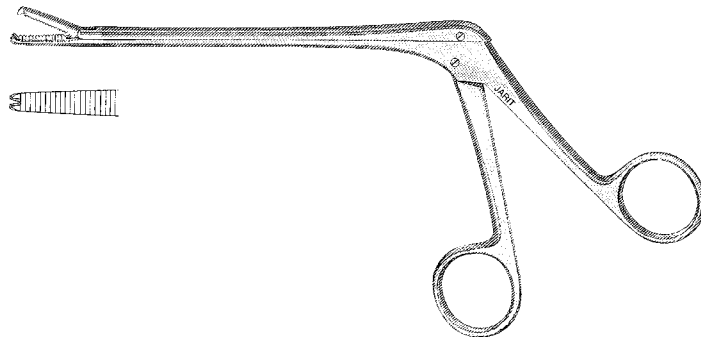
285-112 **DECKER** Microsurgical Scissors,
5½" (14cm), straight



285-114 **WILLIAMS**-Type Discectomy Forceps,
5½" (14cm), 1mm bite



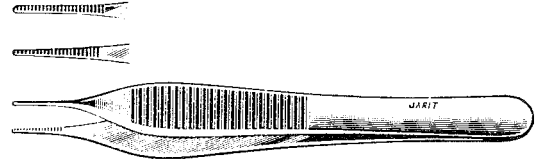
285-115 **HOEN** Alligator Forceps,
5½" (14cm), serrated jaws, 1 x 2 teeth



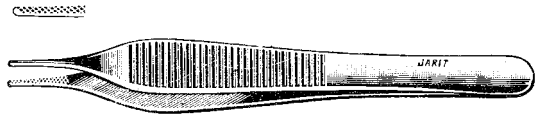
ADSON Dressing Forceps,
serrated

130-230 4 3/4" (12.1cm)

130-231 4 3/4" (12.1cm), extra delicate, 0.8mm wide tip



130-232 **ADSON** Dressing Forceps,
4 3/4" (12.1cm), cross serrated tip



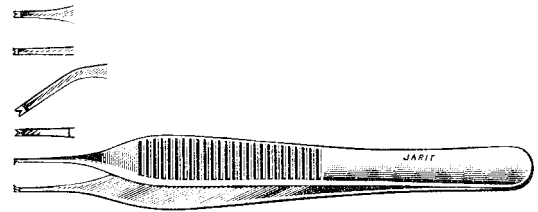
ADSON Tissue Forceps,
1 x 2 teeth

130-234 4 3/4" (12.1cm)

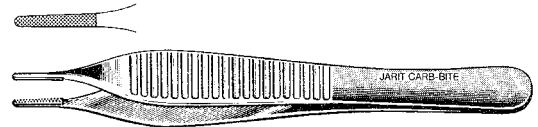
130-235 4 3/4" (12.1cm), extra delicate, 0.8mm wide tip

130-237 4 3/4" (12.1cm), angled

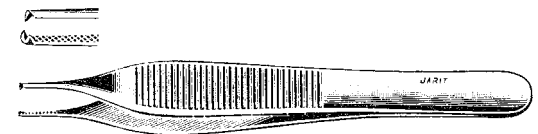
130-238 4 3/4" (12.1cm), with tying platform



130-236 **ADSON** Tissue Forceps,
4 3/4" (12.1cm), CARB-BITE tips



130-245 **ADSON** Tissue Forceps,
4 3/4" (12.1cm), 1 x 2 teeth, serrated



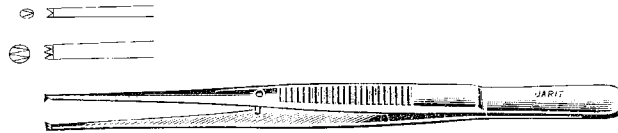
SEMKEN Dressing Forceps,
serrated

- 130-275** 4 3/4" (12.1cm)
- 130-276** 6" (15.2cm)



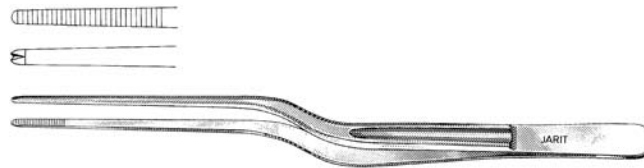
SEMKEN Tissue Forceps

- 130-280** 4 3/4" (12.1cm), 1 x 2 teeth
- 130-281** 6" (15.2cm), 1 x 2 teeth
- 130-282** 4 3/4" (12.1cm), 2 x 3 teeth



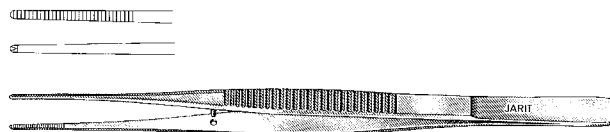
HOEN Bayonet Forceps,
7 3/4" (19.7cm)

- 285-116** Serrated
- 285-117** 1 x 2 teeth



JARIT Brain Forceps,
7" (17.8cm), delicate

- 285-118** Serrated
- 285-119** 1 x 2 teeth



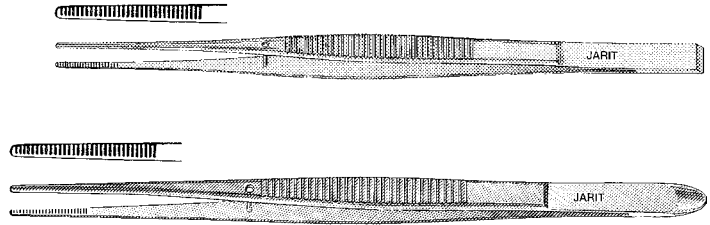


DRESSING AND TISSUE FORCEPS

CUSHING Dressing Forceps,
straight, serrated, scraper end

130-400 7" (17.8cm)

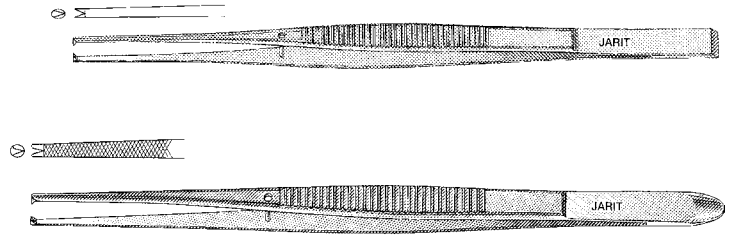
130-445 8" (20.3cm)



CUSHING Tissue Forceps,
straight, 1 x 2 teeth, scraper end

130-405 7" (17.8cm)

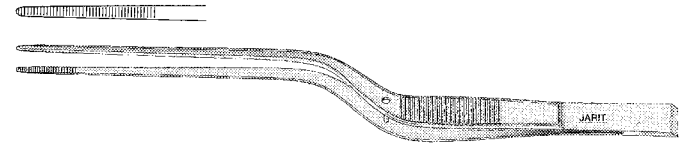
130-446 8" (20.3cm), cross serrated



CUSHING Dressing Forceps,
bayonet, serrated, scraper end

130-410 7 1/4" (18.4cm)

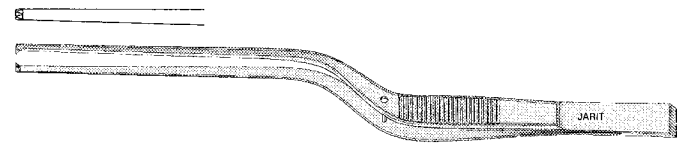
130-420 7 3/4" (19.7cm)



CUSHING Tissue Forceps,
bayonet, 1 x 2 teeth, scraper end

130-415 7 1/4" (18.4cm)

130-421 7 3/4" (19.7cm)



CUSHING Tissue Forceps,
Gutsch handle, straight, scraper end

130-425 7" (17.8cm), serrated

130-430 7" (17.8cm), 1 x 2 teeth

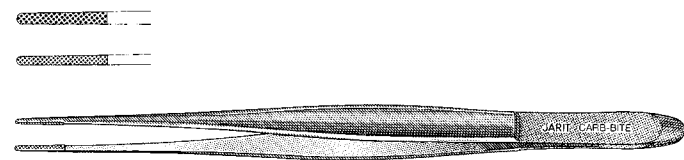
130-435 7" (17.8cm), 1 x 2 teeth, serrated



CUSHING Needle Forceps,
straight, CARB-BITE tips,
Gutsch handle, scraper end

122-530 7" (17.8cm)

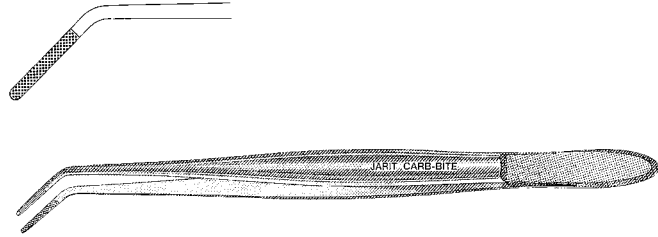
122-535 7" (17.8cm), delicate



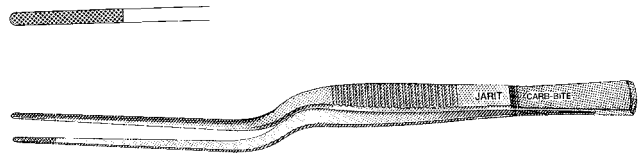


DRESSING AND TISSUE FORCEPS

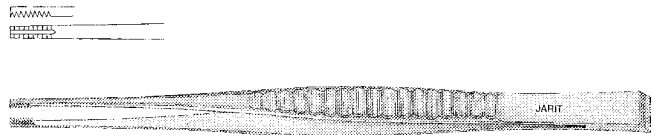
130-417 CUSHING Tissue Forceps,
7" (17.8cm), angled,
CARB-BITE tips, Gutsch handle, scraper end



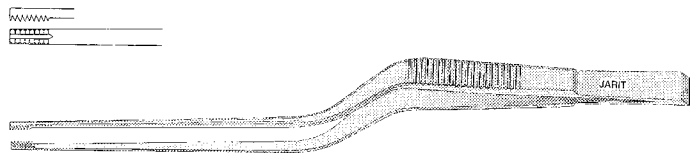
130-418 CUSHING Tissue Forceps,
7 1/4" (19.7cm), bayonet,
CARB-BITE tips, scraper end



130-440 CUSHING-BROWN Tissue Forceps,
7" (17.8cm), straight, double row
of 9 x 9 delicate teeth, scraper end



130-442 CUSHING-BROWN Tissue Forceps,
7 1/4" (18.4cm), bayonet, double row
of 9 x 9 delicate teeth, scraper end

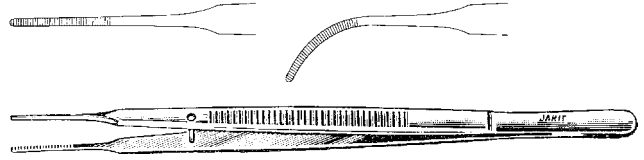




DRESSING, TISSUE AND HYPOPHYSEAL FORCEPS

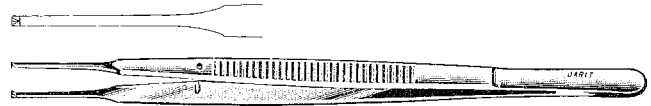
GERALD Dressing Forceps,
narrow tips, serrated

- 285-120 7" (17.8cm), straight
- 285-121 7" (17.8cm), curved
- 285-122 7½" (19cm), bayonet
- 285-128 9¼" (23.5cm), straight



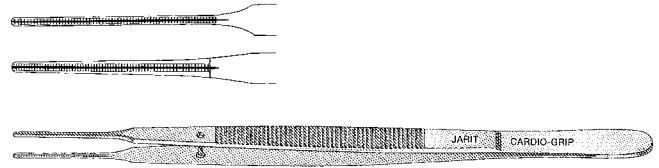
GERALD Tissue Forceps,
narrow tips, 1 x 2 teeth

- 285-125 7" (17.8cm), straight
- 285-127 7½" (19cm), bayonet
- 285-129 9¼" (23.5cm), straight

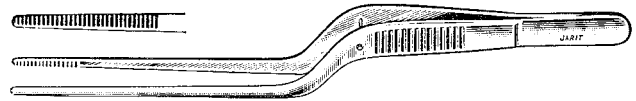


GERALD Tissue Forceps,
CARDIO-GRIP serrations, narrow tips

- 285-126 7" (17.8cm)
- 285-130 9½" (24.1cm)

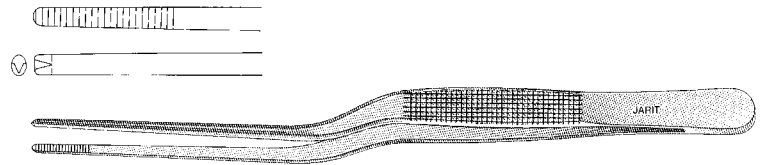


- 285-140 **ADSON Dressing Forceps,**
7¾" (19.7cm), bayonet



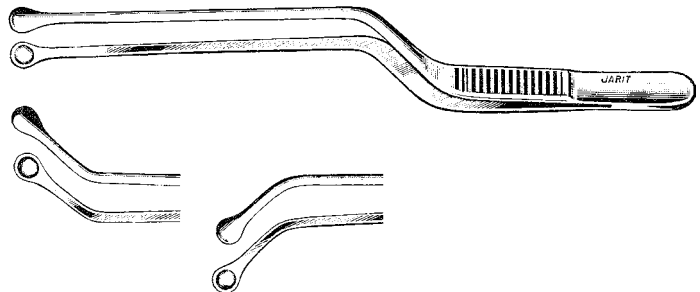
D'ERRICO Dressing Forceps,
8¾" (22.2cm), bayonet

- 285-147 Serrated
- 285-148 1 x 2 teeth



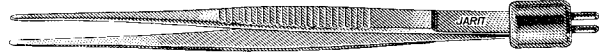
ADSON Hypophyseal Forceps,
9" (22.9cm), 6mm round cup

- 285-170 Straight
- 285-171 Curved up
- 285-172 Curved down

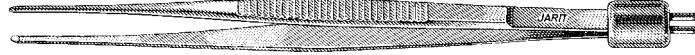


JARIT BIPOLAR COAGULATION FORCEPS

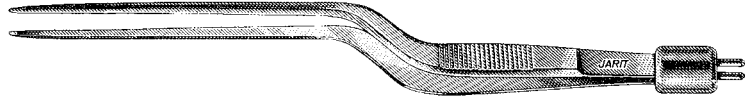
285-185 SEMKEN Bipolar Forceps,
6" (15.2cm), 1.8mm tip,
straight, insulated



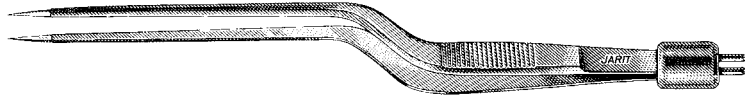
285-186 CUSHING Bipolar Forceps,
7 1/4" (18.4cm), 1.5mm tip,
straight, insulated



285-187 CUSHING Bipolar Forceps,
7 1/4" (18.4cm), 2.2mm tip,
bayonet shaped, insulated



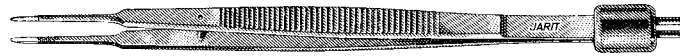
285-188 CUSHING Bipolar Forceps,
7 1/4" (18.4cm), 0.8mm micro-tip,
bayonet shaped, insulated



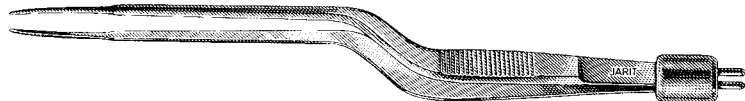
285-189 JACOBSON Bipolar Forceps,
6 1/4" (15.9cm), 0.8mm micro-tip,
bayonet shaped, insulated



285-190 GERALD Bipolar Forceps,
7 1/4" (18.4cm), 1mm fine tip,
straight, insulated



285-191 GERALD Bipolar Forceps,
7 1/4" (18.4cm), 0.8mm fine tip,
bayonet shaped, insulated



285-192 CUSHING Bipolar Forceps,
6" (15.2cm), 1.3mm tip,
bayonet shaped, insulated



285-193 JEWELER-Type Forceps,
4" (10.2cm), 0.5mm fine tip,
insulated



IMPORTANT: When disconnecting electrosurgical cables from the generator or instrument, always grasp the cables by the connector only. Never pull the cable by the cord. Do not use instruments or cables if the insulation is not fully intact.



285-199 BIPOLAR Cable

All Forceps listed above are available without insulation



NERVE AND DURA HOOKS

285-200 FRAZIER Dura Hook,
5" (12.7cm), sharp



285-202 JARIT Dura Hook,
6½" (16.5cm), sharp



285-205 CUSHING Dura Hook,
5½" (14cm), sharp



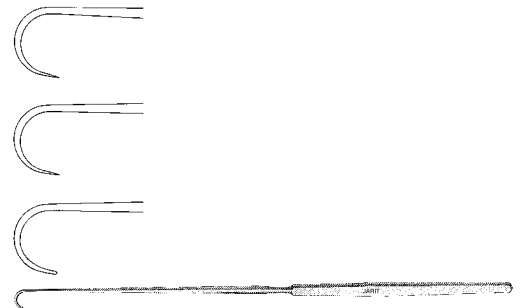
285-210 LAHEY Clinic Dura Hook,
5½" (14cm), sharp



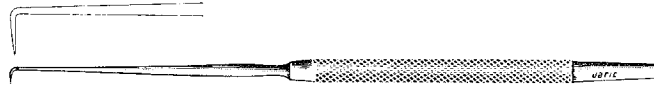
285-215 GRAHAM Dura Hook,
6½" (16.5cm), blunt



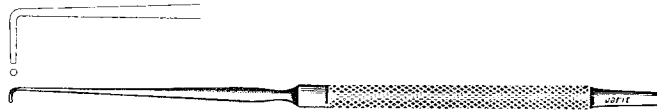
SACHS Dura Hooks
285-219 6" (15.2cm), sharp
285-220 8½" (21.6cm), sharp
285-221 8½" (21.6cm), blunt



285-225 **ADSON** Dura Hook,
8" (20.3cm), sharp



285-227 **ADSON** Dura Hook,
8" (20.3cm), blunt



285-230 **DANDY** Nerve Hook,
9" (22.9cm), blunt

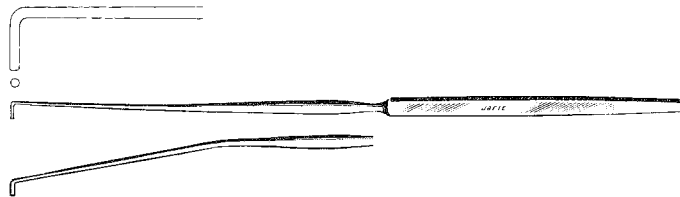


285-233 **CUSHING** Gasserian Ganglion Hook,
9" (22.9cm), blunt



HOEN Nerve Hooks,
9" (22.9cm), blunt

285-235 Straight
285-236 Angled



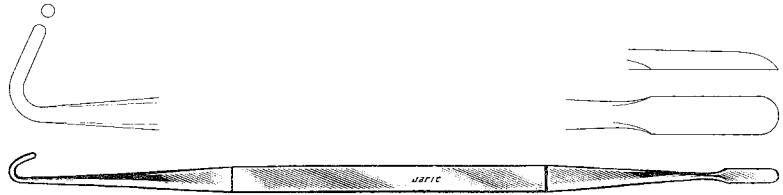
285-240 **STRULLY** Dura Twist Hook,
6 1/4" (15.9cm)



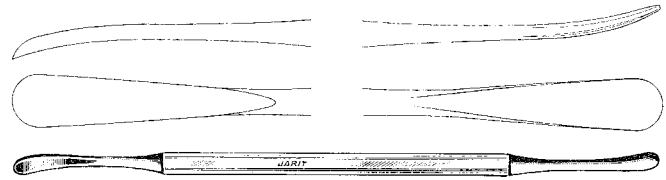


DURA HOOKS, DISSECTORS AND SEPARATORS

285-315 SMITHWICK Sympathectomy Hook and Dissector, 12¼" (31.1cm)



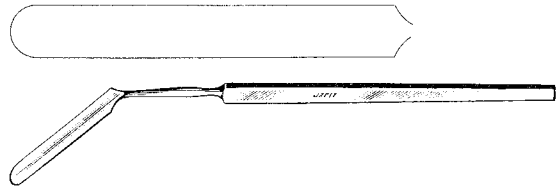
285-318 DISSECTOR,
8¾" (22.2cm), sharp end,
blunt blades 6mm wide



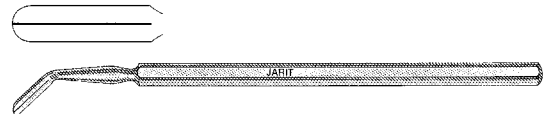
285-320 FRAZIER Dura Separator,
6½" (16.5cm)



285-325 HORSLEY Dura Separator,
7¼" (18.4cm)



285-327 DORSEY Dura Separator,
6" (15.2cm), grooved blade



HOEN Dura Separators,
6" (15.2cm)

285-330 45° angle

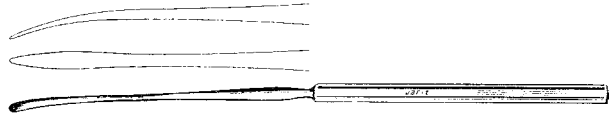
285-331 90° angle



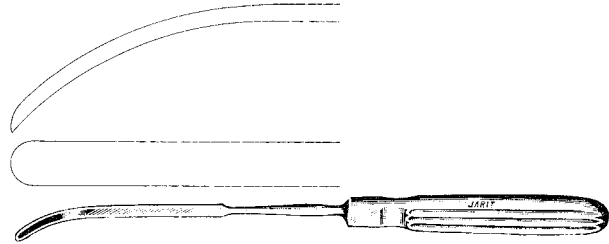


ELEVATORS, DISSECTORS AND SEPARATORS

285-340 SACHS Nerve Separator,
7 $\frac{1}{4}$ " (19.7cm)



285-342 SACHS Dural Separator,
8 $\frac{1}{4}$ " (22.2cm)



JARIT Periosteal Elevators,
6 $\frac{1}{2}$ " (16.5cm), curved blade 5mm wide

285-345 Blunt

285-346 Semi-sharp



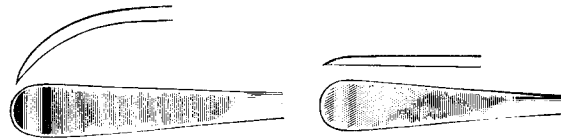
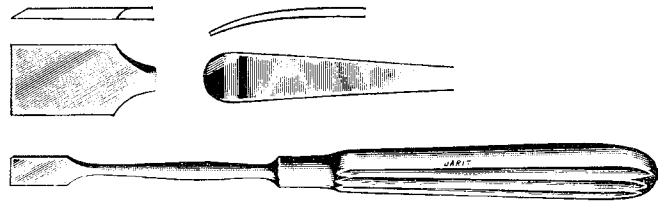
ADSON Periosteal Elevators,
6 $\frac{1}{2}$ " (17.1cm)

285-350 Straight, chisel edge

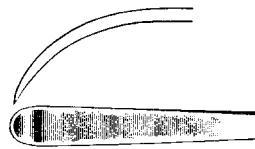
285-351 Curved, blunt

285-352 Curved, semi-sharp

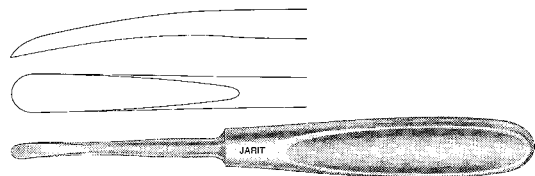
285-353 Straight, semi-sharp



285-355 LOVE-ADSON Periosteal Elevator,
6 $\frac{1}{2}$ " (16.5cm), curved, semi-sharp



285-357 OLDBERG Dissector,
7" (17.8cm)



HOEN Periosteal Elevators

- 285-360** 7¼" (18.4cm), 7mm wide blade
- 285-361** 7½" (19.1cm), 15mm wide blade
- 285-362** 7½" (19.1cm), 20mm wide blade



- 285-365** **PENFIELD** Dissector
No. 1: 7" (17.8cm),
broad curved dissector,
sharp round spoon



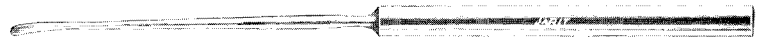
- 285-366** **PENFIELD** Dissector
No. 2: 7¼" (18.4cm),
slightly curved dissector,
wax packer



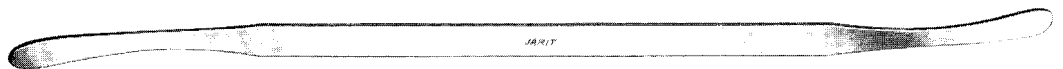
- 285-367** **PENFIELD** Dissector
No. 3: 7¼" (18.4cm),
full curved dissector,
wax packer



- 285-368** **PENFIELD** Dissector
No. 4: 8" (20.3cm),
slightly curved dissector, light

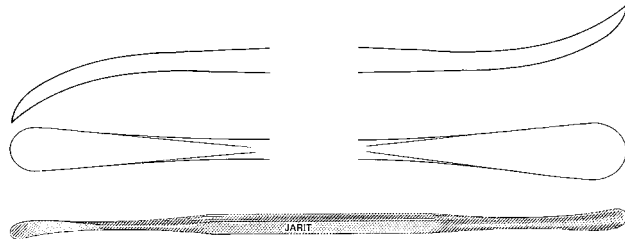


- 285-369** **PENFIELD** Dissector
No. 5: 11½" (29.2cm),
slightly curved dissector,
double ended, blunt



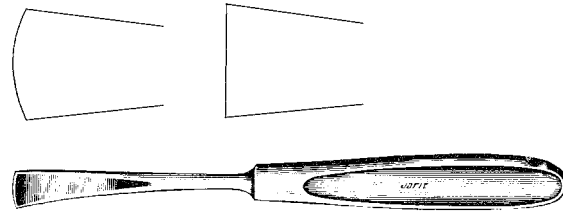
JARIT ELEVATORS AND DISSECTORS

285-370 ALDERDYCE Elevator and Dissector,
8½" (21.6cm)



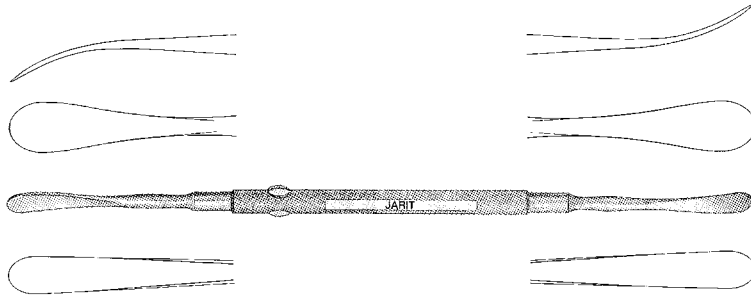
CUSHING Wide Sharp Elevators,
7½" (19.1cm)

285-375 Convex edge
285-376 Square edge



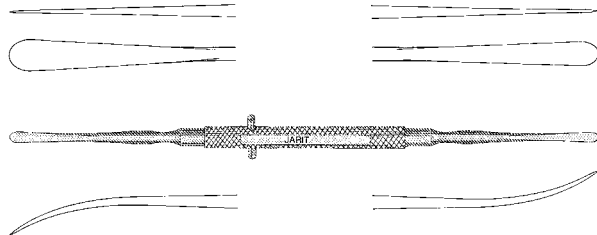
FREER Double-ended Elevators,
7¼" (19.7cm) sharp-blunt blades

285-379 6.5mm wide blades
285-380 4.5mm wide blades

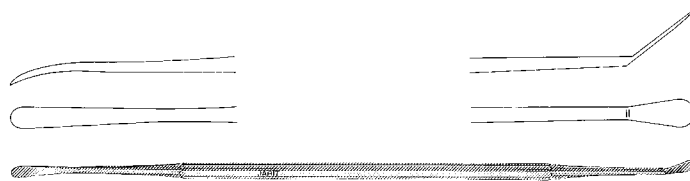


PRESBYTERIAN Hospital Double-ended Elevators,
7¼" (18.4cm), 3.3mm wide blades, blunt

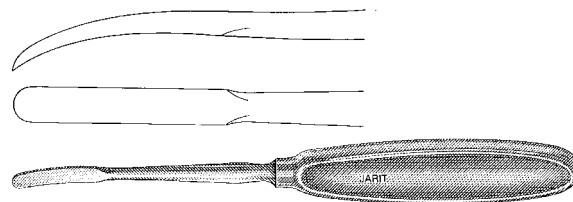
285-381 Straight
285-382 Curved

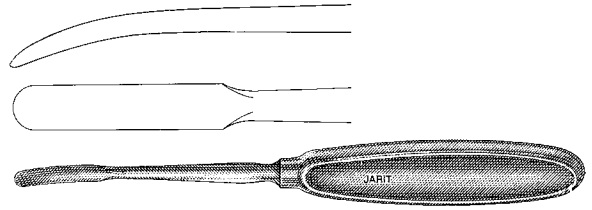
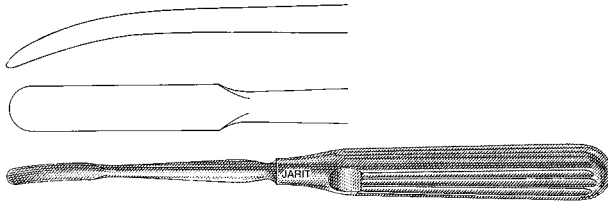


285-383 CRILE Ganglion Knife and Dissector,
8½" (21.6cm), double-ended



285-384 CUSHING Periosteal Elevator,
7" (19.4cm), 5mm wide blade, sharp

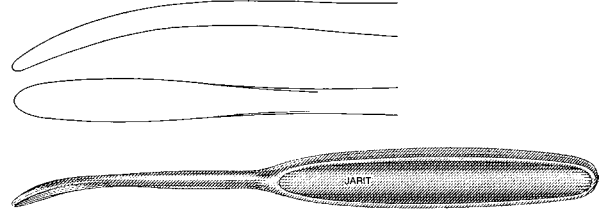
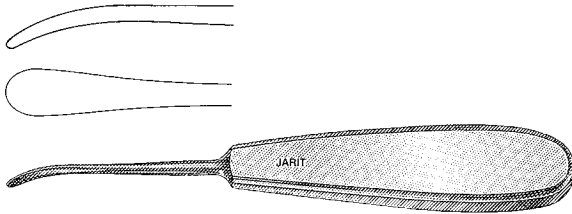




CUSHING Staphylorrhaphy Elevators,
6mm wide blade

285-385 8½" (20.5cm), grooved handle

285-386 7½" (19cm), Gutsch handle

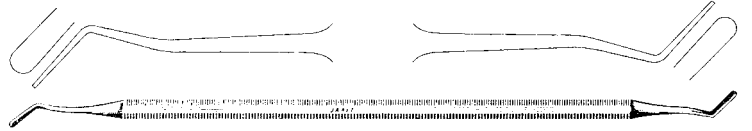


CUSHING "Little Joker" Periosteal Elevators,
6mm wide blade

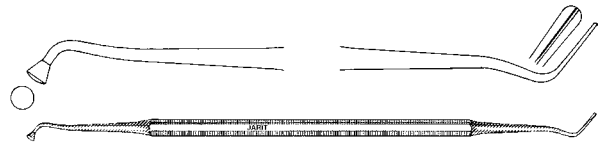
285-388 6" (15.2cm), hollow handle

285-389 7½" (19cm), solid handle

285-390 **WOODSON** Elevator and Spatula,
10" (25.4cm)



285-391 **WOODSON** Dura Separator and Packer,
7" (17.8cm)

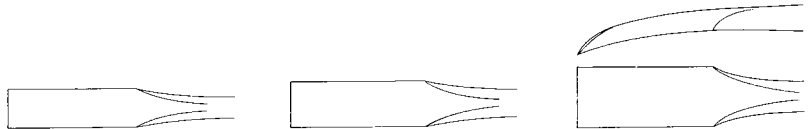


JARIT Periosteal Elevators,
8" (20.3cm), Gutsch handle

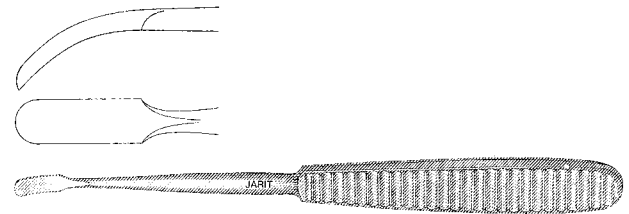
285-394 5mm wide blade, sharp

285-395 6.4mm wide blade, sharp

285-396 8mm wide blade, sharp



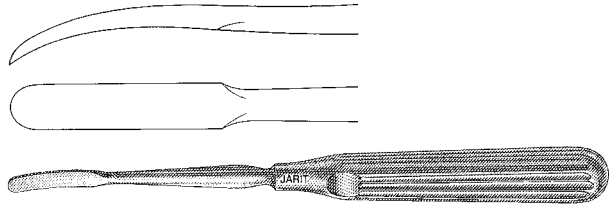
285-397 **JARIT** Periosteal Elevator,
8" (20.3cm), 5mm wide blade, sharp



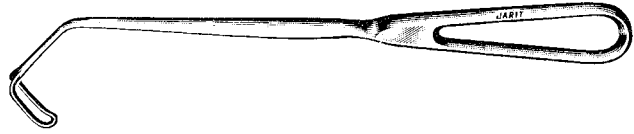


NERVE AND VEIN RETRACTORS

285-398 CUSHING Periosteal Elevator,
8" (20.3cm), 6mm wide blade, sharp



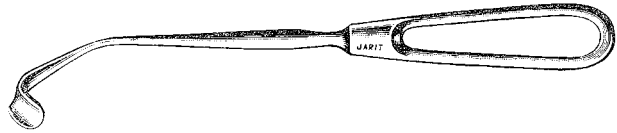
285-405 CUSHING Decompression Retractor,
8 1/2" (21.6cm), 10mm wide blade



SACHS Vein Retractors,
8 1/2" (21.6cm), angled

285-411 Smooth, 11mm wide blade

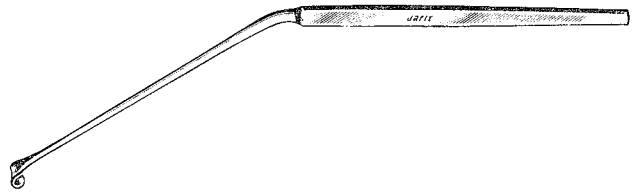
285-412 Toothed, 17mm wide blade



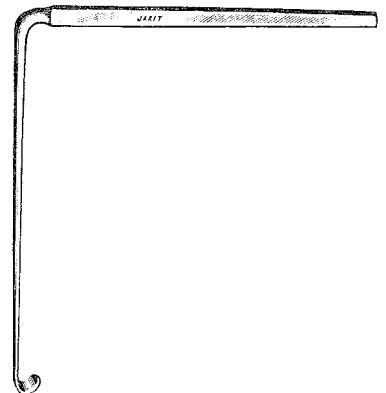
285-420 LOVE Nerve Root Retractor,
7 3/4" (19.7cm), straight,
7mm wide blade



285-421 LOVE Nerve Root Retractor,
7 3/4" (19.7cm), 45° angle,
7mm wide blade

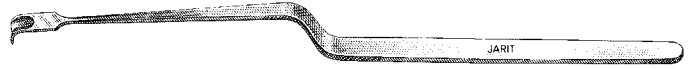


285-422 LOVE Nerve Root Retractor,
7 3/4" (19.7cm), 90° angle,
7mm wide blade

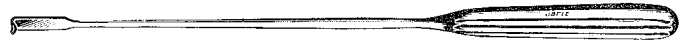


JARIT NERVE RETRACTORS

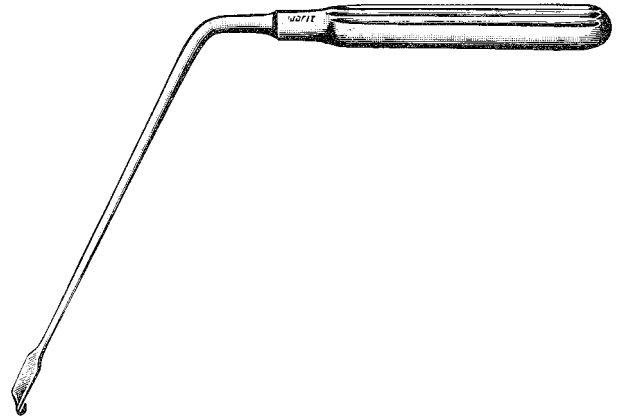
285-425 D'ERRICO Nerve Root Retractor,
9" (22.9cm), 6mm wide blade



285-430 SCOVILLE Nerve Root Retractor,
9 1/2" (23.5cm), straight, 8mm wide blade



285-431 SCOVILLE Nerve Root Retractor,
8 1/2" (21.6cm), angular, 8mm wide blade



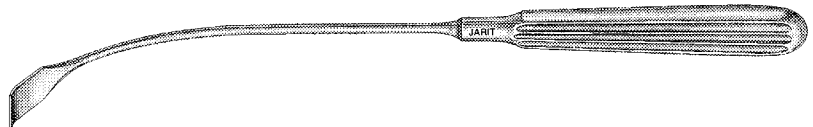
285-433 HOLSCHER Nerve Root Retractor,
9 1/2" (24.1cm), 6.4mm wide blade



285-434 HOLSCHER Nerve Root Retractor,
9 1/2" (24.1cm), 13mm wide blade



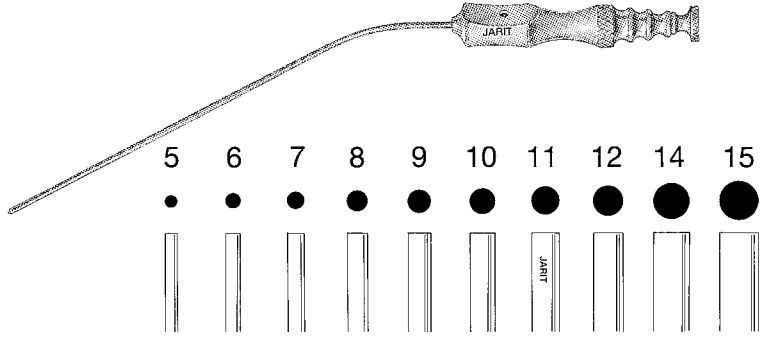
285-435 CAMPBELL Nerve Root Retractor,
8 3/4" (22.5cm), 10.5mm wide blade



JARIT BRAIN SUCTION TUBES

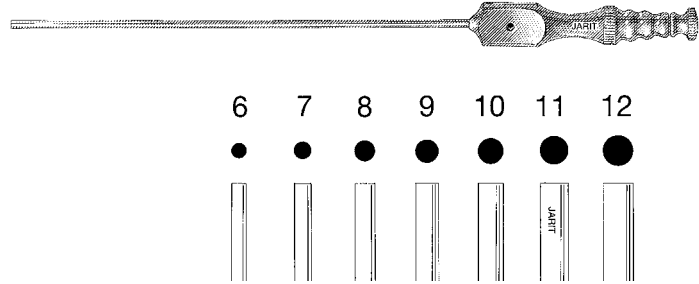
FRAZIER Suction Tubes,
7" (17.8cm), angular,
working length 4 1/4" (10.8cm)

285-449	5 French	285-454	10 French
285-450	6 French	285-455	11 French
285-451	7 French	285-456	12 French
285-452	8 French	285-457	14 French
285-453	9 French	285-458	15 French



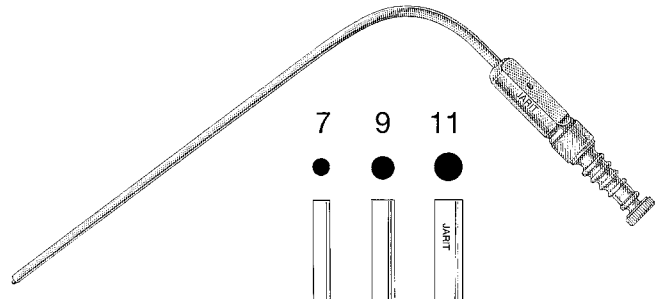
FRAZIER Suction Tubes,
straight

7" (17.8cm), working length 5 1/4" (13.3cm)	9" (22.9cm), working length 6 3/4" (17.1cm)		
285-460	6 French	285-470	6 French
285-461	7 French	285-471	7 French
285-462	8 French	285-472	8 French
285-463	9 French	285-473	9 French
285-464	10 French	285-474	10 French
285-465	11 French	285-475	11 French
285-466	12 French	285-476	12 French



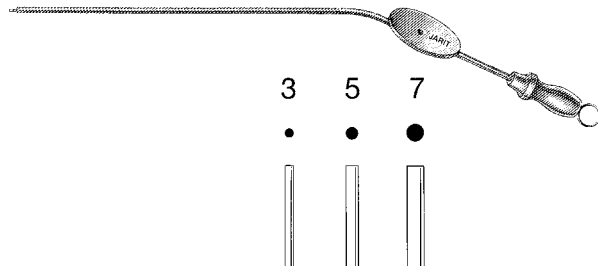
FRAZIER Suction Tubes,
7 1/2" (19.1cm), angular,
working length 6" (15.2cm)

285-477	7 French
285-478	9 French
285-479	11 French



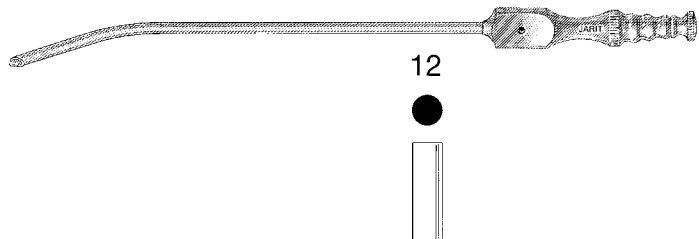
BARON Suction Tubes,
6 1/2" (16.5cm), angular,
working length 4" (10.2cm)

285-480	3 French
285-482	5 French
285-484	7 French



ADSON Suction Tubes,
12 French

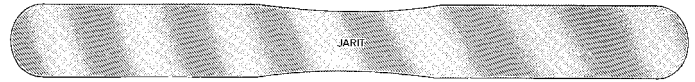
285-490	5" (12.7cm)
285-492	8" (20.3cm)



285-530 **CHILDRENS** Hospital Brain Spatula,
8½" (21.6cm), 14mm wide blade



285-531 **MAYFIELD** Brain Spatula,
8" (20.3cm), 22mm wide blade



SCOVILLE Brain Spatulas,
8" (20.3cm), double-ended

285-533 Small: 10 and 13mm wide blades
285-534 Large: 16 and 19mm wide blades



DAVIS Brain Spatulas,
7" (17.8cm), malleable, German silver

285-540 ¼" (6mm) wide
285-541 ⅜" (9mm) wide
285-542 ½" (13mm) wide
285-543 ⅝" (16mm) wide
285-544 ¾" (19mm) wide
285-545 1" (25mm) wide
285-546 1¼" (32mm) wide
285-547 1½" (38mm) wide



CUSHING Brain Spatulas,
double-ended

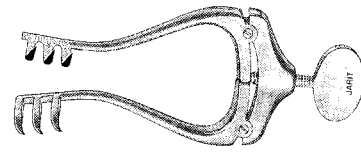
285-550 6¾" (17.1cm), 13 and 19mm wide blades
285-551 7¾" (19.7cm), 19 and 25mm wide blades



JAYT RETRACTORS

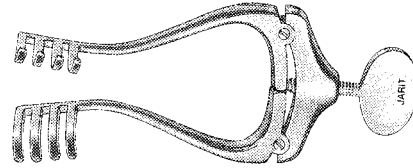
JANSEN Retractors,
4" (10.2cm)

- 290-100** 3 x 3 sharp prongs, 9mm deep
- 290-101** 3 x 3 blunt prongs, 9mm deep



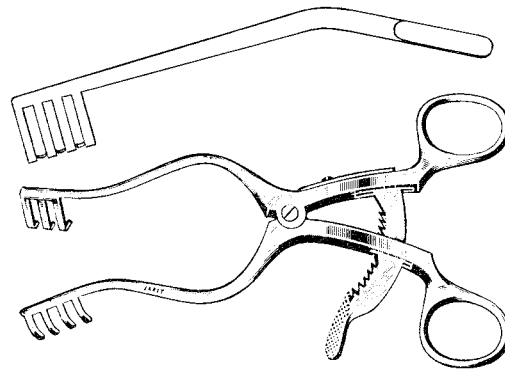
JANSEN Retractor,
4½" (11.4cm)

- 290-102** 4 x 4 blunt prongs, 22mm deep



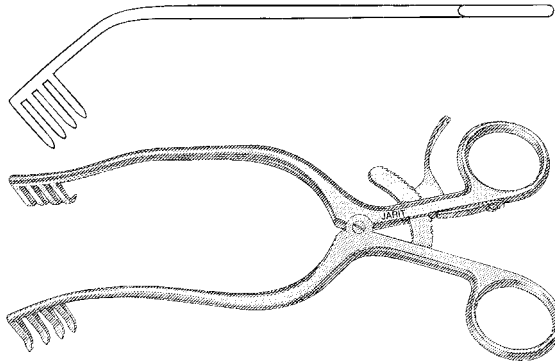
SCALP Retractor,
5½" (14cm), curved arms to fit contour of skull

- 290-120** 3 x 4 blunt prongs, 15mm deep



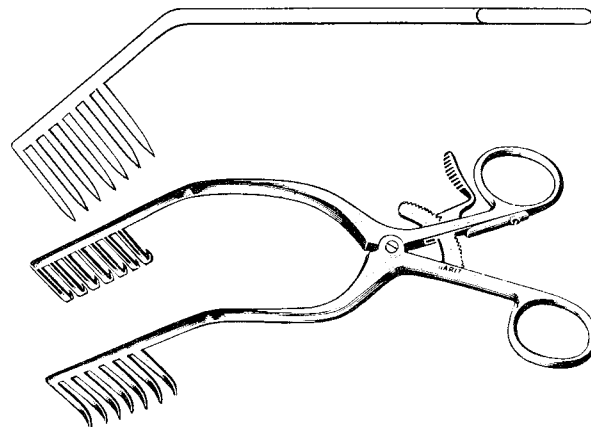
ANDERSON-ADSON Scalp Retractor,
7½" (19.7cm), angled arms

- 290-122** 4 x 4 sharp prongs, 16mm deep



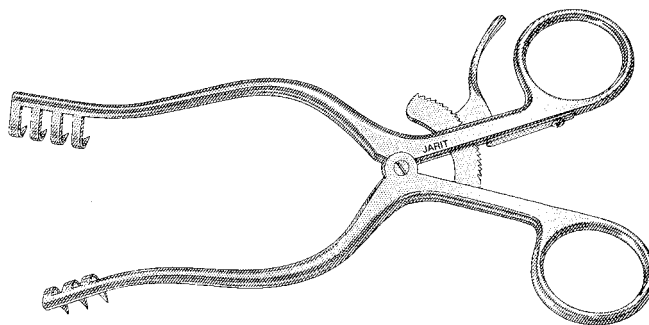
MISKIMON Cerebellar Retractor,
7½" (19.1cm), angled arms

- 290-125** 7 x 7 sharp prongs, 32mm deep



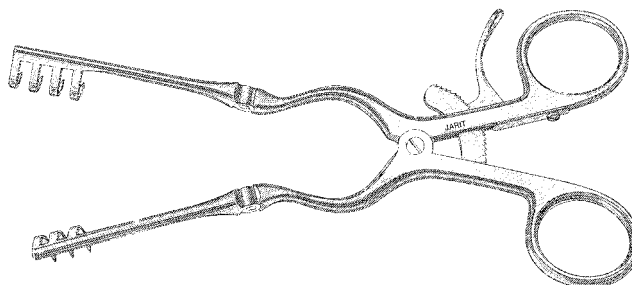
WEITLANER Retractors

- 205-140 4½" (11.4cm), 2 x 3 sharp prongs, 15mm deep
- 205-141 4½" (11.4cm), 2 x 3 blunt prongs, 15mm deep
- 205-150 5½" (14cm), 3 x 4 sharp prongs, 17mm deep
- 205-151 5½" (14cm), 3 x 4 blunt prongs, 17mm deep
- 205-155 6½" (16.5cm), 3 x 4 sharp prongs, 18mm deep
- 205-156 6½" (16.5cm), 3 x 4 blunt prongs, 18mm deep
- 205-160 8" (20.3cm), 3 x 4 sharp prongs, 20mm deep
- 205-161 8" (20.3cm), 3 x 4 blunt prongs, 20mm deep
- 205-165 9½" (24.1cm), 3 x 4 sharp prongs, 27mm deep
- 205-166 9½" (24.1cm), 3 x 4 blunt prongs, 27mm deep



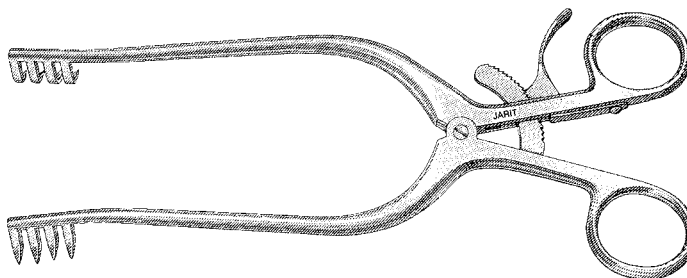
WEITLANER Retractors, hinged blades

- 205-175 5½" (14cm), 3 x 4 sharp prongs, 18mm deep
- 205-176 5½" (14cm), 3 x 4 blunt prongs, 18mm deep
- 205-180 6¼" (15.9cm), 3 x 4 sharp prongs, 18mm deep
- 205-181 6¼" (15.9cm), 3 x 4 blunt prongs, 18mm deep
- 205-190 8" (20.3cm), 3 x 4 sharp prongs, 20mm deep



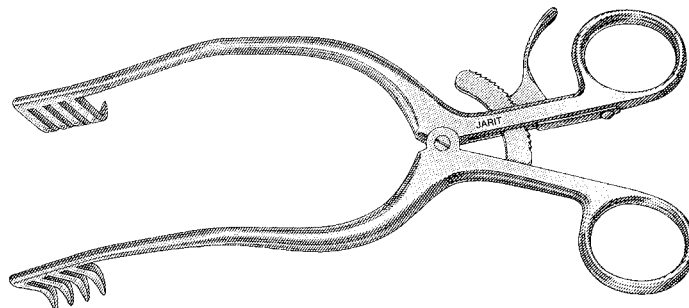
ADSON Cerebellar Retractors, 7½" (19.1cm)

- 205-200 4 x 4 sharp prongs, 22mm deep
- 205-201 4 x 4 blunt prongs, 22mm deep



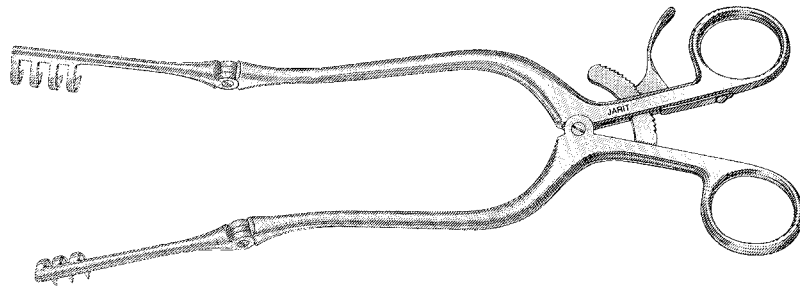
ADSON Cerebellar Retractor, 7¼" (18.4cm), angular

- 205-205 4 x 4 sharp prongs, 22mm deep
- 205-206 4 x 4 blunt prongs, 22mm deep



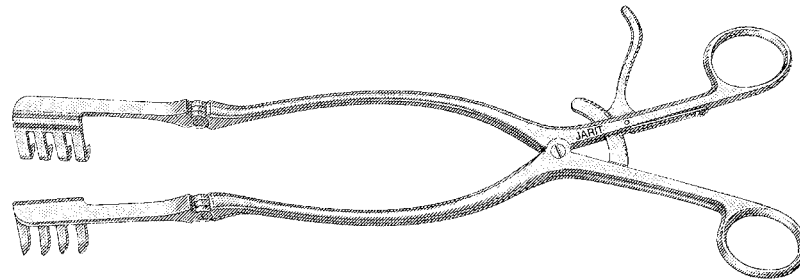
BECKMAN
Laminectomy Retractors

- 205-209** 9½" (24.1cm),
3 x 4 sharp prongs, 1½" deep (2.8cm)
- 205-210** 12½" (31.4cm),
4 x 4 sharp prongs, ¾" deep (1.6cm)



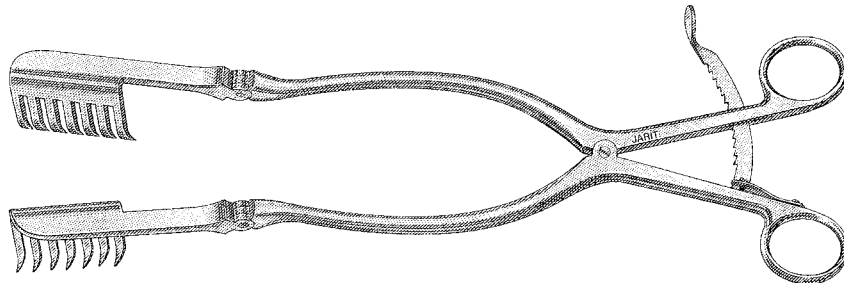
BECKMAN-ADSON
Laminectomy Retractors,
12" (30.5cm)

- 205-220** 4 x 4 sharp prongs,
1" x 1" deep (2.5 x 2.5cm)
- 205-221** 4 x 4 blunt prongs,
1" x 1" deep (2.5 x 2.5cm)
- 205-225** 4 x 4 sharp prongs,
1" x 1¼" deep (2.5 x 4.4cm)
- 205-226** 4 x 4 blunt prongs,
1" x 1¼" deep (2.5 x 4.4cm)



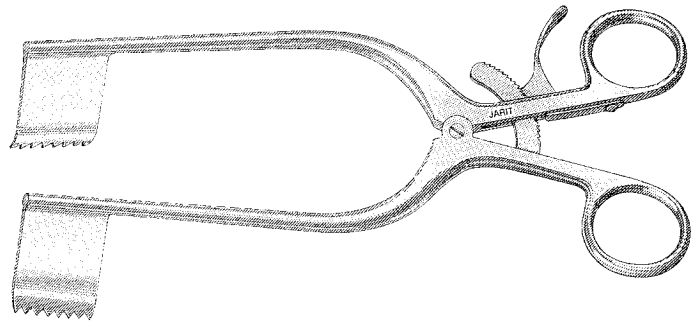
BECKMAN-EATON
Laminectomy Retractor,
12½" (31.8cm)

- 205-230** 7 x 7 sharp prongs,
1¼" x 1¼" deep (4.4 x 4.8cm)



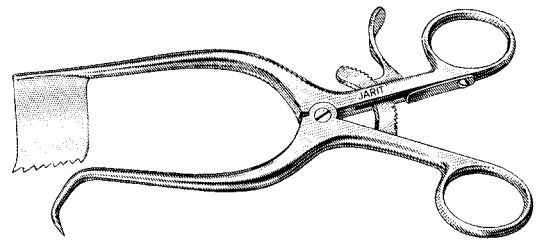
MEYERDING Laminectomy Retractors,
7½" (19.1cm)

- 205-240** Blades 1" x 1¼" deep (2.5 x 3.2cm)
- 205-242** Blades 1" x 2½" deep (2.5 x 5.4cm)
- 205-244** Blades ¾" x 2½" deep (1.9 x 6cm)
- 205-245** Blades 1" x 2½" deep (2.5 x 6cm)



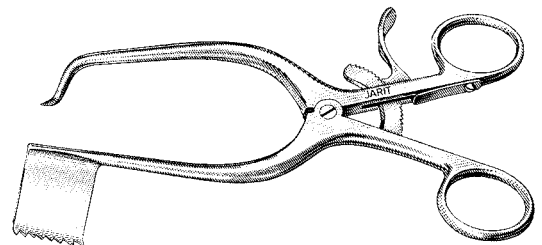
MARKHAM-MEYERDING Hemilaminectomy Retractor,
6¾" (17.1cm)

- 205-255** Blade 1" x 2½" deep (2.5 x 6.4cm), blade on right side

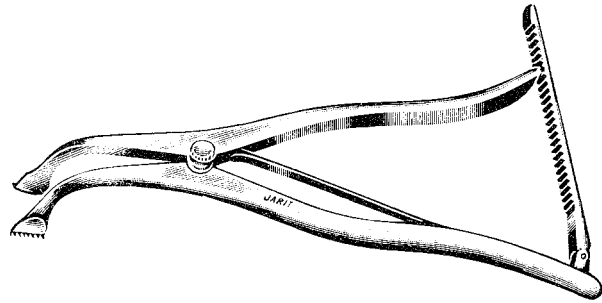


MARKHAM-MEYERDING Hemilaminectomy Retractor,
6¾" (17.1cm)

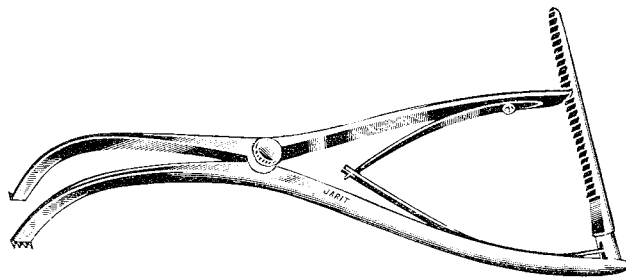
- 205-256** Blade 1" x 2½" deep (2.5 x 6.4cm), blade on left side



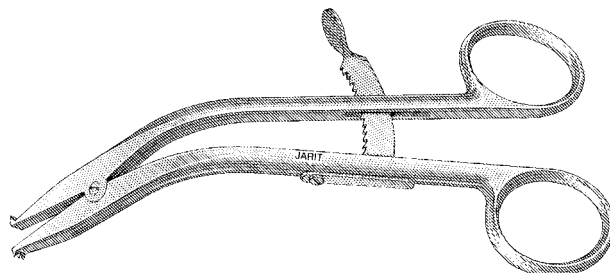
290-145 **JARIT** Lamina Spreader,
10½" (26.7cm), concave blades



INGE Lamina Spreaders
290-150 9½" (24.1cm), adult size
290-152 6½" (16.5cm), child size

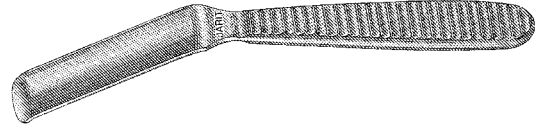


290-166 **JARIT** Cervical Spreader,
6¼" (15.9cm), improved model



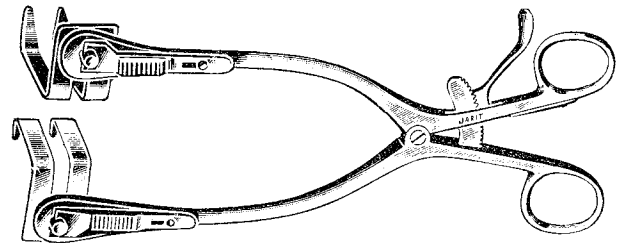
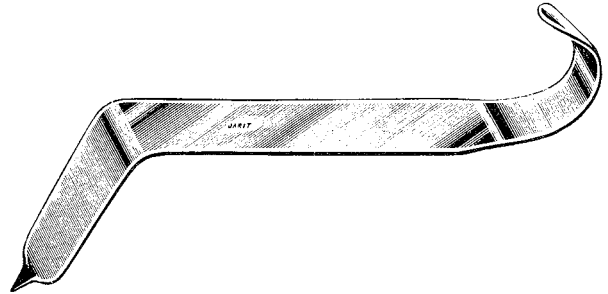
JARIT Blade Retractors,
3" (7.6cm) blade

- 290-175** 18mm wide
- 290-176** 20mm wide
- 290-177** 23mm wide

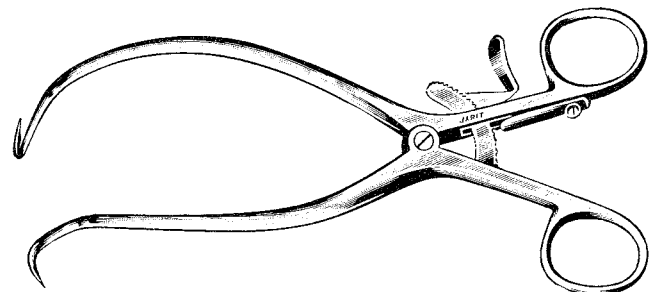


TAYLOR Spinal Retractors,
7½" (19.1cm)

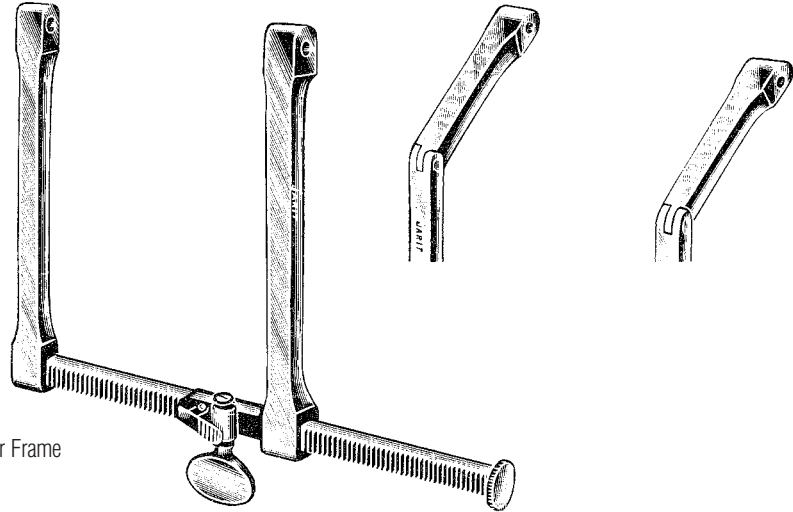
- 290-180** 1¼" x 3" blade (3.2 x 7.6cm)
- 290-181** 1¼" x 4" blade (3.2 x 10.1cm)



- 290-190** **HOERN** Hemilaminectomy Retractor,
10¼" (27.3cm), 2 pairs of blades



- 290-200** **SELETZ-GELPI** Laminectomy Retractor,
6¾" (16.8cm), arm length 2¼" (5.7cm) from bend

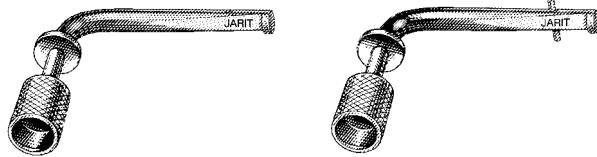


290-210 SCOVILLE Hemilaminectomy Retractor Frame
 Spread: 6 1/4" (17.1cm)
 Arm length: 5 1/2" (14cm)

290-220 HAVERFIELD-SCOVILLE Hemilaminectomy Retractor Frame
 Spread: 7 1/4" (18.4cm)
 Arm length: 5 3/4" (14.6cm), hinged

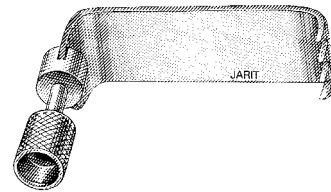
SCOVILLE Blades,
 hook style

- 290-211** 2" deep (5.1cm)
- 290-212** 3" deep (7.6cm)
- 290-213** 2" deep (5.1cm), with cross bar
- 290-214** 2 3/4" deep (7cm), with cross bar



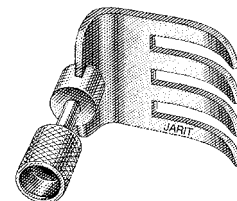
SCOVILLE Blades,
 solid

- 290-215** 1" wide x 2 1/2" deep (2.5 x 6.4cm)
- 290-216** 2" wide x 2 1/2" deep (5.1 x 6.4cm)
- 290-217** 1 1/2" wide x 2 3/8" deep (2.9 x 6.7cm)
- 290-218** 1" wide x 3 1/2" deep (2.5 x 8.9cm)



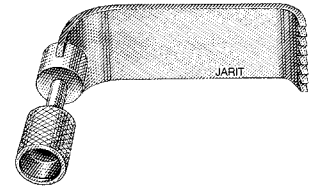
SCOVILLE Blades,
 4 prongs

- 290-221** 1 1/2" wide x 1 3/8" deep (3.8 x 4.1cm)
- 290-222** 1 3/8" wide x 2 3/8" deep (4.8 x 6.7cm)



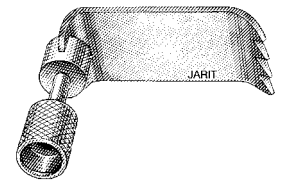
MEYERDING Blades

- 290-225** 1" wide x 2¼" deep (2.5 x 5.7cm)
- 290-226** 1" wide x 3" deep (2.5 x 7.6cm)
- 290-227** 2" wide x 3½" deep (5.1 x 8.9cm)



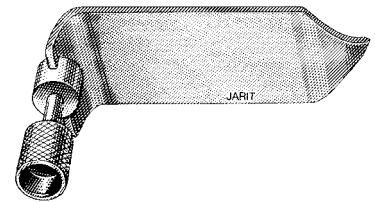
HIBBS Blades

- 290-230** 1" wide x 2" deep (2.5 x 5.1cm)
- 290-231** 2" wide x 2" deep (5.1 x 5.1cm)
- 290-232** 1" wide x 2½" deep (2.5 x 6.4cm)
- 290-233** 1½" wide x 2½" deep (3.8 x 6.4cm)
- 290-234** 1" wide x 3" deep (2.5 x 7.6cm)
- 290-235** 1½" wide x 3" deep (3.8 x 7.6cm)
- 290-236** 2" wide x 3" deep (5.1 x 7.6cm)
- 290-237** 1" wide x 4" deep (2.5 x 10.2cm)
- 290-238** 2" wide x 4" deep (5.1 x 10.2cm)



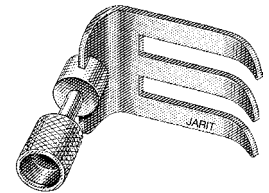
TAYLOR Spinal Blades

- 290-240** 1¼" wide x 3" deep (3.2 x 7.6cm)
- 290-241** 1¼" wide x 4" deep (3.2 x 10.2cm)



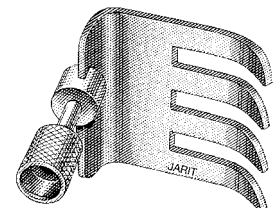
TAYLOR Laminectomy Blade,
3 prongs

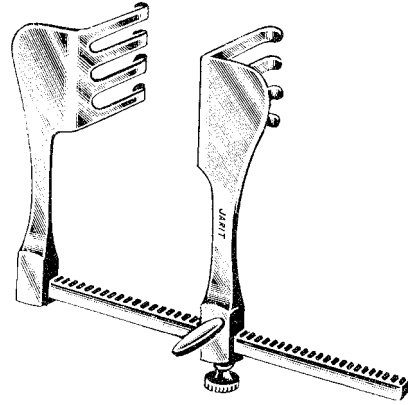
- 290-242** 1½" wide x 1¼" deep (3.8 x 4.4cm)



TAYLOR Laminectomy Blades,
4 prongs

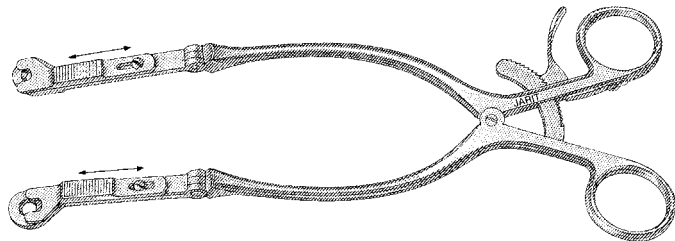
- 290-244** 2" wide x 1¼" deep (5.1 x 4.8cm)
- 290-245** 2½" wide x 2½" deep (6.4 x 6.4cm)
- 290-246** 2½" wide x 3¼" deep (5.7 x 7.9cm)





BADGLEY Laminectomy Retractor
 290-251 6½" (16.5cm) spread

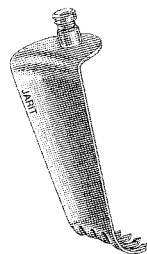
290-260 JARIT Cervical Retractor Set,
 large, 10" (25.4cm) with 7 pairs of sharp blades



290-261 JARIT Cervical Retractor Body,
 large, 10" (25.4cm)

JARIT Cervical Retractor Blades,
 4 sharp prongs, 15mm wide

- 290-262** 25mm deep blades
- 290-263** 30mm deep blades
- 290-264** 35mm deep blades
- 290-265** 40mm deep blades
- 290-266** 45mm deep blades
- 290-267** 50mm deep blades
- 290-268** 55mm deep blades

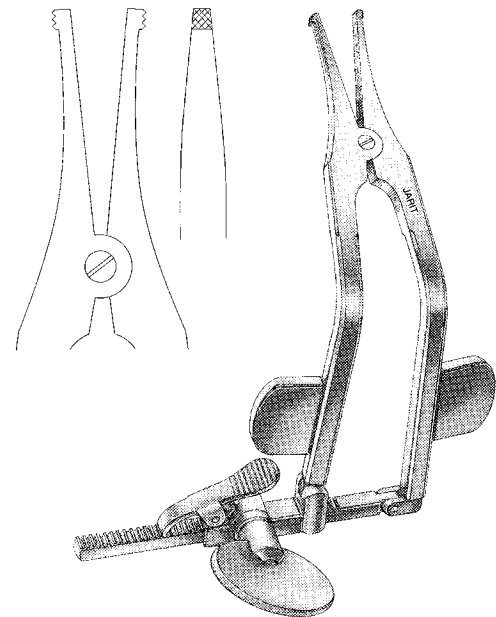
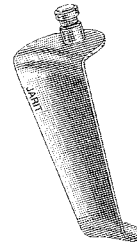
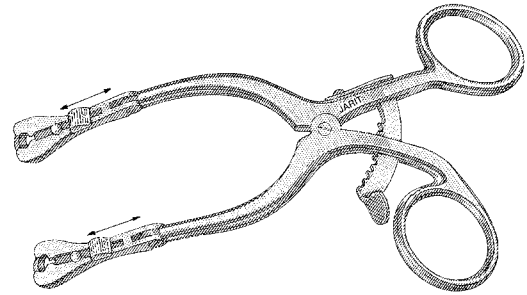


290-280 JARIT Cervical Retractor Set,
small, 6 $\frac{3}{4}$ " (17.1cm) with 7 pairs of blunt blades

290-281 JARIT Cervical Retractor Body,
small, 6 $\frac{3}{4}$ " (17.1cm)

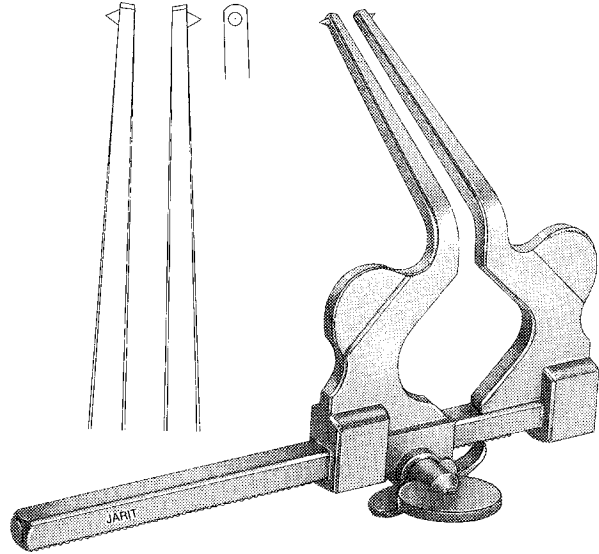
JARIT Cervical Retractor Blades,
blunt, 15mm wide

- 290-282** 25mm deep blades
- 290-283** 30mm deep blades
- 290-284** 35mm deep blades
- 290-285** 40mm deep blades
- 290-286** 45mm deep blades
- 290-287** 50mm deep blades
- 290-288** 55mm deep blades

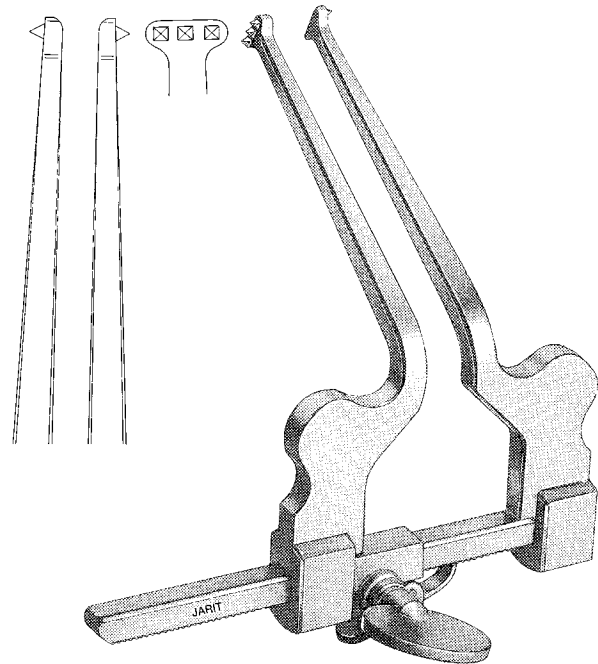


290-300 JARIT Vertebra Spreader,
5" (12.7cm) total length,
maximum opening $\frac{25}{32}$ " (2cm)

290-305 JARIT Vertebra Spreader,
2¾" (7cm) arm length,
maximum opening 3¼" (7.9cm)



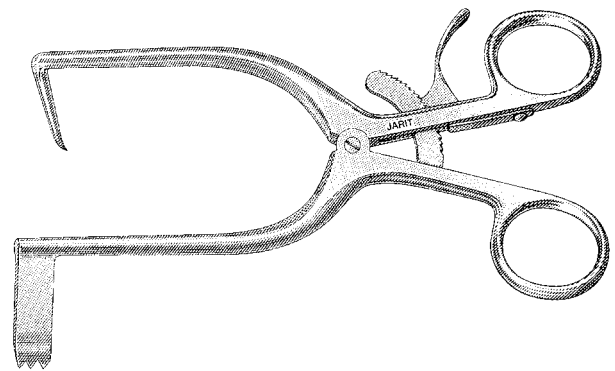
290-310 JARIT Lumbar Lamina Spreader,
3¾" (8.6cm) arm length,
maximum opening 2¾" (7cm)



290-315 JARIT Lumbar Interbody Spreader,
4" (10.2cm) arm length,
maximum opening 2¾" (7cm)

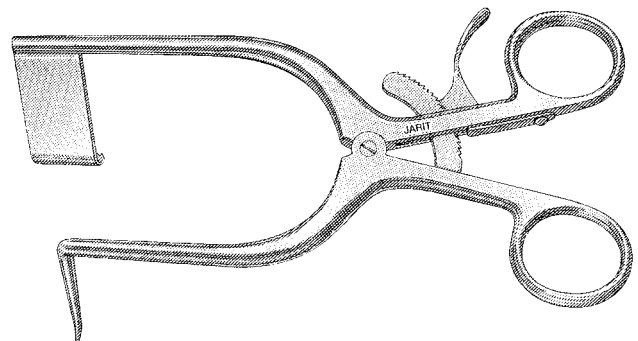
WILLIAMS-Type Discectomy Retractors,
narrow blade, 6 $\frac{3}{4}$ " (17.1 cm)

- 290-320** 5cm x 1cm, left (illustrated)
- 290-321** 5cm x 1cm, right
- 290-322** 6cm x 1cm, left
- 290-323** 6cm x 1cm, right
- 290-324** 7cm x 1cm, left
- 290-325** 7cm x 1cm, right



WILLIAMS-Type Discectomy Retractors,
wide blade, 6 $\frac{3}{4}$ " (17.1 cm)

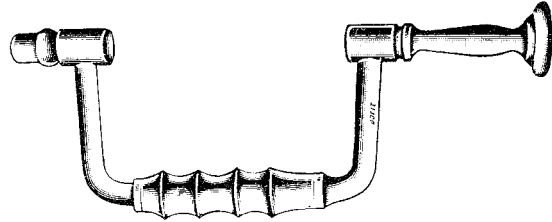
- 290-330** 5cm x 2cm, left
- 290-331** 5cm x 2cm, right (illustrated)
- 290-332** 6cm x 2cm, left
- 290-333** 6cm x 2cm, right
- 290-334** 7cm x 2cm, left
- 290-335** 7cm x 2cm, right



295-110 **HUDSON** Cranial Drill Set

Includes:

295-111 **HUDSON** Brace



295-112 **HUDSON** Burr,
9mm diameter



295-113 **HUDSON** Burr,
14mm diameter



295-114 **HUDSON** Burr,
16mm diameter



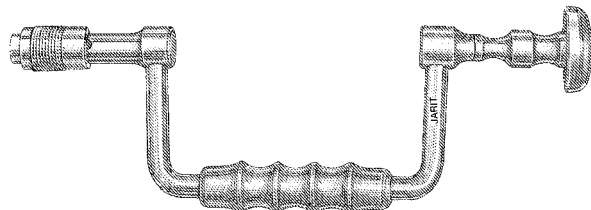
295-115 **HUDSON** Burr,
22mm diameter



295-116 **HUDSON** Cerebellar Extension

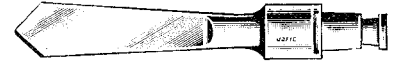


295-117 **HUDSON** Brace,
improved model with precision snap lock

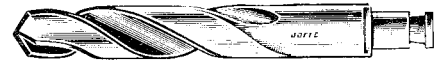


CUSHING Perforator Drills

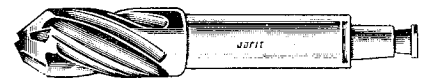
- 295-130 10mm diameter
- 295-131 13mm diameter
- 295-132 16mm diameter



- 295-140 **McKENZIE** Perforator Drill,
13mm diameter



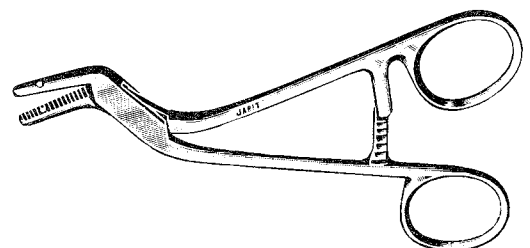
- 295-145 **D'ERRICO** Perforator Drill,
16mm diameter



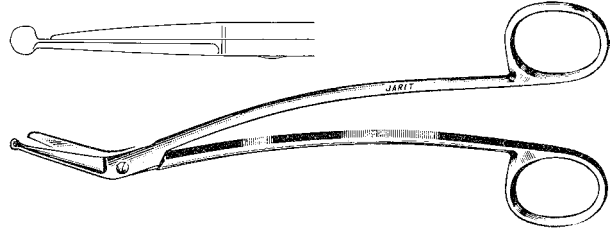
- 295-150 **McKENZIE** Enlarging Burr,
20mm diameter



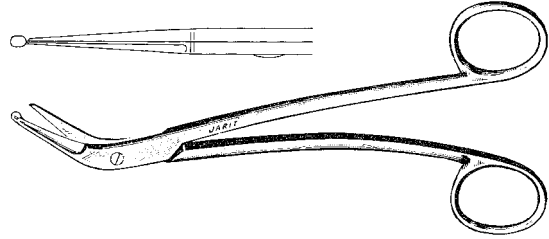
- 295-175 **ADSON** Drill Guide,
6" (15.2cm), angled on side



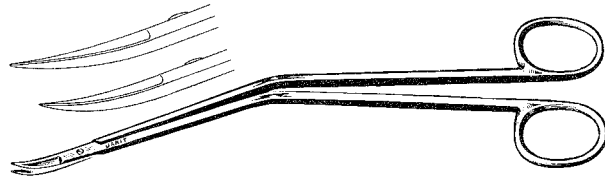
295-200 FRAZIER (Schmeden) Dura Scissors,
6½" (16.5cm)



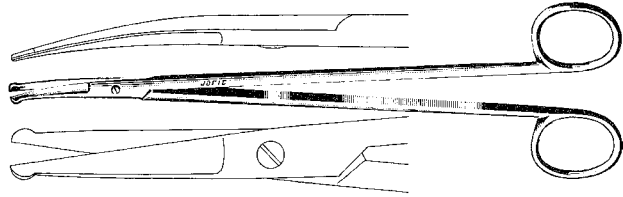
295-205 TAYLOR Dura Scissors,
5¾" (14.6cm), delicate



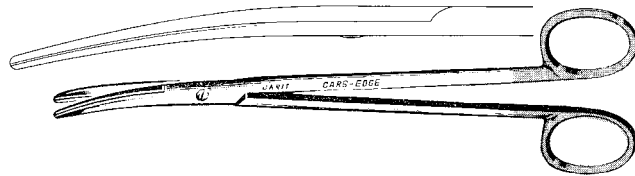
DANDY Trigeminal Scissors
295-210 6¾" (17.1cm)
295-211 7¾" (19.7cm)



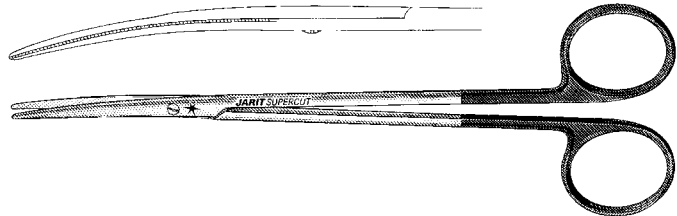
295-215 STRULLY Scissors,
8" (20.3cm)



101-261 METZENBAUM CARB-EDGE Scissors,
7" (17.8cm), curved, delicate

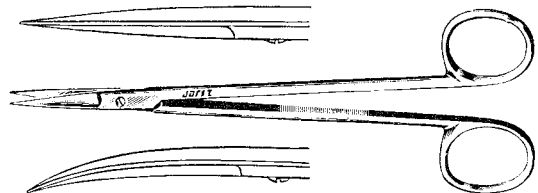


102-310 JARIT SUPERCUT METZENBAUM Scissors,
7" (17.8cm), curved, delicate



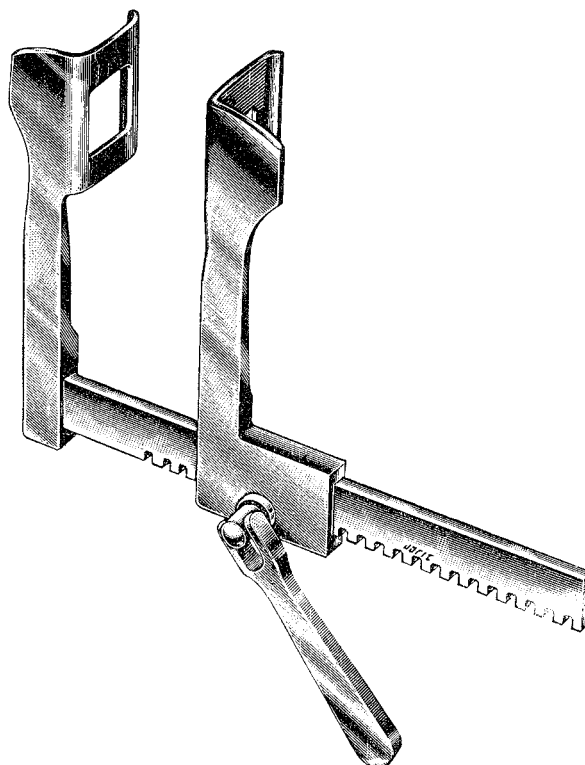
ADSON Ganglion Scissors,
6¾" (15.9cm)

295-220 Straight
295-221 Curved



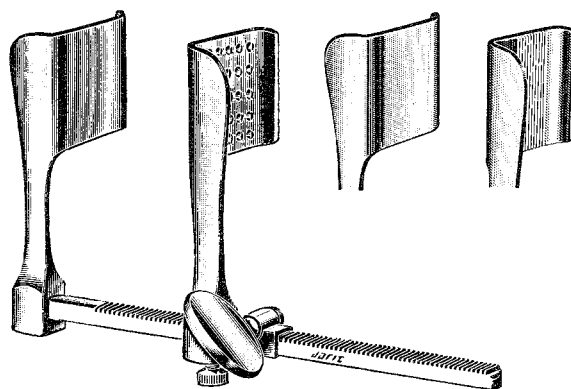
FINOCHIETTO Rib Spreaders,
curved arms

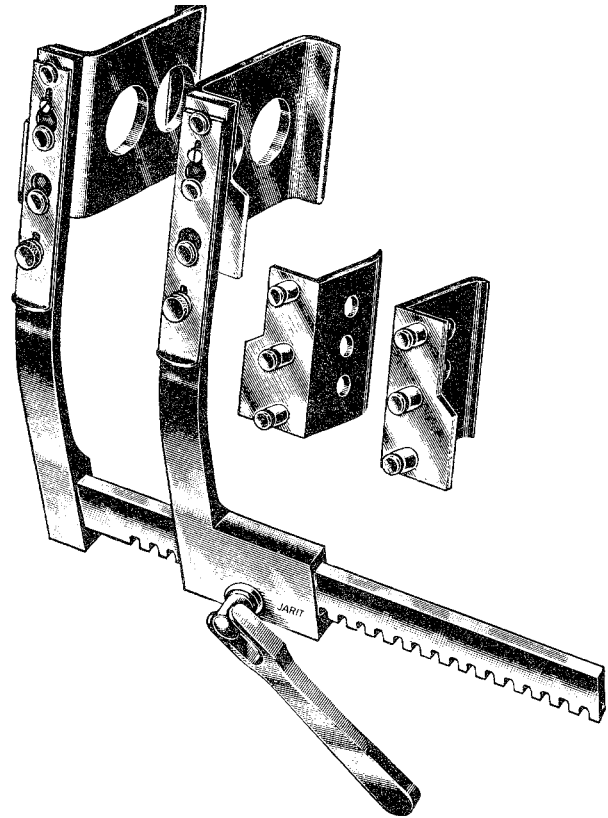
- 300-100** Child size
Spread: 6" (15.2cm)
Arm length: 5 1/2" (13cm)
Blades: 1 3/4" x 1 1/2" deep (4.5 x 3.8cm)
- 300-105** Adult size, medium
Spread: 8 1/2" (21.6cm)
Arm length: 7 1/4" (18.4cm)
Blades: 2 1/2" x 2" deep (6.4cm x 5.1cm)
- 300-115** Adult size, large
Spread: 8 1/2" (21.6cm)
Arm length: 7 1/4" (18.4cm)
Blades: 2 3/4" x 2 1/2" deep (6.7 x 6.4cm)



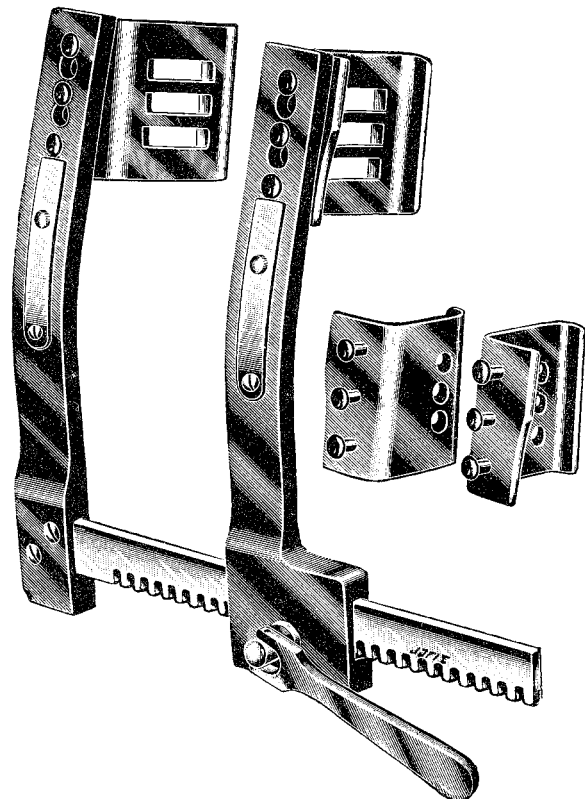
TUFFIER Rib Spreaders

- 300-150** Roughened blades
Spread: 7" (17.8cm)
Arm Length: 4 1/4" (10.8cm)
Blades: 1 3/4" x 1 1/2" deep (4.4 x 4.8cm)
- 300-151** Grooved blades
Spread: 7" (17.8cm)
Arm Length: 4 1/4" (10.8cm)
Blades: 1 3/4" x 1 1/2" deep (4.4 x 4.8cm)



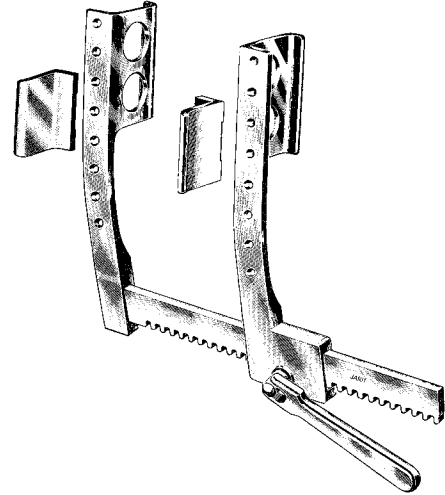


300-175 BURFORD Rib Spreader,
2 pairs of interchangeable blades,
stainless steel
Spread: 7 $\frac{1}{4}$ " (19.7cm)
Arm length: 7 $\frac{1}{4}$ " (19.7cm)
Small blades: 1 $\frac{1}{4}$ " x 2 $\frac{1}{2}$ " deep (4.1 x 6.4cm)
Large blades: 2 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " deep (6.4 x 7.3cm)



300-180 BURFORD Rib Spreaders,
2 pairs of interchangeable blades,
arms and blades aluminum,
ratchet bar stainless steel
Spread: 8" (20.3cm)
Arm length: 7 $\frac{1}{4}$ " (19.7cm)
Small blades: 1 $\frac{1}{4}$ " x 2 $\frac{1}{2}$ " deep (4.4 x 6.4cm)
Large blades: 2 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " deep (6.4 x 6.4cm)

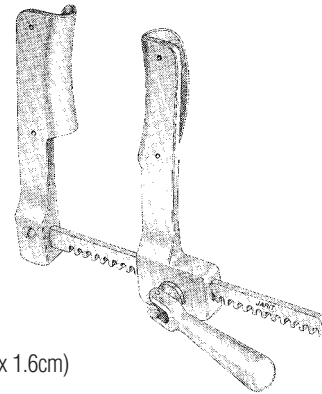
300-185 HARKEN Rib Spreader and Scapula Retractor,
2 pairs of blades, stainless steel
Spread: 8¼" (21cm)
Arm length: 8¼" (21cm)
Fixed blades: 2½" x 1¼" deep (6.4 x 4.4cm)
Scapula blades: 2" x 2" deep (5.1 x 5.1cm)



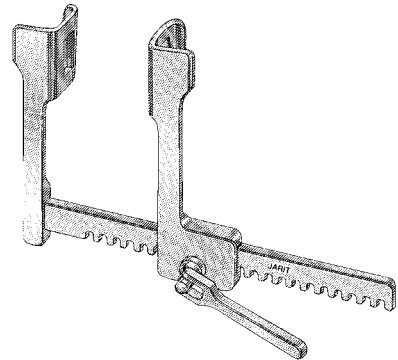
CASTANEDA Rib Spreaders,
aluminum
300-190 Newborn size
Spread: 2½" (6.4cm)
Arm length: 2¼" (5.4cm)
Blades: 1¼" x ⅞" deep (3.2 x 1.1cm)

300-192 Infant size
Spread: 2¾" (7cm)
Arm length: 3⅞" (7.9cm)
Blades: 1¼" x ½" deep (4.4 x 1.3cm)

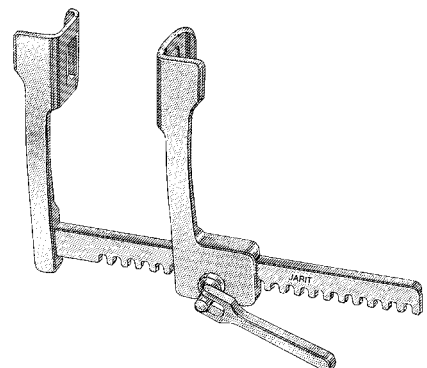
300-194 Child size
Spread: 4¾" (12cm)
Arm length: 5" (12.7cm)
Blades: 2¾" x ⅝" deep (6 x 1.6cm)



300-200 FINOCHIETTO Infant Rib Spreader,
straight arms, stainless steel
Spread: 3¼" (8.3cm)
Arm length: 2¾" (7cm)
Blades: ¾" x ¾" deep (1.9 x 1.9 cm)



300-202 FINOCHIETTO Infant Rib Spreader,
curved arms, stainless steel
Spread: 3¼" (8.3cm)
Arm length: 2¾" (6cm)
Blades: ¾" x ⅝" deep (1.9 x 1.6 cm)



JARIT RIB SPREADERS-RETRACTORS

HAIGHT Pediatric Rib Spreaders, stainless steel

Spread: 4½" (11.4cm)

Blades: 1⅞" x 1⅞" deep (3 x 3cm)

300-210 Arm length: 2½" (6.4cm)

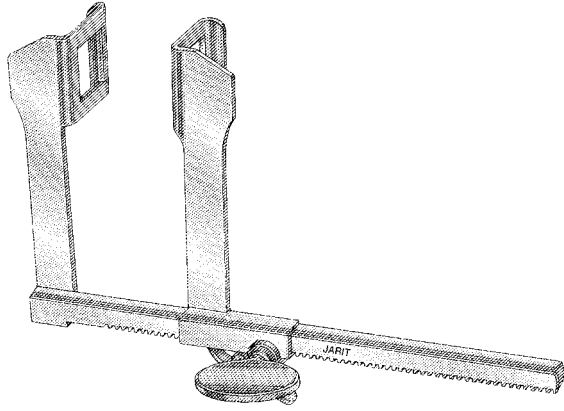
300-211 Arm length: 3½" (8.9cm)

HAIGHT-FINOCHIETTO Pediatric Rib Spreader, arms and blades aluminum, ratchet bar stainless steel

300-213 Spread: 3½" (9.8cm)

Arm length: 3⅞" (7.9cm)

Blades: 1⅞" x 1⅞" deep (3 x 2.7cm)

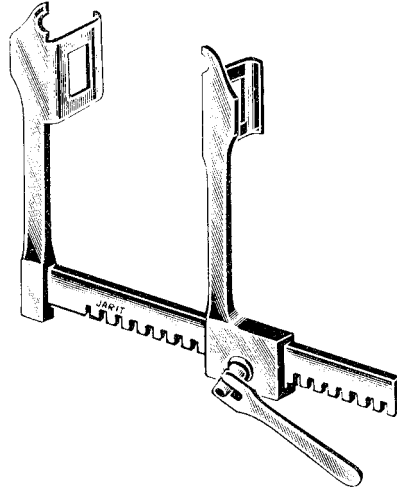


300-225 FINOCHIETTO Infant Rib Spreader-Approximator, stainless steel

Spread: 3½" (8.9cm)

Arm length: 2⅞" (6cm)

Blades: ⅞" x ¾" deep (2.2 x 1.9cm)

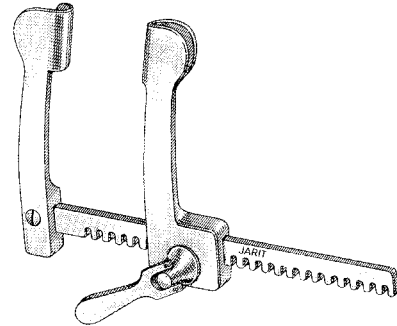


320-510 COOLEY Neonatal Sternal Retractor, arms and blades aluminum, ratchet bar stainless steel

Spread: 3½" (7.9cm)

Arm length: 2⅞" (5.4cm)

Blades: 1⅞" x ⅜" deep (1.7 x 1cm)



COOLEY Pediatric Aluminum Sternal Retractors, arms and blades aluminum, ratchet bar stainless steel

320-514 Spread: 4⅞" (11.7cm)

Arm length: 3⅞" (7.9cm)

Blades: 2.9cm x 2cm deep

320-515 Spread: 3⅞" (8.6cm)

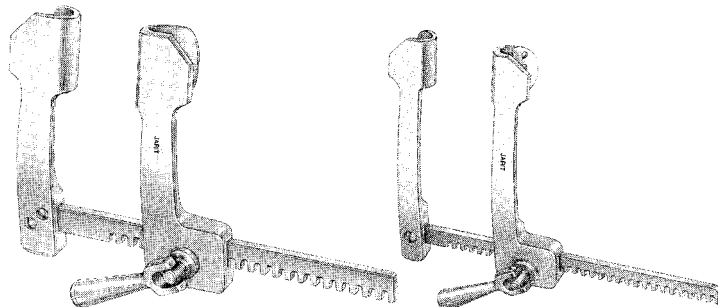
Arm length: 2⅞" (7cm)

Blades: 1.6cm x 1.4cm deep

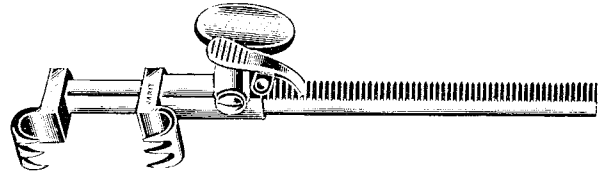
320-516 Spread: 4" (10.2cm)

Arm length: 3⅞" (8.6cm)

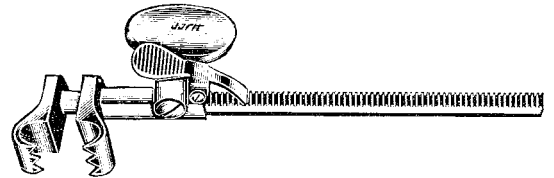
Blades: 1.9cm x 1.4cm deep



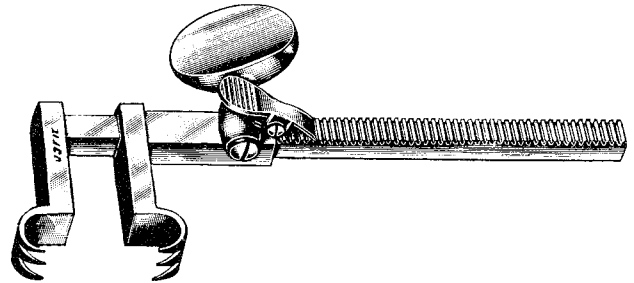
300-230 BAILEY Rib Contractor,
7" (17.8cm), adult



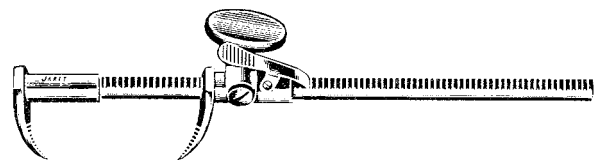
300-231 BAILEY Rib Contractor,
5½" (14cm), pediatric



300-235 BAILEY-GIBBON Rib Contractor,
7" (17.8cm)



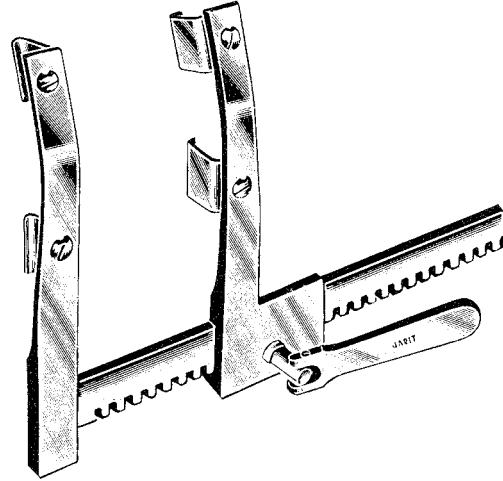
300-238 LEMMON Sternal Approximator,
7" (17.8cm)



MORSE Sternal Retractors,
stainless steel

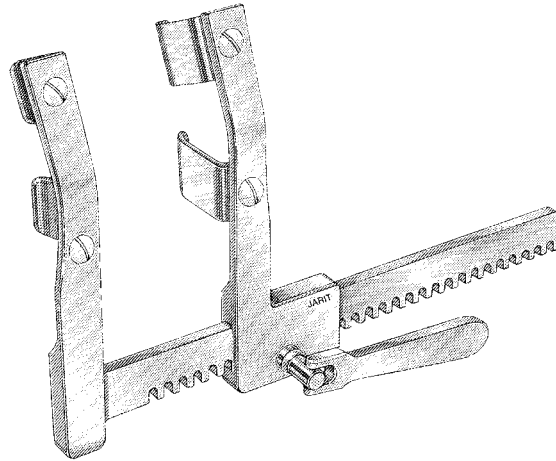
300-250 Child size
Spread: 6" (15.2cm)
Arm length: 4½" (12.1cm)
Blades: ¾" x ¾" deep (2.2 x 1.6cm)

300-251 Adult size
Spread: 8" (20.3cm)
Arm length: 7½" (19cm)
Blades: 1½" x ¾" deep (2.9 x 2.2cm)



FAVALORO-MORSE Sternal Retractor,
stainless steel

300-253
Spread: 8" (20.3cm)
Arm length: 7½" (18.4cm)
Blades: 1½" x 1½" deep (2.9 x 3.8cm)

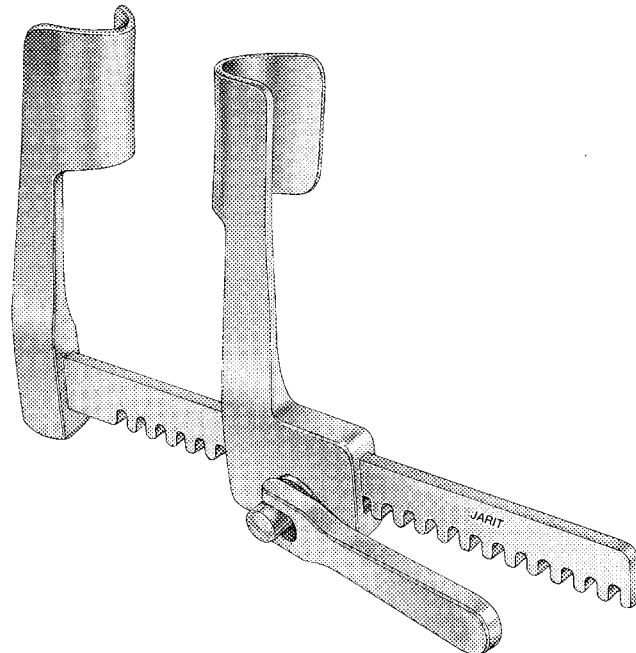


COOLEY Sternal Retractors,
stainless steel

300-260 Child size
Spread: 5½" (13.3cm)
Arm length: 4½" (10.8cm)
Blades: 1¾" x ¾" deep (4.4 x 2.2cm)

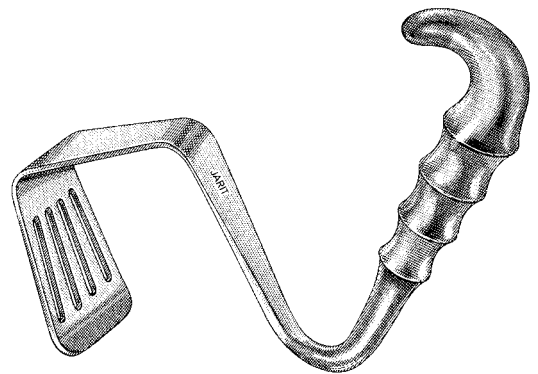
300-261 Adult size
Spread: 6½" (16.5cm)
Arm length: 5½" (13.7cm)
Blades: 2" x 1½" deep (5.1 x 2.9cm)

300-262 Extra large
Spread: 7" (17.8cm)
Arm length: 6" (15.2cm)
Blades: 4" x 1½" deep (10.2 x 2.9cm)



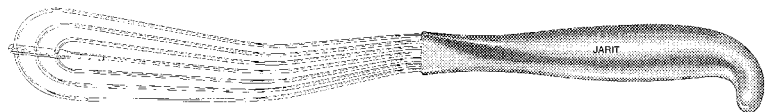
DAVIDSON Scapula Retractors

- 300-450** Small size: 3" x 2" wide (7.6 x 5.1cm)
- 300-451** Large size: 3" x 3½" wide (7.6 x 8.9cm)

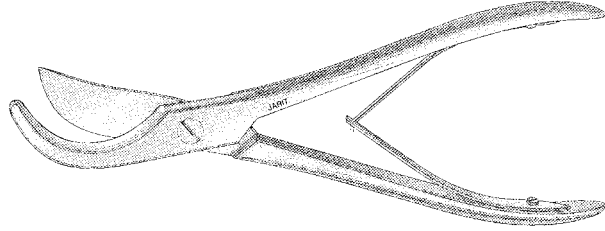


ALLISON Lung Retractors

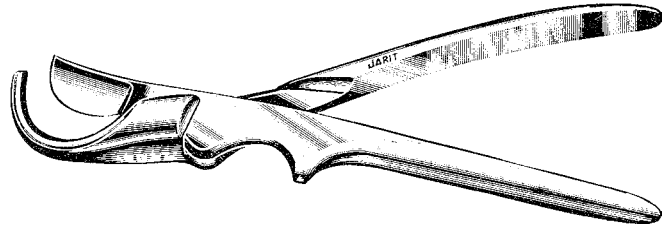
- 310-420** Large size: 12¾" (32.4cm), 2⅞" wide (5.2cm)
- 310-424** Small size: 10⅞" (26.4cm), 1½" wide (3.8cm)



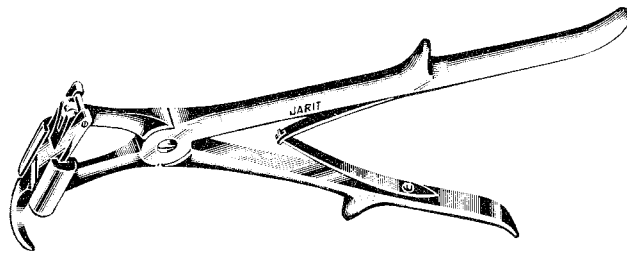
300-300 **PLAIN** Rib Shears,
9" (22.9cm)



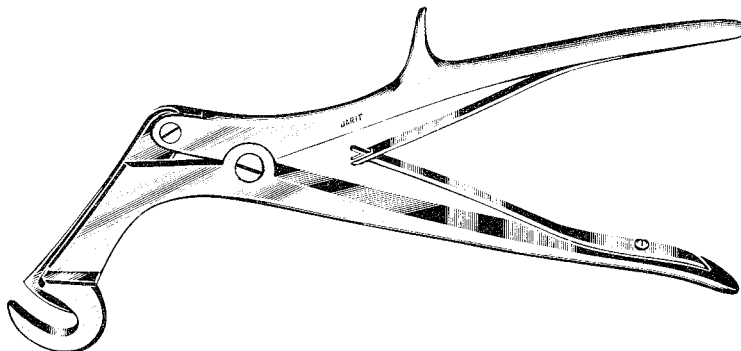
300-302 **GLUCK** Rib Shears,
7½" (19cm)



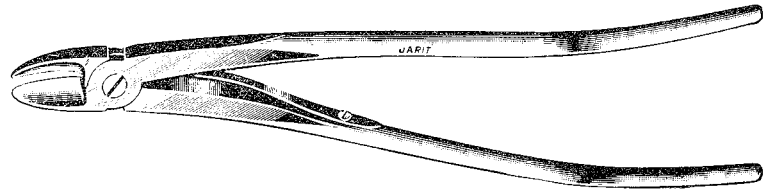
300-304 **SAUERBRUCH** Rib Shears,
10½" (26.7cm)



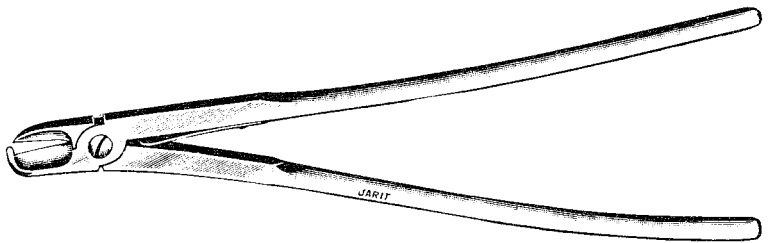
300-305 **STILLE-GIERTZ** Rib Shears,
10" (25.4cm)



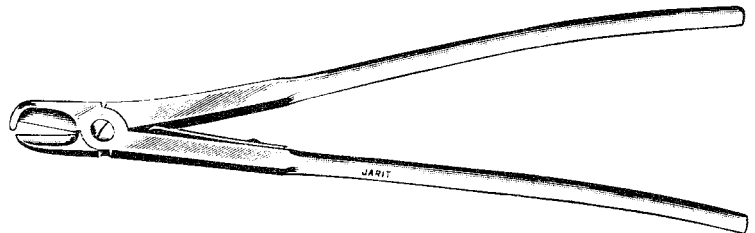
300-310 BETHUNE Rib Shears,
14" (35.6cm)



300-315 BETHUNE-CORYLLOS Rib Shears,
14" (35.6cm), left

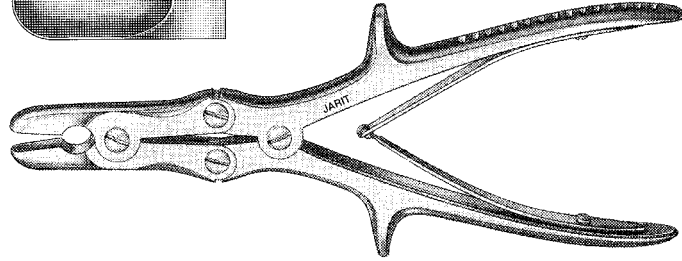
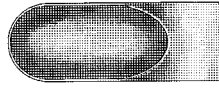


300-316 BETHUNE-CORYLLOS Rib Shears,
14" (35.6cm), right



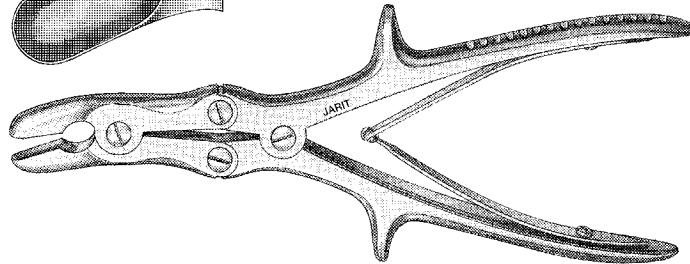
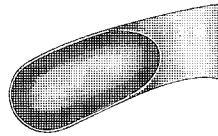


BONE CUTTING FORCEPS - RONGEURS



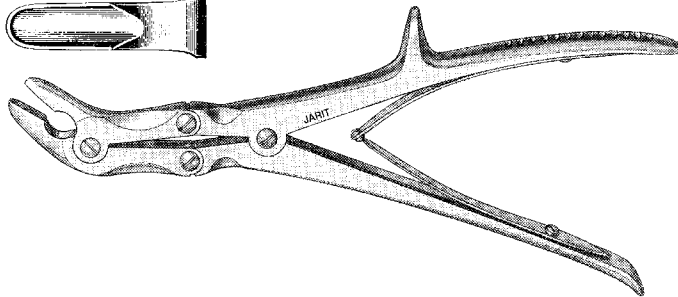
STILLE-LUER Rongeurs,
straight, 10mm bite

- 230-230** 8½" (21.6cm)
- 230-235** 10½" (26.7cm)

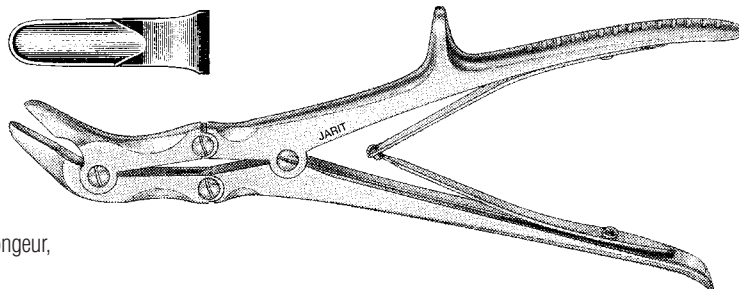
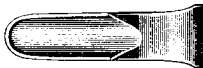


STILLE-LUER Rongeurs
curved, 10mm bite

- 230-231** 8½" (21.6cm)
- 230-236** 10½" (26.7cm)

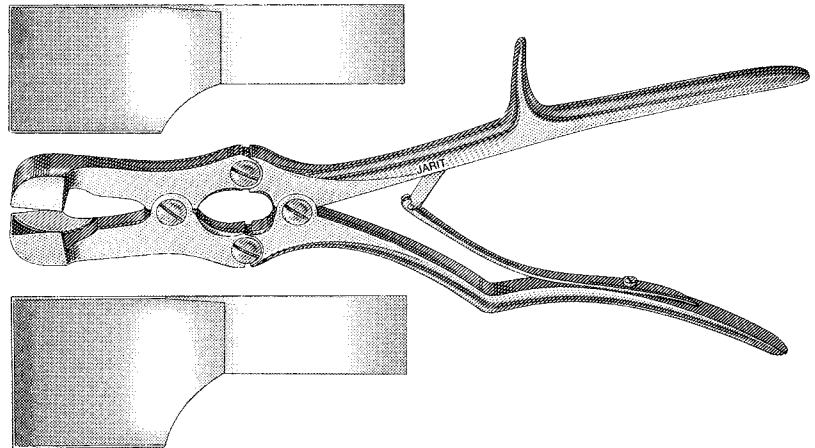


230-240 **STILLE-LUER** Angular Duckbill Rongeur,
9" (22.9cm), 6mm bite



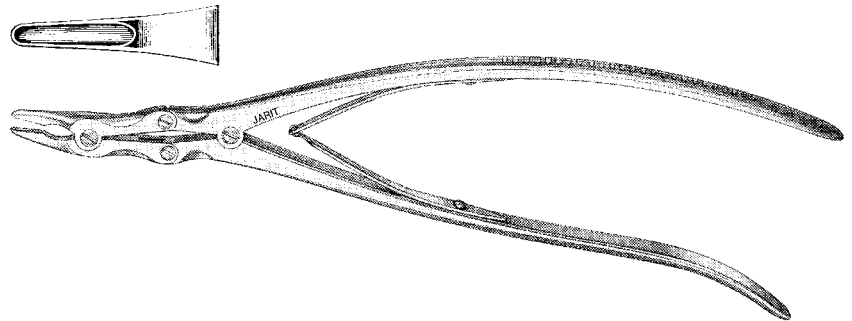
230-250 **STILLE-LUER-ECHLIN** Angular Duckbill Rongeur,
9" (22.9cm), 6mm bite

JARIT BONE CUTTING FORCEPS - RONGEURS

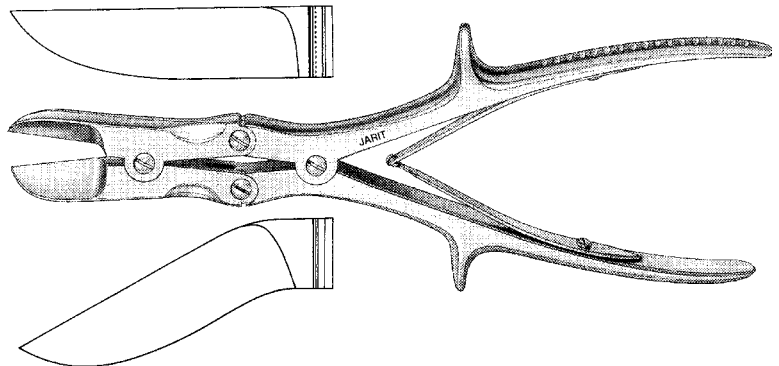


SAUERBRUCH Rib Rongeurs,
11½" (29.2cm), square bite

- 230-275** ⅝" (1.6cm) wide jaw
- 230-276** ¾" (1.9cm) wide jaw

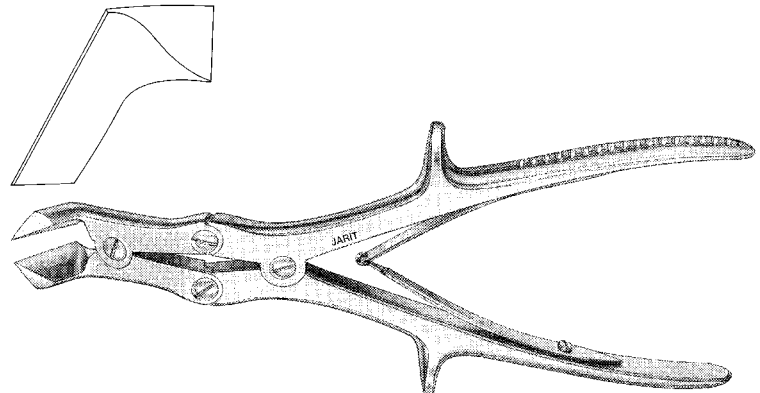


230-280 DALE Thoracic Rongeur,
14½" (36.8cm), 3mm bite



STILLE-LISTON Bone Cutting Forceps,
10½" (26.7cm)

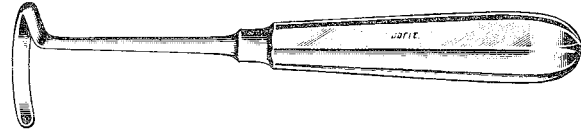
- 230-320** Straight
- 230-321** Up-angled



230-325 STILLE-HORSLEY Rongeur,
10" (25.4cm), S-shaped

DOYEN Raspatories,
6½" (16.5cm)

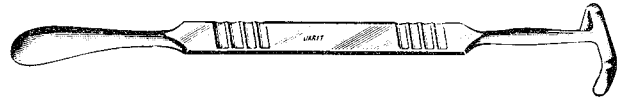
- 300-400** Large, left
- 300-402** Large, right
- 300-405** Small, left
- 300-407** Small, right



- 300-410** **MATSON-ALEXANDER** Rib Stripper,
8¾" (22.2cm)



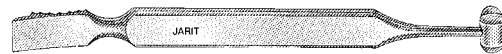
- 300-411** **MATSON** Rib Stripper and Elevator,
8¾" (22.2cm)



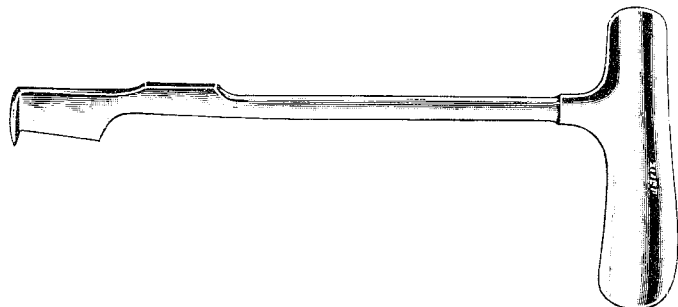
- 300-415** **ALEXANDER-FARABEUF** Periosteotome,
8¾" (21cm)



- 300-416** **ALEXANDER** Periosteotome,
pediatric size, 6" (15.2cm)

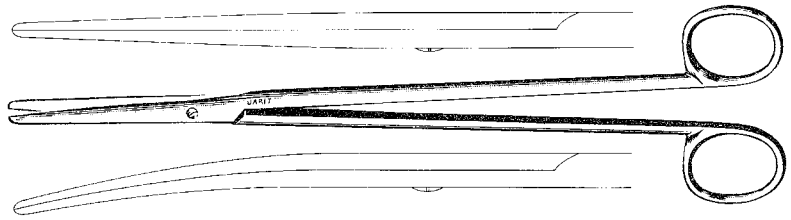


- 300-425** **LEBSCHKE** Sternum Chisel,
10" (25.4cm)



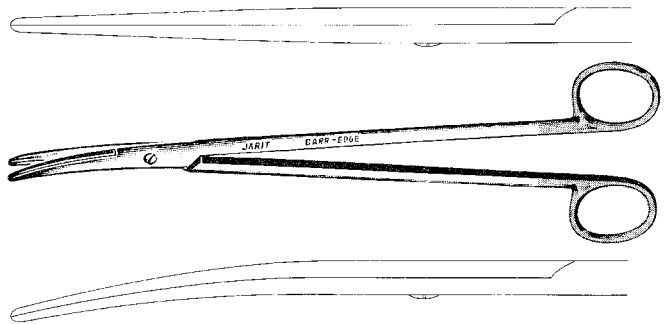
METZENBAUM (NELSON) Scissors

- 305-100** 9" (22.9cm), straight
- 305-101** 9" (22.9cm), curved
- 305-105** 11" (27.9cm), straight
- 305-106** 11" (27.9cm), curved
- 305-110** 14½" (36.8cm), curved



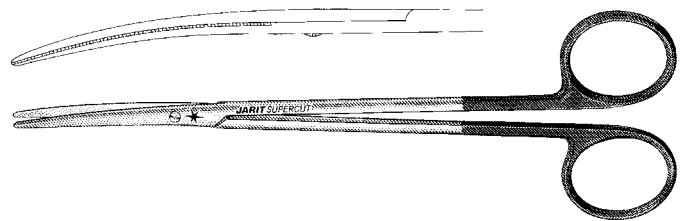
METZENBAUM (NELSON) CARB-EDGE Scissors

- 101-266** 9" (22.9cm), straight
- 101-267** 9" (22.9cm), curved
- 101-275** 9" (22.9cm), straight, delicate
- 101-276** 9" (22.9cm), curved, delicate
- 101-278** 9" (22.9cm), straight, sharp-sharp
- 101-279** 9" (22.9cm), curved, sharp-sharp
- 101-269** 10" (25.4cm), curved
- 101-270** 11" (27.9cm), curved
- 101-272** 12" (30.5cm), curved
- 101-256** 14" (35.6cm), curved

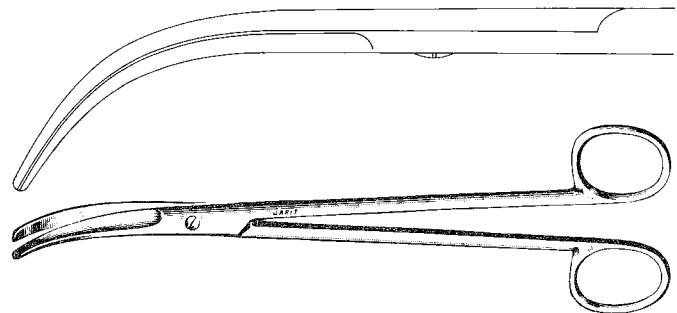


METZENBAUM SUPERCUT Scissors

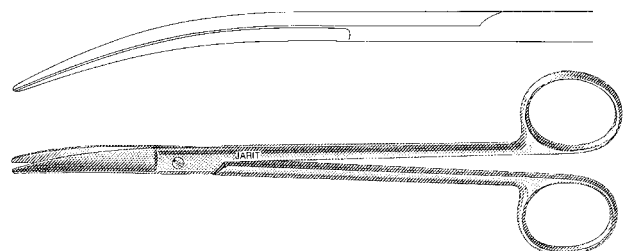
- 102-122** 7" (17.8cm), curved
- 102-125** 9" (22.8cm), curved
- 102-126** 10" (25.4cm), curved
- 102-128** 11" (28cm), curved
- 102-129** 12" (30.5cm), curved
- 102-127** 14" (35.6cm), curved



- 305-120** **JORGENSEN Scissors,**
8¾" (22.2cm), curved

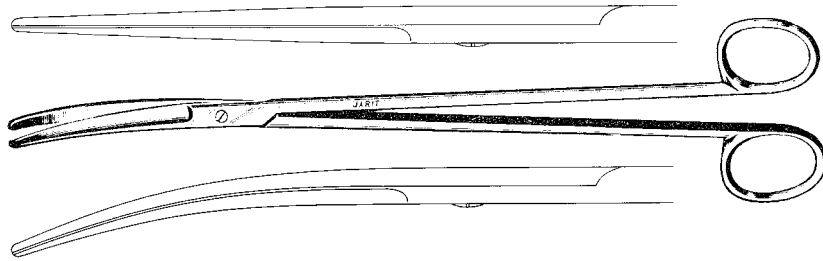


- 305-125** **COOLEY Scissors,**
7½" (19cm), curved



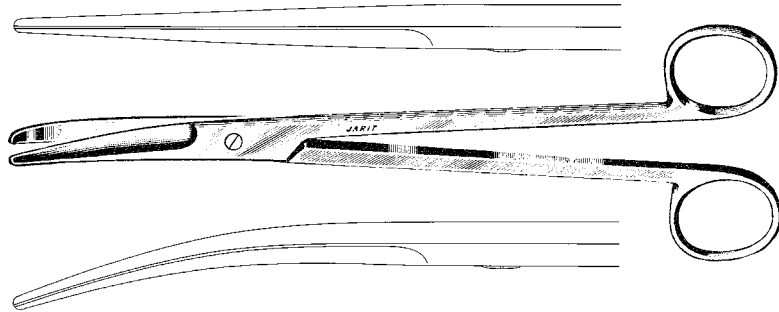
WILLAUER Scissors

- 305-130** 10" (25.4cm), straight
- 305-131** 10" (25.4cm), curved
- 305-135** 12" (30.5cm), straight
- 305-136** 12" (30.5cm), curved



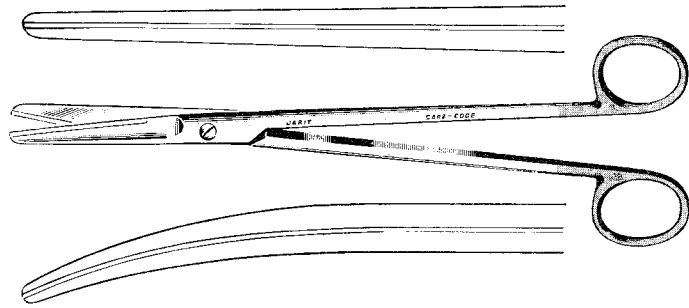
MAYO-HARRINGTON Scissors

- 305-140** 9" (22.9cm), straight
- 305-141** 9" (22.9cm), curved
- 305-145** 11" (27.9cm), straight
- 305-146** 11" (27.9cm), curved



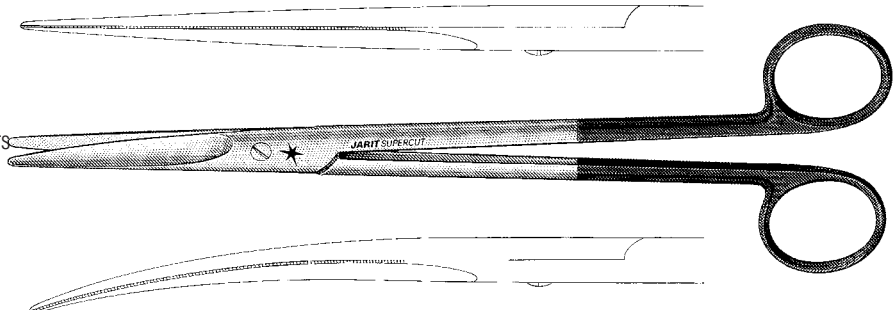
MAYO-HARRINGTON CARB-EDGE Scissors

- 101-225** 9" (22.8cm), straight
- 101-226** 9" (22.8cm), curved
- 101-230** 14" (35.6cm), straight
- 101-232** 14" (35.6cm), curved



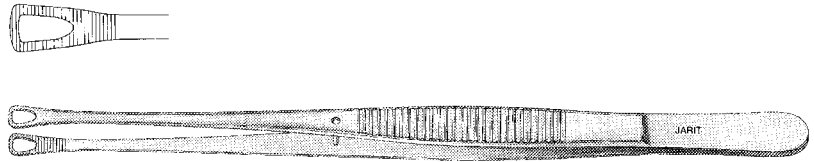
MAYO SUPERCUT Scissors

- 102-115** 9" (22.8cm), straight
- 102-116** 9" (22.8cm), curved
- 102-113** 10" (25.4cm), curved
- 102-118** 11" (28cm), curved
- 102-114** 12" (30.5cm), curved



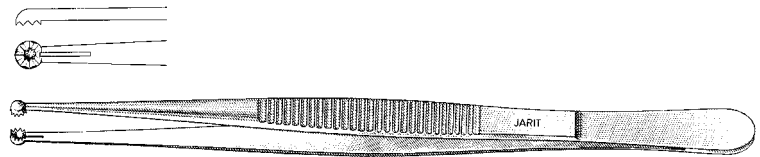
SINGLEY Tissue Forceps

- 135-250** 9" (22.8cm)
- 135-248** 14" (35.6cm)



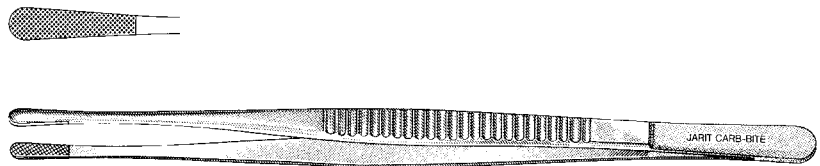
SELMAN Tissue Forceps,
round cup with teeth

- 135-252** 6" (15.2cm)
- 135-253** 8" (20.3cm)
- 135-254** 10" (25.4cm)



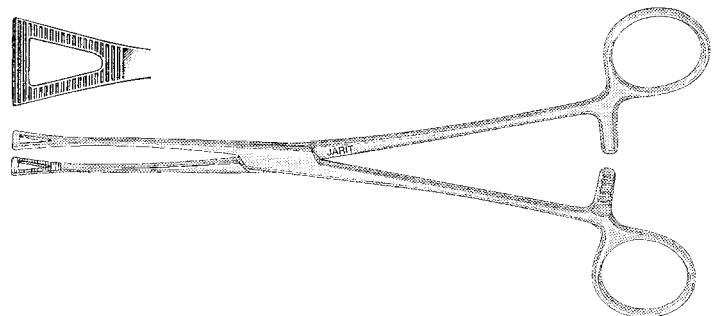
WANGENSTEEN Tissue Forceps,
with CARB-BITE tips

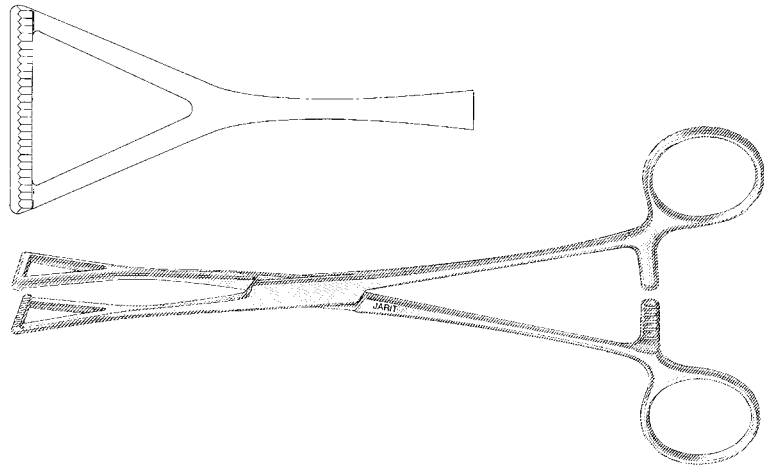
- 135-256** 6" (15.2cm)
- 135-257** 9" (22.8cm)
- 135-258** 10" (25.4cm)



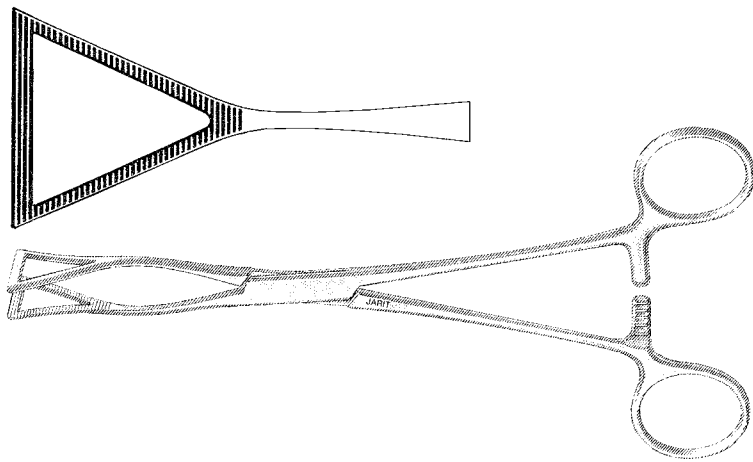
PENNINGTON Tissue Forceps,
8" (20.3cm), jaw width 3/8" (11mm)

- 305-200**



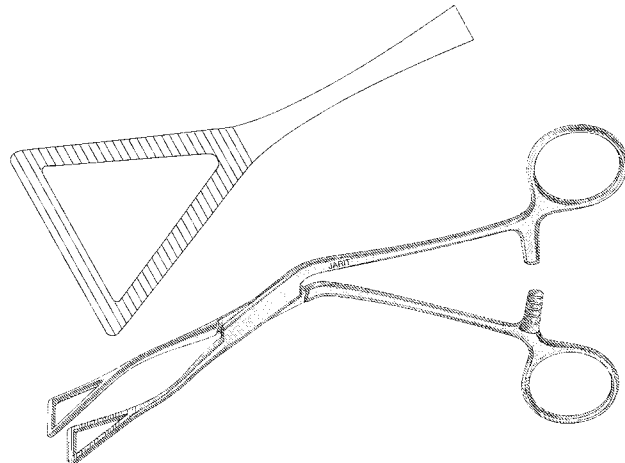


305-205 COLLINS Tissue Forceps,
9" (22.9cm), jaw width 1" (2.5cm)



DUVAL Lung Forceps

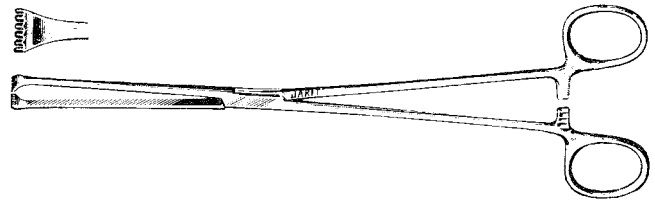
- 305-210** 8" (20.3cm), jaw width 1" (2.5cm)
- 305-215** 9" (22.9cm), jaw width 1" (2.5cm)



305-220 LOVELACE Lung Forceps,
7 1/4" (18.4cm), jaw width 1" (2.5cm)

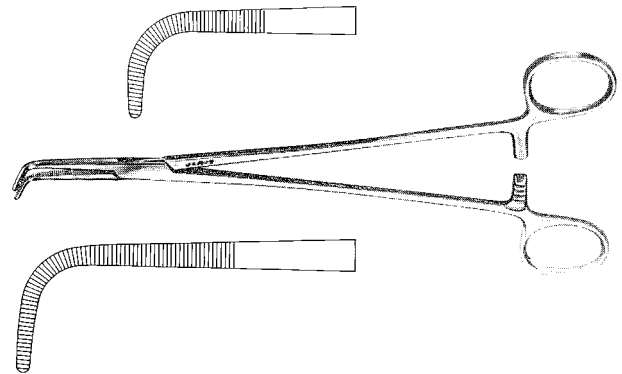
ALLIS-WILLAUER Tissue Forceps,
5 x 6 teeth

- 305-230** 10" (25.4cm)
- 305-231** 11¼" (28.6cm)
- 305-233** 14" (35.6cm)



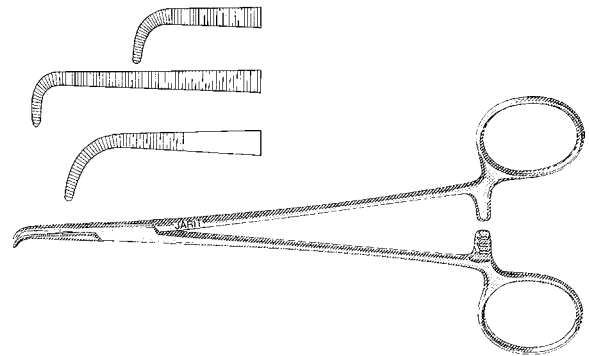
KANTROWITZ Thoracic Forceps

- 305-294** 6" (15.2cm)
- 305-295** 7½" (19cm)
- 305-296** 9½" (24.1cm)
- 305-297** 10½" (26.7cm)



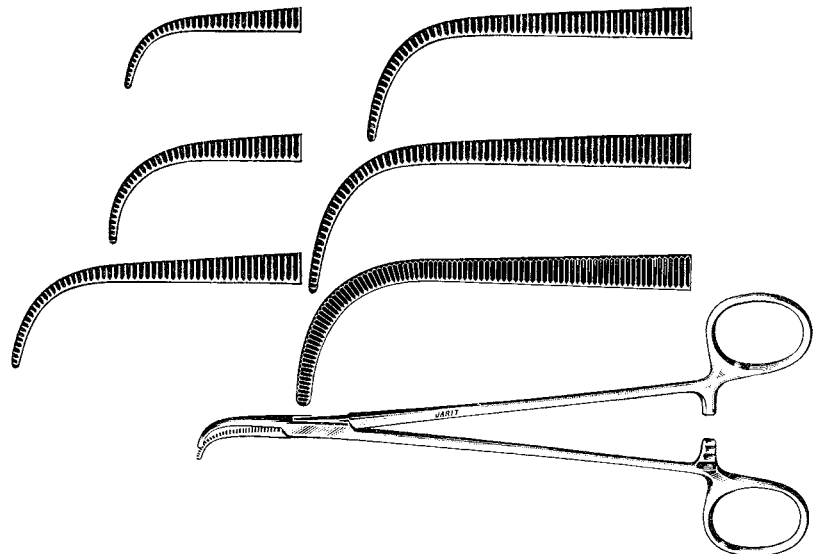
DIETRICH Clamps,
right angle

- 140-232** 4" (12.1cm)
- 140-233** 5" (14.3cm)
- 140-234** 7" (17.8cm)



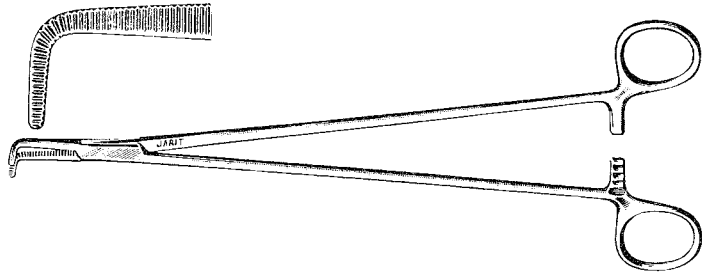
GEMINI Clamps

- 140-329** 5½" (14cm)
- 140-330** 7" (17.8cm)
- 140-331** 8" (20.3cm)
- 140-332** 9" (22.9cm)
- 140-333** 11" (27.9cm)
- 140-335** 14" (35.6cm)



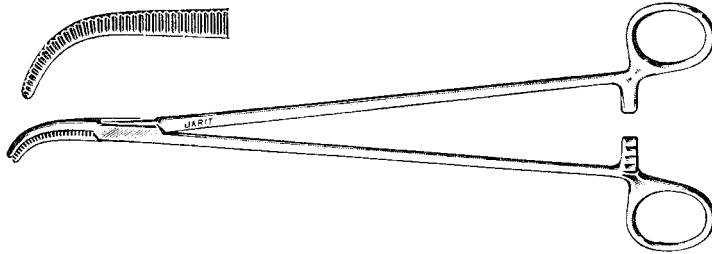
MEEKER Forceps,
right angle, delicate tip

140-231 7" (17.8cm)
305-300 11" (27.9cm)



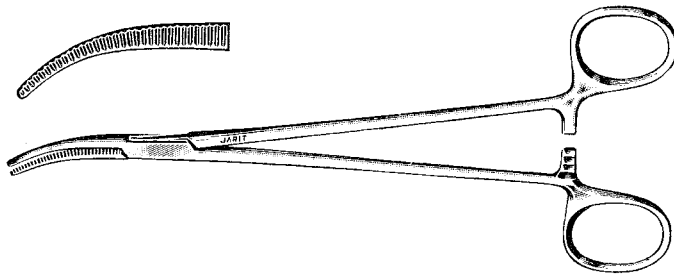
LAWRENCE Forceps,
strong curve

305-305 7½" (18.4cm)
305-306 11" (27.9cm)



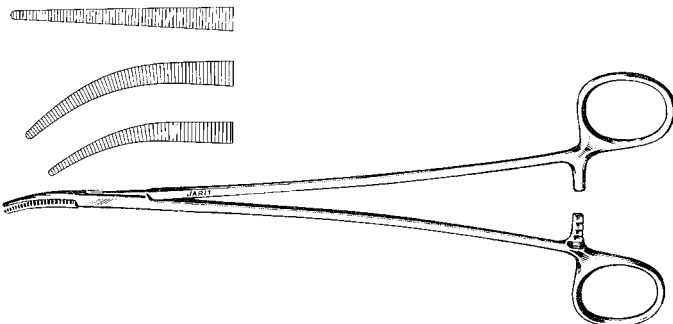
BRIDGE Forceps,
curved

305-308 7½" (19cm)
305-310 11" (27.9cm)



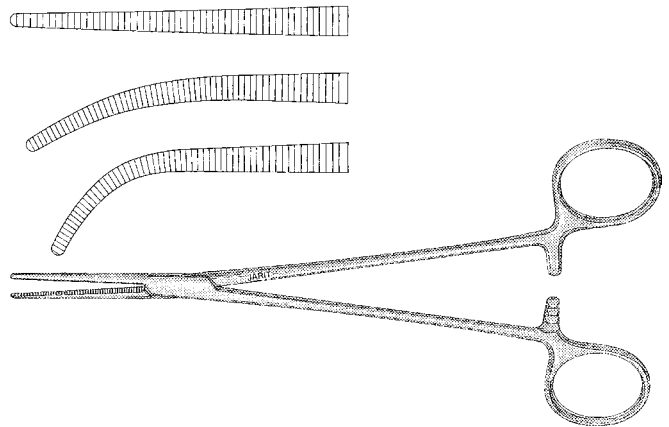
JARIT Mosquito Forceps

305-330 7½" (18.4cm) straight
305-332 7½" (18.4cm) curved
305-337 9½" (23.5cm) curved

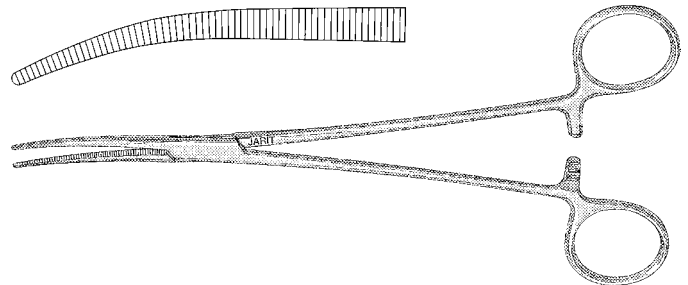


HEISS Artery Forceps,
8" (20.3cm)

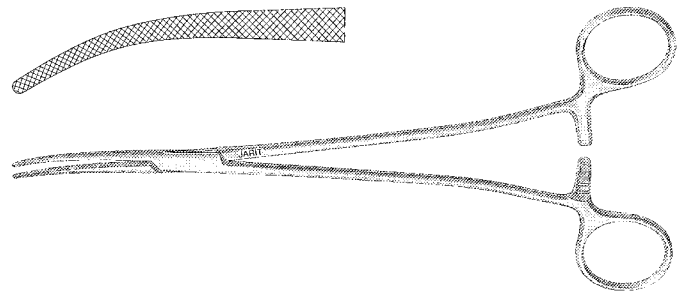
- 305-350** Straight
- 305-351** Half curved
- 305-352** Full curved



305-355 VANDERBILT UNIVERSITY Vessel Clamp,
8 3/4" (22.2cm)

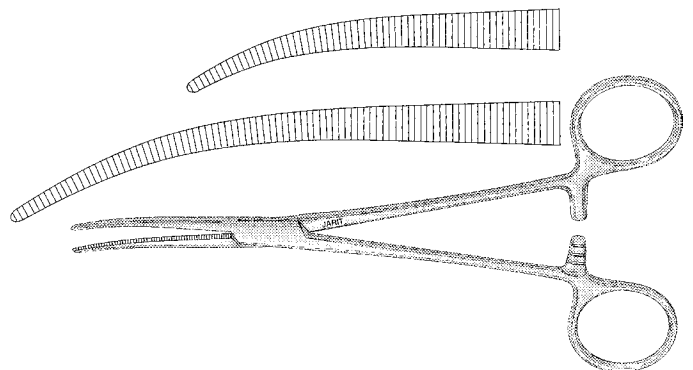


305-359 BENGOLEA Forceps,
8 1/2" (21.6cm)



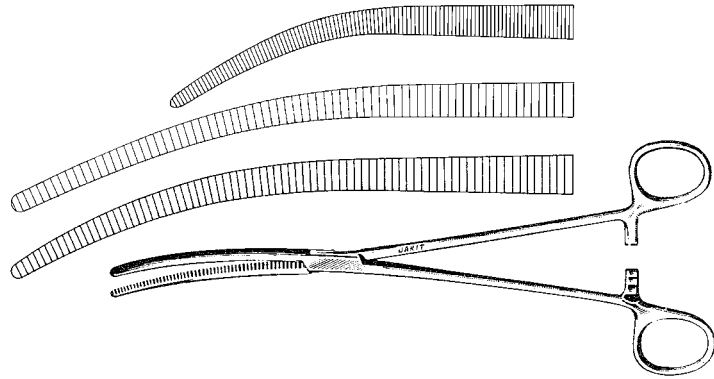
JARIT-CRAFOORD (COLLER) Forceps

- 305-360** 7 1/4" (18.4cm)
- 305-362** 9 1/2" (24.1cm)



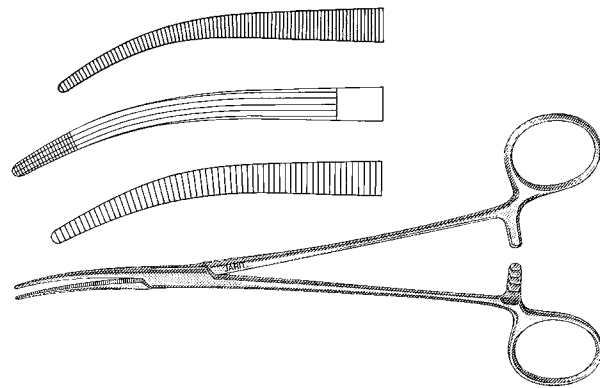
SAROT Artery Forceps

- 305-363** 7 $\frac{1}{2}$ " (19.7cm)
- 305-365** 9 $\frac{1}{2}$ " (24.1cm)
- 305-366** 14" (35.6cm)



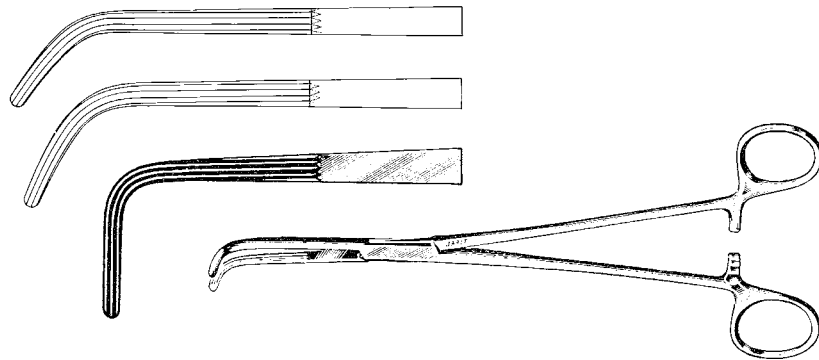
DeBAKEY-COLLIER Artery Forceps

- 305-367** 8" (20.3cm), horizontal serrations
- 305-368** 10" (25.4cm), longitudinal serrations
- 305-369** 14" (35.6cm), horizontal serrations

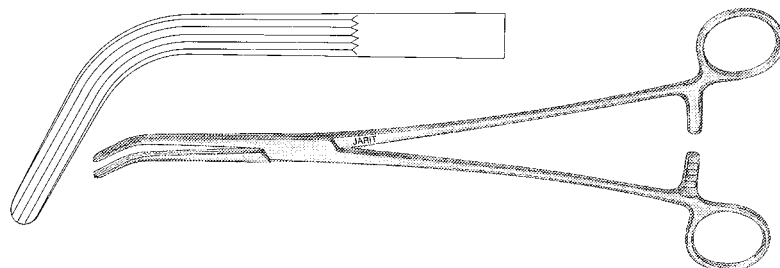


LAHEY Thoracic Forceps

- 305-370** 9" (22.9cm), full curved
- 305-372** 9" (22.9cm), full curved, delicate
- 305-373** 8 $\frac{1}{2}$ " (21.9cm), 90° angle, delicate

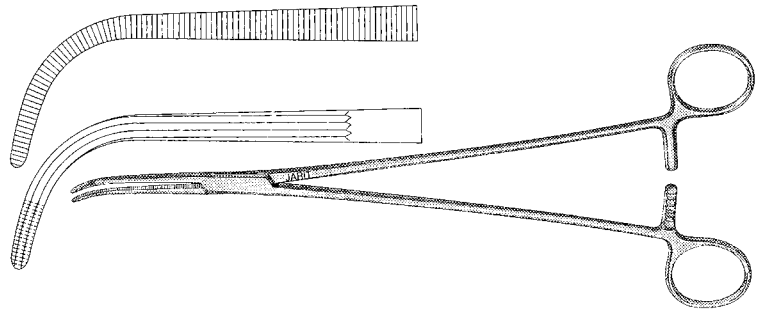


- 305-380** **MIXTER** Forceps,
10 $\frac{1}{2}$ " (26.7cm), full curved



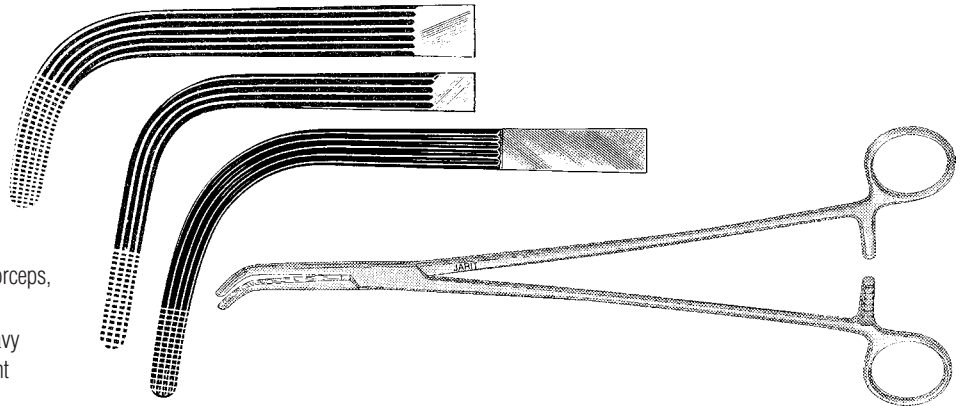
MIXTER Forceps,
10 $\frac{3}{4}$ " (27.3cm), delicate

- 305-385** Horizontal serrations
- 305-386** Longitudinal serrations

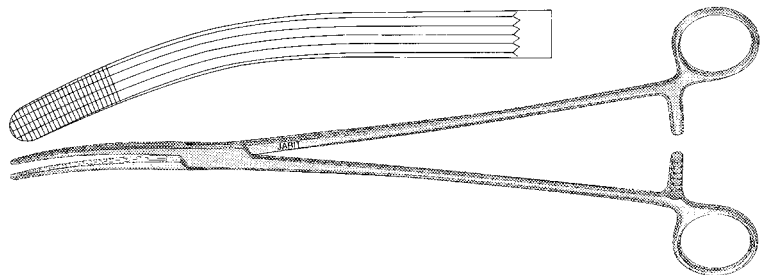


HARRINGTON Forceps,
right angled

- 305-390** 11 $\frac{1}{2}$ " (29.2cm), heavy
- 305-395** 12 $\frac{1}{2}$ " (31.8cm), light
- 305-396** 14" (35.6cm), light

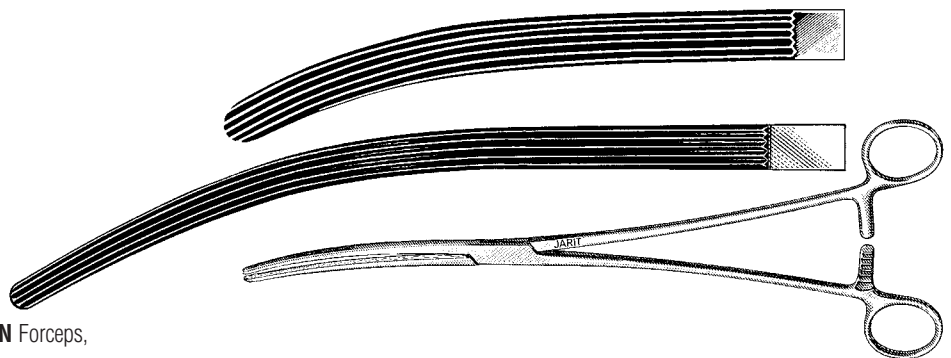


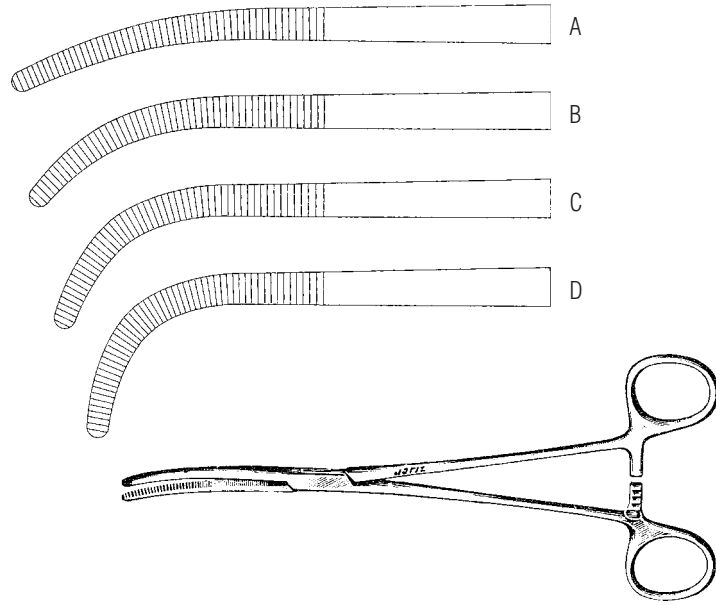
- 305-397** **CARMALT** Forceps,
12" (30.5cm), curved,
jaw length 2 $\frac{3}{4}$ " (7cm)



ROCHESTER-PEAN Forceps,
curved

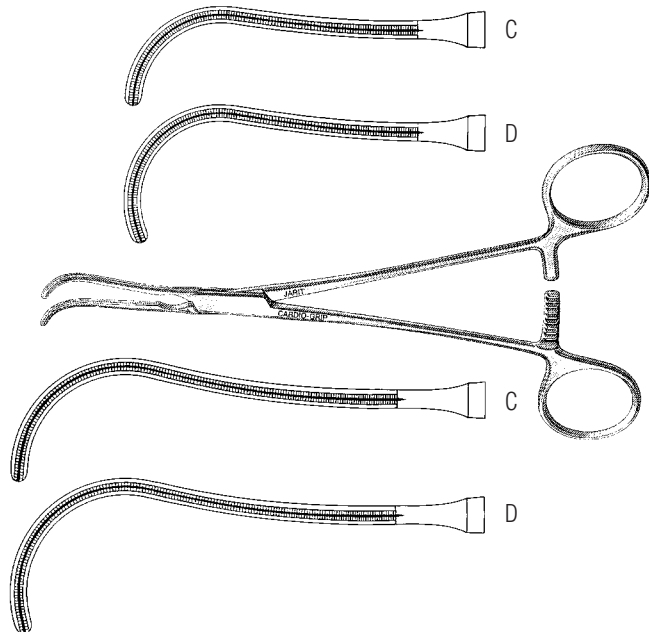
- 305-398** 12" (30.5cm), jaw length 3 $\frac{1}{2}$ " (8.9cm)
- 305-399** 14" (35.6cm), jaw length 4 $\frac{1}{2}$ " (11cm)





RUMEL Dissecting Forceps,
9" (22.9cm)

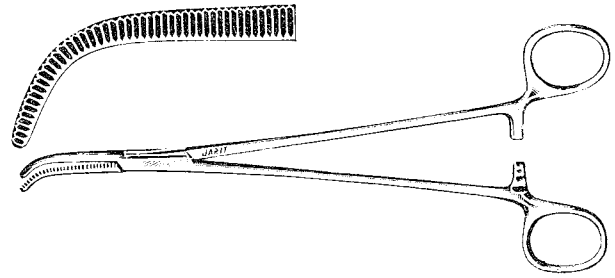
- 305-400 "A" curve
- 305-401 "B" curve
- 305-402 "C" curve
- 305-403 "D" curve



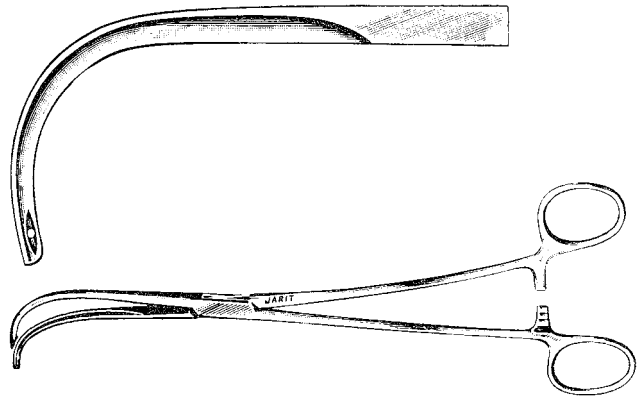
DeBAKEY Thoracic Dissecting Forceps,
CARDIO-GRIP Serrations

- 305-405 8¼" (21cm), "C" curve
- 305-406 8¼" (21cm), "D" curve
- 305-407 8¾" (22.2cm), "C" curve
- 305-408 8¾" (22.2cm), "D" curve

305-431 JONES Thoracic Clamp,
9" (22.9cm)

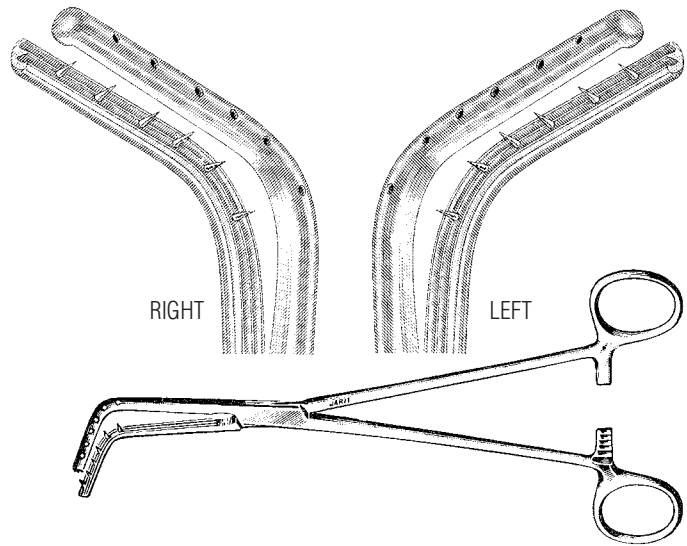


305-441 SEMB Ligature Carrying Forceps,
9" (22.9cm)

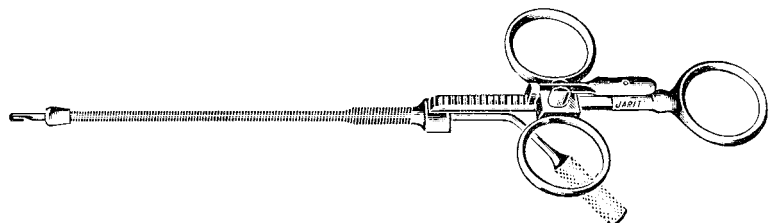


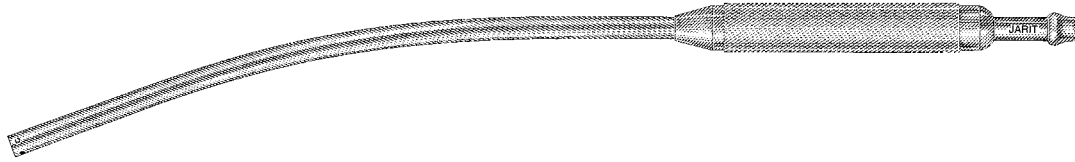
305-450 Right
305-451 Left

SAROT Bronchus Clamps,
9" (22.9cm), 1½" (38mm) jaws

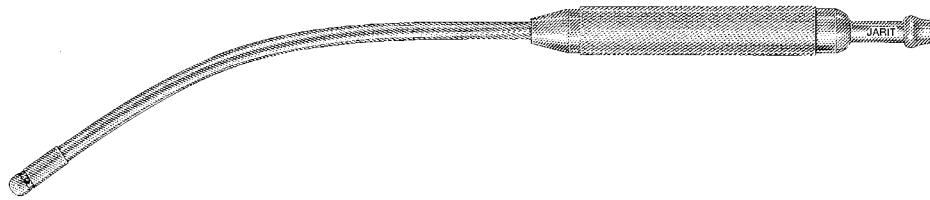


RUMEL Tourniquets
305-500 Adult size, 12" (30.5cm)
305-501 Child size, 8¾" (21cm)
305-498 Obturator only, adult size (Crochet Hook)
305-499 Obturator only, child size (Crochet Hook)

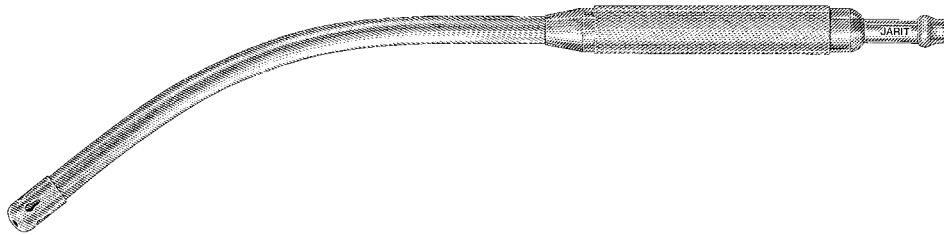




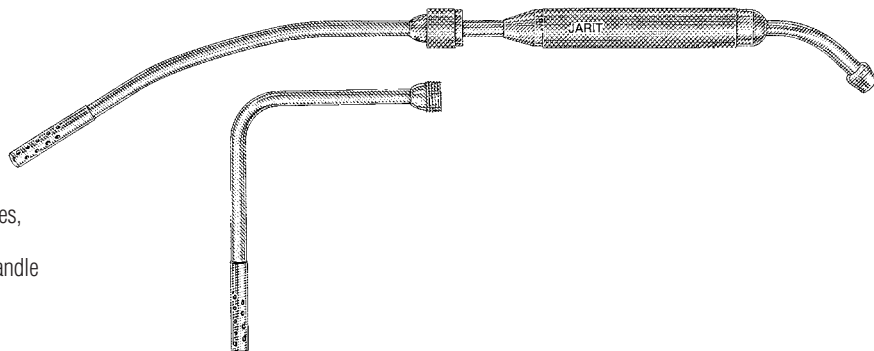
310-103 COOLEY Graft Suction Tube,
13" (33cm), 8mm wide tip



310-105 COOLEY Vascular Suction Tube,
11½" (29.2cm), 6mm wide tip



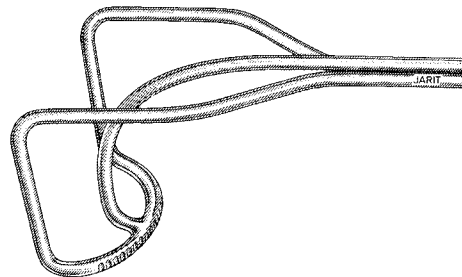
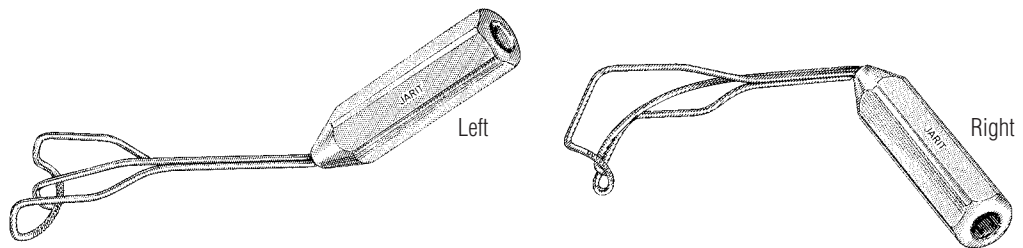
310-108 COOLEY Intracardiac Suction Tube,
11¼" (28.6cm), detachable 9mm wide tip



COOLEY Sump-Suction Tubes,
13" (33cm), 7.5mm wide tip,
entire tube removable from handle

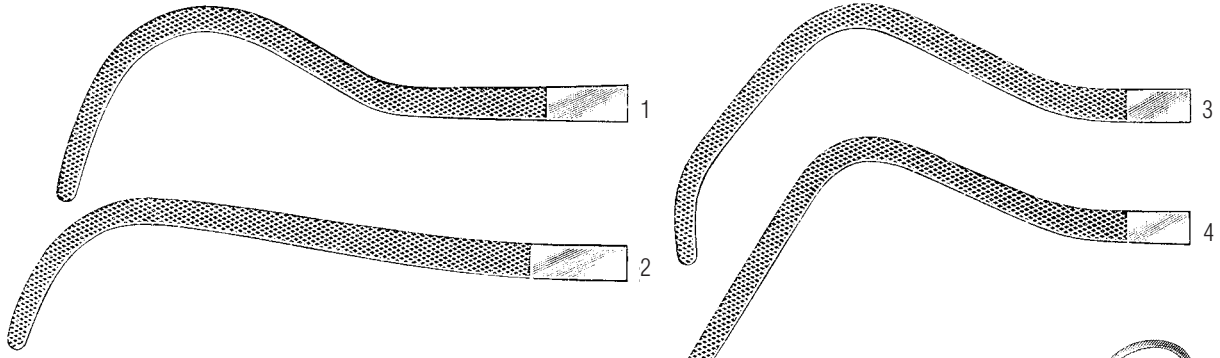
310-110 30° angle

310-112 Right angle



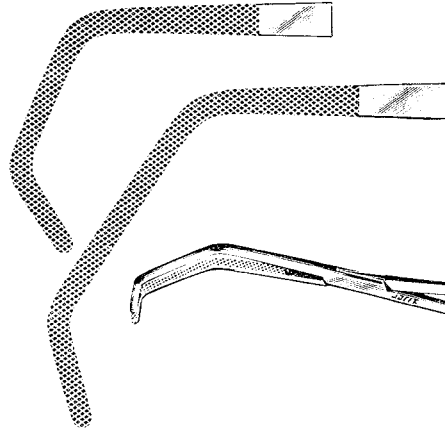
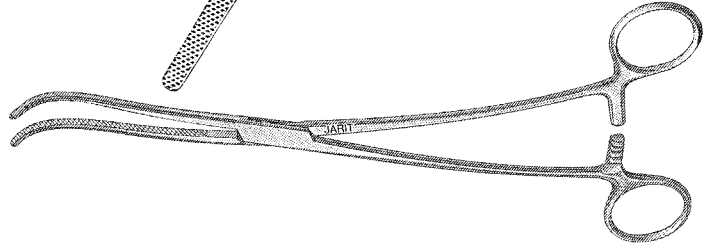
COOLEY Atrial Valve Retractors

- 310-150** Right, 25mm wide, 20mm deep
- 310-151** Right, 40mm wide, 30mm deep
- 310-152** Right, 50mm wide, 35mm deep
- 310-155** Left, 50mm wide, 10mm deep



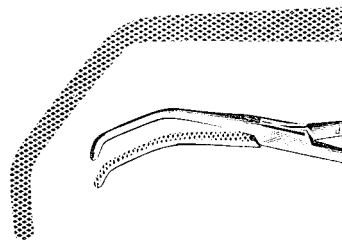
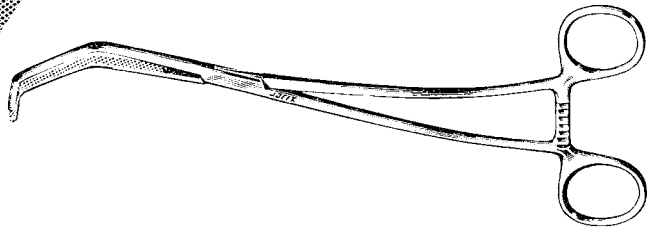
HARKEN Auricle Clamps,
9½" (24.1cm), cross-serrated

- 310-190** No. 1 curve
- 310-191** No. 2 curve
- 310-192** No. 3 curve
- 310-193** No. 4 curve

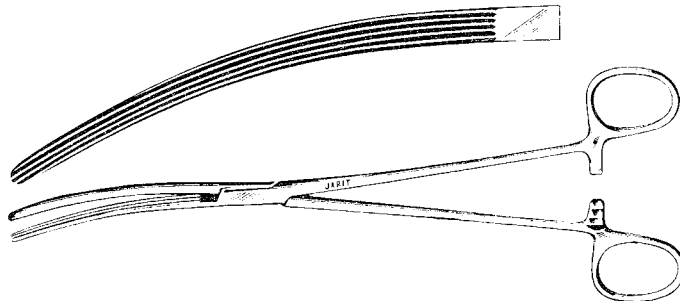
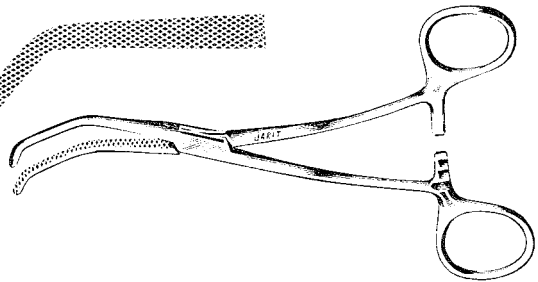


SATINSKY Vena Cava Clamps,
cross-serrated

- 310-200** 9¼" (23.5cm)
- 310-202** 10¼" (26cm)



- 310-204** **SATINSKY** Vena Cava Clamp,
6¼" (15.9cm), pediatric size,
cross-serrated



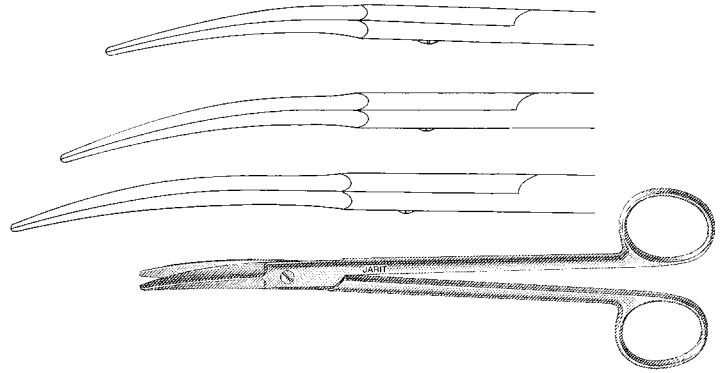
- 310-214** **CRAFOORD** Coarctation Forceps,
9¾" (24.8cm)

POTTS-SMITH Dissecting Scissors,
curved

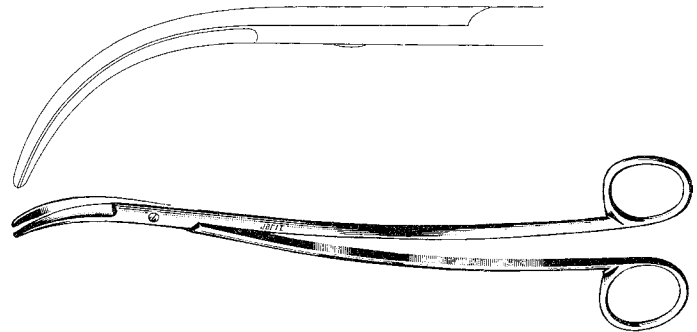
310-290 5½" (14cm)

310-291 7½" (19.1cm)

310-292 9" (22.9cm)



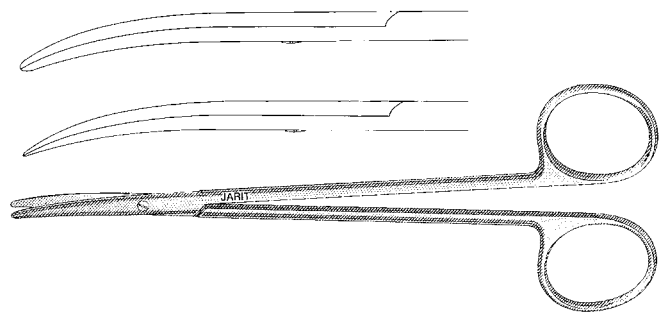
310-300 **SATINSKY** Scissors,
9¾" (24.8cm), S-curved

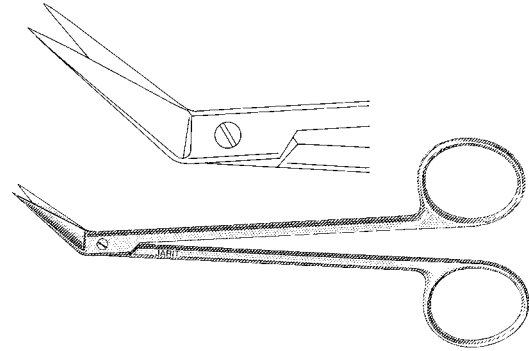


DEMARTEL Vascular Scissors,
6¾" (17.5cm), curved

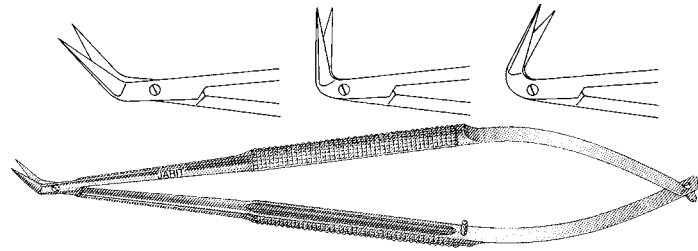
310-302 Blunt

310-303 Sharp



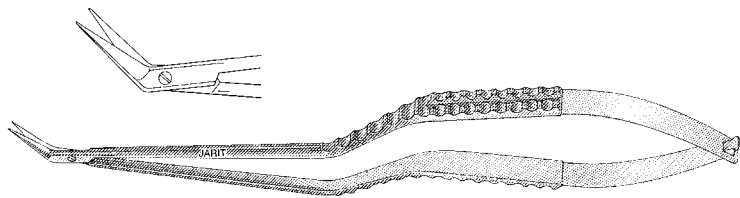


310-304 **MATTOX-POTTS** Scissors,
5½" (14cm), 45° angle



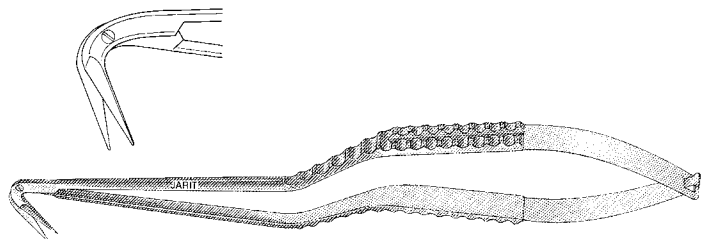
YOU-POTTS Scissors,
fine, thin 10mm blades

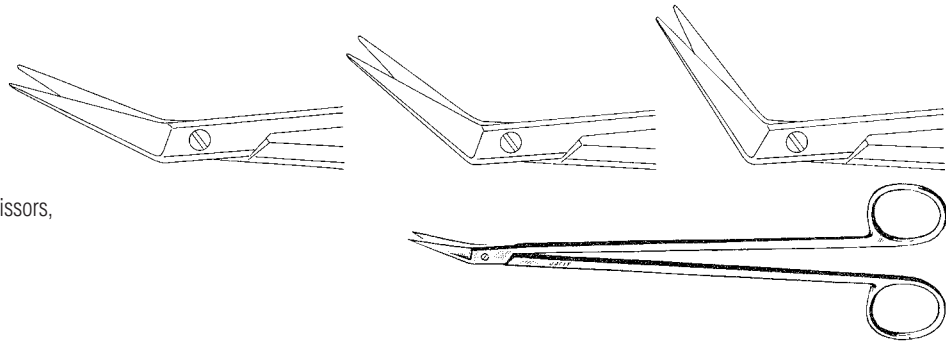
- 310-305** 7¼" (18.4cm), 45° angle
- 310-306** 7" (17.8cm), 90° angle
- 310-307** 7" (17.8cm), 120° angle



YASARGIL Scissors,
bayonet handle

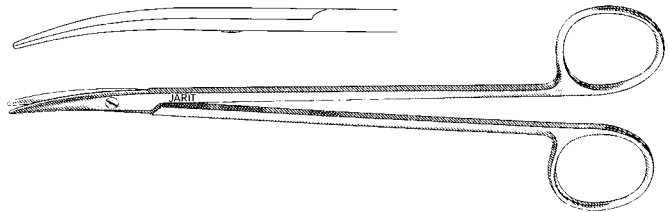
- 310-308** 7½" (19cm), 45° angle
- 310-309** 7" (17.8cm), 125° angle



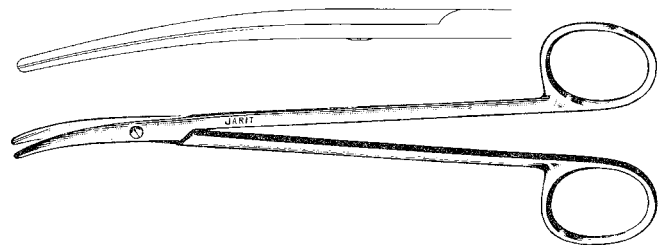


POTTS-SMITH Scissors,
7" (17.8cm)

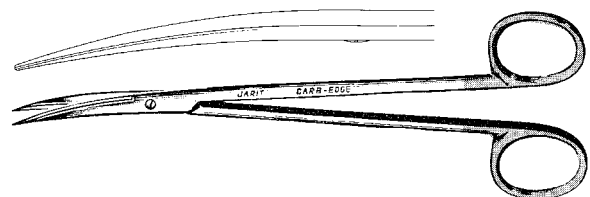
- 310-310** 25° angle
- 310-315** 45° angle
- 310-320** 60° angle



310-330 JARIT Endarterectomy Scissors,
6 1/4" (17.1cm), curved

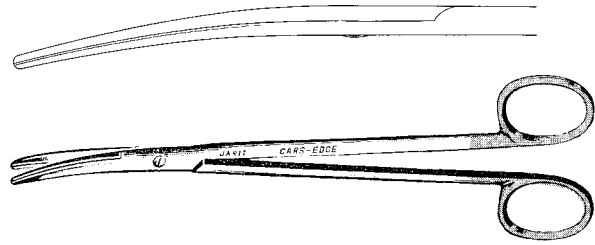


100-261 METZENBAUM Scissors,
7" (17.8cm), curved, slender, delicate



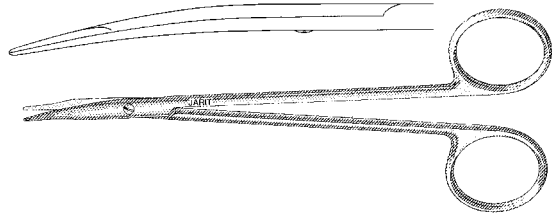
101-259 METZENBAUM CARB-EDGE Scissors,
7" (17.8cm), curved, sharp-sharp, delicate

101-261 METZENBAUM CARB-EDGE Scissors,
7" (17.8cm), curved, delicate



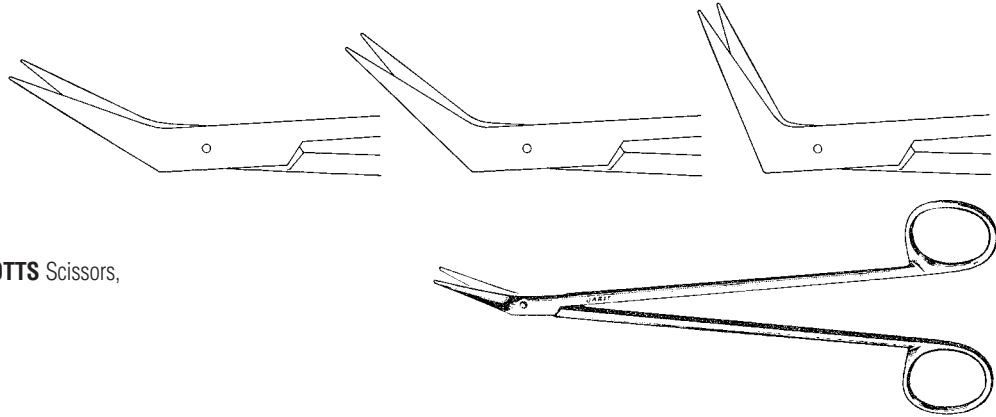
JAMISON-METZENBAUM Scissors,
narrow tip, curved

- 100-300** 6" (15.2cm)
- 100-302** 7" (17.8cm)
- 100-304** 8" (20.3cm)
- 100-306** 9" (22.9cm)



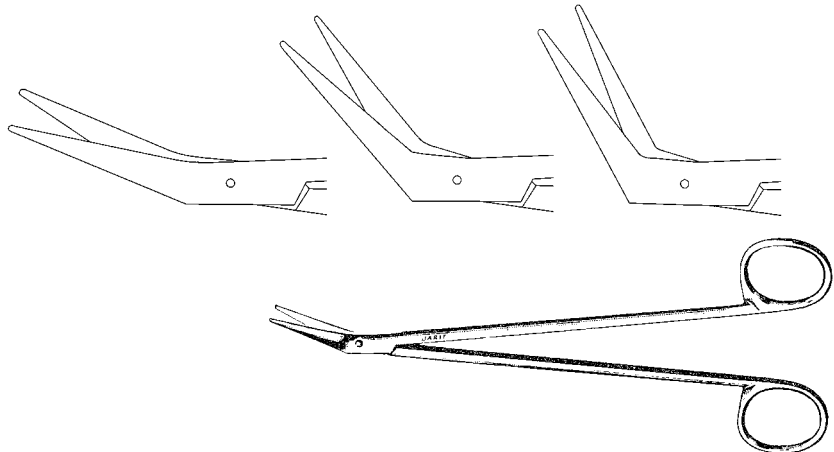
DeBAKEY-POTTS Scissors,
6 3/4" (17.1cm)

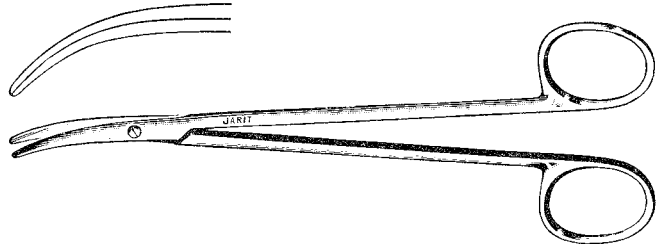
- 310-332** 25° angle
- 310-333** 45° angle
- 310-334** 60° angle



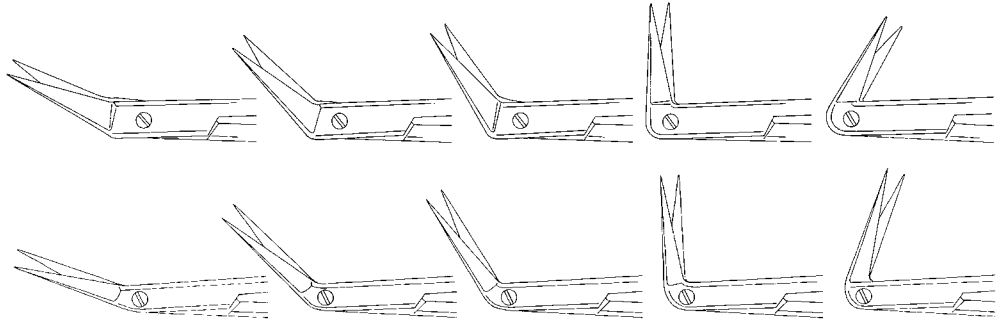
DeBAKEY Scissors

- 310-340** 7" (17.8cm), 25° angle
- 310-341** 7" (17.8cm), 45° angle
- 310-342** 7" (17.8cm), 60° angle
- 310-343** 9" (22.9cm), 25° angle
- 310-344** 9" (22.9cm), 45° angle
- 310-345** 9" (22.9cm), 60° angle
- 310-346** 11" (28cm), 25° angle
- 310-347** 11" (28cm), 45° angle
- 310-348** 11" (28cm), 60° angle





310-349 DeBAKEY Endarterectomy Scissors,
7" (17.8cm), full curve



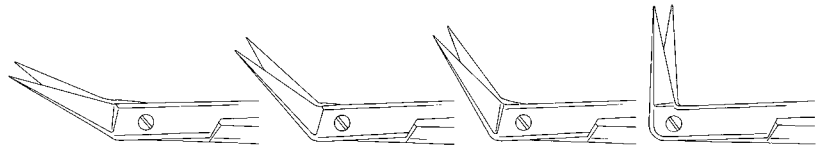
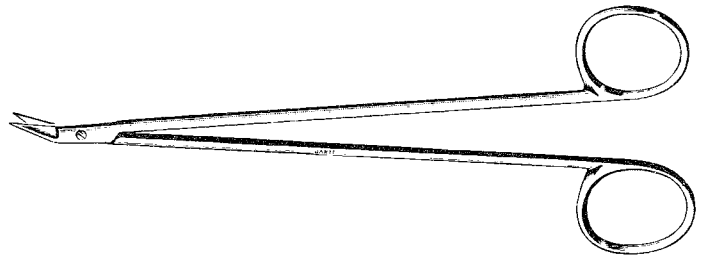
DIETHRICH Coronary Artery Scissors,
7" (17.8cm)

Delicate Blade

- 310-350** 25° angle
- 310-351** 45° angle
- 310-352** 60° angle
- 310-353** 90° angle
- 310-354** 120° angle

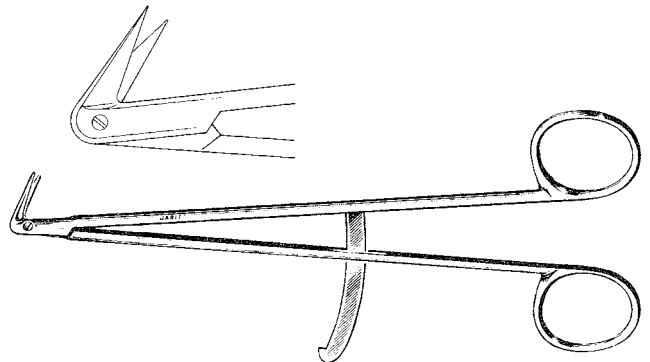
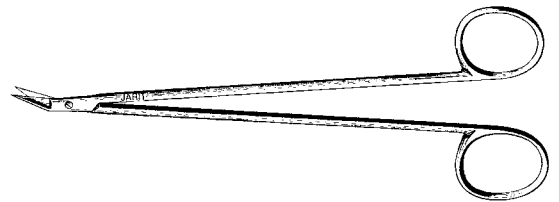
Extra Delicate Blade

- 311-350**
- 311-351**
- 311-352**
- 311-353**
- 311-354**



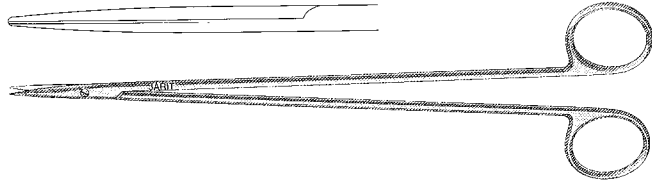
JARIT Peripheral Vascular Scissors,
5" (12.7cm)

- 310-355** 25° angle
- 310-356** 45° angle
- 310-357** 60° angle
- 310-358** 90° angle

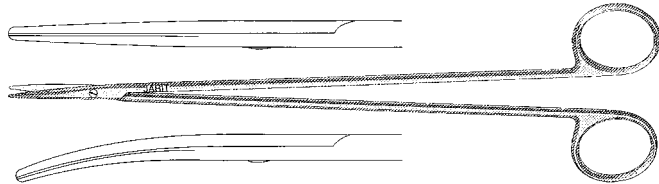


310-360 DIETHRICH Circumflex Artery Scissors,
7" (17.8cm), 130° angle,
stabilized shanks to keep blades in alignment

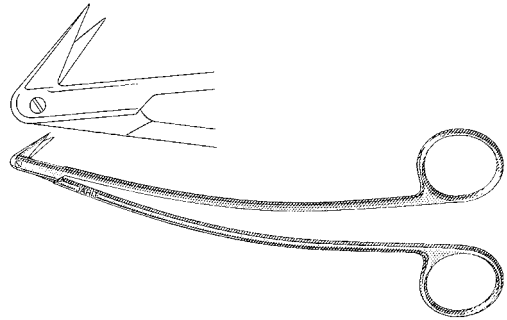
310-361 GRAHAM Scissors,
10" (25.4cm), straight



LINCOLN Scissors
310-367 10" (25.4cm), straight
310-368 10" (25.4cm), curved
310-369 6 3/4" (17.1cm), straight
310-370 6 3/4" (17.1cm), curved

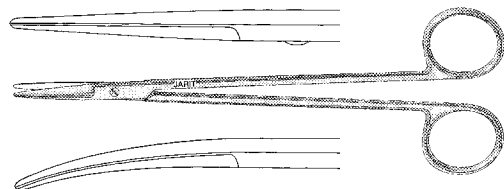


310-374 FAVALORO Coronary Scissors,
6 3/4" (17.1cm), 130° angle, curved shanks

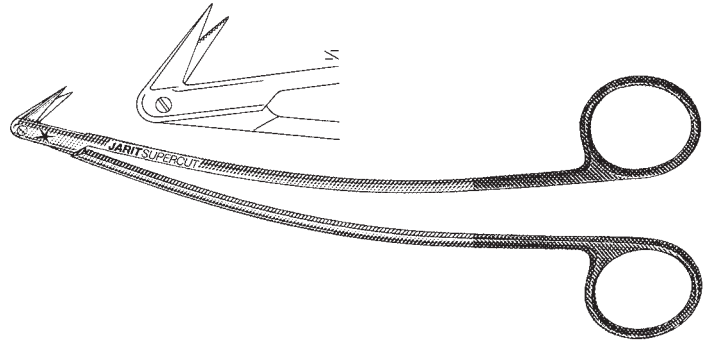
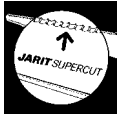


CHURCH Scissors,
7" (17.8cm)

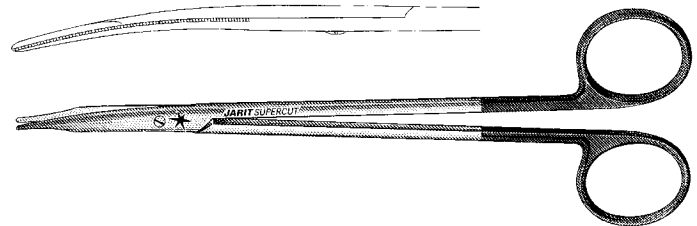
310-375 Straight
310-376 Curved



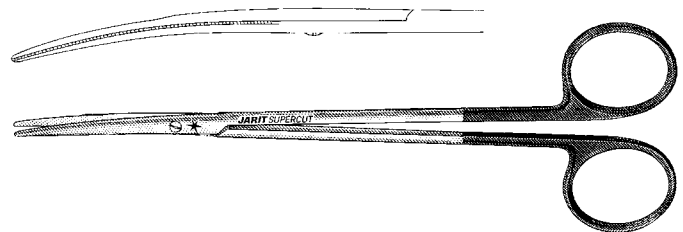
JARIT SUPERCUT VASCULAR SCISSORS



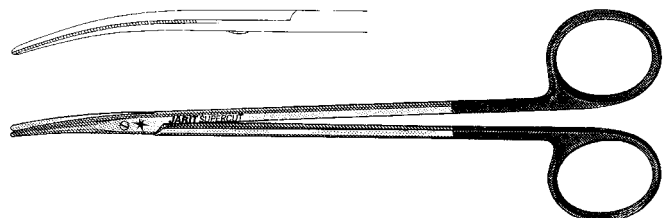
102-374 FAVALORO Scissors,
6 3/4" (17cm), 125°



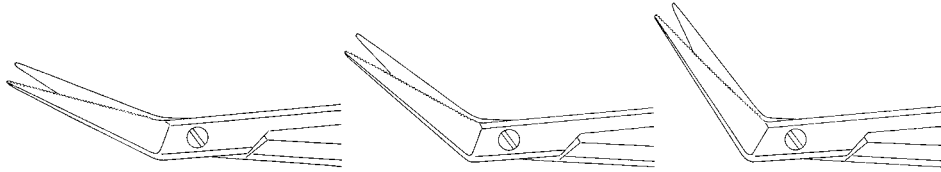
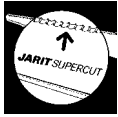
JAMISON Scissors
102-300 5 1/2" (14cm)
102-302 7" (17.8cm)



102-310 METZENBAUM Scissors,
7" (17.8cm), curved, delicate

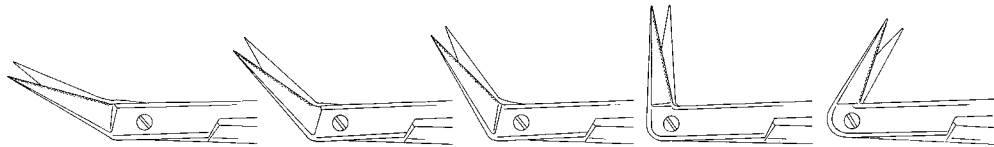
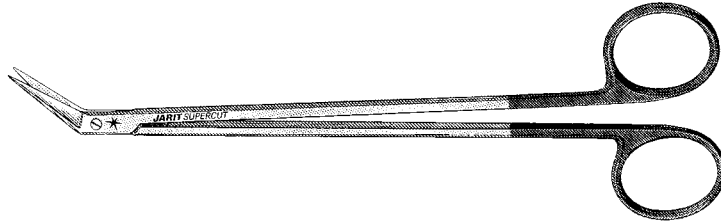


102-315 JARIT Endarterectomy Scissors,
6 1/4" (17.1cm), curved



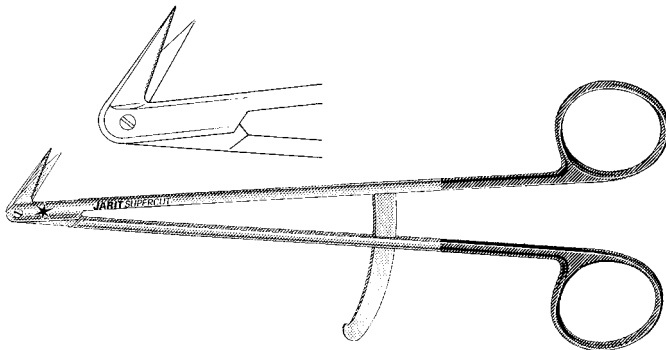
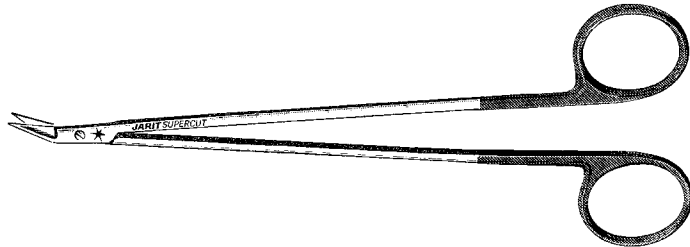
POTTS-SMITH Scissors,
7" (17.8cm)

- 102-320** 25° angle
- 102-321** 45° angle
- 102-322** 60° angle



DIETRICH Coronary Artery Scissors,
7" (17.8cm)

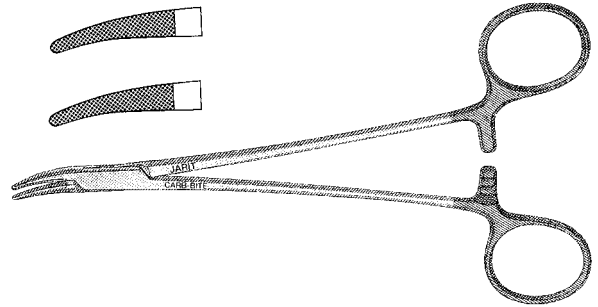
- 102-350** 25° angle
- 102-351** 45° angle
- 102-352** 60° angle
- 102-353** 90° angle
- 102-354** 120° angle



- 102-360** **DIETRICH** Coronary Artery Scissors,
7" (17.8cm), 130° angle,
shanks are stabilized to keep blades in alignment

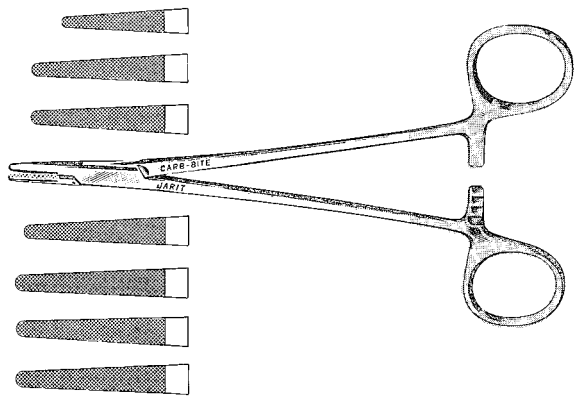
CRILE-WOOD Needle Holders,
curved jaws

- 121-126** 7" (17.8cm)
121-127 9" (22.8cm)



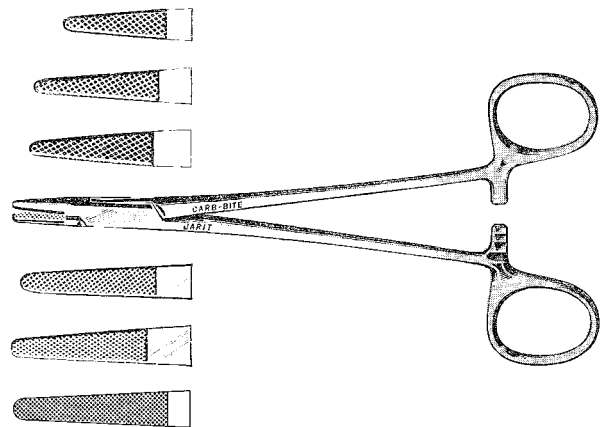
CRILE-WOOD Needle Holder

- | Satin | Matte | |
|----------------|----------------|----------------|
| 121-130 | 123-130 | 6" (15.2cm) |
| 121-131 | 123-131 | 7" (17.8cm) |
| 121-132 | 123-132 | 8" (20.3cm) |
| 121-133 | | 9" (22.8cm) |
| 121-134 | | 10 1/4" (26cm) |
| 121-129 | | 12" (30.5cm) |
| 121-128 | | 14" (35.6cm) |



MAYO-HEGAR Needle Holder

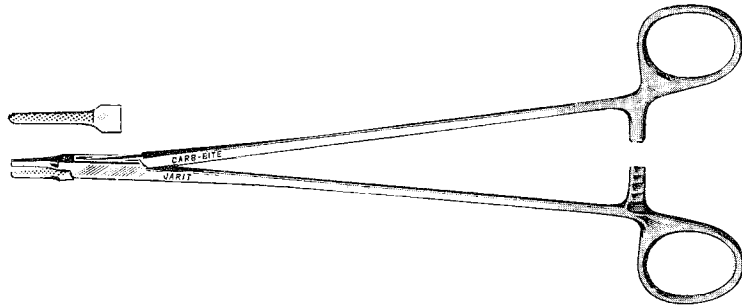
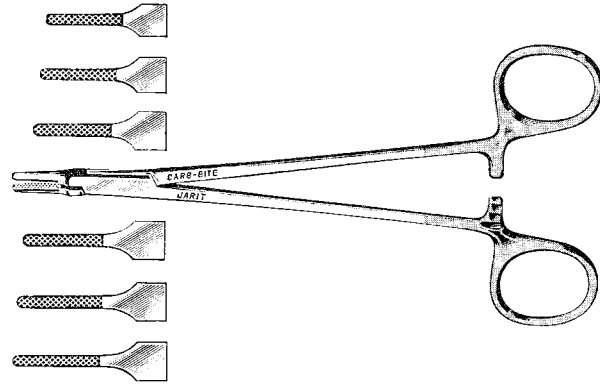
- | Satin | Matte | |
|----------------|----------------|--------------|
| 121-135 | 123-135 | 6" (15.2cm) |
| 121-140 | 123-140 | 7" (17.8cm) |
| 121-145 | 123-145 | 8" (20.3cm) |
| 121-142 | | 10" (25.4cm) |
| 121-143 | | 11" (28cm) |
| 121-146 | | 9" (22.8cm) |
| 121-147 | | 12" (30.5cm) |
| 121-144 | | 14" (35.6cm) |



JAYL CARB-BITE NEEDLE HOLDERS

RYDER Needle Holders

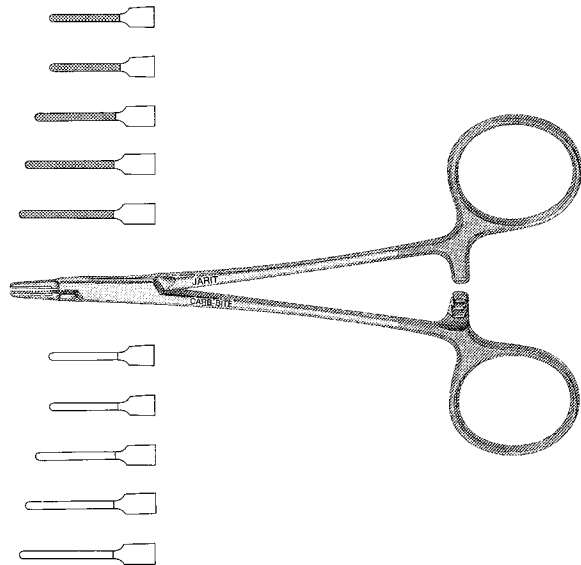
- 121-160** 5" (12.7cm)
- 121-161** 6" (15.2cm)
- 121-162** 7" (17.8cm)
- 121-163** 8" (20.3cm)
- 121-164** 9" (22.8cm)
- 121-165** 10" (25.4cm)



- 121-166 HUFNAGEL-RYDER** Needle Holder, 9" (22.8cm)

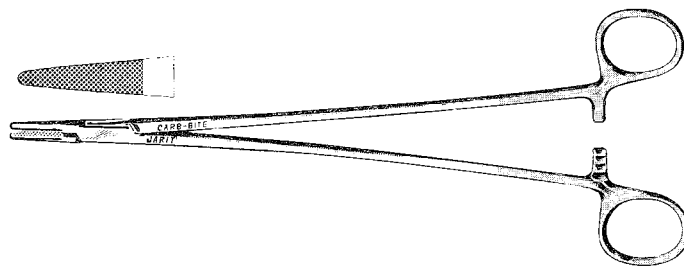
PETIT-POINT RYDER Needle Holders,
1mm CARB-BITE jaws

- 121-170** 5" (12.7cm), serrated
- 121-171** 5" (12.7cm), smooth
- 121-172** 6" (15.2cm), serrated
- 121-173** 6" (15.2cm), smooth
- 121-174** 7" (17.8cm), serrated
- 121-175** 7" (17.8cm), smooth
- 121-176** 8" (20.3cm), serrated
- 121-179** 8" (20.3cm), smooth
- 121-177** 9" (22.8cm), serrated
- 121-178** 9" (22.8cm), smooth

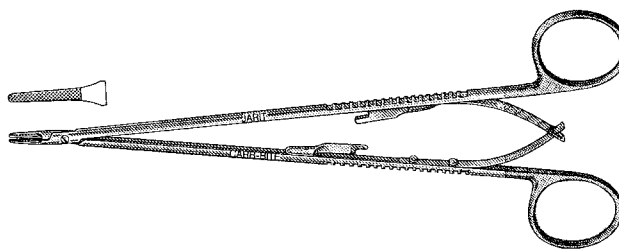


JARIT CARB-BITE NEEDLE HOLDERS

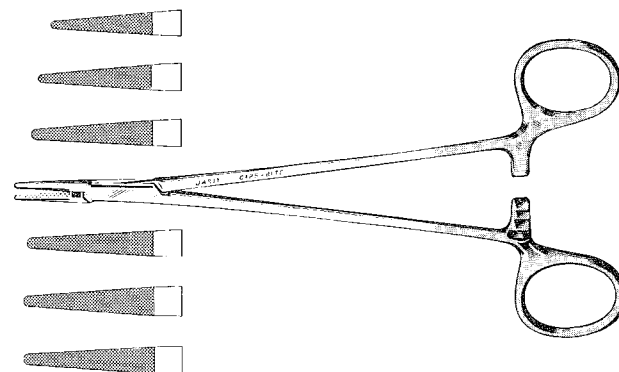
121-180 **MASSON** Needle Holder,
10½" (26.6cm)



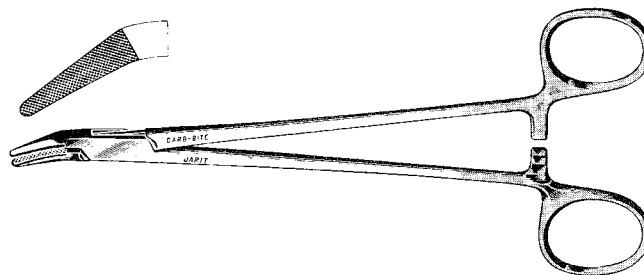
JARIT Microvascular Needle Holders
121-181 7" (17.8cm)
121-182 8" (20.3cm)
121-183 9" (22.8cm)



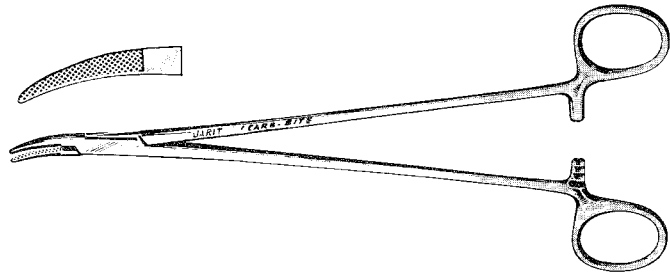
DeBAKEY Vascular Needle Holders,
extra light model
121-184 6" (15.2cm)
121-185 7" (17.8cm)
121-186 8" (20.3cm)
121-187 9" (22.8cm)
121-188 10½" (26.6cm)
121-189 12" (30.5cm)



121-192 **FINOCHIETTO** Needle Holder,
10½" (26.6cm)

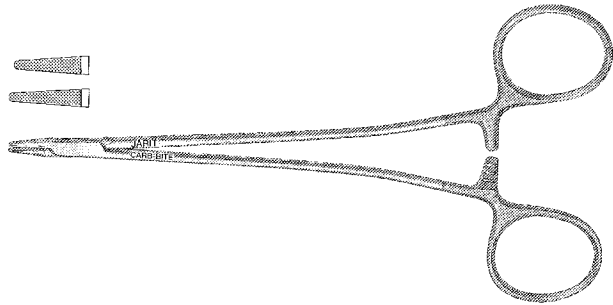


121-193 DeBAKEY Needle Holder,
9" (22.8cm), curved,
extra light model



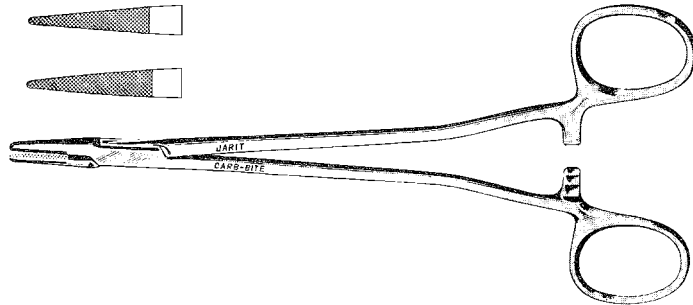
PETIT-POINT SAROT Needle Holders,
CARB-BITE jaws, delicate

121-197 6" (15.2cm)
121-198 6½" (16.8cm)



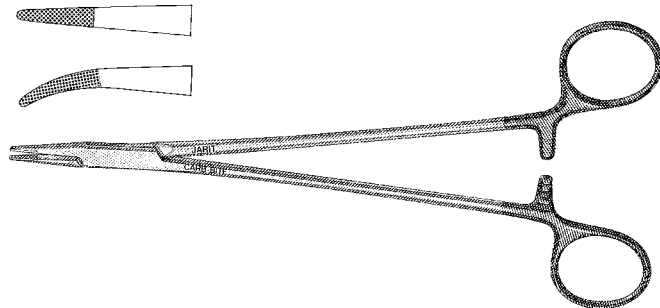
SAROT Needle Holders

121-200 7¾" (18.1cm)
121-205 10½" (25.7cm)



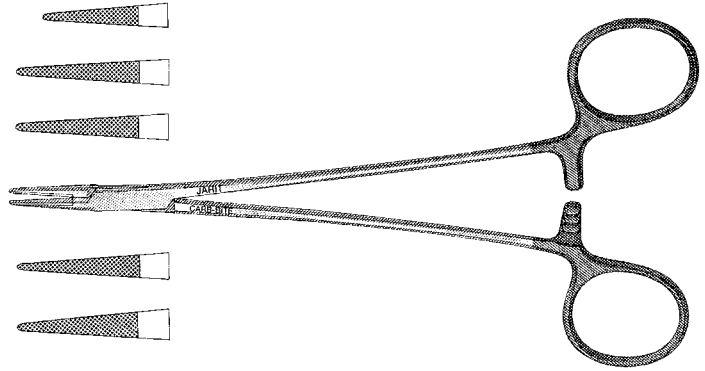
JULIAN Needle Holders,
8¼" (21cm)

121-206 Straight
121-207 Curved



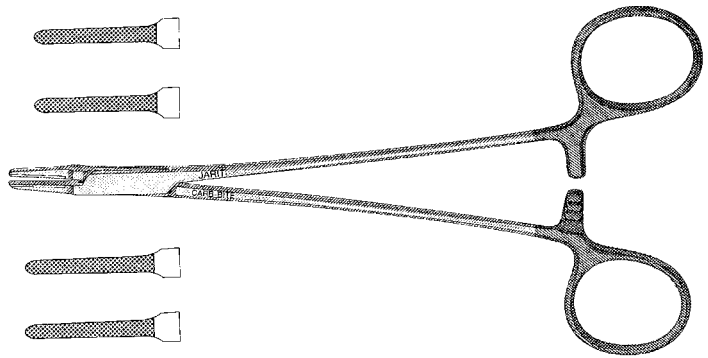
JARIT Vascular Needle Holders,
light weight, slender jaws

- 121-211** 6" (15.2cm)
- 121-212** 7½" (18.4cm)
- 121-213** 8" (20.3cm)
- 121-214** 9" (22.8cm)
- 121-215** 10" (25.4cm)



JARIT Intracardiac Needle Holders

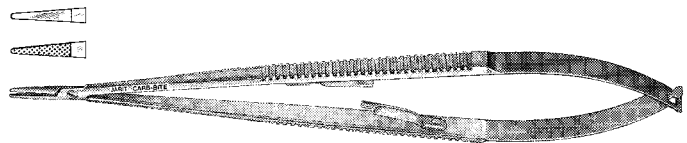
- 121-216** 7" (17.8cm)
- 121-217** 8" (20.3cm)
- 121-218** 9" (22.9cm)
- 121-219** 10¼" (26cm)



JARIT CASTROVIEJO STYLE Microsurgical Needle Holders

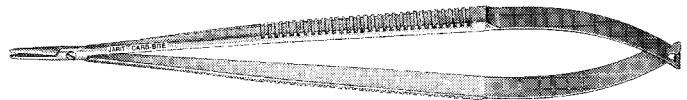
With Lock

- 121-228** 7" (17.8cm), smooth jaws
- 121-229** 7" (17.8cm), serrated jaws
- 121-230** 8½" (21.6cm), smooth jaws
- 121-231** 8½" (21.6cm), serrated jaws



Without Lock

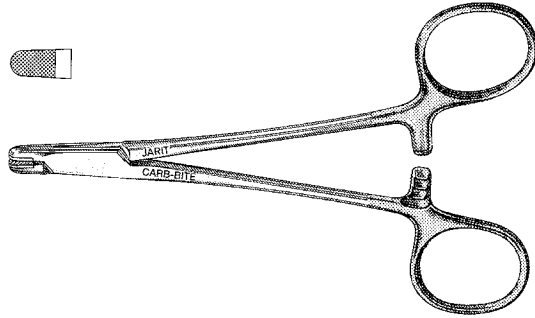
- 121-228NL** 7" (17.8cm), smooth jaws
- 121-229NL** 7" (17.8cm), serrated jaws
- 121-230NL** 8½" (21.6cm), smooth jaws
- 121-231NL** 8½" (21.6cm), serrated jaws



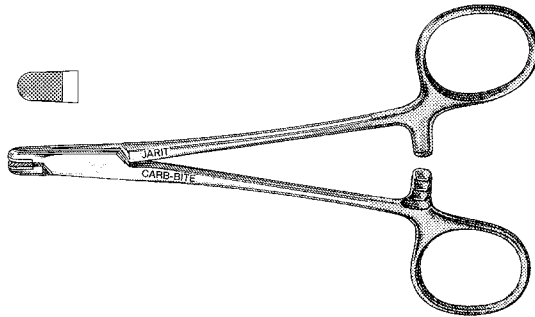


CARB-BITE NEEDLE HOLDERS AND WIRE TWISTERS

121-250 JARIT Wire Holder,
5" (12.7cm)

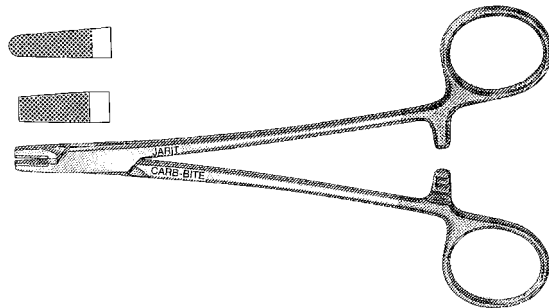


121-255 JARIT Sternal Needle Holder and Wire Twister,
7" (17.8cm)

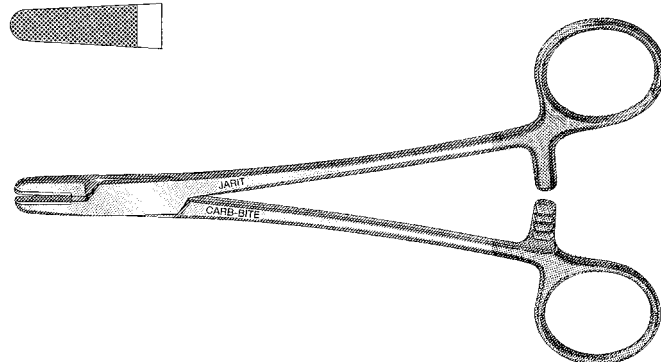


JARIT Wire Twisters,
6" (15.2cm)

- 121-257** Short delicate jaws
- 121-258** Short blunt jaws



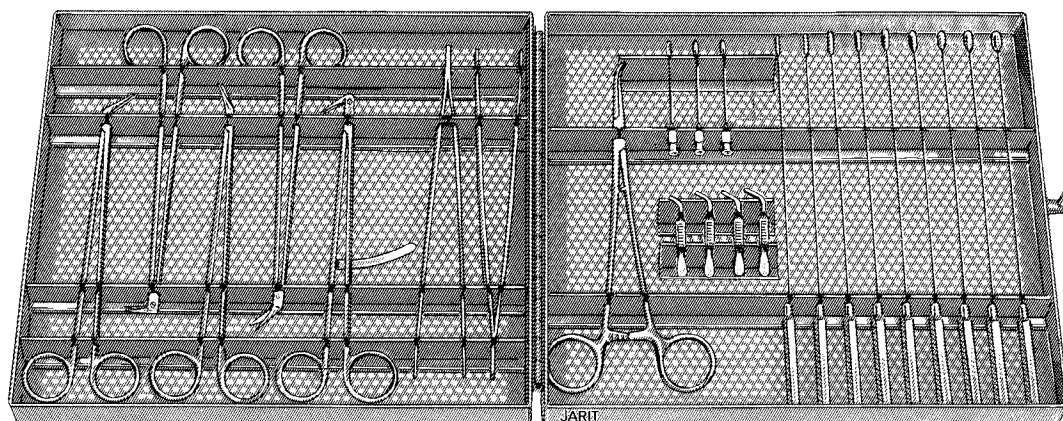
121-260 JARIT Sternal Needle Holder and Wire Twister,
7 3/4" (19.7cm), heavy duty 6mm wide jaws



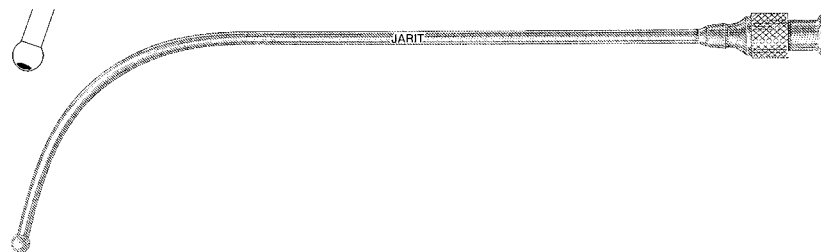
310-380 DIETHRICH Coronary Artery Bypass Kit

Includes:

- 1- **310-350** Coronary Artery Scissors, 7" (17.8cm), 25° angle
- 1- **310-351** Coronary Artery Scissors, 7" (17.8cm), 45° angle
- 1- **310-352** Coronary Artery Scissors, 7" (17.8cm), 60° angle
- 1- **310-353** Coronary Artery Scissors, 7" (17.8cm), 90° angle
- 1- **310-360** Circumflex Artery Scissors, 7" (17.8cm), 130° angle
- 1- **140-330** Gemini Clamp, 7" (17.8cm)
- 2- **320-114** DeBakey-Diethrich Coronary Artery Forceps, 7¼" (19.7cm)
- 2- **320-170** Diethrich Micro-Coronary Bulldog Clamps, 8mm
- 2- **320-172** Diethrich Micro-Coronary Bulldog Clamps, 12mm
- 3- **310-383** Heparin Flushing Needles, 2" (5.1cm)
- 1- **310-385** Set of 9 Garrett Vascular Dilators, 8¼" (21cm)
- 1- **310-381** Sterilizing Case



310-382 DeBAKEY Heparin Cannula, 6¼" (16cm), malleable, 5mm tip



310-383 HEPARIN Flushing Needle, 2" (5.1cm), malleable, 3mm tip

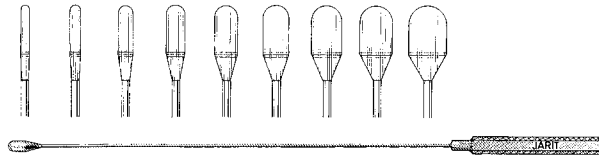


310-384 DeBAKEY Heparin Cannula, 2½" (5.4cm), malleable, 3.7mm tip



310-385 GARRETT Vascular Dilators, set of 9, 8¼" (21cm) with holder

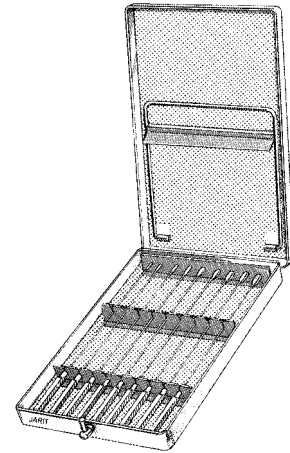
- | | |
|---------------------------|---------------------------|
| 310-386 1.0mm Size | 310-391 3.5mm Size |
| 310-387 1.5mm Size | 310-392 4.0mm Size |
| 310-388 2.0mm Size | 310-393 4.5mm Size |
| 310-389 2.5mm Size | 310-394 5.0mm Size |
| 310-390 3.0mm Size | |



310-395 GARRETT Vascular Dilators, set of 9, 5½" (14cm) with holder

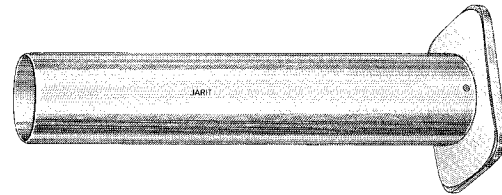
- | | |
|---------------------------|---------------------------|
| 310-396 1.0mm Size | 310-401 3.5mm Size |
| 310-397 1.5mm Size | 310-402 4.0mm Size |
| 310-398 2.0mm Size | 310-403 4.5mm Size |
| 310-399 2.5mm Size | 310-404 5.0mm Size |
| 310-400 3.0mm Size | |

310-405 GARRETT Dilator Sterilizing Case (Not Included with Set)



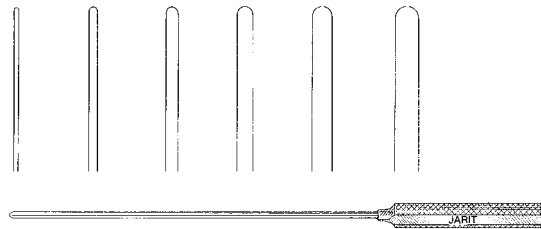
GARRETT Dilator Holders

- | |
|---------------------------|
| 310-406 8¼" (21cm) |
| 310-407 5½" (14cm) |



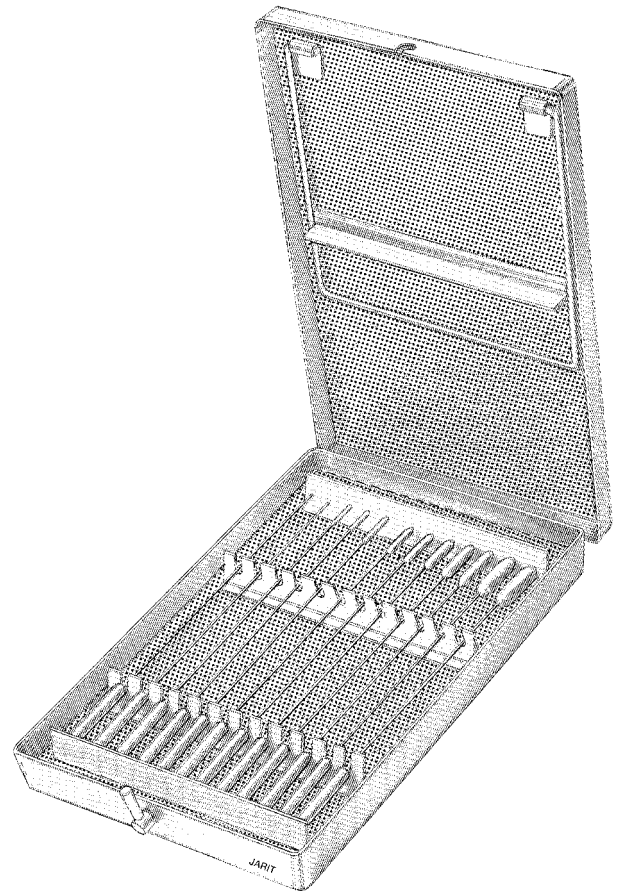
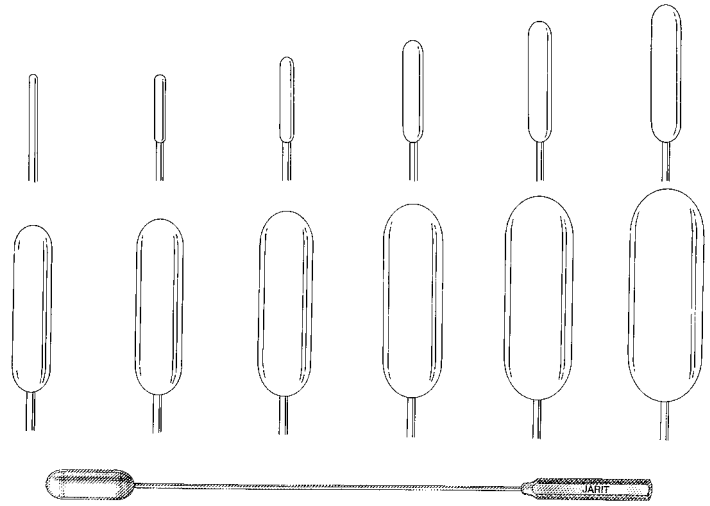
310-410 COOLEY Vascular Dilators, set of 6, 5½" (13cm), malleable silver shaft

- | |
|---------------------------|
| 310-411 0.5mm Size |
| 310-412 1.0mm Size |
| 310-413 1.5mm Size |
| 310-414 2.0mm Size |
| 310-415 2.5mm Size |
| 310-416 3.0mm Size |



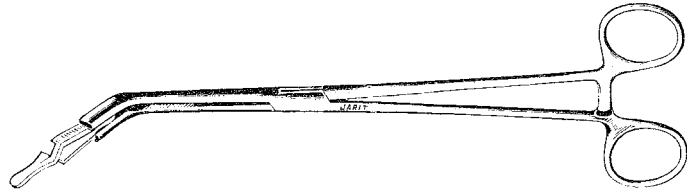
310-450 DeBAKEY Vascular Dilators,
set of 12, 7½" (19cm)

- | | |
|---------------------------|---------------------------|
| 310-451 1.0mm Size | 310-457 5.0mm Size |
| 310-452 1.5mm Size | 310-458 6.0mm Size |
| 310-453 2.0mm Size | 310-459 7.0mm Size |
| 310-454 2.5mm Size | 310-460 8.0mm Size |
| 310-455 3.0mm Size | 310-461 9.0mm Size |
| 310-456 4.0mm Size | 310-462 10mm Size |



310-465 DeBAKEY Dilator Sterilizing Case
(Not Included with Set)

310-430 BULLDOG Clamp Applier,
9" (22.9cm)



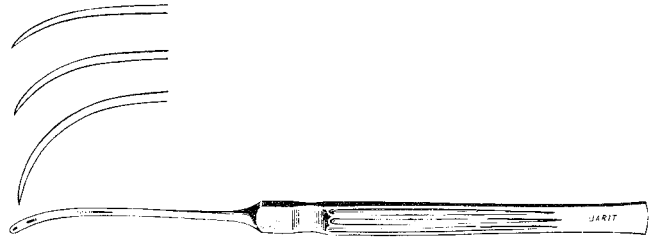
JOHNS HOPKINS Bulldog Clamps

Straight	Curved	
310-431	310-440	1½" (3.8cm)
310-432	310-441	2" (5.1cm)
310-433	310-442	2¼" (5.7cm)
310-436	310-445	3" (7.6cm)



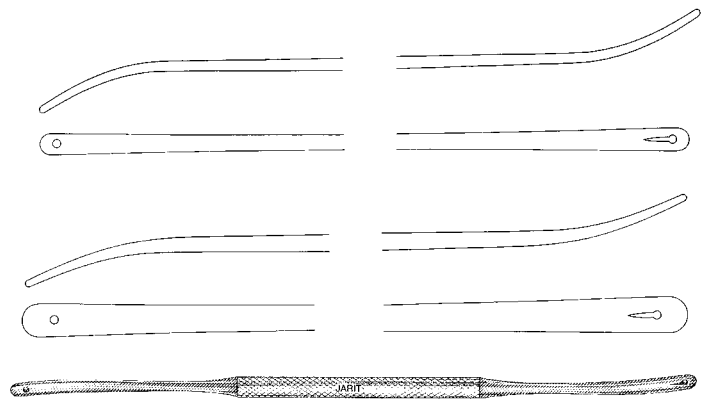
LEMMON Intima Dissectors,
6½" (16.5cm)

- 310-480** Slight curve
- 310-481** Medium curve
- 310-482** Full curve



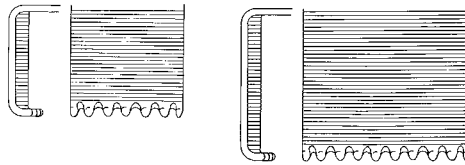
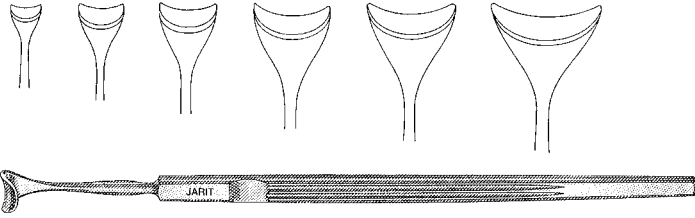
OLIVECRONA Dissectors,
double-ended

- 310-485** 7¼" (18.4cm), delicate
- 310-486** 9½" (24.1cm), delicate
- 310-487** 7¾" (19.7cm), heavy
- 310-488** 9½" (24.1cm), heavy

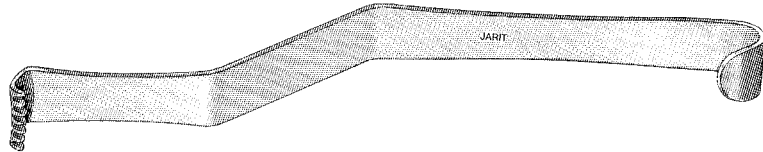


DESMARRES-Type Valve Retractors,
 7¼" (18.4cm), malleable

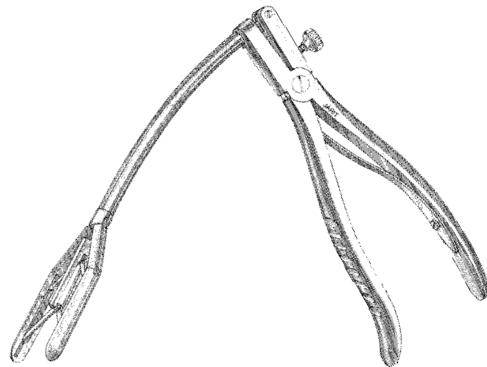
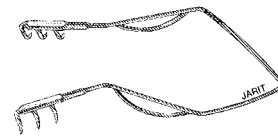
- 310-490** 4mm wide
- 310-491** 6mm wide
- 310-492** 8mm wide
- 310-493** 10mm wide
- 310-494** 12mm wide
- 310-495** 15mm wide


CRAWFORD Aortic Retractors,
 8" (20.3cm)

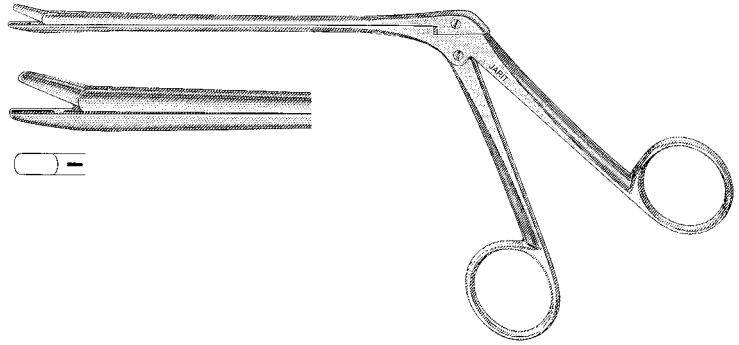
- 310-500** Small: 1.5 x 1.5cm deep
- 310-502** Large: 2.2 x 2.0cm deep


PARSONNET Epicardial Retractor,
 3 x 3 sharp prongs

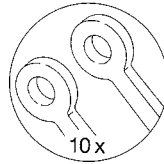
- 310-508** 1" (25mm)
- 310-507** 1½" (32mm)
- 310-506** 1½" (38mm)
- 310-505** 1¾" (48mm)



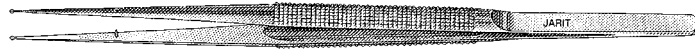
- 310-520** **TUBBS** Mitral Valve Dilator,
 maximum blade opening 1¾" (4.5cm)



310-522 BAILEY Aortic Valve Rongeur,
4½" (11.4cm) shaft, straight, 3mm bite



310-528 MILLS Coronary Mammary Tissue Forceps,
7 $\frac{1}{4}$ " (18.1cm), 0.5mm ring tip

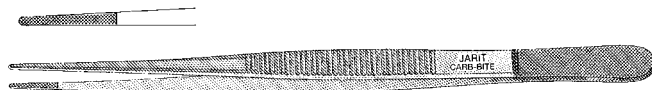


WHEELER-Type Plaque and Vessel Forceps,
CARDIO-GRIP serrations

- 130-296** 5 $\frac{1}{2}$ " (14cm)
- 130-297** 7 $\frac{1}{4}$ " (18.4cm)
- 130-298** 8 $\frac{3}{4}$ " (22.3cm)

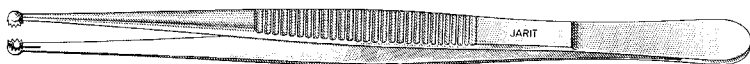


130-437 REUL Coronary Tissue Forceps,
8" (20.3cm), delicate,
CARB-BITE tips, 1.8mm wide



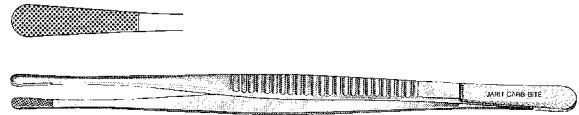
SELMAN Tissue Forceps,
round cup with teeth

- 135-252** 6" (15.2cm)
- 135-253** 8" (20.3cm)
- 135-254** 10" (25.4cm)



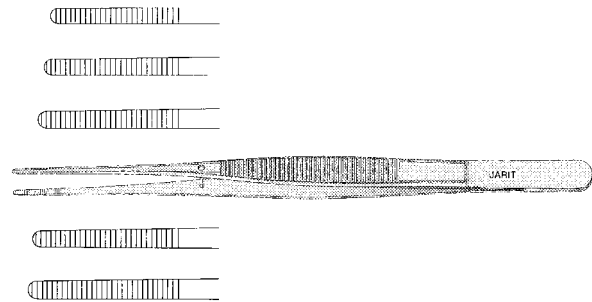
WANGENSTEEN Tissue Forceps,
CARB-BITE tips

- 135-256** 6" (15.2cm)
- 135-257** 9" (22.8cm)
- 135-258** 10" (25.4cm)



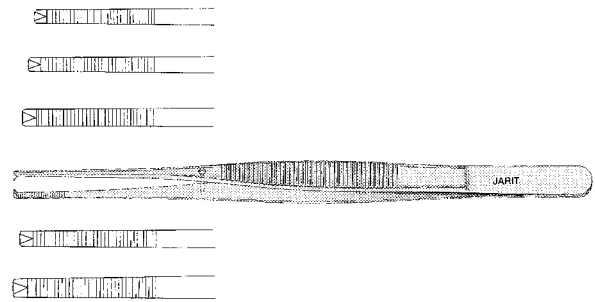
POTTS-SMITH Dressing Forceps,
serrated

- 130-350** 7" (17.8cm)
- 130-355** 8 1/4" (21cm)
- 130-360** 9 1/2" (24.1cm)
- 130-367** 10 1/4" (26cm)
- 130-365** 12" (30.5cm)



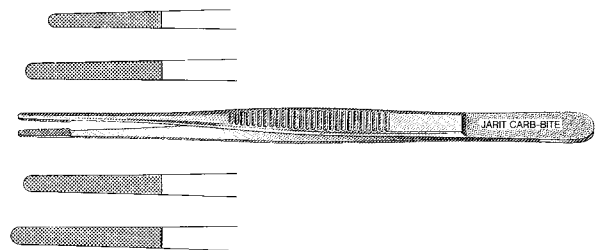
POTTS-SMITH Tissue Forceps,
1 x 2 teeth, serrated

- 130-352** 7" (17.8cm)
- 130-357** 8 1/4" (21cm)
- 130-362** 9 1/2" (24.1cm)
- 130-368** 10 1/4" (26cm)
- 130-366** 12" (30.5cm)

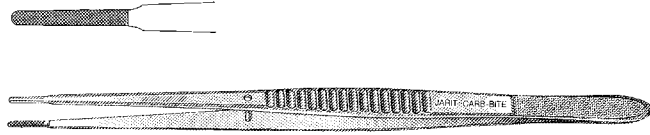


POTTS-SMITH Tissue Forceps,
CARB-BITE tips

- 130-353** 7" (17.8cm)
- 130-358** 8 1/4" (21cm)
- 130-363** 9 1/2" (24.1cm)
- 130-369** 10 1/4" (26cm)



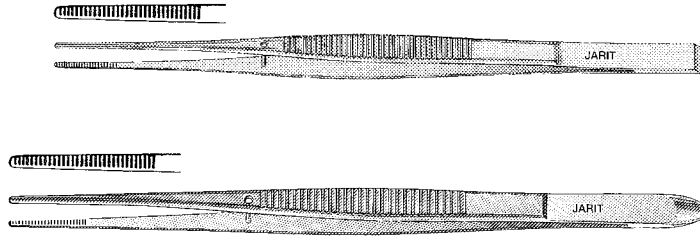
130-383 **EVANS** Tissue Forceps,
10" (25.4cm), CARB-BITE tips



CUSHING Dressing Forceps,
straight, serrated, scraper end

130-400 7" (17.8cm)

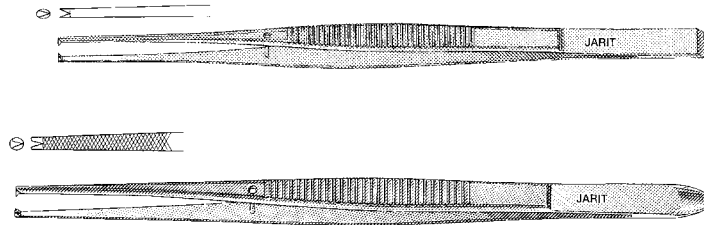
130-445 8" (20.3cm)



CUSHING Tissue Forceps,
straight, 1 x 2 teeth, scraper end

130-405 7" (17.8cm)

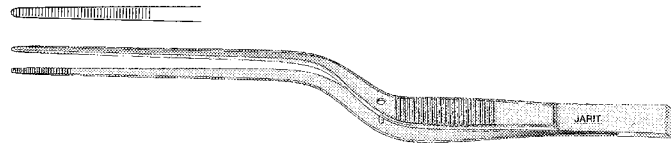
130-446 8" (20.3cm), cross serrated



CUSHING Dressing Forceps,
bayonet, serrated, scraper end

130-410 7 1/4" (18.4cm)

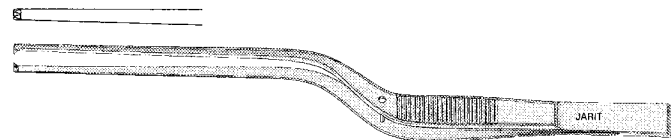
130-420 7 3/4" (19.7cm)



CUSHING Tissue Forceps,
bayonet, 1 x 2 teeth, scraper end

130-415 7 1/4" (18.4cm)

130-421 7 3/4" (19.7cm)



CUSHING Tissue Forceps,
Gutsch handle, straight, scraper end

- 130-425** 7" (17.8cm), serrated
- 130-430** 7" (17.8cm), 1 x 2 teeth
- 130-435** 7" (17.8cm), 1 x 2 teeth, serrated

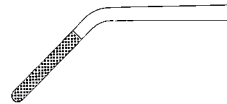


CUSHING Needle Forceps,
straight, CARB-BITE tips,
Gutsch handle, scraper end

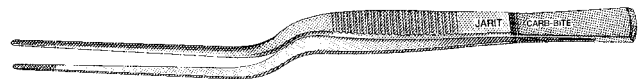
- 122-530** 7" (17.8cm)
- 122-535** 7" (17.8cm), delicate



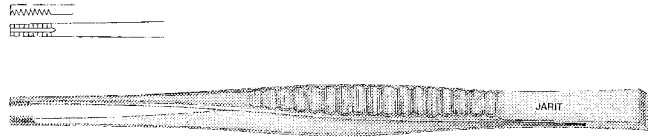
- 130-417** **CUSHING** Tissue Forceps,
7" (17.8cm), angled, CARB-BITE tips,
Gutsch handle, scraper end



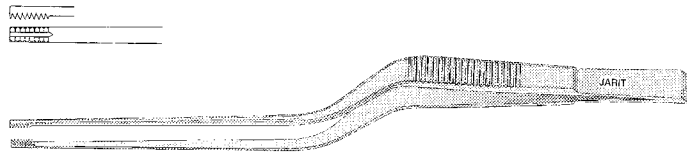
- 130-418** **CUSHING** Tissue Forceps,
7 3/4" (19.7cm), bayonet,
CARB-BITE tips, scraper end



130-440 CUSHING-BROWN Tissue Forceps,
7" (17.8cm), straight, double row
of 9 x 9 delicate teeth, scraper end

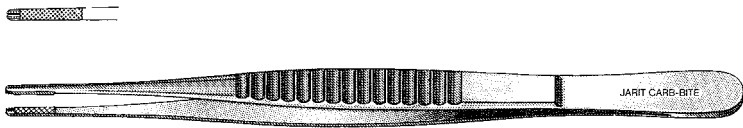


130-442 CUSHING-BROWN Tissue Forceps,
7 1/4" (18.4cm), bayonet, double row
of 9 x 9 delicate teeth, scraper end



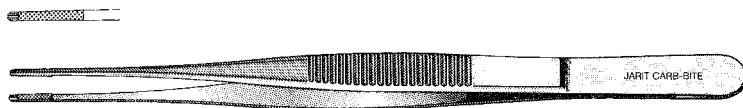
DeBAKEY CARB-BITE Needle Forceps,
2 x 4 teeth, 2.0mm tips

- 122-540** 6" (15.2cm)
- 122-542** 7 3/4" (19.7cm)
- 122-544** 9 1/2" (24.1cm)

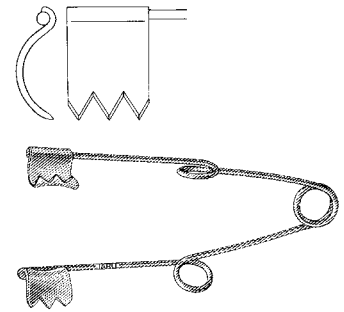


DeBAKEY CARB-BITE Needle Forceps,
2 x 4 teeth, 1.5mm tips

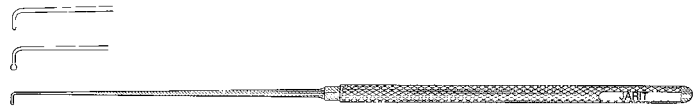
- 122-541** 6" (15.2cm)
- 122-543** 7 3/4" (19.7cm)
- 122-545** 9 1/2" (24.1cm)



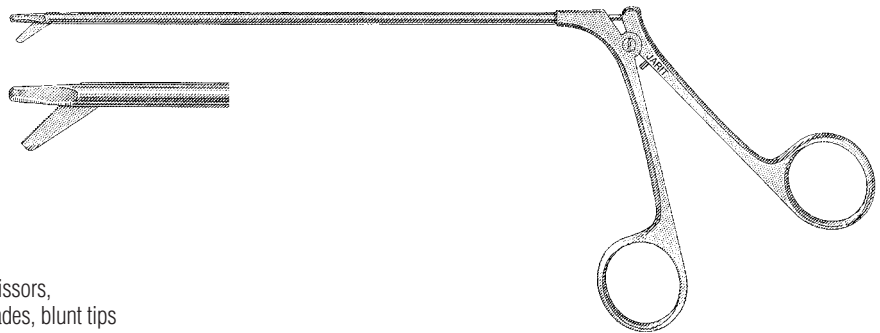
310-530 **JARIT** Deep Arteriotomy Spring Retractor,
3 $\frac{3}{4}$ " (8.6cm)



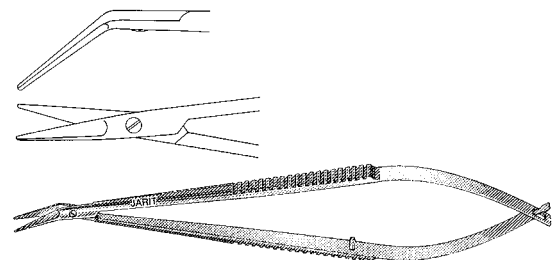
BLUNT Hook,
7" (17.8cm)
310-532 2mm round tip
310-533 3mm ball tip



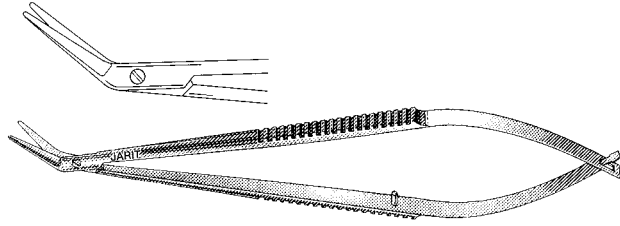
310-535 **KARMODY** In-Situ Valve Scissors,
6 $\frac{1}{4}$ " (16cm) shaft, serrated blades, blunt tips



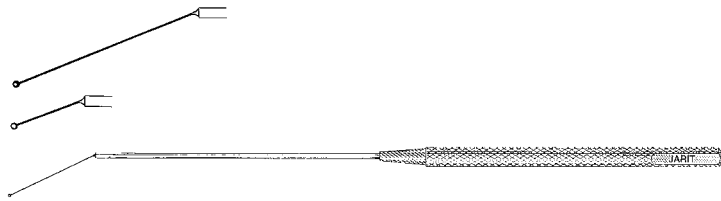
310-540 **VALVE** Leaflet Excision Scissors,
4 $\frac{1}{4}$ " (10.8cm), 45° angled on flat



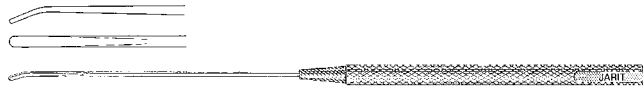
310-542 **POTTS** Finger Arteriotomy Scissors,
5 1/4" (13.4cm), 45° angled to side



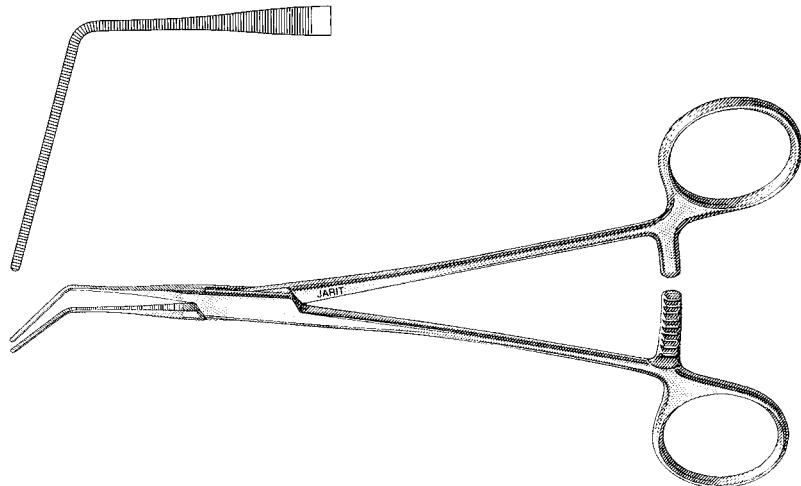
BALL Nerve Hook
310-544 7 1/4" (19.7cm), 25mm angled tip
310-545 7 1/4" (18.4cm), 10mm angled tip



310-547 **MILLS** Endarterectomy Spatula,
6 1/2" (17.5cm), 1.8mm wide blade

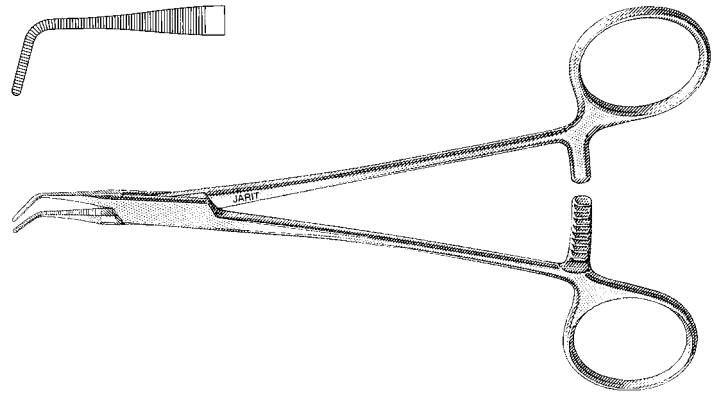


310-549 **JARIT** Long Plaque Retriever,
7 1/2" (19cm), 3.7cm angled jaws

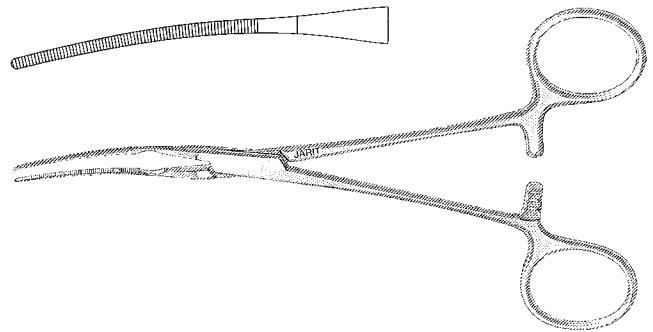




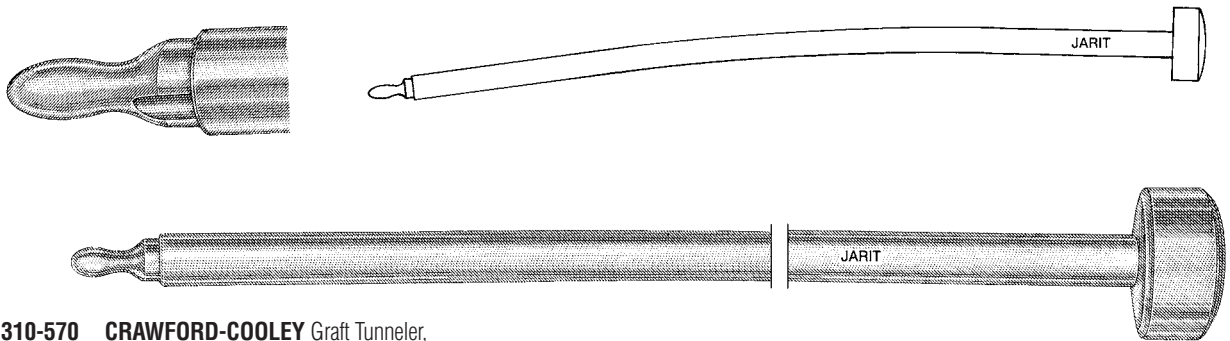
CORONARY BYPASS and TUNNELERS



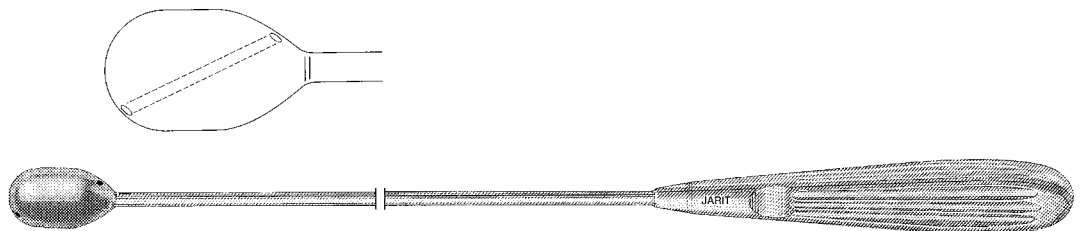
310-550 JARIT Short Plaque Retriever,
7 1/4" (18.4cm), 2.7cm angled jaws



310-551 JARIT Mini Plaque Retriever,
6 1/2" (16.5cm), 5cm curved jaws



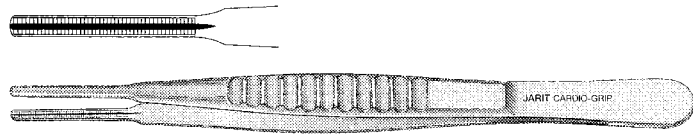
310-570 CRAWFORD-COOLEY Graft Tuner,
18" (45.7cm), light curve,
12mm inside diameter



310-580 DeBAKEY Femoral Bypass Tuner,
20 1/8" (52.5cm), malleable stainless steel shaft

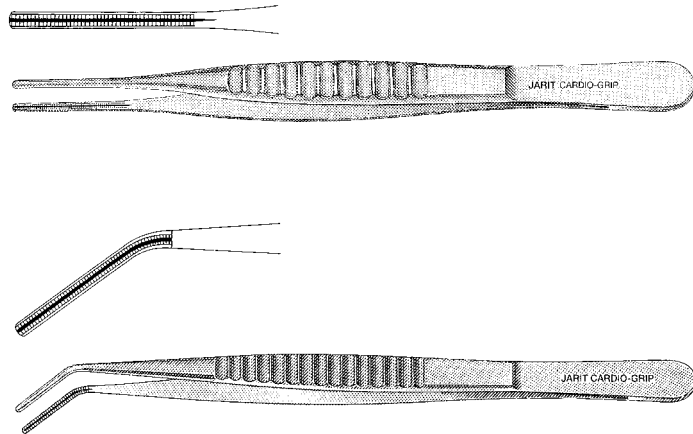
DeBAKEY Thoracic Tissue Forceps,
tips 2.7mm wide

- 320-100** 6" (15.2cm)
- 320-101** 7½" (19.7cm)
- 320-102** 9½" (24.1cm)
- 320-103** 12" (30.5cm)



DeBAKEY Vascular Tissue Forceps,
tips 2mm wide

- | | |
|--|--|
| <p>Straight</p> <ul style="list-style-type: none"> 320-110 6" (15.2cm) 320-111 7½" (19.7cm) 320-112 9½" (24.1cm) 320-109 12" (30.5cm) 320-108 14" (35.6cm) | <p>Angled</p> <ul style="list-style-type: none"> 320-105 320-106 320-107 |
|--|--|



TITANIUM

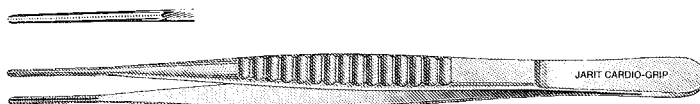
DEBAKEY Vascular Tissue Forceps,
Titanium, straight 1.8mm wide tips,
round handle

- 320-111TI** 7½" (18cm)



DeBAKEY-DIETRICH Coronary Artery Forceps,
tips 1.5mm wide

- 320-113** 6" (15.2cm)
- 320-114** 7 1/4" (19.7cm)
- 320-115** 9 1/2" (24.1cm)



TITANIUM

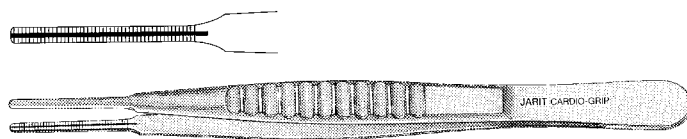
DEBAKEY-DIETRICH Coronary Artery Forceps,
titanium, straight 1.2mm wide tips,
round handle

- 320-113TI** 6 1/4" (15.6cm)
- 320-114TI** 7 1/2" (18cm)
- 320-115TI** 8 1/4" (21cm)

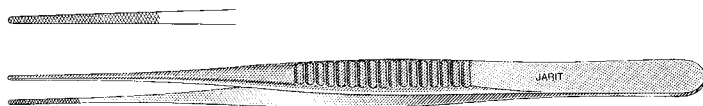


COOLEY Vascular Tissue Forceps,
tips 2mm wide

- 320-116** 6" (15.2cm)
- 320-117** 8" (20.3cm)
- 320-118** 9 1/2" (24.1cm)

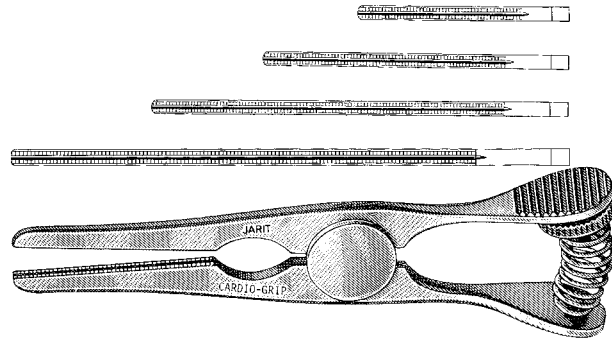


- 320-119** **COOLEY** Vascular Tissue Forceps,
7 1/2" (20cm), delicate,
cross-serrated tips taper to 1mm



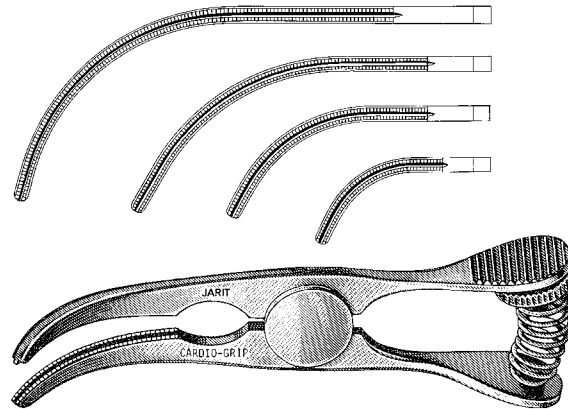
GLOVER Bulldog Clamps,
straight, Cooley serrations

- 320-120** 5cm, jaw length 1.8cm
- 320-125** 6.5cm, jaw length 3.2cm
- 320-130** 8.4cm, jaw length 4.5cm
- 320-135** 12cm, jaw length 6cm



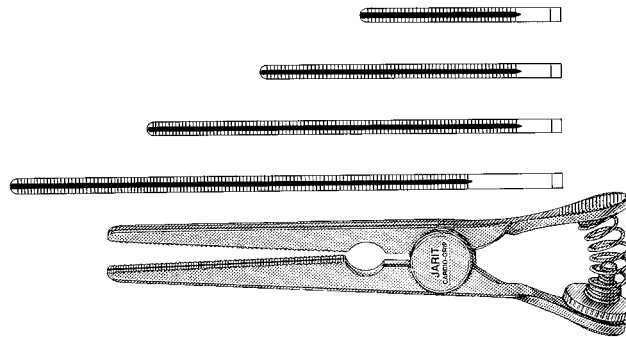
GLOVER Bulldog Clamps,
curved, Cooley serrations

- 320-122** 5cm, jaw length 1.8cm
- 320-127** 6.5cm, jaw length 3.2cm
- 320-132** 8.4cm, jaw length 4.5cm
- 320-137** 12cm, jaw length 6cm



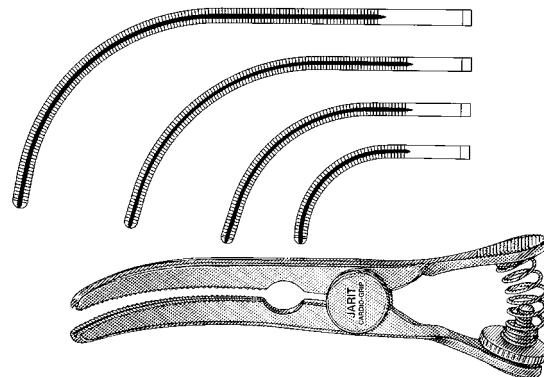
COOLEY Bulldog Clamps,
straight

- 320-140** 5.1cm, jaw length 2cm
- 320-142** 6.7cm, jaw length 3cm
- 320-144** 8.6cm, jaw length 4.7cm
- 320-146** 13.3cm, jaw length 6cm

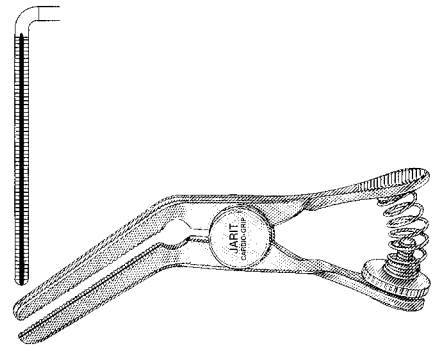


COOLEY Bulldog Clamps,
curved

- 320-141** 4.4cm, jaw length 1.8cm
- 320-143** 6.4cm, jaw length 2.4cm
- 320-145** 7.6cm, jaw length 4cm
- 320-147** 12.4cm, jaw length 5.2cm

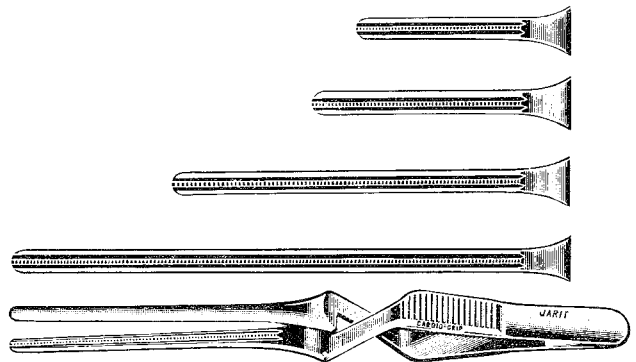


320-148 **GLOVER** Bulldog Clamp,
5.1cm, jaw length 3.1cm,
angled jaws, Cooley serrations



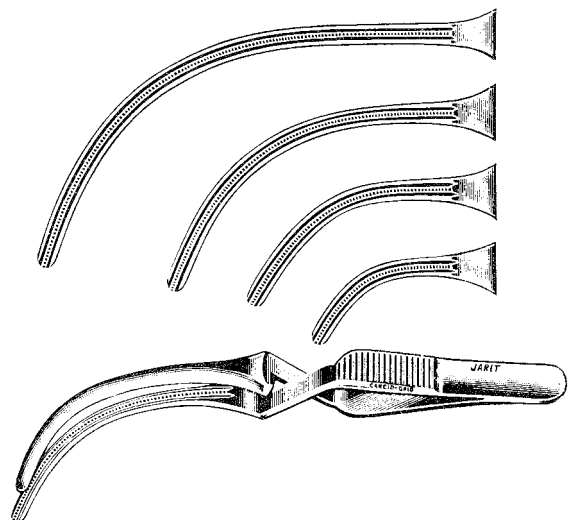
DeBAKEY Bulldog Clamps,
straight, cross action

- 320-150** 7.5cm, jaw length 2cm
- 320-155** 8.5cm, jaw length 3cm
- 320-160** 10.5cm, jaw length 4.5cm
- 320-165** 12cm, jaw length 6.5cm



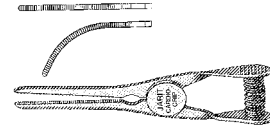
DeBAKEY Bulldog Clamps,
curved, cross action

- 320-152** 7.5cm, jaw length 2cm
- 320-157** 8.5cm, jaw length 3cm
- 320-162** 10.5cm, jaw length 4.5cm
- 320-167** 12cm, jaw length 6.5cm



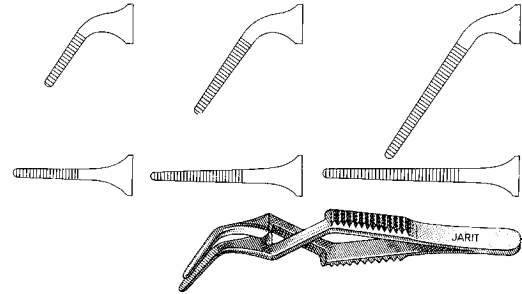
WELDON Miniature Bulldog Clamps,
3.4cm, jaw length 13mm

- 320-168 Straight
- 320-169 Curved



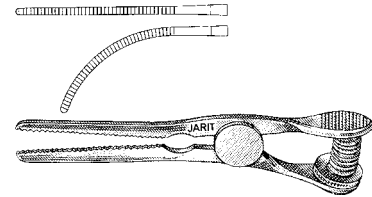
DIETRICH Micro-Coronary Bulldog Clamps

- 320-170 5.2cm length, 10mm angled jaws
- 320-171 5.2cm length, 8mm straight jaws
- 320-172 5.4cm length, 14mm angled jaws
- 320-173 5.6cm length, 12mm straight jaws
- 320-174 6.0cm length, 23mm angled jaws
- 320-175 6.4cm length, 20mm straight jaws

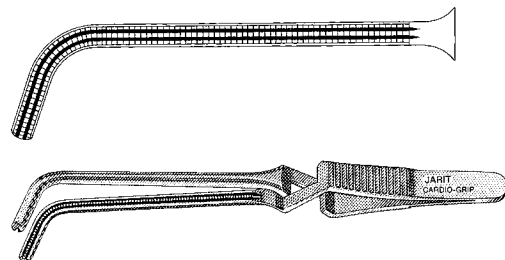


JACOBSON Micro-Coronary Bulldog Clamps,
4.8cm, jaw length 21mm

- 320-177 Straight
- 320-178 Curved



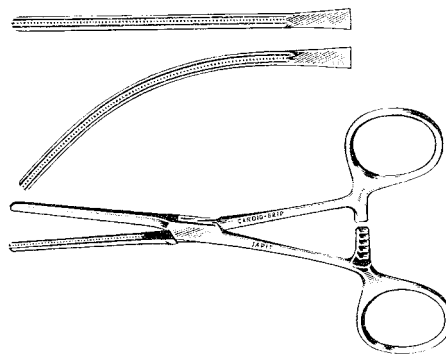
- 320-179 **GREGORY** Internal Carotid Soft Bulldog Clamp,
10.8cm, jaw length 5.4cm, DeBaKey serrations



DeBAKEY Bulldog Clamps,
ring handle

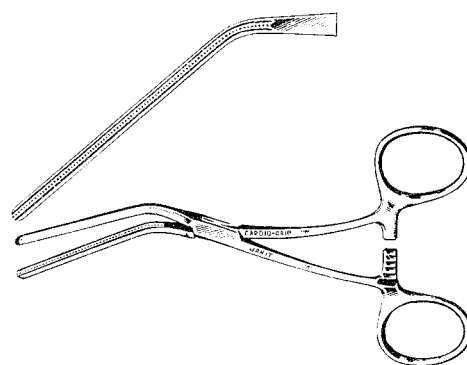
320-180 Straight, 5 $\frac{1}{8}$ " (13cm), jaw length 4.5cm

320-182 Curved, 5" (12.7cm), jaw length 4.5cm



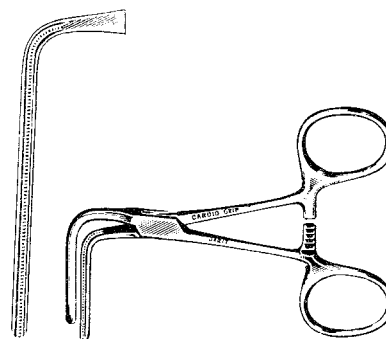
DeBAKEY Bulldog Clamp,
ring handle

320-185 45° angle, 4 $\frac{3}{4}$ " (12.1cm), jaw length 4cm



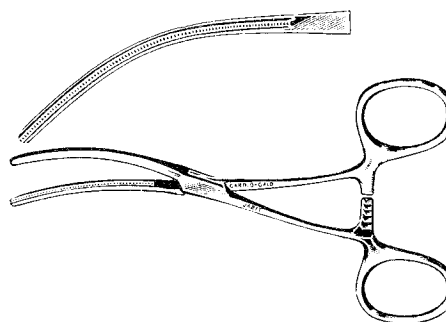
DeBAKEY Bulldog Clamp,
ring handle

320-187 90° angle, 4" (10.1cm), jaw length 4cm

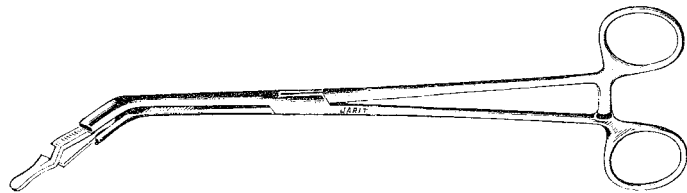


DeBAKEY Bulldog Clamp,
ring handle

320-190 S-shape, 5" (12.7cm), jaw length 4.5cm



310-430 BULLDOG Clamp Applier,
9" (22.9cm)



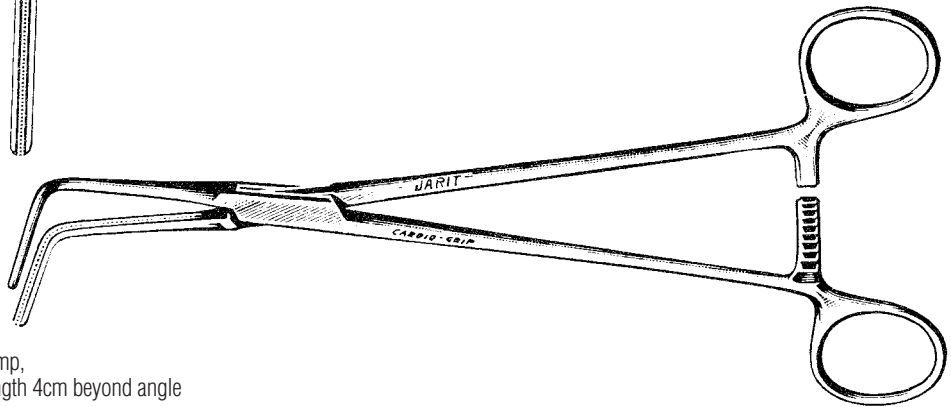
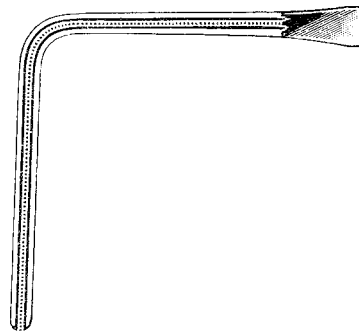
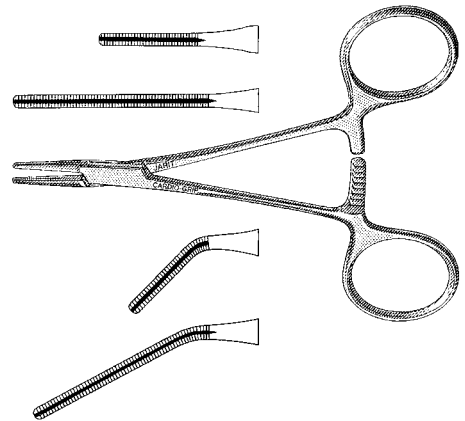
JOHNS HOPKINS Bulldog Clamps

Straight		Curved
310-431	1½" (3.8cm)	310-440
310-432	2" (5.1cm)	310-441
310-433	2¼" (5.7cm)	310-442
310-436	3" (7.6cm)	310-445

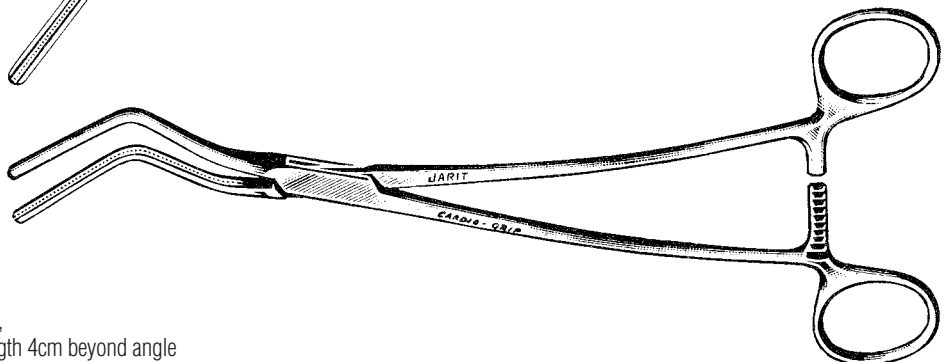
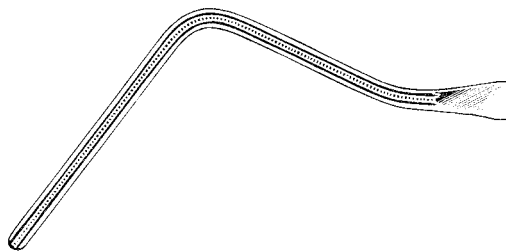


SELMAN Peripheral Blood Vessel Forceps,
Cooley serrations

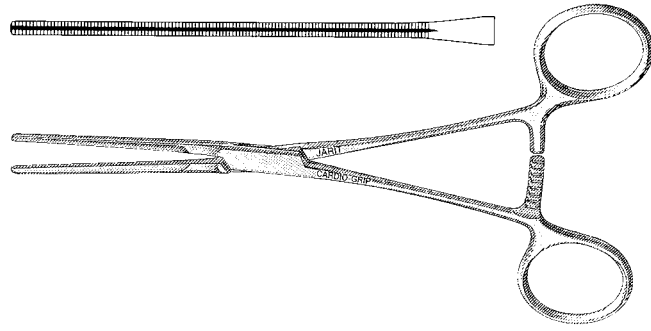
- 320-195** Straight, 4 1/4" (12.1cm), jaw length 13mm
- 320-196** Straight, 5 1/4" (13.3cm), jaw length 25mm
- 320-197** Angled, 4 1/4" (12.1cm), jaw length 13mm
- 320-198** Angled, 5 1/4" (13.3cm), jaw length 25mm



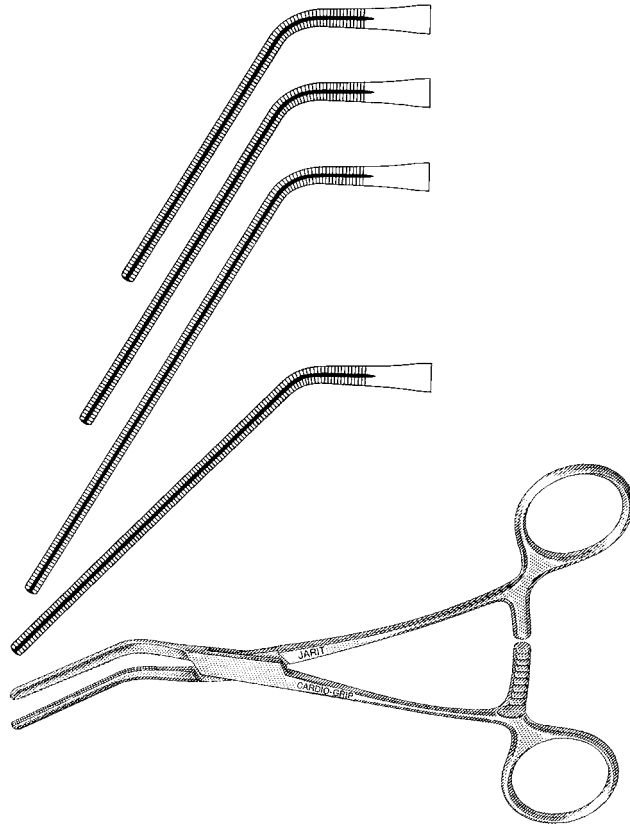
- 320-200** **LEE** Right Angle Clamp,
8 1/2" (21.6cm), jaw length 4cm beyond angle



- 320-205** **LEE** Bronchus Clamp,
9 1/4" (23.5cm), jaw length 4cm beyond angle

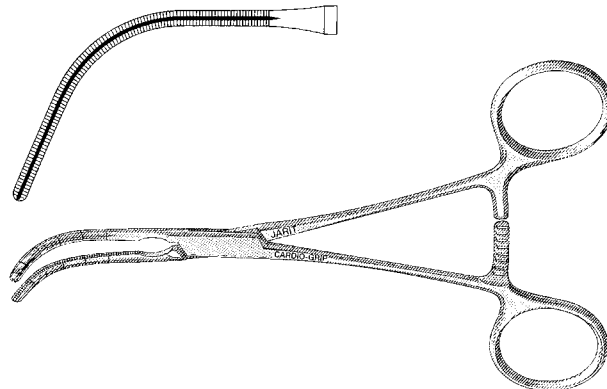


320-209 COOLEY Peripheral Vascular Clamp, 6¼" (17.1cm), straight, jaw length 4.5cm

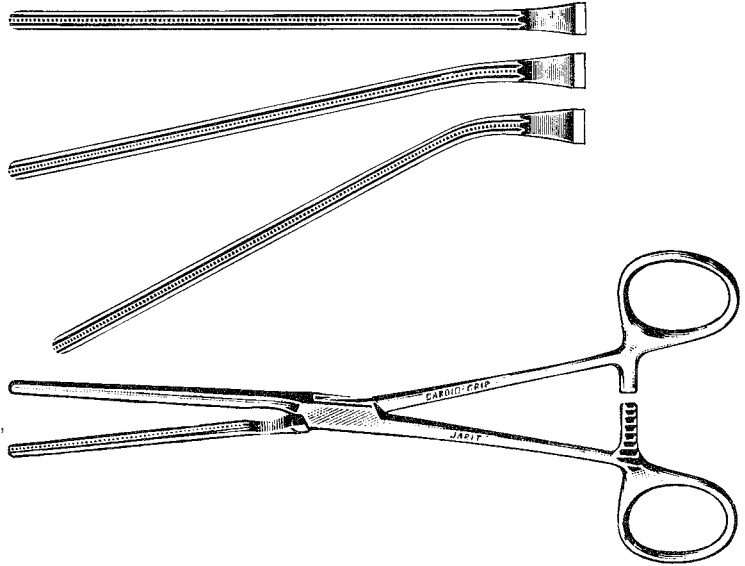


COOLEY Peripheral Vascular Clamps

- 320-210** 6½" (16.5cm), jaw length 3.5cm, 55° angle
- 320-211** 6¾" (17.1cm), jaw length 4.5cm, 55° angle
- 320-212** 7¼" (18.4cm), jaw length 6cm, 55° angle
- 320-213** 7" (17.8cm), jaw length 4.5cm, 45° angle

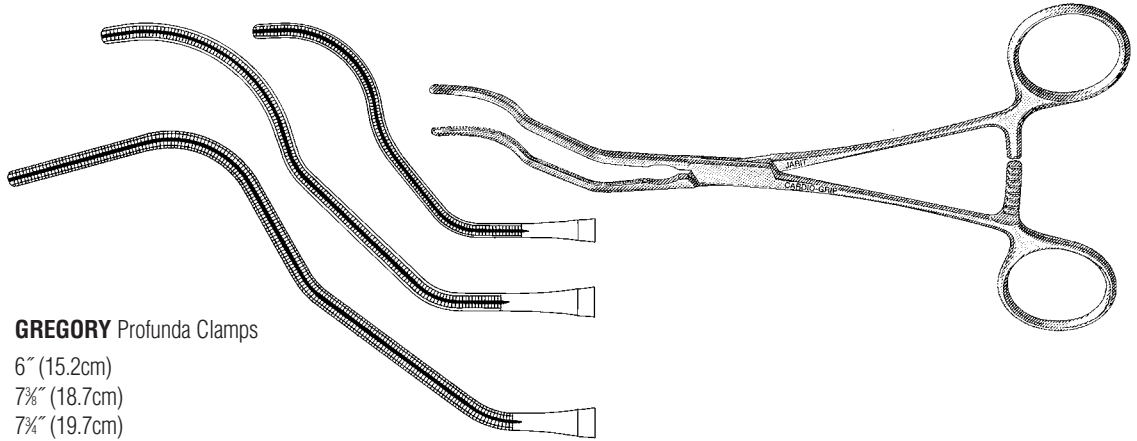


320-214 COOLEY Peripheral Vascular Clamp, 6¾" (16.2cm), curved, jaw length 3cm



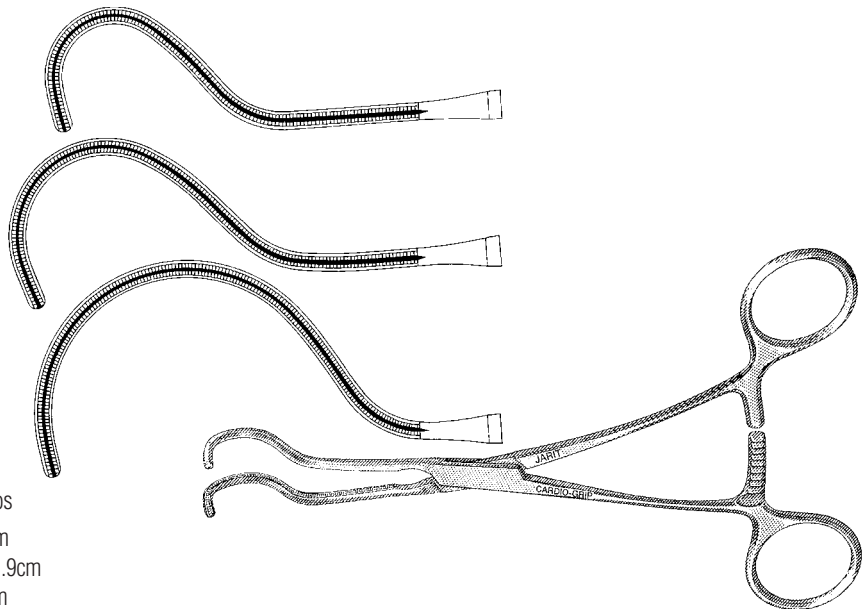
LELAND JONES Peripheral Vascular Clamps,
7½" (19.1cm), jaw length 7cm

- 320-215** Straight
- 320-216** 15° angle
- 320-217** 30° angle



GREGORY Profunda Clamps

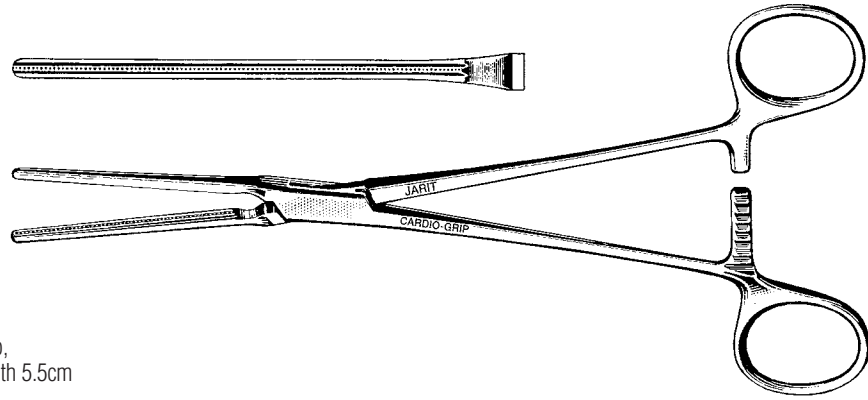
- 320-220** 6" (15.2cm)
- 320-221** 7½" (18.7cm)
- 320-222** 7¾" (19.7cm)



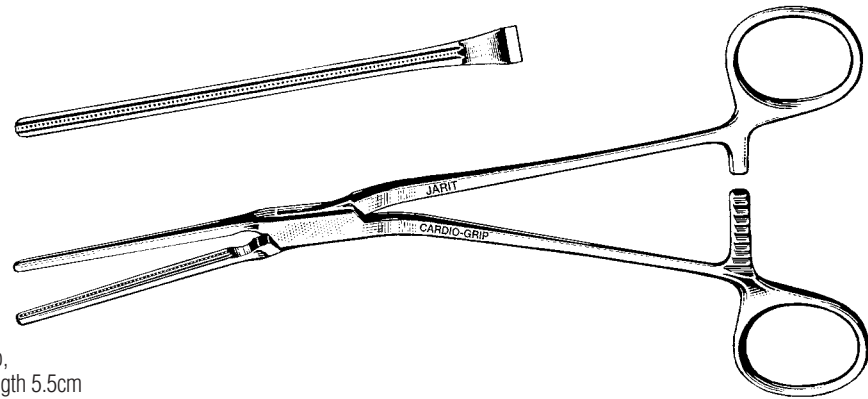
DALE Femoral-Popliteal Clamps

- 320-225** Small: 7" (17.8cm), depth 1.3cm
- 320-226** Medium: 7½" (18.1cm), depth 1.9cm
- 320-227** Large: 7" (17.8cm), depth 2.5cm

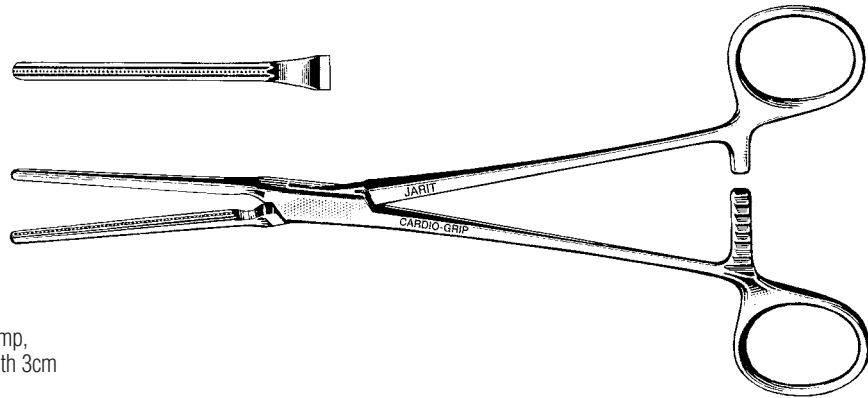
JARIT CARDIO-GRIP CLAMPS



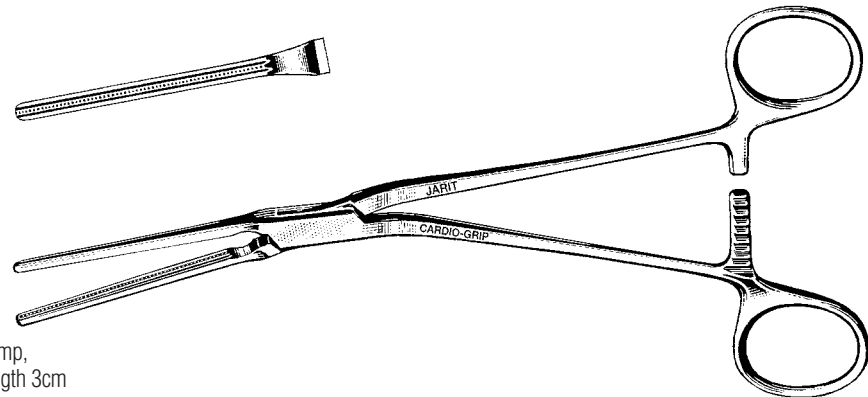
320-230 DeBAKEY Coarctation Clamp,
9" (22.9cm), straight, jaw length 5.5cm



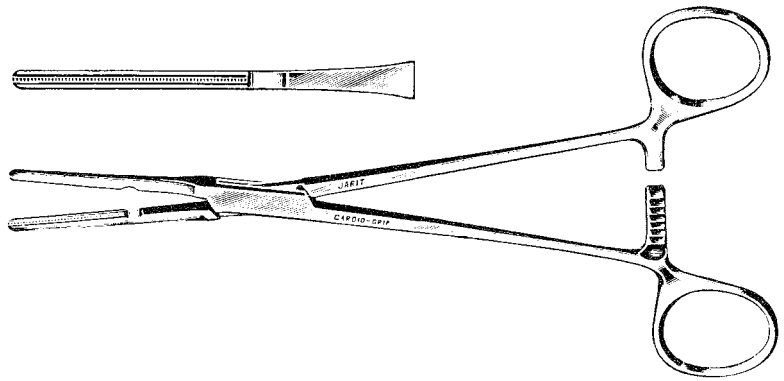
320-231 DeBAKEY Coarctation Clamp,
8 3/4" (22.2cm), angular, jaw length 5.5cm



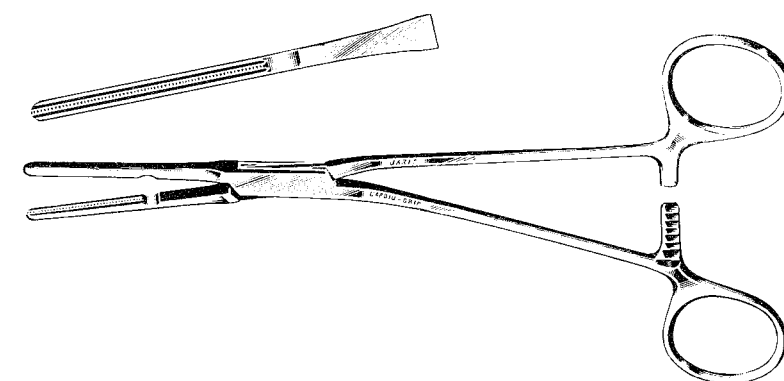
320-233 DeBAKEY Patent Ductus Clamp,
8" (20.3cm), straight, jaw length 3cm



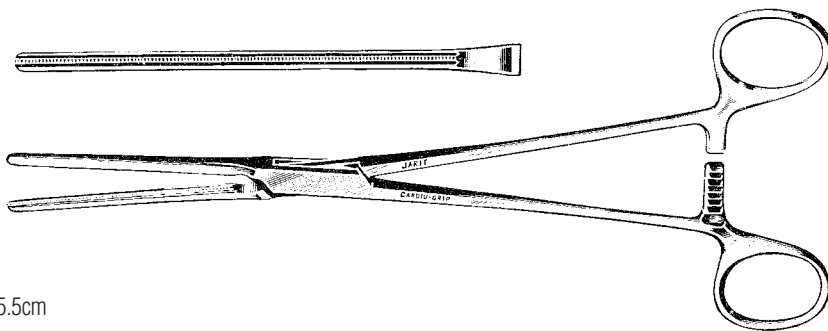
320-234 DeBAKEY Patent Ductus Clamp,
7 3/4" (19.7cm), angular, jaw length 3cm



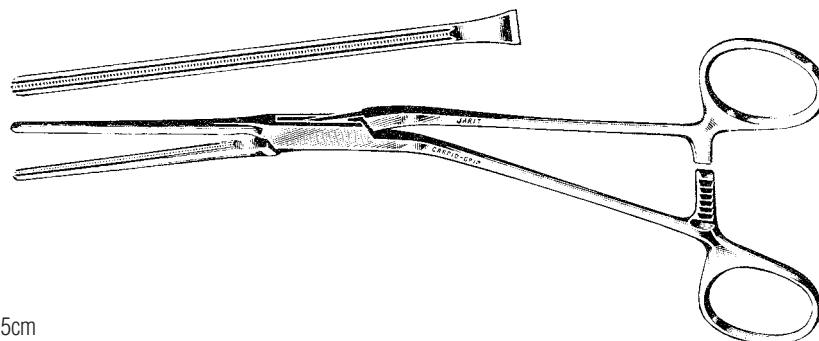
320-235 **GLOVER** Patent Ductus Clamp,
8" (20.3cm), straight, jaw length 3cm



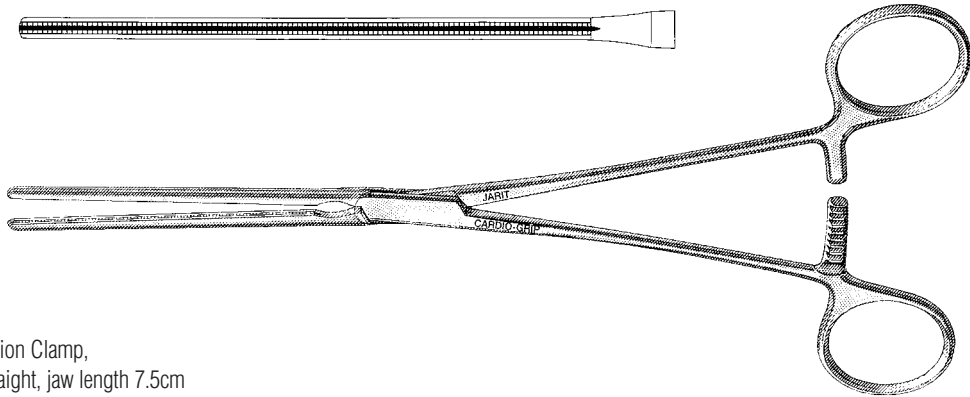
320-236 **GLOVER** Patent Ductus Clamp,
8" (20.3cm), angular, jaw length 3cm



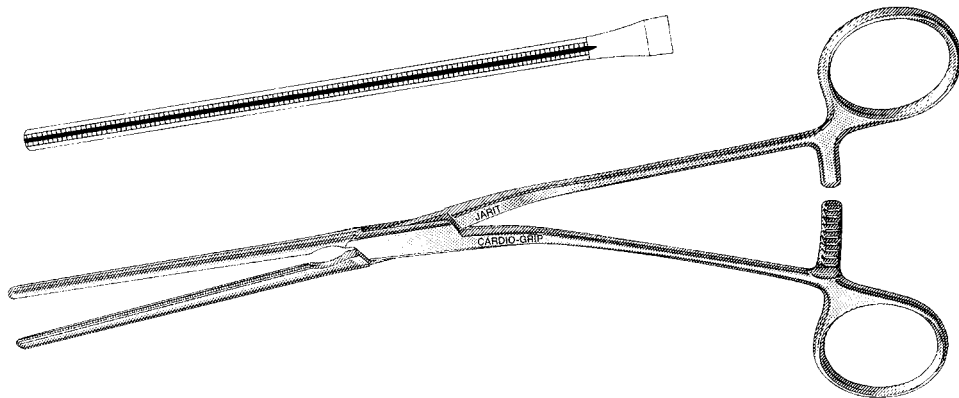
320-238 **GLOVER** Coarctation Clamp,
8 3/4" (22.2cm), straight, jaw length 5.5cm



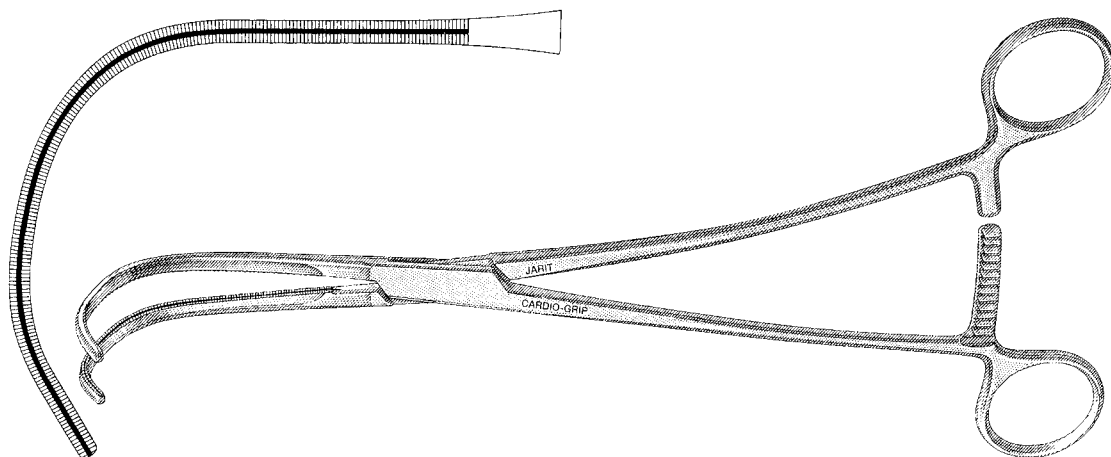
320-239 **GLOVER** Coarctation Clamp,
8 3/4" (22.2cm), angular, jaw length 5.5cm



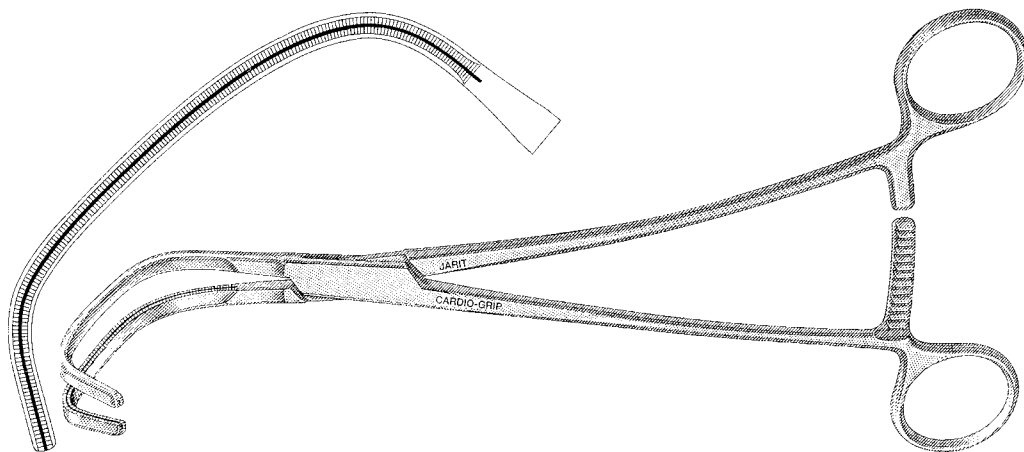
320-240 GLOVER Coarctation Clamp,
10 $\frac{1}{2}$ " (25.7cm), straight, jaw length 7.5cm



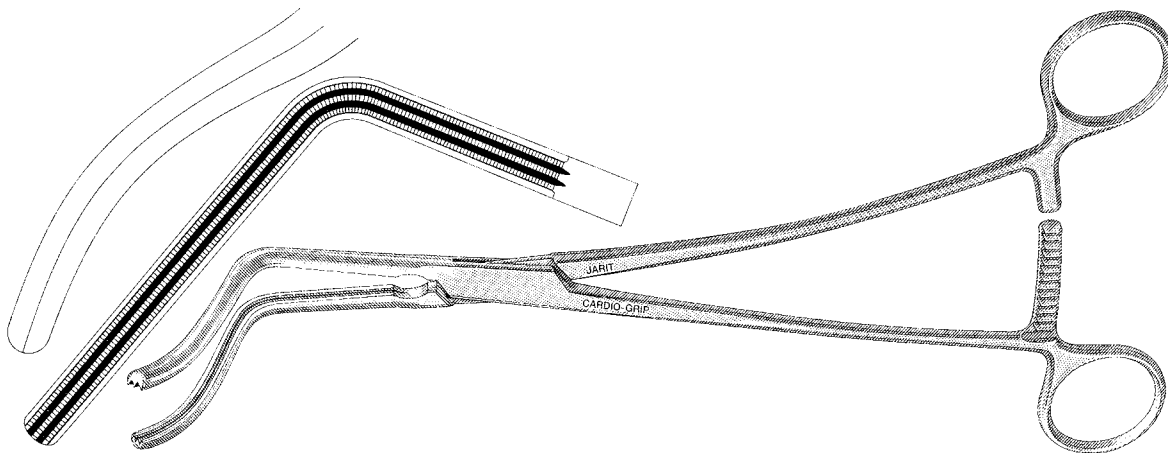
320-241 GLOVER Coarctation Clamp,
10 $\frac{1}{2}$ " (25.7cm), angular, jaw length 7.5cm



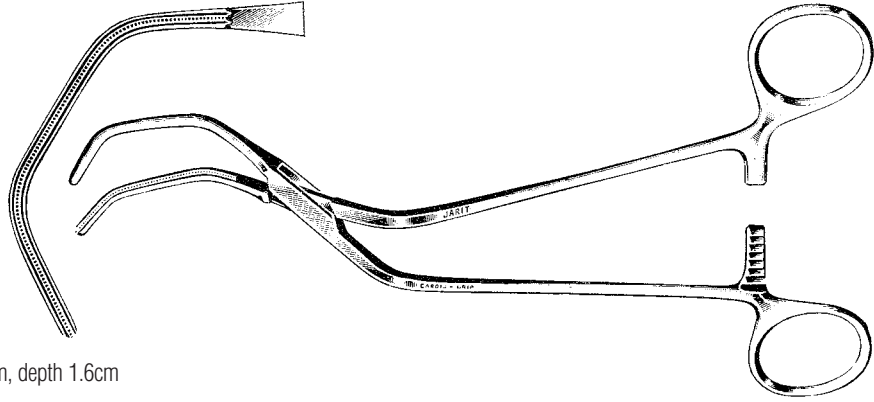
320-243 COOLEY Aorta Clamp,
10 $\frac{1}{2}$ " (27.6cm), jaw length 5.5cm, depth 1.5cm



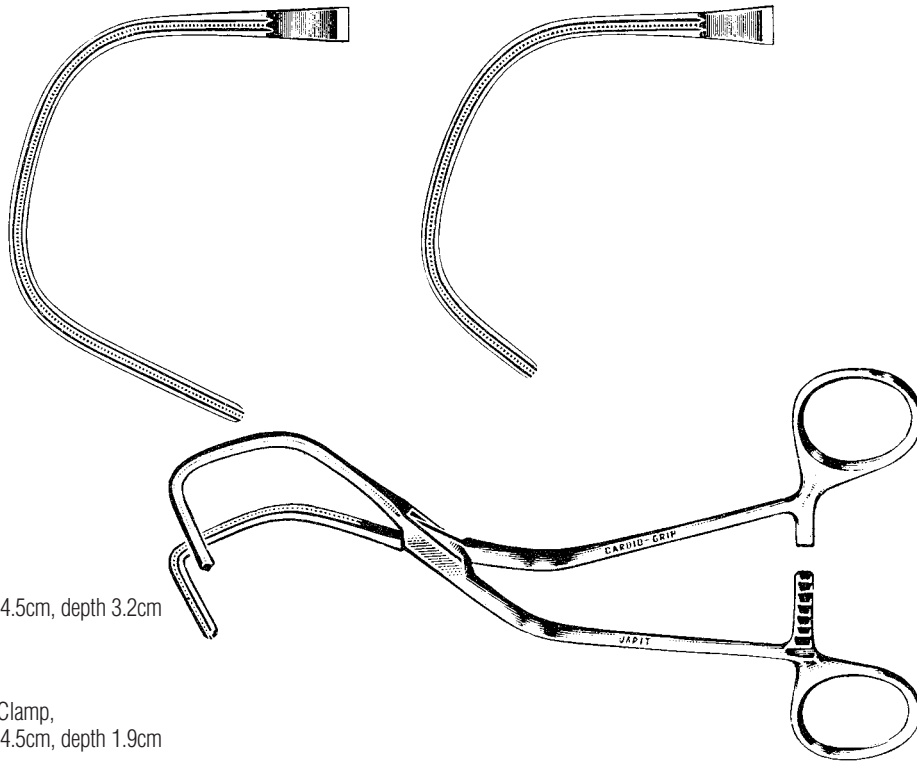
320-244 COOLEY Aorta Clamp,
10 $\frac{1}{2}$ " (26.7cm), jaw length 7.5cm, depth 1.7cm



320-245 DeBAKEY Aorta Clamp,
10 $\frac{1}{2}$ " (26.7cm), jaw length 6cm

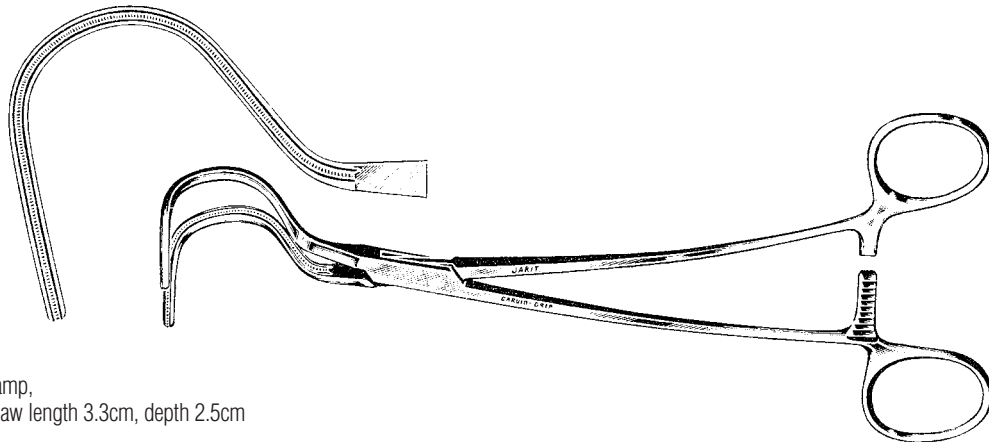


320-246 **DIETRICH** Aorta Clamp,
8" (20.3cm), jaw length 4.7cm, depth 1.6cm



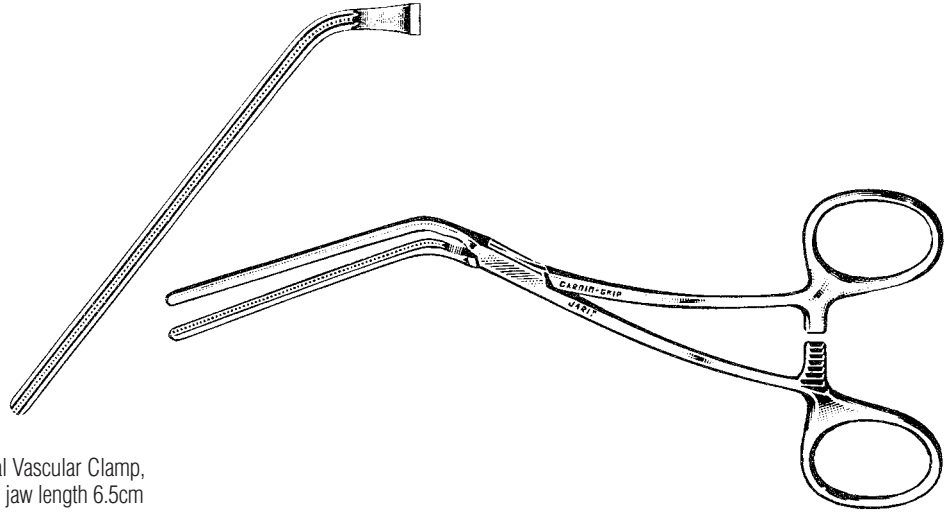
320-247 **KAY** Aorta Clamp,
8" (20.3cm), jaw length 4.5cm, depth 3.2cm

320-248 **LAMBERT-KAY** Aorta Clamp,
8" (20.3cm), jaw length 4.5cm, depth 1.9cm

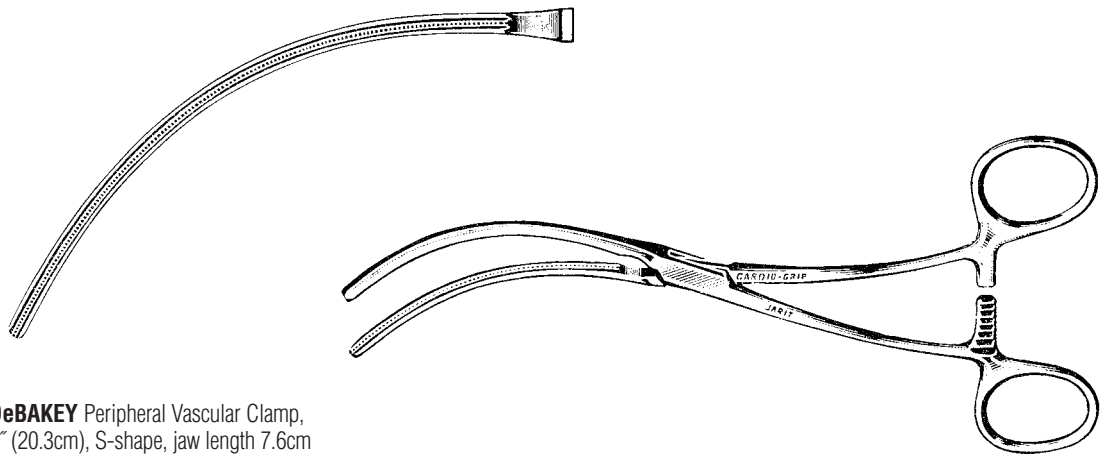


320-249 **WYLIE "J"** Clamp,
8½" (21.6cm), jaw length 3.3cm, depth 2.5cm

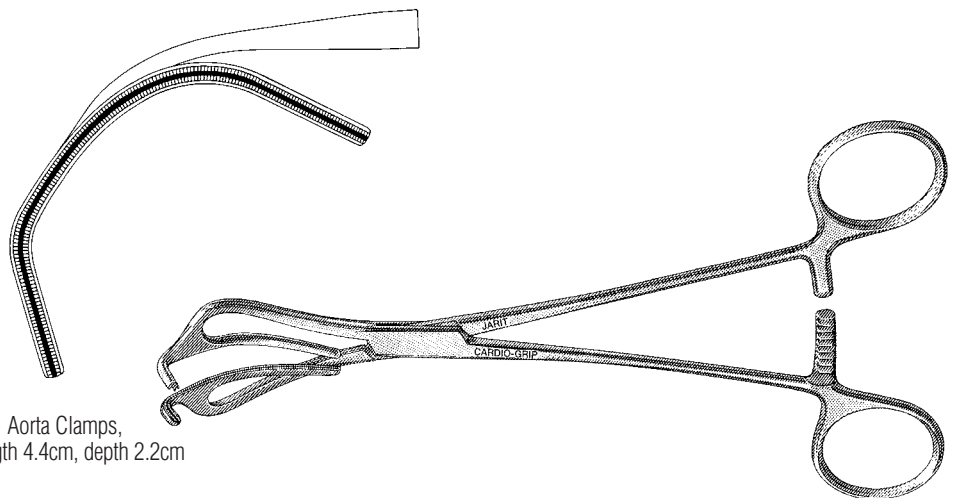
JARIT **CARDIO-GRIP CLAMPS**



320-250 DeBAKEY Peripheral Vascular Clamp,
7" (17.8cm), angular, jaw length 6.5cm



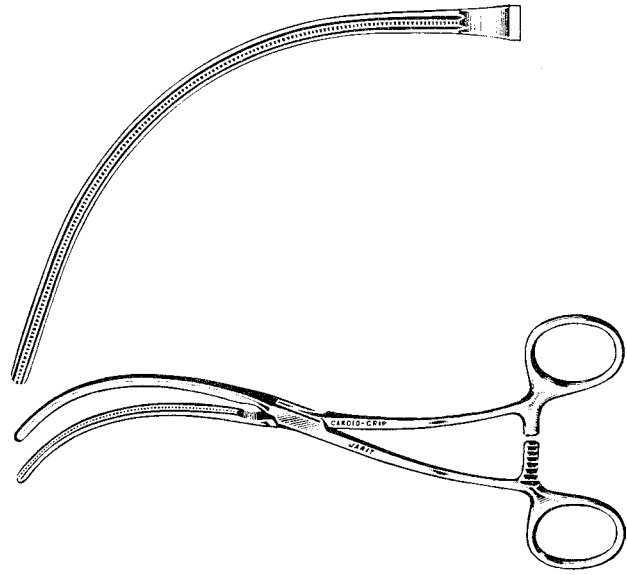
320-255 DeBAKEY Peripheral Vascular Clamp,
8" (20.3cm), S-shape, jaw length 7.6cm



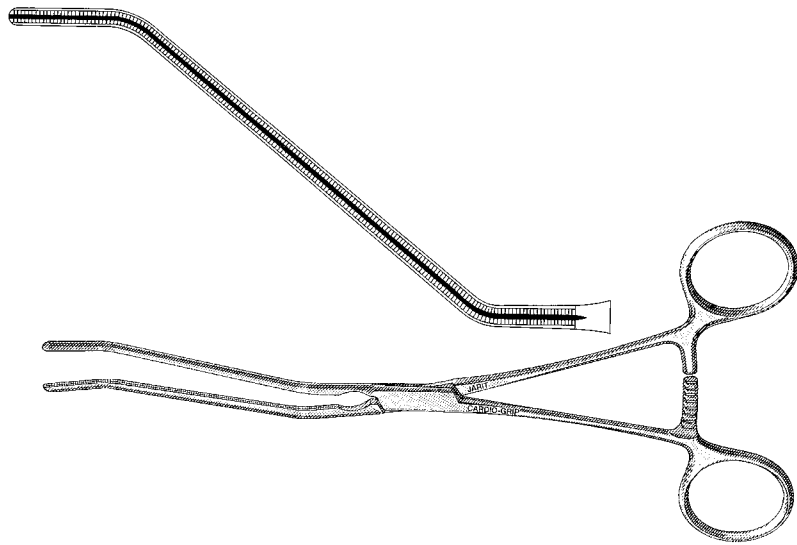
LEMOLE-STRONG Aorta Clamps,
8 1/4" (21cm), jaw length 4.4cm, depth 2.2cm

320-257 Straight shanks

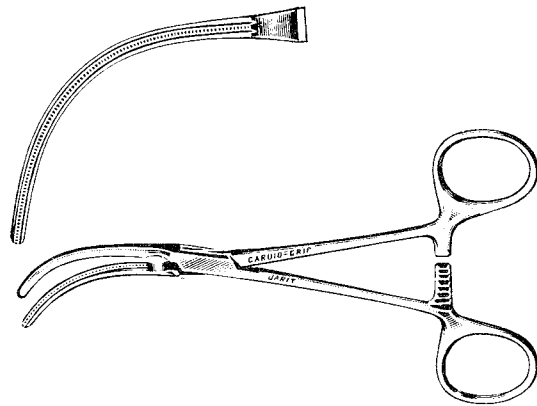
320-258 Angular shanks



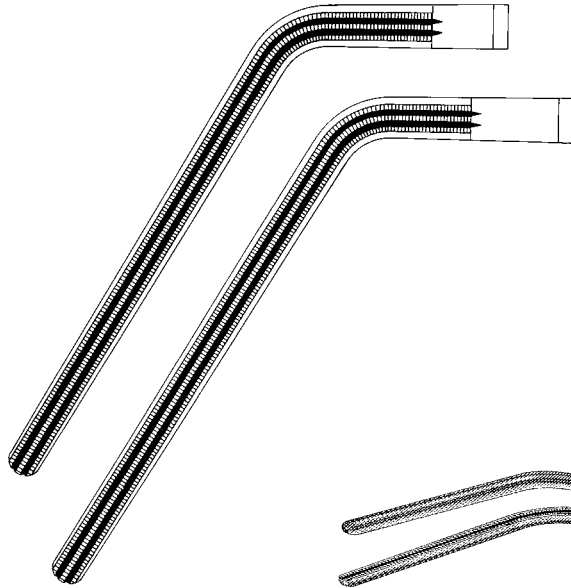
320-260 DeBAKEY Aortic Exclusion Clamp,
7¼" (18.4cm), acute S-shape, jaw length 7.5cm



320-262 HENLY Vascular Clamp,
8" (20.3cm), jaw length 7cm

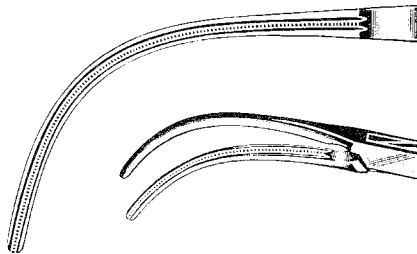
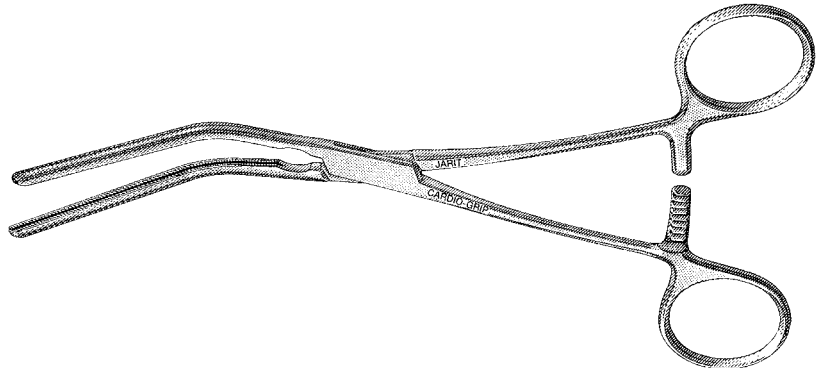


320-265 DeBAKEY Peripheral Vascular Clamp,
6" (15.2cm), curved, jaw length 4.4cm

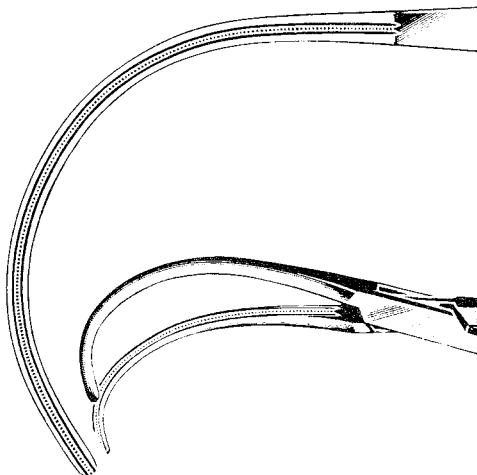
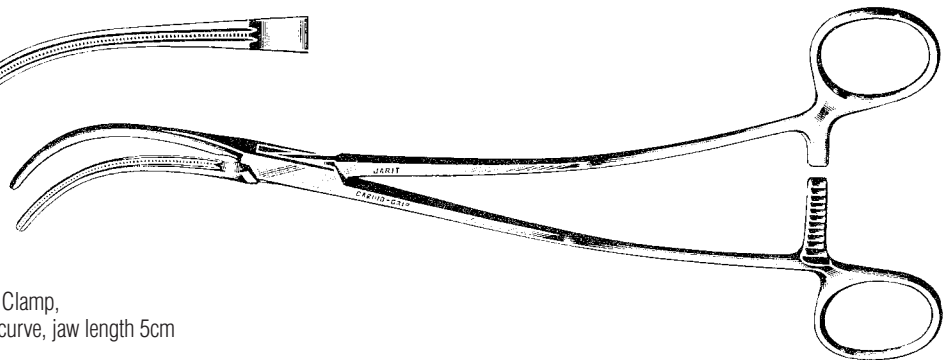


MORRIS Aorta Clamps

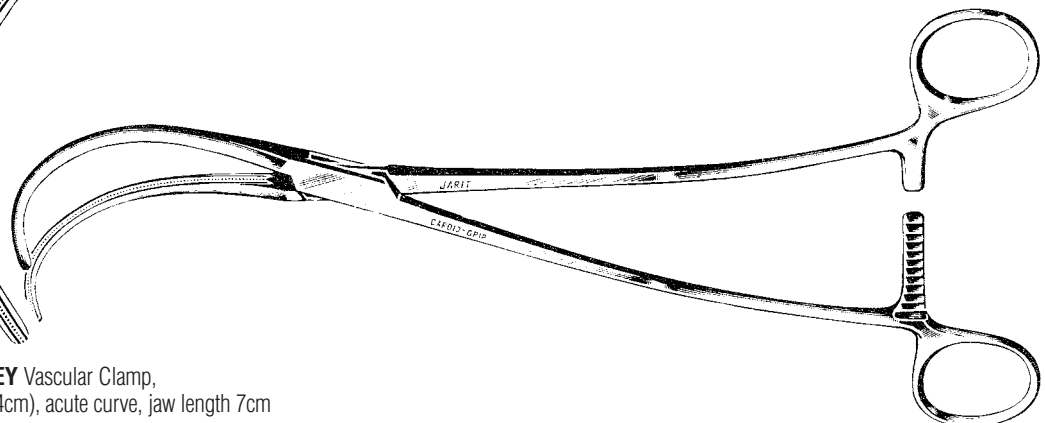
- 320-267** 8¼" (21cm), jaw length 6.4cm
- 320-268** 11" (27.9cm), jaw length 7cm

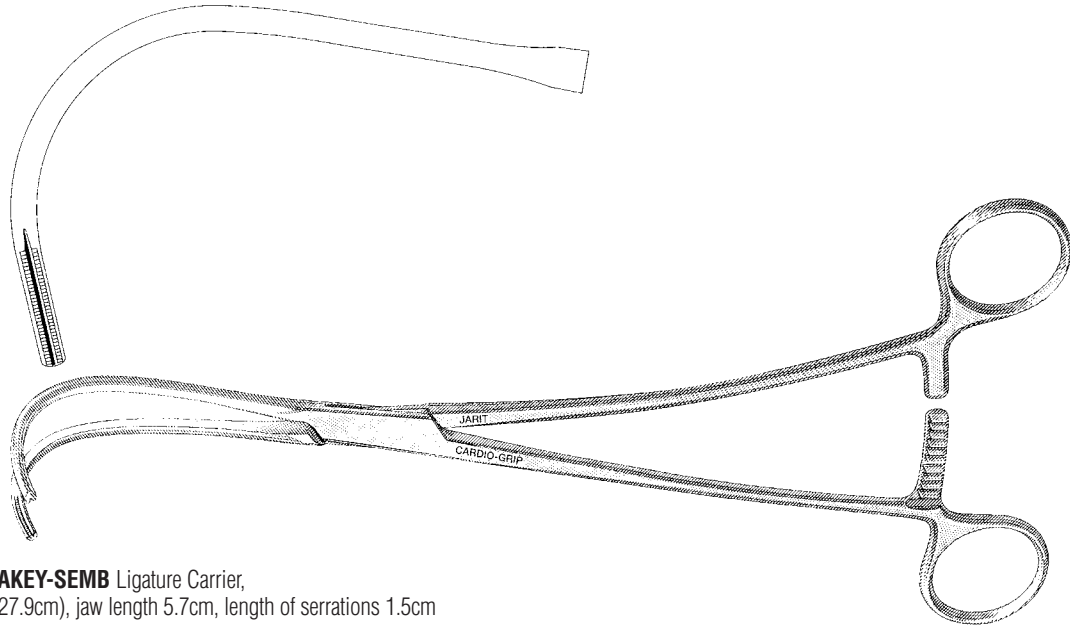


- 320-270** **DeBAKEY** Vascular Clamp,
9" (24.4cm), acute curve, jaw length 5cm

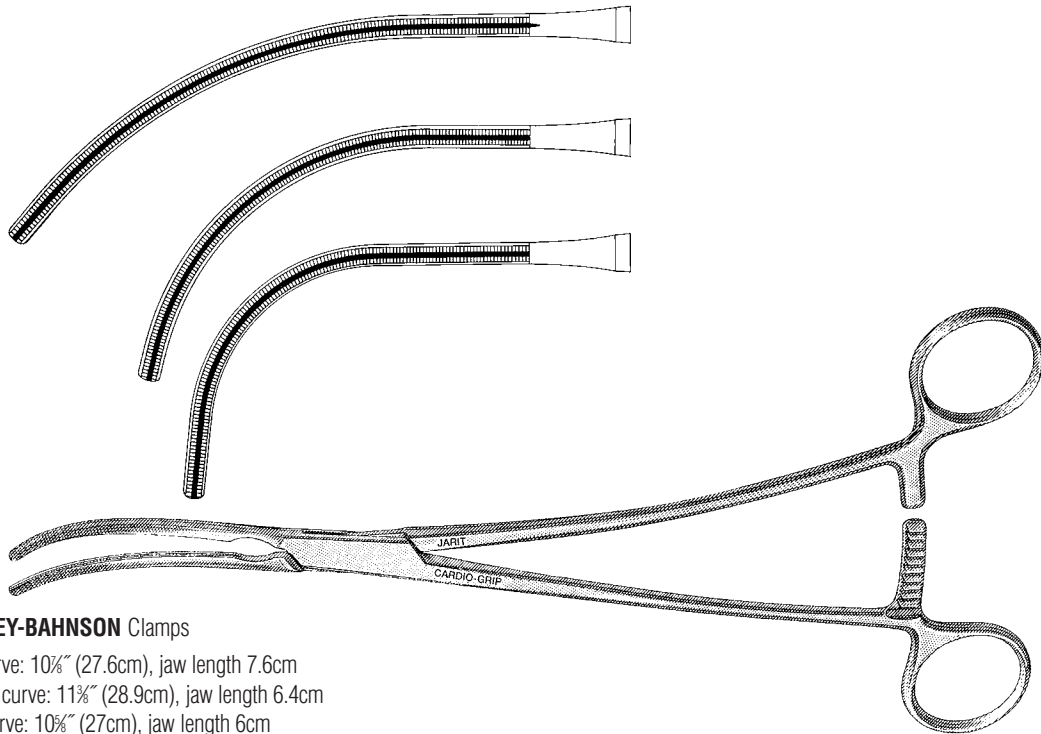


- 320-272** **DeBAKEY** Vascular Clamp,
10" (25.4cm), acute curve, jaw length 7cm



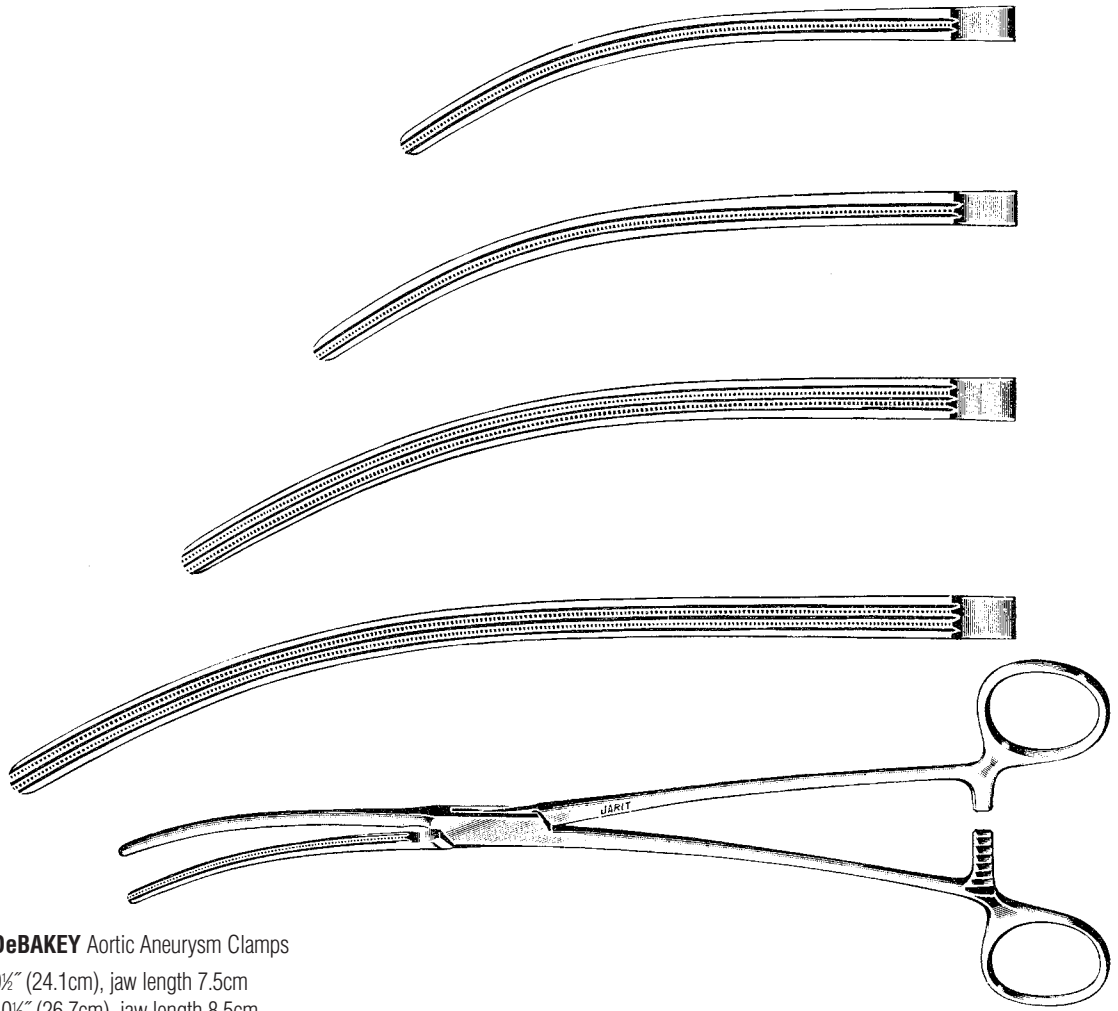


320-274 DeBAKEY-SEMB Ligature Carrier,
11" (27.9cm), jaw length 5.7cm, length of serrations 1.5cm



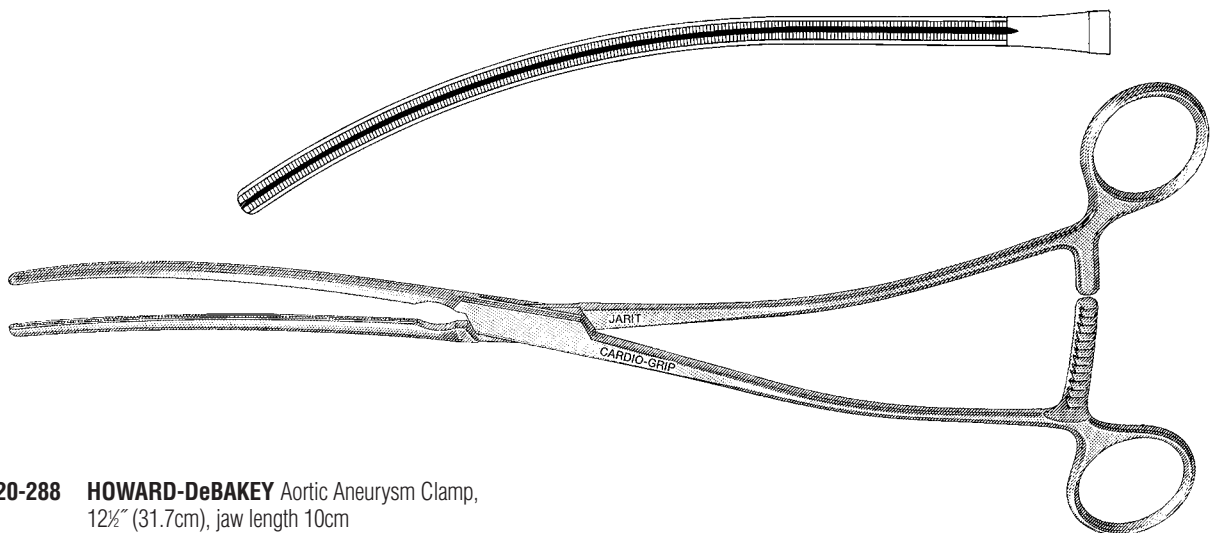
DeBAKEY-BAHNSON Clamps

- 320-275** Light curve: 10" (27.6cm), jaw length 7.6cm
- 320-276** Medium curve: 11" (28.9cm), jaw length 6.4cm
- 320-277** Acute curve: 10" (27cm), jaw length 6cm

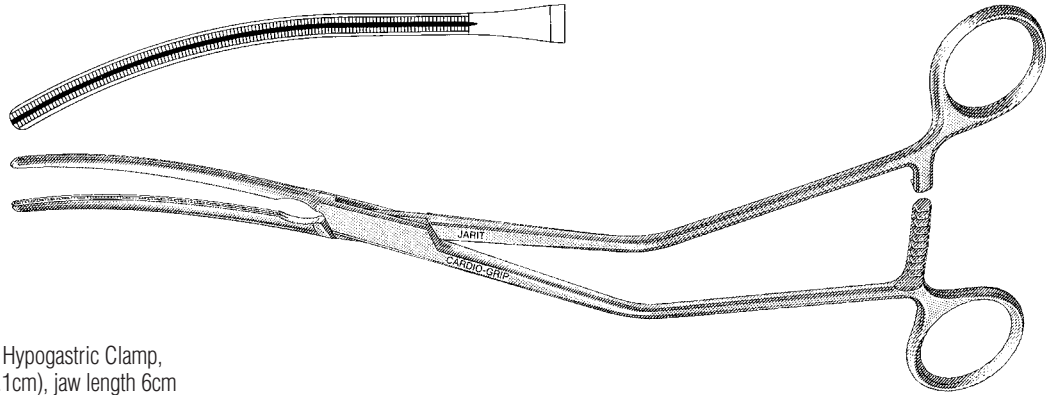


DeBAKEY Aortic Aneurysm Clamps

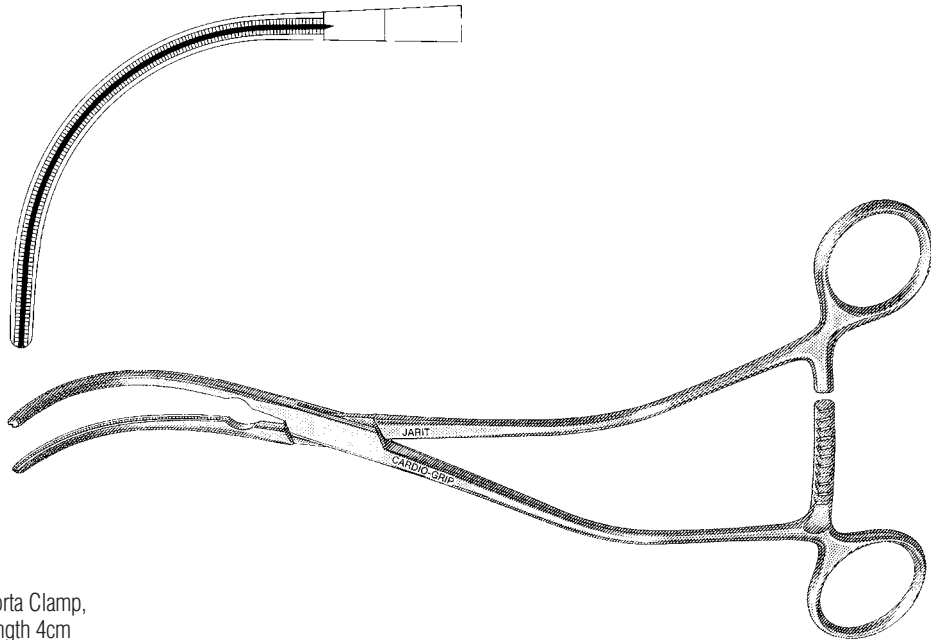
- 320-280** 9½" (24.1cm), jaw length 7.5cm
- 320-282** 10½" (26.7cm), jaw length 8.5cm
- 320-284** 12" (30.5cm), jaw length 10cm
- 320-286** 12¼" (31.1cm), jaw length 12cm



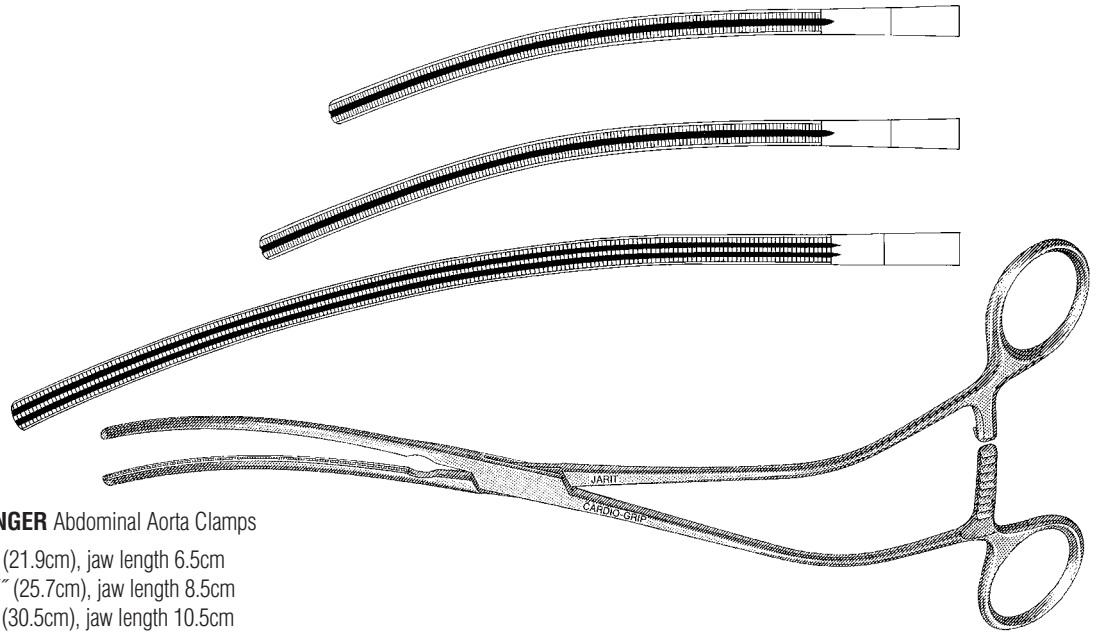
- 320-288** **HOWARD-DeBAKEY** Aortic Aneurysm Clamp,
12½" (31.7cm), jaw length 10cm



320-289 WYLIE Hypogastric Clamp,
9½" (24.1cm), jaw length 6cm

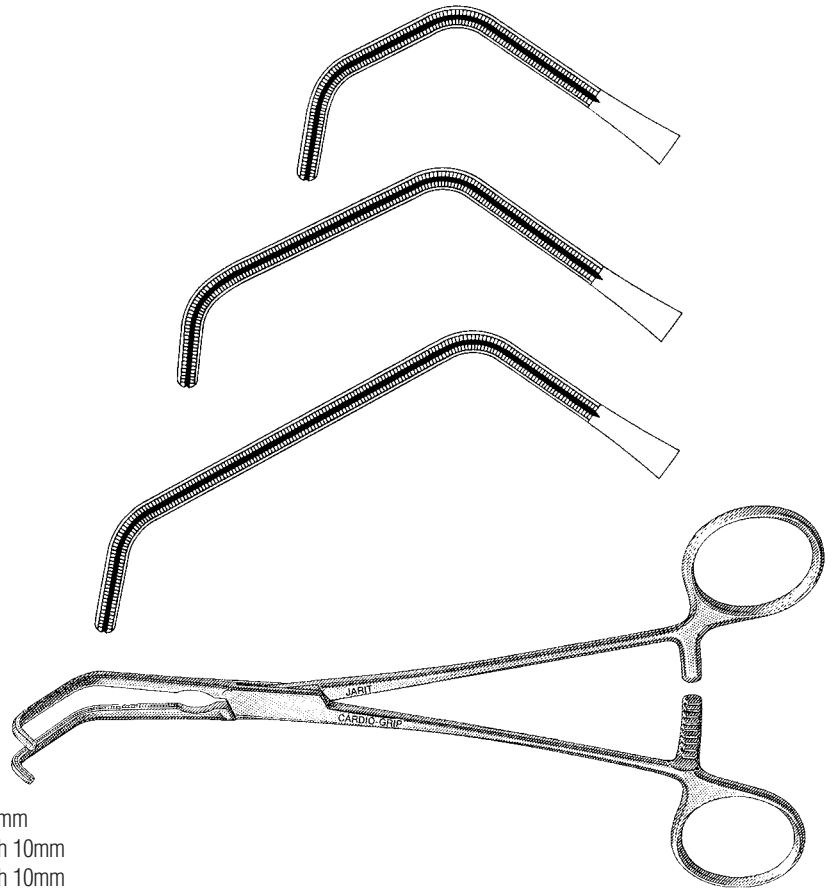


320-290 WYLIE Abdominal Aorta Clamp,
10½" (26.7cm), jaw length 4cm



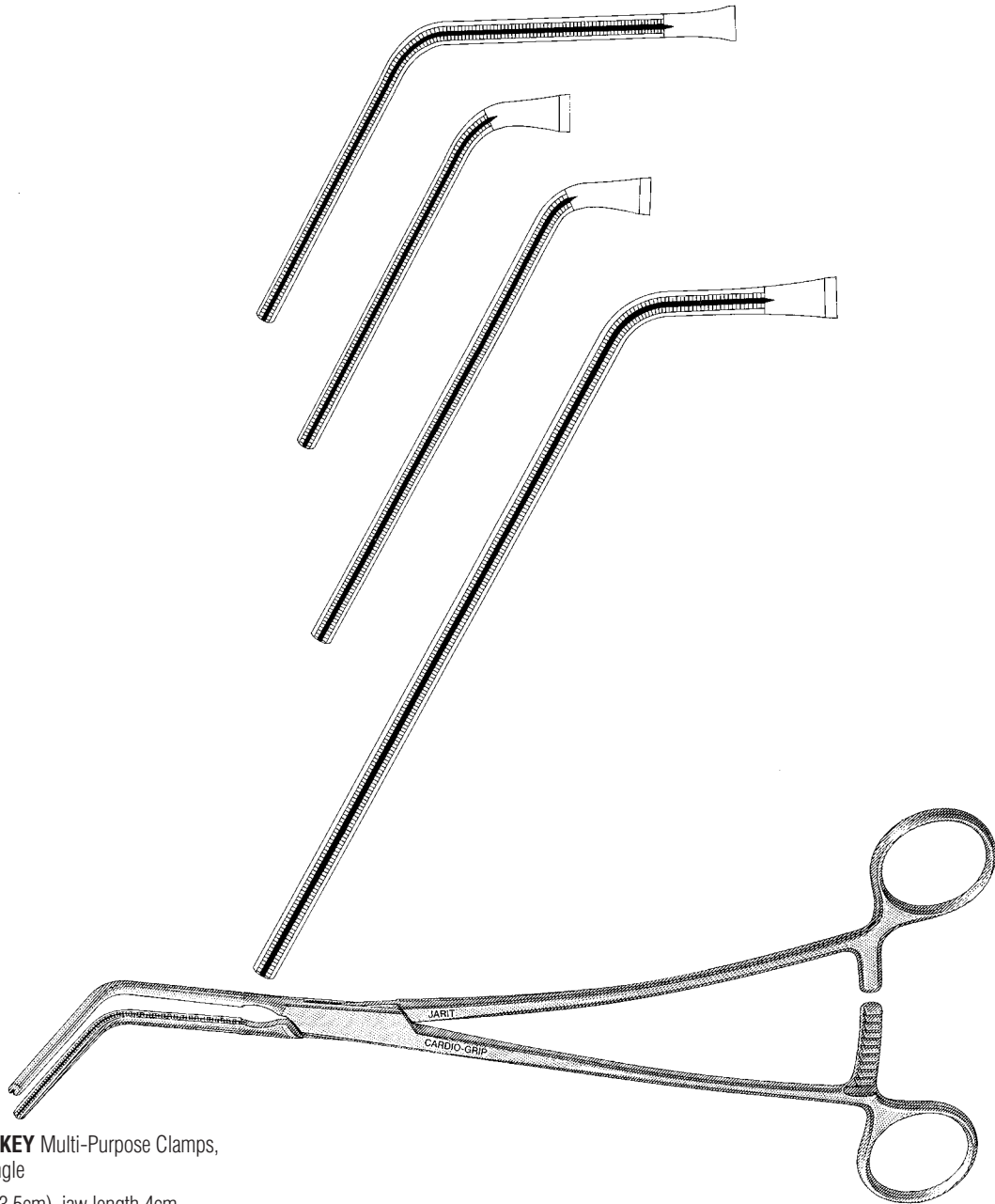
ZANGER Abdominal Aorta Clamps

- 320-292** 8 $\frac{1}{2}$ " (21.9cm), jaw length 6.5cm
- 320-293** 10 $\frac{1}{2}$ " (25.7cm), jaw length 8.5cm
- 320-294** 12" (30.5cm), jaw length 10.5cm



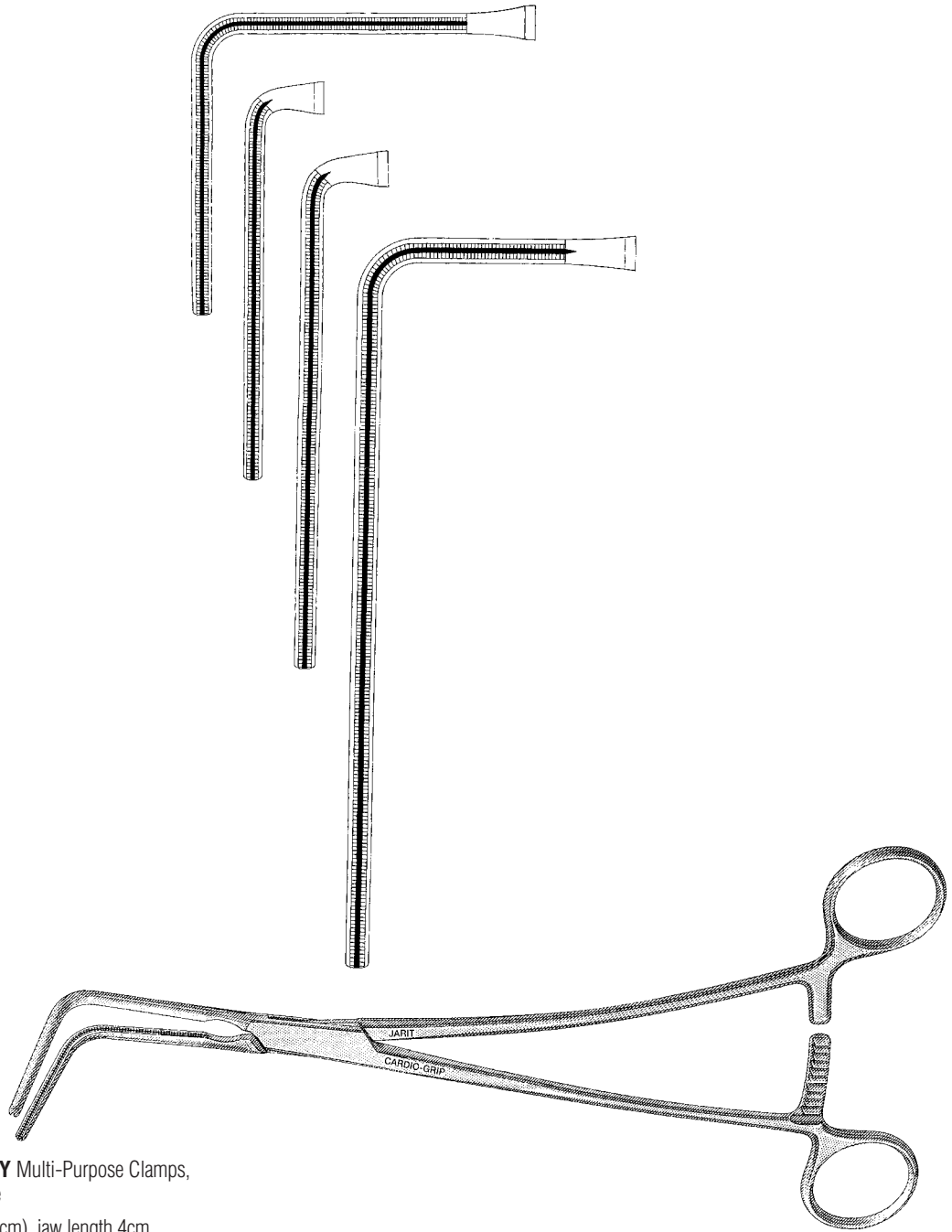
BECK Aorta Clamps

- 320-296** 8" (20.3cm), jaw length 3cm, depth 8mm
- 320-297** 8 $\frac{1}{2}$ " (21.3cm), jaw length 4.5cm, depth 10mm
- 320-298** 8 $\frac{1}{2}$ " (21.6cm), jaw length 6.7cm, depth 10mm



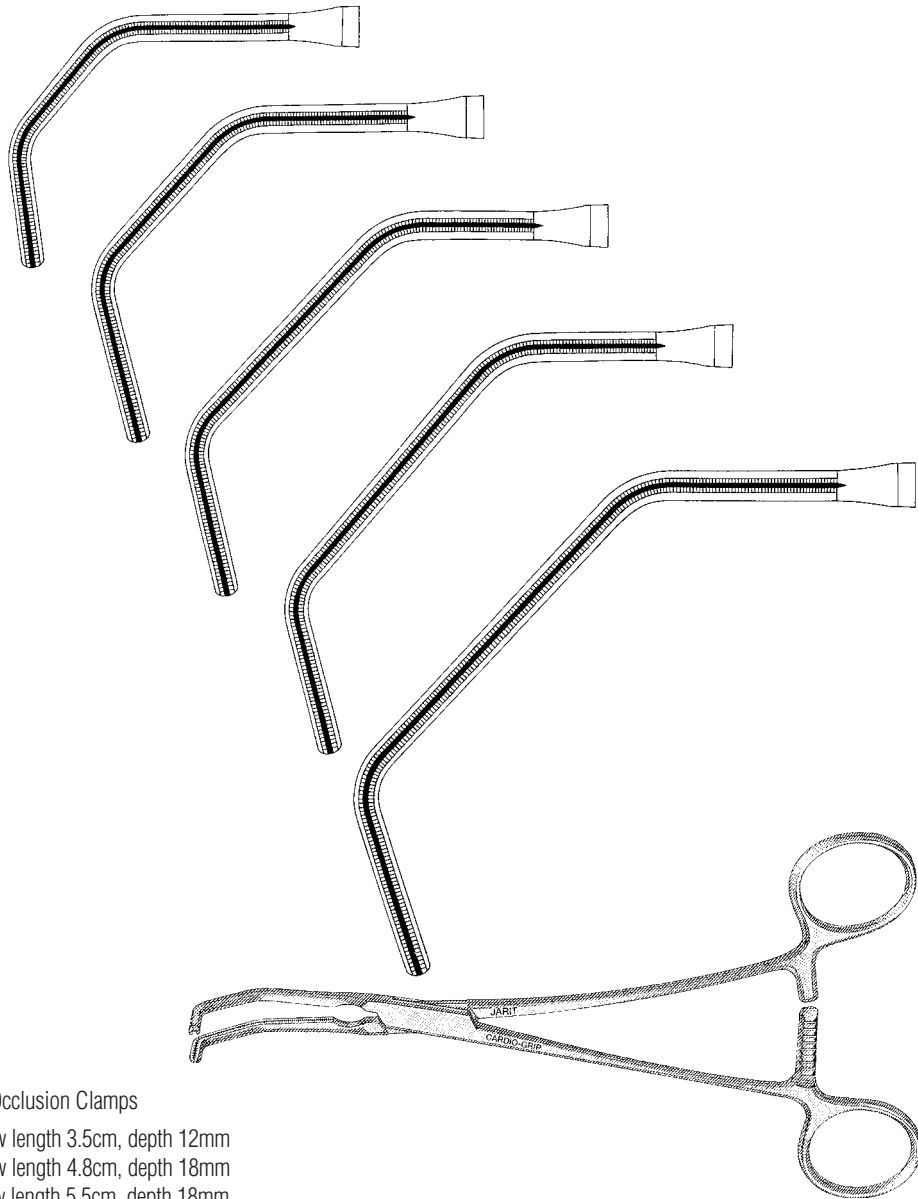
DeBAKEY Multi-Purpose Clamps,
60° angle

- 320-300** 9¼" (23.5cm), jaw length 4cm
- 320-302** 8¾" (21cm), jaw length 5cm
- 320-304** 9½" (24.1cm), jaw length 6.5cm
- 320-306** 12" (30.5cm), jaw length 10cm



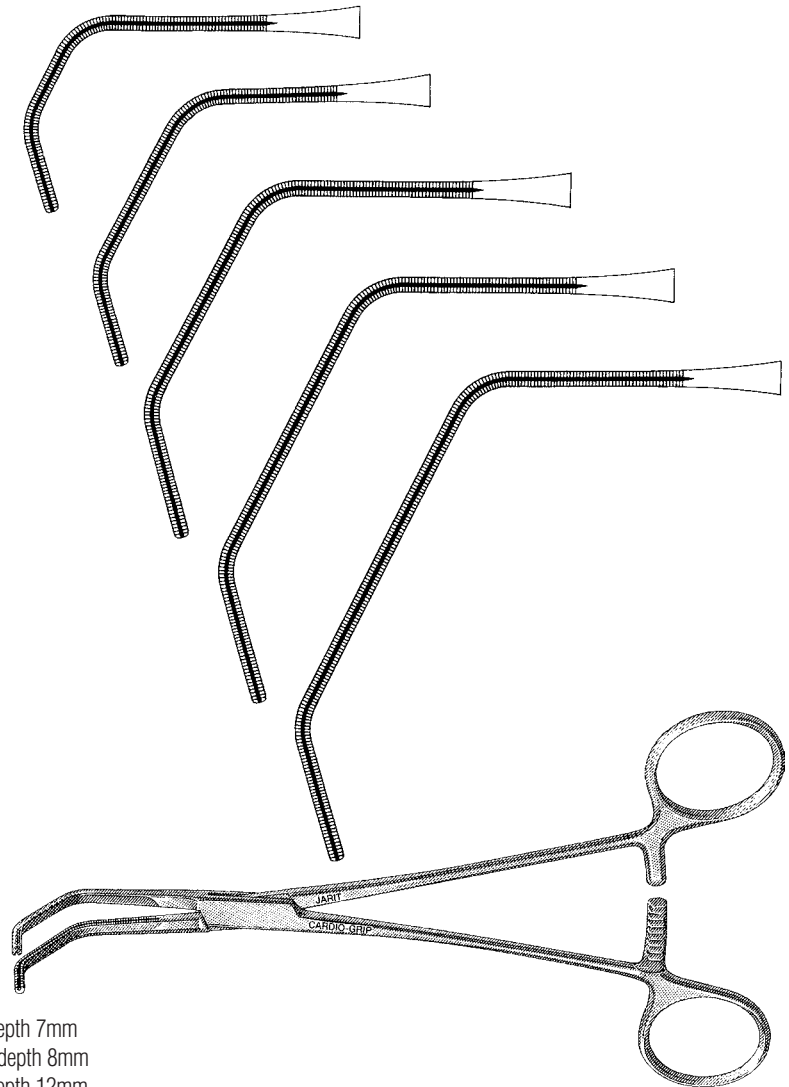
DeBAKEY Multi-Purpose Clamps,
90° angle

- 320-310** 8¾" (22.2cm), jaw length 4cm
- 320-312** 8" (20.3cm), jaw length 5cm
- 320-314** 8½" (21.6cm), jaw length 6cm
- 320-316** 11" (27.9cm), jaw length 10cm



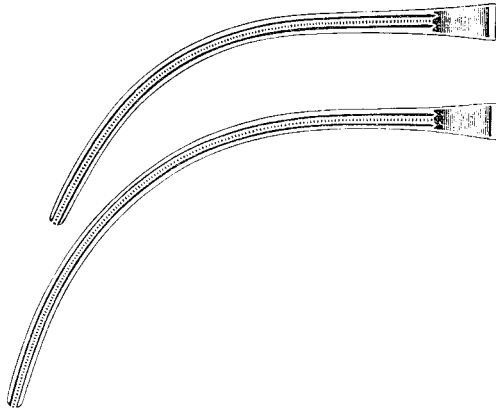
DeBAKEY Tangential Occlusion Clamps

- 320-320** No. 1: 7¼" (19.7cm), jaw length 3.5cm, depth 12mm
- 320-322** No. 2: 9¼" (24.8cm), jaw length 4.8cm, depth 18mm
- 320-324** No. 3: 10" (25.4cm), jaw length 5.5cm, depth 18mm
- 320-326** No. 4: 10" (25.4cm), jaw length 6cm, depth 18mm
- 320-328** No. 5: 11" (27.9cm), jaw length 7.5cm, depth 18mm



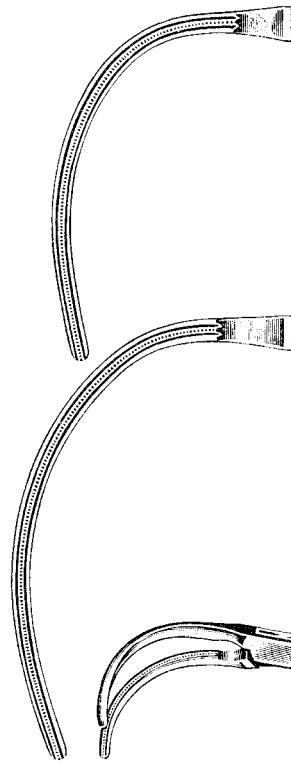
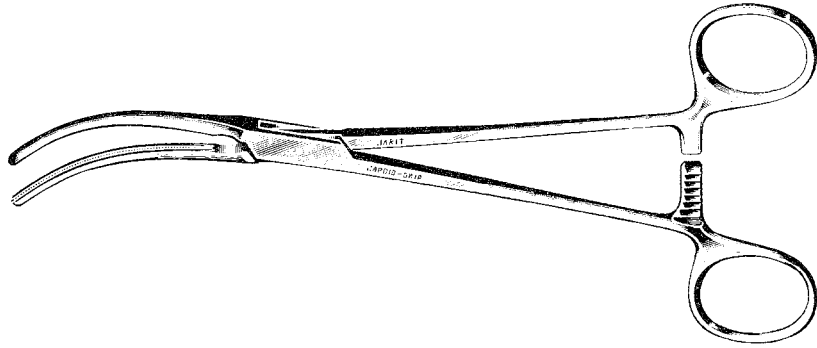
COOLEY Partial Occlusion Clamps

- 320-335** No. 1: 8" (20.3cm), jaw length 2.3cm, depth 7mm
- 320-336** No. 2: 8½" (20.6cm), jaw length 3.5cm, depth 8mm
- 320-337** No. 3: 9" (22.7cm), jaw length 5.2cm, depth 12mm
- 320-338** No. 4: 9¼" (23.5cm), jaw length 6cm, depth 12mm
- 320-339** No. 5: 11" (27.9cm), jaw length 7.3cm, depth 12mm



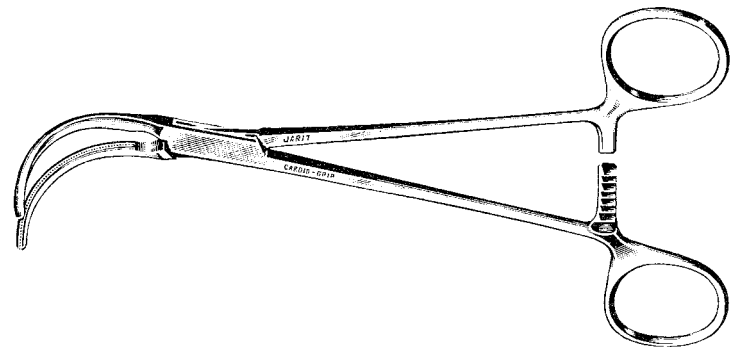
320-360 GLOVER Curved Clamp,
8 $\frac{1}{4}$ " (21cm), standard,
jaw length 4.5cm

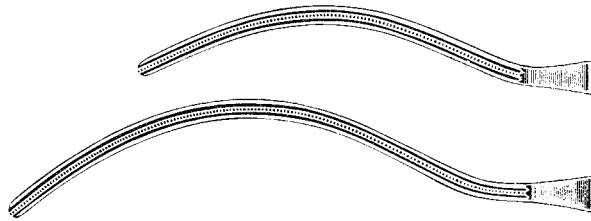
320-361 GLOVER Curved Clamp,
9 $\frac{1}{2}$ " (24.1cm), extra-long,
jaw length 5.7cm



320-362 GLOVER Curved Clamp,
7 $\frac{1}{4}$ " (18.4cm), right-angle,
jaw length 4cm

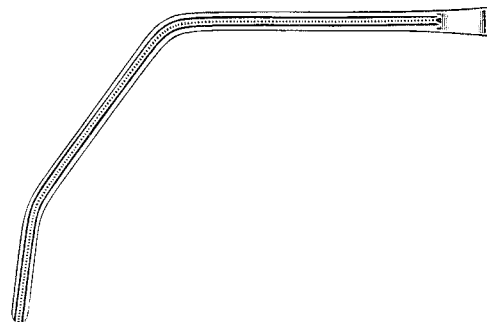
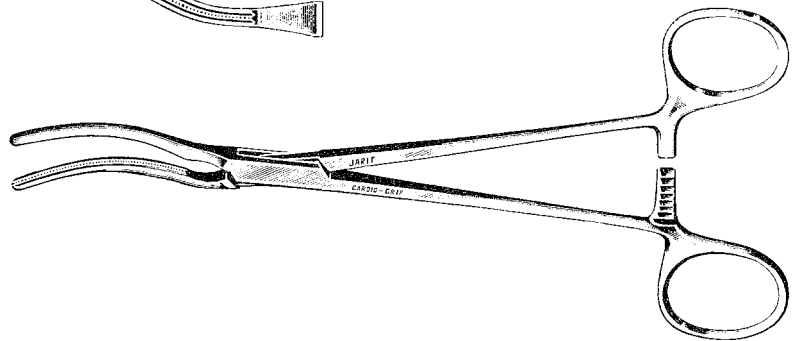
320-363 GLOVER Curved Clamp,
8" (20.3cm), right-angle,
jaw length 5.3cm



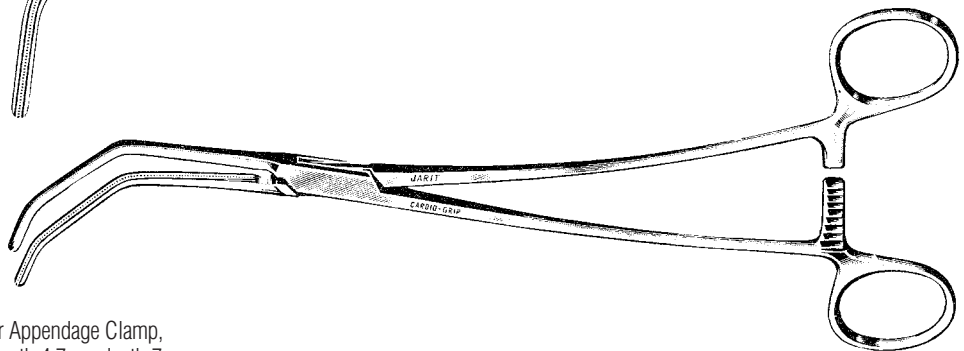


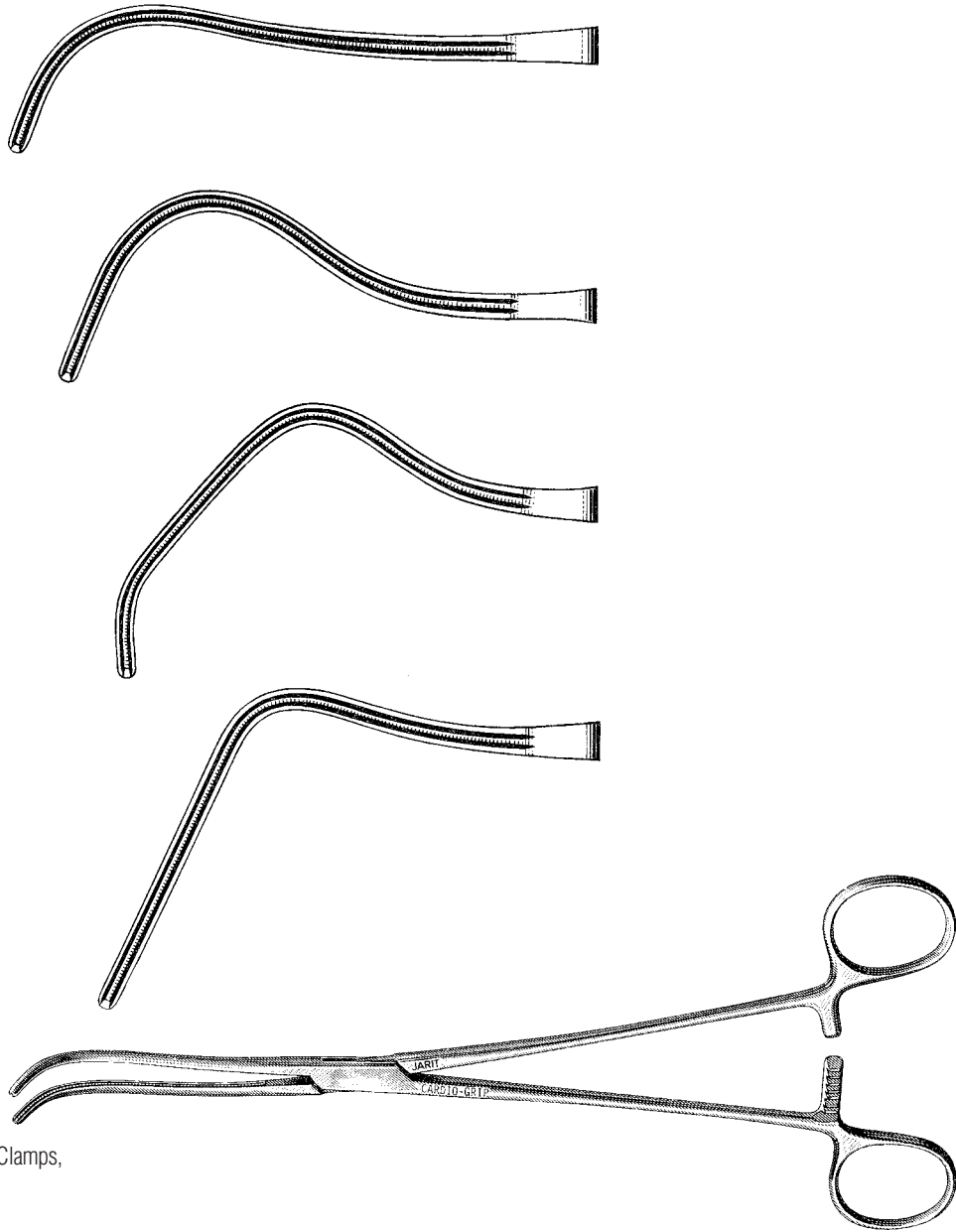
320-370 GLOVER Spoon-Shaped Clamp,
8½" (21.6cm), standard,
jaw length 4cm

320-372 GLOVER Spoon-Shaped Clamp,
9½" (24.1cm), extra-long,
jaw length 5.3cm



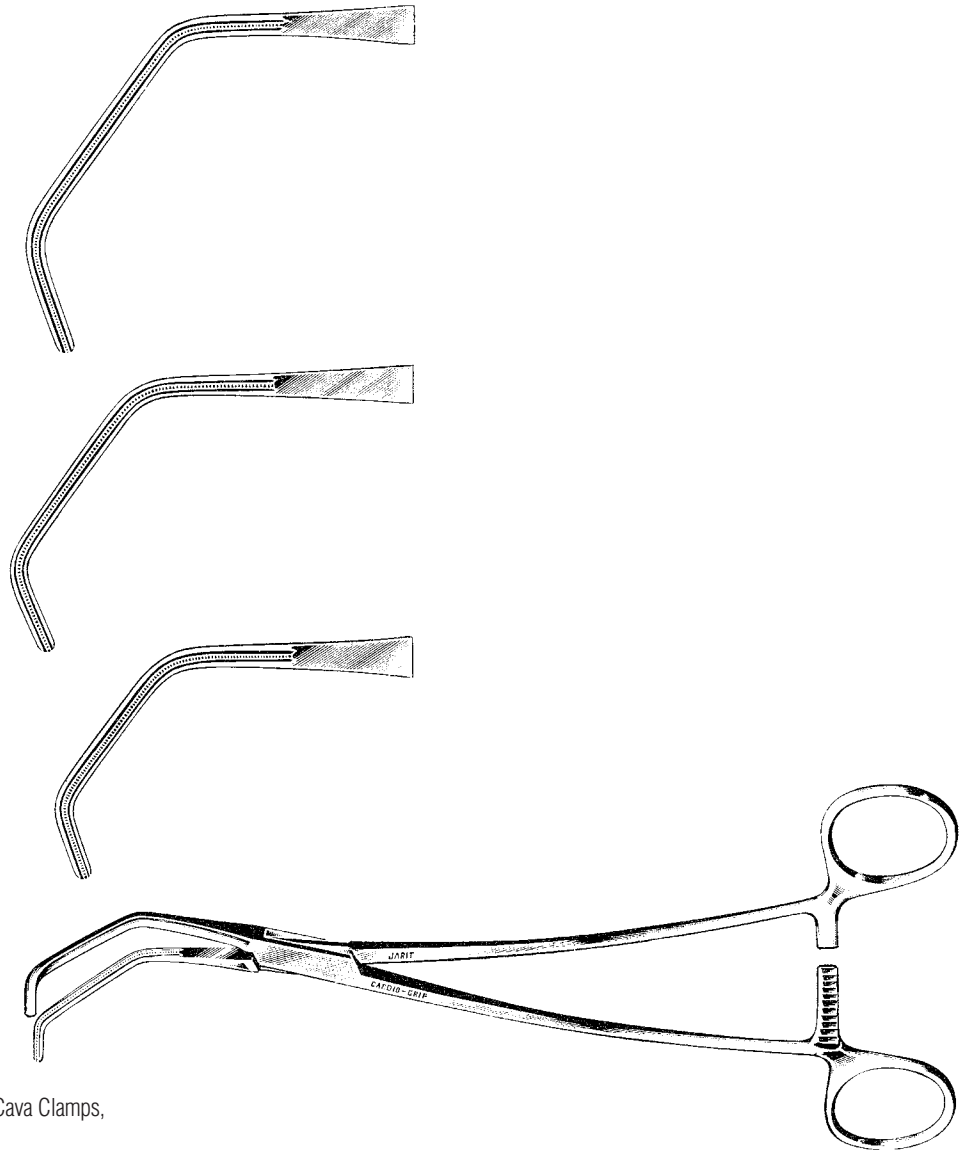
320-375 GLOVER Auricular Appendage Clamp,
9" (22.9cm), jaw length 4.7cm, depth 7mm





HARKEN Auricle Clamps,
9½" (24.1cm)

- 320-380** No. 1 curve
- 320-381** No. 2 curve
- 320-382** No. 3 curve
- 320-383** No. 4 curve

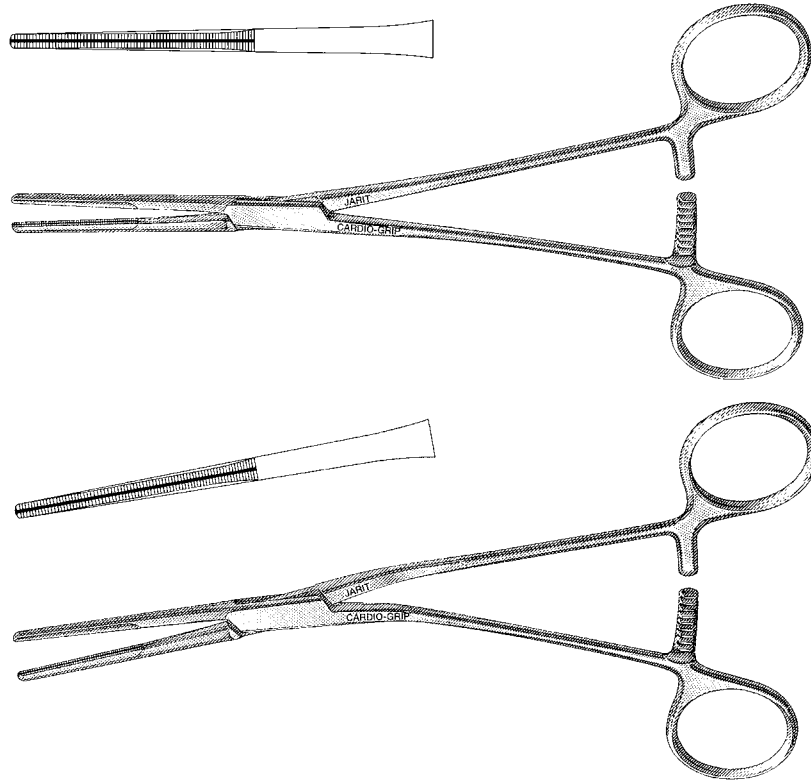


SATINSKY Vena Cava Clamps,
9 $\frac{3}{4}$ " (24.8cm)

320-390 Large: jaw length 5cm, depth 13mm

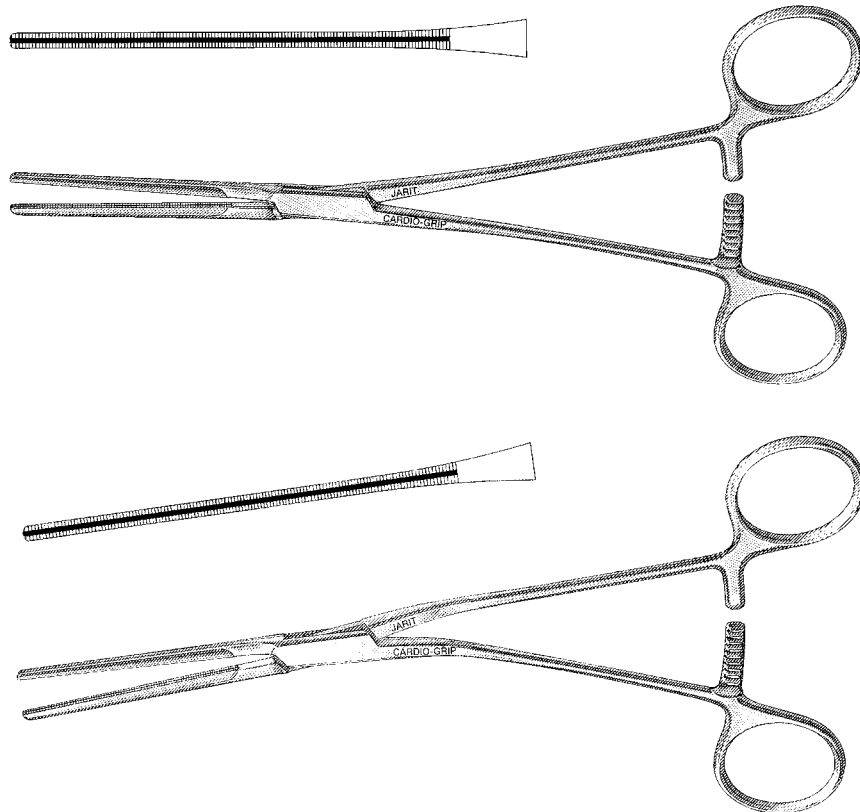
320-391 Medium: jaw length 4cm, depth 9mm

320-392 Small: jaw length 3.2cm, depth 8mm



COOLEY Patent Ductus Clamps,
8 $\frac{3}{4}$ " (21.3cm), jaw length 3cm

- 320-395 Straight
- 320-396 Angular



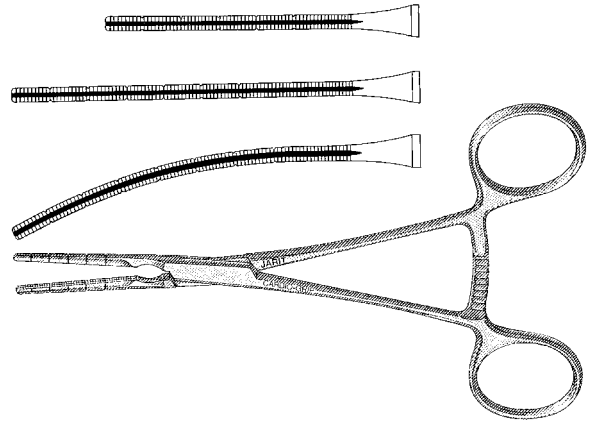
COOLEY Coarctation Clamps,
8 $\frac{3}{4}$ " (22.2cm), jaw length 5.5cm

- 320-397 Straight
- 320-398 Angular

320-400 **COOLEY** Patent Ductus Clamp,
6¼" (15.9cm), straight, jaw length 3cm

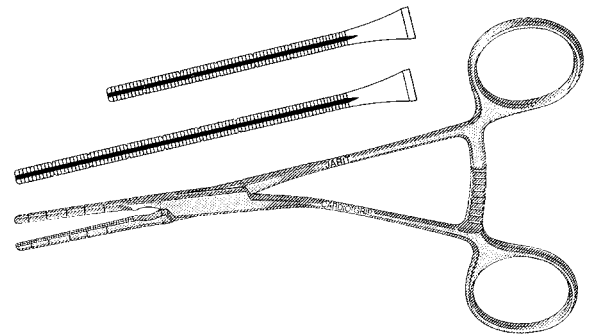
320-403 **COOLEY** Coarctation Clamp,
6¼" (17.1cm), straight, jaw length 4cm

320-406 **COOLEY** Coarctation Clamp,
6¼" (17.1cm), curved, jaw length 4.5cm

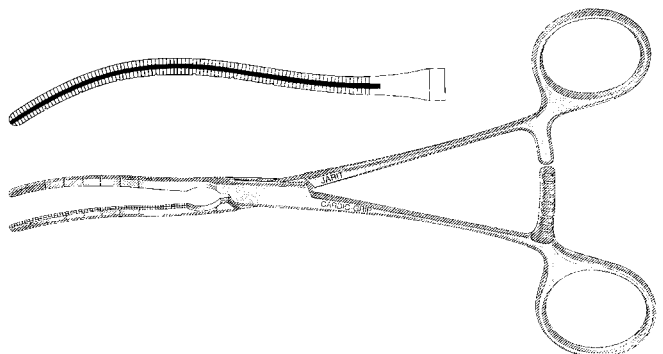


320-401 **COOLEY** Patent Ductus Clamp,
6¼" (15.9cm), angular, jaw length 3cm

320-405 **COOLEY** Coarctation Clamp,
6¼" (17.1cm), angular, jaw length 4cm



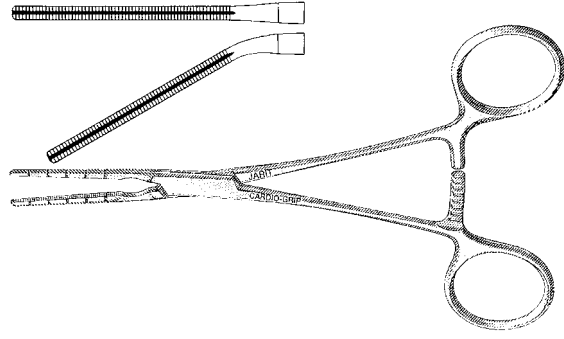
320-410 **COOLEY** Coarctation Clamp,
6¼" (17.1cm), spoon-shape, jaw length 5cm



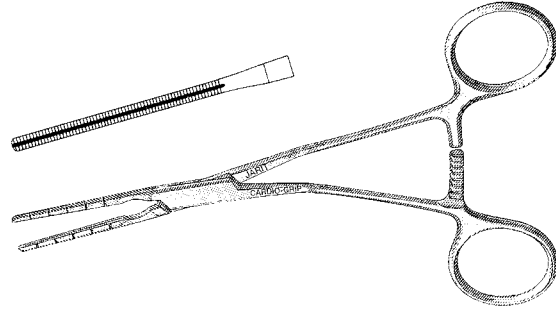
COOLEY Clamps,
5½" (14cm), jaw length 3cm

320-411 Straight jaws, straight shanks

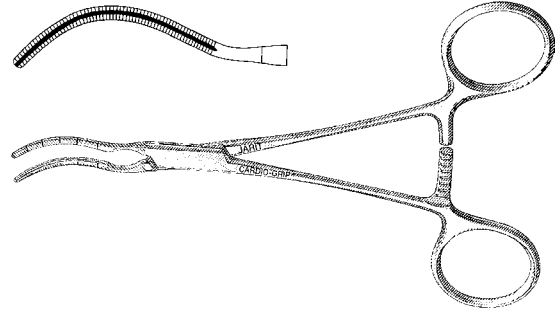
320-412 Angled jaws, straight shanks



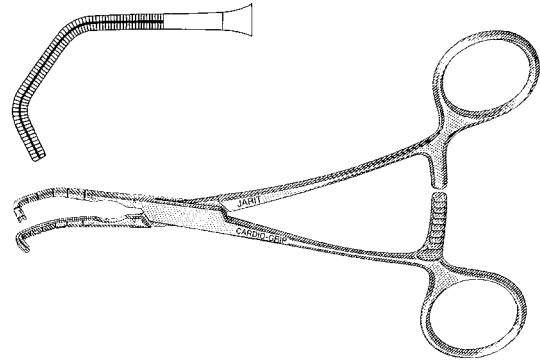
320-413 **COOLEY** Clamp,
5¼" (13.3cm), jaw length 3cm,
straight jaws, angled shanks



320-414 **COOLEY** Clamp,
5½" (14cm), spoon-shape, jaw length 3.3cm



320-415 **COOLEY-SATINSKY** Clamp,
5½" (14cm), jaw length 3.3cm, depth 5mm

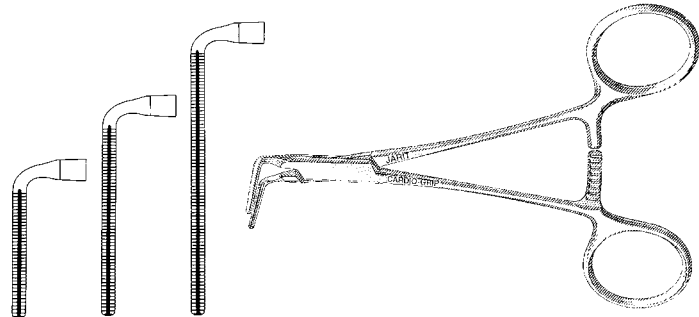


COOLEY Clamps,
4½" (11.4cm), right angle jaws

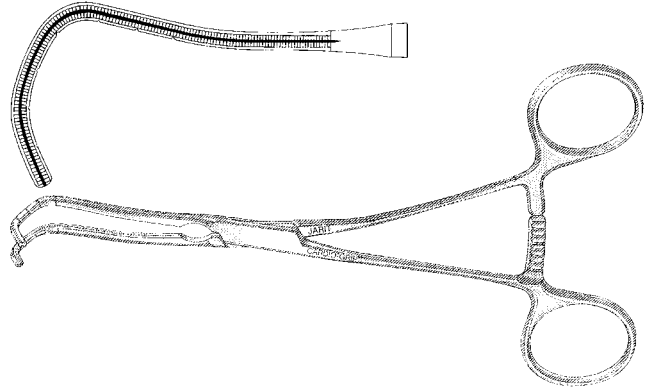
320-416 Jaw length 17mm

320-417 Jaw length 25mm

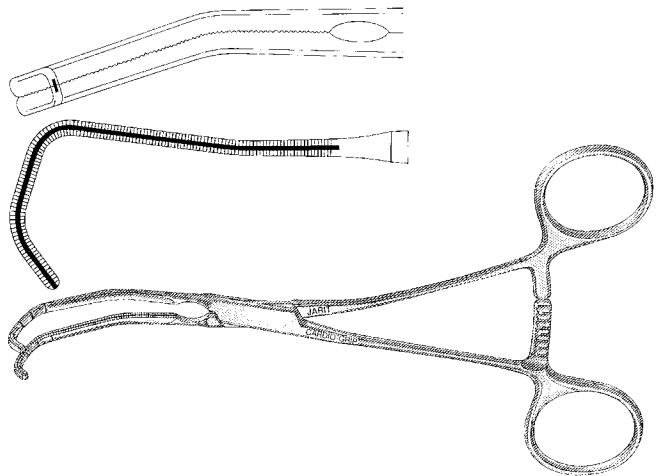
320-418 Jaw length 35mm



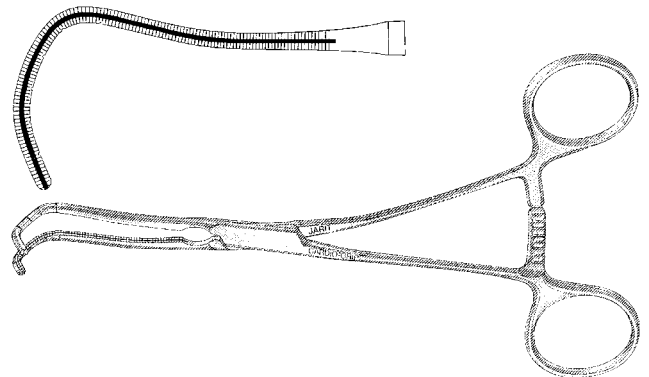
320-420 COOLEY Anastomosis Clamp,
6½" (16.5cm), standard, jaw length 2cm, depth 6mm

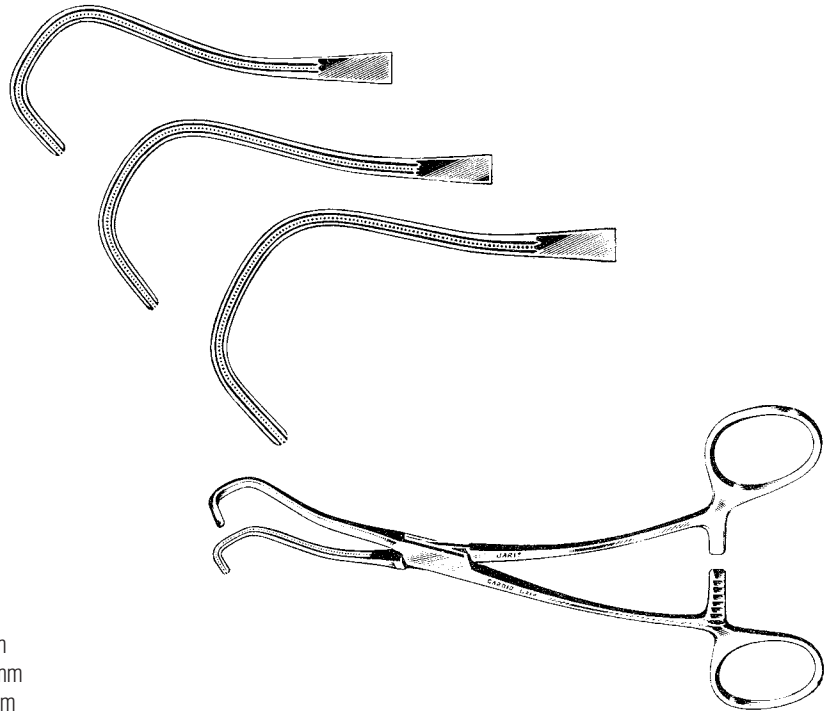


320-422 COOLEY Anastomosis Clamp,
6½" (16.5cm), modified, jaw length 1.8cm, depth 7mm



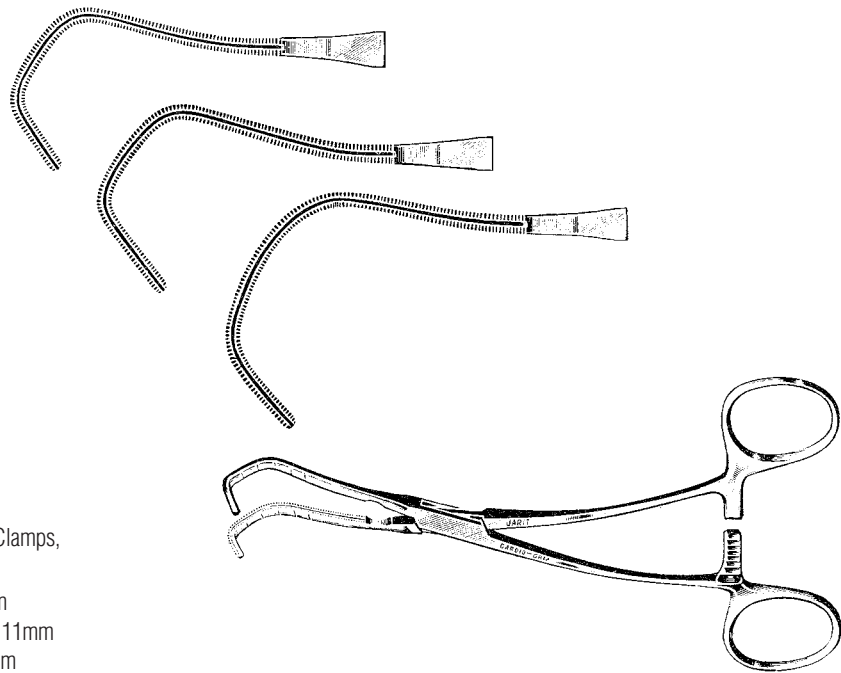
320-425 JARIT Anastomosis Clamp,
6½" (16.5cm), jaw length 2.2cm, depth 7mm





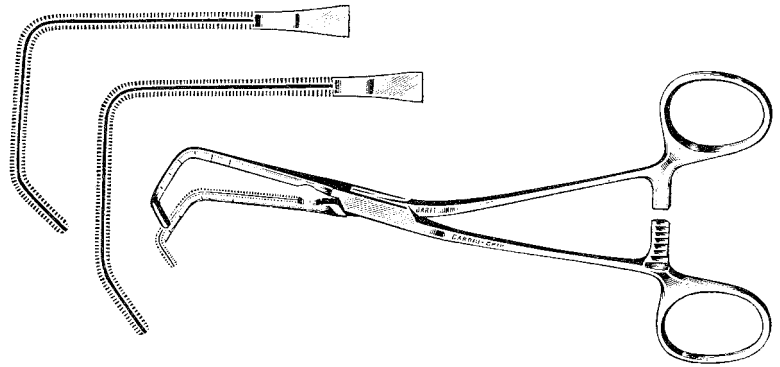
DERRA Anastomosis Clamps,
6½" (16.5cm)

- 320-430** Small: jaw length 1.5cm, depth 9mm
- 320-431** Medium: jaw length 2cm, depth 11mm
- 320-432** Large: jaw length 2.5cm, depth 15mm



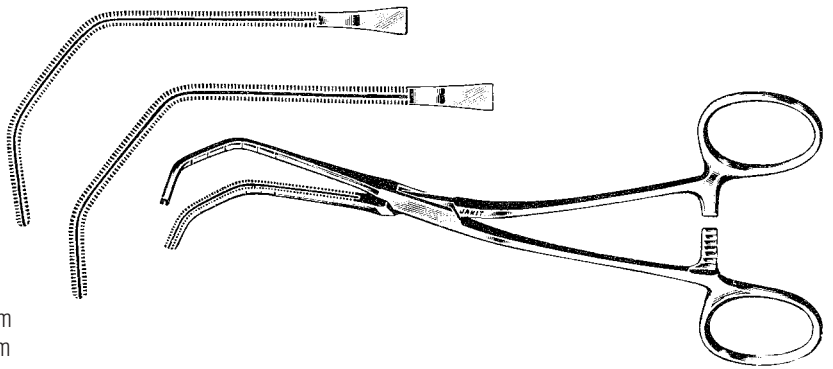
COOLEY-DERRA Anastomosis Clamps,
6½" (16.5cm)

- 320-435** Small: jaw length 2cm, depth 9mm
- 320-436** Medium: jaw length 2.9cm, depth 11mm
- 320-437** Large: jaw length 3cm, depth 15mm



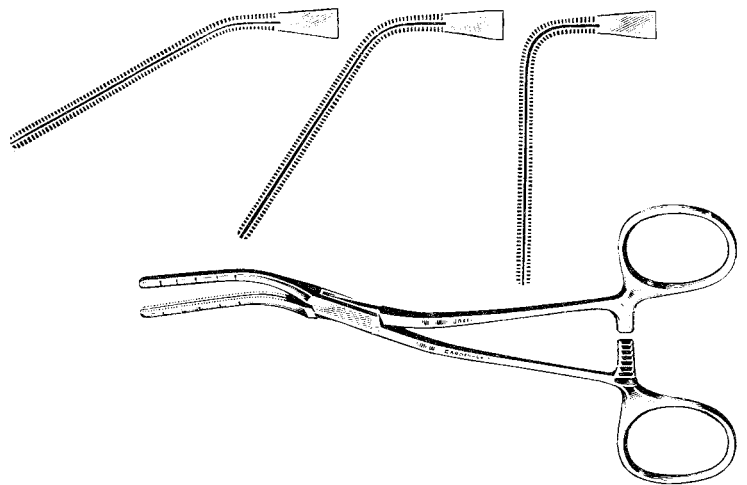
COOLEY Vascular Clamps,
6½" (16.5cm), 90° angle

- 320-440** Small: jaw length 2.7cm, depth 7mm
- 320-441** Large: jaw length 3.2cm, depth 7mm



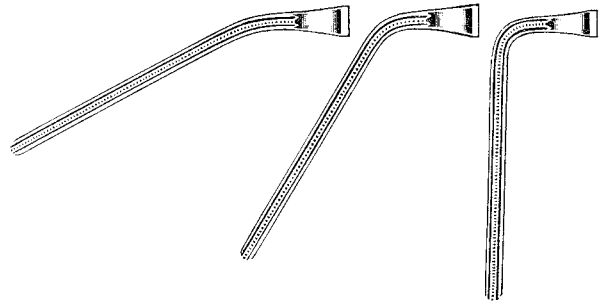
COOLEY Vascular Clamps,
6½" (16.5cm), 60° angle

- 320-445** Small: jaw length 3.2cm, depth 7mm
- 320-446** Large: jaw length 3.7cm, depth 7mm



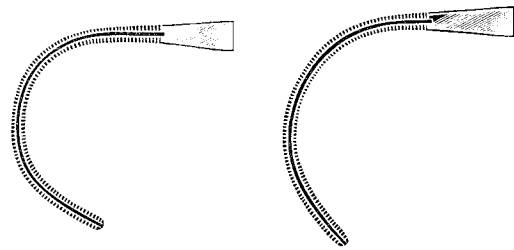
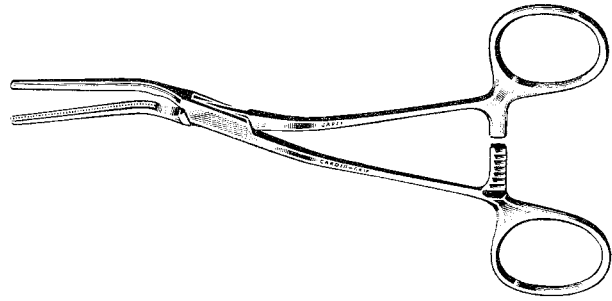
COOLEY Multi-Purpose Clamps,
jaw length 3.2cm

- 320-450** 6½" (16.5cm), 30° angle
- 320-451** 6" (15.2cm), 60° angle
- 320-452** 5½" (14cm), 90° angle



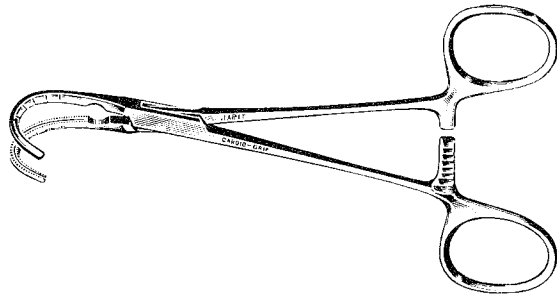
DeBAKEY Multi-Purpose Clamps,
jaw length 3.5cm

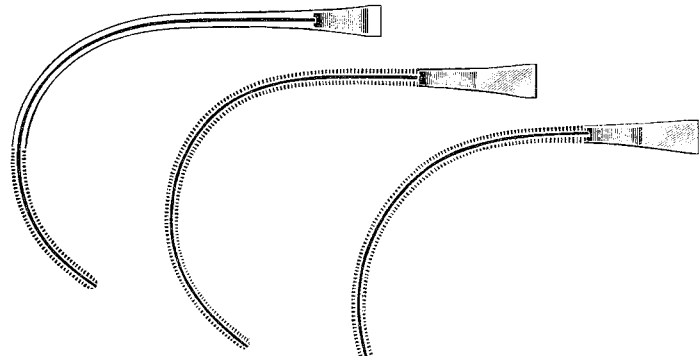
- 320-460** 6½" (16.5cm), 30° angle
- 320-461** 6" (15.2cm), 60° angle
- 320-462** 5½" (14cm), 90° angle



BECK Vessel Clamps,
6" (15.2cm), depth 1cm

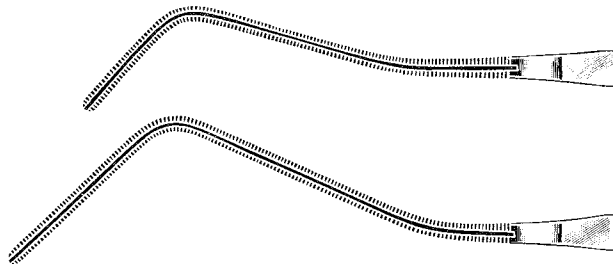
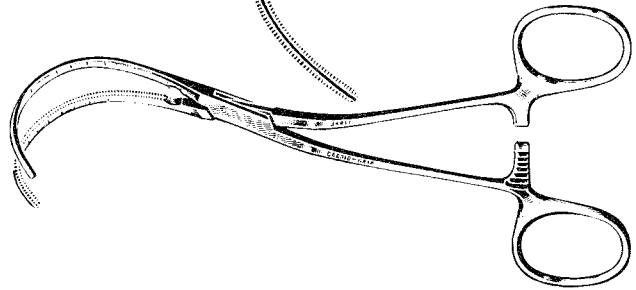
- 320-470** Small: jaw length 2.5cm
- 320-471** Large: jaw length 3cm





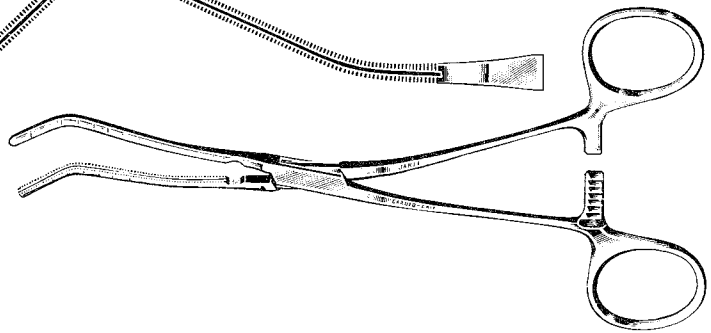
COOLEY Acutely Curved Clamps,
6½" (16.5cm)

- 320-474** Small: Ligature Carrier, jaw length 3.5cm, depth 1.2cm, length of serrations 2cm
- 320-475** Medium: jaw length 3.8cm, depth 1.5cm
- 320-476** Large: jaw length 4.5cm, depth 2cm

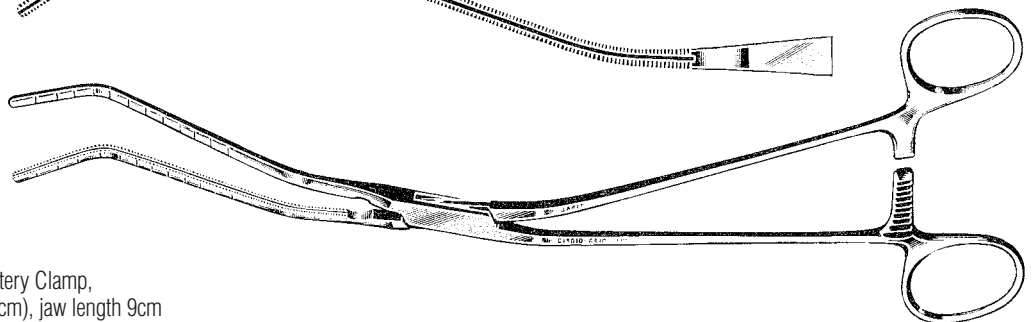


RENAL Artery Clamps

- 320-480** 7¼" (18.4cm), jaw length 5.8cm
- 320-481** 7½" (19.1cm), jaw length 6.5cm



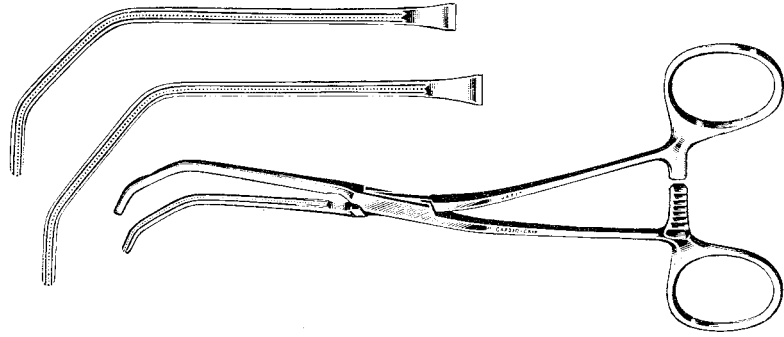
- 320-482** **RENAL** Artery Clamp,
10¾" (27.3cm), jaw length 9cm



REYNOLDS Clamps,
6¾" (17.1cm), 50° angle

320-483 Small: jaw length 2.5cm, depth 5mm

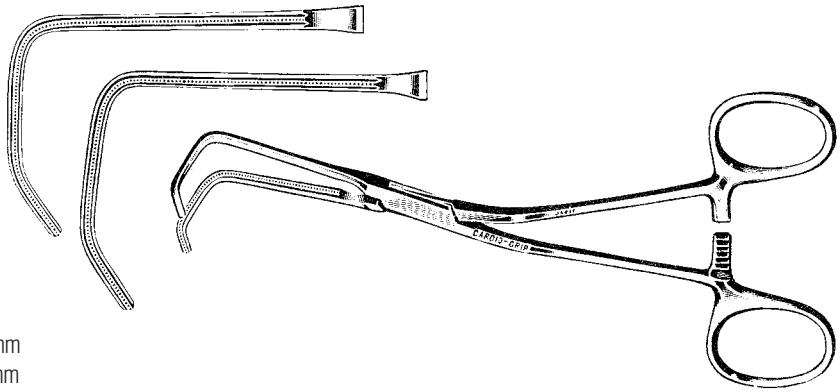
320-484 Large: jaw length 3cm, depth 6mm



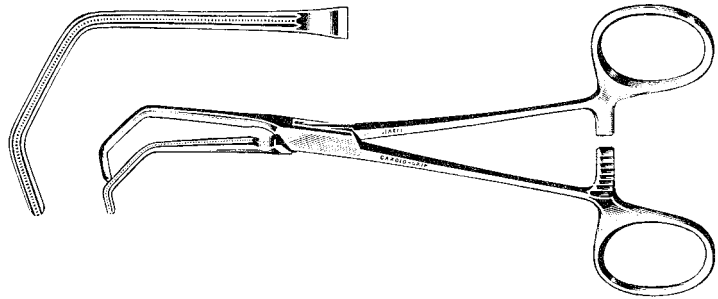
REYNOLDS Clamps,
6¾" (15.9cm), 85° angle

320-485 Small: jaw length 2.9cm, depth 5mm

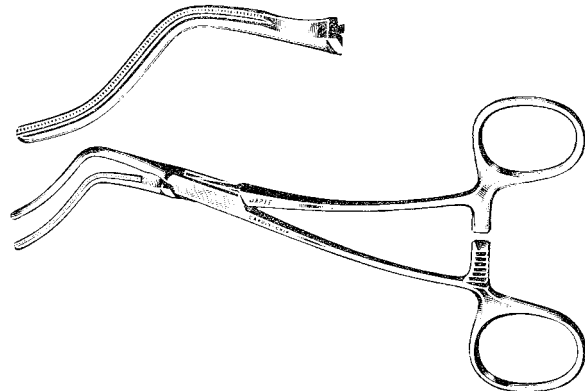
320-486 Large: jaw length 3.6cm, depth 6mm



320-487 **BECK** Miniature Aorta Clamp,
6" (15.2cm), jaw length 2.5cm, depth 6mm

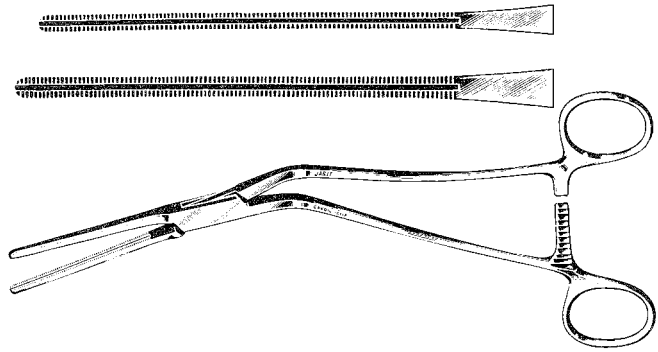


320-490 **SUBRAMANIAN** Miniature Aorta Clamp,
5½" (14cm), jaw length 3cm

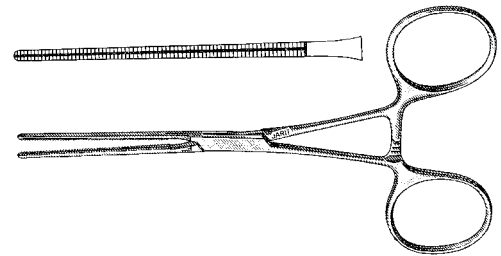


COOLEY Iliac Forceps

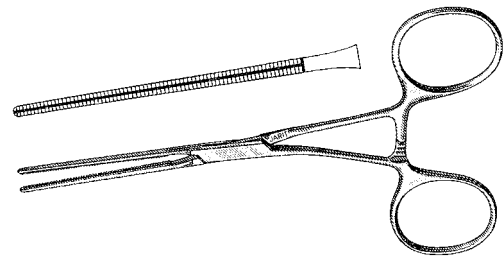
- 320-494** 8½" (21.6cm), jaw length 6cm
- 320-495** 10" (25.4cm), jaw length 6.5cm



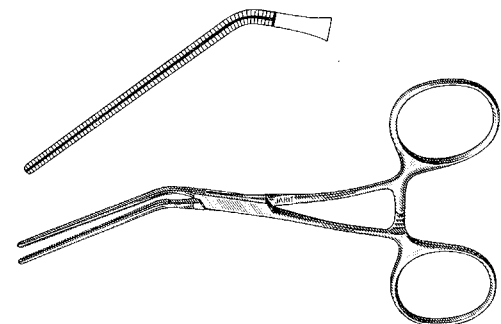
- 320-500** **COOLEY** Neonatal Vascular Clamp, 5" (12.7cm), jaw length 3.8cm, straight jaws, straight shanks



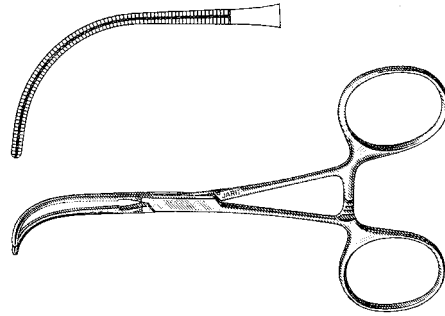
- 320-501** **COOLEY** Neonatal Vascular Clamp, 5" (12.7cm), jaw length 4cm, straight jaws, angled shanks



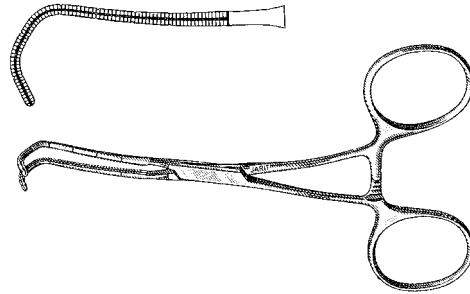
- 320-502** **COOLEY** Neonatal Vascular Clamp, 5" (12.7cm), jaw length 4cm, angled jaws, curved shanks



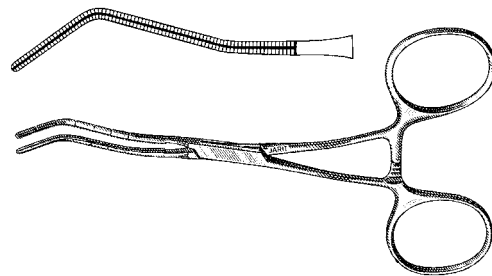
320-503 COOLEY Neonatal Vascular Clamp,
5" (12.7cm), jaw length 4cm,
curved jaws, straight shanks



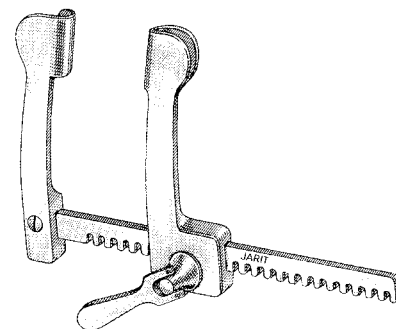
320-504 COOLEY Neonatal Vascular Clamp,
5" (12.7cm), jaw length 2cm,
partial occlusion clamp



320-505 COOLEY Neonatal Vascular Clamp,
5" (12.7cm), jaw length 3.8cm,
carotid clamp



320-510 COOLEY Neonatal Sternal Retractor,
arms and blades aluminum, ratchet bar stainless steel
Spread: 3¼" (7.9cm)
Arm length: 2¼" (5.4cm)
Blades: ¼" x ⅜" deep (1.7 x 1cm)

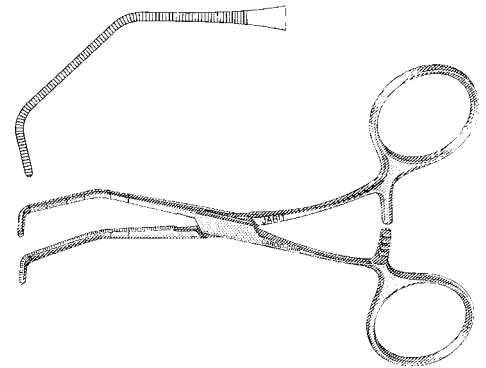
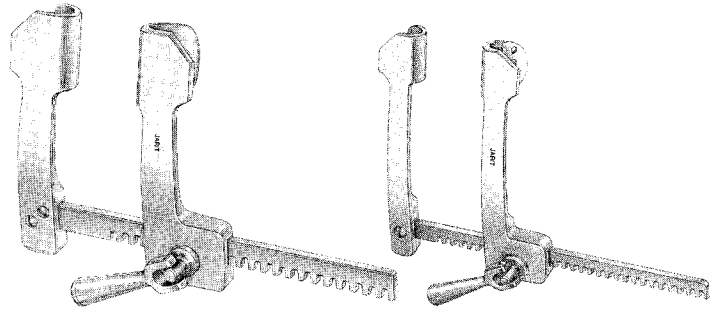


COOLEY Pediatric Aluminum Sternal Retractors,
arms and blades aluminum, ratchet bar stainless steel

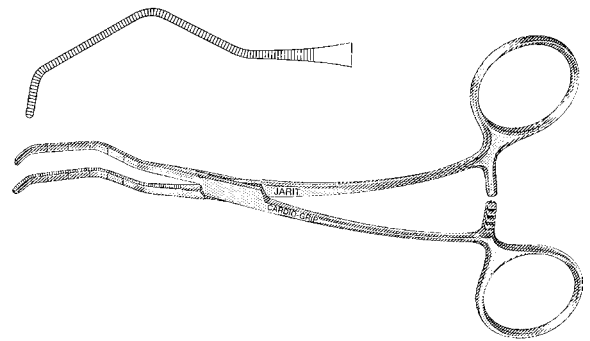
320-514 Spread: 4 $\frac{1}{2}$ " (11.7cm)
Arm length: 3 $\frac{1}{4}$ " (7.9cm)
Blades: 2.9cm x 2cm deep

320-515 Spread: 3 $\frac{3}{8}$ " (8.6cm)
Arm length: 2 $\frac{3}{4}$ " (7cm)
Blades: 1.6cm x 1.4cm deep

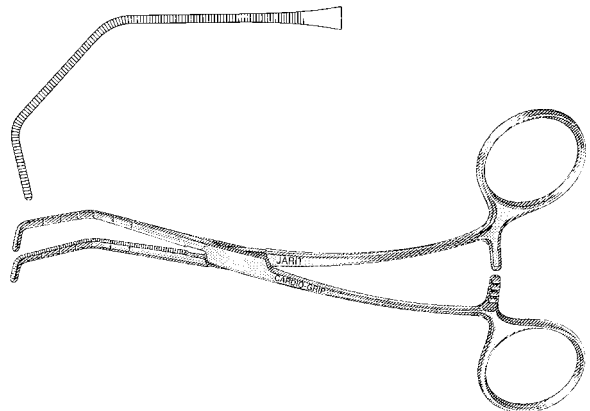
320-516 Spread: 4" (10.2cm)
Arm length: 3 $\frac{1}{2}$ " (8.6cm)
Blades: 1.9cm x 1.4cm deep



320-520 CALMAN Carotid Closure Clamp,
4 $\frac{1}{2}$ " (12.4cm), jaw length 3cm, depth 6mm

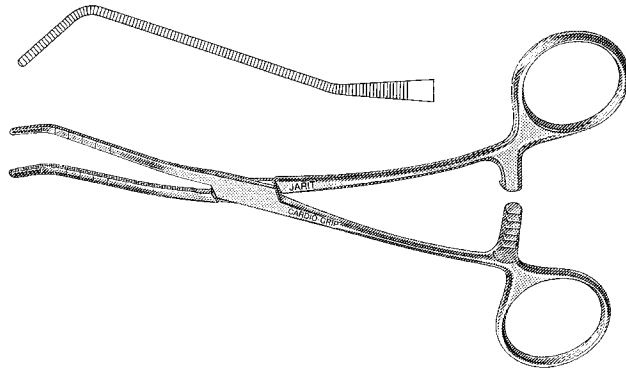


320-525 THOMPSON Carotid Closure Clamp,
6" (15.2cm), jaw length 2.3cm, depth 4mm



320-530 EXAMPLE Clamp,
6 $\frac{1}{4}$ " (15.9cm), jaw length 3cm, depth 8mm

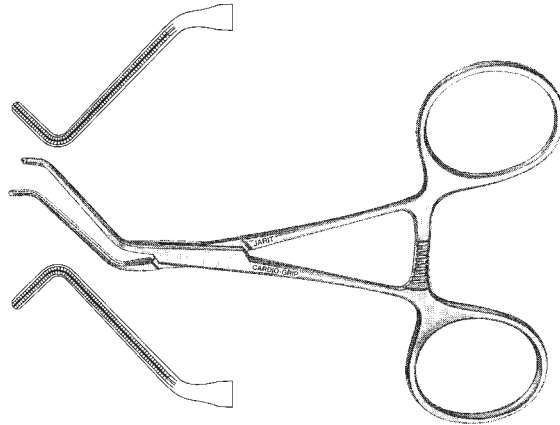
320-535 KARTCHNER Internal Carotid Clamp,
6½" (16.5cm), jaw length 5cm



TITANIUM

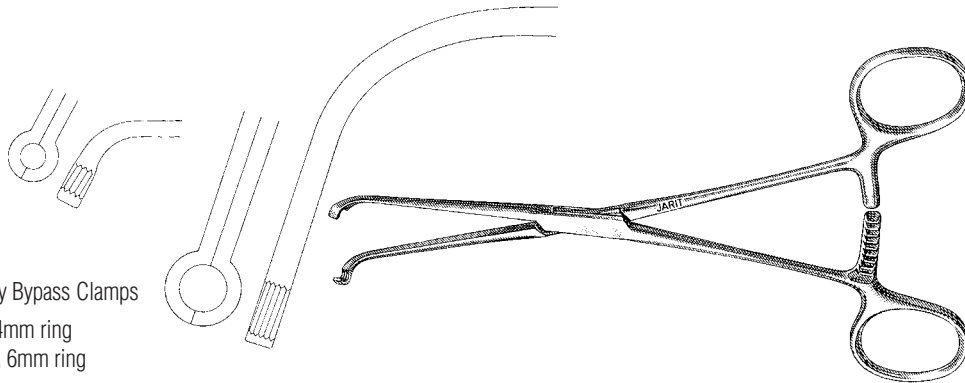
KITZMILLER Micro Clamps,
titanium, angled DeBakey jaws, 23mm jaw length,
4¼" (10.8cm)

320-540TI Left angled
320-542TI Right angled



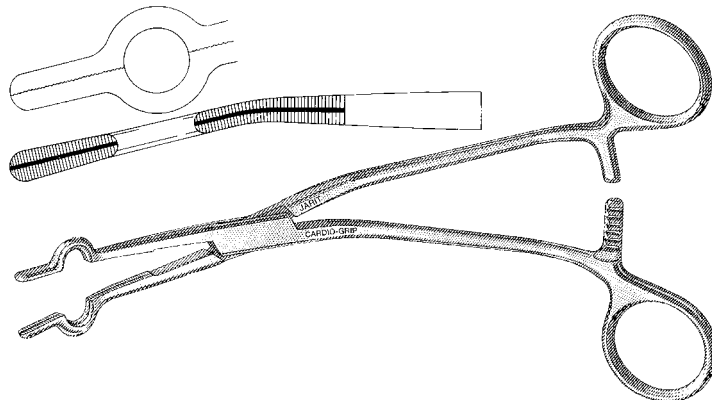
JAVID Carotid Artery Bypass Clamps

320-550 Small: 6¼" (16cm), 4mm ring
320-555 Large: 7½" (18.1cm), 6mm ring



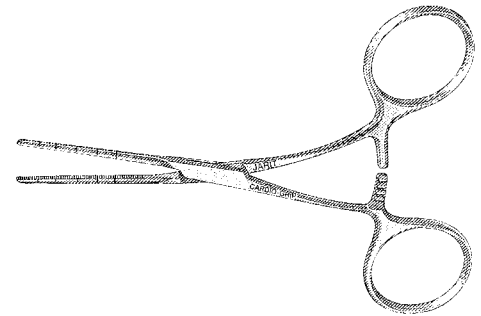
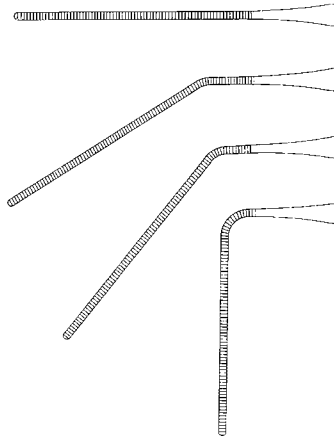
COOLEY Vena Cava Catheter Clamps

320-560 Child size, 7¾" (18.7cm), 24 Fr
320-562 Child size, 7¾" (18.7cm), 26 Fr
320-564 Adult size, 8" (20.3cm), 28 Fr
320-566 Adult size, 8" (20.3cm), 30 Fr
320-568 Adult size, 8" (20.3cm), 32 Fr
320-570 Adult size, 8" (20.3cm), 34 Fr
320-572 Adult size, 8" (20.3cm), 36 Fr

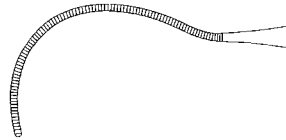


CASTANEDA Multi-Purpose Clamps,
jaw length 3.5cm

- 320-600** Straight, 4 $\frac{1}{8}$ " (12.4cm)
- 320-601** 30° angle, 5" (12.7cm)
- 320-602** 50° angle, 4 $\frac{1}{8}$ " (12.4cm)
- 320-603** 90° angle, 4 $\frac{1}{8}$ " (10.8cm)

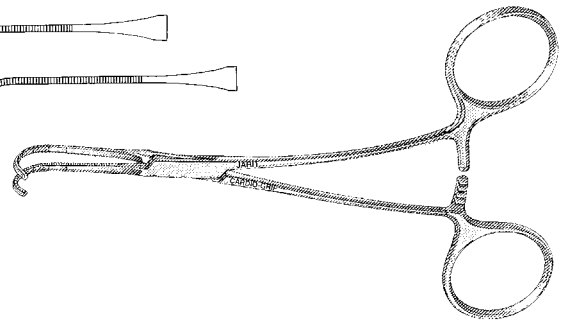
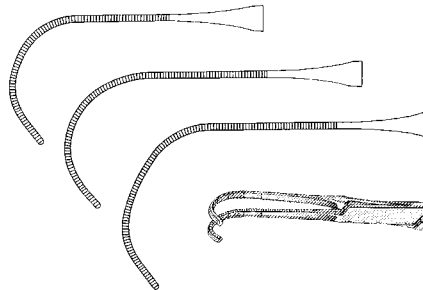


- 320-604** **CASTANEDA** Partial Occlusion Clamp,
4 $\frac{1}{8}$ " (12.4cm), spoon type,
jaw length 2.4cm, depth 8mm



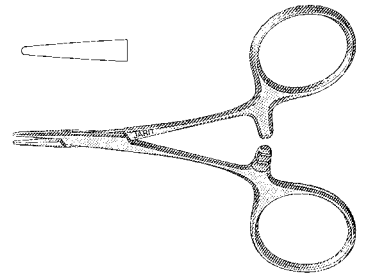
CASTANEDA Anastomosis Clamps

- 320-610** 5 $\frac{1}{8}$ " (14.6cm), jaw length 1.5cm, depth 5mm
- 320-611** 6" (15.2cm), jaw length 1.8cm, depth 6mm
- 320-612** 6 $\frac{1}{8}$ " (15.6cm), jaw length 2.1cm, depth 7mm

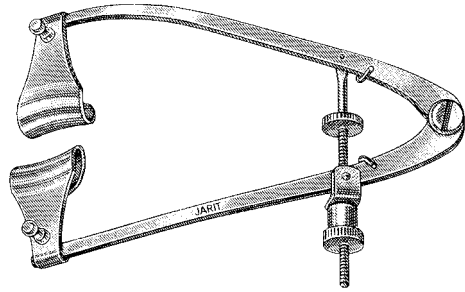


CASTANEDA Suture Tag Forceps,
3 $\frac{1}{8}$ " (9.5cm), smooth jaws,
numbered for identification

- 320-615** No. 1
- 320-616** No. 2
- 320-617** No. 3
- 320-618** No. 4

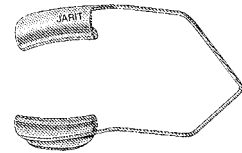


350-090 McPHERSON Eye Speculum,
14mm blades, 45mm spread



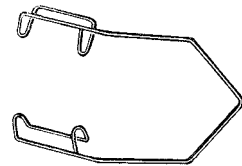
BARRAQUER Eye Specula,
solid blades

350-092 11mm blades, 12mm spread, pediatric size
350-093 14mm blades, 18mm spread

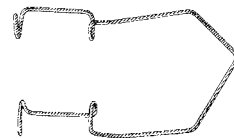


BARRAQUER Eye Specula,
open wire blades

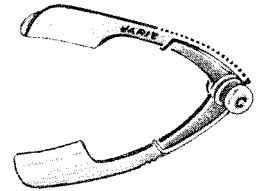
350-094 9mm blades, 14mm spread, pediatric size
350-095 14mm blades, 20mm spread



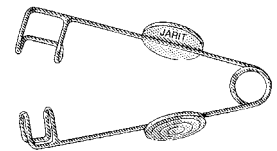
350-096 KRATZ-BARRAQUER Eye Speculum,
open wire blades,
14mm blades, 18mm spread



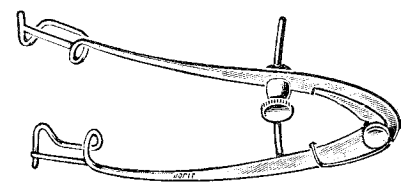
350-097 SAUER Eye Speculum,
infant size, 11mm blades, 20mm spread



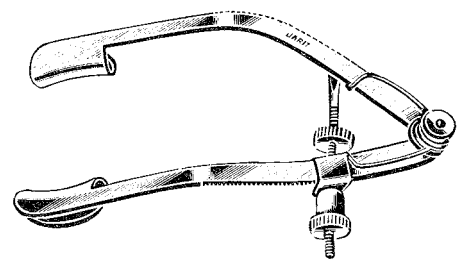
350-098 ALFONSO Eye Speculum,
newborn size, 5mm blades, 27mm spread



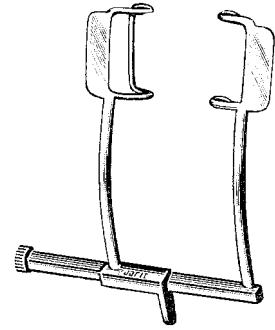
WILLIAMS Eye Specula
350-100 11mm blades, 23mm spread
350-101 14mm blades, 35mm spread



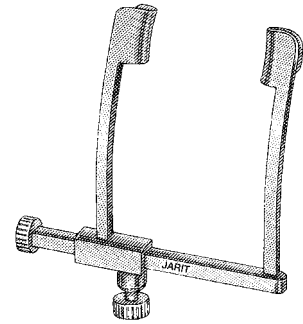
350-105 LANCASTER Eye Speculum,
15mm blades, 31mm spread



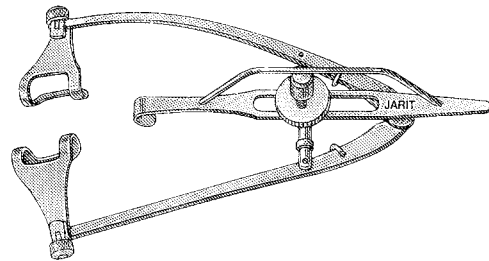
350-110 **WIENER** Eye Speculum,
14mm blades, 25mm spread



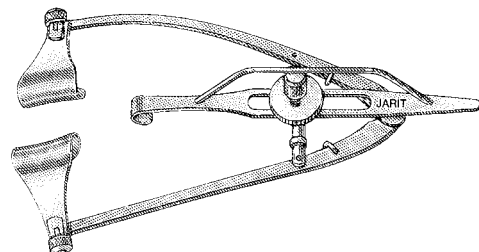
350-112 **COOK** Eye Speculum,
infant size, with locking screw,
7mm blades, 23mm spread



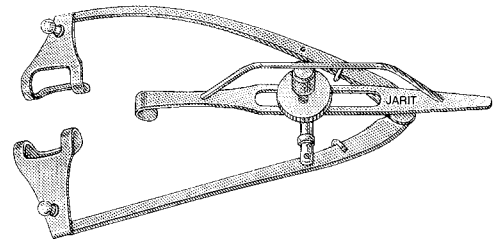
350-118 **MAUMENEE-PARK** Eye Speculum,
fenestrated blades and canthus bar,
14mm blades, 36mm spread



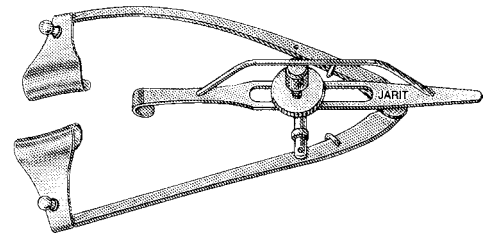
350-119 **MAUMENEE-PARK** Eye Speculum,
solid blades and canthus bar,
14mm blades, 36mm spread



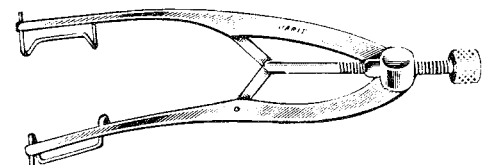
350-120 **PARK-GUYTON** Eye Speculum,
fenestrated blades and canthus bar,
14mm blades, 41mm spread



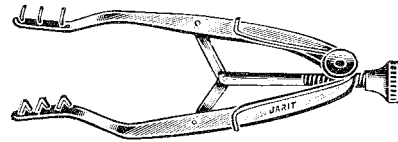
350-121 **PARK-GUYTON** Eye Speculum,
solid blades and canthus bar,
14mm blades, 41mm spread



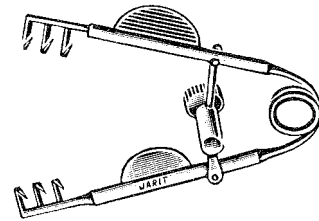
CASTROVIEJO Eye Specula
350-125 13mm blades, 32mm spread
350-126 15mm blades, 33mm spread



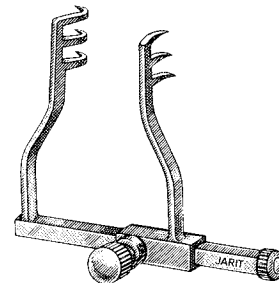
350-140 **STEVENSON** Lacrimal Sac Retractor,
3mm semi-sharp prongs, 20mm spread



350-142 **AGRICOLA** Lacrimal Sac Retractor,
4mm sharp prongs, 30mm spread

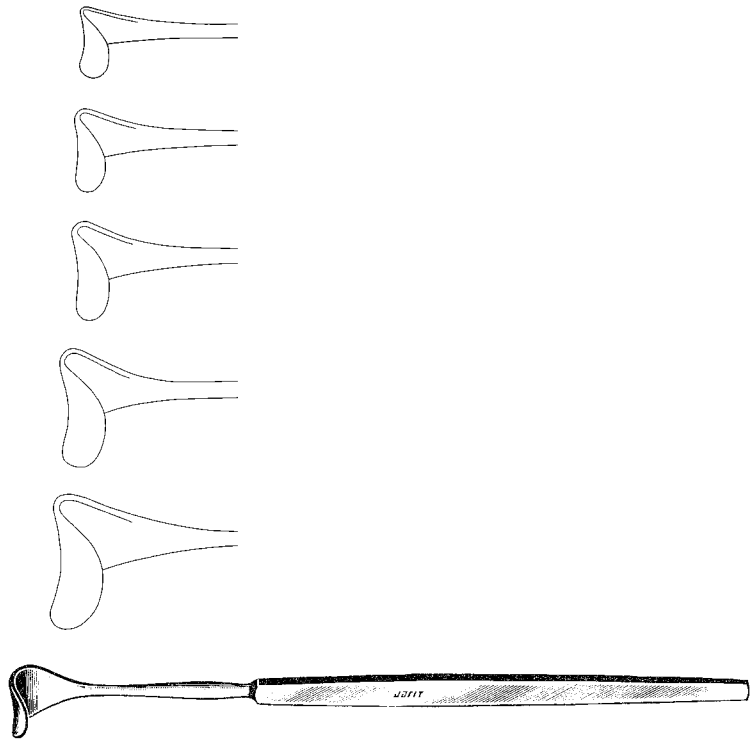


350-144 **GOLDSTEIN** Lacrimal Sac Retractor,
4mm sharp prongs, 16mm spread



DESMARRES Lid Retractors,
5½" (14cm)

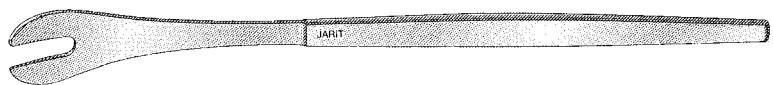
- 350-149** Size 0: 10mm
- 350-150** Size 1: 12mm
- 350-151** Size 2: 14mm
- 350-152** Size 3: 16mm
- 350-153** Size 4: 18mm



- 350-155** **JAFFE** Lid Retractor,
1½" (4.1cm), pair,
15mm wide curved blades



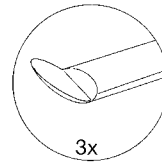
- 350-160** **SCHEPENS** Orbital Retractor,
14mm wide x 56mm blade



350-210 **WHEELER** Discission Knife,
4 1/4" (11.7cm), 1mm x 18mm blade

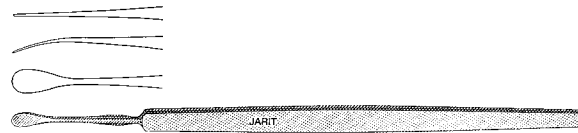


350-250 **PAUFIQUE** Graft Knife,
4 1/4" (10.5cm), 1.6mm x 1.75mm angled blade

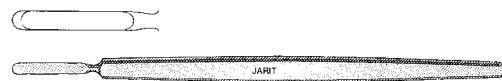


GILL Corneal Knives,
4 1/4" (12cm), 3mm x 18mm blade

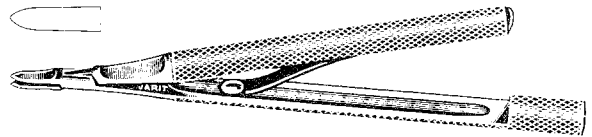
350-255 Straight
350-256 Curved



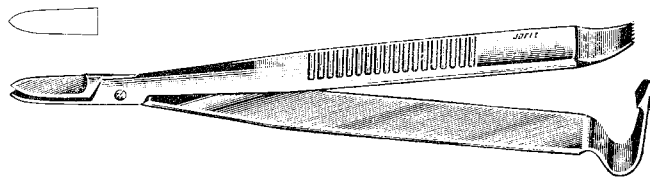
350-260 **TOOKE** Corneal Knife,
4 1/4" (10.5cm), 3mm x 18mm blade



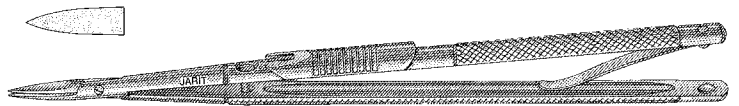
350-290 CASTROVIEJO Blade Breaker and Holder,
5 $\frac{1}{2}$ " (13cm), 12mm smooth jaws,
round knurled handle with end lock



350-292 JARIT Blade Breaker and Holder,
4 $\frac{3}{4}$ " (11.1cm), 12mm smooth jaws,
flat grooved handle with spring lock



350-294 CASTROVIEJO Blade Breaker and Holder,
5 $\frac{1}{2}$ " (14.3cm), 12mm STARDUST jaws,
round knurled handle with slide lock





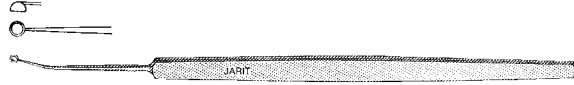
URETTES AND FOREIGN BODY SPUDS

MEYHOEFFER Chalazion Curettes,
5" (12.7cm)

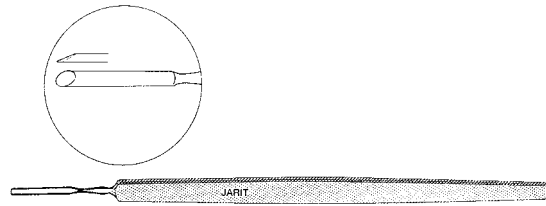
- 350-300** Size 3-0: 0.5mm diameter
- 350-301** Size 2-0: 1mm diameter
- 350-302** Size 0: 1.5mm diameter
- 350-303** Size 1: 2mm diameter
- 350-304** Size 2: 2.5mm diameter
- 350-305** Size 3: 3mm diameter



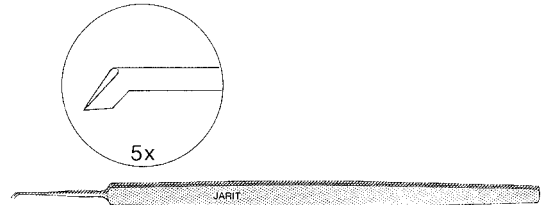
350-310 GILLS-WELSH Curette Capsule Polisher,
5 1/2" (13cm), 2mm cup,
45° angled shaft, 8mm from tip to bend



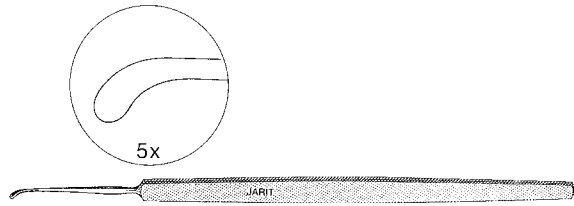
350-320 DIX Foreign Body Spud,
4 3/4" (12.1cm)



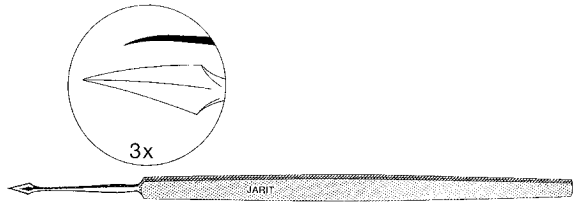
350-321 FRANCIS Foreign Body Spud,
4 3/4" (11.7cm)



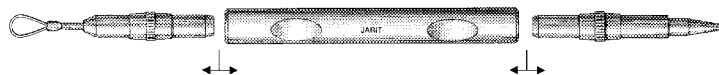
350-322 LA FORCE Foreign Body Spud,
4 3/4" (11.7cm)



350-325 JARIT Foreign Body Needle,
4 3/4" (12.4cm), curved blade

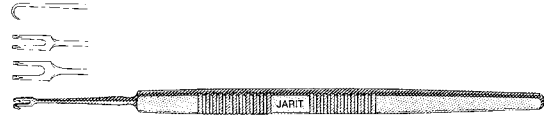


350-330 JARIT Eye Magnet
with foreign body loop



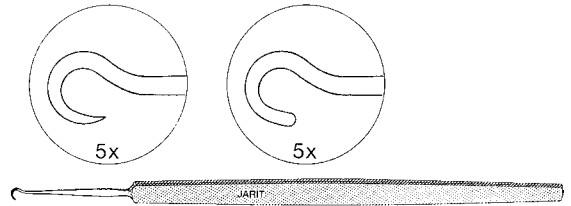
JARIT Fixation Hooks,
5" (12.7cm), 2 sharp prongs

- 350-340** 1.5mm spread between tips
- 350-341** 2.0mm spread between tips



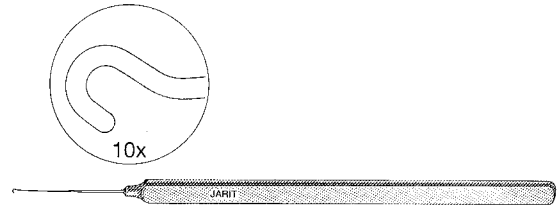
TYRELL Hooks,
4 1/4" (12.1cm), 2mm

- 350-344** Sharp
- 350-345** Blunt



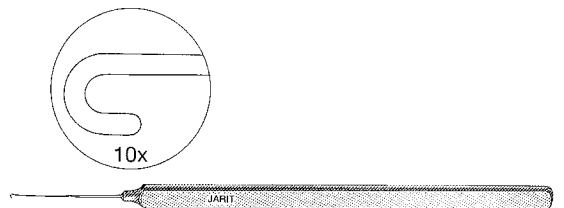
SHEPARD Iris Hook,
4 1/4" (12.4cm), 1mm, blunt

- 350-347**

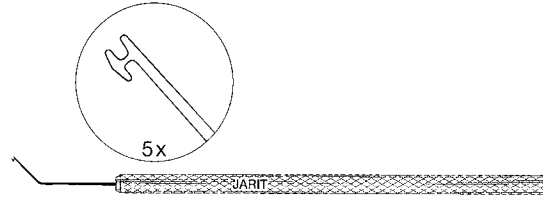


BONN Iris Hook,
4 1/4" (12.4cm), 0.3mm, blunt

- 350-348**

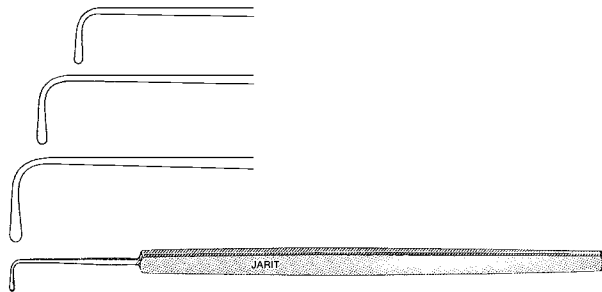


350-349 HIRSCHMAN Iris Hook,
 4¾" (12.1cm), 0.75mm hook,
 45° angled shaft, 9mm from tip to bend

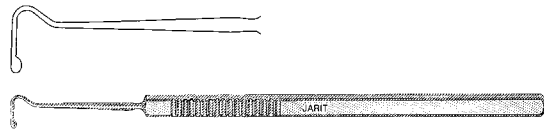


VON GRAEFE Strabismus Hooks,
 5½" (14cm)

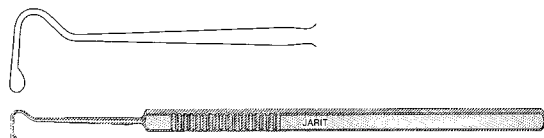
- 350-350** Size 1: 7.5mm hook
- 350-351** Size 2: 8.5mm hook
- 350-352** Size 3: 10.5mm hook



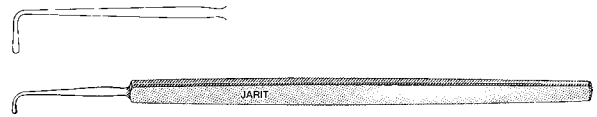
350-353 JAMESON Muscle Hook,
 5" (12.7cm), 8mm hook, 1.4mm tip



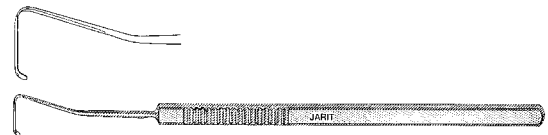
350-354 JAMESON Muscle Hook,
 5¾" (13.3cm), 10mm hook, 2mm tip



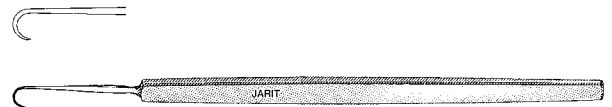
350-355 **STEVENS** Tenotomy Hook,
5" (12.7cm), 6mm hook



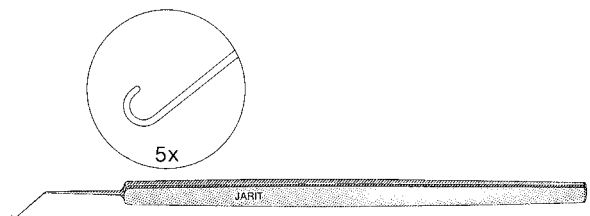
350-357 **GREEN** Strabismus Hook,
5 1/2" (13cm), 10mm hook



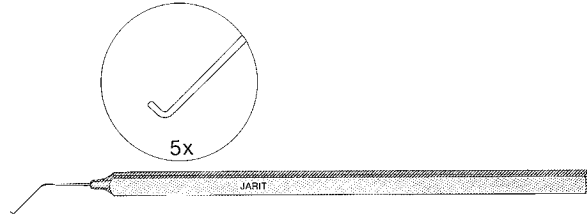
350-360 **O'CONNOR** Hook,
5" (12.7cm), 4.5mm hook



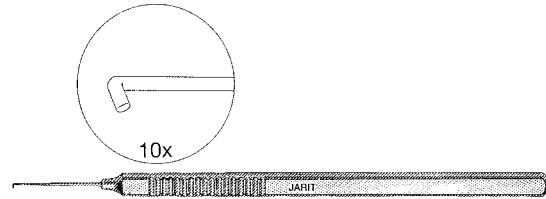
350-362 **CLAYMAN** Iris Hook,
4 3/8" (11.7cm), 0.3mm hook,
45° angled shaft, 9mm from tip to bend



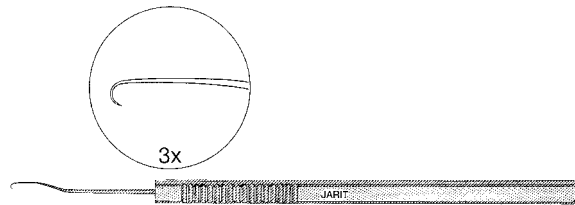
350-363 CLAYMAN Guide,
4½" (11.4cm), 0.2mm hook,
45° angled shaft, 10mm from tip to bend



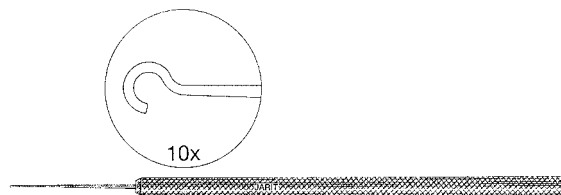
350-365 SINSKEY Iris and I.O.L. Hook,
4½" (11.4cm), 0.2mm hook



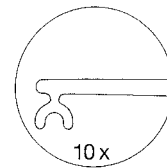
350-366 SINSKEY Modified Hook,
4¾" (12.1cm), 0.2mm hook,
curved shaft



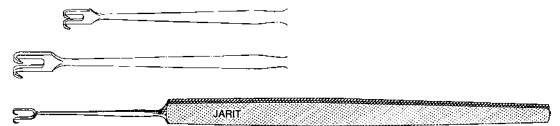
350-368 KNOLLE Iris Hook,
4¾" (12.4cm), 0.5mm hook



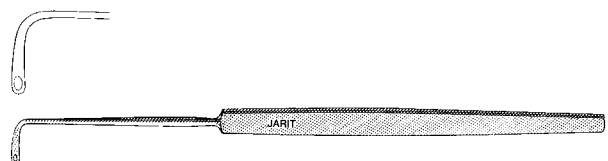
350-369 KUGLEN Iris Hook and Lens Manipulator,
4 $\frac{3}{8}$ " (11.7cm), 0.5mm "K" hook



GUTHRIE Fixation Hooks,
4 $\frac{3}{8}$ " (12.1cm)
350-370 1.5mm spread between tips
350-371 2.5mm spread between tips



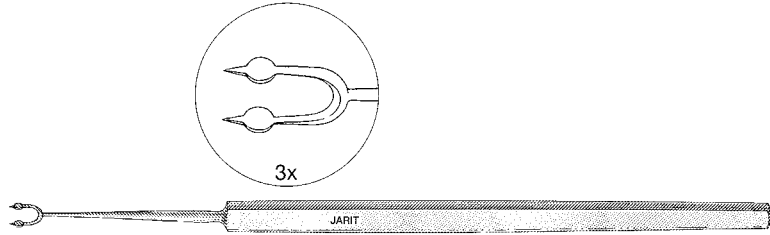
350-372 GASS Retinal Detachment Hook,
5 $\frac{1}{4}$ " (14.6cm), 13mm hook





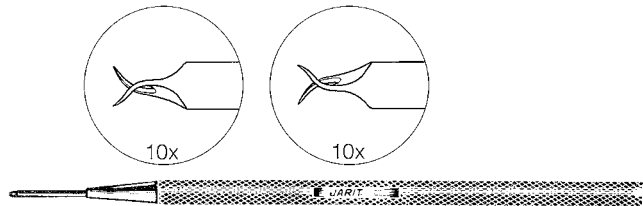
SPATULAS, RETRACTORS AND HOOKS

350-377 BURCH Fixation Pick,
5" (12.7cm),
3mm spread between points

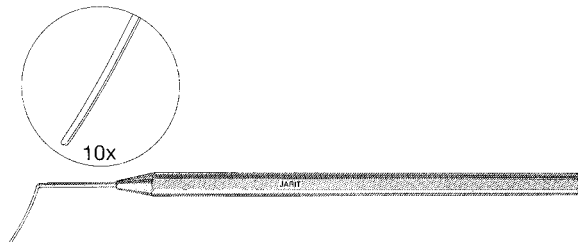


JARIT Scleral Twist Fixation Hooks,
4 1/2" (10.8cm)

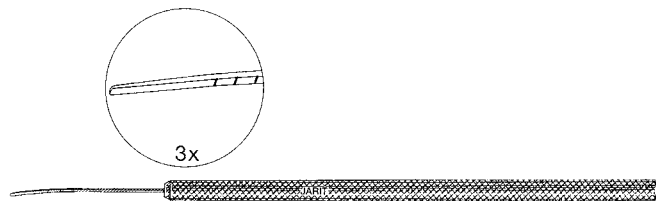
350-380 Right
350-381 Left



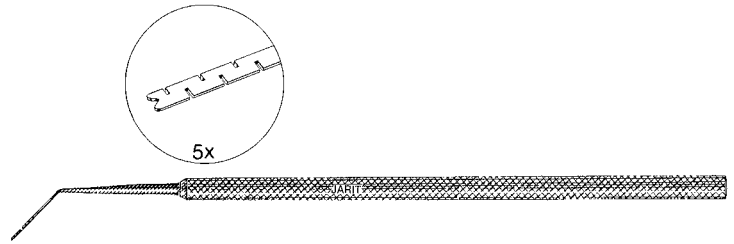
350-383 BARRAQUER Iris Spatula,
4 1/2" (11.4cm), 0.25mm x 15mm angled blade



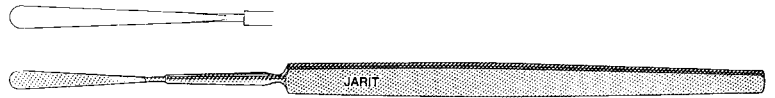
350-384 KNOLLE Lens Nucleus Spatula and Gauge,
5" (12.7cm), 30mm blade,
with markings at 5mm, 6mm and 7mm from tip



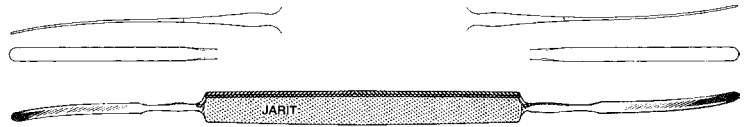
350-385 HIRSCHMAN Iris Lens Spatula,
4 $\frac{1}{4}$ " (12.4cm), 10mm angled blade,
notched on sides and tip



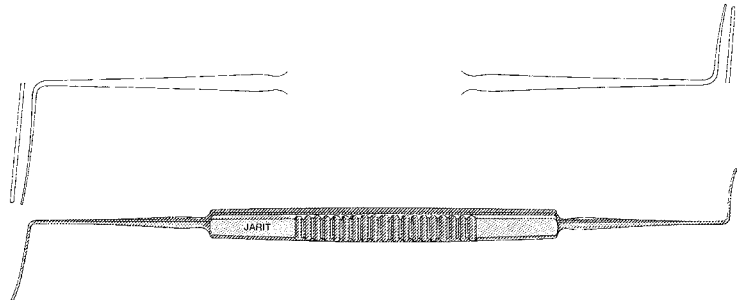
350-387 KIMURA Platinum Spatula,
5 $\frac{1}{4}$ " (14.9cm), 4mm x 30mm blade



350-390 WHEELER Cyclodialysis Spatula,
5 $\frac{1}{4}$ " (13.3cm), double ended, silver,
2mm x 22mm blades



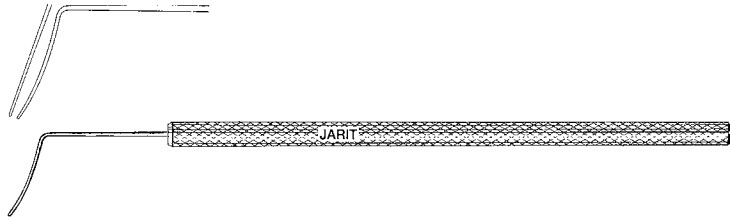
350-392 CASTROVIEJO Cyclodialysis Spatula,
5 $\frac{1}{2}$ " (13.6cm), double ended,
0.5mm x 10mm and 15mm blades



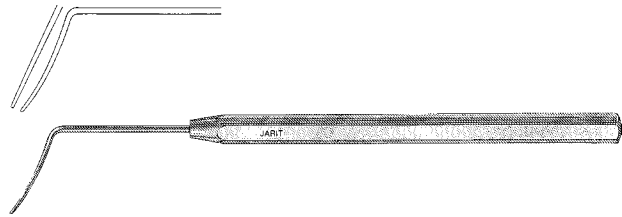
350-395 WECKER Iris Spatula,
5" (12.7cm), malleable, silver,
2.6mm x 32mm blade



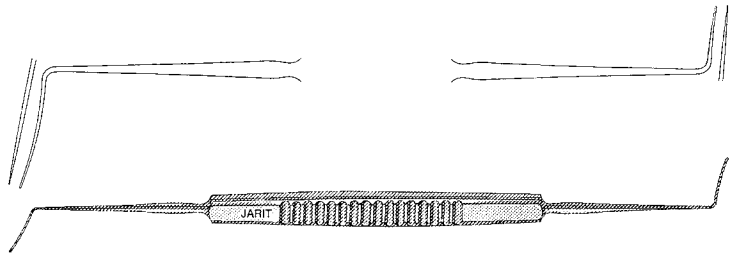
350-397 BARRAQUER Cyclodialysis Spatula,
4 $\frac{1}{4}$ " (12cm), 0.5mm x 15mm angled blade,
round knurled handle



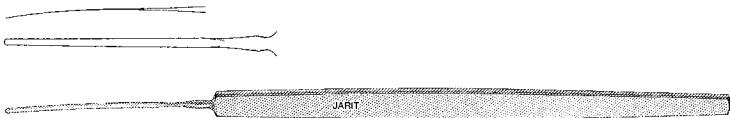
350-398 BARRAQUER Iris Spatula,
3 $\frac{1}{2}$ " (9cm), 0.5mm x 15mm angled blade,
hexagonal handle



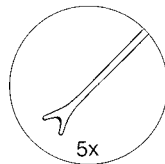
350-400 CASTROVIEJO Synechia Spatula,
5 $\frac{1}{2}$ " (14cm), double ended,
0.5mm x 10mm and 15mm blades



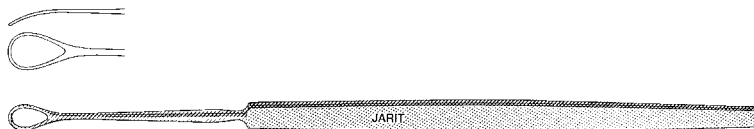
350-405 CULLER Iris Spatula,
5" (12.7cm), sterling silver blade,
1mm x 28mm



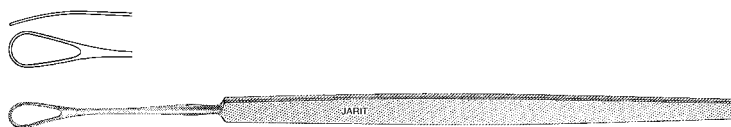
350-410 BECHERT Nucleus Rotator,
5" (12.7cm), "Y" shape tip,
shaft angled 7mm from tip to bend



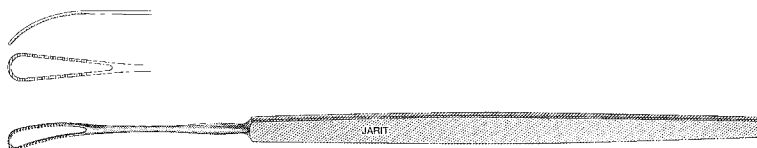
350-415 LEWIS Lens Loop,
5½" (14cm), 6mm wide x 7mm loop



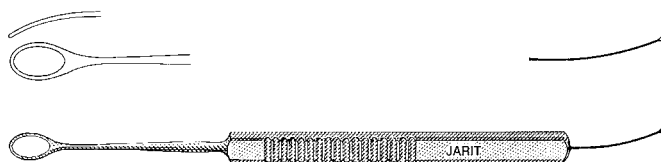
350-420 NEW ORLEANS Lens Loop,
5½" (14cm), 5mm wide x 10mm loop



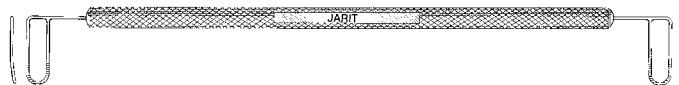
350-425 WILDER Lens Loop,
5½" (14cm), 4mm wide x 15mm loop,
serrated



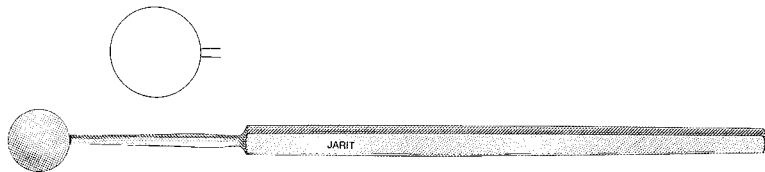
350-430 GILLS-WELSH Lens Loop,
4¾" (12.1cm), double-ended,
5mm wide x 7mm loop,
olive tip on opposite end



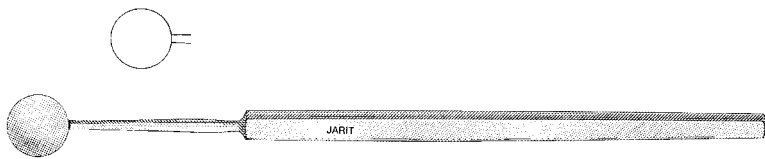
350-435 SIMCOE Nucleus Loop,
5½" (14cm), double-ended,
4mm wide x 20mm left and right loops,
serrated



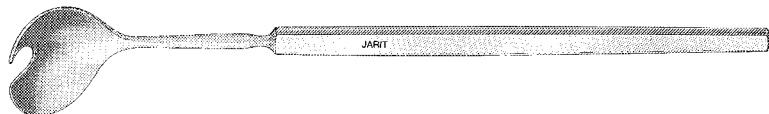
350-440 BUNGE Evisceration Spoon,
5 $\frac{5}{8}$ " (13.8cm), large, 12mm diameter



350-441 BUNGE Evisceration Spoon,
5 $\frac{1}{4}$ " (13.2cm), small, 8mm diameter

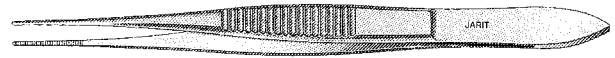


350-445 WELLS Enucleation Spoon,
5 $\frac{3}{4}$ " (14.5cm), 21mm wide



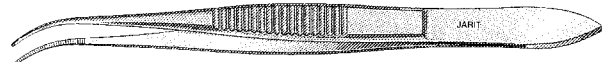
355-090 EYE Dressing Forceps,
4" (10cm), delicate, serrated, straight,
0.7mm wide at tip

355-100 EYE Dressing Forceps,
4" (10cm), serrated, straight,
0.8mm wide at tip



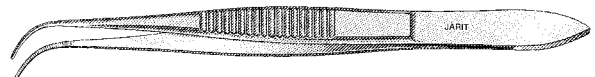
355-091 EYE Dressing Forceps,
3 3/8" (9.9cm), delicate, serrated, half curved,
0.7mm wide at tip

355-101 EYE Dressing Forceps,
3 3/8" (9.9cm), serrated, half curved,
0.8mm wide at tip



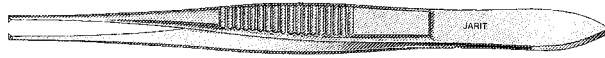
355-092 EYE Dressing Forceps,
3 1/8" (9.7cm), delicate, serrated, full curved,
0.7mm wide at tip

355-102 EYE Dressing Forceps,
3 1/8" (9.7cm), serrated, full curved,
0.8mm wide at tip



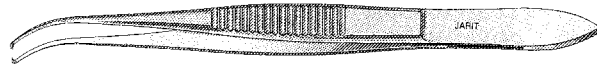
355-095 IRIS Forceps,
4" (10cm), delicate, straight, 1 x 2 teeth,
0.7mm wide at tip

355-110 IRIS Forceps,
4" (10cm), straight, 1 x 2 teeth,
0.8mm wide at tip



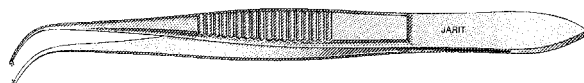
355-096 IRIS Forceps,
3 $\frac{3}{8}$ " (9.9cm), delicate, half curved, 1 x 2 teeth,
0.7mm wide at tip

355-111 IRIS Forceps,
3 $\frac{3}{8}$ " (9.9cm), half curved, 1 x 2 teeth,
0.8mm wide at tip



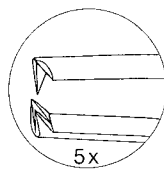
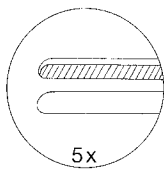
355-097 IRIS Forceps,
3 $\frac{3}{8}$ " (9.7cm), delicate, full curved, 1 x 2 teeth,
0.7mm wide at tip

355-112 IRIS Forceps,
3 $\frac{3}{8}$ " (9.7cm), full curved, 1 x 2 teeth,
0.8mm wide at tip



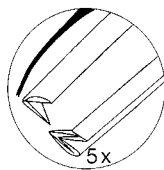
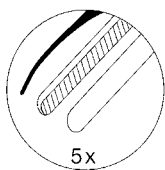
VON GRAEFE Iris Forceps,
2 3/4" (7.2cm), straight, 0.7mm tip

355-115 Serrated
355-116 1 x 2 teeth

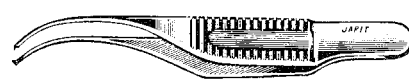
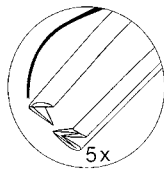


VON GRAEFE Iris Forceps,
2 3/4" (7.2cm), curved, 0.7mm tip

355-117 Serrated
355-118 1 x 2 teeth

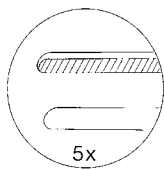
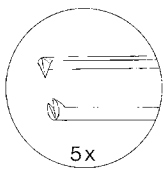


355-119 **GILL** Iris Forceps,
3" (7.5cm), curved, 0.5mm tip,
1 x 2 teeth

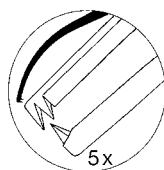


BISHOP-HARMON Iris Forceps,
3 1/4" (8.3cm)

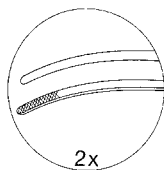
355-120 0.6mm, 1 x 2 teeth
355-121 0.4mm, 1 x 2 teeth, extra delicate
355-122 0.3mm, 1 x 2 teeth, micro-surgery
355-123 0.6mm, serrated



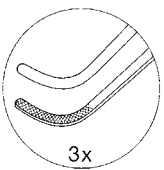
355-125 **GILL** Iris Forceps,
3" (7.5cm), curved, 0.6mm tip,
1 x 2 teeth down



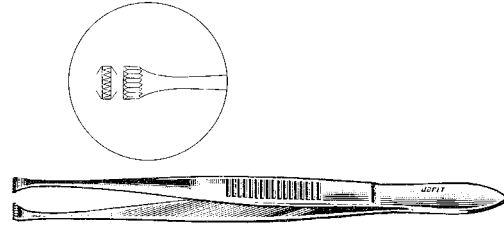
355-126 **GILL** Iris Forceps,
3" (7.5cm), curved, cross-serrated



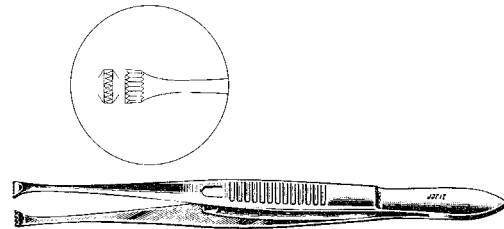
355-128 **BOTVIN** Iris Forceps,
3" (7.5cm), bayonet-shaped, cross-serrated



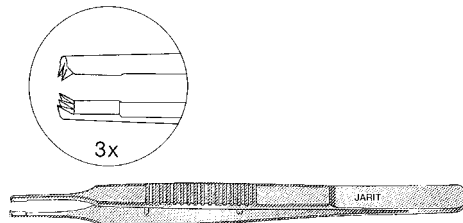
355-130 VON GRAEFE Fixation Forceps,
4½" (11.4cm), plain, 4.5mm jaws



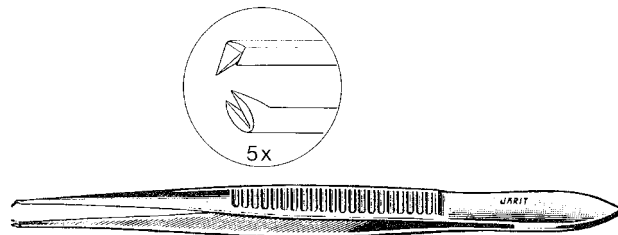
355-131 VON GRAEFE Fixation Forceps,
4½" (11.4cm), with catch, 4.5mm jaws



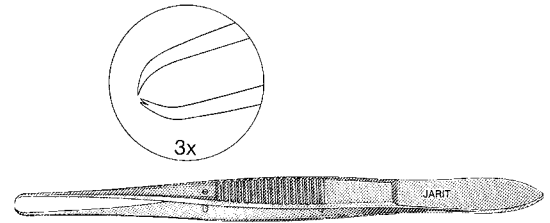
355-132 THORPE Conjunctival Fixation Forceps,
3¾" (9.5cm), 2 x 3 teeth with tying platform



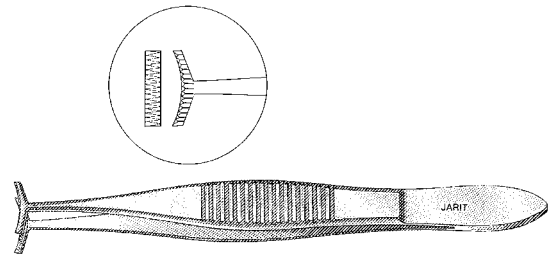
355-135 ELSCHNIG Fixation Forceps,
4⅝" (10.6cm), 1 x 2 teeth



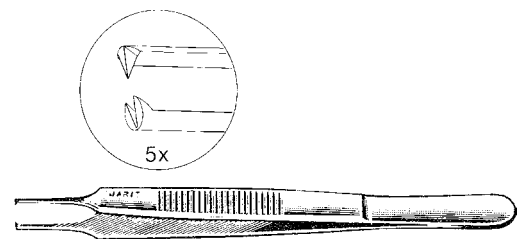
355-137 BRACKEN Fixation Forceps,
4 1/4" (10.8cm), 1 x 2 teeth



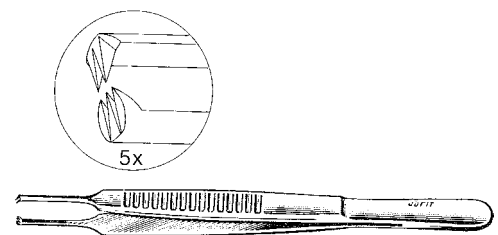
355-138 GREEN Fixation Forceps,
4" (10.2cm), 10mm jaws with fine teeth



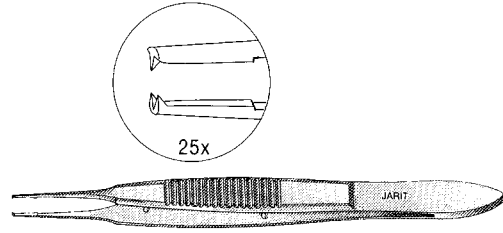
355-140 LESTER Fixation Forceps,
3 3/4" (9.7cm), 1 x 2 teeth



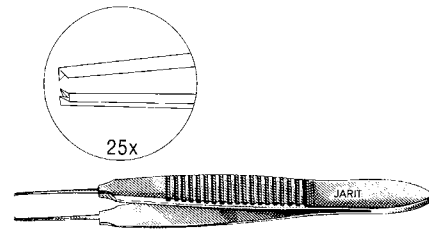
355-141 LESTER Fixation Forceps,
3 3/4" (9.7cm), 2 x 3 teeth



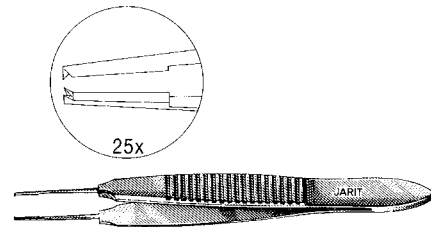
355-142 BONN Suture Forceps,
3 $\frac{3}{4}$ " (9.5cm), 0.12mm teeth,
5mm tying platform



355-143 BONN Iris Forceps,
2 $\frac{3}{4}$ " (7cm), original pattern,
0.12mm teeth without tying platform

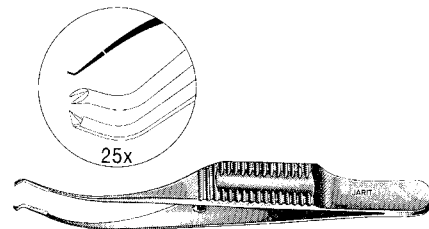


355-144 BONN Iris Forceps,
2 $\frac{3}{4}$ " (7cm), 0.12mm teeth,
4mm tying platform

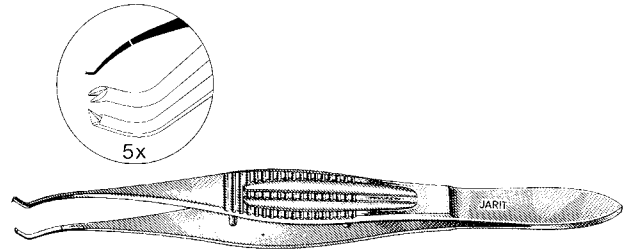


TROUTMAN-BARRAQUER Utility Forceps (Colibri-Type),
2 $\frac{1}{16}$ " (7.5cm), teeth at 45° angle, 6mm tying platform

- 355-145** 0.12mm teeth
- 355-146** 0.3mm teeth
- 355-147** 0.5mm teeth

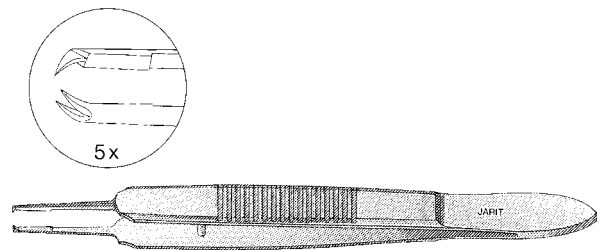


355-148 CASTROVIEJO Colibri Forceps,
4 1/4" (10.8cm), wide handle,
0.12mm teeth, 7mm tying platform

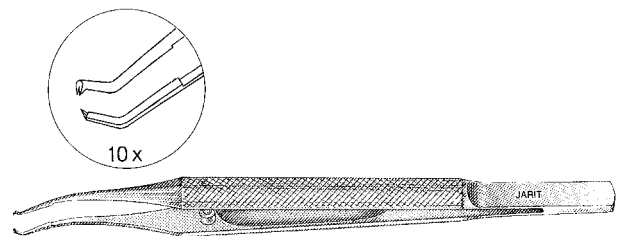


CASTROVIEJO Corneo-Scleral Suture Forceps,
4" (10.2cm), 6mm tying platform

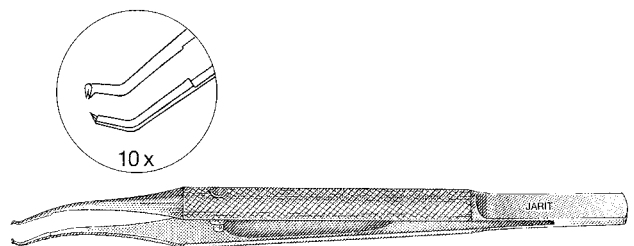
- 355-150** 0.5mm teeth
- 355-151** 0.9mm teeth
- 355-152** 1.5mm teeth



355-155 GIRARD Corneo-Scleral Forceps (Colibri-Type),
4 1/4" (10.8cm), for left hand, round knurled handle,
0.12mm teeth, 6mm tying platform

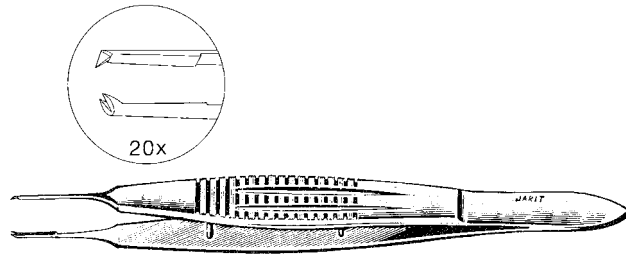


355-156 GIRARD Corneo-Scleral Forceps (Colibri-Type),
4 1/4" (10.8cm), for right hand, round knurled handle,
0.12mm teeth, 6mm tying platform



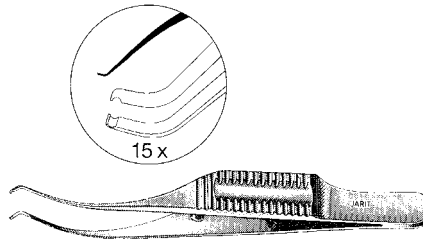
CASTROVIEJO Suture Forceps,
4 1/4" (10.8cm), wide handle,
6mm tying platform

- 355-159** 0.12mm teeth
- 355-160** 0.3mm teeth
- 355-161** 0.5mm teeth
- 355-162** 0.9mm teeth
- 355-163** 1.5mm teeth



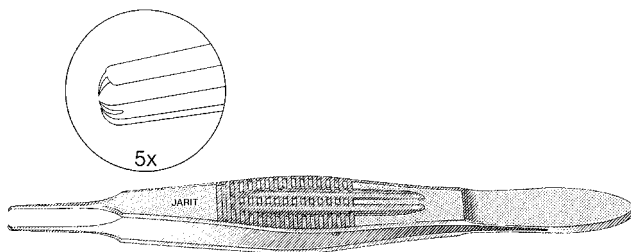
PIERSE Colibri Forceps,
3" (7.6cm)

- 355-165** 0.1mm teeth
- 355-166** 0.3mm teeth



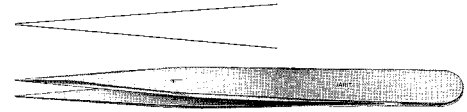
CASTROVIEJO Fixation Forceps,
4 1/4" (10.8cm), wide handle
without tying platform

- 355-168** 0.3mm teeth
- 355-169** 0.5mm teeth



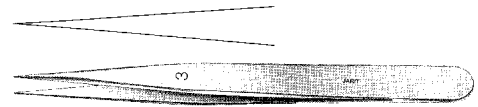
JARIT Jewelers Style Forceps,
Style 1: fine
355-170 4 3/8" (11.1cm)

TITANIUM
355-170TI 4 3/8" (12cm)

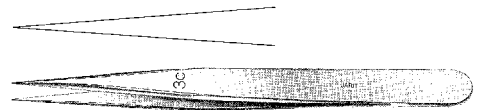


JARIT Jewelers Style Forceps,
Style 3: very fine
355-171 4 3/8" (11.1cm)

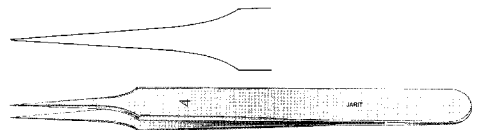
TITANIUM
355-171TI 4 3/8" (12cm)



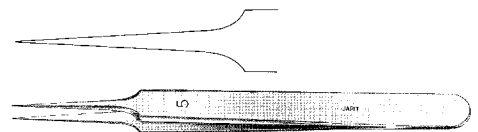
355-172 **JARIT** Jewelers Style Forceps,
Style 3C: very fine, 4 3/8" (11.1cm)



355-173 **JARIT** Jewelers Style Forceps,
Style 4: very fine, 4 3/8" (11.1cm)

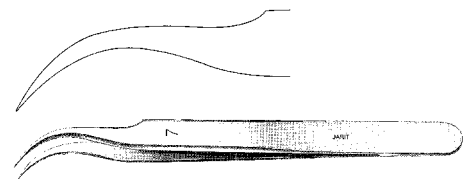


355-174 **JARIT** Jewelers Style Forceps,
Style 5: very fine, 4 3/8" (11.1cm)



JARIT Jewelers Style Forceps,
Style 7: very fine, curved
355-175 4 3/8" (11.1cm)

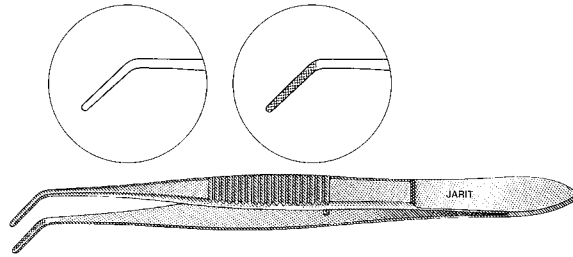
TITANIUM
355-175TI 4 3/8" (11.8cm)



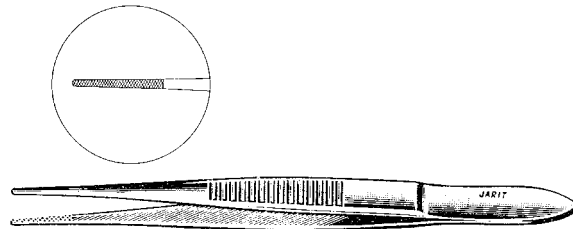
NUGENT Utility Forceps,
4¼" (10.8cm), 45° angled jaws

355-177 Smooth

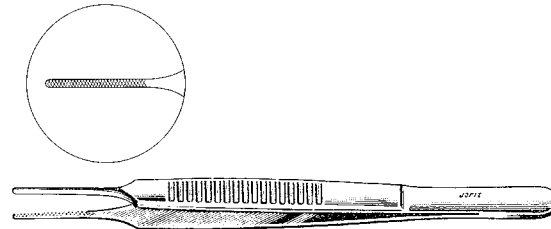
355-178 Cross-serrated



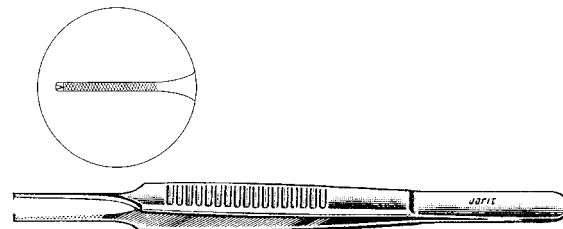
355-179 **WILLS** Hospital Utility Forceps,
4" (10.2cm), cross-serrated



355-180 **McCULLOUGH** Utility Forceps,
4" (10.2cm), cross-serrated



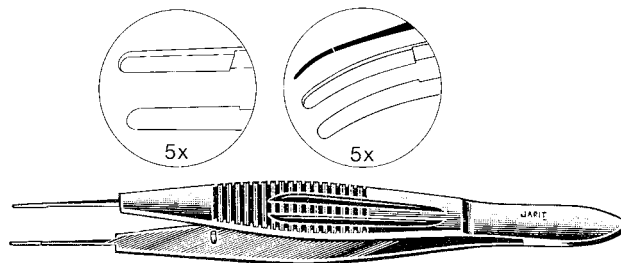
355-181 **McCULLOUGH** Utility Forceps,
4" (10.2cm), 1 x 2 teeth, cross-serrated



HARMS Suture Tying Forceps,
4¼" (10.8cm), wide handle,
6.5mm tying platform

355-182 Straight

355-184 Curved

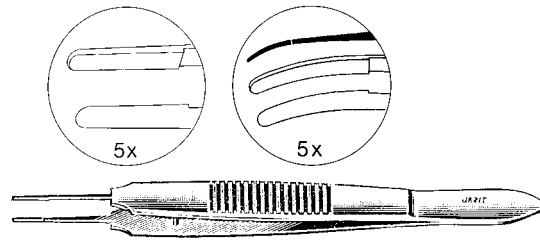




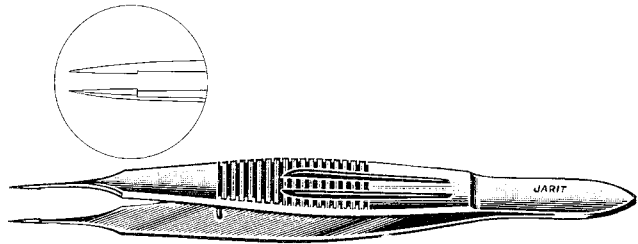
UTILITY AND SUTURE FORCEPS

HARMS Suture Tying Forceps,
4" (10.2cm), regular handle,
6.2mm tying platform

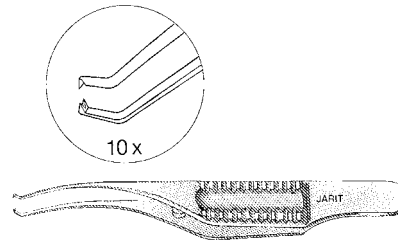
- 355-183 Straight
- 355-185 Curved



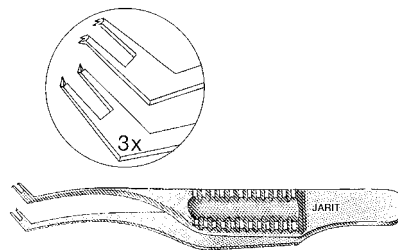
355-187 CASTROVIEJO Suture Tying Forceps,
4 1/4" (10.8cm), 5mm tying platform



355-188 TROUTMAN-BARRAQUER Corneal Utility Forceps
(Colibri-Type), 2 3/4" (7.1cm), 0.12mm teeth

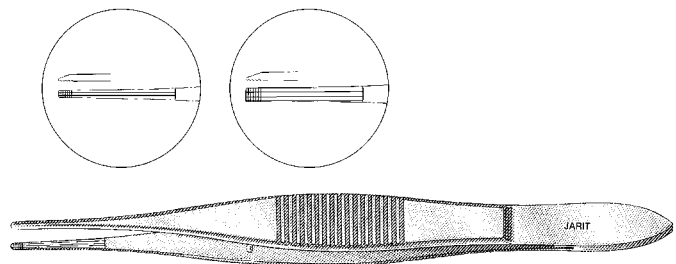


355-189 POLACK Double Corneal Forceps (Colibri-Type),
2 3/4" (7.1cm), 3mm long tips with 1 x 2 teeth

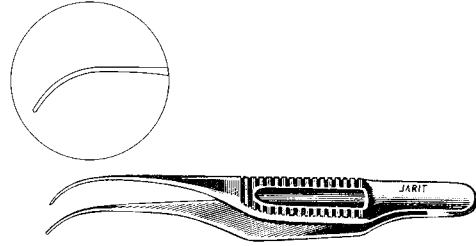


BONACCOLTO Utility Forceps,
4 1/4" (10.8cm), cross serrated

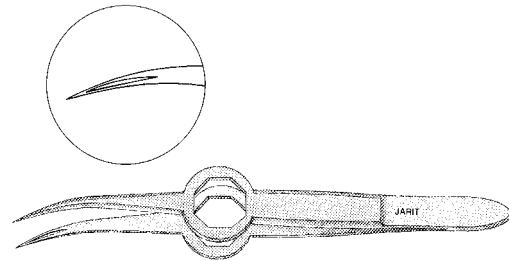
- 355-191 1.2mm wide platform
- 355-192 1.7mm wide platform



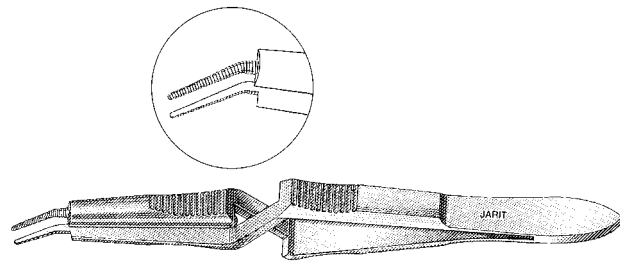
355-193 CHANDLER Iris Forceps,
3" (7.6cm)



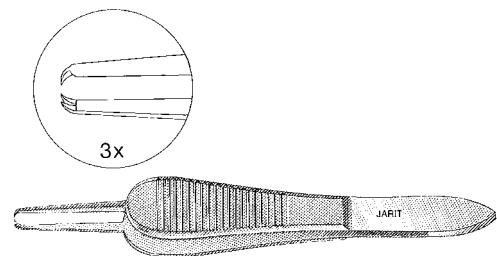
355-200 SCHAAF Foreign Body Forceps,
3½" (8.9cm)



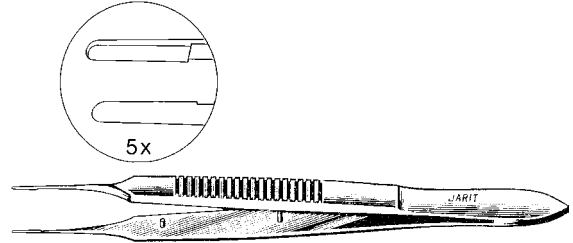
355-202 WATZKE Sleeve Spreading Forceps,
4½" (11.4cm), cross-action,
10mm serrated angled tips



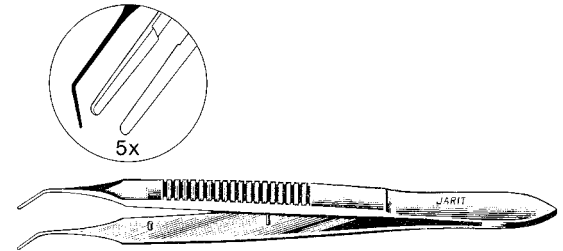
355-203 SAUER Suture Forceps,
3½" (8.9cm), 1 x 2 teeth



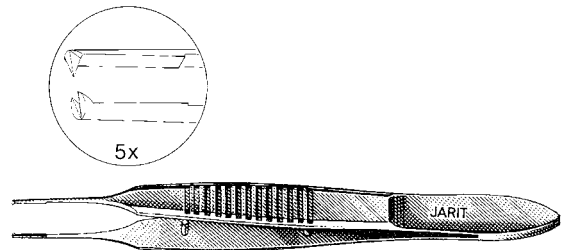
355-205 McPHERSON Suture Tying Forceps,
3½" (8.9cm), straight, 4.5mm tying platform



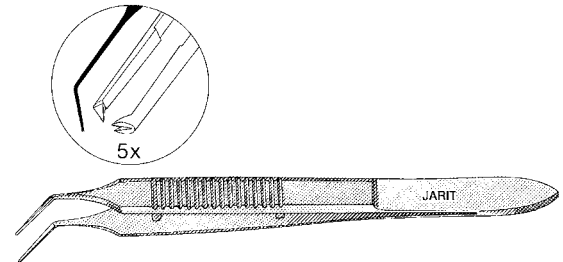
355-206 McPHERSON Suture Tying Forceps,
3½" (8.9cm), angled, 4.5mm tying platform



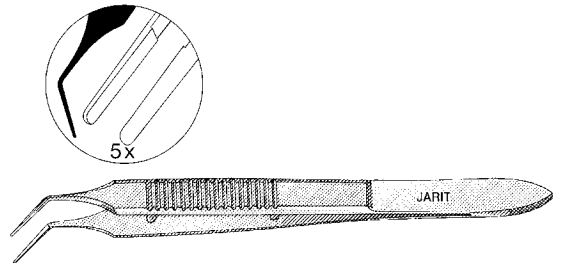
355-210 McPHERSON Micro Corneal Forceps,
3½" (8.9cm), straight, 1 x 2 teeth, 4.5mm tying platform



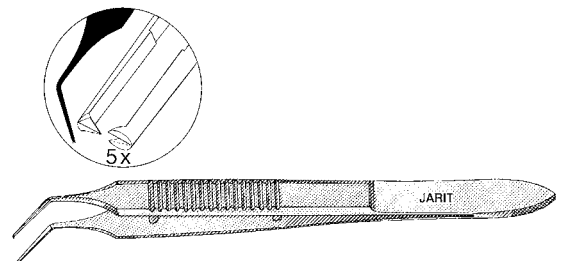
355-212 McPHERSON Micro Corneal Forceps,
3½" (8.9cm), angled, 1 x 2 teeth, 4.5mm tying platform



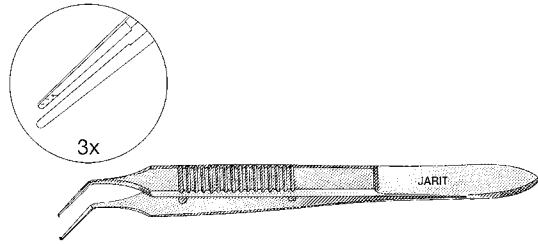
355-214 KELMAN-McPHERSON Suture Tying Forceps,
3½" (8.6cm), angled, 7mm tying platform



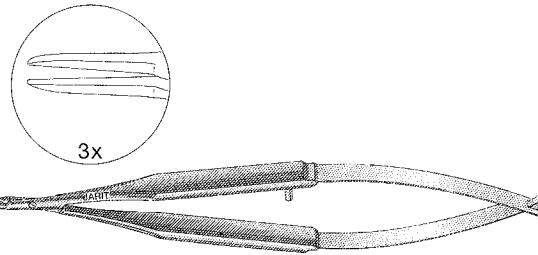
355-215 KELMAN-McPHERSON Micro Corneal Forceps,
3½" (8.6cm), angled, 1 x 2 teeth, 7mm tying platform



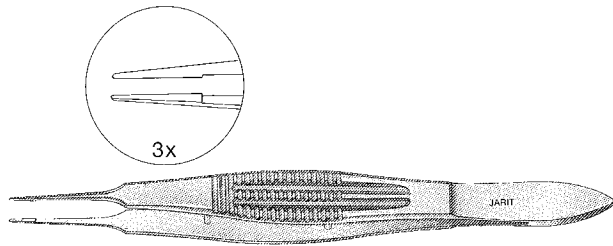
355-218 SHEETS-McPHERSON Tying Forceps,
 3¼" (8.3cm), 45° angled jaws,
 1mm cross-serrated tips, 10.5mm tying platform



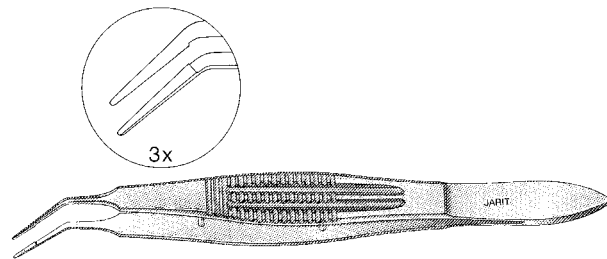
355-220 SINSKEY Tying Forceps,
 4¼" (11.1cm), straight,
 7mm tying platform



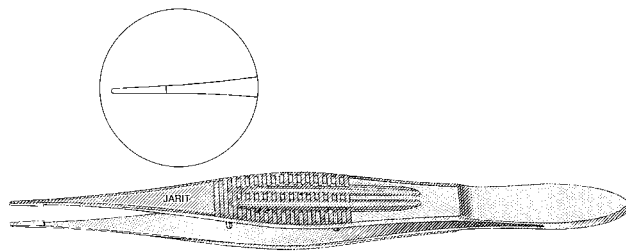
355-225 SHEPARD Tying Forceps,
 4¼" (10.8cm), straight, wide handle,
 4mm tying platform



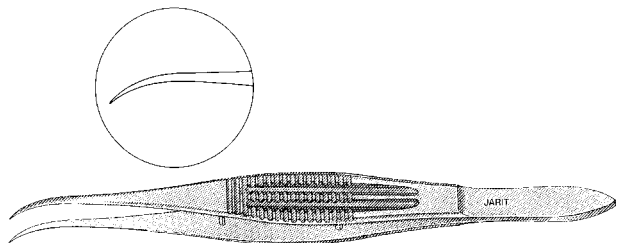
355-226 SHEPARD Tying Forceps,
 4¼" (10.8cm), 45° angle, wide handle,
 4mm tying platform



355-230 JARIT Tying Forceps,
 4¼" (10.8cm), wide handle,
 7mm tying platform



355-235 FINE Tying Forceps,
 4¼" (10.8cm), wide handle,
 curved tips with tying surface



355-250 ZIEGLER Cilia Forceps,
3 $\frac{3}{4}$ " (8.6cm)



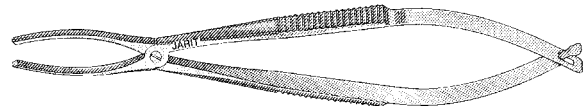
355-255 LITTAUER Cilia Forceps,
3 $\frac{1}{4}$ " (8.3cm)



355-260 DOUGLASS Cilia Forceps,
3 $\frac{1}{2}$ " (8.9cm)



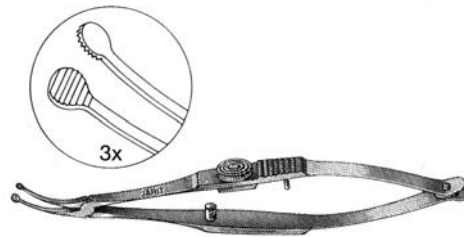
355-263 GRADLE Cilia Forceps,
3 $\frac{3}{4}$ " (9.8cm), 2mm wide platform



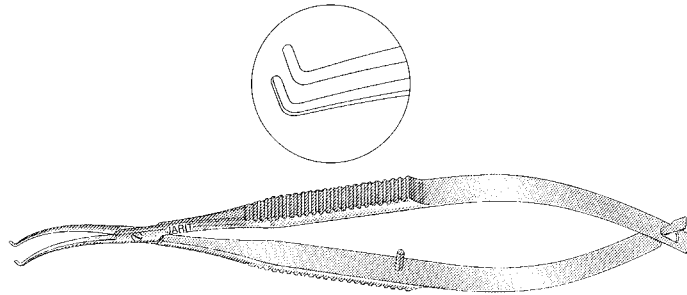
355-265 BARRAQUER Cilia Forceps,
4" (10.2cm), 6mm long platform



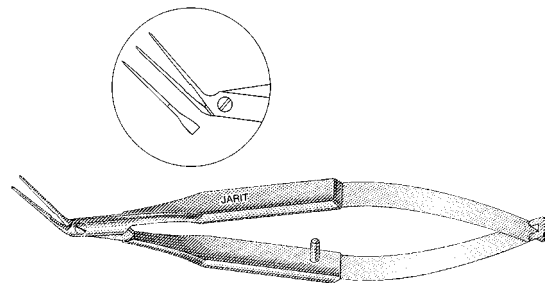
355-275 SHEPARD Intraocular Lens Forceps,
3 $\frac{3}{4}$ " (9.2cm), curved shafts, slide lock,
1.5mm upper and 2mm lower serrated jaws



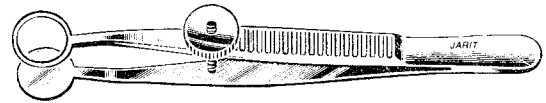
355-280 CLAYMAN Lens Forceps,
4 $\frac{1}{4}$ " (12cm), curved shafts, 3mm angled tips



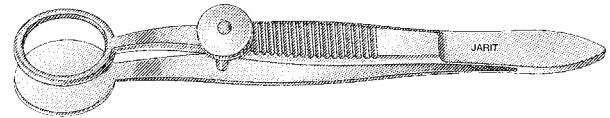
355-285 THORNTON Intraocular Lens Forceps,
3 $\frac{3}{4}$ " (8.6cm), 11mm angled jaws 45°



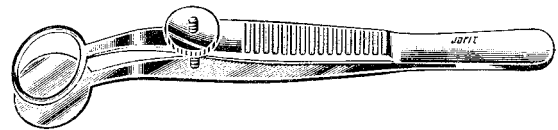
355-300 **LAMBERT** Chalazion Forceps,
3 $\frac{3}{4}$ " (9.2cm), 8mm inside diameter
of fenestrated jaw



355-303 **HEATH** Chalazion Forceps,
3 $\frac{3}{4}$ " (9.5cm), 12mm x 14mm inside diameter
of fenestrated jaw



355-305 **HUNT** Chalazion Forceps,
3 $\frac{3}{4}$ " (9.5cm), 12mm inside diameter
of fenestrated jaw

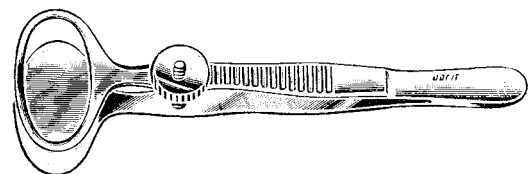


DESMAIRES Chalazion Forceps,
3 $\frac{3}{4}$ " (8.9cm)

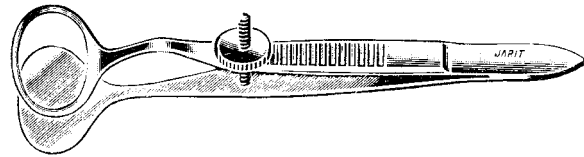
355-310 11mm x 17mm inside diameter
of fenestrated jaw

355-311 11.5mm x 22.5mm inside diameter
of fenestrated jaw

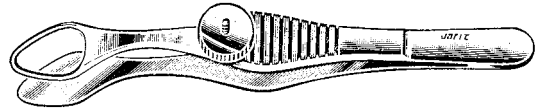
355-312 16.5mm x 28mm inside diameter
of fenestrated jaw



355-315 FRANCIS Chalazion Forceps,
3 $\frac{3}{4}$ " (9.5cm), 12 x 14mm inside diameter
of fenestrated jaw

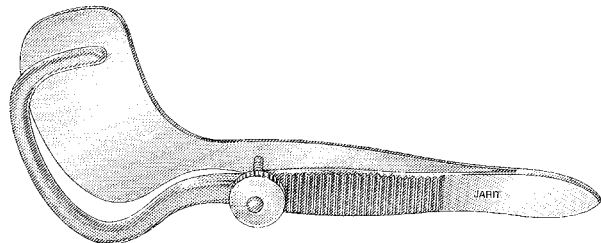


355-320 LORDAN Chalazion Forceps,
3 $\frac{3}{4}$ " (9.5cm), 7.5 x 12mm inside dimensions
of fenestrated jaw

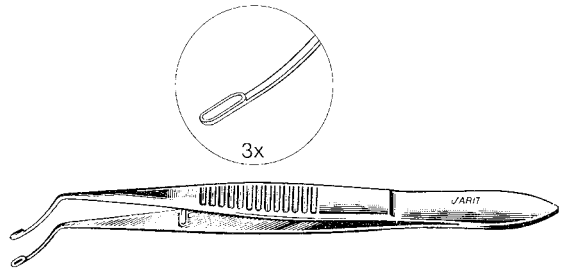


SNELLEN Entropium Forceps,
3 $\frac{1}{2}$ " (8.9cm), 35mm wide solid plate

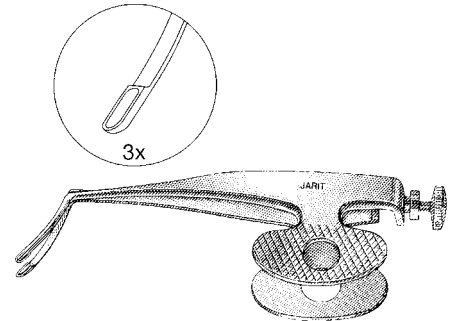
355-340 Left
355-341 Right (illustrated)



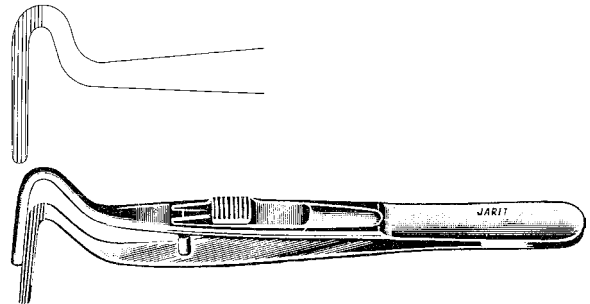
355-350 **ARRUGA** Capsule Forceps,
4" (10.2cm)



355-360 **JARIT** Capsule Fragment and Clot Forceps,
2 1/4" (5.6cm), 2mm platform and
microscopic cups on inner jaw surface

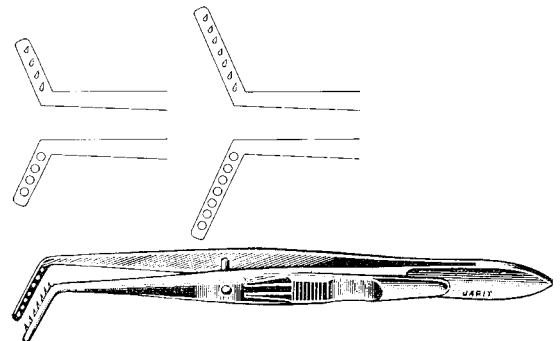


355-370 **BERKE** Ptosis Clamp,
4" (10.2cm), 20mm jaws

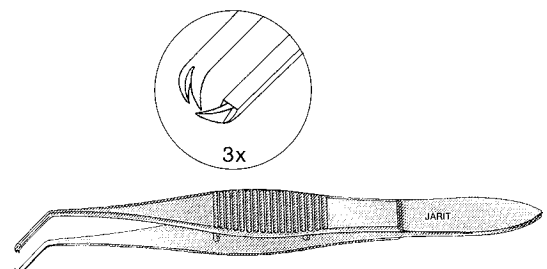


JAMESON Muscle Recession Forceps,
4" (10.2cm)

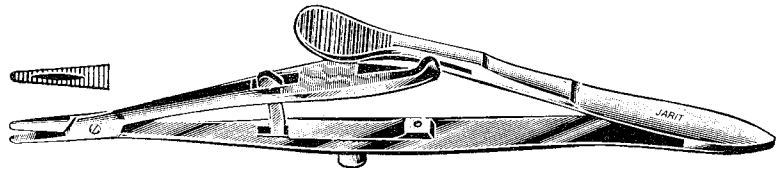
- 355-375** Left, 12mm jaws, (illustrated)
- 355-376** Left, 7mm jaws, (illustrated)
- 355-377** Right, 12mm jaws
- 355-378** Right, 7mm jaws



355-380 **TROUTMAN** Superior Rectus Forceps,
4 1/4" (10.5cm), 45° angle, 10mm from tip to bend

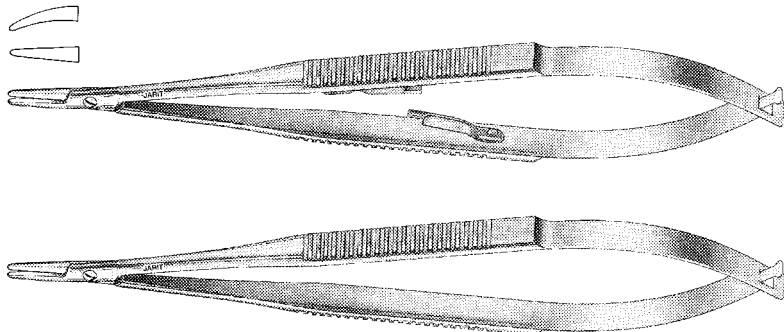


355-400 **KALT** Needle Holder,
5 $\frac{1}{4}$ " (13.3cm), 12mm jaws, straight,
serrated thumb plate with lock



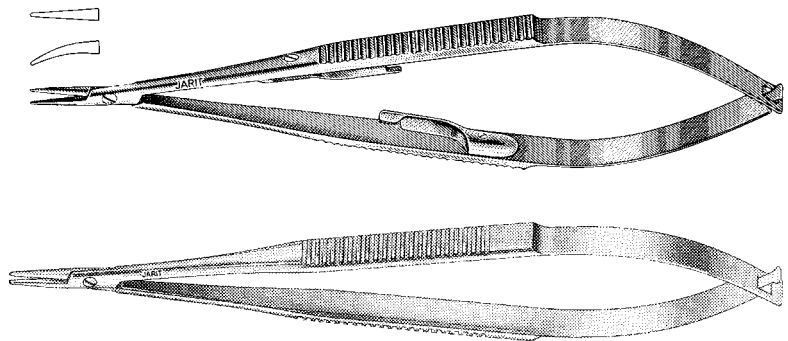
CASTROVIEJO Needle Holder,
5 $\frac{1}{2}$ " (14cm), 11mm smooth jaws,
flat serrated handle

- 355-404** Curved, lock
- 355-404NL** Curved, no lock
- 355-405** Straight, lock
- 355-405NL** Straight, no lock



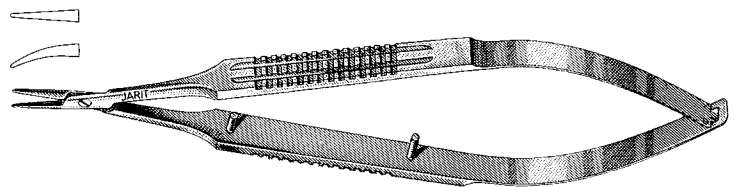
CASTROVIEJO Needle Holders,
5½" (14cm), 10mm smooth jaws,
flat serrated handle

- 355-406** Straight, lock
- 355-406NL** Straight, no lock
- 355-407** Curved, lock
- 355-407NL** Curved, no lock



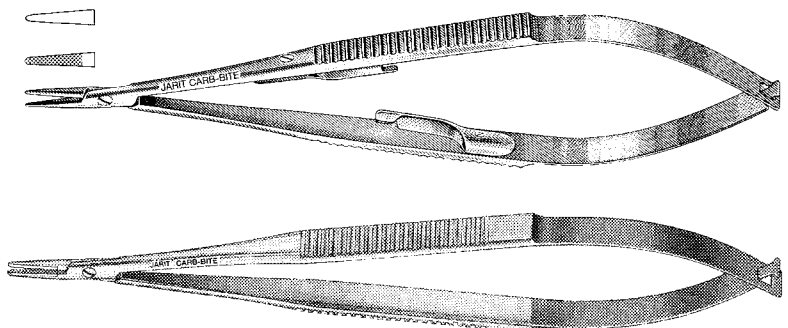
CASTROVIEJO Needle Holders,
5" (12.7cm), 9mm smooth jaws,
wide serrated handle

- 355-408** Straight, without lock
- 355-409** Curved, without lock
- 355-410** Straight, with lock
- 355-411** Curved, with lock



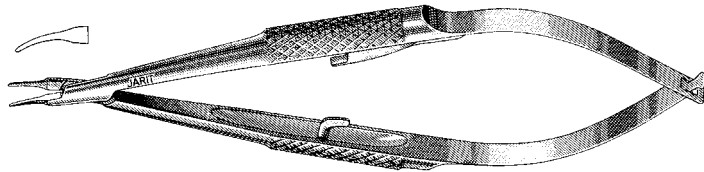
CASTROVIEJO Needle Holders,
5½" (14cm), 11mm CARB-BITE,
straight jaws, flat serrated handle

- 355-412** Smooth, lock
- 355-412NL** Smooth, no lock
- 355-413** Serrated, lock
- 355-413NL** Serrated, no lock



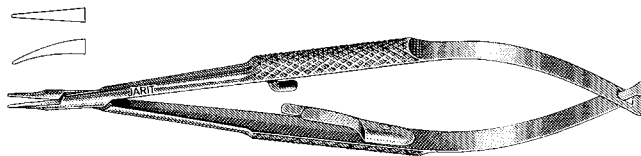
BARRAQUER Needle Holders,
5¼" (13.3cm), 9mm curved jaws,
round knurled handle

- 355-415 With lock
- 355-416 Without lock



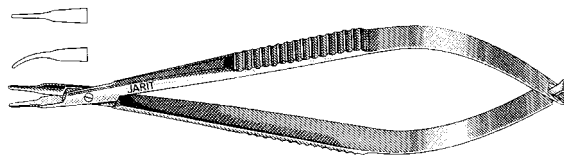
BARRAQUER Needle Holders,
4¾" (12.1cm), 10mm smooth jaws,
round knurled handle

- 355-430 Straight, without lock
- 355-432 Straight, with lock
- 355-434 Curved, without lock
- 355-436 Curved, with lock



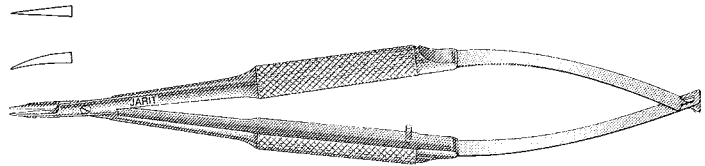
McPHERSON Needle Holders,
4" (10.2cm), 10mm smooth jaws,
flat serrated handle

- 355-450 Straight, without lock
- 355-451 Straight, with lock
- 355-452 Curved, without lock
- 355-453 Curved, with lock



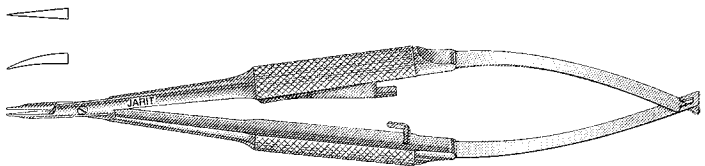
ANIS Needle Holders,
4 3/4" (12.1cm), 8mm smooth jaws,
round knurled handle without lock

- 355-460** Straight
- 355-464** Curved



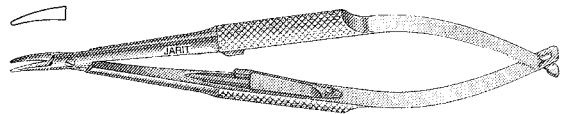
ANIS Needle Holders,
4 3/4" (12.1cm), 8mm smooth jaws,
round knurled handle with lock

- 355-462** Straight
- 355-466** Curved

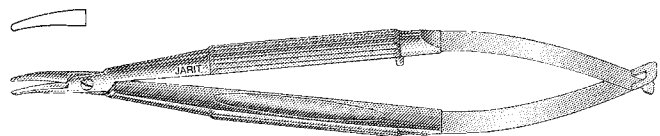


COHAN Miniature Needle Holders,
4 1/4" (10.4cm), 8mm smooth curved jaws,
round knurled handle

- 355-470** Without lock
- 355-472** With lock

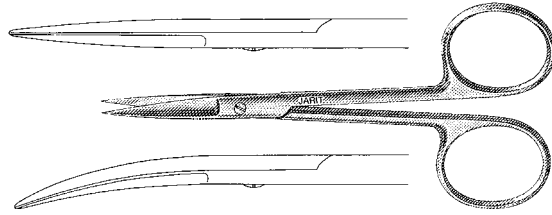


- 355-475** **TROUTMAN** Needle Holder,
4 3/4" (11.7cm), 10mm smooth curved jaws,
round serrated handle without lock



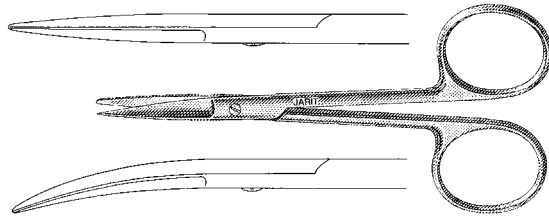
KNAPP Iris Scissors,
4" (10.1cm), 25mm blades,
sharp-sharp

- 360-090** Straight
- 360-093** Curved



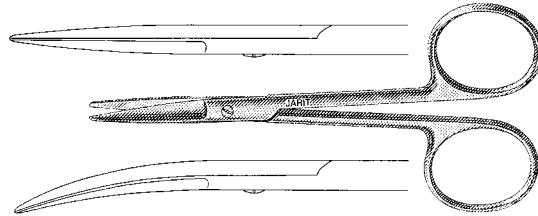
KNAPP Iris Scissors,
4" (10.1cm), 25mm blades,
sharp-blunt

- 360-091** Straight
- 360-094** Curved



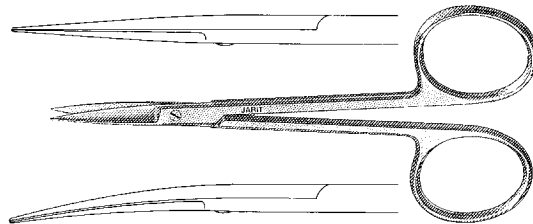
KNAPP Iris Scissors,
4" (10.1cm), 25mm blades,
blunt-blunt

- 360-092** Straight
- 360-095** Curved



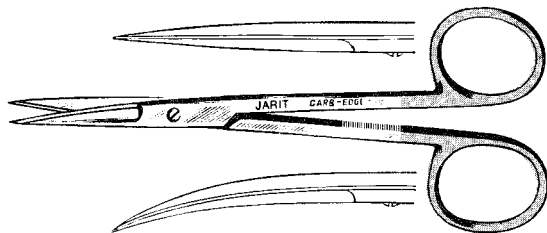
IRIS Scissors,
4½" (11.4cm), 25mm blades

- | | | |
|-------------------------|--|----------------|
| Mirror Finish | | Matte Finish |
| 360-100 Straight | | 359-100 |
| 360-101 Curved | | 359-101 |



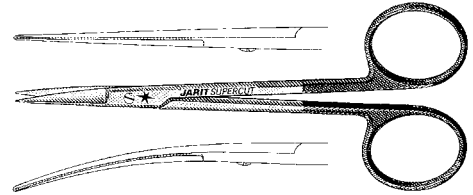
IRIS Scissors,
4½" (11.4cm), CARB-EDGE,
25mm blades

- 101-300** Straight
- 101-301** Curved

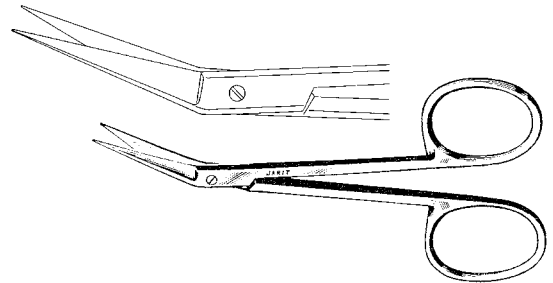


JARIT SUPERCUT IRIS Scissors,
4½" (11.4cm), 25mm blades

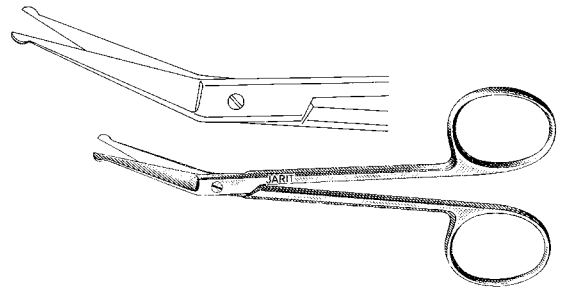
- 102-130** Straight
- 102-131** Curved



- 360-102** **IRIS** Scissors,
4½" (11.4cm), 25mm blades,
angled over edge

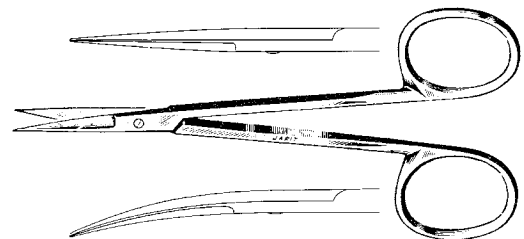


- 360-103** **IRIS** Scissors,
4½" (11.4cm), 25mm blades,
angled over edge, probe points

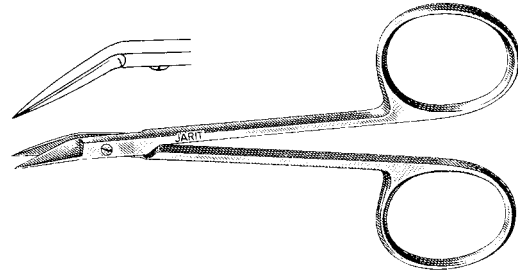


IRIS Scissors,
22mm blades

- 360-104** 3½" (8.9cm), straight
- 360-105** 3½" (8.9cm), curved
- 360-110** 4½" (10.5cm), delicate, straight
- 360-111** 4½" (10.5cm), delicate, curved

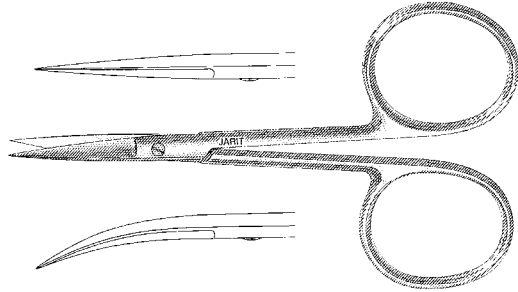


360-115 **WILMER** Conjunctival Scissors,
4½" (10.5cm), delicate, 15mm blades
angled on flat



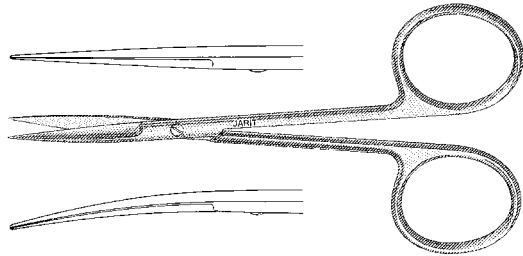
IRIS Scissors,
4" (10.2cm), 24mm blades,
large finger rings

360-117 Straight
360-118 Curved



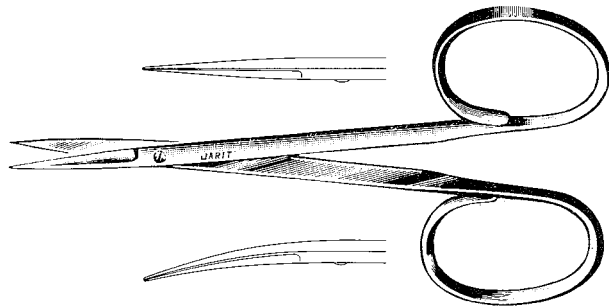
IRIS Scissors,
4½" (10.5cm), delicate, 27mm blades,
Swedish steel

360-120 Straight
360-121 Curved



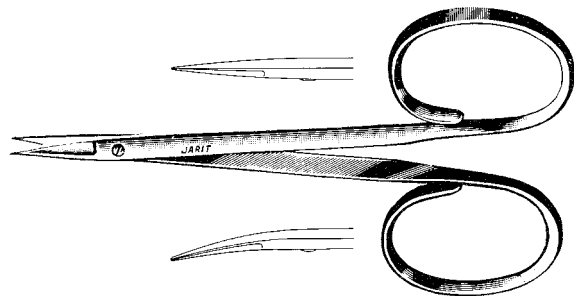
IRIS Scissors,
4" (10.2cm), 22mm blades,
flat shanks

360-122 Straight
360-123 Curved



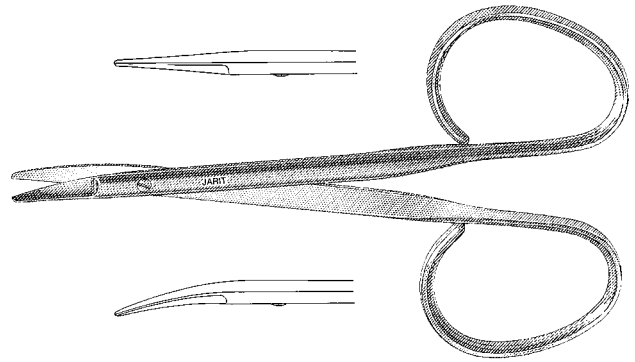
IRIS Scissors,
3½" (8.9cm), delicate, 12mm blades,
flat shanks

360-125 Straight
360-126 Curved



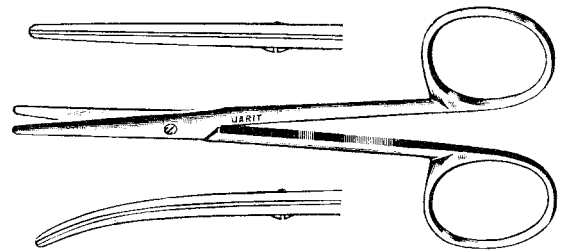
JARIT Utility Scissors,
4½" (10.5cm), 15mm blades,
flat shanks

- 360-127** Straight
- 360-128** Curved



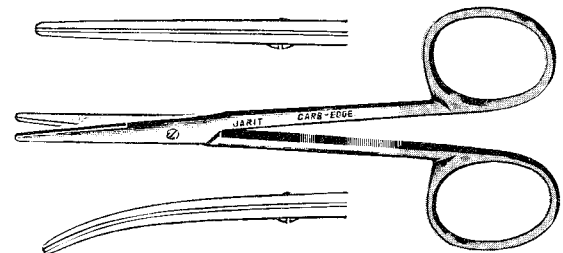
STRABISMUS Scissors,
4½" (11.4cm), 30mm blades

- 360-130** Straight
- 360-131** Curved



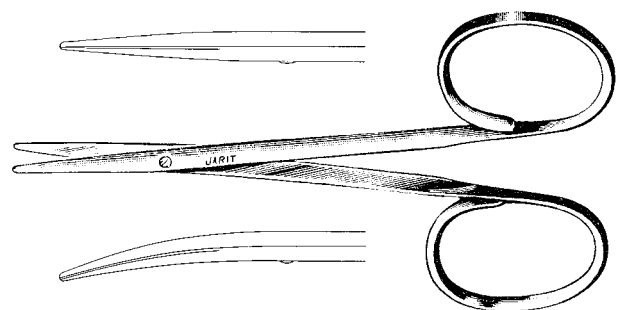
STRABISMUS Scissors,
4½" (11.4cm), CARB-EDGE, 30mm blades

- 101-310** Straight
- 101-311** Curved



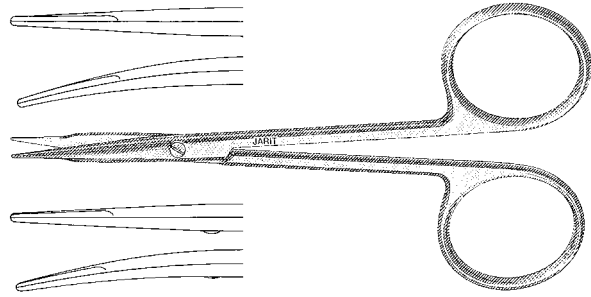
STRABISMUS Scissors,
4½" (10.5cm), 25mm blades,
flat shanks

- 360-134** Straight
- 360-135** Curved



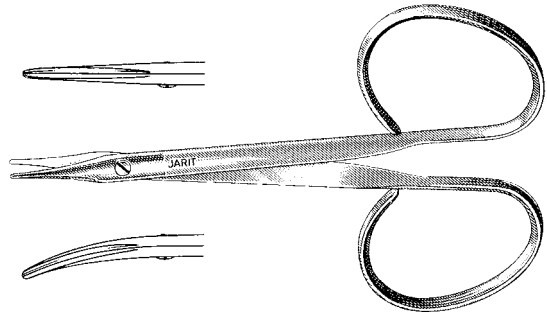
STEVENS Tenotomy Scissors,
blunt tips

Standard	Supercut	
360-138	102-138	4½" (11.4cm), 13mm blades, straight, slender pattern
360-139	102-139	4½" (11.4cm), 13mm blades, curved, slender pattern
360-140	102-140	4½" (10.5cm), 12mm blades, straight, standard pattern
360-141	102-141	4½" (10.5cm), 12mm blades, curved, standard pattern

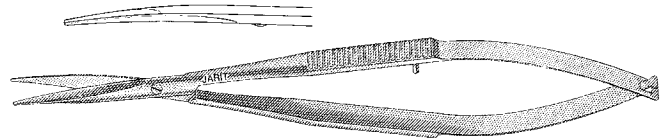


STEVENS Tenotomy Scissors,
3¾" (9.5cm), 13mm blades,
blunt tips, flat shanks

360-142	Straight
360-143	Curved

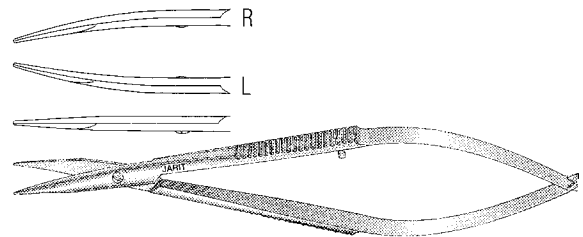


360-144	WESTCOTT Utility Scissors, 5¾" (13cm), 23mm blades, curved, round sharp tips
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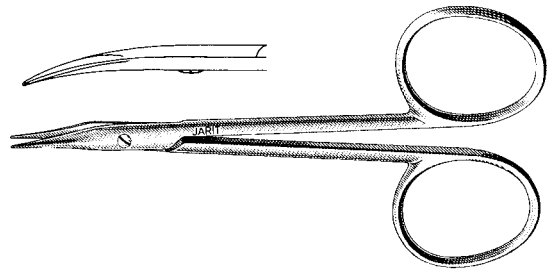


WESTCOTT Tenotomy Scissors,
4½" (11.4cm), 18mm blades,
round blunt tips

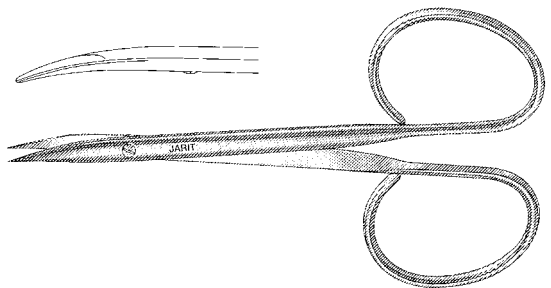
360-145	Right, curved
360-146	Left, curved
360-147	Straight



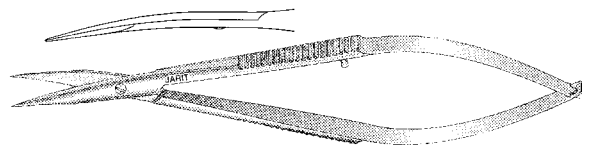
360-148 **STEVENS** Stitch Scissors,
4 $\frac{1}{8}$ " (10.5cm), 14mm blades,
curved, sharp tips



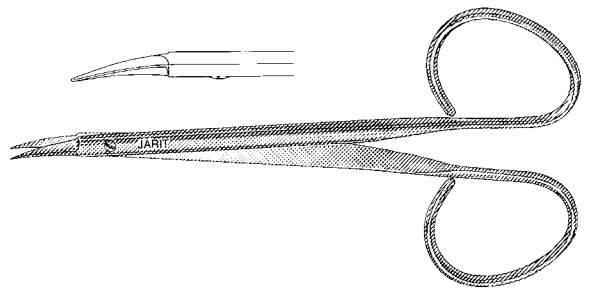
360-149 **STEVENS** Stitch Scissors,
3 $\frac{3}{4}$ " (9.5cm), 12mm blades,
curved, sharp tips, flat shanks



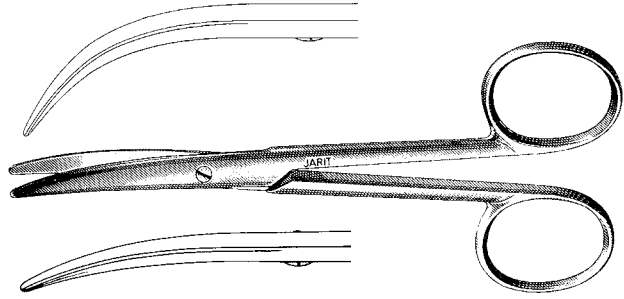
360-150 **WESTCOTT** Stitch Scissors,
4 $\frac{1}{2}$ " (11.5cm), 18mm blades,
curved, fine sharp tips



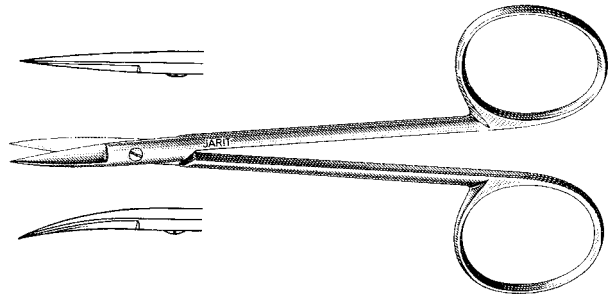
360-151 **JARIT** Stitch Scissors,
4 $\frac{1}{8}$ " (12.4cm), 13mm blades,
curved, fine sharp tips, flat shanks



360-153 **JARIT** Enucleation Scissors,
5 $\frac{1}{2}$ " (13cm), 32mm blades,
strong curve

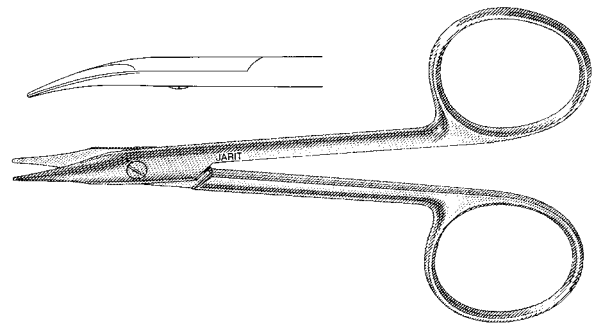


360-157 **JARIT** Enucleation Scissors,
5" (12.7cm), 27mm blades,
light curve

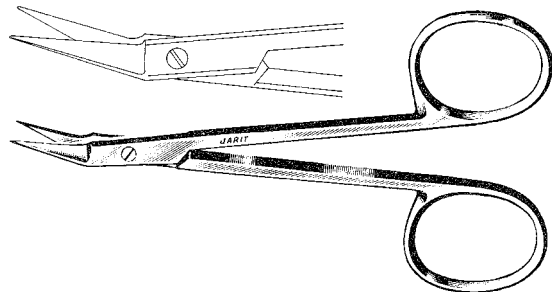


JARIT Stitch Scissors,
3 $\frac{3}{4}$ " (9.8cm), 15mm blades,
semi-sharp tips

360-154 Straight
360-155 Curved



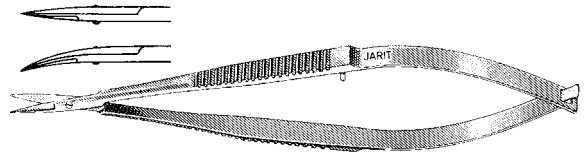
360-156 **GRADLE** Stitch Scissors,
3 $\frac{3}{4}$ " (9.5cm), 13mm blades,
blunt tips



125-195 **O'BRIEN** Suture Scissors,
3 $\frac{3}{4}$ " (9.5cm), 15mm blades,
angled

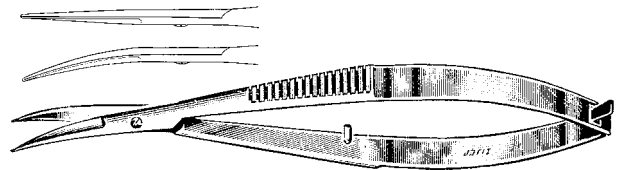
JARIT Micro Stitch Scissors,
4" (10.2cm), 7mm blades,
fine sharp tips

- 360-158** Straight
- 360-159** Curved

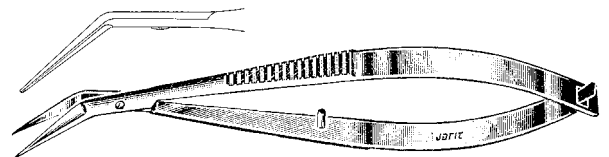


JARIT Micro Stitch Scissors,
4½" (11.4cm), 16mm blades,
sharp tips

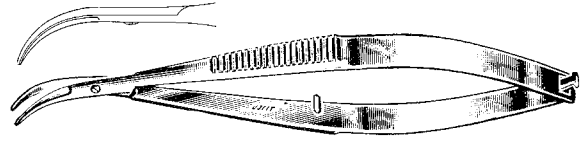
- 360-160** Straight
- 360-161** Curved



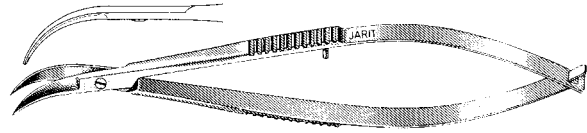
- 360-165** **McCLURE** Iris Scissors,
4½" (11.4cm), 14mm blades,
angled on flat



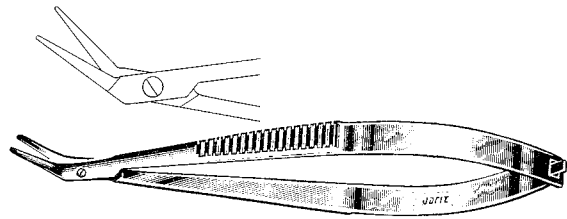
360-170 CASTROVIEJO Corneal Scissors,
4 1/4" (10.8cm), 12mm blades,
curved, blunt tips



360-172 CASTROVIEJO Iris Scissors,
3 3/4" (9.5cm), 11mm blades,
curved, sharp tips



360-175 CASTROVIEJO Corneal Scissors,
4 1/4" (10.8cm), 12mm blades,
angled, blunt tips



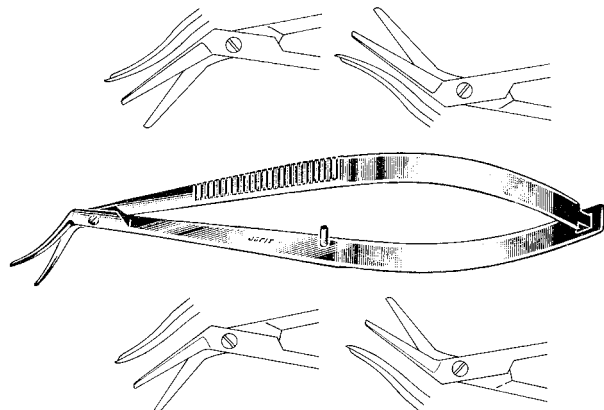
CASTROVIEJO Corneal Section Scissors,
4 1/4" (10.8cm), curved, blunt tips

360-180 Right, standard, 13mm blades

360-181 Left, standard, 13mm blades

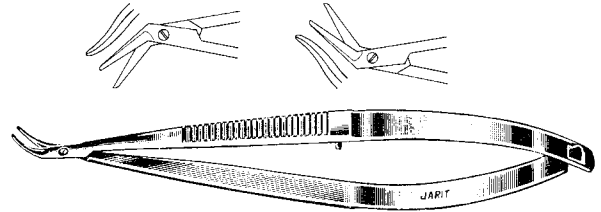
360-190 Right, miniature, 11mm blades

360-191 Left, miniature, 11mm blades



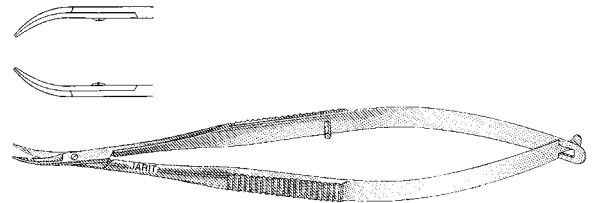
CASTROVIEJO Corneal Section Scissors,
4" (10.2cm), microsurgery 7mm blades,
curved, blunt tips

- 360-192** Right
- 360-193** Left



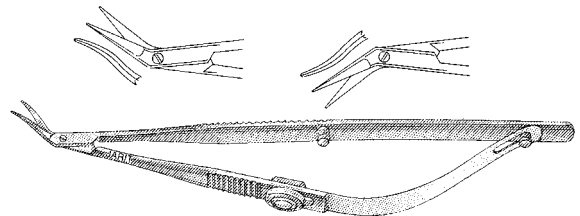
CASTROVIEJO Corneal Section Scissors,
4½" (10.5cm), miniature 7mm blades,
curved, blunt tips

- 360-195** Left
- 360-196** Right



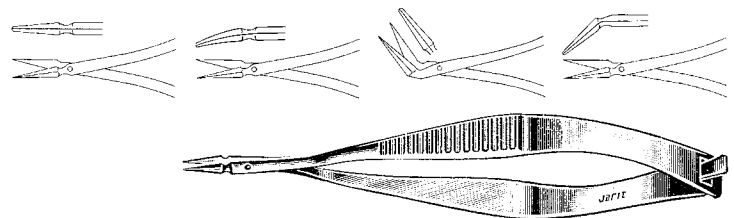
TROUTMAN-CASTROVIEJO Corneal Section Scissors,
4½" (10.5cm), miniature 7mm blades,
curved, blunt tips

- 360-198** Left
- 360-199** Right



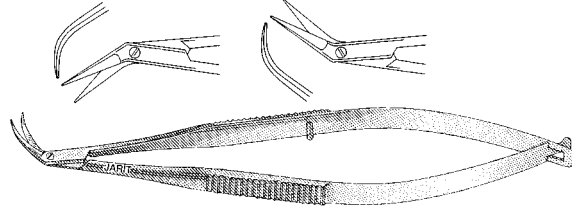
VANNAS Capsulotomy Scissors,
3¼" (8.2cm), sharp tips

- 360-200** Straight, 5mm blades
- 360-201** Curved, 5mm blades
- 360-202** Angled to side, 6mm blades
- 360-203** Angled on flat, 6mm blades

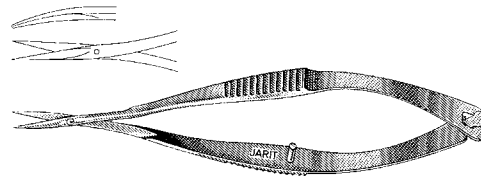


KATZIN Corneal Transplant Scissors,
4¼" (10.8cm), miniature 8mm blades,
curved, blunt tips

- 360-205 Left
- 360-206 Right

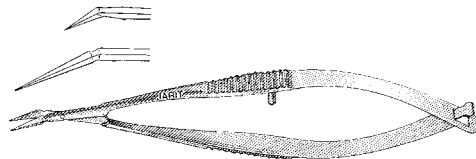


360-215 McPHERSON-VANNAS Iris Scissors,
3¼" (8.2cm), 5mm blades,
curved, sharp tips

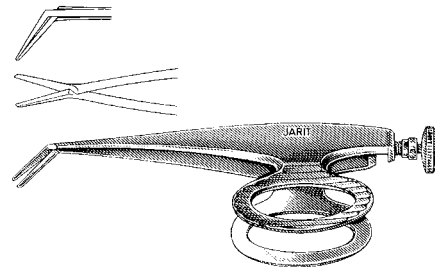


GILLS-WELSH VANNAS Scissors,
angled, sharp tips

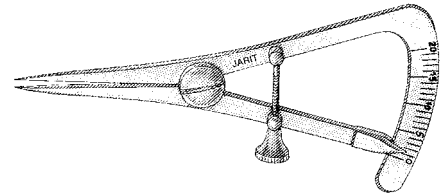
- 360-220 3¼" (7.9cm), microsurgery 5mm blades
- 360-225 3¾" (8.6cm), microsurgery 11mm blades



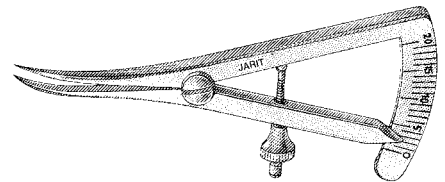
360-234 BARRAQUER-DEWECKER Iris Scissors,
2¼" (5.7cm), 7mm blades,
angled on flat, blunt tips



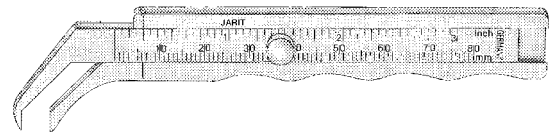
360-250 CASTROVIEJO Caliper,
3 $\frac{3}{4}$ " (8.2cm), straight, measures from
0mm to 20mm in 1mm increments



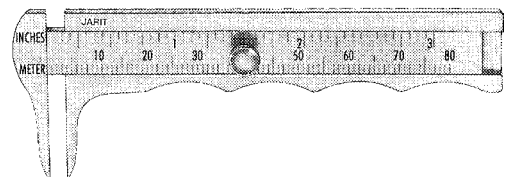
360-251 CASTROVIEJO Marking Caliper,
3 $\frac{3}{4}$ " (8.6cm), curved, measures from
0mm to 20mm in 1mm increments
with grooves for marking fluid



360-253 THORPE Caliper,
4 $\frac{1}{4}$ " (12.1cm), measures from
0mm to 80mm in 1mm increments
and 0 to 3 inches in $\frac{1}{16}$ " increments



360-255 JAMESON Caliper,
3 $\frac{3}{4}$ " (8.6cm), chrome, measures from
0mm to 80mm in 1mm increments
and 0 to 3 inches in $\frac{1}{16}$ " increments



360-260 JARIT Steel Ruler,
graduated, 6" and 15cm



360-262 JARIT Steel Ruler,
graduated 12" and 30cm



BOWMAN Lacrimal Probes,
4 7/8" (12.4cm), double-ended

- | | | |
|----------------|-----------------|----------------|
| Silver | Stainless Steel | |
| | 360-270 | Set of 6 |
| 360-280 | 360-271 | Sizes 0000-000 |
| 360-281 | 306-272 | Sizes 00-0 |
| 360-282 | 306-273 | Sizes 1-2 |
| 360-283 | 306-274 | Sizes 3-4 |
| 360-284 | 306-275 | Sizes 5-6 |
| 360-285 | 306-276 | Sizes 7-8 |



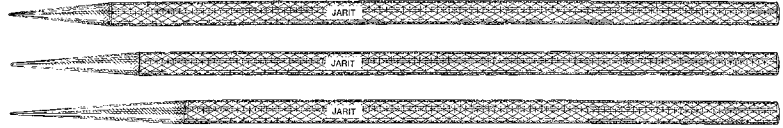
WILLIAMS Lacrimal Probes,
4 7/8" (12.4cm), double-ended, silver

- | | |
|----------------|----------------|
| 360-286 | Sizes 0000-000 |
| 360-287 | Sizes 00-0 |
| 360-288 | Sizes 1-2 |
| 360-289 | Sizes 3-4 |
| 360-290 | Sizes 5-6 |
| 360-291 | Sizes 7-8 |



WILDER Lacrimal Dilators,
4" (10.1cm)

- 360-300** Short taper
- 360-301** Medium taper
- 360-302** Long taper



360-305 CASTROVIEJO Lacrimal Dilator,
5½" (14cm), double-ended



360-307 RUEDEMANN Lacrimal Dilator,
2¾" (7cm), short taper

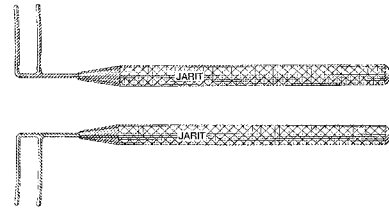


360-310 WORST "Pigtail" Probe,
5¾" (14.9cm), curved blunt tips with eye



HARMS Trabeculotomy Probes,
1½" (4.8cm), 10mm long points with 3mm spread

- 360-315** Right
- 360-316** Left



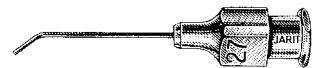
JARIT Lacrimal Cannulas,
reinforced, 23 gauge

- 360-325** 2½" (5.3cm), straight
- 360-326** 1½" (4.9cm), curved



JARIT Air Injection Cannulas,
1½" (3.8cm)

- 360-330** 30 gauge
- 360-331** 27 gauge



JARIT Sterilizing Cases,
for eye, plastic surgery, and
microsurgical instruments.
Scissors, knives, forceps, etc.
are held securely on bed of
silicone rubber. Cover is
removable.

360-502 10½" x 10" (26.5cm x 25cm)

360-504 10½" x 15" (26.5cm x 38cm)



JARIT Sterilizing Cases,
(same as shown above),
but stainless steel mesh is
coated with autoclavable
plastic, for better protection of
microsurgical instruments.

360-512 10½" x 10" (26.5cm x 25cm)

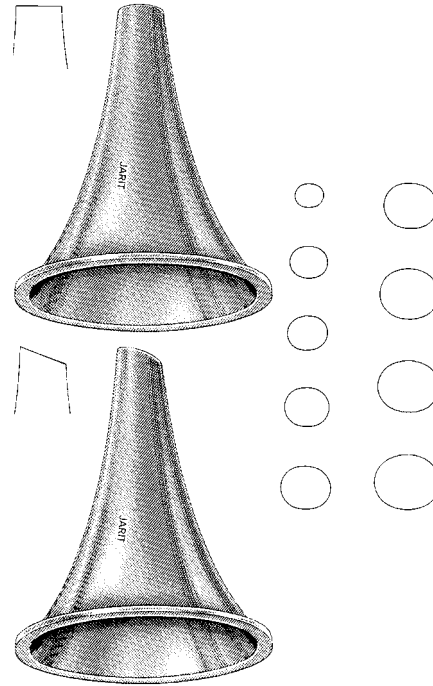
360-514 10½" x 15" (26.5cm x 38cm)

FARRIOR Ear Specula,
oval, regular end

- 375-020** 3.0mm x 4.0mm
- 375-022** 4.0mm x 5.0mm
- 375-024** 4.5mm x 5.5mm
- 375-026** 5.0mm x 6.0mm
- 375-028** 5.5mm x 6.5mm
- 375-030** 6.0mm x 7.0mm
- 375-032** 6.5mm x 7.5mm
- 375-034** 7.0mm x 8.0mm
- 375-036** 7.5mm x 8.5mm

FARRIOR Ear Specula,
oval, oblique end

- 375-040** 3.0mm x 4.0mm
- 375-042** 4.0mm x 5.0mm
- 375-044** 4.5mm x 5.5mm
- 375-046** 5.0mm x 6.0mm
- 375-048** 5.5mm x 6.5mm
- 375-050** 6.0mm x 7.0mm
- 375-052** 6.5mm x 7.5mm
- 375-054** 7.0mm x 8.0mm
- 375-056** 7.5mm x 8.5mm

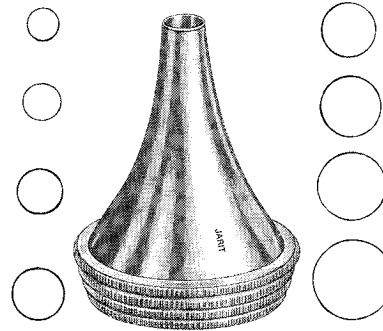


375-100 **BOUCHERON** Ear Specula,
round, small, set of 4

- 375-101** 3.0mm
- 375-102** 3.6mm
- 375-103** 4.6mm
- 375-104** 5.1mm

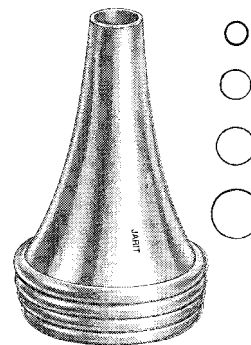
375-110 **BOUCHERON** Ear Specula,
round, large, set of 4

- 375-111** 5.6mm
- 375-112** 6.6mm
- 375-113** 7.6mm
- 375-114** 9.1mm



375-130 **TOYNBEE** Ear Specula,
round, set of 4

- 375-131** 3.0mm
- 375-132** 4.0mm
- 375-133** 5.0mm
- 375-134** 6.5mm



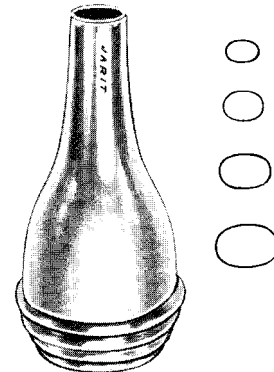
375-140 GRUBER Ear Specula,
oval, set of 4

375-141 3.0mm x 4.0mm

375-142 4.0mm x 5.0mm

375-143 5.0mm x 6.0mm

375-144 6.0mm x 7.0mm



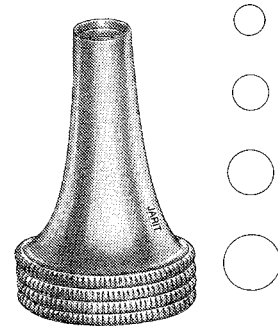
375-150 HARTMAN Ear Specula,
round, set of 4

375-151 4mm

375-152 5mm

375-153 6mm

375-154 7mm



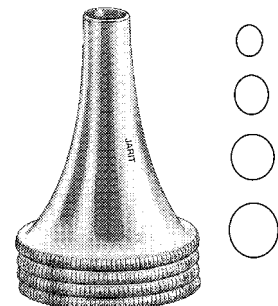
375-160 HARTMAN Ear Specula,
oval, set of 4

375-161 4.5mm x 5.0mm

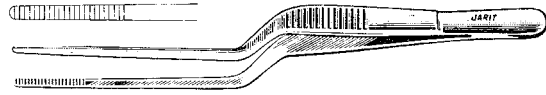
375-162 5.5mm x 6.0mm

375-163 6.5mm x 7.0mm

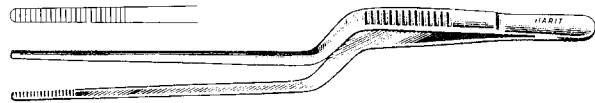
375-164 7.5mm x 8.0mm



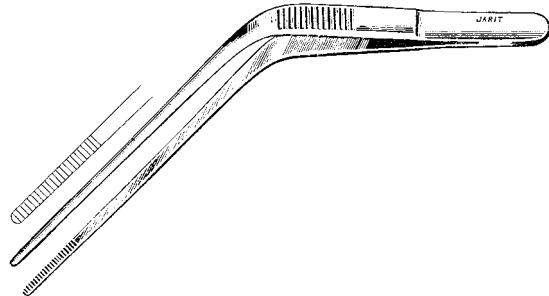
380-100 **LUCAE** Ear Dressing Forceps,
5½" (14cm)



380-105 **JANSEN** Ear Dressing Forceps,
6½" (16.5cm)



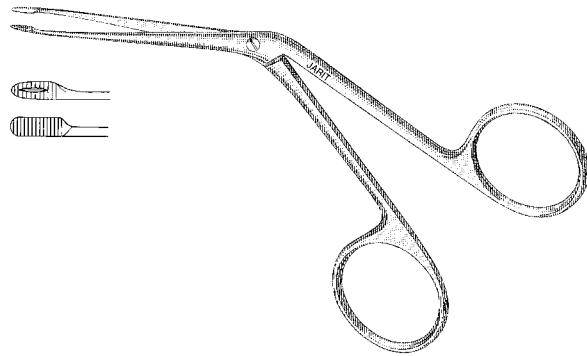
380-110 **WILDE** Ear Dressing Forceps,
4½" (11.4cm)



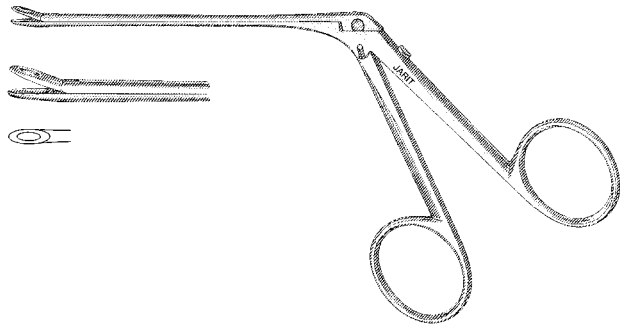
HARTMAN Ear Dressing Forceps,
2½" (6.4cm)

380-140 2mm x 6mm tapered jaws

380-141 2mm x 6.5mm jaws

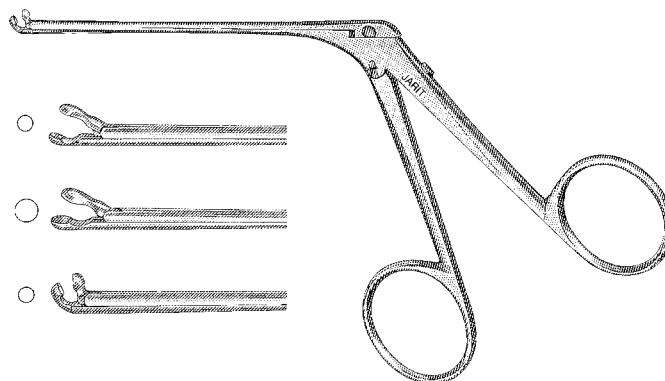


380-143 **STRUEMPEL** Alligator Ear Forceps,
3½" (8.9cm) shaft, oval cups, 2.5mm x 6mm



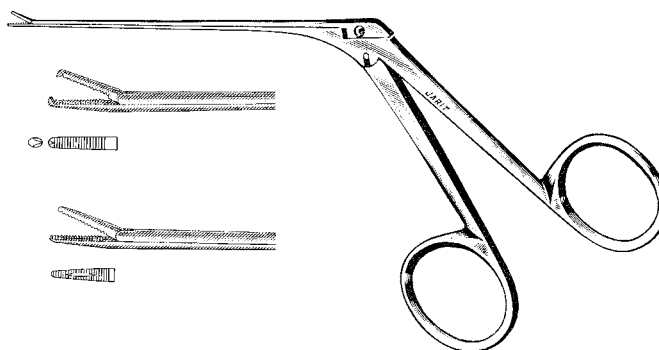
HARTMAN-HERZFELD Alligator Ear Forceps,
3" (7.6cm) shaft, round cups

- 380-145** 2mm
- 380-146** 3mm
- 380-147** 2mm, up-angled

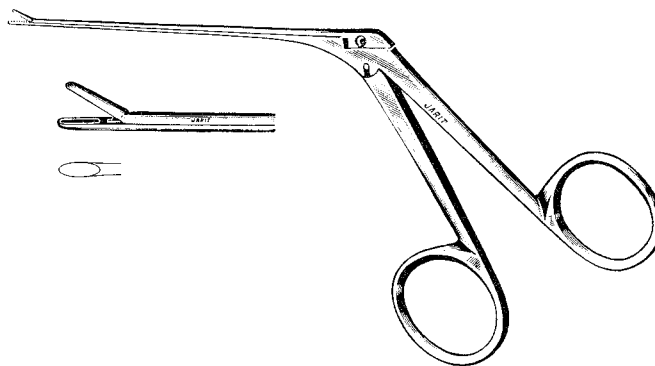


HARTMAN Alligator Ear Forceps,
3 1/2" (8.9cm) shaft

- 380-149** 1 x 2 teeth, serrated jaws, 1.6mm x 7mm
- 380-150** Serrated jaws, 1.8mm x 8mm

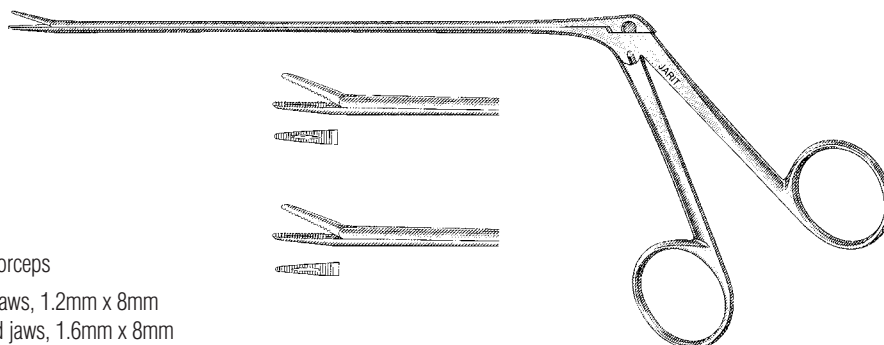


380-153 HARTMAN Alligator Ear Forceps,
3 1/4" (8.3cm) shaft, oval cups, 2mm x 7mm



HARTMAN Alligator Ear Forceps

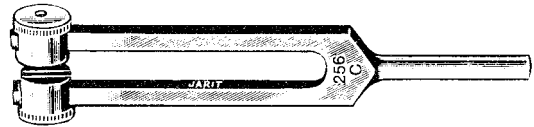
- 380-155** 5 1/2" (14cm) shaft, serrated jaws, 1.2mm x 8mm
- 380-156** 6 1/2" (16.5cm) shaft, serrated jaws, 1.6mm x 8mm



380-165 JARIT 128C Tuning Fork,
alloy metal



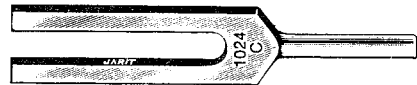
380-166 JARIT 256C Tuning Fork,
alloy metal



380-167 JARIT 512C Tuning Fork,
alloy metal

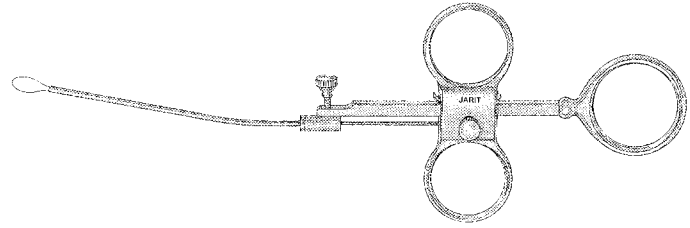


380-168 JARIT 1024C Tuning Fork,
alloy metal



380-169 JARIT 2048C Tuning Fork,
alloy metal





380-175 KRAUSE Ear Snare,
7 $\frac{1}{8}$ " (18cm), includes one package of 12 snare wires

BUCK Ear Curettes,
5 $\frac{3}{4}$ " (14.6cm), straight, blunt

- 380-180** Size 00: 2.0mm OD
- 380-181** Size 0: 2.5mm OD
- 380-182** Size 1: 3.0mm OD
- 380-183** Size 2: 3.5mm OD
- 380-184** Size 3: 4.0mm OD



BUCK Ear Curettes,
5 $\frac{3}{4}$ " (14.6cm), angled, blunt

- 380-190** Size 00: 2.0mm OD
- 380-191** Size 0: 2.5mm OD
- 380-192** Size 1: 3.0mm OD
- 380-193** Size 2: 3.5mm OD
- 380-194** Size 3: 4.0mm OD



BUCK Ear Curettes,
5 $\frac{3}{4}$ " (14.6cm), straight, sharp

- 380-200** Size 00: 2.0mm OD
- 380-201** Size 0: 2.5mm OD
- 380-202** Size 1: 3.0mm OD
- 380-203** Size 2: 3.5mm OD
- 380-204** Size 3: 4.0mm OD



BUCK Ear Curettes,
5 $\frac{3}{4}$ " (14.6cm), angled, sharp

- 380-210** Size 00: 2.0mm OD
- 380-211** Size 0: 2.5mm OD
- 380-212** Size 1: 3.0mm OD
- 380-213** Size 2: 3.5mm OD
- 380-214** Size 3: 4.0mm OD

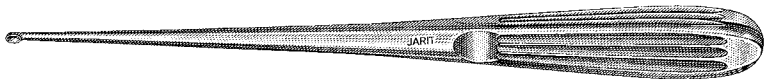




EAR CURETTES AND LOOPS

LEMPERT Endaural Currettes, 8" (20.3cm)

- 380-215** Size 5-0: 1.6mm x 2.5mm cup
- 380-216** Size 4-0: 2.0mm x 2.9mm cup
- 380-217** Size 3-0: 2.3mm x 3.6mm cup
- 380-218** Size 2-0: 2.8mm x 4.0mm cup
- 380-219** Size 0: 3.4mm x 5.7mm cup
- 380-220** Size 1: 3.8mm x 6.5mm cup
- 380-221** Size 2: 4.3mm x 7.0mm cup



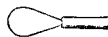
SHAPLEIGH Ear Currettes, 6" (15.2cm), serrated

- 380-223** Small: 2.0mm loop
- 380-224** Large: 3.0mm loop



BILLEAU Ear Loops, 6 1/2" (16.5cm)

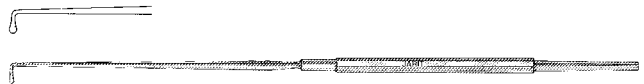
- 380-225** Large: 5.0mm x 9.0mm loop
- 380-226** Medium: 3.5mm x 5.5mm loop
- 380-227** Small: 2.5mm x 2.7mm loop



DAY Ear Hooks,
6¼" (17.1cm), 90° angle
380-230 Small: 2.0mm blunt tip
380-231 Large: 2.5mm blunt tip



380-232 ALLPORT Incus Hook,
6¼" (17.1cm), 90° angle, 3mm blunt tip



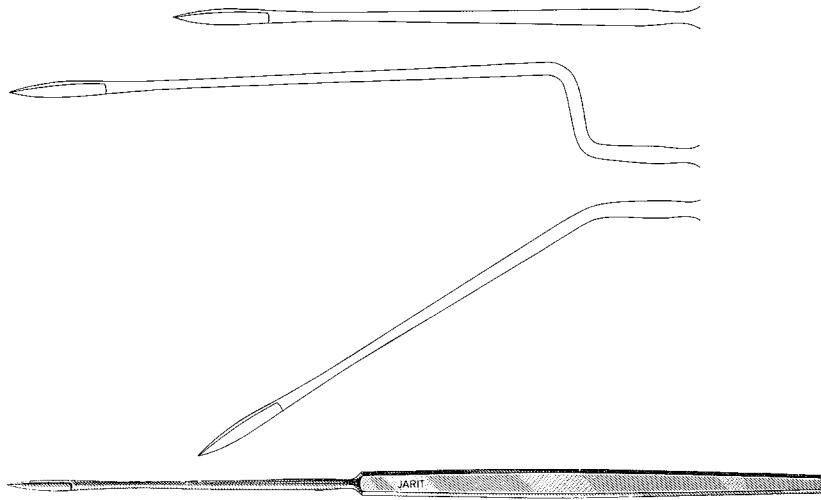
380-233 GROSS Ear Hook and Spoon,
5¼" (13.3cm), 90° angle, 4mm blunt tip,
3.5mm x 9mm spoon



JARIT EAR KNIVES, CHISELS AND GOUGES

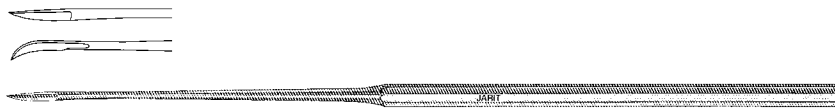
SEXTON (GERZOG) Ear Knives

- 380-235** 6 3/4" (16.2cm), straight shaft
- 380-236** 7 1/4" (18.4cm), bayonet shaft
- 380-237** 6" (15.2cm), angular shaft

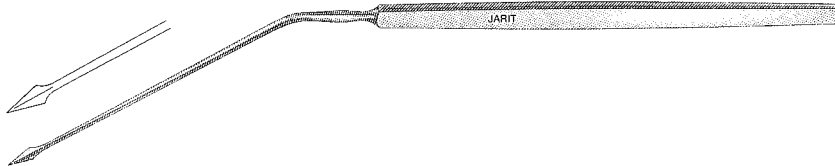


JARIT Myringotomy Knives,
6 1/2" (16.5cm)

- 380-238** Straight
- 380-239** Slightly curved



- 380-242** **POLITZER** Ear Knife,
6 1/2" (16.5cm), angular shaft



- 380-244** **BUCK** Myringotomy Knife,
6 1/2" (17.5cm)



ANDREW Mastoid Chisels,
6" (15.2cm)

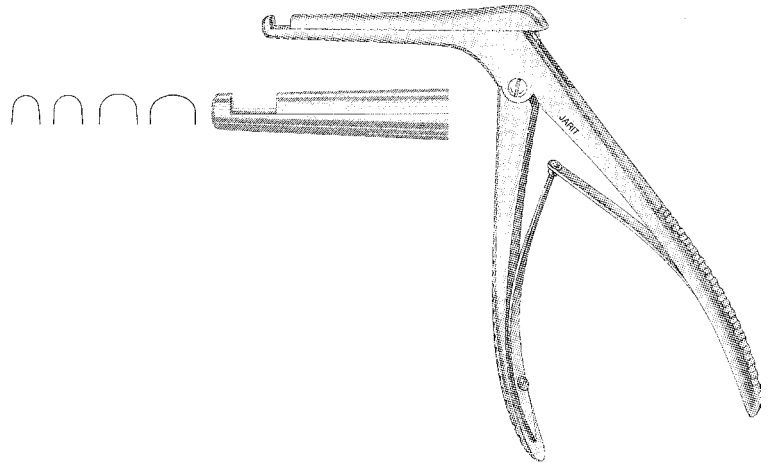
- 380-270** 5mm
- 380-271** 7mm
- 380-272** 9mm
- 380-273** 11mm



ANDREW Mastoid Gouges,
6" (15.2cm)

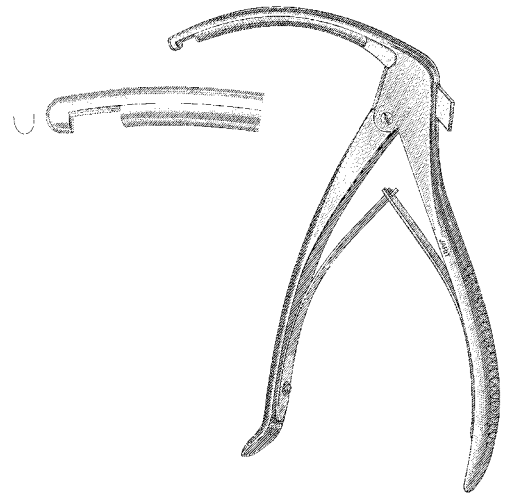
- 380-275** 6mm
- 380-276** 8mm
- 380-277** 10mm



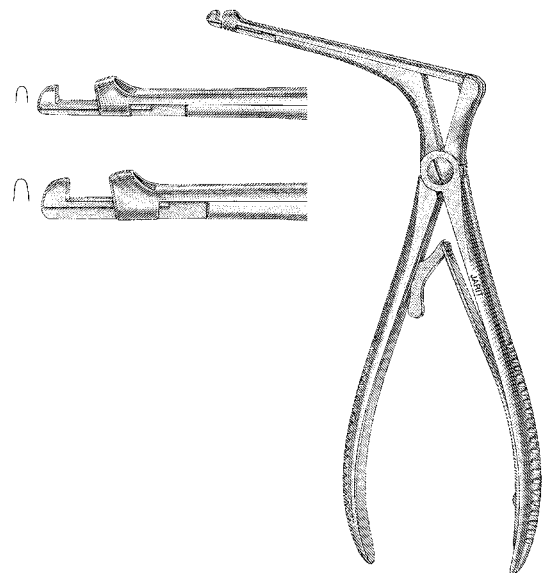


KERRISON Mastoid Rongeurs,
4" (10.2cm) shaft

- 380-300** Size 0: 3mm bite
- 380-301** Size 1: 4mm bite
- 380-302** Size 2: 5mm bite
- 380-303** Size 3: 6mm bite



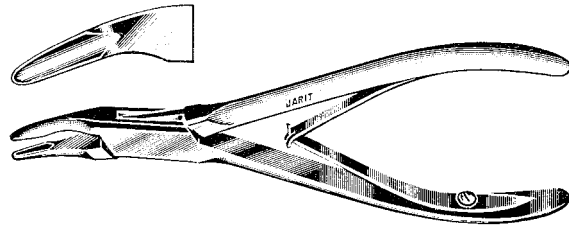
380-305 KERRISON-COSTEN Rongeur,
3 3/4" (8.5cm) curved shaft, 4mm bite



CITELLI Rongeurs,
2 1/2" (6cm) shaft

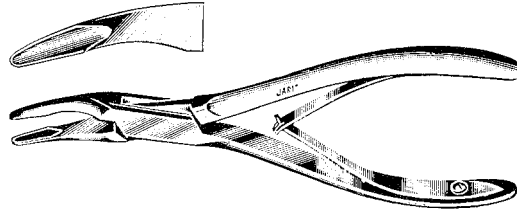
- 380-307** Size 1: 2.0mm bite
- 380-308** Size 2: 2.5mm bite

230-097 **BLUMENTHAL** Rongeur,
6" (15.2cm), 2mm bite



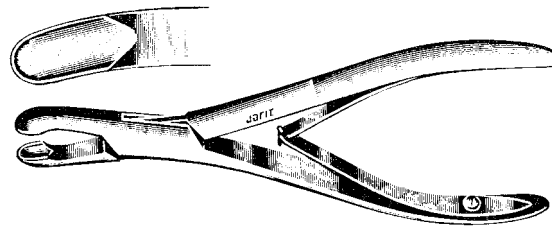
FRIEDMAN Rongeurs,
4mm bite

230-098 4½" (11.4cm)
230-099 5¼" (13.3cm)



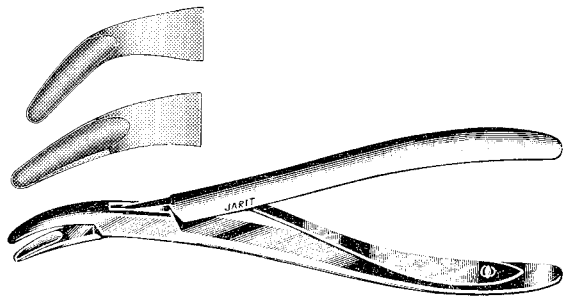
LUER Rongeurs,
7" (17.8cm), 8mm bite

230-100 Straight
230-102 Curved



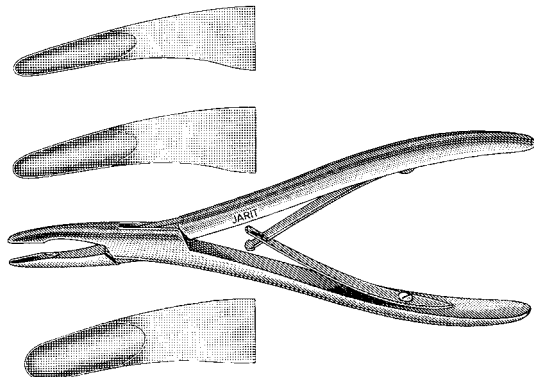
SHEARER Chicken Bill Rongeurs

230-105 5½" (14cm), 3.5mm bite
230-106 6½" (16.5cm), 4mm bite



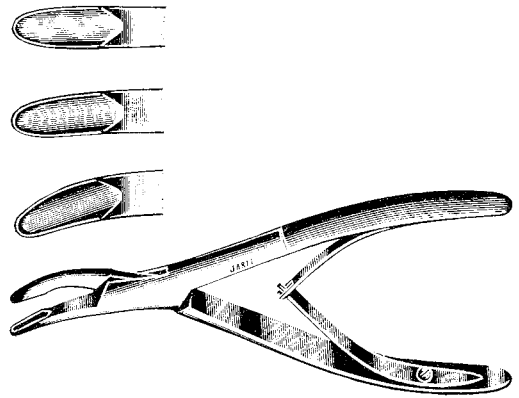
REINER Rongeurs,
7" (17.8cm)

230-110 3mm bite
230-111 4mm bite
230-112 6mm bite



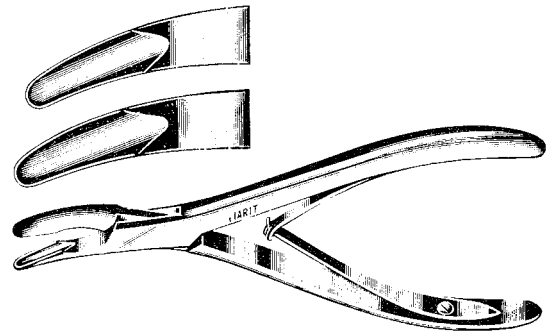
HARTMAN Rongeurs,
5 3/4" (14.6cm), 4.5mm bite

- 230-120** Straight
- 230-121** Half curved
- 230-122** Full curved



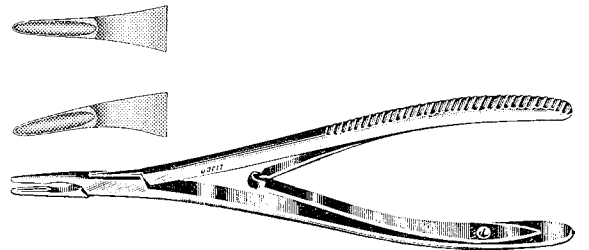
BANE Rongeurs,
7" (17.8cm)

- 230-124** 4mm bite
- 230-125** 5mm bite

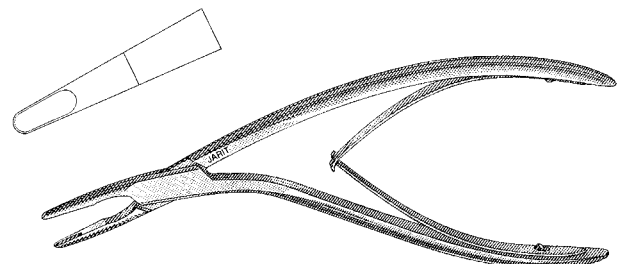


LEMPERT Rongeurs,
2.5mm bite

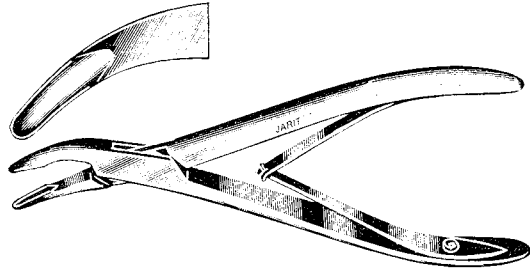
- 230-130** 6 1/4" (15.9cm), straight
- 230-131** 6 1/4" (15.9cm), curved
- 230-135** 7 1/2" (19.1cm), straight
- 230-136** 7 1/2" (19.1cm), curved



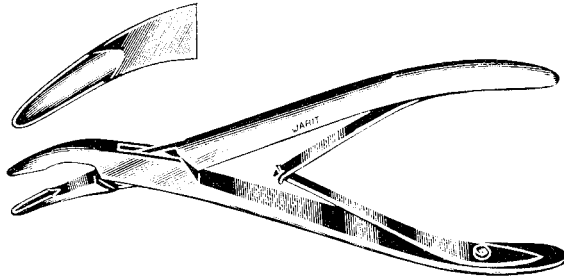
- 230-138** **JUERS-LEMPERT** Rongeur,
7 3/4" (19.7cm), curved handle, 3mm bite



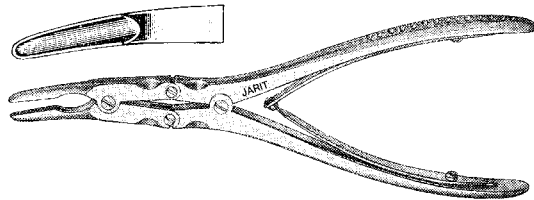
230-142 DEAN Rongeur,
5 $\frac{1}{4}$ " (14.6cm), 4mm bite



230-145 CICHERELLI Rongeur,
6 $\frac{1}{2}$ " (16.5cm), 3.5mm bite



230-205 BEYER Rongeur,
7" (17.8cm), 3mm bite



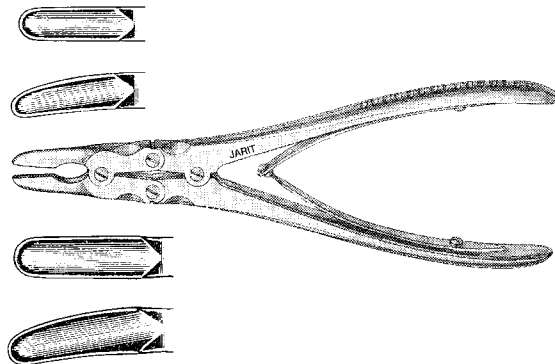
RUSKIN Rongeurs,
7 $\frac{1}{4}$ " (18.4cm)

230-210 Straight, 5mm bite

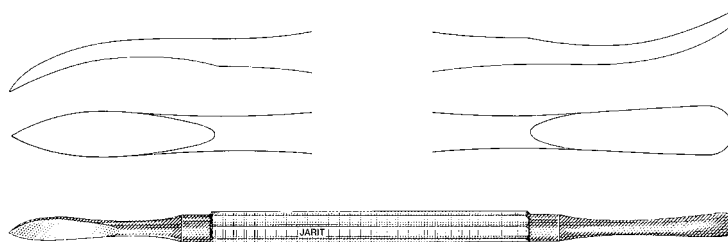
230-211 Curved, 5mm bite

230-214 Straight, 6mm bite

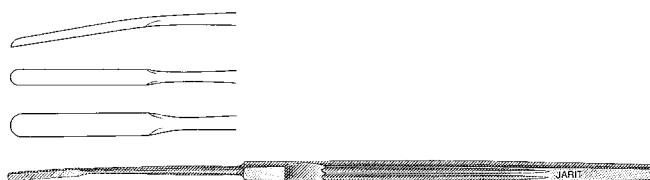
230-215 Curved, 6mm bite



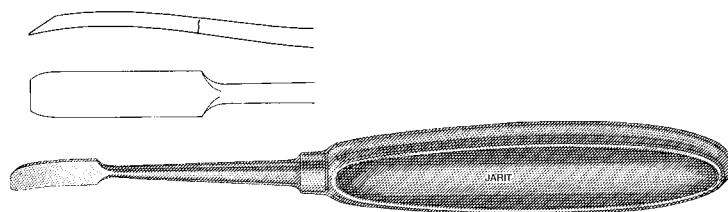
380-315 **MOLT** Periosteal Elevator,
7¼" (18.4cm), doubled-ended



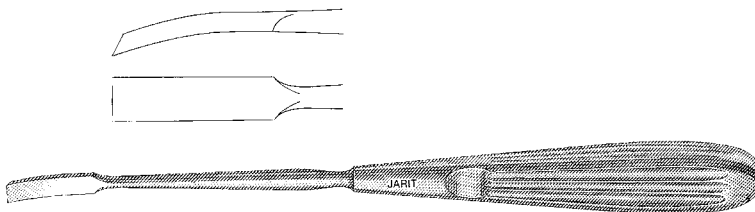
380-320 **LEMPERT** Elevators,
6½" (17.5cm), slight angle
2mm wide
380-321 3mm wide



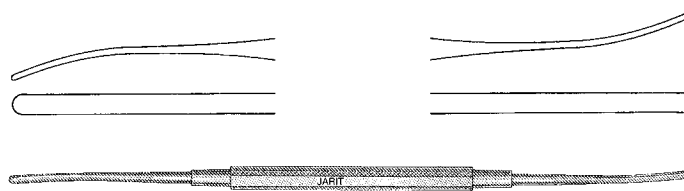
380-323 **LEMPERT** Elevator,
7¼" (18.4cm), curved blade,
7mm wide



380-325 **JARIT** Elevator,
8" (20.3cm), heavy, curved blade,
7.5mm wide



380-330 **HENNER** Elevator,
7½" (19cm), double-ended,
2mm wide



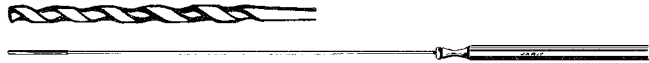
380-335 FARRELL Applicator,
5½" (14cm), triangular end



380-336 FARRELL Applicator,
5½" (14cm), roughened end



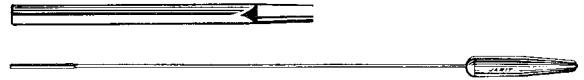
380-337 BUCK Applicator,
7¼" (18.4cm), twisted end



380-340 BUCK Applicator,
6¼" (15.9cm), triangular end



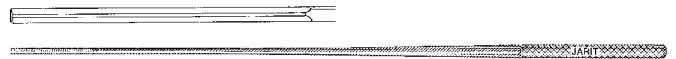
380-350 BROWN Applicator,
6" (15.2cm), triangular end, copper



380-355 UEBE Applicator,
7" (17.8cm), twisted end

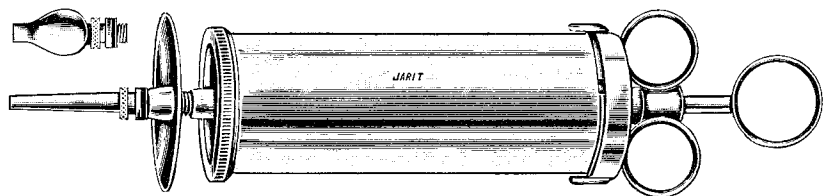


380-356 UEBE Applicator,
6 1/4" (15.9cm), triangular end



POMEROY Ear Syringes,
all metal, with one tapered tip
and one bulbous tip

- 380-360** 2 ounce (60cc) capacity
- 380-362** 4 ounce (120cc) capacity
- 380-365** Protective shield
- 380-366** Tapered tip
- 380-367** Bulbous tip





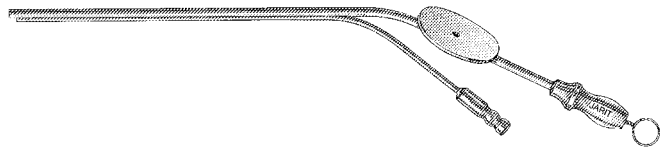
SUCTION IRRIGATORS AND TUBES

385-025 HOUSE Suction Adapter



HOUSE Suction Irrigators with thumb plate and cut-off

	Size	Overall Length	Working Length
385-030	2 x 2.5 FR	5½" (13cm)	8.5cm
385-031	2.5 x 4 FR	4½" (11.4cm)	7cm
385-032	2.5 x 4 FR	5½" (14cm)	9.5cm
385-033	4 x 5 FR	4½" (11.4cm)	7cm
385-034	4 x 5 FR	5½" (14cm)	9.5cm
385-035	5 x 7 FR	5½" (14cm)	9.5cm
385-036	6 x 8 FR	5½" (14cm)	9.5cm
385-037	7 x 10 FR	5½" (14cm)	9.5cm
385-038	8 x 12 FR	5½" (14cm)	9.5cm
385-039	12 x 14 FR	5½" (14cm)	9.5cm

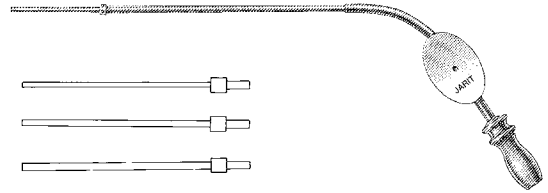


ROSEN Suction Tubes, 4" (10.1cm) overall length, 6cm working length

- 385-040** 14 gauge
- 385-041** 15 gauge
- 385-042** 16 gauge
- 385-043** 17 gauge
- 385-044** 18 gauge
- 385-045** 19 gauge
- 385-046** 20 gauge
- 385-047** 22 gauge
- 385-048** 24 gauge
- 385-049** 26 gauge



385-050 **BELLUCCI** Suction Tube,
10.5cm working length,
complete with 18, 20, and 22 gauge tips,
thumb-plate and cut-off

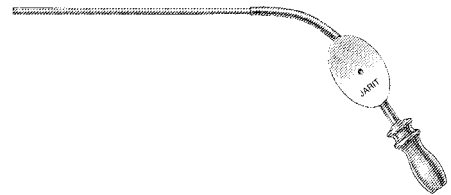


BELLUCCI Tips only

- 385-051** 18 gauge
- 385-052** 20 gauge
- 385-054** 22 gauge
- 385-055** 24 gauge
- 385-056** 26 gauge

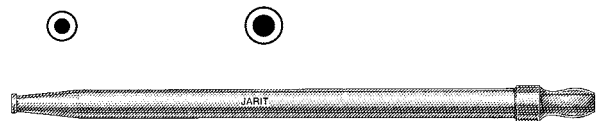


385-058 **BELLUCCI** Cannula only



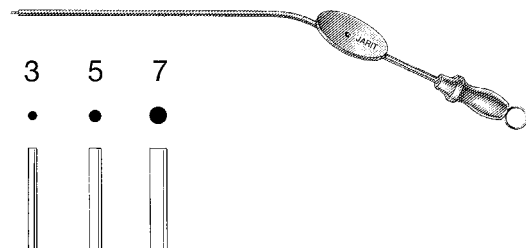
ANTHONY Suction Tubes,
5/8" (14.9cm)

- 385-060** Small: 2mm lumen at tip
- 385-062** Large: 3mm lumen at tip



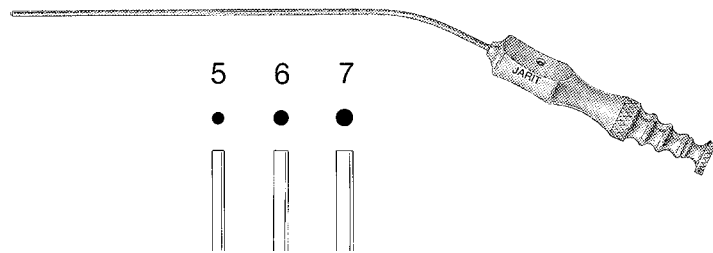
BARON Suction Tubes,
 5½" (14cm) overall length,
 3" (7.6cm) working length

- 385-080** 3 French
- 385-082** 5 French
- 385-084** 7 French



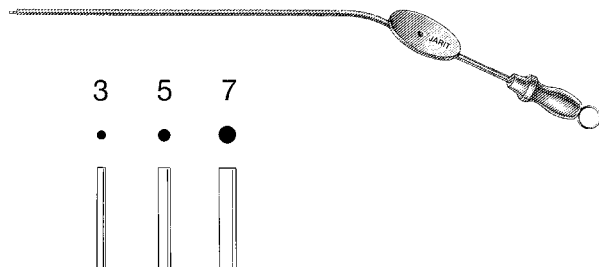
FRAZIER Suction Tubes,
 7" (17.8cm) overall length,
 4¼" (10.8cm) working length

- 285-449** 5 French
- 285-450** 6 French
- 285-451** 7 French



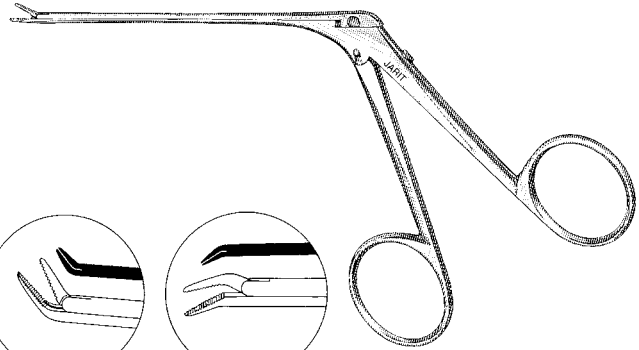
BARON Suction Tubes,
 6½" (16.5cm) overall length,
 4" (10.1cm) working length

- 285-480** 3 French
- 285-482** 5 French
- 285-484** 7 French



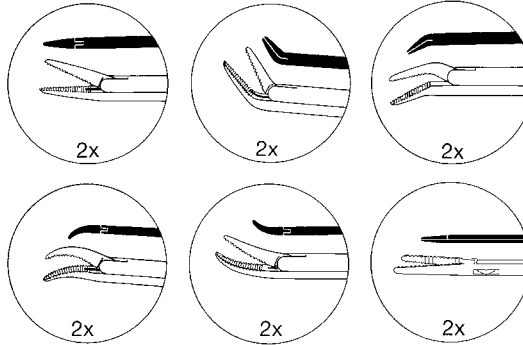


MICROSURGERY ALLIGATOR FORCEPS

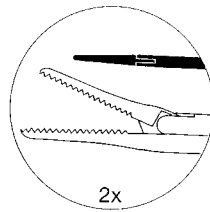


HOUSE Alligator Ear Forceps,
3" (7.6cm) shaft, serrated jaws,
0.9mm x 4.0mm
(Details Shown Left to Right)

- 385-100** Straight
- 385-102** Up-angled
- 385-104** Down-angled
- 385-106** Left curved
- 385-108** Right curved
- 385-110** Side opening to right

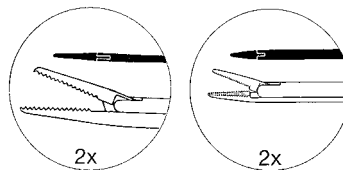


385-115 **HOUSE** Crimper Forceps,
2 7/8" (7.3cm) shaft,
flat tapered serrated jaws 8mm



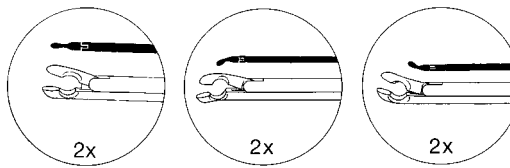
HOUSE Alligator Ear Forceps,
2 7/8" (7.3cm) shaft,
serrated jaws

- 385-120** Fine, 5mm jaws
- 385-121** Delicate, 4mm jaws

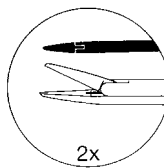


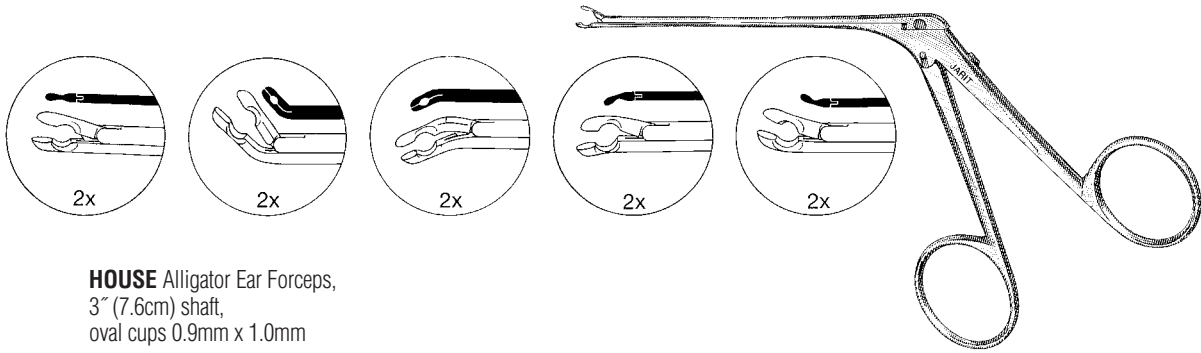
HOUSE Miniature Cup Forceps,
2 7/8" (7.3cm) shaft,
oval cups 0.6mm x 1.0mm

- 385-125** Straight
- 385-126** Angled left
- 385-127** Angled right



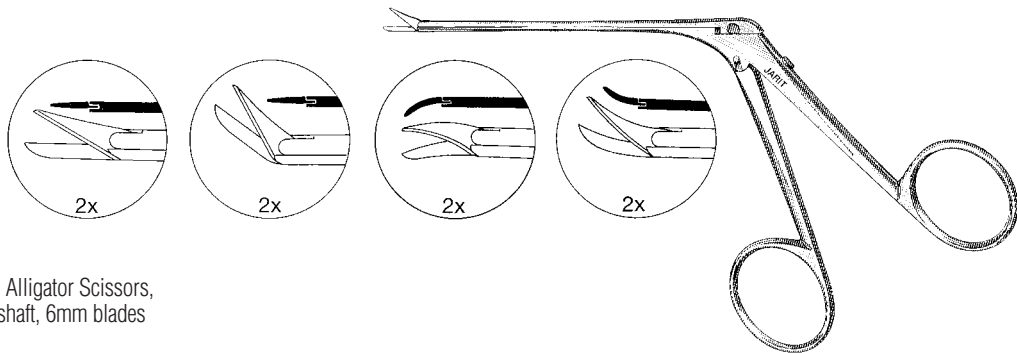
385-130 **HOUSE** Strut Forceps,
3" (7.6cm) shaft, smooth jaws,
0.9mm x 4mm





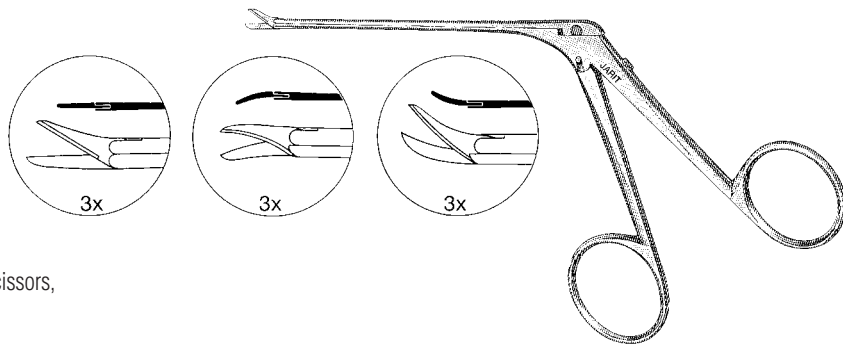
HOUSE Alligator Ear Forceps,
3" (7.6cm) shaft,
oval cups 0.9mm x 1.0mm

- 385-140** Straight
- 385-142** Up-angled
- 385-144** Down-angled
- 385-146** Left curved
- 385-148** Right curved



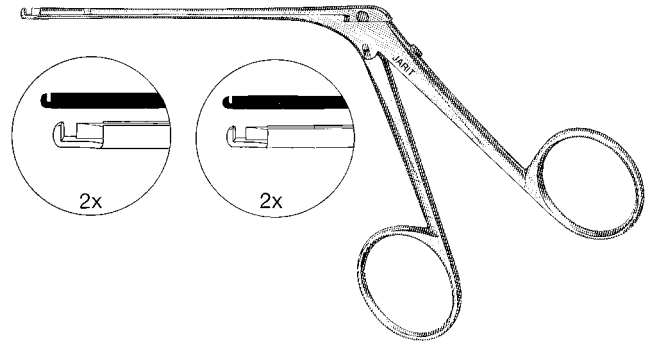
BELLUCCI Alligator Scissors,
3" (7.6cm) shaft, 6mm blades

- 385-200** Straight
- 385-202** Up-angled
- 385-204** Left curved
- 385-206** Right curved



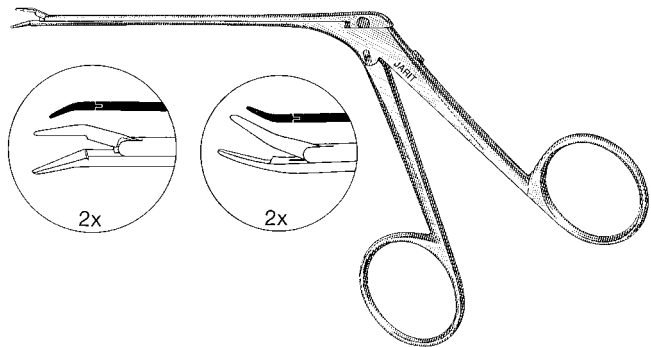
HOUSE-BELLUCCI Alligator Scissors,
2 7/8" (7.3cm) shaft, 5mm blades

- 385-210** Straight
- 385-211** Left curved
- 385-212** Right curved



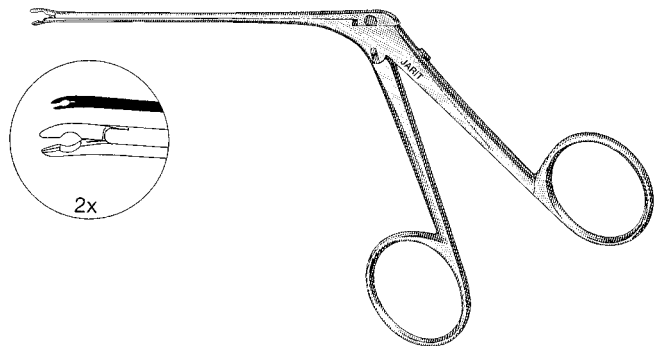
HOUSE-DIETERS Malleus Nippers,
2 $\frac{1}{2}$ " (7.3cm) shaft

385-240 large
385-242 small

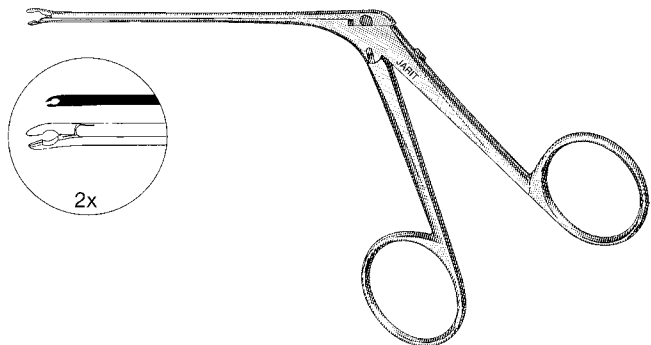


HOUGH Crura Nippers,
2 $\frac{1}{2}$ " (7.3cm) shaft, 3mm jaws, 45° angle

385-245 Left
385-246 Right



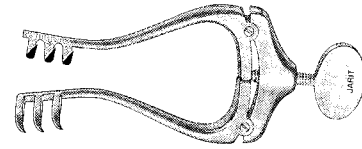
385-250 **McGEE** Wire Closure Forceps,
3" (7.6cm) shaft, 3mm jaws



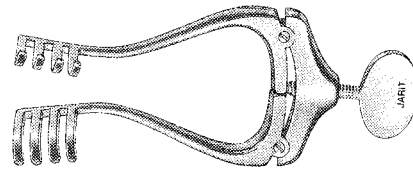
385-252 **McGEE** Malleus Crimper or Wire Closure Forceps,
2 $\frac{1}{2}$ " (7.3cm) shaft, 3mm jaws

JANSEN Retractors,
4" (10.2cm)

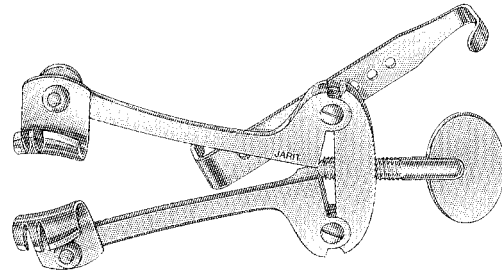
- 290-100** 3 x 3 sharp prongs, 9mm deep
- 290-101** 3 x 3 blunt prongs, 9mm deep



- 290-102** **JANSEN** Retractor,
4½" (11.4cm), 4 x 4 blunt prongs, 22mm deep

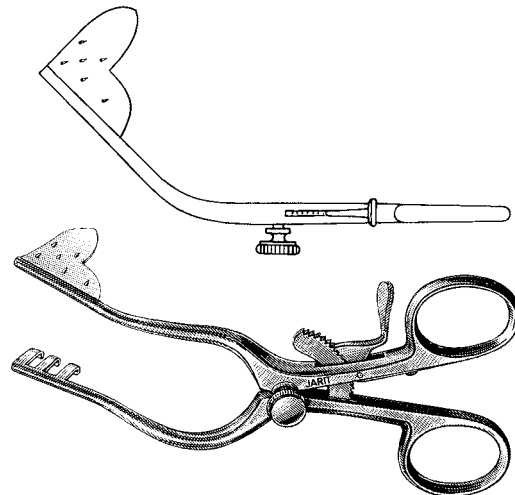


- 385-255** **HENNER** Endaural Retractor,
4½" (11.4cm), 13mm x 18mm curved blades,
6mm x 10mm and 12mm x 75mm
temporal muscle blades

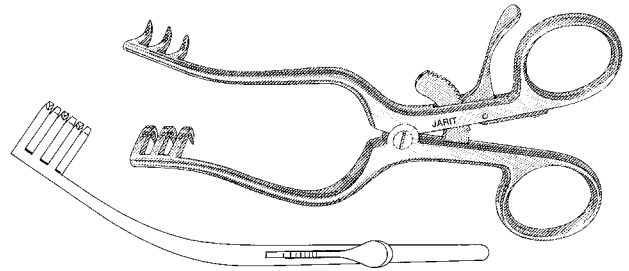


PERKINS Retractors,
5½" (13cm), curved arms

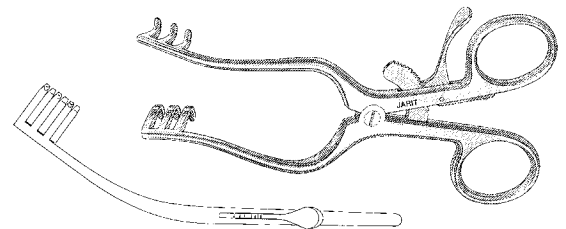
- 385-257** 3 semi-sharp prongs, 7mm deep, on right,
11mm x 25mm solid blade with teeth on left
- 385-258** 3 semi-sharp prongs, 7mm deep, on left,
11mm x 25mm solid blade with teeth on right



385-260 WULLSTEIN Retractor,
5" (12.7cm), curved arms,
3 x 3 sharp prongs, 12mm deep



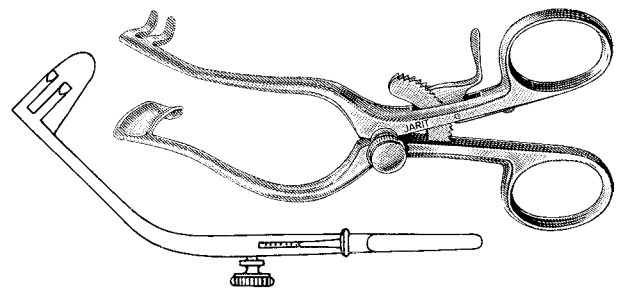
385-262 WEITLANER Retractor,
4 1/4" (10.5cm), curved arms,
3 x 3 blunt prongs, 12mm deep



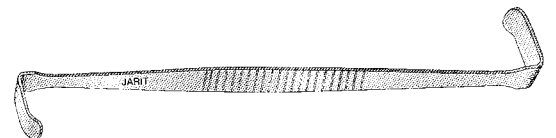
BELLUCCI-WULLSTEIN Retractors,
5 1/2" (13cm) curved arms

385-265 2 semi-sharp prongs, 13mm deep, on right,
10mm x 20mm solid blade on left

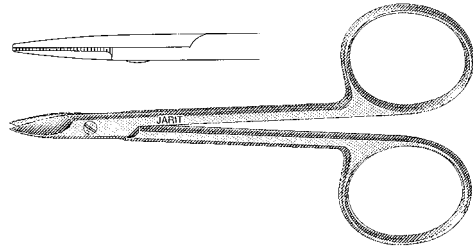
385-266 2 blunt prongs, 13mm deep, on left,
10mm x 20mm solid blade on right



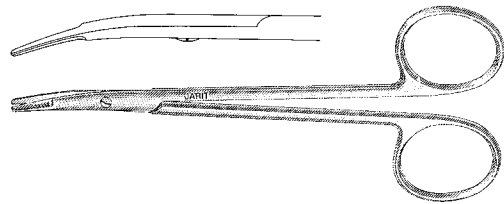
385-270 HOUSE Hand Retractor,
6" (15.2cm), double-ended,
6.5mm x 20mm and 9mm x 25mm blades



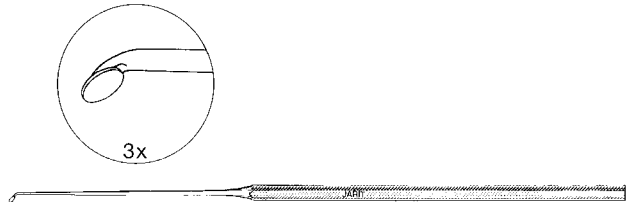
385-280 GUILFORD Scissors,
3 $\frac{3}{4}$ " (9.5cm), 12mm blades, one blade serrated



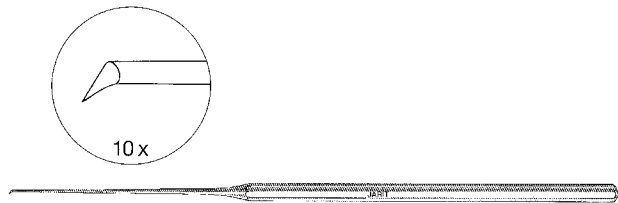
385-285 SHEA Vein Graft Scissors,
4 $\frac{1}{4}$ " (12.1cm), curved, flat dissecting tips



385-305 HOUSE Middle Ear Mirror,
6 $\frac{1}{4}$ " (16.8cm), 2mm diameter, 45° angle

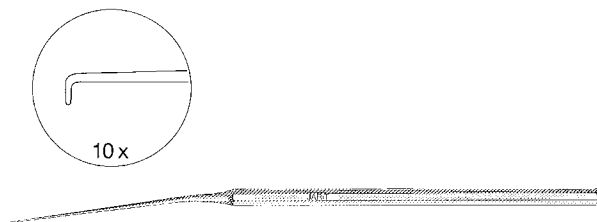


385-310 HOUSE Obtuse Pick,
6 $\frac{1}{4}$ " (15.9cm), malleable shaft,
0.25mm tip, 30° angle

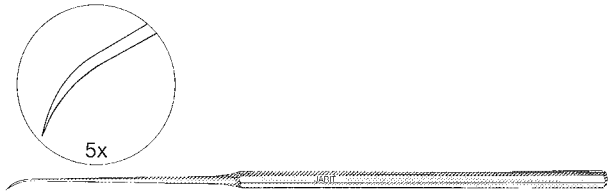


HOUSE Hooks,
6 $\frac{1}{4}$ " (16.8cm), angled malleable shaft,
1mm tip

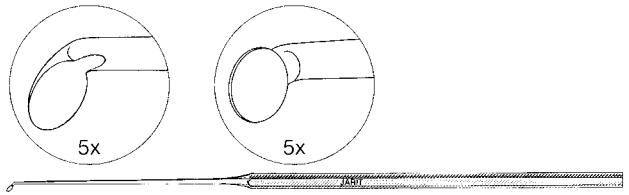
- 385-315** 90° left angled
- 385-316** 90° right angled



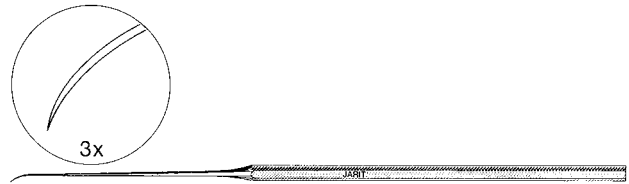
385-317 HOUSE Needle,
6 $\frac{1}{4}$ " (16.8cm), malleable shaft,
semi-sharp curved tip



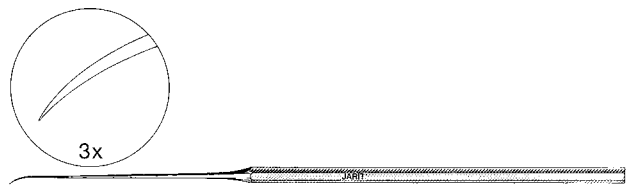
HOUSE-SHEEHY Knife Curettes,
6 $\frac{1}{4}$ " (16.8cm), malleable shaft
385-320 "Small weapon", 2mm semi-sharp blade
385-321 "Large weapon", 2.5mm semi-sharp blade



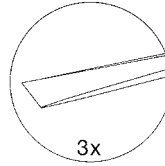
385-326 HOUSE-ROSEN Needle,
6 $\frac{1}{4}$ " (15.9cm), malleable shaft,
semi-sharp tip, 3mm curve from tip



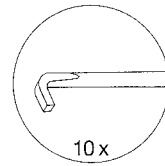
385-327 HOUSE-ROSEN Needle,
6 $\frac{1}{4}$ " (15.9cm), malleable shaft,
semi-sharp curved tip



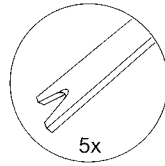
385-330 HOUSE Footplate Chisel,
6⁷/₈" (16.8cm), angled malleable shaft,
0.6mm tip



385-335 HOUSE-HOUGH Excavator,
6⁷/₈" (16.8cm), malleable shaft,
0.33mm tip, 90° angle



385-340 HOUSE Wire Strut Guide,
6⁷/₈" (15.6cm), angled, malleable shaft,
0.6mm tip with notched end



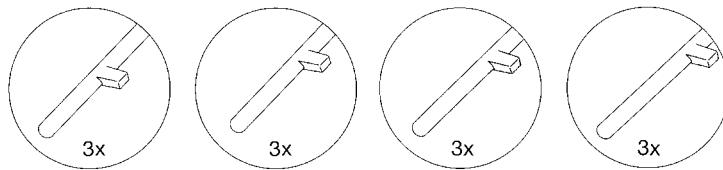
HOUSE Strut Calipers,
6⁷/₈" (16.8cm), malleable shaft

385-345 Marker 3.5mm from tip

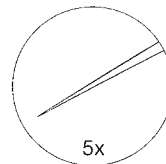
385-346 Marker 4mm from tip

385-347 Marker 4.5mm from tip

385-348 Marker 5mm from tip

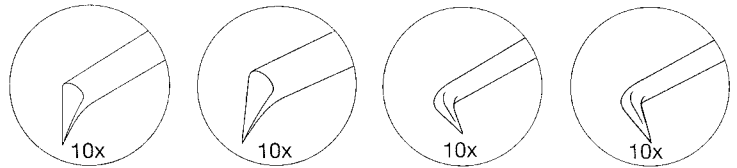


385-350 HOUSE-BARBARA Pick,
6⁵/₁₆" (16.8cm), malleable shaft, straight tip



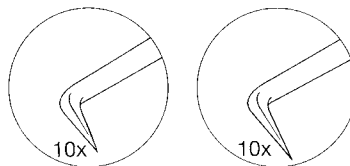
HOUSE Oval Window Picks,
6⁵/₁₆" (16.8cm), malleable shaft

385-351 0.33mm tip, 30° angle
385-352 0.66mm tip, 30° angle
385-353 0.33mm tip, 90° angle, fine shaft
385-354 0.33mm tip, 90° angle, medium shaft



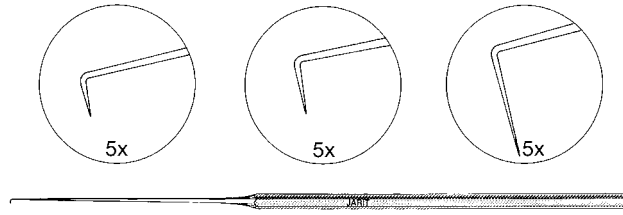
HOUSE Strut Picks,
6⁵/₁₆" (16.8cm), malleable medium shaft,
90° angle

385-355 0.5mm tip
385-356 0.66mm tip

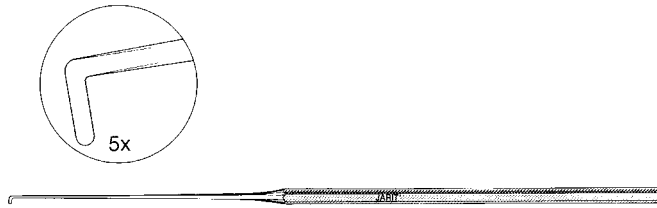


HOUSE Picks,
6 7/8" (16.8cm), malleable heavy shaft, 90° angle

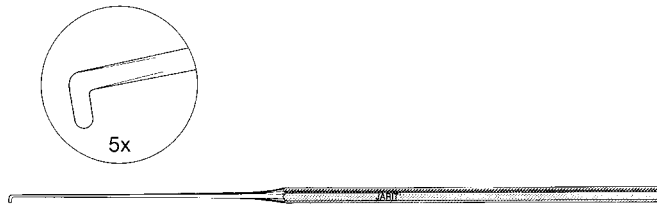
- 385-360** 1mm tip
- 385-361** 1.5mm tip
- 385-362** 3mm tip



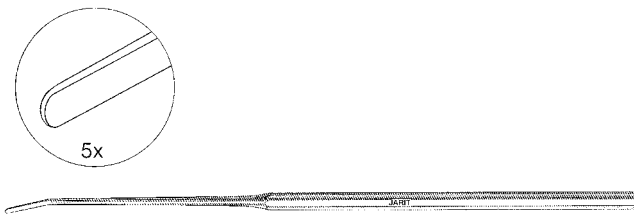
385-370 HOUSE-CRABTREE Dissector Pick "Jimmy",
6 7/8" (16.8cm), 0.5mm x 2.5mm flat tip, 90° angle



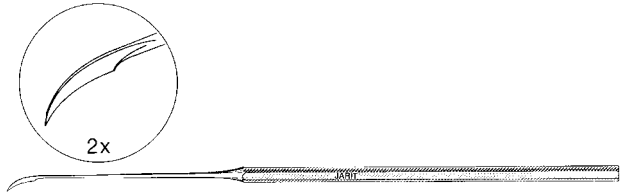
385-371 HOUSE-CRABTREE Dissector,
6 7/8" (16.8cm), 0.5mm x 1.5mm flat tip, 90° angle



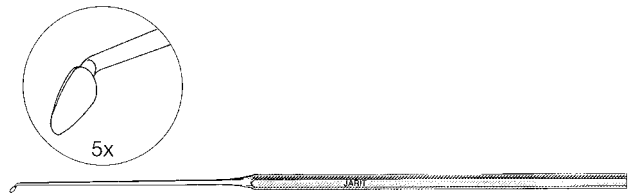
385-380 HOUSE Elevator "Gimmick",
6 7/8" (16.8cm), 1mm x 12mm blade, 15° angle



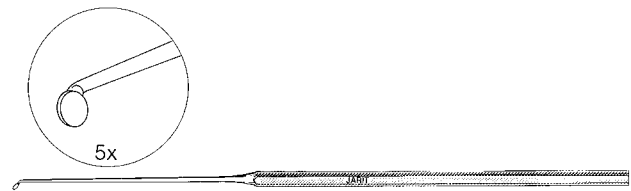
385-382 **HOUSE** Tympanoplasty Knife,
6 $\frac{1}{8}$ " (16.8cm), 7mm curved blade



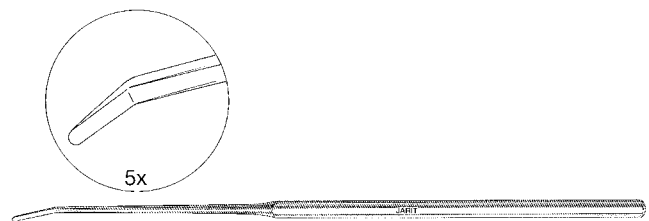
385-384 **HOUSE** Lancet Knife "Number Two Knife",
6 $\frac{1}{8}$ " (16.8cm), 2mm x 3mm tapered blade, 45° angle



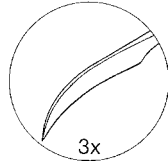
385-386 **HOUSE** Incudostapedial Joint Knife,
6 $\frac{1}{8}$ " (16.8cm), 0.75mm blade, 60° angle



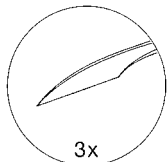
385-388 **HOUSE** Incudostapedial Joint Knife,
6 $\frac{1}{8}$ " (16.8cm), 0.5mm x 1.5mm blade, 20° angle



385-390 **HOUSE** Sickle Knife "Number One Knife",
6 7/8" (16.8cm), 7.5mm curved blade

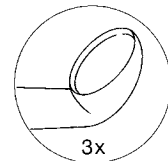
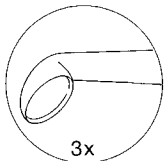
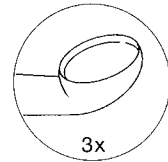
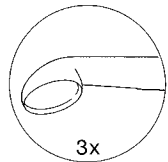


385-392 **HOUSE** Myringotomy Knife,
6 7/8" (16.8cm), 3.5mm blade

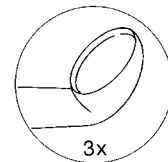
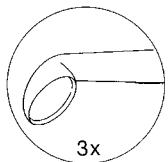


HOUSE Curettes,
7 1/2" (18cm), double-ended,
2mm x 2.5mm and 2.25mm x 3mm cups

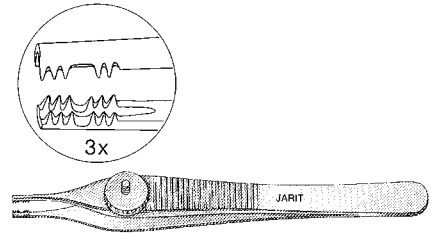
385-400 Light angle
385-401 Strong angle



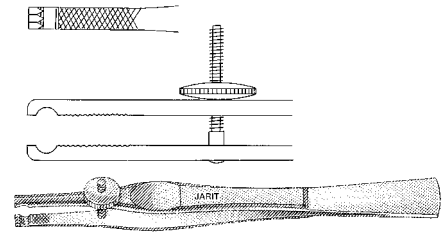
385-402 **HOUSE** Stapes Curette,
6" (15.2cm), double-ended,
2mm x 2.5mm and 2.25 x 3mm cups, 35° angle



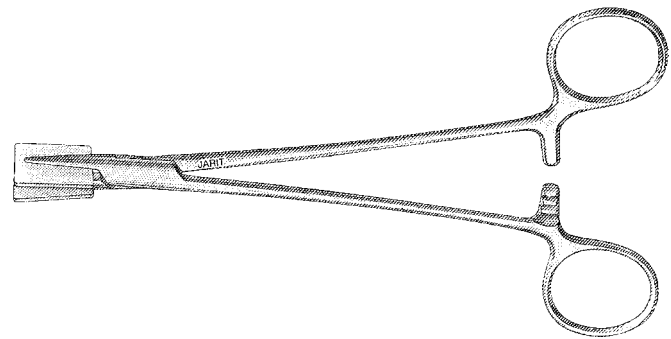
385-430 DERLACKI Ossicle Holding Clamp,
 4 7/8" (12.3cm), 1.5mm x 4mm vertical groove
 and 1.5mm x 2mm horizontal groove



385-440 SHEEHY Ossicle Holding Clamp,
 4 7/8" (12.1cm), 1.5mm x 4mm vertical groove



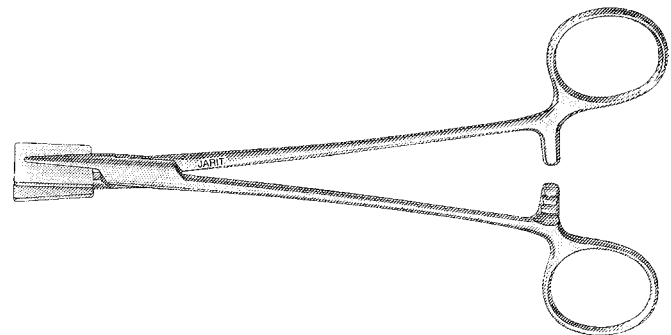
385-500 SHEEHY Fascia Press,
 7 1/2" (19cm), 23mm x 31mm plates



GEL FOAM Presses

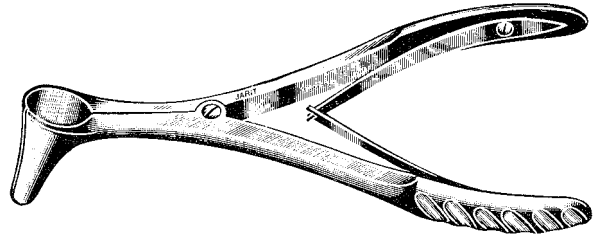
385-505 5 1/4" (13cm), 12mm x 15mm plates

385-506 7 1/2" (19cm), 12mm x 16mm plates

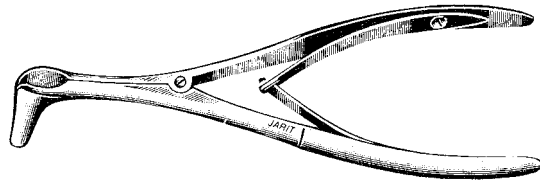


VIENNA Nasal Specula,
5¼" (13.5cm), original pattern

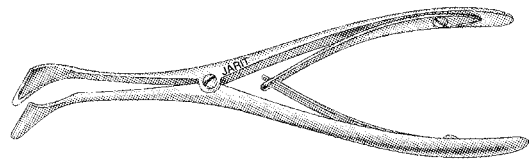
- 400-100** Small: 29mm blades
- 400-101** Medium: 30mm blades
- 400-102** Large: 33mm blades



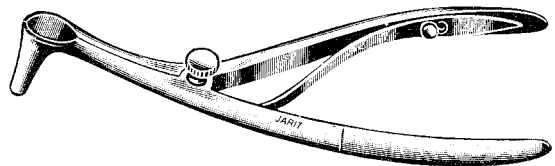
400-105 SONNENSCHN Nasal Speculum,
6¼" (15.6cm), 29mm blades



400-110 TIEK-HALLE Infant Nasal Speculum,
5¼" (13.5cm), 18mm blades



400-112 BECKMAN Nasal (Endaural) Speculum,
5½" (14cm), side curved, 27mm blades

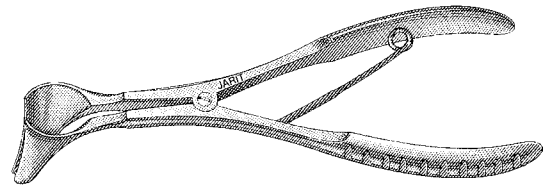


VIENNA Nasal Specula,
5½" (14cm), conventional blades

400-115 Small: 28mm blades

400-116 Medium: 30mm blades

400-117 Large: 33mm blades

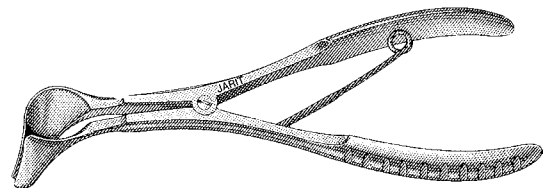


VIENNA Nasal Specula,
5½" (14cm), modified blades

400-120 Small: 28mm blades

400-121 Medium: 30mm blades

400-122 Large: 33mm blades



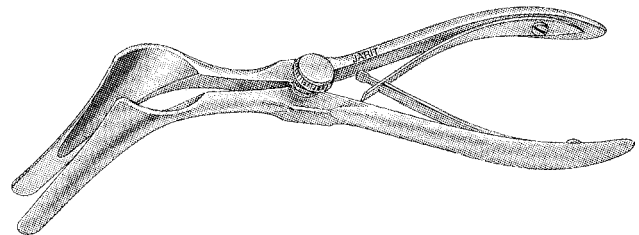
KILLIAN Septum Specula

400-130 5½" (14cm), 51mm blades

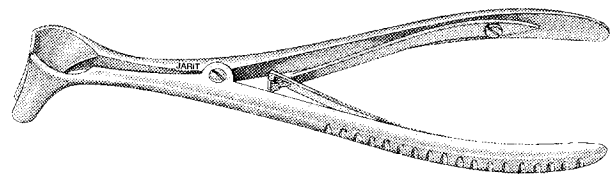
400-131 5¾" (14.5cm), 64mm blades

400-132 5¾" (15cm), 76mm blades

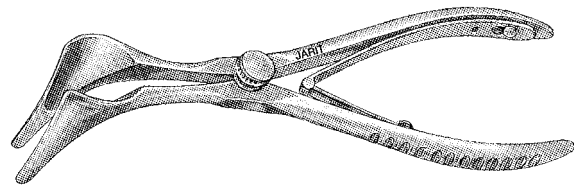
400-134 6¾" (15.6cm), 90mm blades



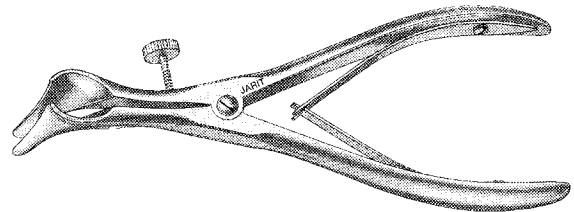
400-135 **HARTMAN** Nasal Speculum,
6" (15.2cm), 32mm blades



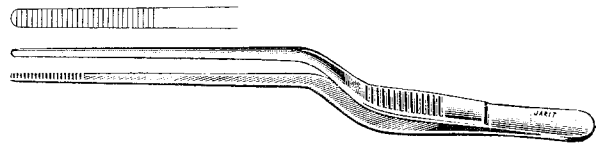
400-136 COTTLE Septum Speculum,
5½" (14cm), 50mm thin blades, tapered to 4mm wide



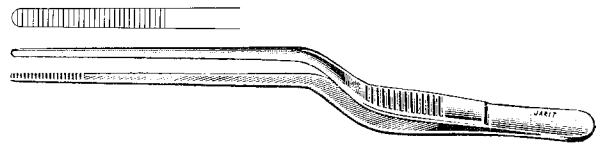
- COTTLE** Septum Specula,
narrow tapered blades
- 400-140** Size 1: 5¾" (13.7cm),
30mm blades, tapered 9mm to 4mm wide
 - 400-141** Size 2: 5½" (14cm),
35mm blades, tapered 10mm to 8mm wide
 - 400-142** Size 3: 5¼" (14.6cm),
55mm blades, tapered 10mm to 6mm wide
 - 400-143** Size 4: 5¼" (14.6cm),
55mm blades, tapered 10mm to 8mm wide
 - 400-144** Size 5: 6¼" (15.6cm),
70mm blades, tapered 10mm to 8mm wide
 - 400-145** Size 6: 6¼" (16cm),
80mm blades, tapered 10mm to 8mm wide
 - 400-146** Size 7: 6½" (16.5cm),
90mm blades, tapered 10mm to 8mm wide



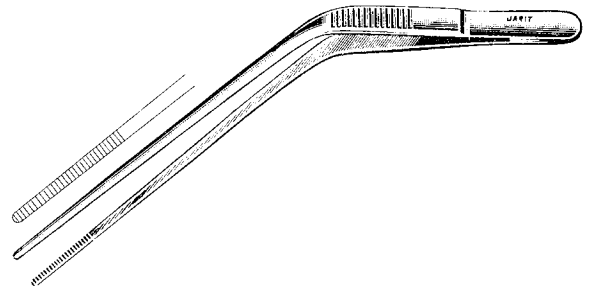
400-150 JANSEN Nasal Dressing Forceps,
7½" (19.1cm)



400-152 GRUENWALD Nasal Dressing Forceps,
8" (20.3cm)



400-155 WILDE Nasal Dressing Forceps,
6½" (16.5cm)

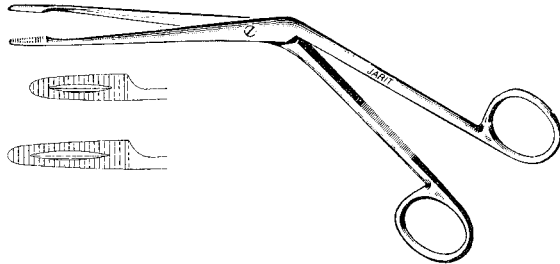




NASAL DRESSING FORCEPS

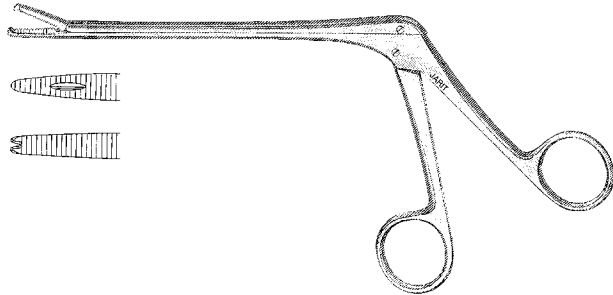
HARTMAN Nasal Dressing Forceps,
4" (10.2cm) shaft

- 400-160 Delicate
- 400-161 Regular

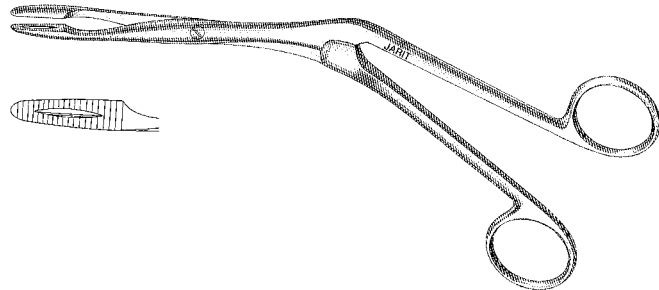


NOYES Nasal Dressing Forceps,
5½" (14cm) shaft

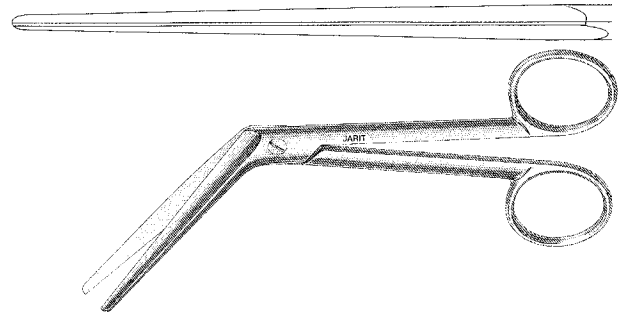
- 400-170 Serrated jaws
- 400-171 1 x 2 teeth



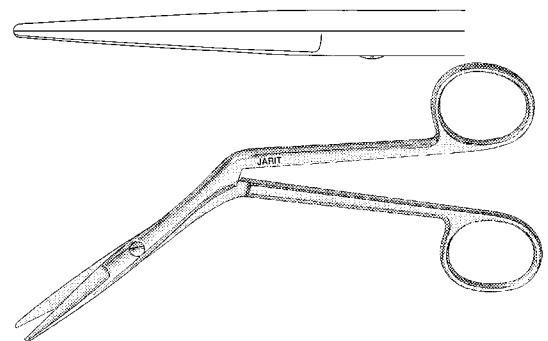
- 400-175 **KNIGHT** Nasal Dressing Forceps,
7" (17.8cm)



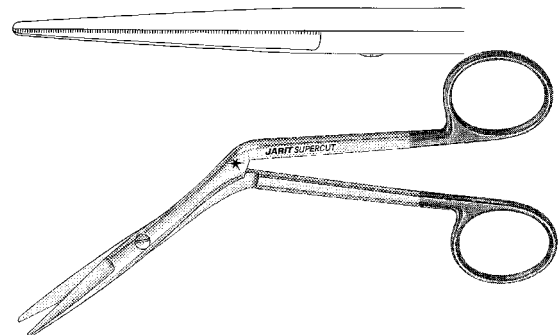
400-177 SEILER Turbinate Scissors,
6 $\frac{3}{4}$ " (16.8cm), 65mm blades



400-180 KNIGHT Nasal Scissors,
6 $\frac{3}{4}$ " (17.1cm), 40mm blades

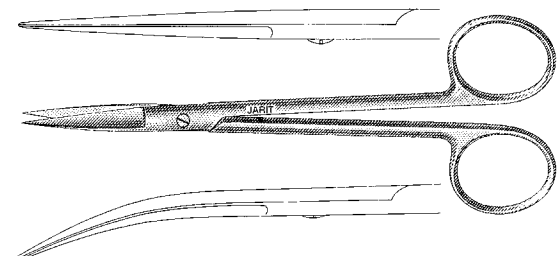


102-180 KNIGHT SUPERCUT Nasal Scissors,
6 $\frac{3}{4}$ " (17.1cm), 40mm blades

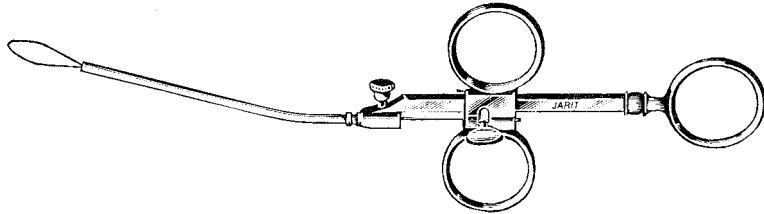


JOSEPH Scissors,
5 $\frac{3}{4}$ " (14.6cm)

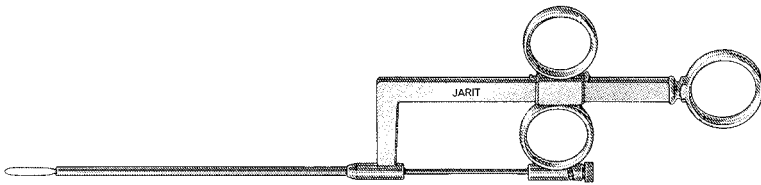
- 100-278** Straight
- 100-279** Curved



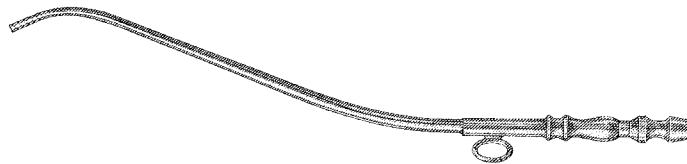
400-185 **KRAUSE** Nasal Snare,
10" (25.5cm), includes 1 package
of 12 snare wires, 28 gauge



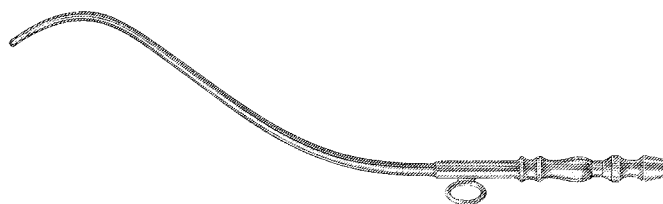
400-187 **BRUENING** Nasal Snare,
9½" (24cm), includes 1 package
of 12 snare wires, 28 gauge



400-200 **VAN ALYEA** Frontal Sinus Cannula,
6" (15.1cm), light curve, silver



400-202 **VAN ALYEA** Frontal Sinus Cannula,
6 1/2" (15.8cm), strong curve, silver



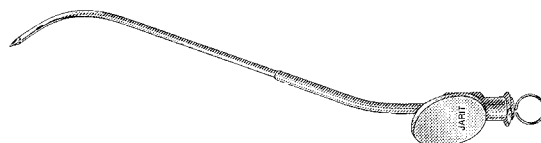
400-210 **VAN ALYEA** Antrum Cannula,
4 1/2" (11.4cm), light curve



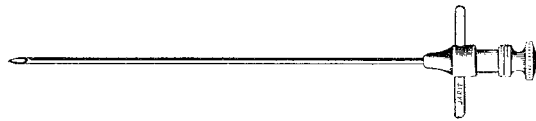
400-212 **VAN ALYEA** Antrum Cannula,
4 1/2" (11.4cm), strong curve



400-215 **VAN ALYEA** Antrum Cannula,
4 1/2" (11.4cm), trocar tip

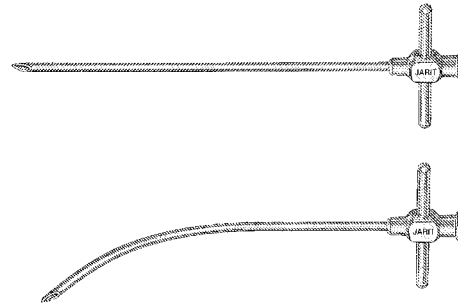


400-220 **LICHTWICZ** Antrum Trocar Needle,
4 3/4" (11.2cm), 14 gauge with crossbar



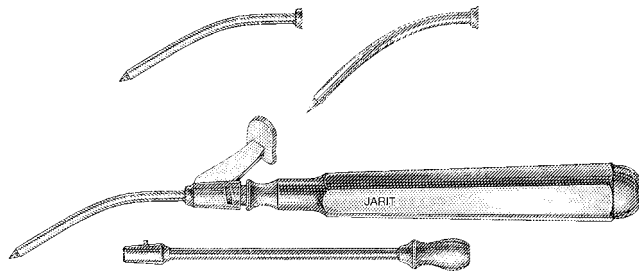
RUSKIN Antrum Trocar Needles,
4 1/2" (10.5cm), 14 gauge with crossbar

400-222 Straight
400-223 Curved

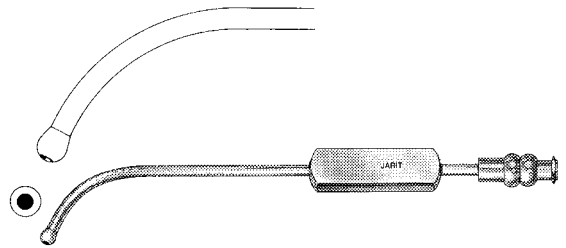


COAKLEY Antrum Trocars,
6 1/4" (15.9cm), with cannula and irrigating extension

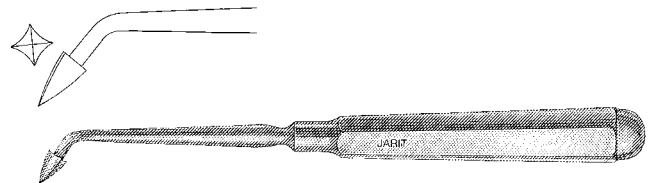
400-225 Light curve
400-226 Strong curve



400-230 KILLIAN (VON EICKEN) Antrum Cannula,
5½" (14cm), 3.5mm

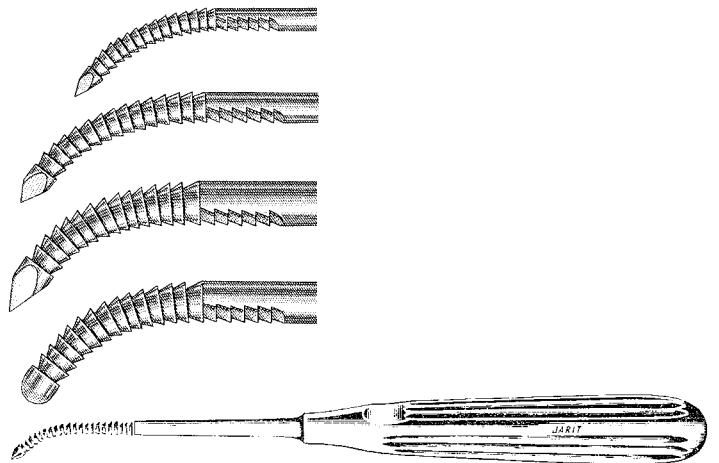


400-232 WELLAMINSKI Antrum Perforator,
6½" (16.5cm), 9mm angled tip



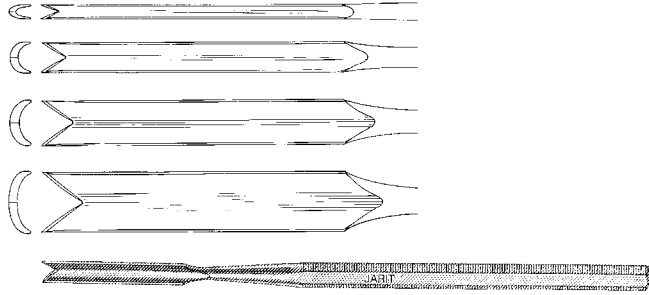
WIENER Antrum Rasps,
7½" (19cm)

- 400-234** Small: trocar tip, 3mm
- 400-235** Medium: trocar tip, 4mm
- 400-236** Large: trocar tip, 5mm
- 400-237** Large: blunt tip, 5mm



BALLENGER V-Shaped Chisels,
6¼" (15.9cm)

- 400-240 2mm wide
- 400-241 4mm wide
- 400-242 6mm wide
- 400-243 8mm wide



- 400-245 **WEST** Lacrimal Sac Chisel,
7½" (19.1cm), 6mm wide



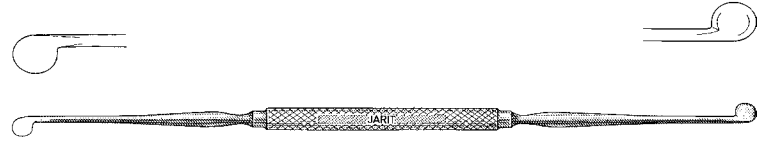
- 400-247 **WEST** Lacrimal Sac Gouge,
7½" (19.1cm), 6mm wide



- 400-250 **FREER** Septum Knife,
7¼" (18.4cm), 5mm angled blade



400-253 **PIERCE** Elevator,
8½" (21.6cm), double-ended,
5mm x 7mm blades



400-255 **FREER** Septum Knife,
6½" (16.5cm), 4mm x 8mm "D" shaped knife



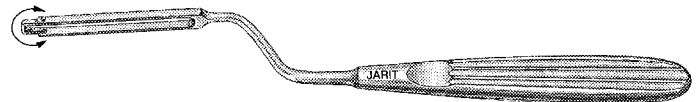
FREER Chisels,
6½" (16.5cm), 4mm wide
400-257 Straight
400-258 Curved



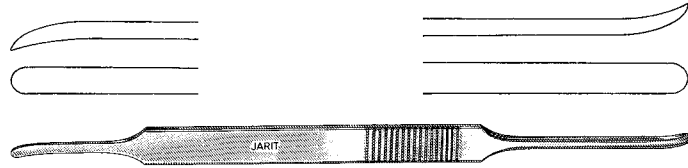
BALLENGER Swivel Knives,
8" (21.3cm), straight
400-260 3mm
400-261 4mm
400-262 5mm



BALLENGER Swivel Knives,
8" (20.3cm), bayonet
400-263 3mm
400-264 4mm
400-265 5mm

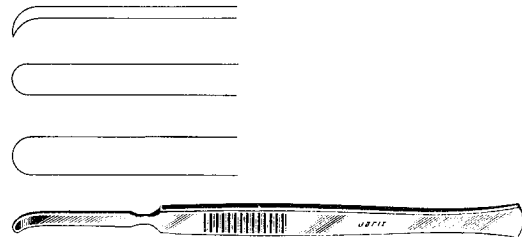


400-269 **COTTLE-McKENTY** Elevator,
8½" (21.6cm), double-ended,
3mm and 4mm wide blades

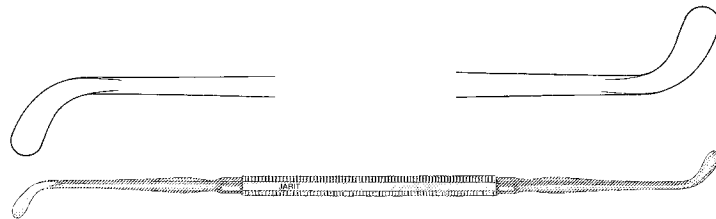


McKENTY Septal Elevators,
5¾" (14.6cm)

400-270 4mm wide blade
400-271 5mm wide blade



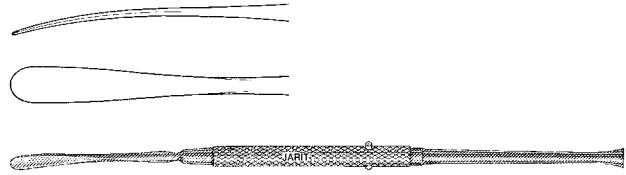
400-272 **PENNINGTON** Septal Elevator,
8½" (21.6cm), double-ended,
4mm and 4.5mm wide blades



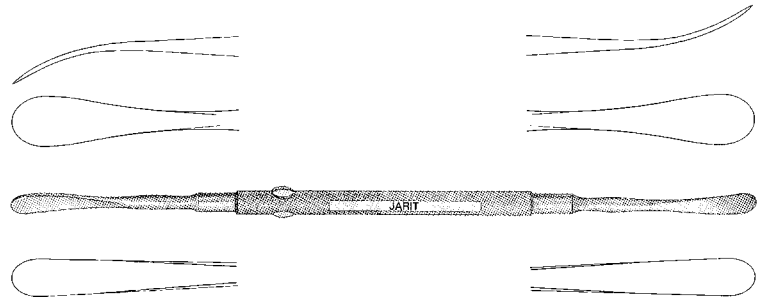
400-273 **JARIT** Ball End Elevator (Ostium Seeker),
7½" (19cm), double-ended,
2.0mm and 2.5mm diameter ball tips



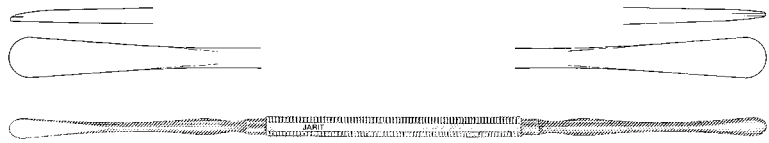
400-274 **FREER** Septum Elevator,
7½" (19cm), single-ended,
5mm wide blade



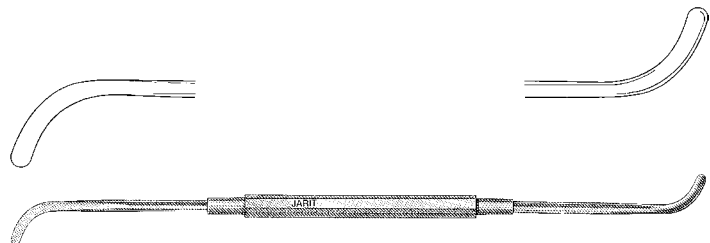
FREER Septum Elevators,
7¾" (19.7cm) double-ended,
sharp-blunt blades
285-379 6.5mm wide blades
285-380 4.5mm wide blades

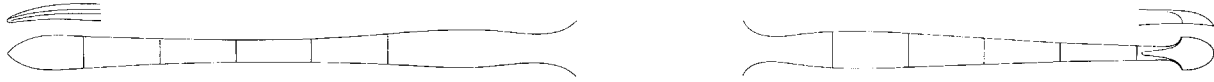


400-275 **BALLENGER** Septum Elevator,
8¾" (22.2cm), double-ended,
semi-sharp and blunt blades, 5mm wide



400-276 **ROGER** Elevator,
8¾" (21cm), double-ended,
3mm wide blades





400-277 COTTLE Septum Elevator,
9" (22.9cm), double-ended, graduated,
4mm wide blade and 4mm wide round end



400-278 COTTLE Elevator,
8½" (21.6cm), double-ended,
for tunneling, 4.5mm wide blades



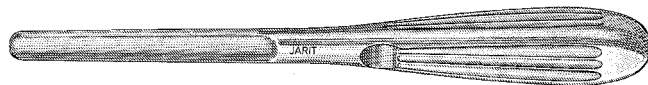
JARIT Periosteal Elevators,
6¼" (15.9cm), 5mm wide blade

285-345 Blunt

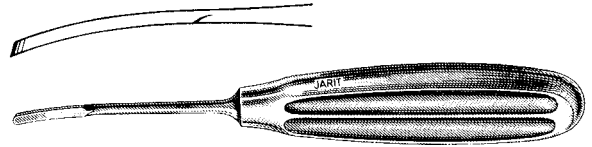
285-346 Semi-sharp



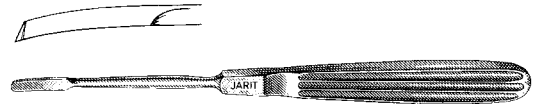
400-279 BOIES Nasal Fracture Elevator,
7½" (19cm), 9mm wide blade



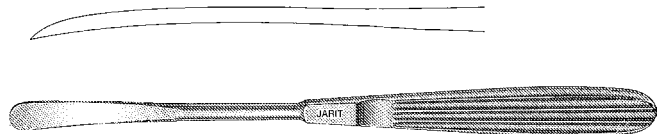
400-280 CONVERSE Periosteal Elevator,
7" (17.8cm), 5mm wide blade



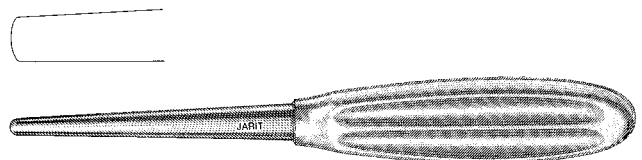
400-281 JOSEPH Periosteal Elevator,
6½" (16.5cm), 4.5mm wide blade



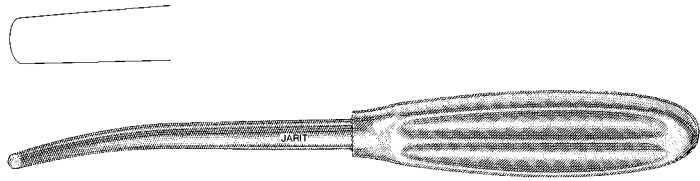
400-282 COTTLE Skin Elevator,
7½" (19cm), 10mm wide blade



400-285 GOLDMAN Displacer Septum Elevator,
7¼" (18.4cm), 6mm wide blade



400-286 **DINGMAN** Zygoma Elevator,
8 $\frac{3}{4}$ " (22.2cm), 5.5mm wide,
curved rounded blade

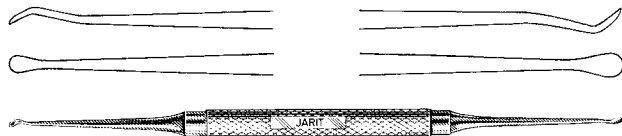


HALLE Elevators,
7" (17.8cm)

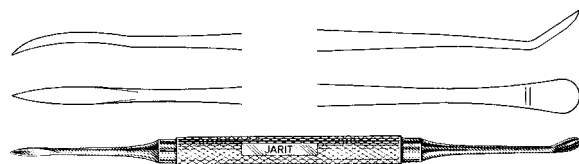
400-287 3mm blade
400-288 5mm blade



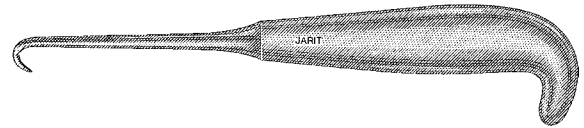
400-290 **KLEINERT-KUTZ** Elevator and Dissector,
7 $\frac{3}{4}$ " (19.7cm), double-ended,
2mm and 3mm wide round blades



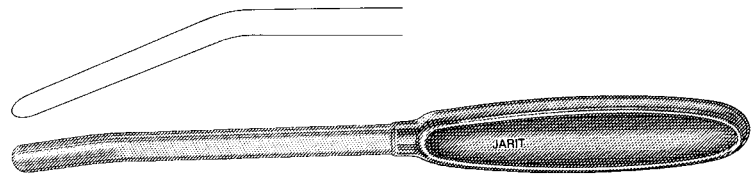
400-292 **KLEINERT-KUTZ** Elevator and Dissector,
7" (17.8cm), double-ended,
2mm wide long blade and 4mm wide round blade



400-293 GILLIES Bone and Zygoma Hook,
7" (17.8cm), 9mm hook



400-294 GILLIES Zygoma Elevator,
8 1/4" (22.2cm), 9mm wide blade



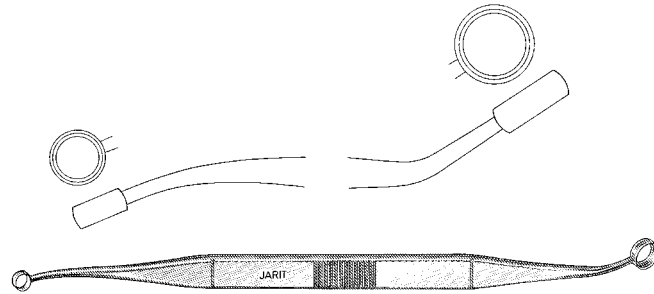
400-296 DUNNING Elevator and Curette,
7 1/2" (20cm), double-ended,
3mm wide blade and 3mm x 5mm curette



400-297 GORNEY Septum Suction Elevator,
7 1/2" (19cm), 3mm wide tip



400-298 FAULKNER Antrum Curette,
9 1/2" (23.2cm), double-ended,
6mm and 9mm rings,
with cutting edges on both sides

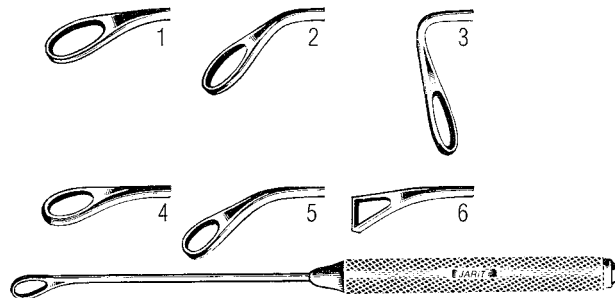


400-299 PRATT Ethmoid Curette,
9" (23cm), double-ended,
5mm solid cup straight shaft,
5mm fenestrated cup angled shaft



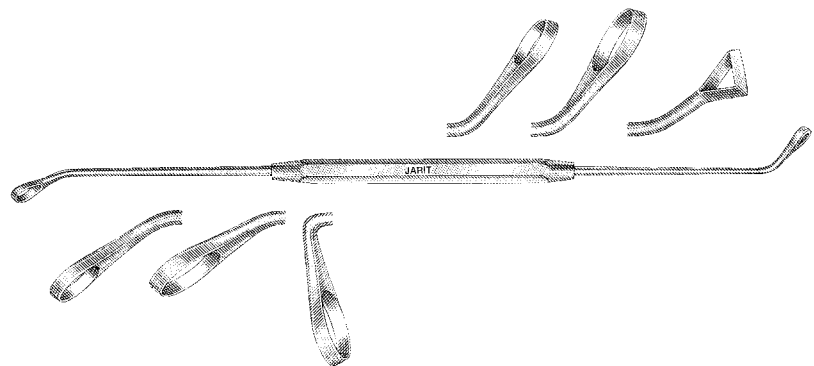
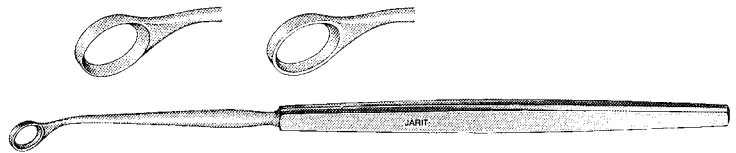
COAKLEY Antrum Currettes,
8" (20.3cm), single-ended

- 400-300** Set of 6
- 400-301** No.1: 30° angle, 7.5mm x 9.5mm oval tip
- 400-302** No.2: 60° angle, 7.5mm x 9.5mm oval tip
- 400-303** No.3: 100° angle, 7.5mm x 9.5mm oval tip
- 400-304** No.4: 30° angle, 6mm x 7.5mm oval tip
- 400-305** No.5: 60° angle, 6mm x 7.5mm oval tip
- 400-306** No.6: 30° angle, 6mm x 6mm triangular tip



COAKLEY Sinus Currettes,
7½" (19cm), 7mm x 10mm tip

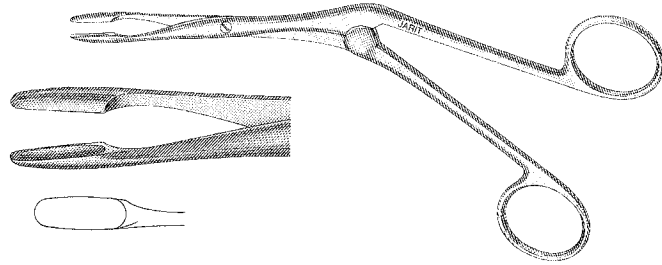
- 400-307** Backward cutting
- 400-308** Forward cutting



COAKLEY Sinus Currettes,
9½" (24.1cm), double-ended

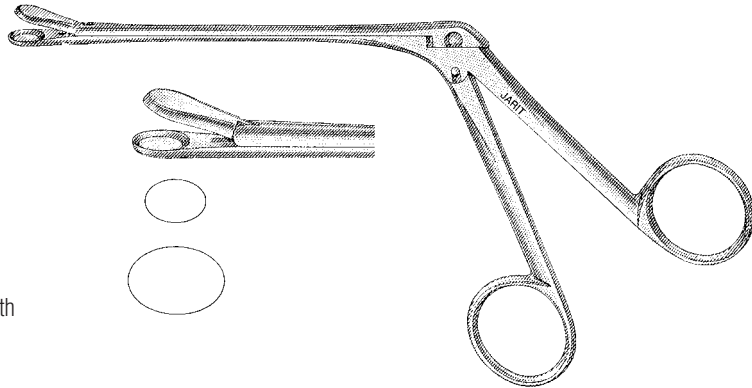
- 400-320** One slightly angled oval tip and one 45° angled oval tip, 5.8mm x 6.9mm
- 400-321** One slightly angled oval tip and one 45° angled oval tip, 7.7mm x 9.7mm
- 400-322** One 90° angled oval tip and one slightly angled triangular tip, 7.7mm x 9.7mm

405-100 **KNIGHT** Polypus and Turbinate Forceps,
3¼" (9.5cm) shaft, 6¾" (17.1cm) overall length,
4mm x 14mm cup jaws

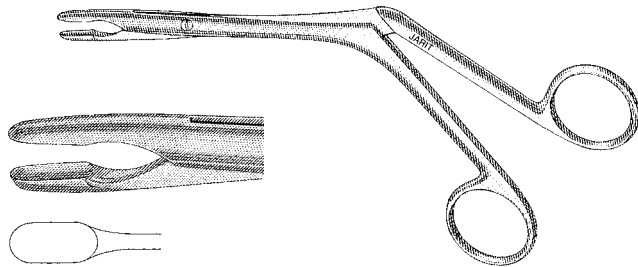


WATSON-WILLIAMS Polypus Forceps,
4" (10.1cm) shaft, 7½" (18.1cm) overall length

405-105 No.1: 6mm x 8mm cup jaws
405-106 No.2: 9mm x 13mm cup jaws

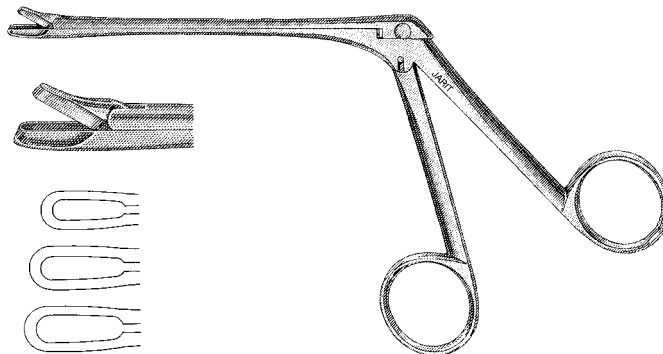


405-108 **KNIGHT** Polypus and Turbinate Forceps,
4¼" (10.8cm) shaft, 7½" (19cm) overall length,
5mm x 12mm cup jaws



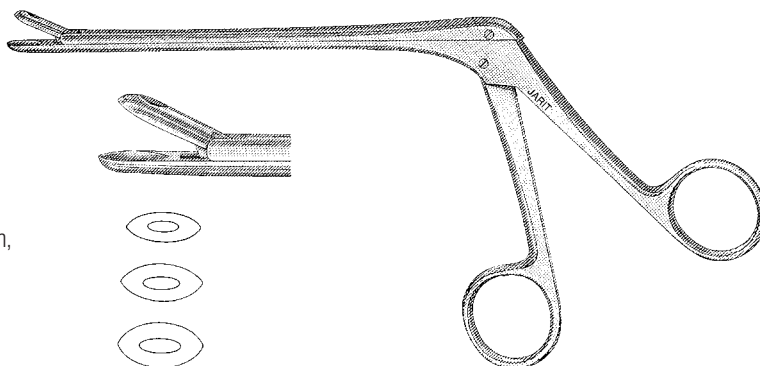
GRUENWALD Nasal Forceps,
4" (10.1cm) shaft, 7½" (19cm) overall length,
thru-cutting jaws

- 405-110** No.1: 2.5mm x 9mm
- 405-111** No.2: 3mm x 10mm
- 405-112** No.3: 3.5mm x 11mm

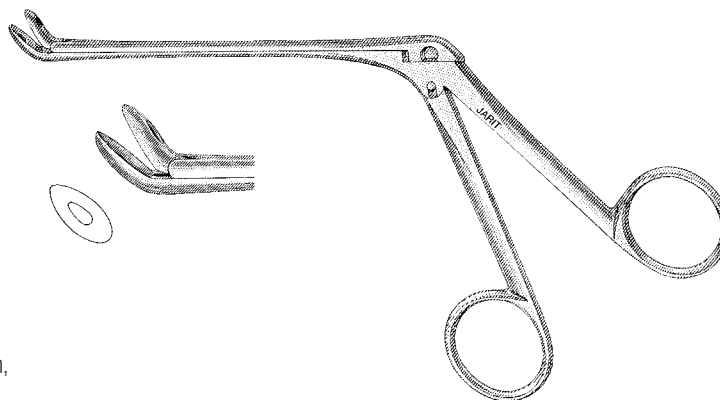


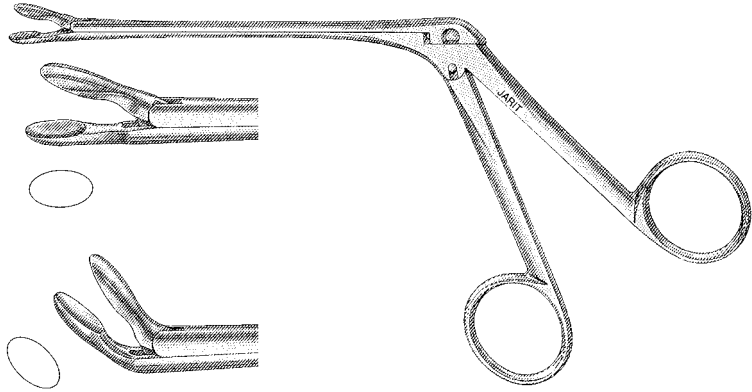
WILDE Nasal Forceps,
5½" (14cm) shaft, 7½" (19cm) overall length,
straight, fenestrated

- 280-450** No.1: 4mm x 11mm cup jaws
- 280-451** No.2: 5mm x 12mm cup jaws
- 280-452** No.3: 6mm x 13mm cup jaws



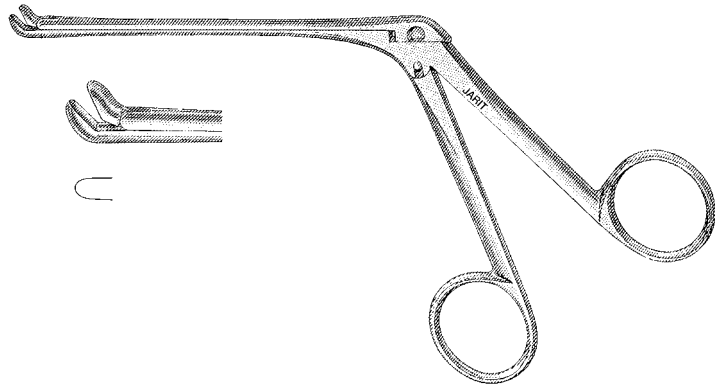
280-454 **WILDE** Nasal Forceps,
4½" (11.4cm) shaft, 6¾" (17.5cm) overall length,
up-angled, fenestrated, 5mm x 10mm cup jaws



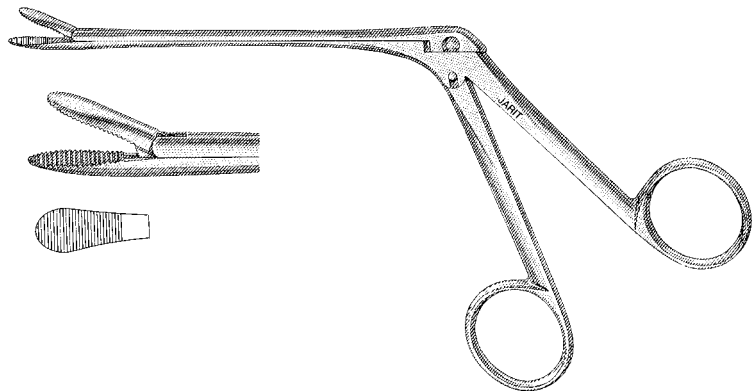


WEIL Nasal Forceps,
4" (10.1cm) shaft, 7½" (19cm) overall length,
5mm x 8mm cup jaws

- 405-115 Straight
- 405-116 Up-angled

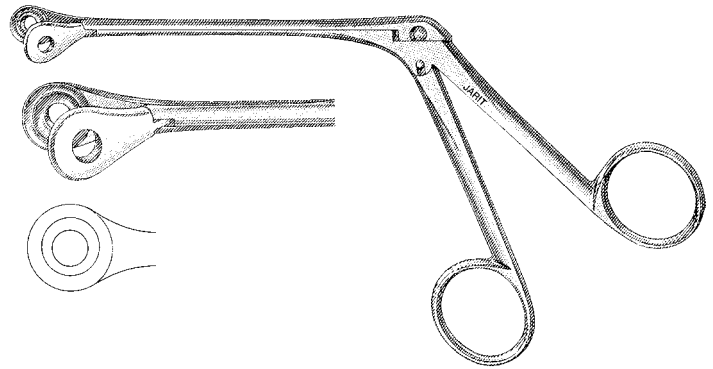


405-118 STRUEMPEL-VOSS Nasal Forceps,
4" (10.1cm) shaft, 7½" (19cm) overall length,
up-angled, 3mm x 5mm cup jaws

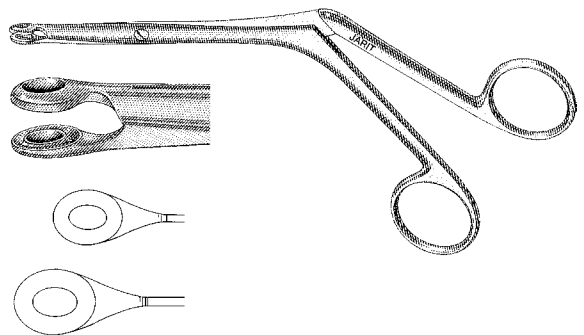


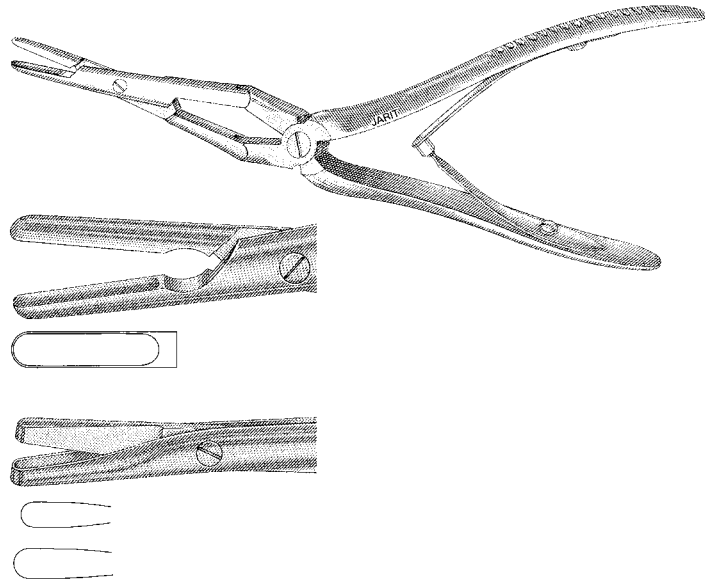
405-120 BLAKESLEY Septum Forceps,
4" (10.1cm) shaft, 7½" (19cm) overall length,
6mm x 12mm serrated jaws

405-122 LEWIS Septum Forceps,
4" (10.1cm) shaft, 7½" (19cm) overall length,
11mm round grooved jaws, left side opening



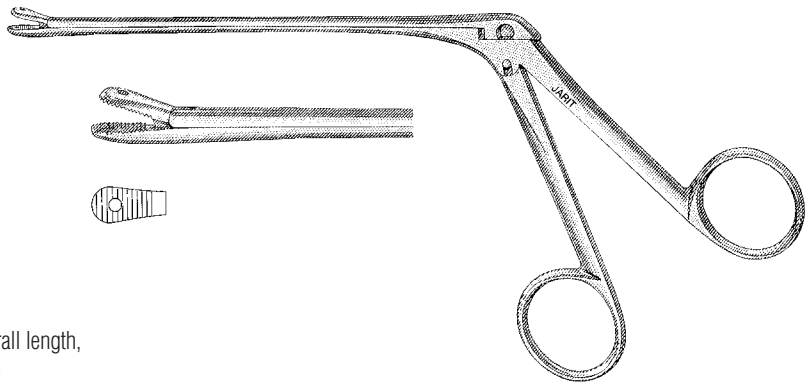
BRUENING Septum Forceps,
4¼" (10.8cm) shaft, 7¾" (18.7cm) overall length
405-130 No.1: 7mm x 9mm jaws
405-131 No.2: 9mm x 11mm jaws



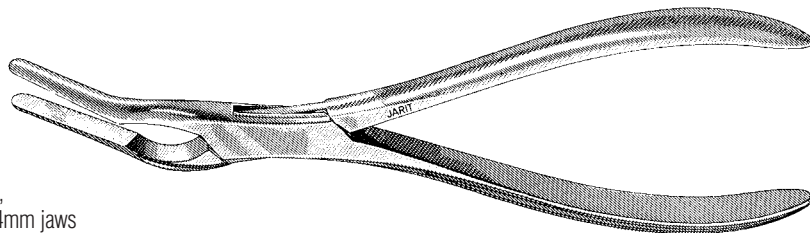


JANSEN-MIDDLETON Septum Forceps,
7 $\frac{3}{4}$ " (19.7cm)

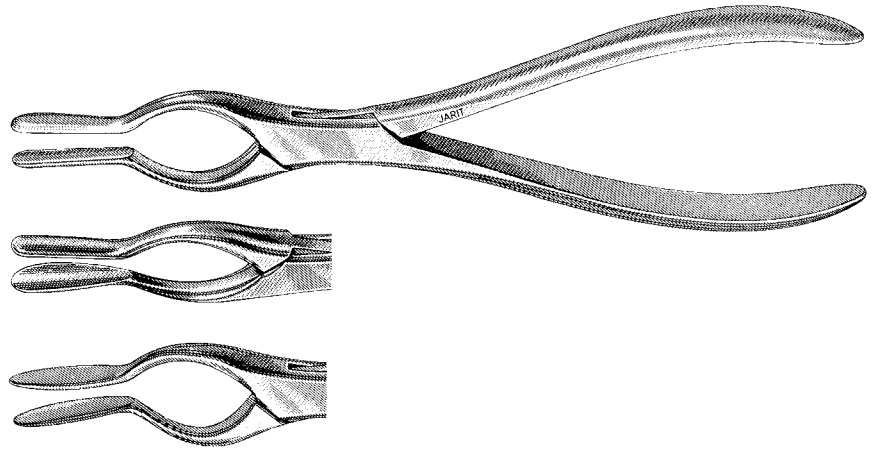
- 405-150** Cup jaws, 4mm x 18mm
- 405-152** Thru-cutting jaws, 3mm x 12mm
- 405-153** Thru-cutting jaws, 4mm x 13mm



405-155 FERRIS-SMITH Fragment Forceps,
4 $\frac{1}{2}$ " (11.4cm) shaft, 7 $\frac{3}{4}$ " (19.7cm) overall length,
serrated, fenestrated jaws 6mm x 8mm

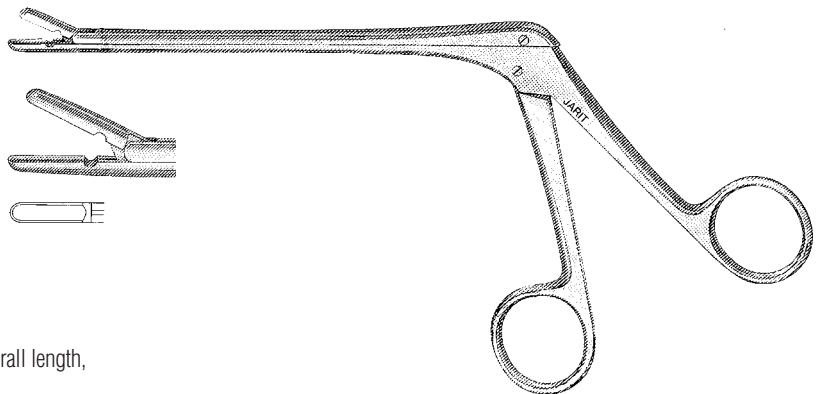


405-180 ASCH Septum Straightening Forceps,
9" (22.9cm), angled on flat, 7mm x 44mm jaws



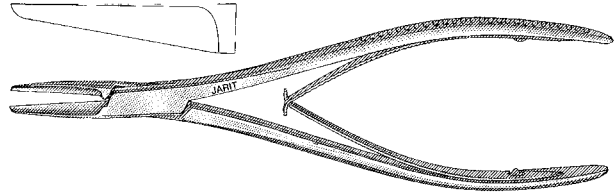
WALSHAM Septum Straightening Forceps,
9" (22.9cm)

- 405-181** Straight: 7mm x 33mm jaws
- 405-182** Right: 7mm x 33mm jaw with flat inner surface
and 9.5mm x 33mm jaw with concave inner surface
- 405-183** Left: 7mm x 33mm jaw with flat inner surface
and 9.5mm x 33mm jaw with concave inner surface
- 405-184** Universal: bayonet shape, 10.5mm x 33mm jaws

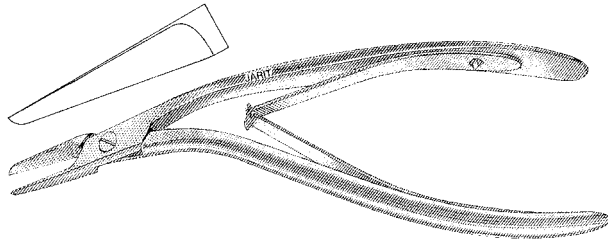


- 405-186** **TAKAHASHI** Nasal Forceps,
4 3/4" (12.1cm) shaft, 7 1/2" (18.1cm) overall length,
2.5mm x 10mm jaws

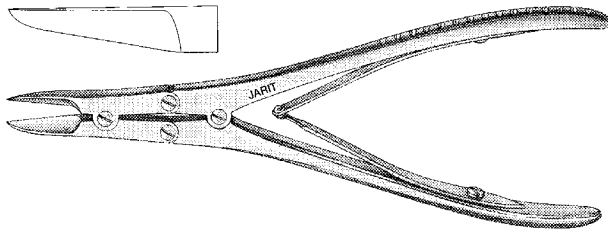
405-190 COTTLE-KAZANJIAN Nasal Cutting Forceps,
7¼" (18.4cm), straight 29mm jaws



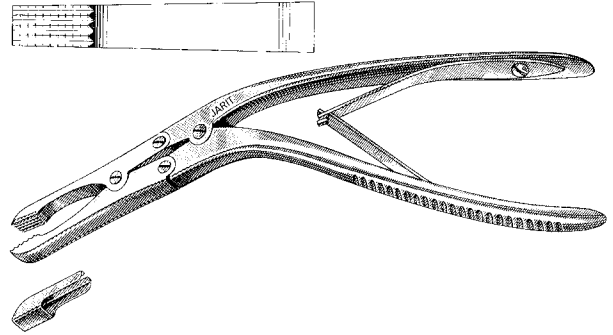
405-192 COTTLE Biting Forceps,
7½" (19cm), angular, 29mm jaws



230-310 ROWLAND (RUSKIN-LISTON) Bone Splitting Forceps,
7¼" (18.4cm), straight, 20mm jaws

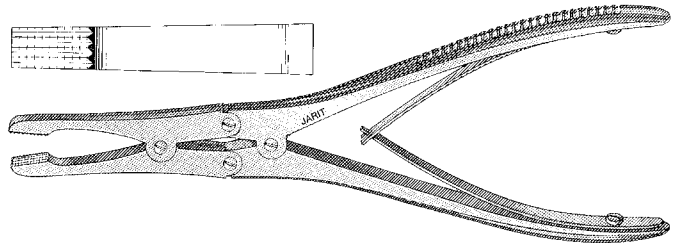


405-200 RUBIN Septum Morselizer,
7 $\frac{1}{8}$ " (18.1cm)

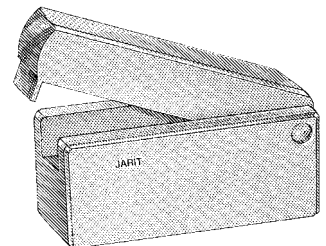


405-201 RUBIN Morselizer Guard

405-210 WRIGHT-RUBIN Septum Morselizer,
7 $\frac{1}{8}$ " (19.4cm)

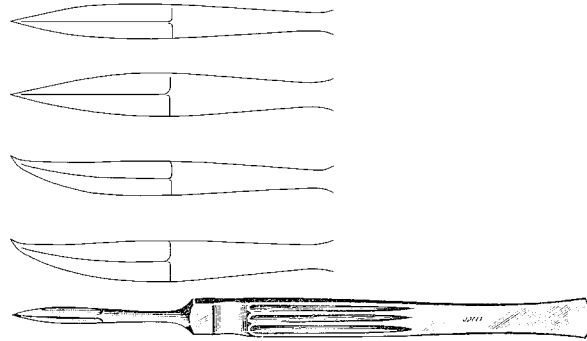


405-225 COTTLE Cartilage Crusher,
2 $\frac{3}{4}$ " (7cm)



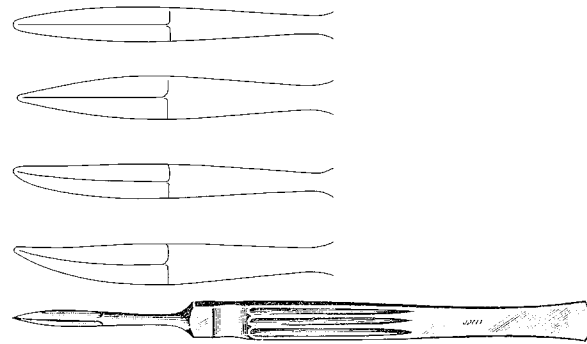
JOSEPH Nasal Knives,
6" (15.2cm), double-edged, sharp

- 410-100** Straight, 4mm x 23mm blade
- 410-101** Straight, 6mm x 23mm blade
- 410-105** Curved, 4mm x 23mm blade
- 410-106** Curved, 6mm x 23mm blade

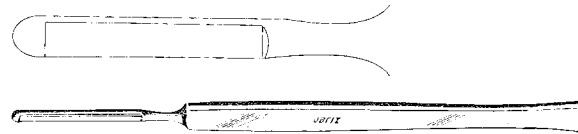


JOSEPH Nasal Knives,
6" (15.2cm), double-edged, blunt

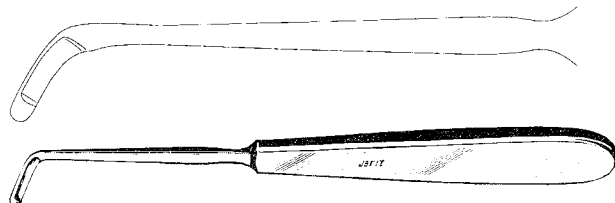
- 410-110** Straight, 4mm x 23mm blade
- 410-111** Straight, 6mm x 23mm blade
- 410-115** Curved, 4mm x 23mm blade
- 410-116** Curved, 6mm x 23mm blade



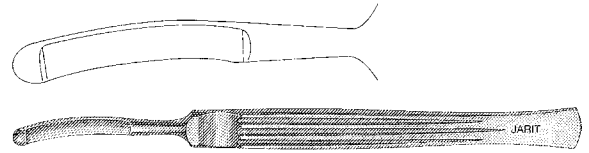
- 410-120** **JOSEPH** Button End Knife,
6" (15.2cm), straight, 29mm blade



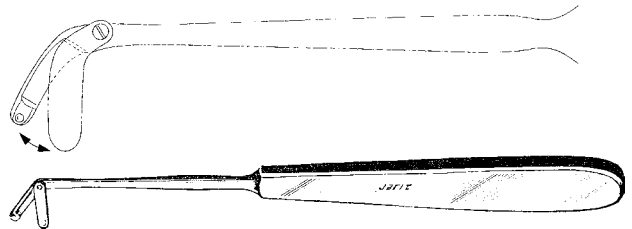
- 410-121** **JOSEPH** Button End Knife,
6 1/2" (16.5cm), angled, 9mm blade



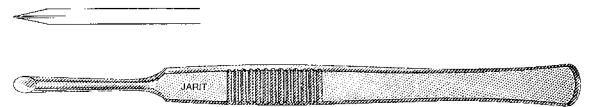
410-123 CONVERSE Button End Bistoury,
6 1/4" (15.5cm), curved, 29mm blade



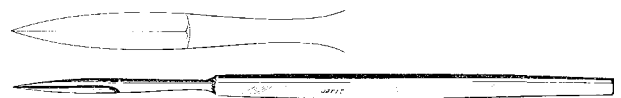
410-125 MALTZ Button End Knife,
6 1/2" (16.5cm), 9mm blade



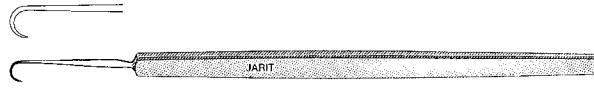
410-128 COTTLE Nasal Knife,
5 1/2" (14cm), 4mm blade



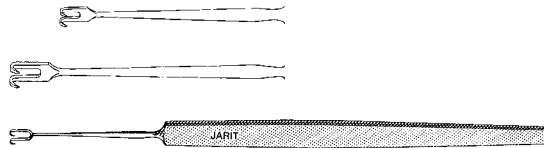
410-130 COTTLE Double Edged Knife,
5 3/4" (14.6cm), straight, 6mm x 24mm blade



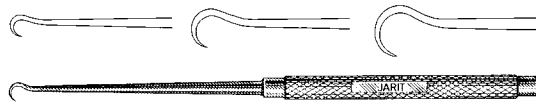
350-360 O'CONNOR Hook,
5" (12.7cm)



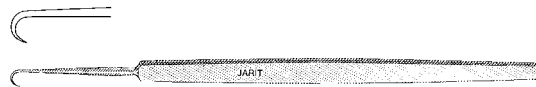
GUTHRIE Hooks,
4 3/4" (12.1cm)
350-370 Small: 1.5mm wide
350-371 Large: 2.5mm wide



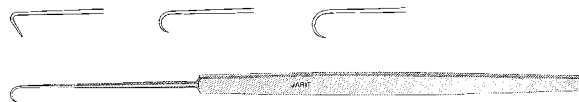
KLEINERT-KUTZ Skin Hooks,
6" (15.2cm)
410-135 Small: 3mm
410-136 Medium: 5mm
410-137 Large: 7mm



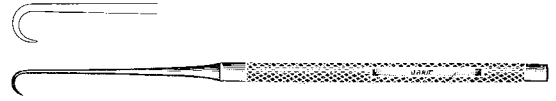
410-140 JARIT Skin Hook,
5" (12.7cm), fine



COTTLE Skin Hooks,
5 1/4" (13.3cm)
410-145 Shallow curve, small
410-146 Deep curve, small
410-147 Deep curve, large

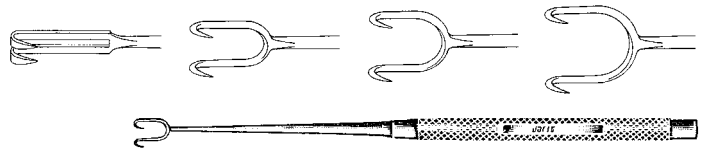


410-150 JOSEPH Skin Hook,
6¼" (15.9cm), single prong

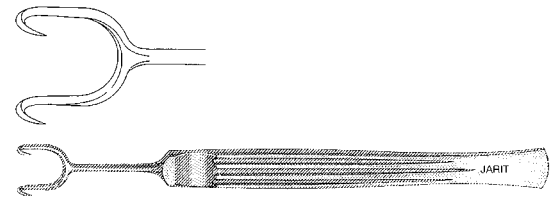


JOSEPH Skin Hooks,
6¼" (15.9cm), double prong

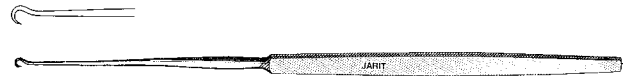
410-151 2mm wide
410-152 5mm wide
410-153 7mm wide
410-154 10mm wide



410-157 COTTLE-JOSEPH Double Hook,
5½" (13.7cm), double prong, 12mm wide



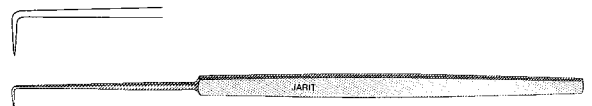
410-160 KILNER Skin Hook,
5" (12.7cm)



410-161 KILNER Skin Hook,
6" (15.2cm), detachable blade



410-163 GOLDMAN Single Hook,
5½" (13.7cm), right angled

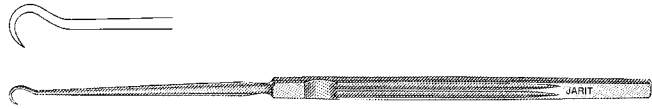


CONVERSE Skin Hooks,
7" (17.8cm)

- 410-165** Small: 2.5mm
- 410-166** Large: 4mm



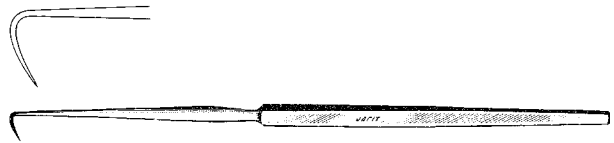
410-167 **JOHNSON** Skin Hook,
6½" (16.5cm)



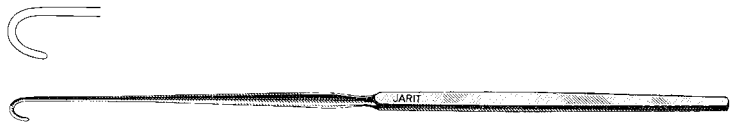
410-170 **GILLIES** Skin Hook,
7½" (19.1cm)



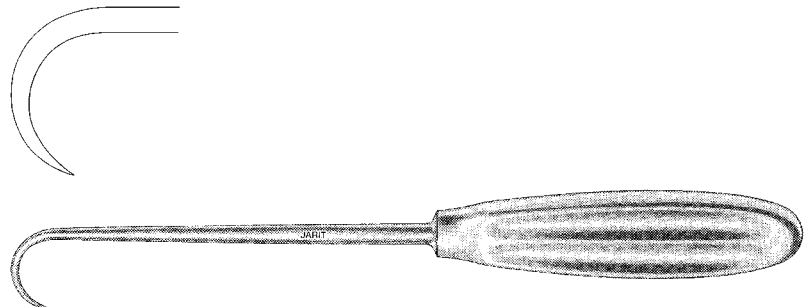
410-180 **COTTLE** Single Prong Tenaculum,
6½" (16.5cm)



410-182 **JARIT** Palate Hook,
8" (20.3cm)

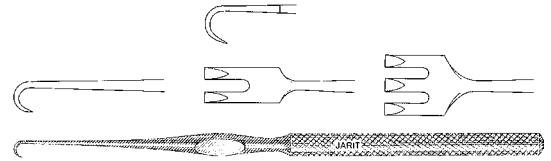


410-183 **SURACI** Zygoma Hook-Elevator,
9" (22.9cm)



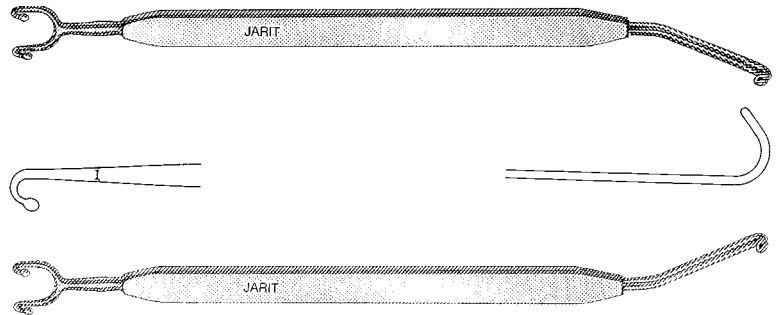
LAHEY Retractors,
4 1/4" (12.1cm), delicate

- 410-185** 1-prong
- 410-186** 2-prongs
- 410-187** 3-prongs



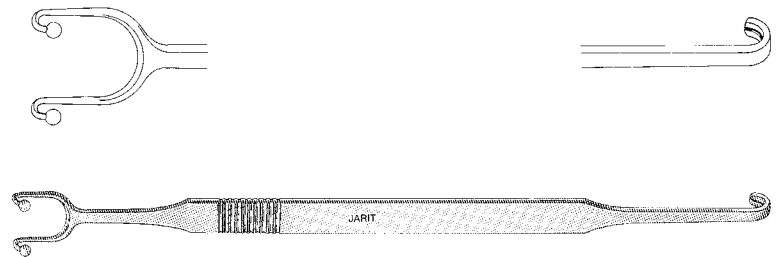
GOLDMAN Knife Guides and Retractors,
6 1/2" (17.5cm), double-ended,
3mm knife guide and 10mm retractor

- 410-193** Left angled knife guide
- 410-194** Right angled knife guide



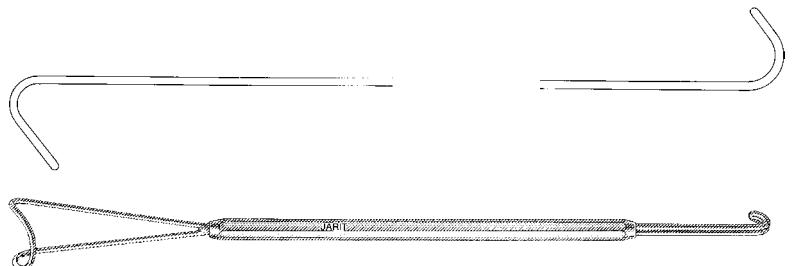
COTTLE Knife Guide and Retractor,
6 1/2" (17.5cm), double-ended,
3.5mm knife guide and 10mm retractor

- 410-195**



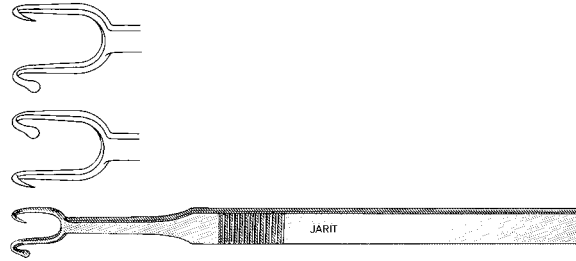
NEIVERT Knife Guide and Retractor,
6 1/2" (17.2cm), double-ended,
4mm knife guide and 15mm retractor

- 410-196**



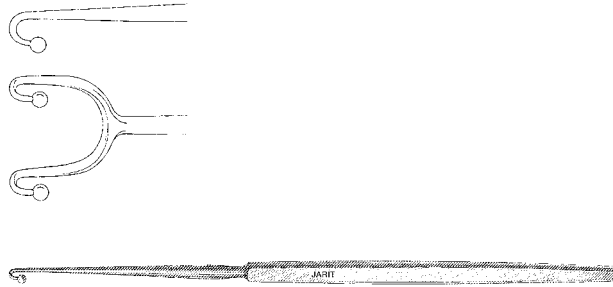
COTTLE Retractors,
5½" (14cm), 11mm wide

- 410-197 Right prong sharp
- 410-198 Left prong sharp

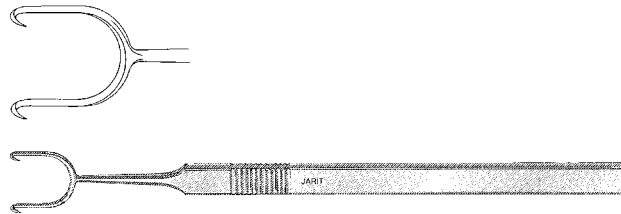


FOMON Retractors,
6¼" (15.9cm)

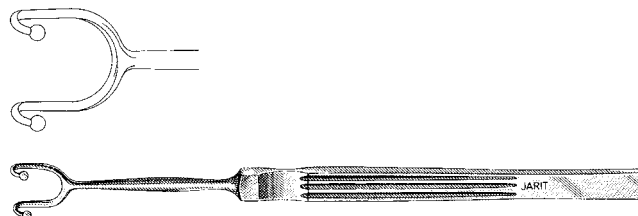
- 410-199 1-prong, ball end
- 410-200 2-prong, ball ends, 12mm wide



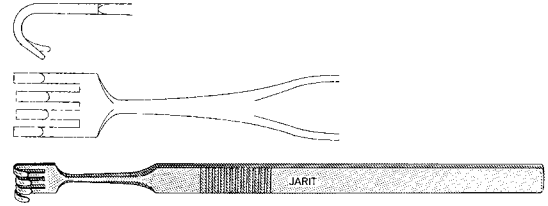
- 410-201 **COTTLE** Retractor,
5¾" (14.5cm), 2-prong, sharp,
11mm wide



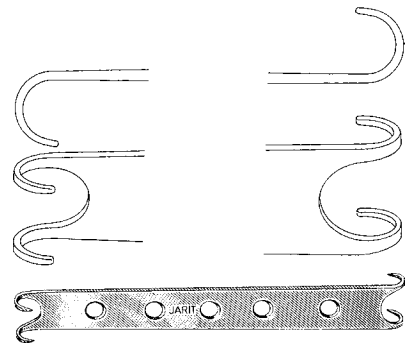
- 410-202 **COTTLE** Retractor,
6¾" (17.1cm), 2-prong, ball ends,
12mm wide



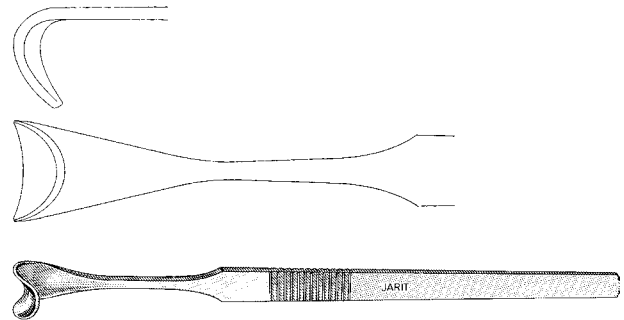
410-203 **COTTLE** Retractor,
5¼" (13.3cm), 4-prong, blunt,
10mm wide



410-205 **CONVERSE** Alar Retractor,
4½" (11.4cm), double-ended,
14mm wide

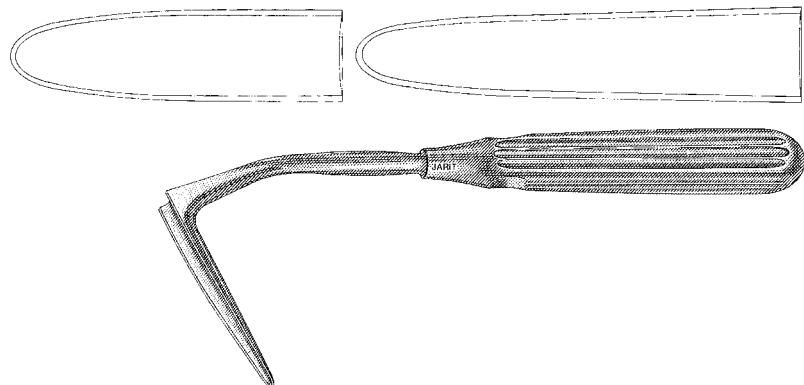


410-207 **COTTLE** Alar Retractor,
6¼" (15.9cm), 14mm wide

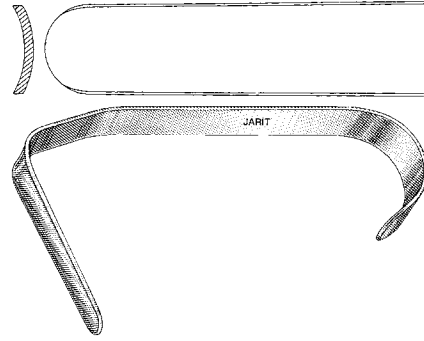


AUFRICHT Nasal Retractors,
7¼" (18.4cm)

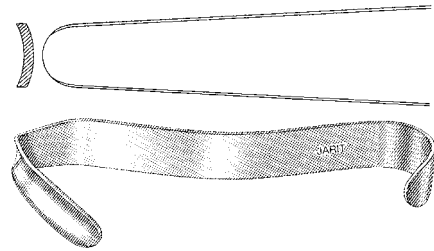
- 410-210** 10mm x 45mm blade
- 410-211** 11mm x 60mm blade



410-215 MALINIAC Nasal Retractor,
4" (10.2cm), 9mm x 45mm blade



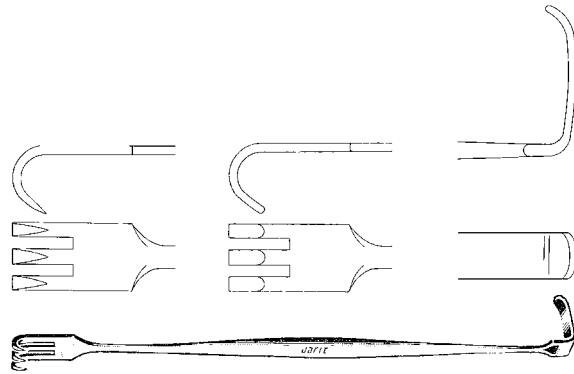
410-218 CONVERSE Nasal Retractor,
4 1/2" (11.4cm), 11mm x 44mm blade



SENN Retractors,
6 1/4" (15.9cm), double-ended, 8mm wide,
solid blade 3/8" x 1/4" (19mm x 6.3mm)

190-110 3 sharp prongs

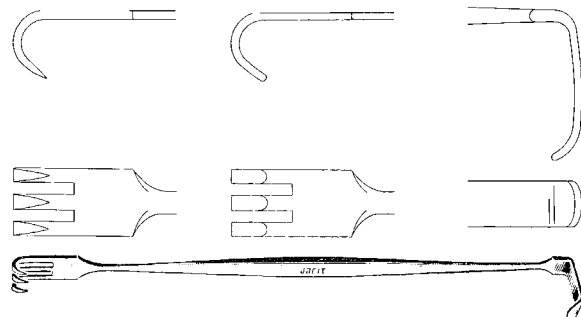
190-112 3 blunt prongs



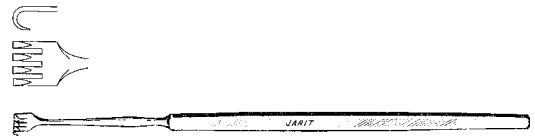
MATHIEU Retractors,
6 1/4" (15.9cm), double-ended, 8mm wide,
solid blade 3/8" x 1/4" (19mm x 6.3mm)

190-115 3 sharp prongs

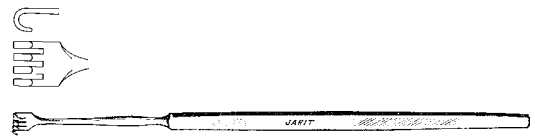
190-116 3 blunt prongs



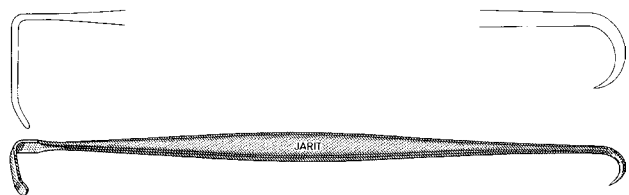
190-118 ROLLET Retractor,
5" (12.7cm), 4 sharp prongs, 6mm wide



190-120 KNAPP Retractor,
5" (12.7cm), 4 blunt prongs, 6mm wide

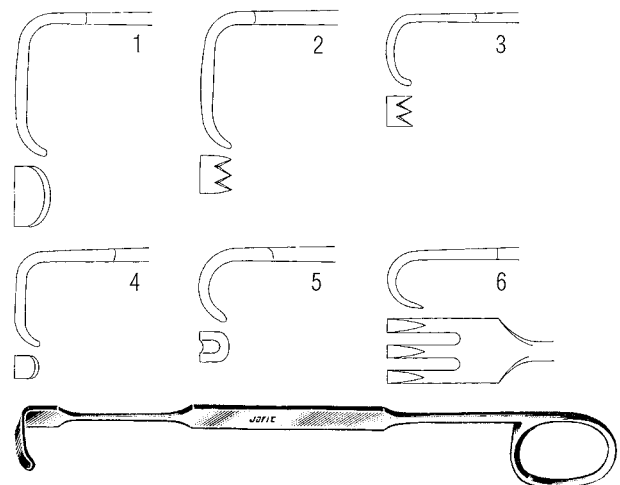


190-129 MEYERDING Skin Hook and Retractor,
6 1/4" (15.9cm), solid blade 5/8" x 5/16" wide (16mm x 5mm)



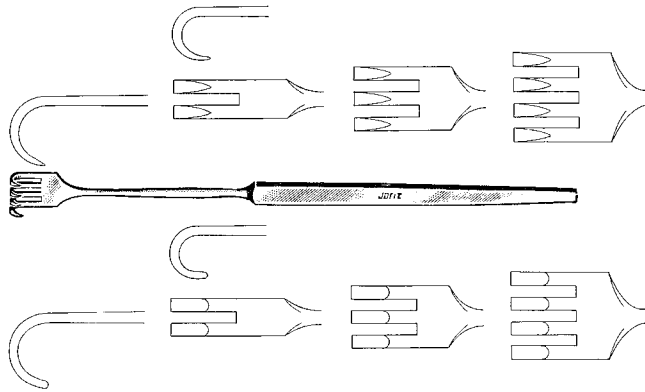
MEYERDING Finger Retractors,
7" (17.8cm)

- 190-130** Style 1, 13/16" x 5/32" wide (21mm x 7.1mm)
- 190-131** Style 2, 5/8" x 3/16" wide (16mm x 5mm)
- 190-132** Style 3, 1/4" x 5/32" wide (6.3mm x 4mm)
- 190-133** Style 4, 3/8" x 1/8" wide (10mm x 3.2mm)
- 190-134** Style 5, 5/16" x 5/32" wide (8mm x 4mm)
- 190-135** Style 6, 1/4" x 3/16" wide (6.3mm x 8mm)

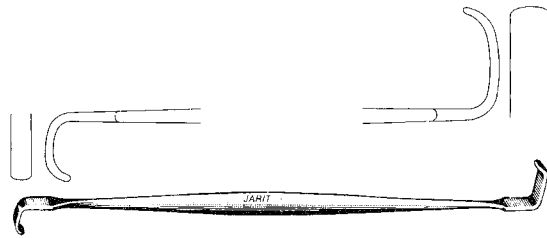


FINGER Rake Retractors,
6½" (16.5cm)

- 190-150** 1 prong, sharp
- 190-151** 2 prongs, sharp, 5mm wide
- 190-152** 3 prongs, sharp, 8mm wide
- 190-153** 4 prongs, sharp, 12mm wide
- 190-154** 1 prong, blunt
- 190-155** 2 prongs, blunt, 5mm wide
- 190-156** 3 prongs, blunt, 8mm wide
- 190-157** 4 prongs, blunt, 12mm wide

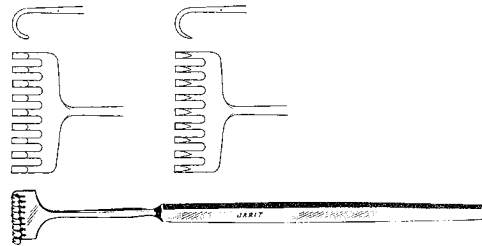


- 410-220** **RAGNELL Retractor,**
6" (15.2cm), double-ended,
2.5mm x 9mm and 5mm x 15mm blades

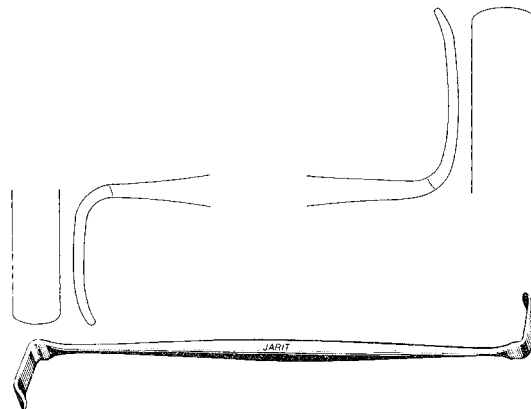


MILLER Retractors,
5¼" (13.3cm), 9 prongs, 15mm wide

- 410-225** Blunt
- 410-226** Sharp

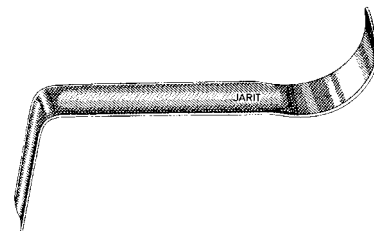


- 410-230** **DAVIS Retractor,**
5½" (14cm), double-ended,
5mm x 16mm and 8mm x 21mm blades

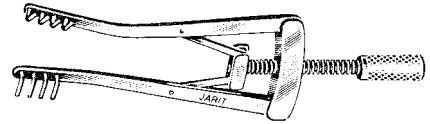


CONVERSE Blade Retractors,
3¼" (8.3cm)

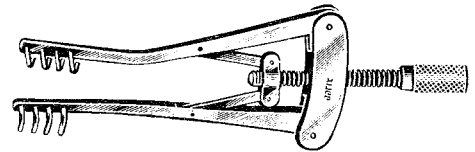
- 410-235** Size 1: 9mm x 18mm blade
- 410-236** Size 2: 13mm x 28mm blade
- 410-237** Size 3: 13mm x 41mm blade
- 410-238** Size 4: 13mm x 55mm blade



205-100 ALM Retractor,
2¾" (7cm), 2" (5cm) spread

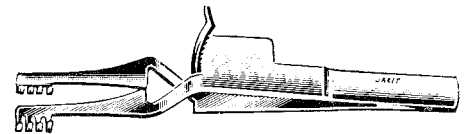


205-105 ALM Retractor,
4" (10.2cm), 2½" (6.4cm) spread



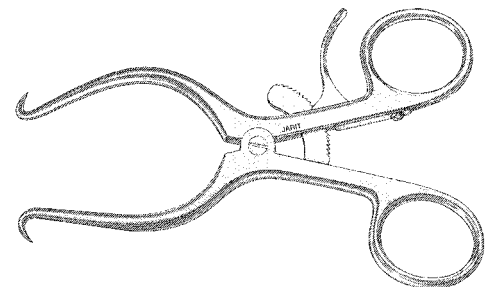
JARIT Cross Action Retractors,
4" (10.2cm), 1" (2.5cm) spread

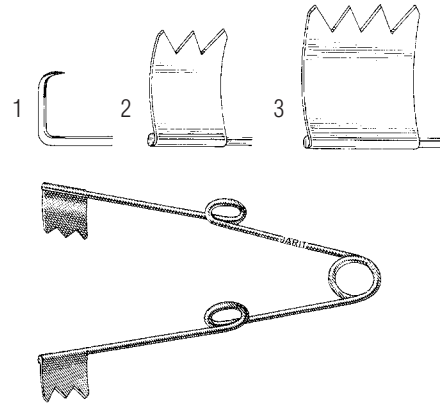
205-110 Sharp prongs
205-111 Blunt prongs



GELPI Retractors,
pediatric sizes

205-123 3½" (8.9cm)
205-124 4½" (11.4cm)
205-125 5½" (14cm)



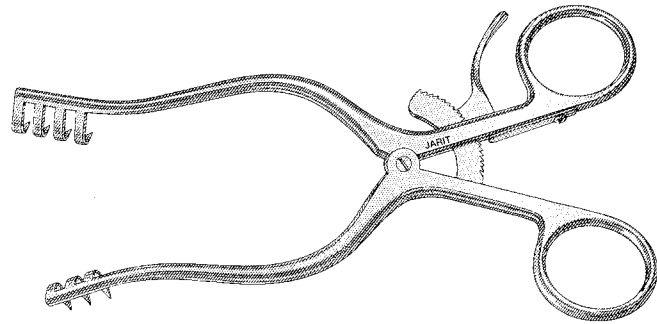


JARIT Spring Wire Retractors

- 205-136 Style 1: 3" (7.5cm)
- 205-137 Style 2: 3½" (9cm)
- 205-138 Style 3: 4½" (11.4cm)

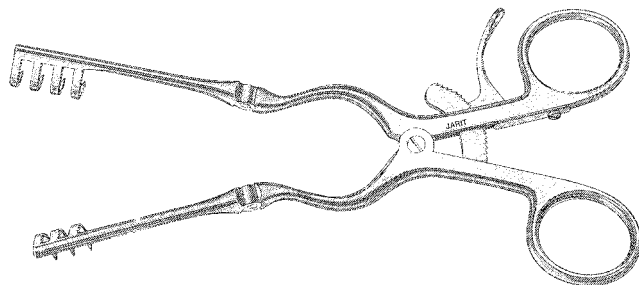
WEITLANER Retractors

- 205-140 4½" (11.4cm), 2 x 3 sharp prongs, 15mm deep
- 205-141 4½" (11.4cm), 2 x 3 blunt prongs, 15mm deep
- 205-150 5½" (14cm), 3 x 4 sharp prongs, 17mm deep
- 205-151 5½" (14cm), 3 x 4 blunt prongs, 17mm deep
- 205-155 6½" (16.5cm), 3 x 4 sharp prongs, 18mm deep
- 205-156 6½" (16.5cm), 3 x 4 blunt prongs, 18mm deep



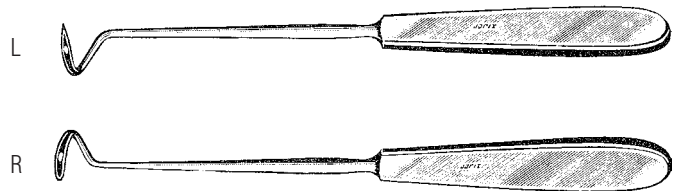
WEITLANER Retractors,
hinged blades

- 205-175 5½" (14cm), 3 x 4 sharp prongs, 18mm deep
- 205-176 5½" (14cm), 3 x 4 blunt prongs, 18mm deep
- 205-180 6¼" (15.9cm), 3 x 4 sharp prongs, 18mm deep
- 205-181 6¼" (15.9cm), 3 x 4 blunt prongs, 18mm deep

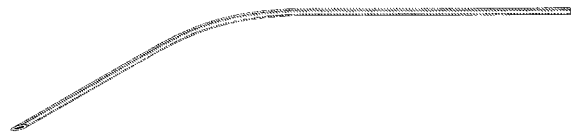


DESCHAMPS Ligature Carriers

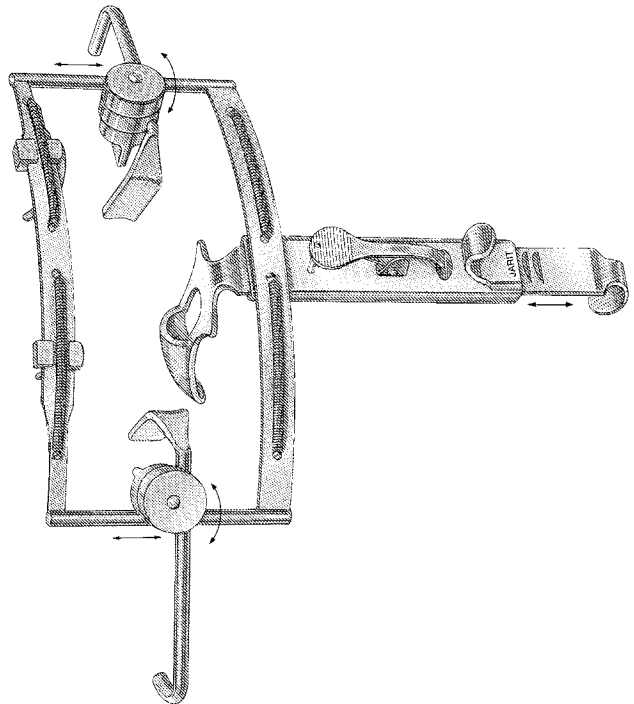
- 125-150** 8" (20.3cm), sharp, left
- 125-152** 8" (20.3cm), sharp, right
- 125-154** 8" (20.3cm), blunt, left
- 125-155** 8" (20.3cm), blunt, right



- 410-265** **DINGMAN** Wire Passer, 6 3/4" (17cm), curved



- 450-090** **DINGMAN** Mouth Gag, complete with 3 tongue blades

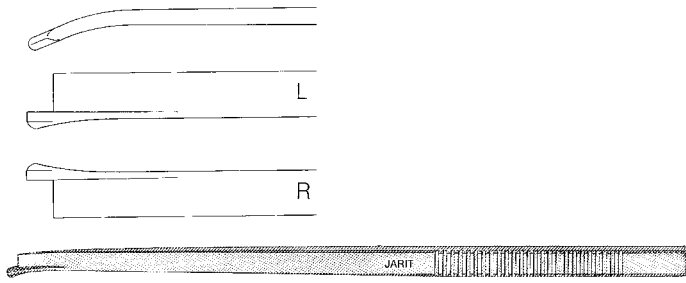




CHISELS AND OSTEOTOMES

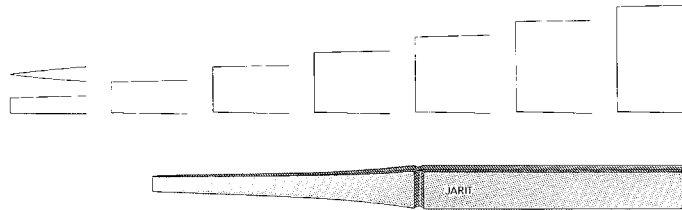
ANDERSON-NEIVERT Osteotomes,
with guard, 8" (20.3cm), 4mm wide

- 410-275** Curved left
- 410-276** Curved right



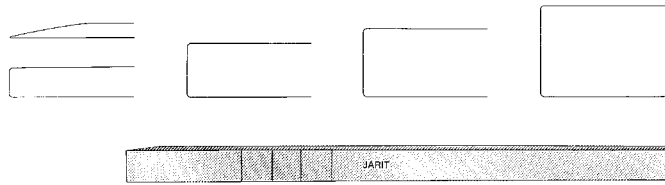
CONVERSE Osteotomes,
7" (17.8cm)

- 410-280** 2mm wide
- 410-281** 4mm wide
- 410-282** 6mm wide
- 410-283** 8mm wide
- 410-284** 10mm wide
- 410-286** 12mm wide
- 410-288** 14mm wide

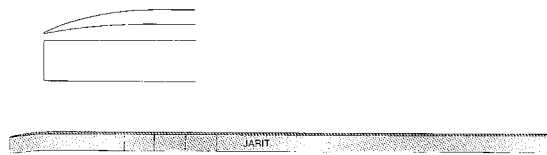


COTTLE Chisels,
7 1/4" (18.4cm),
depth markings at 2, 3, 4 and 5 centimeters

- 410-290** 4mm wide
- 410-291** 7mm wide
- 410-292** 9mm wide
- 410-293** 12mm wide



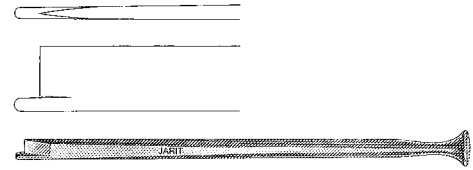
- 410-295** **COTTLE** Chisel,
7 1/4" (18.4cm), curved, 6mm wide,
depth markings at 3.5, 4.5, 5.5 and 6.5 centimeters





CHISELS AND OSTEOTOMES

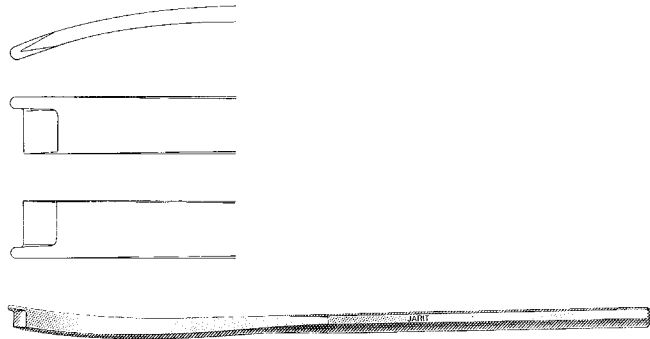
410-296 FOMON Chisel,
with guard, 6" (15.2cm),
straight, 7mm wide



CONVERSE Chisels,
with guard, 7½" (19cm),
6mm wide

410-297 Curved right

410-298 Curved left

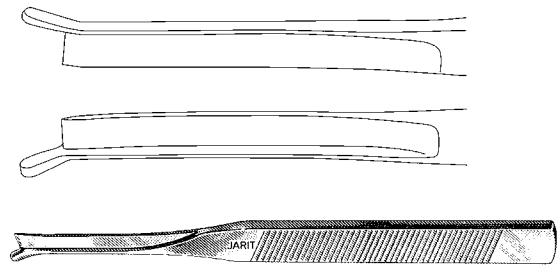


SILVER Osteotomes,
with guard, 7" (17.8cm),
4mm wide

410-300 Straight

410-301 Curved right

410-302 Curved left



CINELLI Osteotomes,
double-guarded, 6½" (16.5cm)

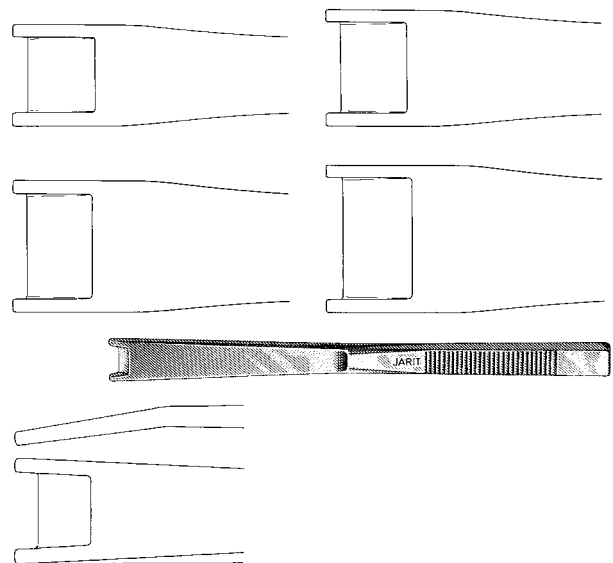
410-305 10mm wide, straight

410-306 12mm wide, straight

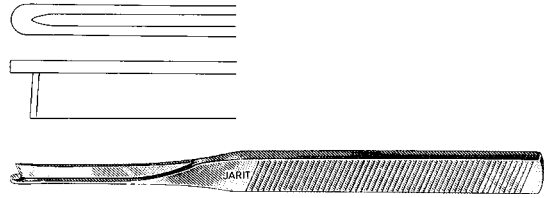
410-307 14mm wide, straight

410-308 16mm wide, straight

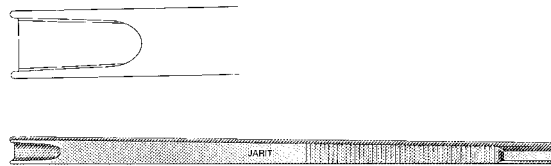
410-310 10mm wide, curved



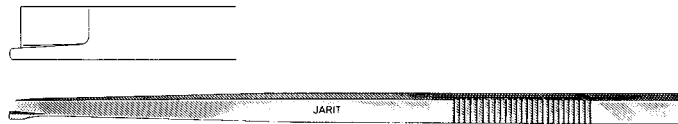
410-312 **PARKES** Osteotome,
with guard, 7" (17.8cm),
straight, 4mm wide



410-313 **PARKES** Hump Gouge,
double-guarded, 7" (17.8cm),
straight, 6mm wide

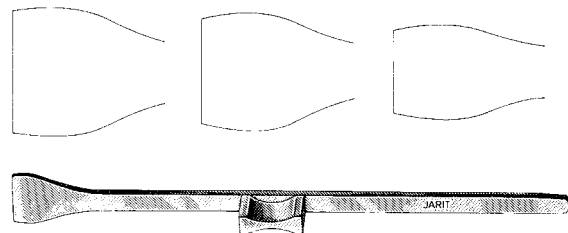


410-314 **NEIVERT** Osteotome,
with guard, 8" (20.3cm),
straight, 5mm wide



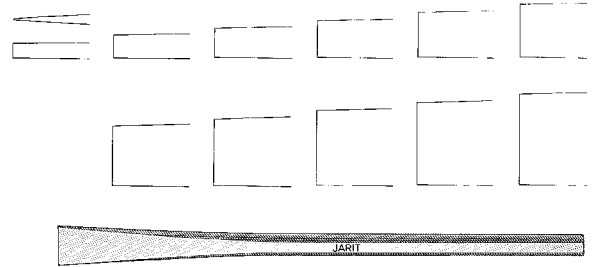
RUBIN Osteotomes,
6½" (16.5cm), with finger grip,
rounded corners

- 410-316** 16mm wide
- 410-317** 14mm wide
- 410-318** 11mm wide

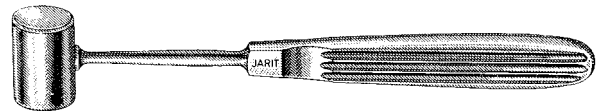


JARIT Osteotomes,
6¼" (15.9cm), hexagonal handle

- | | | | |
|----------------|----------|----------------|-----------|
| 410-319 | 2mm wide | 410-325 | 8mm wide |
| 410-320 | 3mm wide | 410-326 | 9mm wide |
| 410-321 | 4mm wide | 410-327 | 10mm wide |
| 410-322 | 5mm wide | 410-328 | 11mm wide |
| 410-323 | 6mm wide | 410-329 | 12mm wide |
| 410-324 | 7mm wide | | |

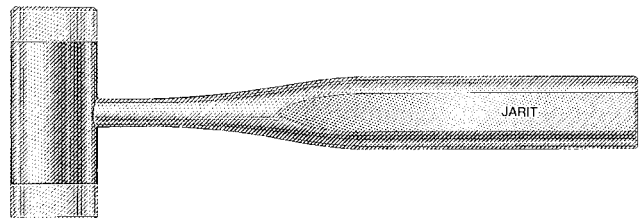


- 410-330** **JARIT** Mallet,
6¼" (17.1cm), copper,
head: weight 2.5 oz., diameter ¾" (1.9cm)



- 250-398** **JARIT** Mallet,
7¾" (18.7cm), 2 replaceable nylon caps,
anodized aluminum handle,
head: weight 4 oz., diameter 1" (2.5cm)

- 250-399** **JARIT** Mallet,
7¾" (18.7cm), 1 replaceable nylon cap and
1 stainless facing, anodized aluminum handle,
head: weight 5 oz., diameter 1" (2.5cm)



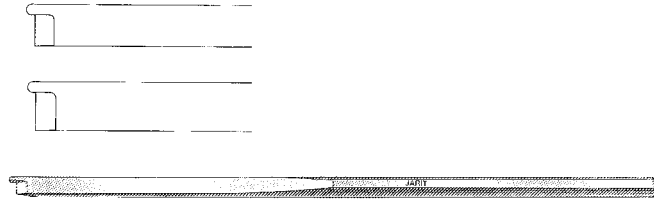
- 250-410** **NYLON** Cap for 250-398 and 250-399



OSTEOTOMES AND MALLETS

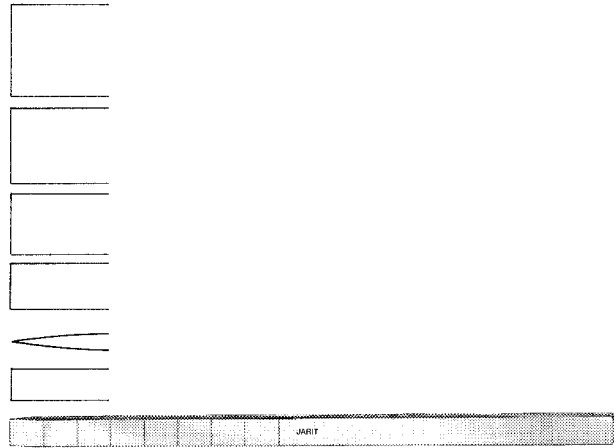
CONVERSE Osteotomes,
with guard, 7½" (19cm), straight

- 410-332 4mm wide
- 410-333 5mm wide

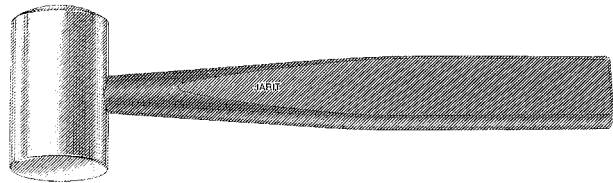


COTTLE Osteotomes,
7" (17.8cm),
with cm depth marking

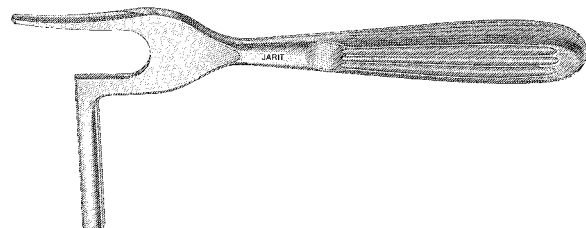
- 410-345 4mm wide
- 410-346 6mm wide
- 410-347 8mm wide
- 410-348 10mm wide
- 410-349 12mm wide



- 410-335 **COTTLE** Mallet,
7" (17.8cm), black aluminum handle,
one flat face and one round face,
head: weight 7oz., diameter 1½" (2.9cm)

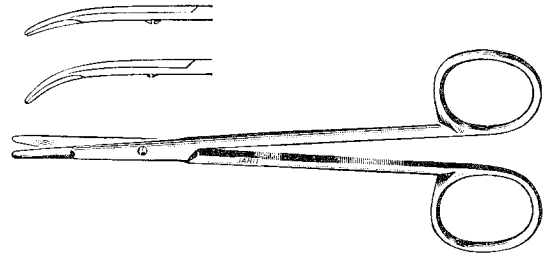


- 410-340 **QUISLING** Intranasal Hammer,
6¾" (17.2cm)

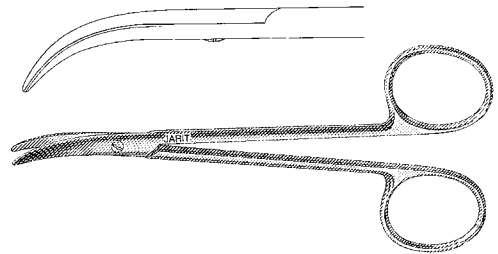


RAGNELL Undermining Scissors,
5½" (13cm)

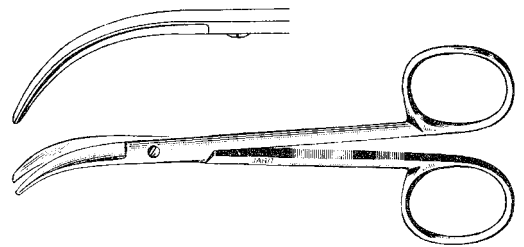
- 415-100** Straight
- 415-101** Half curve
- 415-102** Full curve



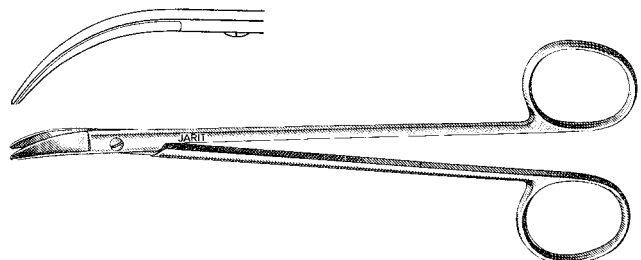
415-105 **CINELLI** Lower Lateral Scissors,
4½" (11.4cm), full curve



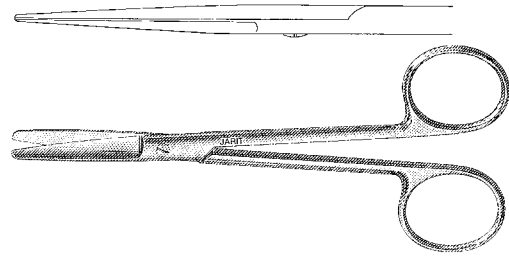
415-110 **FOMON** Lower Lateral Scissors,
5" (12.7cm), full curve



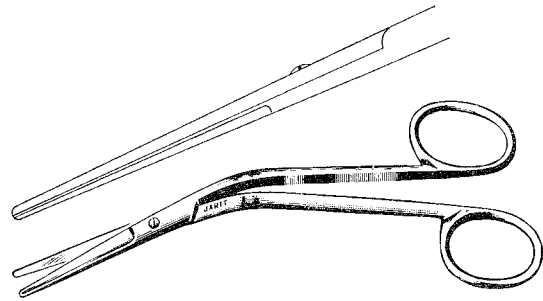
415-112 **JARIT** Lower Lateral Scissors,
6½" (16.5cm), full curve



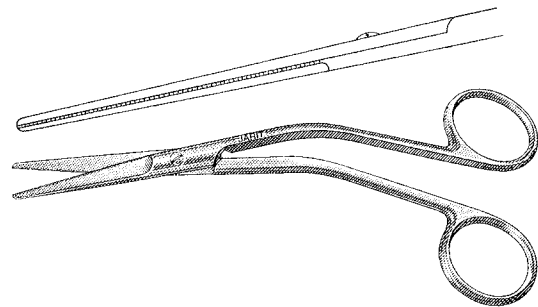
415-114 **JARIT** Dorsal Scissors,
4 $\frac{3}{4}$ " (12cm), straight



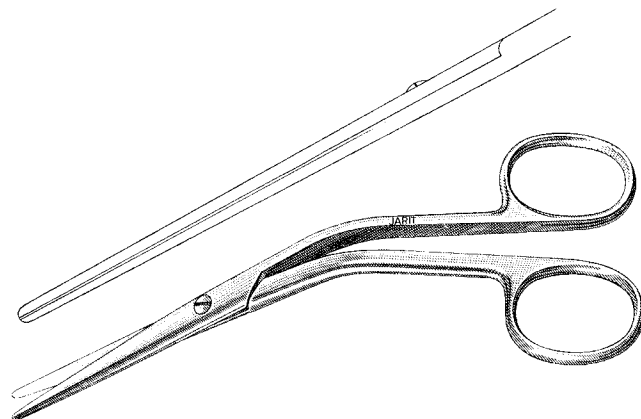
415-115 **FOMON** Dorsal Scissors,
5 $\frac{3}{4}$ " (14.6cm), angled handles



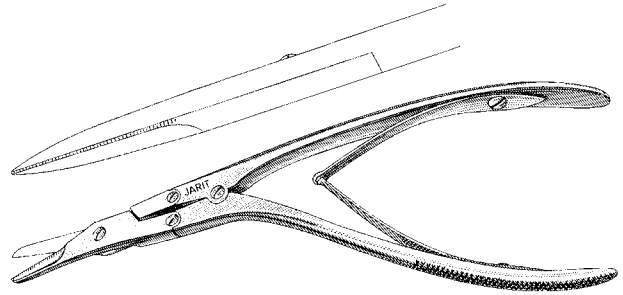
415-116 **GOLDMAN** Dorsal or Septum Scissors,
5 $\frac{3}{4}$ " (14.6cm), angled handles, serrated blades



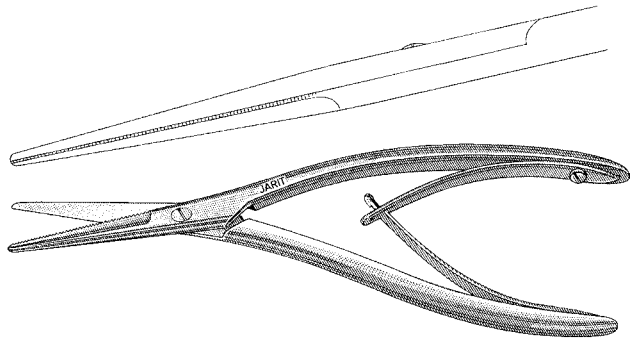
415-117 **COTTLE** Dorsal Scissors,
6 $\frac{1}{2}$ " (16.5cm), heavy, angled handles



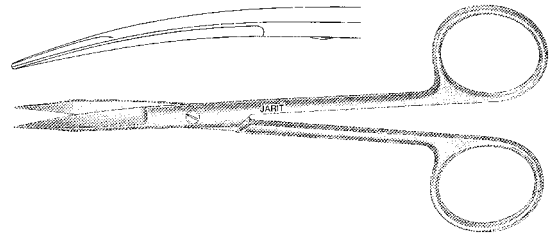
415-118 CAPLAN Nasal Bone Scissors,
7½" (19.1cm), double action, serrated blades



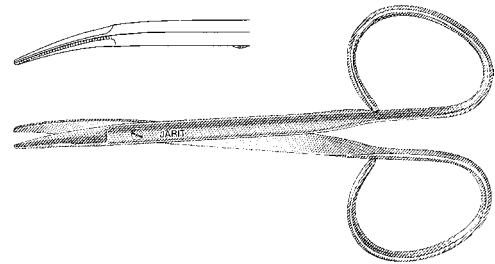
415-119 COTTLE Septum Scissors,
7" (17.8cm), angled handles, serrated blades



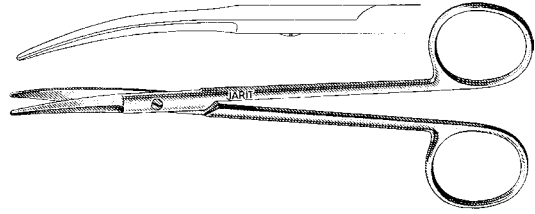
415-120 MILLER Dissecting Scissors,
5" (12.7cm), semi-sharp outer edges



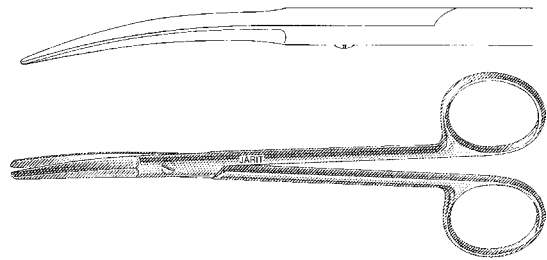
415-121 KAYE Dissecting Scissors,
4¼" (10.8cm), curved, serrated blades



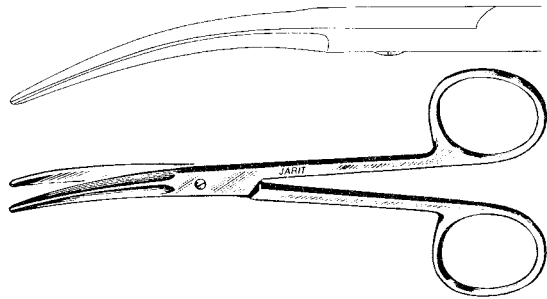
415-123 FOMON Saber Back Scissors,
5½" (14cm), curved,
semi-sharp outer edges



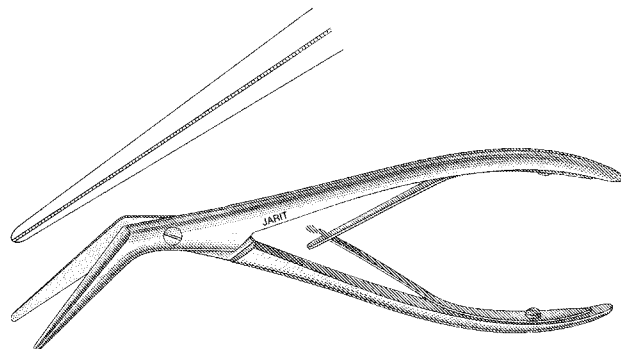
415-124 GOLDMAN Nasal Scissors,
5¾" (14.6cm), curved,
semi-sharp outer edges



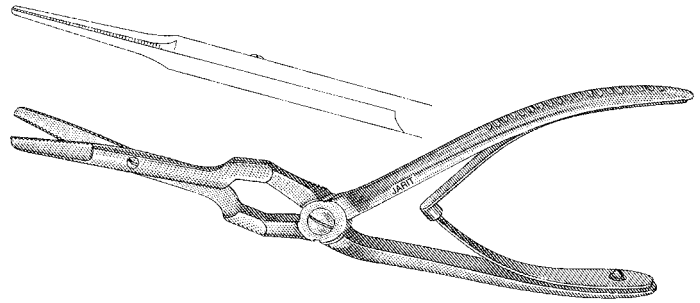
415-125 AUFRICHT Nasal Scissors,
5½" (14cm), curved,
semi-sharp outer edges



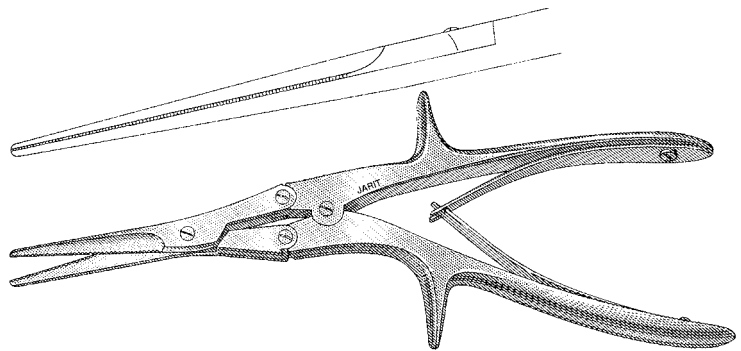
415-127 JACKSON Nasal Bone Scissors,
7¾" (20cm), angled, heavy pattern



415-130 BECKER Septum Scissors,
7 $\frac{1}{2}$ " (18cm), serrated blades



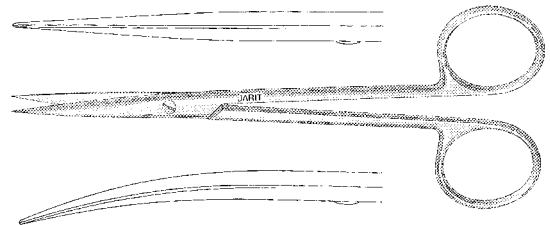
415-133 GORNEY Turbinate Scissors,
8" (20.3cm), double action,
serrated blades



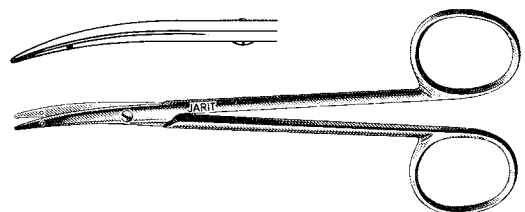
BROPHY Gum and Suture Scissors,
5 $\frac{1}{2}$ " (14.6cm), sharp

415-140 Straight

415-141 Curved

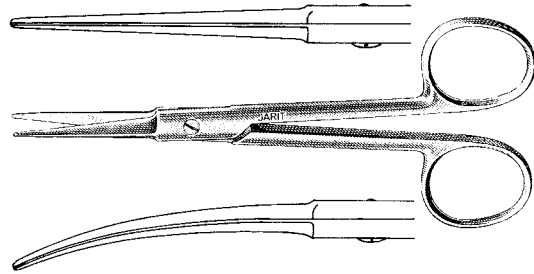


415-145 LITTLER Suture Carrying Scissors,
4 $\frac{1}{4}$ " (12.1cm), curved



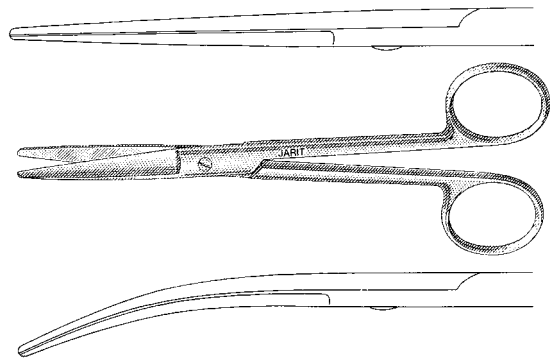
BROWN Dissecting Scissors,
5½" (14cm), heavy handles,
narrow blades

- 415-150 Straight
- 415-152 Curved



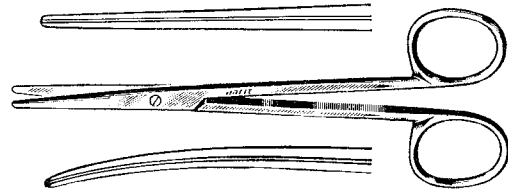
BROWN Dissecting Scissors,
5¾" (14.6cm)

- 415-170 Straight
- 415-172 Curved

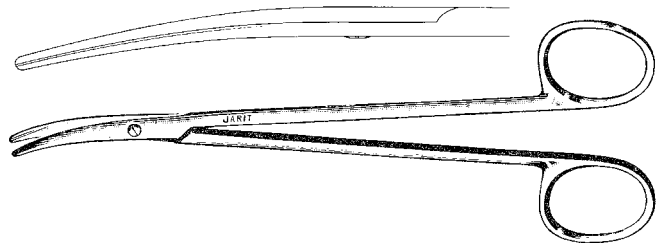


METZENBAUM (LAHEY) Scissors,
5¾" (14.6cm)

- 100-250 Straight
- 100-251 Curved

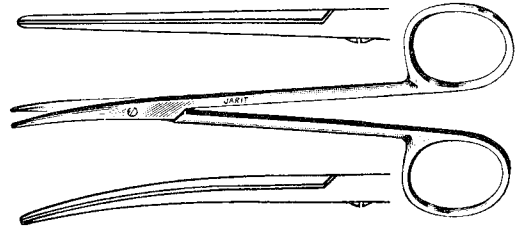


100-261 **METZENBAUM** Scissors,
7" (17.8cm), curved, slender, delicate

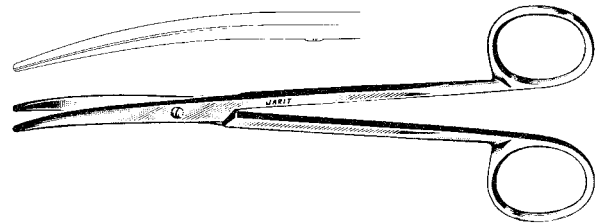


JARIT Scissors,
5¼" (13.3cm), delicate, dissecting tips

- 100-269** Straight
- 100-270** Curved

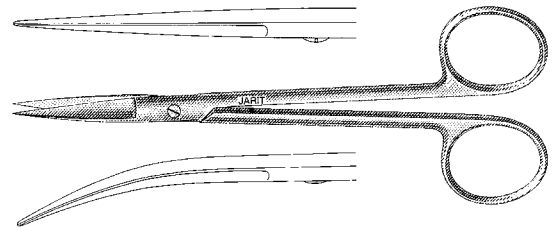


100-272 METZENBAUM (LAHEY) Scissors
5¾" (14.6cm), curved, delicate



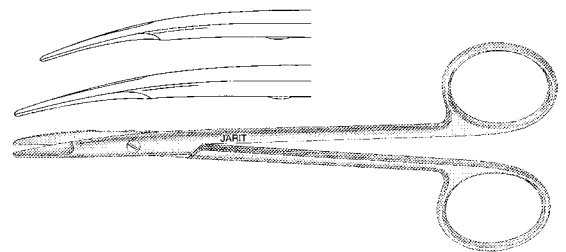
JOSEPH Scissors,
5¾" (14.6cm)

- 100-278** Straight
- 100-279** Curved



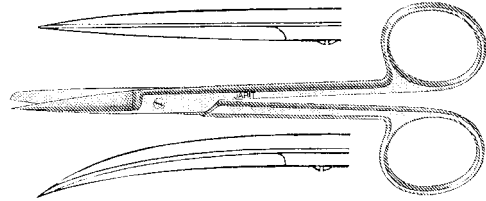
JARIT Flat Tip Scissors,
curved

- 100-290** 5" (12.7cm)
- 100-291** 7" (17.8cm)



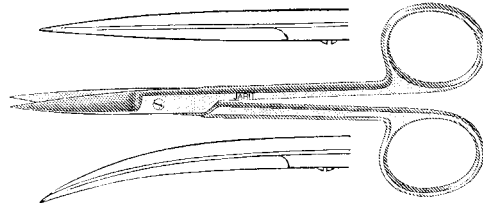
PLASTIC SURGERY Scissors,
4 $\frac{1}{4}$ " (12.1cm), 33mm blades, sharp-blunt

- 100-320 Straight
- 100-322 Curved



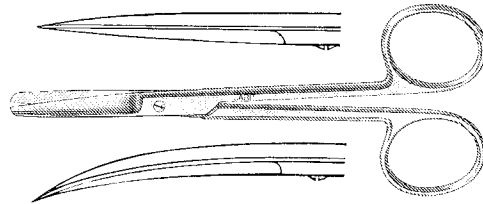
PLASTIC SURGERY Scissors,
4 $\frac{1}{4}$ " (12.1cm), 33mm blades, sharp-sharp

- 100-325 Straight
- 100-327 Curved

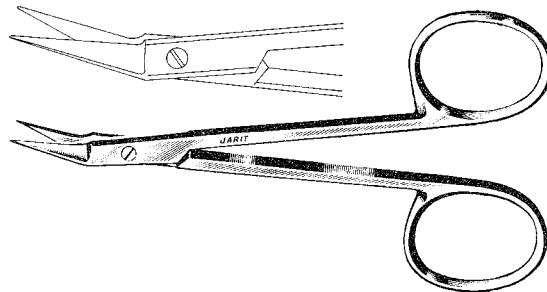


PLASTIC SURGERY Scissors,
4 $\frac{1}{4}$ " (12.1cm), 33mm blades, blunt-blunt

- 100-330 Straight
- 100-332 Curved

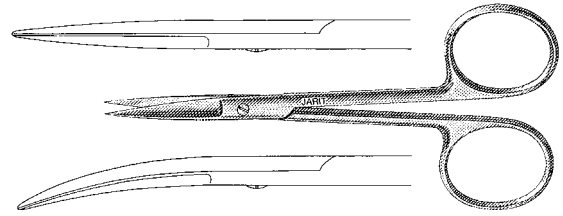


- 125-195 **O'BRIEN** Suture Scissors,
3 $\frac{1}{4}$ " (9.5cm), angled



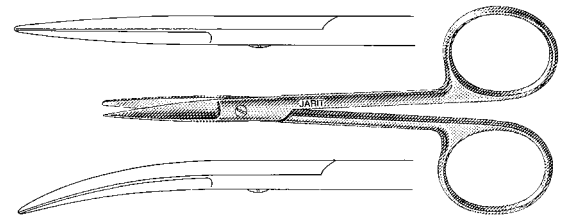
KNAPP Iris Scissors,
4" (10.1cm), 25mm blades, sharp-sharp

- 360-090** Straight
- 360-093** Curved



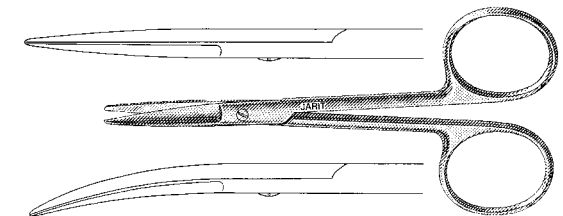
KNAPP Iris Scissors,
4" (10.1cm), 25mm blades, sharp-blunt

- 360-091** Straight
- 360-094** Curved



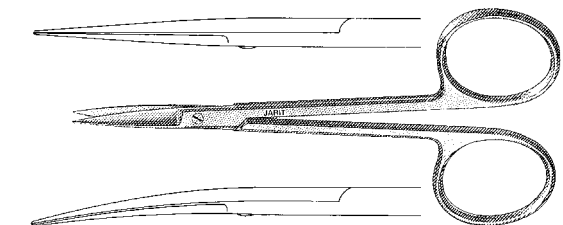
KNAPP Iris Scissors,
4" (10.1cm), 25mm blades, blunt-blunt

- 360-092** Straight
- 360-095** Curved

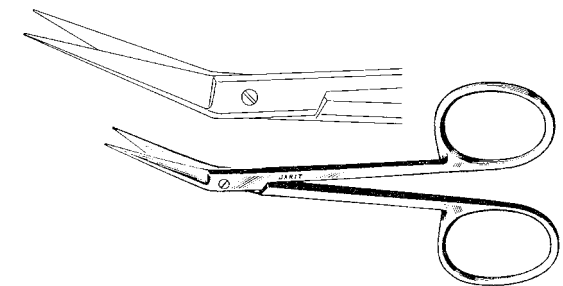


IRIS Scissors,
4½" (11.4cm), 25mm blades

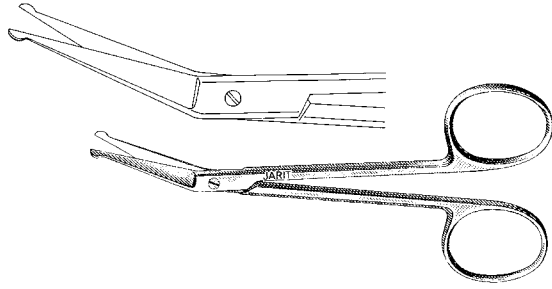
- 360-100** Straight
- 360-101** Curved



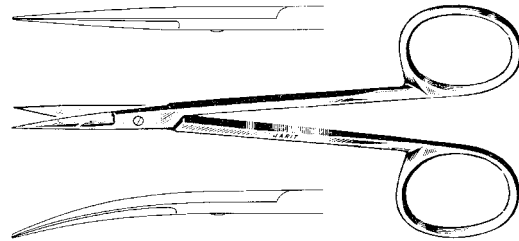
- 360-102** **IRIS** Scissors,
4½" (11.4cm), 25mm blades,
angled over edge



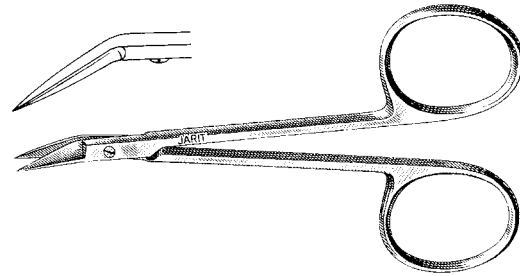
360-103 **IRIS** Scissors,
4½" (11.4cm), 25mm blades,
angled over edge, probe points



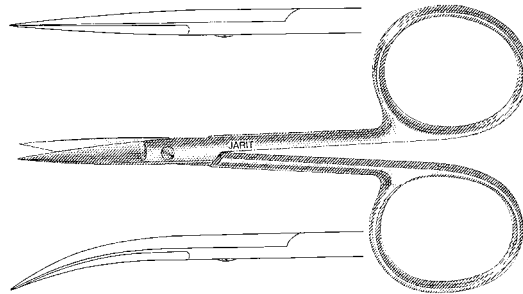
IRIS Scissors,
25mm blades
360-104 3½" (8.9cm), straight
360-105 3½" (8.9cm), curved
360-110 4¼" (10.5cm), extra delicate, straight
360-111 4¼" (10.5cm), extra delicate, curved



360-115 **WILMER** Conjunctival Scissors,
4¼" (10.5cm), delicate, 15mm blades,
angled on flat

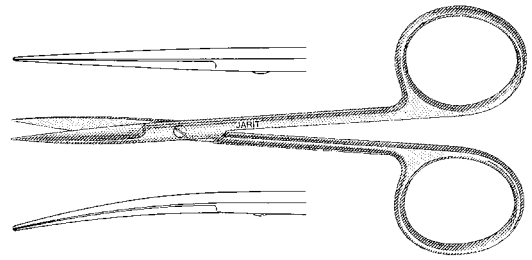


IRIS Scissors,
4" (10.1cm), 24mm blades,
large finger rings
360-117 Straight
360-118 Curved



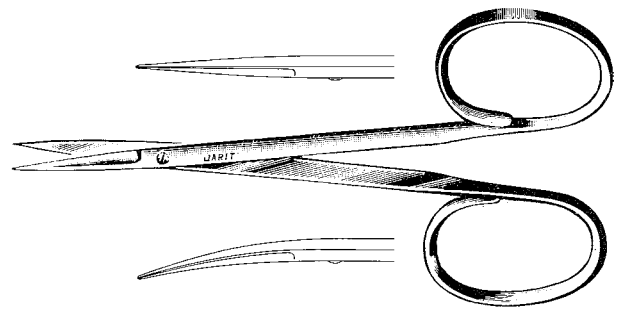
IRIS Scissors,
4 1/2" (10.5cm), delicate, 27mm blades

- 360-120** Straight
- 360-121** Curved



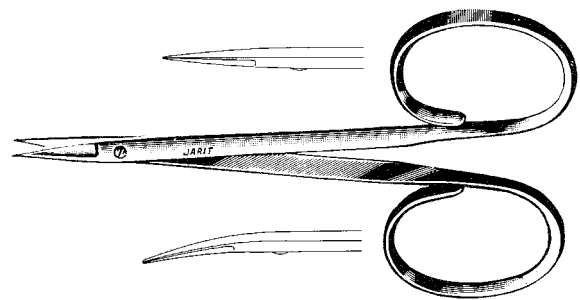
IRIS Scissors,
4" (10.1cm), 22mm blades,
flat shanks

- 360-122** Straight
- 360-123** Curved



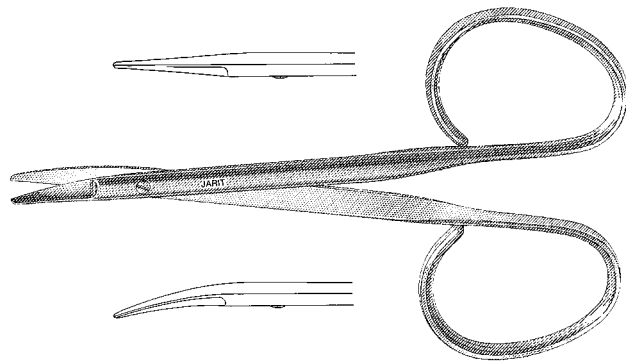
IRIS Scissors,
3 1/2" (8.9cm), delicate, 12mm blades,
flat shanks

- 360-125** Straight
- 360-126** Curved



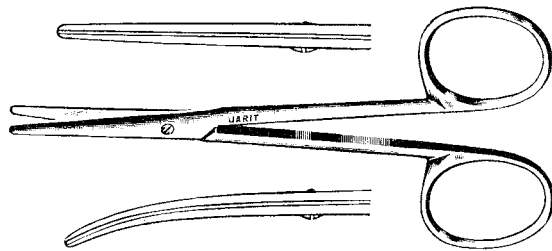
JARIT Utility Scissors,
4½" (10.5cm), 15mm blades,
flat shanks

- 360-127** Straight
- 360-128** Curved



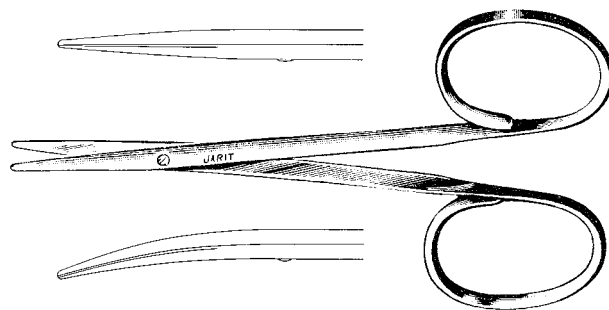
STRABISMUS Scissors,
4½" (11.4cm), 30mm blades

- 360-130** Straight
- 360-131** Curved

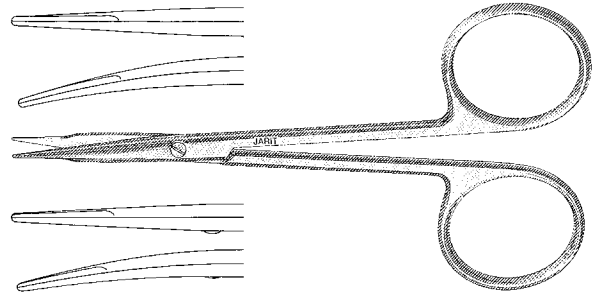


STRABISMUS Scissors,
4½" (10.5cm), 25mm blades,
flat shanks

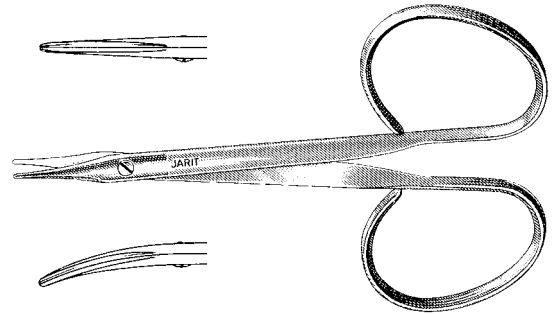
- 360-134** Straight
- 360-135** Curved



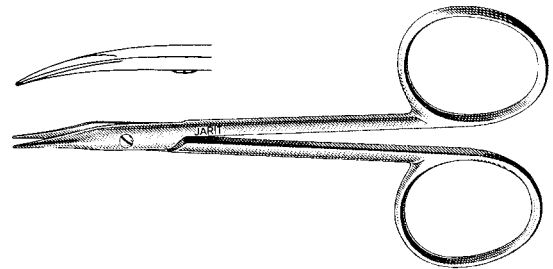
- STEVENS** Tenotomy Scissors,
blunt tips
- Standard Supercut
360-138 102-138 4½" (11.4cm), 13mm blades,
straight, slender pattern
- 360-139 102-139** 4½" (11.4cm), 13mm blades,
curved, slender pattern
- 360-140 102-140** 4½" (10.5cm), 12mm blades,
straight, standard pattern
- 360-141 102-141** 4½" (10.5cm), 12mm blades,
curved, standard pattern



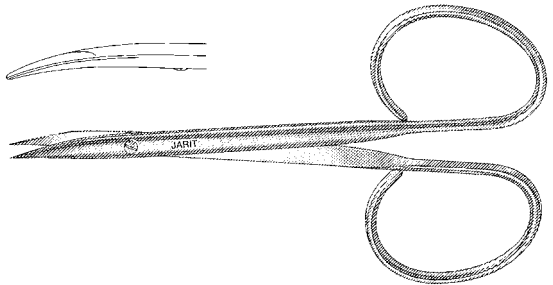
- STEVENS** Tenotomy Scissors,
3¾" (9.5cm), 13mm blades,
blunt tips, flat shanks
- 360-142** Straight
360-143 Curved



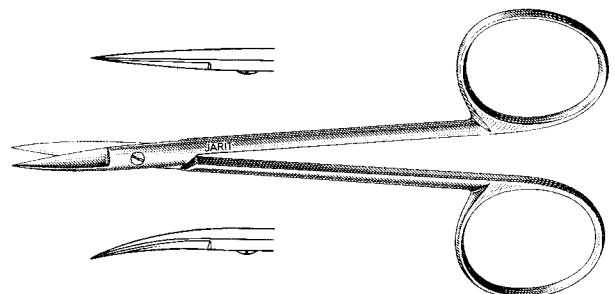
- 360-148 STEVENS** Stitch Scissors,
4½" (10.5cm), 14mm blades,
curved, sharp tips



- 360-149 STEVENS** Stitch Scissors,
3¾" (9.5cm), 12mm blades,
curved, sharp tips, flat shanks



- JARIT** Stitch Scissors,
3¾" (9.8cm), 15mm blades,
semi-sharp tips
- 360-154** Straight
360-155 Curved



JARIT CARB-EDGE SCISSORS

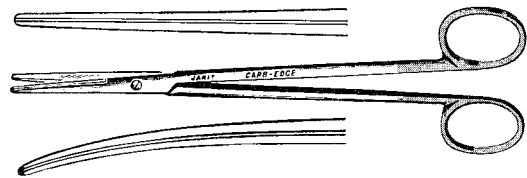
These superbly crafted instruments have solid inserts of a hard, tough alloy permanently welded to the scissors, and are vacuum hardened. This alloy, composed principally of tungsten, cobalt, chromium and carbon, is harder than stainless steel (61 to 65 Rockwell C). Cutting edges of JARIT CARB-EDGE Scissors stay sharp longer than those of ordinary scissors because of the high transfer rupture strength of the blade inserts.

The material is also highly resistant to corrosion, further prolonging its useful life.

JARIT CARB-EDGE Scissors are guaranteed to stay sharp for at least three years of normal usage. If sharpening should be required during the guarantee period, it will be done without charge. Finger rings are gold plated for easy identification.

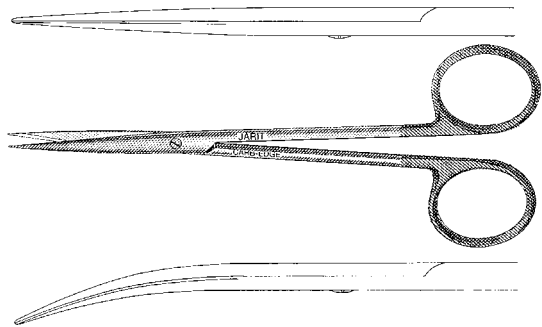
METZENBAUM (LAHEY) Scissors, delicate

- 101-250 5 $\frac{3}{4}$ " (14.6cm), straight
- 101-251 5 $\frac{3}{4}$ " (14.6cm), curved

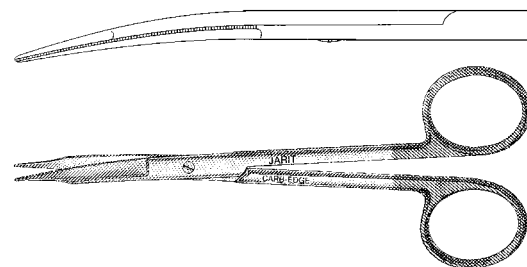


METZENBAUM (LAHEY) Scissors, delicate, sharp-sharp

- 101-252 5 $\frac{3}{4}$ " (14.6cm), straight
- 101-253 5 $\frac{3}{4}$ " (14.6cm), curved



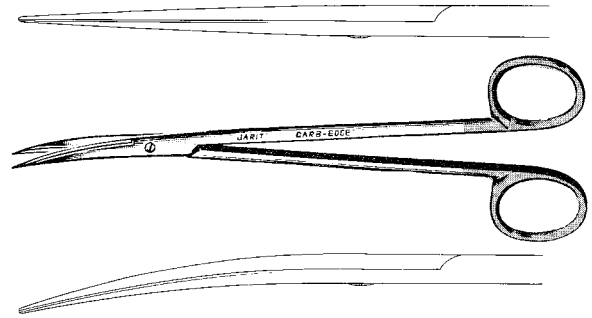
- 101-255 PETIT-POINT REYNOLDS Scissors,
5" (12.7cm) curved, one blade serrated



JARIT CARB-EDGE SCISSORS

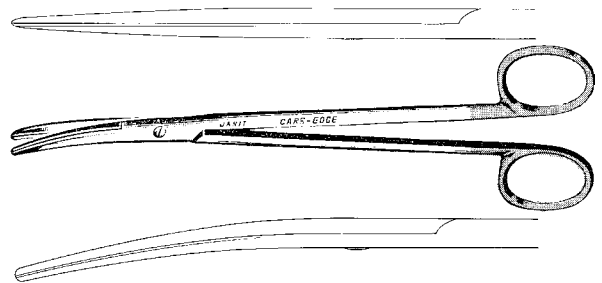
METZENBAUM Scissors,
sharp-sharp

- 101-257** 7" (17.8cm) straight
- 101-259** 7" (17.8cm), curved



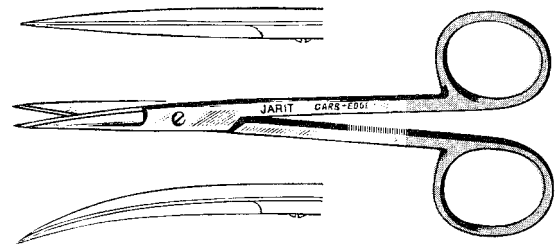
METZENBAUM Scissors,
delicate

- 101-260** 7" (17.8cm), straight
- 101-261** 7" (17.8cm), curved



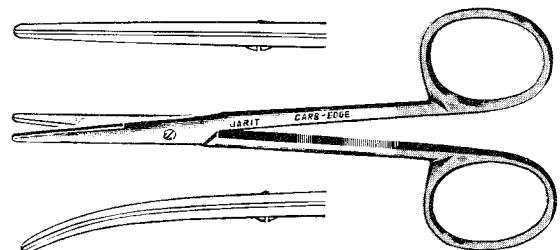
IRIS Scissors

- 101-300** 4½" (11.4cm), straight
- 101-301** 4½" (11.4cm), curved



STRABISMUS Scissors

- 101-310** 4½" (11.4cm), straight
- 101-311** 4½" (11.4cm), curved



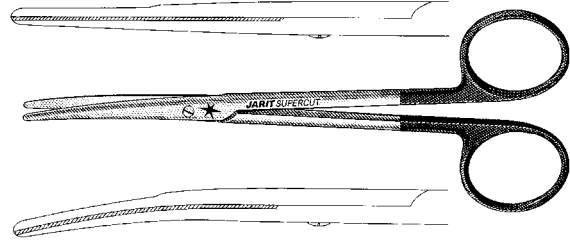
JARIT® JARIT SUPERCUT SCISSORS

Developed by utilizing unique and innovative methods of grinding, sharpening and heat treating, JARIT SUPERCUT scissors have achieved a degree of sharpness never before seen on conventional surgical scissors. In the surgeon's hand, the "feel" of the cutting motion is so smooth it creates a totally new sensation of absolute control.

Laboratory tests simulating hundreds of surgical procedures, confirmed that JARIT SUPERCUT scissors retain their sharpness long after conventional scissors become dull. JARIT backs this claim with a *Date-Stamped Certified Warranty*. Finger rings are black plated for easy identification.

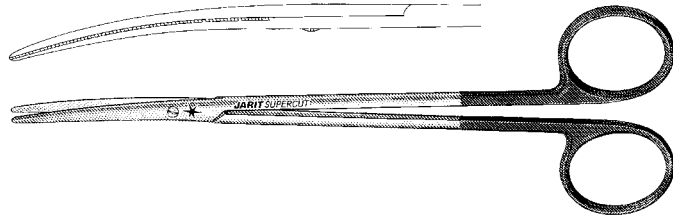
METZENBAUM (LAHEY) Scissors

- 102-119 5½" (14.6cm), straight
- 102-120 5½" (14.6cm), curved



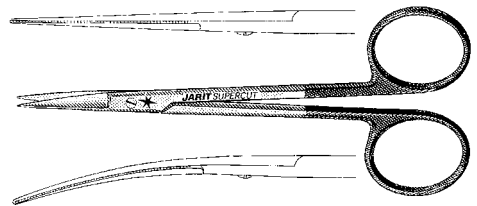
METZENBAUM Scissors

- 102-122 7" (17.8cm), curved
- 102-125 9" (22.8cm), curved

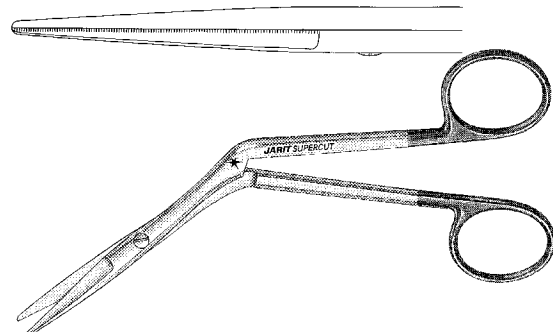


IRIS Scissors

- 102-130 4½" (11.4cm), straight
- 102-131 4½" (11.4cm), curved

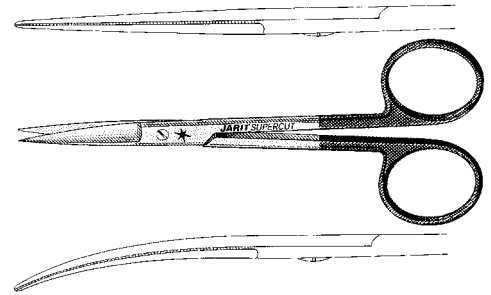


- 102-180 KNIGHT Nasal Scissors,
6¾" (17.1cm)

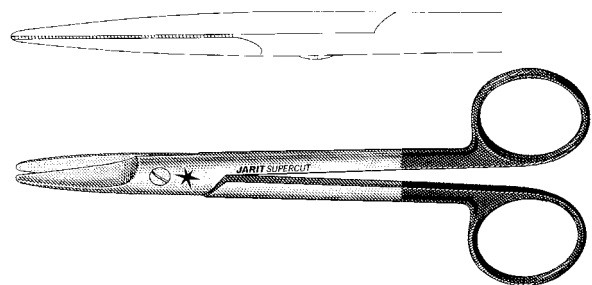


PLASTIC SURGERY Scissors

- 102-200 4 3/4" (12.1cm), straight
- 102-202 4 3/4" (12.1cm), curved

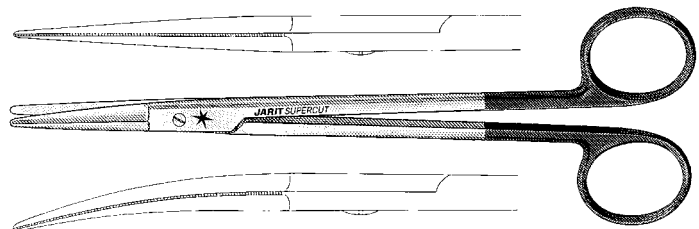


- 102-205 **CASTANARES** Face Lift Scissors,
6 1/4" (16cm), straight



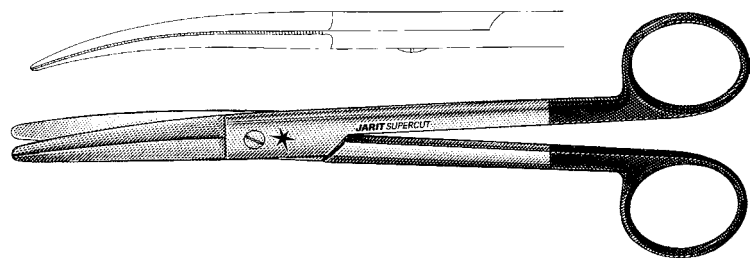
GORNEY Plastic Surgery Scissors

- 102-210 7 1/4" (18.4cm), straight
- 102-211 7 1/4" (18.4cm), curved



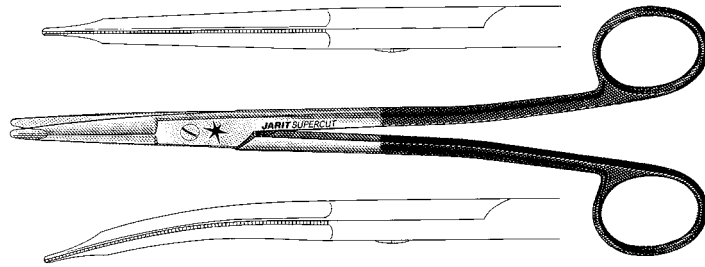
KAYE Face Lift Scissors,
curved beveled blades have
semi-sharp outer edges

- 102-215 6" (15.2cm)
- 102-216 7 1/2" (19cm)



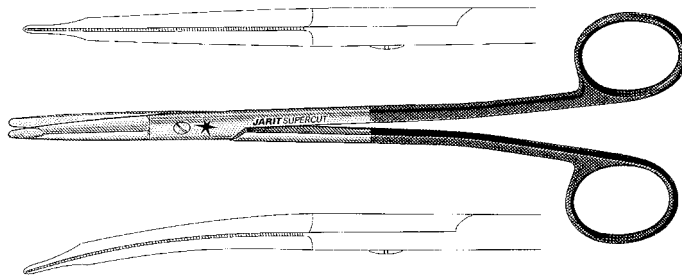
FREEMAN-GORNEY Face Lift Scissors, beveled blades have semi-sharp outer edges and flat, tapered tips; flared shanks for greater comfort and control.

- 102-220 7½" (19cm), straight
- 102-221 7½" (19cm), curved



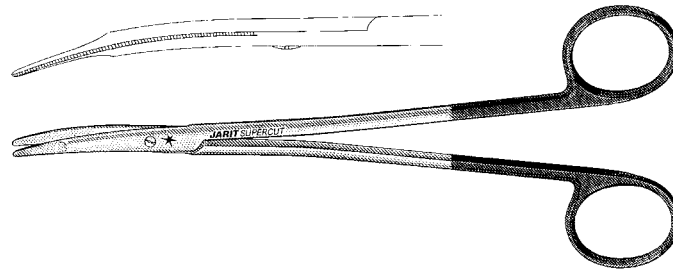
FREEMAN-KAYE Face Lift Scissors, beveled blades have semi-sharp outer edges and flat, tapered tips; flared shanks for greater comfort and control.

- 102-225 7" (17.8cm), straight
- 102-226 7" (17.8cm), curved



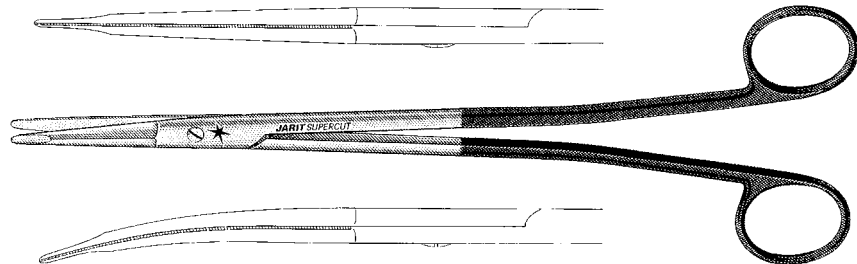
FREEMAN Rhytidectomy Scissors, with flat tips; flared shanks for greater comfort and control.

- 102-229 7" (17.8cm), curved

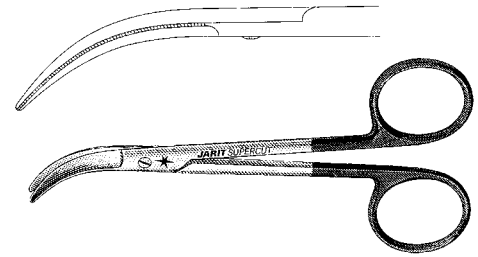


GORNEY Platysma Scissors, beveled blades have semi-sharp outer edges and flat, tapered tips; flared shanks for greater comfort and control.

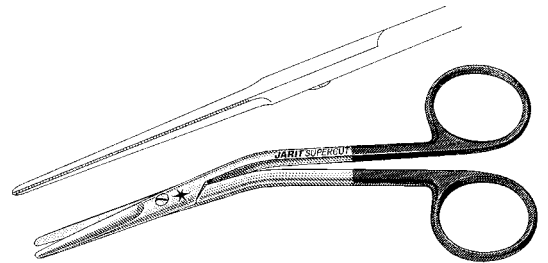
- 102-230 9" (22.8cm), straight
- 102-231 9" (22.8cm), curved



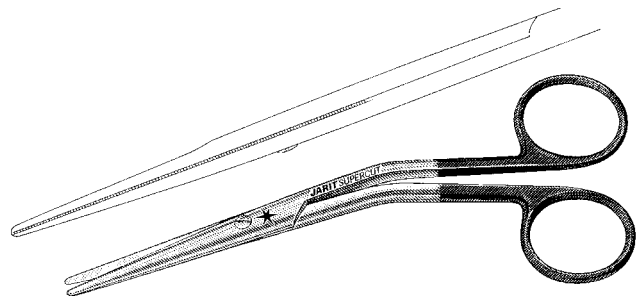
102-235 FOMON Lateral Scissors,
5" (12.7cm), full curved



102-236 FOMON Dorsal Scissors,
5 3/4" (14.6cm), angled on flat



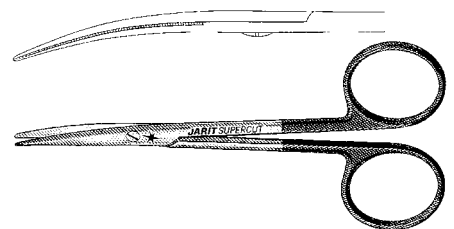
102-238 COTTLE Dorsal Scissors,
6 1/2" (16.5cm), angled on flat



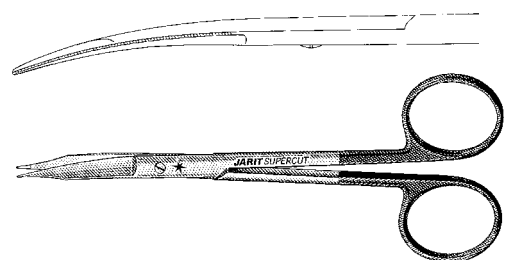
JARIT PLASTIC AND RECONSTRUCTIVE Scissors,
curved

102-240 4 1/2" (11.4cm)

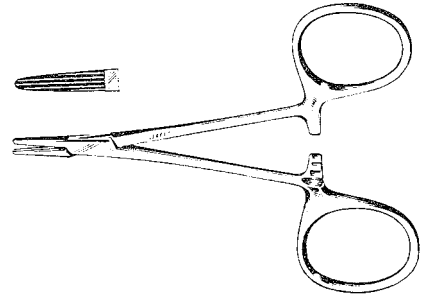
102-242 5 3/4" (14.6cm)



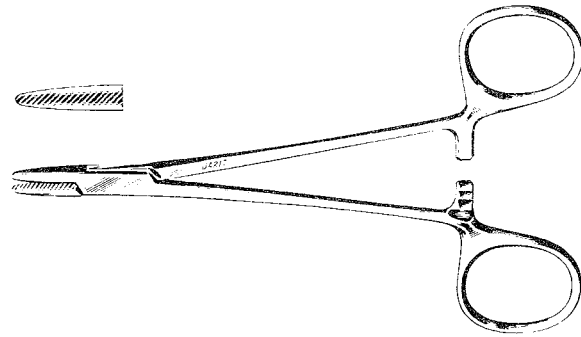
102-245 JARIT PETIT-POINT REYNOLDS Scissors,
5" (12.7cm), curved



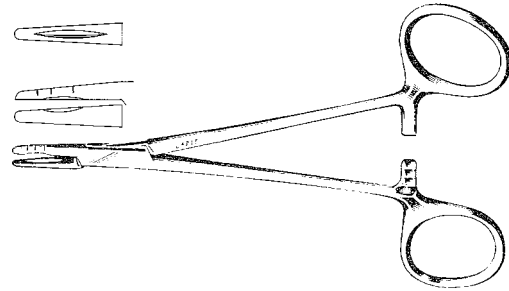
120-090 **CONVERSE** Needle Holder,
4¼" (10.8cm), large finger rings



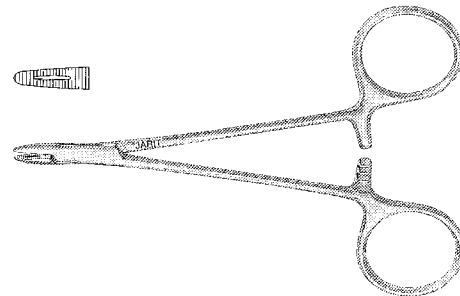
120-095 **BROWN** Needle Holder,
5¼" (13.3cm)



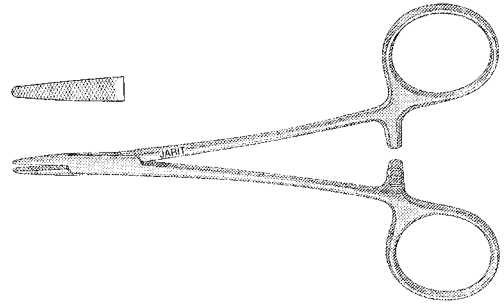
120-097 **NEIVERT** Needle Holder,
5" (12.7cm), thumb ring turned up



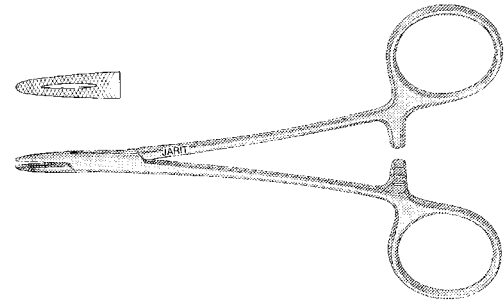
120-100 **DERF** Needle Holder,
4¼" (12.1cm)



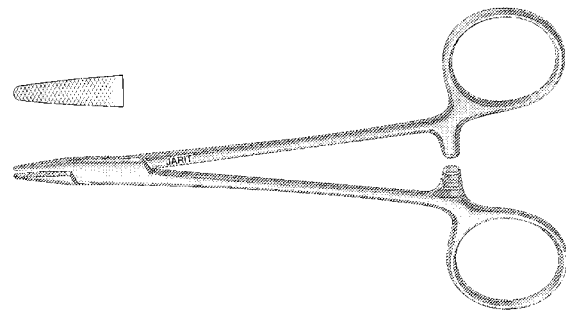
120-105 BAUMGARTNER Needle Holder,
5¼" (13.3cm), solid jaws



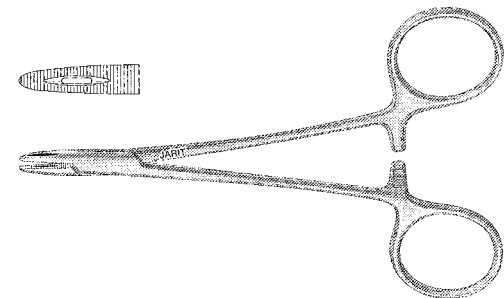
120-110 BAUMGARTNER Needle Holder,
5¼" (13.3cm), grooved jaws



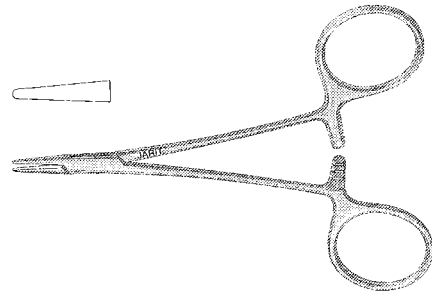
120-112 HEGAR-BAUMGARTNER Needle Holder,
5½" (14cm), solid jaws



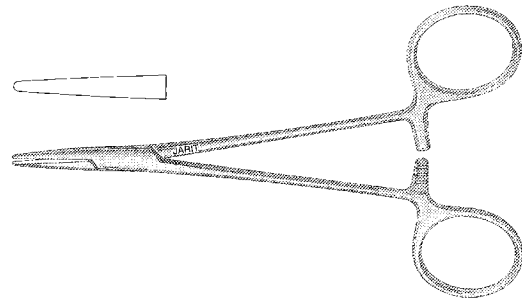
120-115 COLLIER Needle Holder,
5" (12.7cm)



120-118 WEBSTER Needle Holder,
4½" (11.4cm), smooth jaws



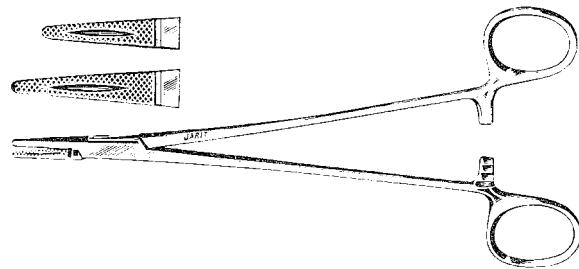
120-120 HALSEY Needle Holder,
5" (12.7cm), smooth jaws



CRILE-WOOD Needle Holders

120-130 6" (15.2cm)

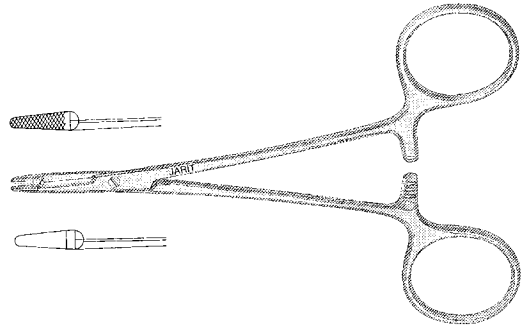
120-131 7" (17.8cm)



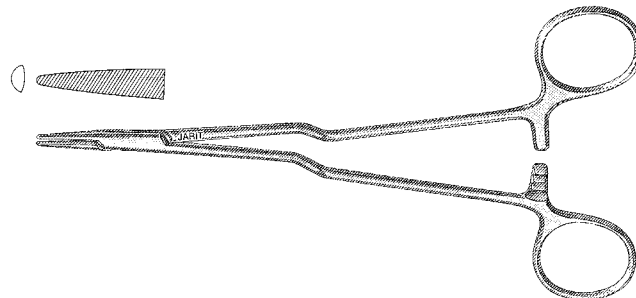
PETIT-POINT OLSEN-HEGAR Needle Holders,
5" (12.7cm), delicate

120-148 Serrated

120-149 Smooth



120-215 JARIT Bayonet Needle Holder,
6¾" (17.1cm), fine tapered jaws



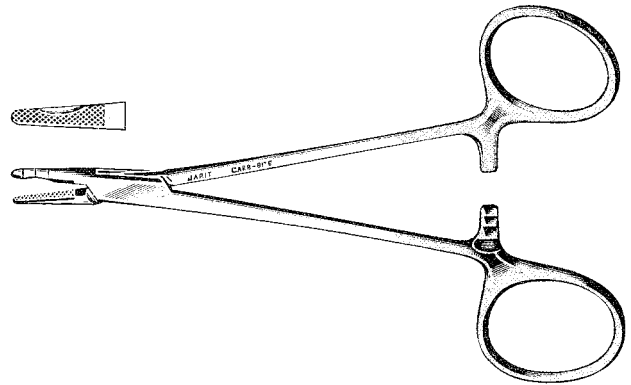
JARIT[®] CARB-BITE NEEDLE HOLDERS

JARIT CARB-BITE Needle Holders feature jaw inserts of solid tungsten carbide. Sharply defined serrations have been milled into these inserts to provide a secure hold on the suture needle.

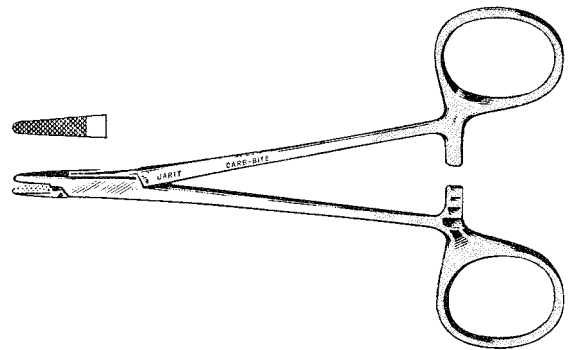
Because tungsten carbide is much harder than stainless steel, the useful life of CARB-BITE

Needle Holders greatly exceeds that of ordinary needle holders. JARIT CARB-BITE Needle Holders are guaranteed for a minimum of three years of normal usage. If jaw serrations should wear smooth while under guarantee, new CARB-BITE inserts will be installed without charge. Finger rings are gold plated for easy identification.

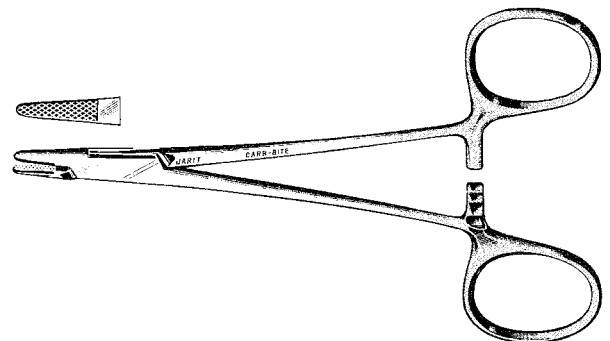
121-097 NEIVERT Needle Holder,
5" (12.7cm), thumb ring turned up



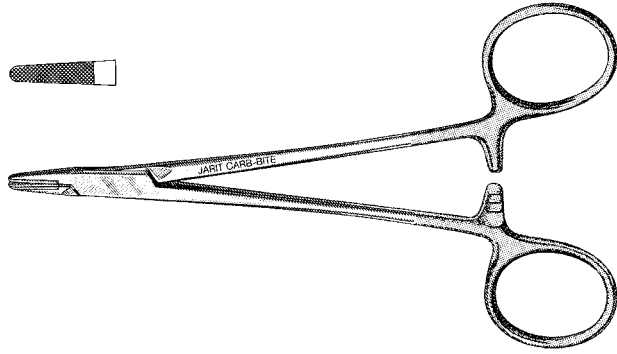
121-100 DERF Needle Holder,
4 1/4" (12.1cm)



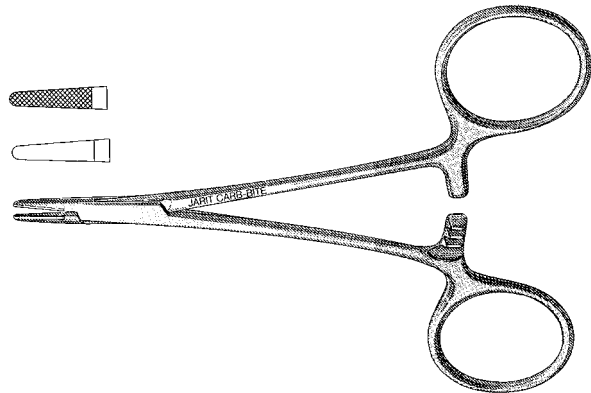
121-105 BAUMGARTNER Needle Holder,
5 1/4" (13.3cm)



JARIT CARB-BITE NEEDLE HOLDERS



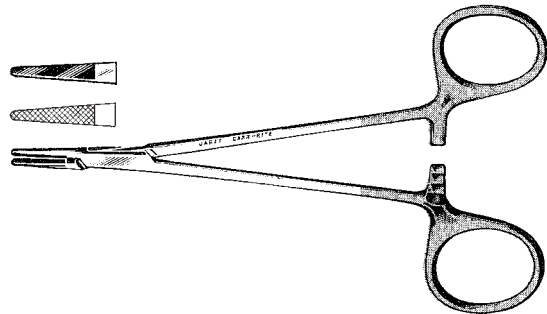
121-106 HEGAR-BAUMGARTNER Needle Holder,
5½" (14cm)



JARIT PLASTIC AND RECONSTRUCTIVE Needle Holders

121-115 4" (12cm), serrated

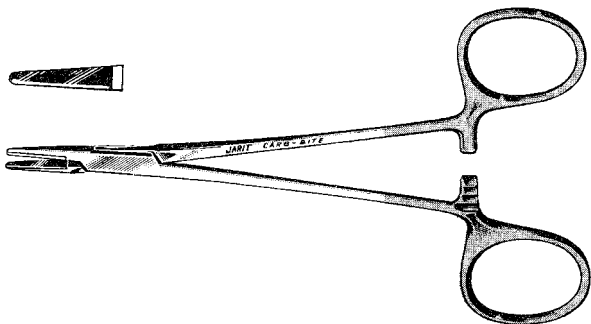
121-116 4" (12cm), smooth



WEBSTER Needle Holder,

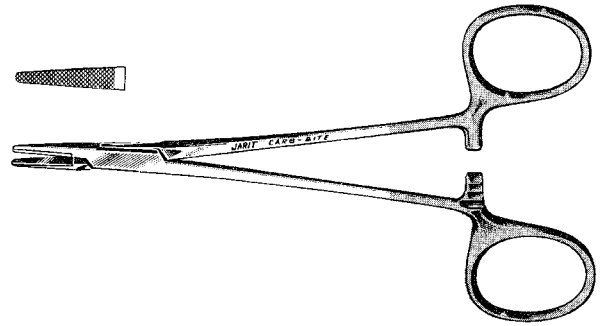
121-118 4½" (11.4cm), smooth

121-119 4½" (11.4cm), serrated, 3600 teeth per square inch



121-120 HALSEY Needle Holder,
5" (12.7cm), smooth

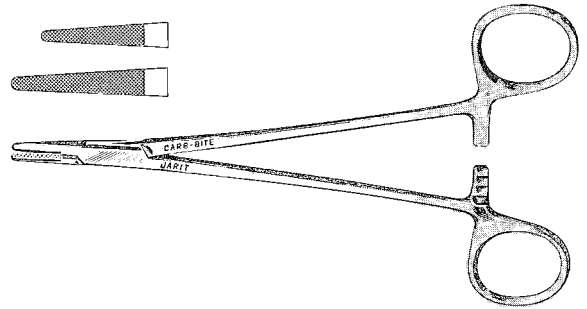
121-121 **HALSEY** Needle Holder,
5" (12.7cm), serrated



CRILE-WOOD Needle Holders

121-130 6" (15.2cm)

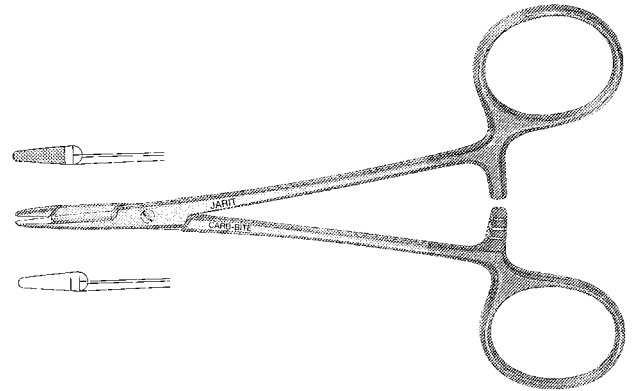
121-131 7" (17.8cm)



PETIT-POINT OLSEN-HEGAR Needle Holders,
5" (12.7cm), delicate

121-148 Serrated

121-149 Smooth



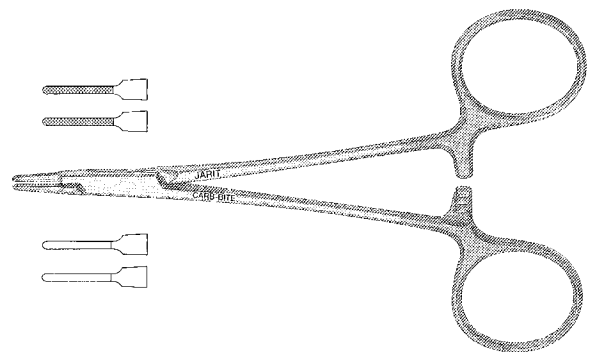
PETIT-POINT RYDER Needle Holders,
1mm jaws

121-170 5" (12.7cm), serrated

121-171 5" (12.7cm), smooth

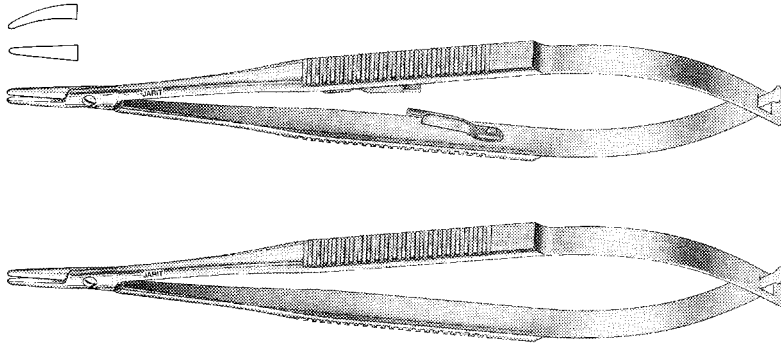
121-172 6" (15.2cm), serrated

121-173 6" (15.2cm), smooth



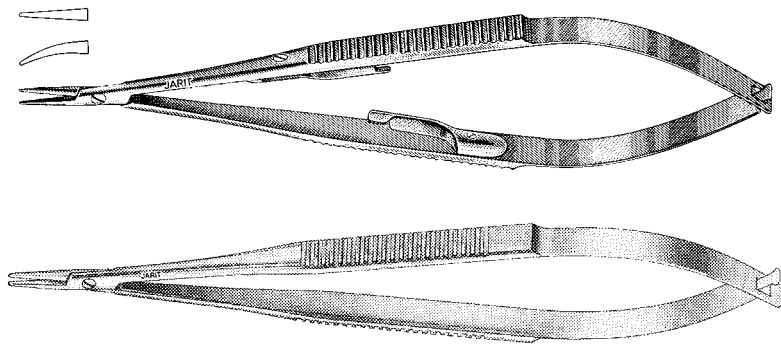
CASTROVIEJO Needle Holders,
5½" (14cm), 11mm smooth jaws,
flat serrated handle

- 355-404 Curved, lock
- 355-404NL Curved, no lock
- 355-405 Straight, lock
- 355-405NL Straight, no lock



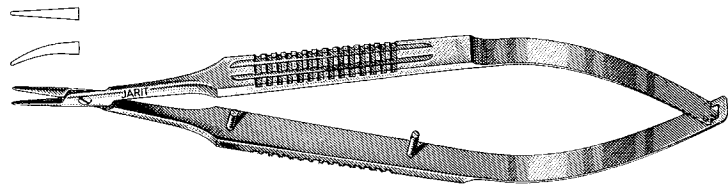
CASTROVIEJO Needle Holders,
5½" (14cm), 10mm smooth jaws,
flat serrated handle

- 355-406 Straight, lock
- 355-406NL Straight, no lock
- 355-407 Curved, lock
- 355-407NL Curved, no lock



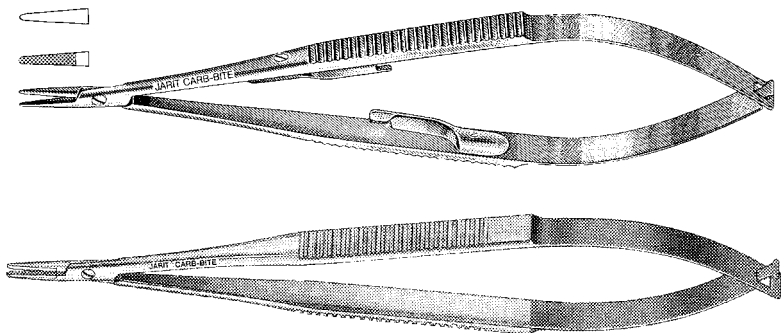
CASTROVIEJO Needle Holders,
5" (12.7cm), 9mm smooth jaws,
wide serrated handle

- 355-408 Straight, without lock
- 355-409 Curved, without lock
- 355-410 Straight, with lock
- 355-411 Curved, with lock



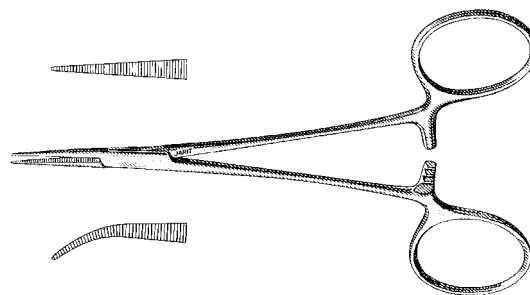
CASTROVIEJO Needle Holders,
5½" (14cm), 11mm CARB-BITE,
straight jaws, flat serrated handle

- 355-412 Smooth, lock
- 355-412NL Smooth, no lock
- 355-413 Serrated, lock
- 355-413NL Serrated, no lock



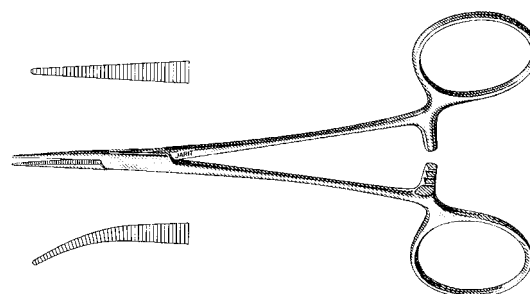
PETIT-POINT JACOBSON MOSQUITO Forceps

- 105-088** 5" (12.7cm), straight
- 105-089** 5" (12.7cm), curved



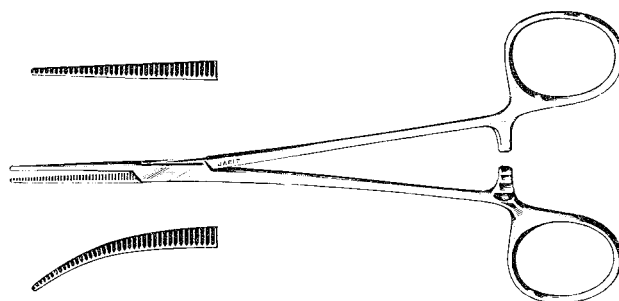
PETIT-POINT MOSQUITO Forceps

- 105-090** 3½" (9.8cm), straight
- 105-091** 3½" (9.8cm), curved
- 105-095** 4¾" (12.1cm), straight
- 105-096** 4¾" (12.1cm), curved



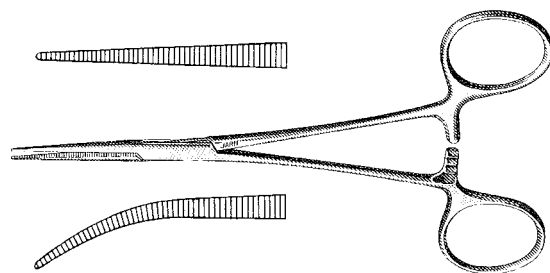
PETIT-POINT MOSQUITO Forceps

- 105-098** 6" (15.2cm), straight
- 105-099** 6" (15.2cm), curved



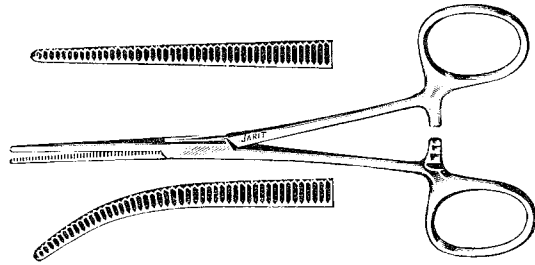
PETIT-POINT CRILE Forceps

- 105-118** 5½" (14cm), straight
- 105-119** 5½" (14cm), curved



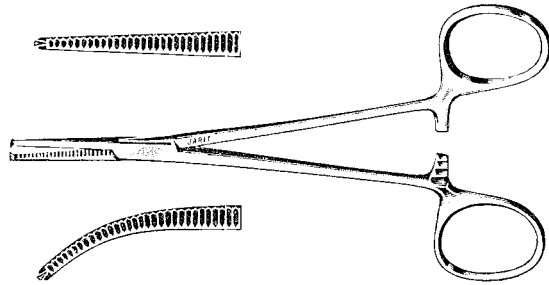
PETIT-POINT PEAN Forceps

- 105-163** 5½" (14cm), straight
- 105-164** 5½" (14cm), curved



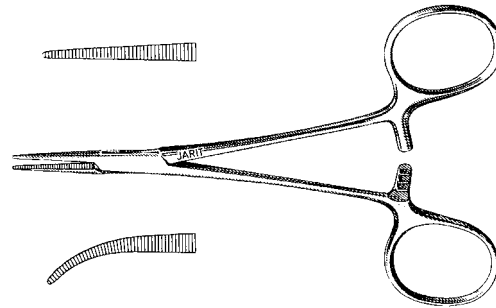
PETIT-POINT OCHSNER Forceps

- 105-233** 5½" (14cm), straight
- 105-234** 5½" (14cm), curved



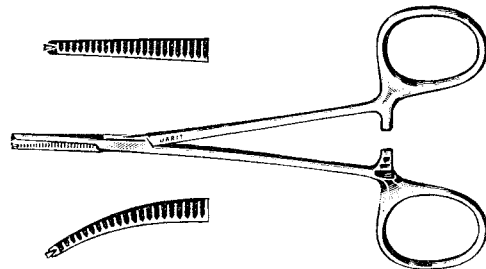
HALSTEAD Mosquito Forceps,
5" (12.7cm)

- 105-100** Straight, mirror finish
- 105-102** Curved, mirror finish
- 106-100** Straight, satin finish
- 106-102** Curved, satin finish



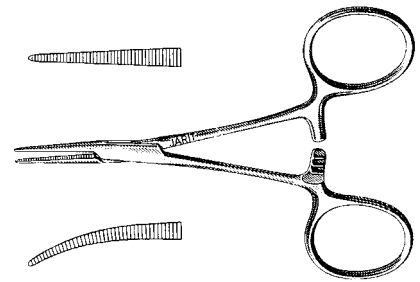
HALSTEAD Mosquito Forceps,
5" (12.7cm)

- 105-110** Straight, 1 x 2 teeth, mirror finish
- 105-112** Curved, 1 x 2 teeth, mirror finish



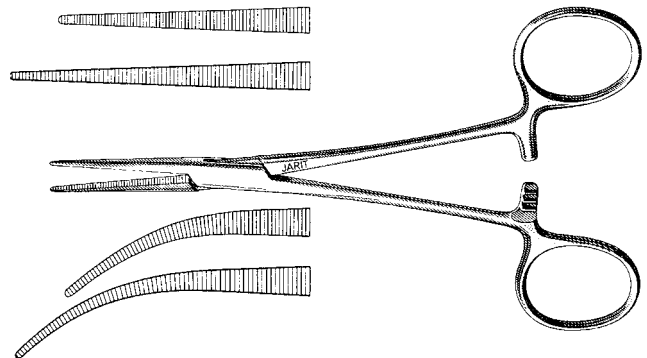
HARTMAN Mosquito Forceps,
3½" (8.9cm)

- 105-114** Straight, mirror finish
- 105-115** Curved, mirror finish



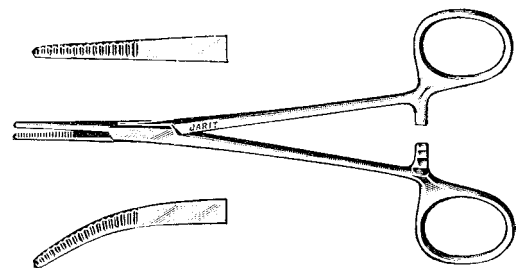
COLLER-CRILE Forceps,
fine tapered tips

- 105-142** 5½" (14cm), straight, mirror finish
- 105-143** 6¼" (16cm), straight, mirror finish
- 105-144** 5½" (14cm), curved, mirror finish
- 105-145** 6¼" (16cm), curved, mirror finish



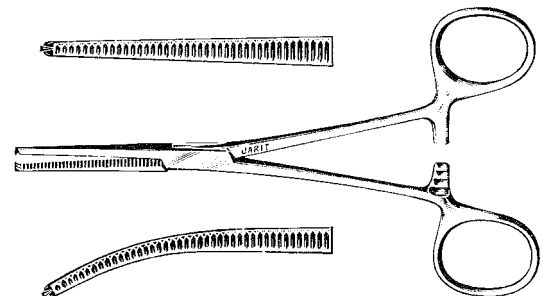
PROVIDENCE HOSPITAL Forceps

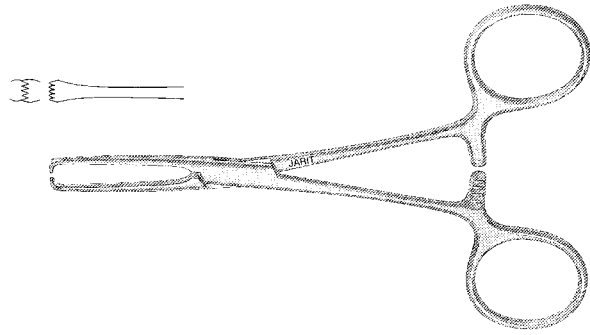
- 105-160** 5½" (14cm), straight, mirror finish
- 105-161** 5½" (14cm), curved, mirror finish



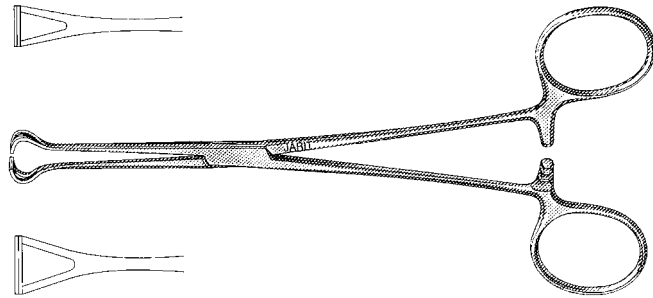
KOCHER Forceps

- 105-230** 5½" (14cm), straight, mirror finish
- 105-232** 5½" (14cm), curved, mirror finish





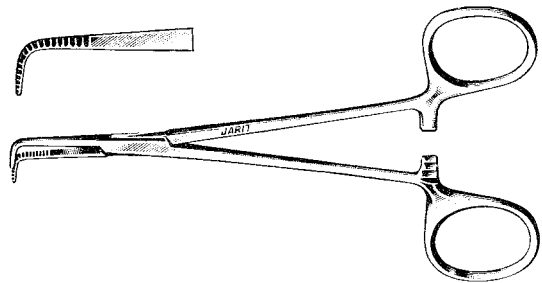
135-095 **PETIT-POINT ALLIS** Tissue Forceps,
5¼" (13.3cm), 4 x 5 teeth



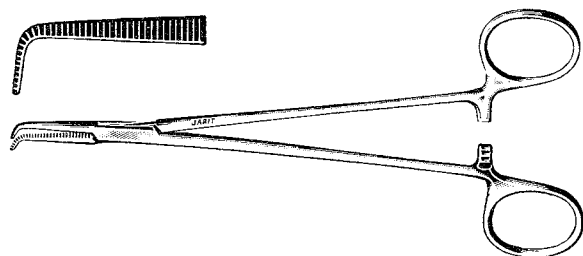
PETIT-POINT BABCOCK Forceps

135-179 5¼" (14.6cm), jaw width 6mm

135-180 6¼" (16cm), jaw width 7.5mm



140-218 **PETIT-POINT MIXTER** Forceps,
5¼" (13.3cm)



140-223 **PETIT-POINT MIXTER** Forceps,
7¼" (18.4cm)

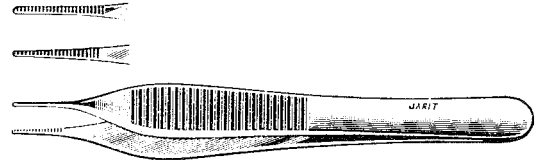


DRESSING AND TISSUE FORCEPS

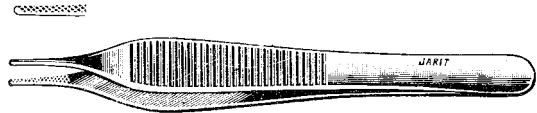
ADSON Dressing Forceps,
serrated

130-230 4 3/4" (12.1cm)

130-231 4 3/4" (12.1cm), extra delicate, 0.8mm wide tip



130-232 **ADSON** Dressing Forceps,
4 3/4" (12.1cm), cross-serrated



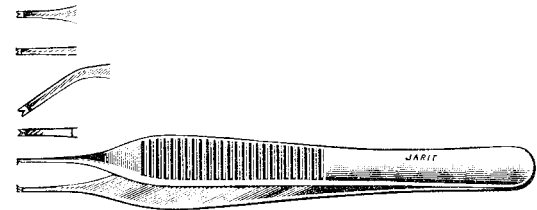
ADSON Tissue Forceps,
1 x 2 teeth

130-234 4 3/4" (12.1cm)

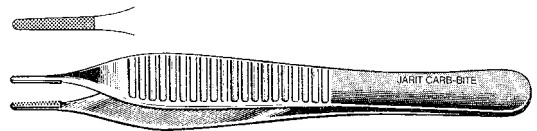
130-235 4 3/4" (12.1cm), extra delicate, 0.8mm wide tip

130-237 4 3/4" (12.1cm), angled

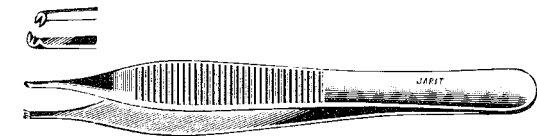
130-238 4 3/4" (12.1cm), with tying platform



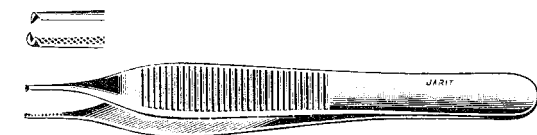
130-236 **ADSON** Tissue Forceps,
4 3/4" (12.1cm), CARB-BITE tips



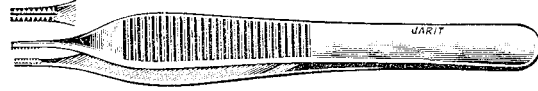
130-240 **ADSON** Tissue Forceps,
4 3/4" (12.1cm), 2 x 3 teeth



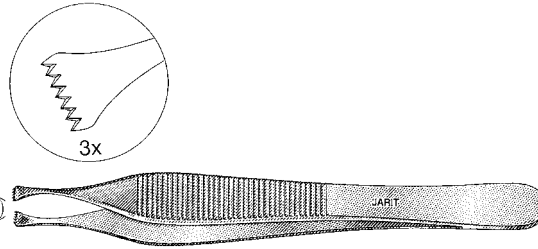
130-245 **ADSON** Tissue Forceps,
4 3/4" (12.1cm), 1 x 2 teeth, serrated



130-260 BROWN-ADSON Tissue Forceps,
4 3/4" (12.1cm), 9 x 9 teeth



130-262 BEASLEY-BABCOCK Tissue Forceps,
5" (12.7cm), 6 x 7 teeth



BROWN Tissue Forceps,
8 x 8 teeth

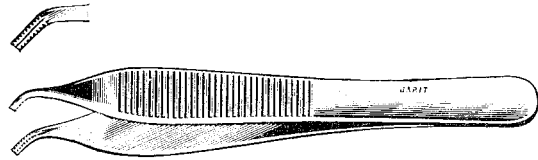
130-265 6" (15.2cm)

130-266 8" (20.3cm)

130-267 10" (25.4cm)



130-270 BROWN-ADSON Tissue Forceps,
4 3/4" (12.1cm), 9 x 9 teeth, angled



SEMKEN Dressing Forceps,
serrated

130-275 4 3/4" (12.1cm)

130-276 6" (15.2cm)



SEMKEN Tissue Forceps

130-280 4 3/4" (12.1cm), 1 x 2 teeth

130-281 6" (15.2cm), 1 x 2 teeth

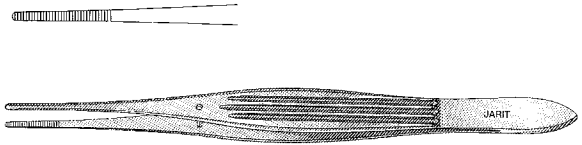
130-282 4 3/4" (12.1cm), 2 x 3 teeth



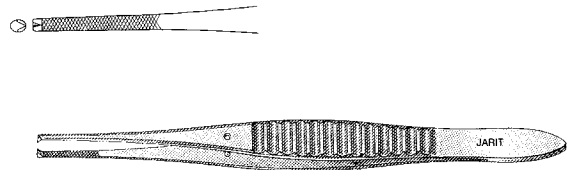


DRESSING AND TISSUE FORCEPS

130-284 **McINDOE** Dressing Forceps,
6" (15.2cm), serrated

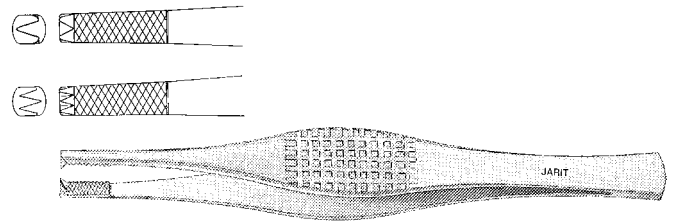


130-286 **GILLIES** Tissue Forceps,
6" (15.2cm), 1 x 2 teeth, cross-serrated



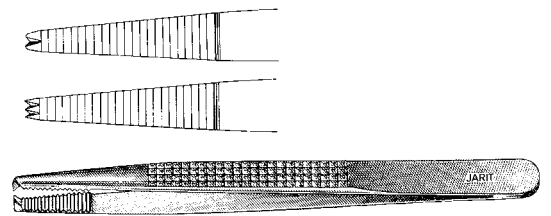
FERRIS-SMITH Tissue Forceps

130-289 6 3/4" (17.1cm), 1 x 2 teeth
130-290 6 3/4" (17.1cm), 2 x 3 teeth



BONNEY Tissue Forceps

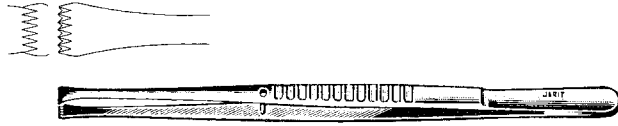
130-293 6 3/4" (17.1cm), 1 x 2 teeth
130-294 6 3/4" (17.1cm), 2 x 3 teeth





DRESSING AND TISSUE FORCEPS

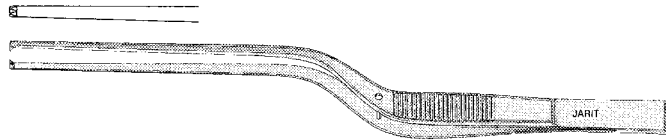
130-370 NELSON Tissue Forceps,
6" (15.2cm), 6 x 7 teeth



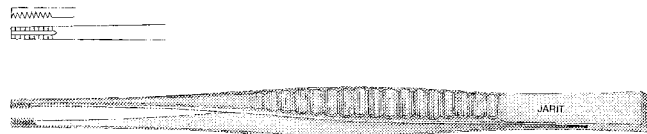
130-405 CUSHING Tissue Forceps,
7" (17.8cm), straight,
1 x 2 teeth, scraper end



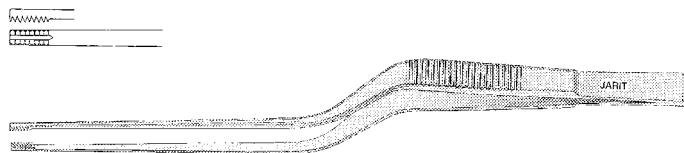
130-415 CUSHING Tissue Forceps,
7 1/4" (18.4cm), bayonet,
1 x 2 teeth, scraper end



130-440 CUSHING-BROWN Tissue Forceps,
7" (17.8cm), straight, double row
of 9 x 9 delicate teeth, scraper end

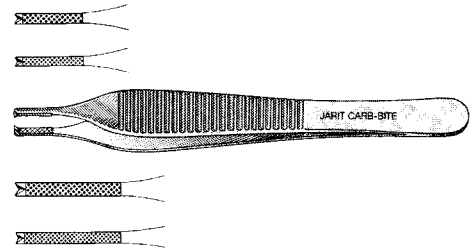


130-442 CUSHING-BROWN Tissue Forceps,
7 1/4" (18.4cm), bayonet, double row
of 9 x 9 delicate teeth, scraper end

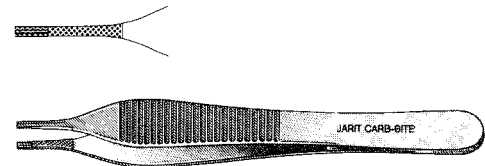


ADSON Needle Forceps,
1 x 2 teeth

- 122-500** 4 3/4" (12.1cm)
- 122-501** 4 3/4" (12.1cm), delicate
- 122-502** 6" (15.2cm)
- 122-503** 6" (15.2cm), delicate

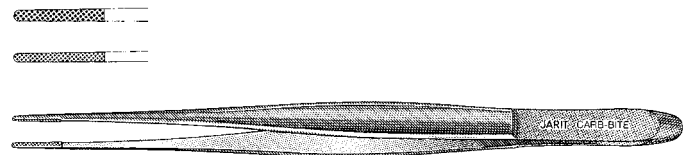


- 122-510 BROWN-ADSON** Needle Forceps,
4 3/4" (12.1cm), 3 x 4 teeth



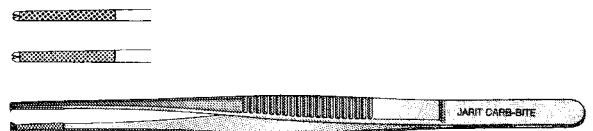
CUSHING Needle Forceps,
Gutsch handle, scraper end

- 122-530** 7" (17.8cm)
- 122-535** 7" (17.8cm), delicate



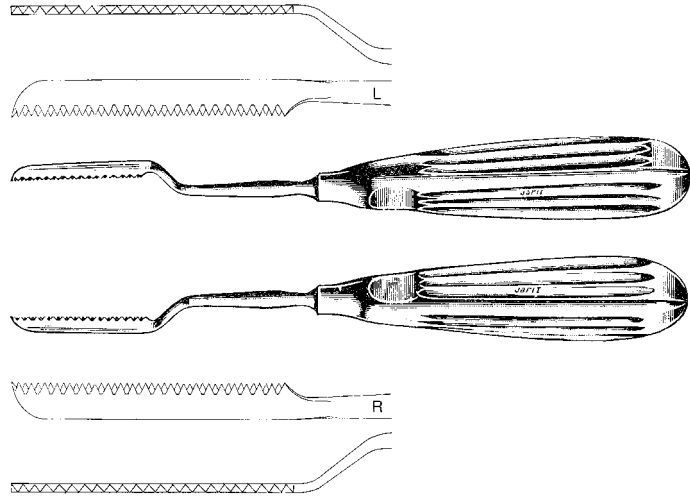
SEMKEN Needle Forceps,
1 x 2 teeth

- 122-590** 6" (15.2cm)
- 122-591** 6" (15.2cm), delicate

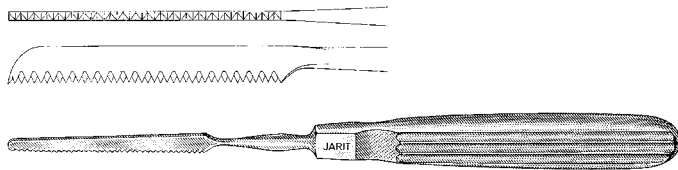


JOSEPH Saws,
7½" (19cm)

- 420-100 Bayonet blade angled left
- 420-101 Bayonet blade angled right

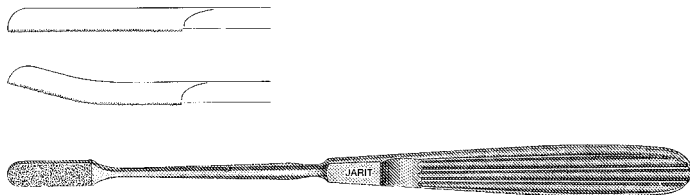


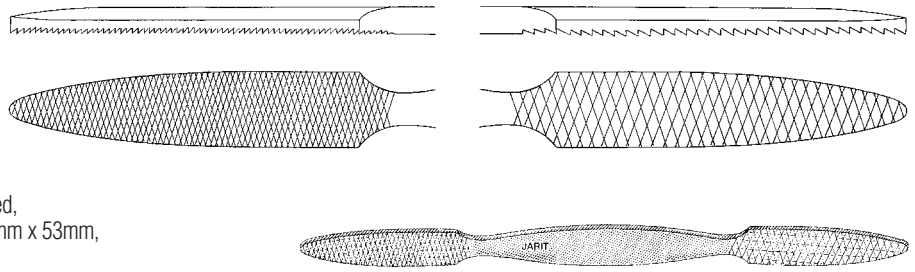
- 420-102 **JOSEPH** Saw,
6¾" (17.5cm), straight



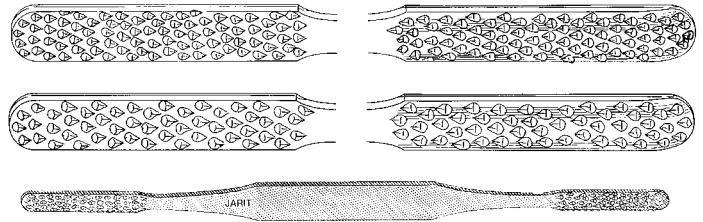
JARIT STARDUST Rasps,
7½" (19cm), 7mm x 25mm blade

- 420-110 Straight
- 420-111 Curved



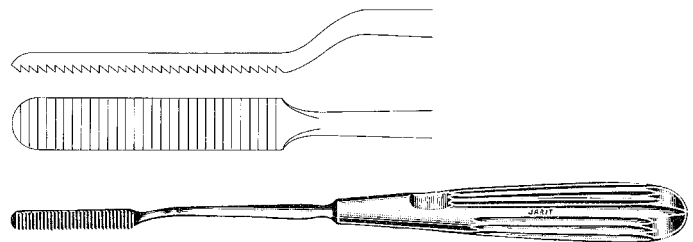


420-120 CONVERSE Rasp,
7" (17.8cm), double-ended,
fine and coarse ends, 11mm x 53mm,
cuts on down stroke

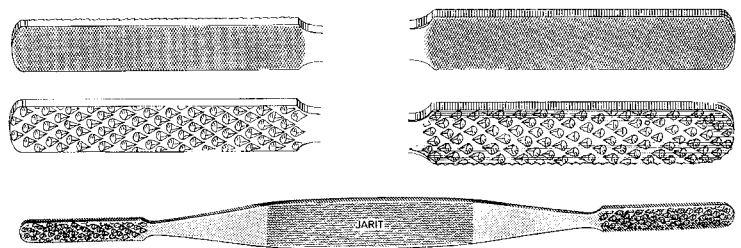


FOMON Rasps,
8½" (21.6cm), double-ended,
convex and flat sides, 7mm x 35mm,
cuts on down stroke

420-125 Fine
420-126 Coarse



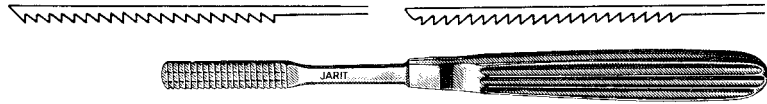
420-130 COTTLE Rasp,
8" (20.3cm), 7mm x 36mm,
cuts on down stroke



420-132 FOMON Rasp,
8½" (21.6cm), double-ended,
fine and coarse sides, 7mm x 35mm,
cuts on down stroke

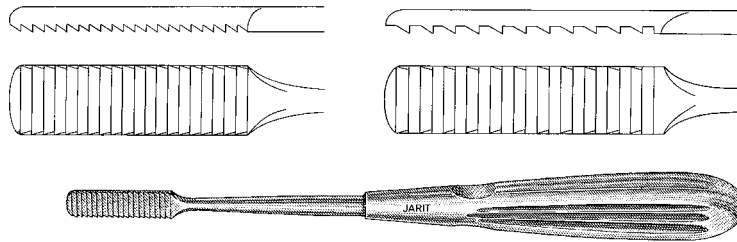
420-135 **MALTZ** Rasp,
6½" (16.5cm), 6mm x 36mm,
cuts on down stroke

420-136 **MALTZ-ANDERSON** Rasp,
6½" (16.5cm), 6mm x 36mm,
cuts on up stroke



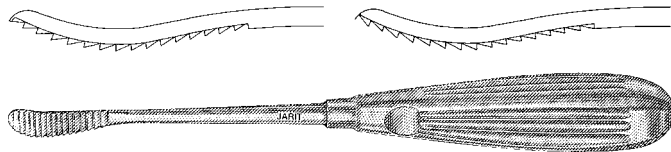
PARKES Rasps,
8" (20.3cm), 7mm x 31mm,
cuts on down stroke

420-138 20 fine concave teeth
420-139 11 extra coarse concave teeth

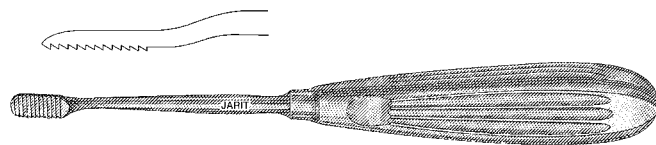


AUFRICHT Rasps,
8" (20.3cm), 8mm x 30mm

420-140 Cuts on up stroke
420-141 Cuts on down stroke

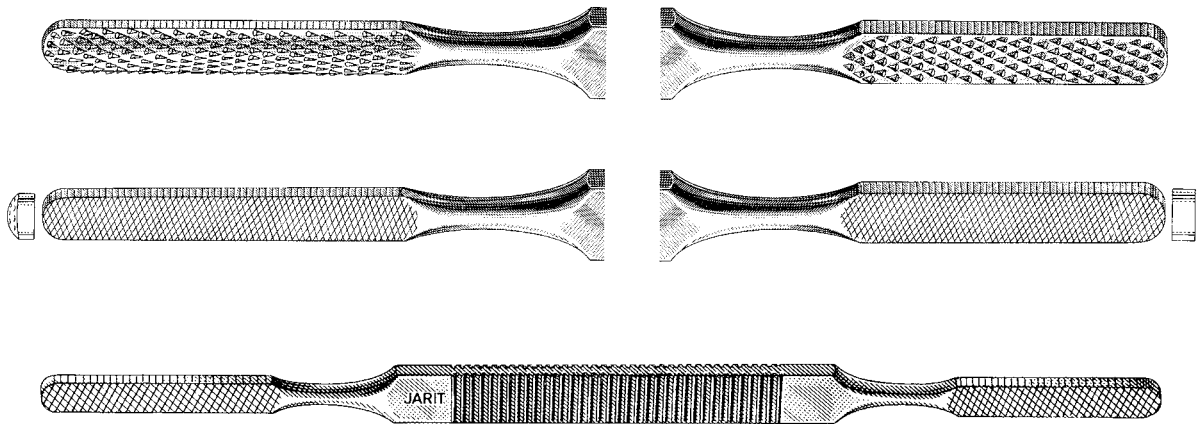
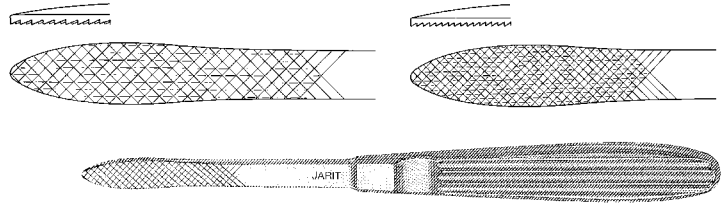


420-145 **LEWIS** Rasp,
7¼" (18.4cm), 7mm x 15mm,
cuts on down stroke



JOSEPH Rasps,
7¼" (18.4cm), 7.5mm x 40mm,
cuts on up stroke

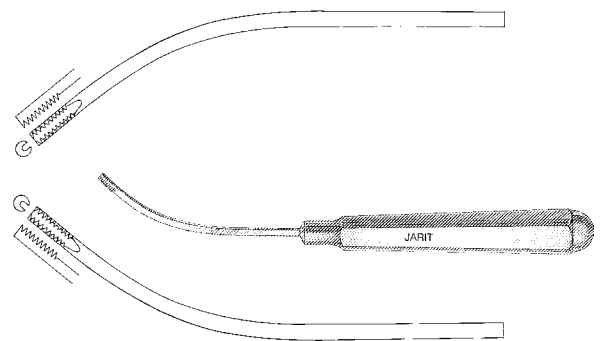
- 420-147** Coarse teeth
- 420-148** Fine teeth



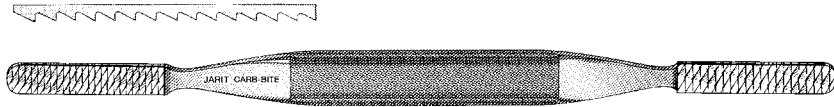
420-150 KLEINERT-KUTZ Rasp,
8¾" (22cm), double-ended,
convex coarse side and flat fine side,
7mm x 45mm, cuts on down stroke

DINGMAN Otoabraders,
6½" (15.6cm), double row of 10 fine teeth

- 420-160** Curved left
- 420-161** Curved right

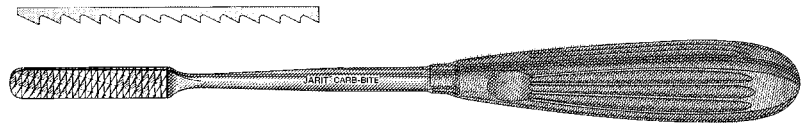


JARIT CARB-BITE Rasps,
 8¼" (21cm), double-ended,
 7mm x 40mm, cuts on down stroke

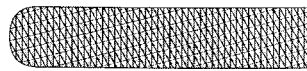


420-170	No. 1: very fine grit		No. 2: fine grit	
420-171	No. 3: fine grit		No. 4: coarse grit	
420-172	No. 5: coarse grit		No. 6: coarse grit	
420-173	No. 7: coarse grit		No. 8: very coarse grit	

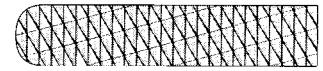
JARIT CARB-BITE Rasps,
8 1/4" (21cm), single-ended,
7mm x 40mm, cuts on down stroke



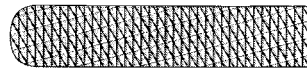
420-175 No. 1: very fine grit



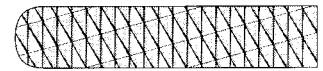
420-179 No. 5: coarse grit



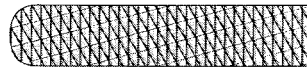
420-176 No. 2: fine grit



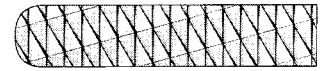
420-180 No. 6: coarse grit



420-177 No. 3: fine grit



420-181 No. 7: coarse grit



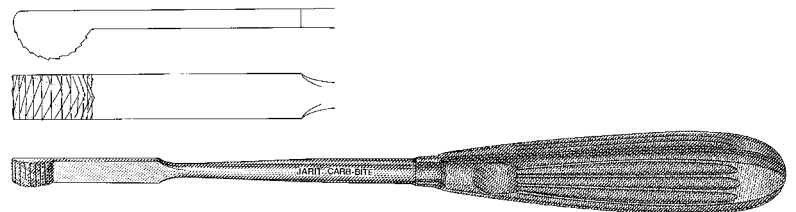
420-178 No. 4: coarse grit



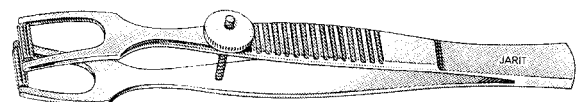
420-182 No. 8: very coarse grit



420-184 **JARIT CARB-BITE Glabella Rasp,**
8 1/4" (21cm), 5.5mm x 10mm,
cuts on down stroke

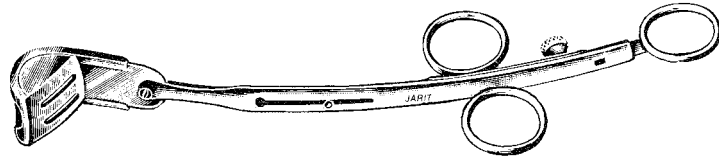


420-210 **COTTLE Columella Clamp,**
4 1/2" (11.4cm), jaw width 11mm



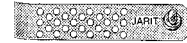
LAFORCE Adenotomes

- 430-102** Small size 1: 12mm cut, 8⁷/₈" (21.9cm)
- 430-103** Medium size 2: 16mm cut, 8⁷/₈" (22.5cm)
- 430-104** Large size 3: 18mm cut, 8⁷/₈" (22.5cm)



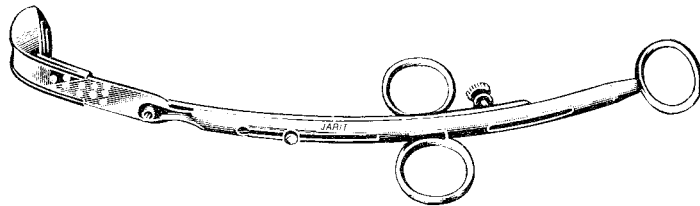
LAFORCE Adenotome Blades

- 430-105** Size 0: 11mm wide
- 430-107** Size 1: 12mm wide
- 430-108** Size 2: 16mm wide
- 430-109** Size 3: 18mm wide



SHAMBAUGH Adenotomes

- 430-120** Small size 1: 12mm cut, 8⁷/₈" (21.9cm)
- 430-121** Medium size 2: 16mm cut, 8⁷/₈" (22.5cm)
- 430-122** Large size 3: 18mm cut, 8⁷/₈" (22.5cm)



SHAMBAUGH Adenotome Blades

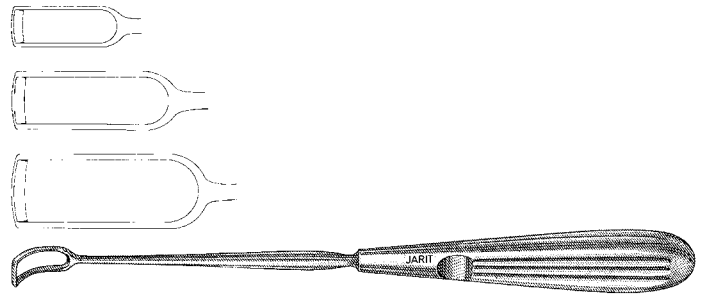
- 430-126** Size 1: 12mm wide
- 430-127** Size 2: 16mm wide
- 430-128** Size 3: 18mm wide



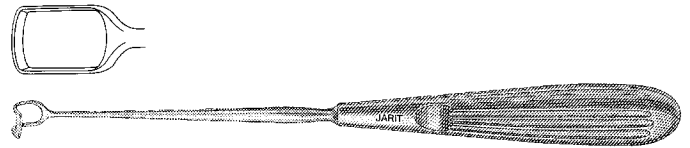
JARIT ADENOID CURETTES

JONES Adenoid Currettes

- 430-135** Infant size: 4mm cutting edge, 8 $\frac{1}{2}$ " (21.3cm)
- 430-136** Child size: 6mm cutting edge, 8 $\frac{3}{4}$ " (22.5cm)
- 430-137** Adult size: 8mm cutting edge, 9" (22.9cm)

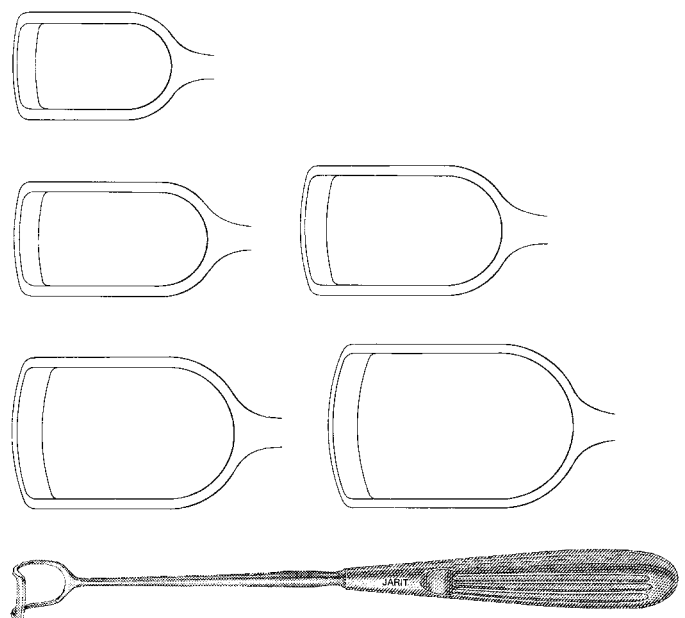


- 430-140** **VOGEL** Adenoid Curette,
8 $\frac{1}{2}$ " (21.3cm), 7mm cutting edge

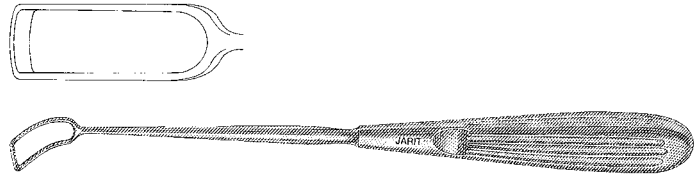


BARNHILL Adenoid Currettes,
8 $\frac{1}{2}$ " (21.6cm)

- 430-145** Size 0: 10mm cutting edge
- 430-146** Size 1: 12mm cutting edge
- 430-147** Size 2: 14mm cutting edge
- 430-148** Size 3: 16mm cutting edge
- 430-149** Size 4: 18mm cutting edge

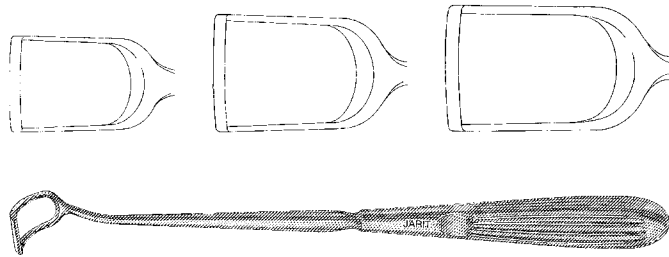


430-150 MIDDLETON Adenoid Curette,
9" (22.8cm), 7mm cutting edge



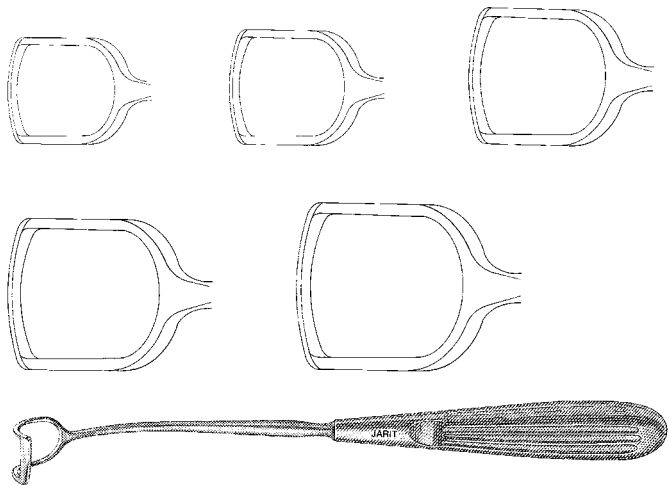
STUBBS Adenoid Currettes

430-155 Size 0: 10mm cutting edge, 8 1/4" (21cm)
430-156 Size 1: 12mm cutting edge, 8 3/4" (21.9cm)
430-157 Size 2: 14mm cutting edge, 8 3/4" (21.9cm)



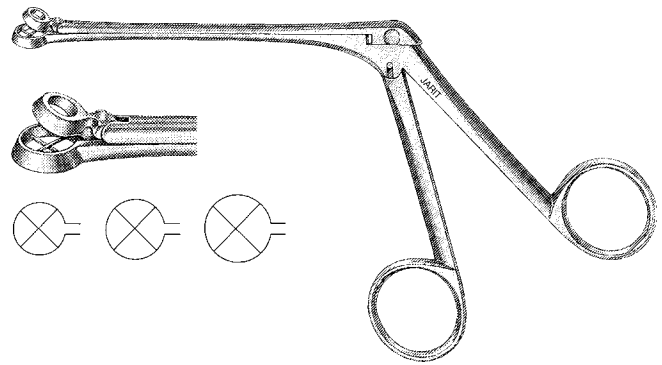
JARIT Reverse Curve Adenoid Currettes,
8 1/2" (21.6cm)

430-160 Size 0: 10mm cutting edge
430-161 Size 1: 12mm cutting edge
430-162 Size 2: 14mm cutting edge
430-163 Size 3: 16mm cutting edge
430-164 Size 4: 18mm cutting edge



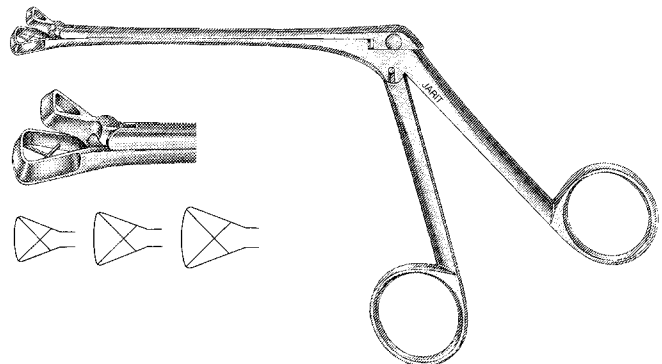
HARTMAN (MELTZER) Adenoid Punches,
5½" (14cm) shaft, round

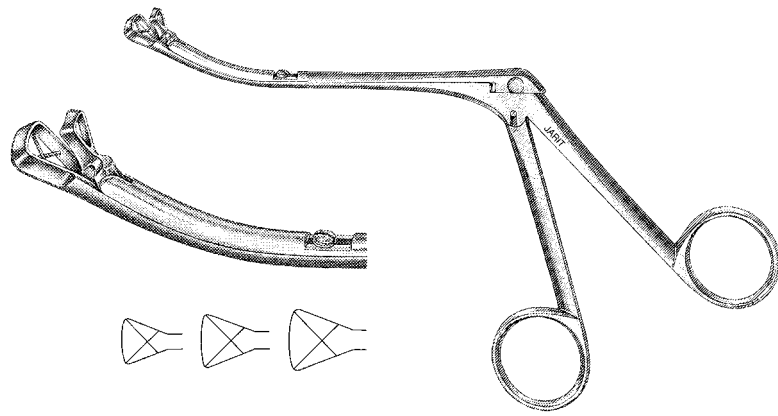
- 430-200** No. 0: 5mm bite
- 430-201** No. 1: 7mm bite
- 430-202** No. 2: 9mm bite



SCHMEDEN (MELTZER) Adenoid Punches,
5½" (14cm) shaft, triangular

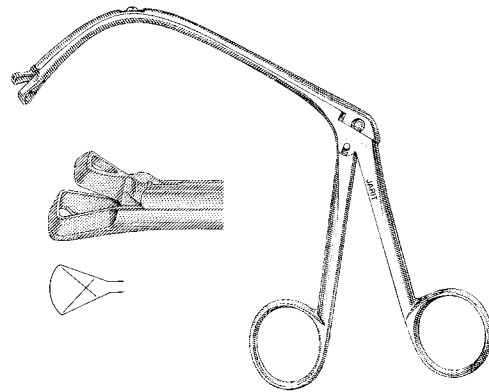
- 430-210** No. 0: 5mm bite
- 430-211** No. 1: 7mm bite
- 430-212** No. 2: 9mm bite





RONIS Adenoid Punches,
5¼" (13.3cm) shaft, up-curved,
triangular

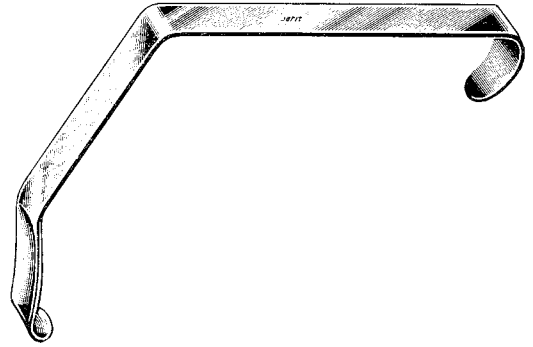
- 430-220** No. 0: 5mm bite
- 430-221** No. 1: 7mm bite
- 430-222** No. 2: 9mm bite



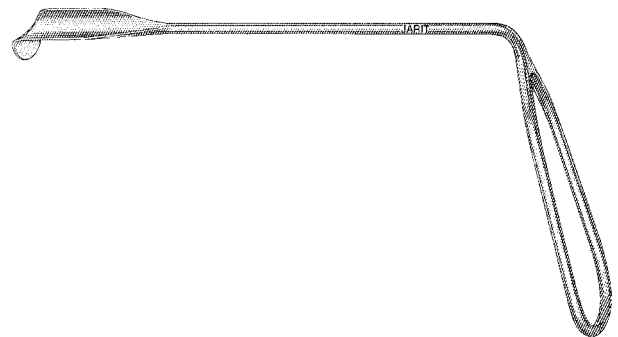
430-225 KING Adenoid Punch,
4¾" (11.1cm) shaft, down-curved,
triangular, No. 1, 7mm bite

LOVE Uvula Retractors

- 430-240** 18mm wide blade
- 430-241** 20mm wide blade
- 430-242** 22mm wide blade

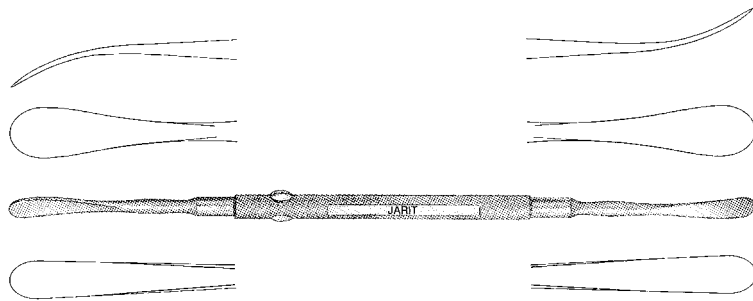


- 430-245** **LOTHROP** Uvula Retractor,
17mm x 20mm blade



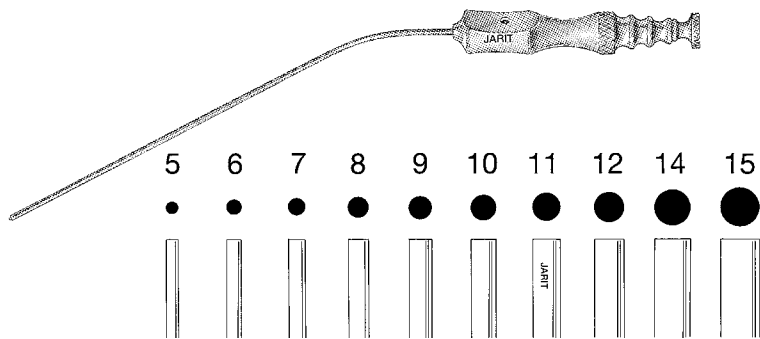
FREER Double-ended Elevators,
7 1/4" (19.7cm), sharp-blunt blades

- 285-379** 6.5mm wide blades
- 285-380** 4.5mm wide blades

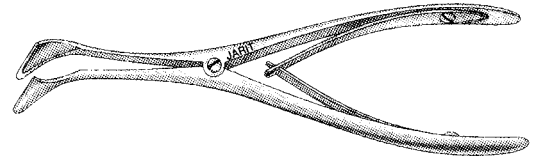


FRAZIER Suction Tubes,
7" (17.8cm), angular,
working length 4 1/4" (10.8cm)

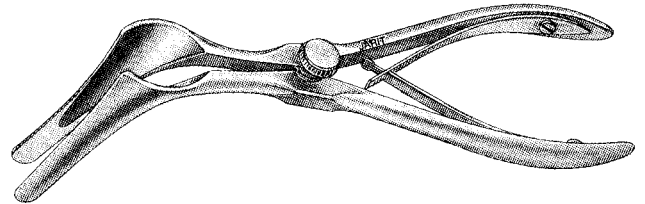
- | | |
|-------------------------|--------------------------|
| 285-449 5 French | 285-454 10 French |
| 285-450 6 French | 285-455 11 French |
| 285-451 7 French | 285-456 12 French |
| 285-452 8 French | 285-457 14 French |
| 285-453 9 French | 285-458 15 French |



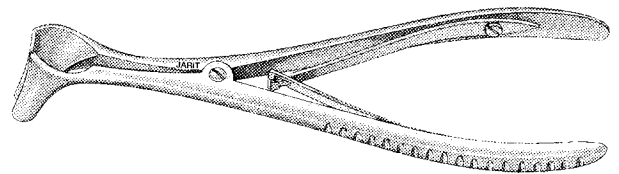
400-110 TIEK-HALLE Infant Nasal Speculum,
5¼" (13.3cm), 18mm blades



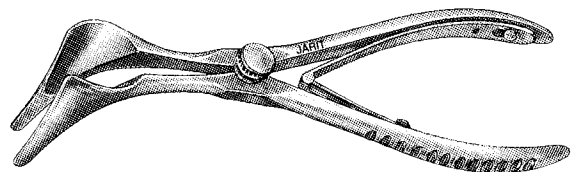
KILLIAN Septum Specula
400-130 5½" (14cm), 51mm blades
400-131 5¾" (14.5cm), 64mm blades
400-132 5" (15cm), 76mm blades
400-134 6" (15.6cm), 90mm blades



400-135 HARTMAN Nasal Speculum,
6" (15.2cm), 32mm blades



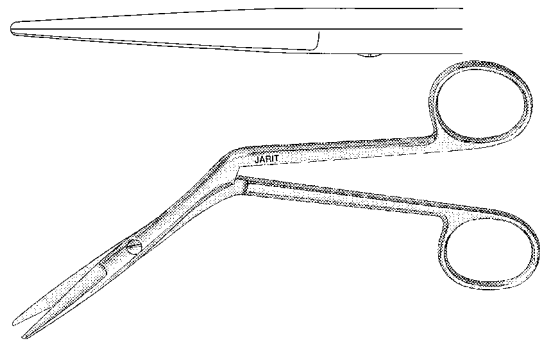
400-136 COTTLE Septum Speculum,
5½" (14cm), 50mm thin blades,
tapered to 4mm wide



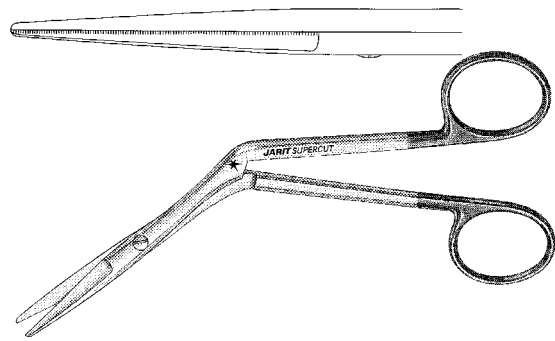


SCISSORS, ELEVATORS AND CURETTES

400-180 **KNIGHT** Nasal Scissors,
6 3/4" (17.1cm), 40mm blades



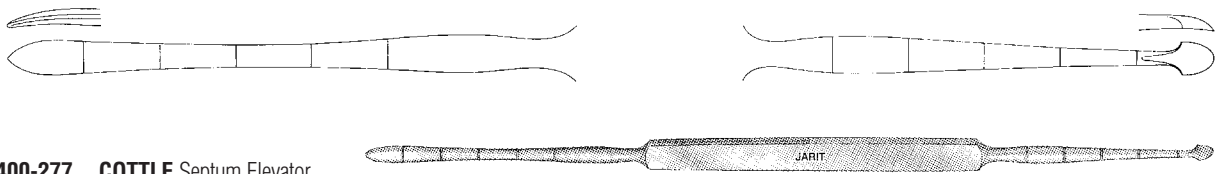
102-180 **KNIGHT SUPERCUT** Nasal Scissors,
6 3/4" (17.1cm), 40mm blades



400-273 **JARIT** Ball End Elevator (Ostium Seeker),
7 1/2" (19cm), double-ended,
2.0mm and 2.5mm diameter ball tips

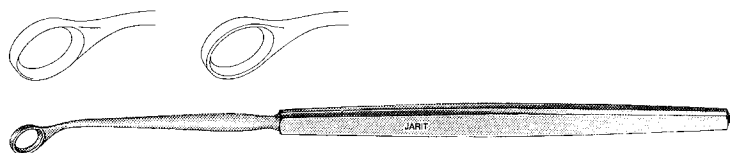


400-277 **COTTLE** Septum Elevator,
9" (22.9cm), double-ended, graduated,
4mm wide blade and 4mm wide round end



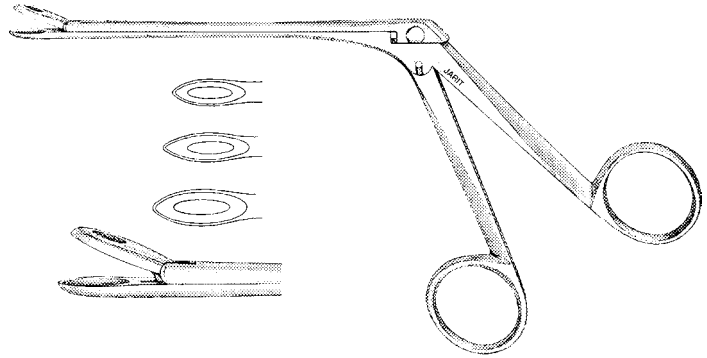
COAKLEY Curettes,
7 1/2" (19cm), 7mm x 10mm tip

400-307 Backward cutting
400-308 Forward cutting



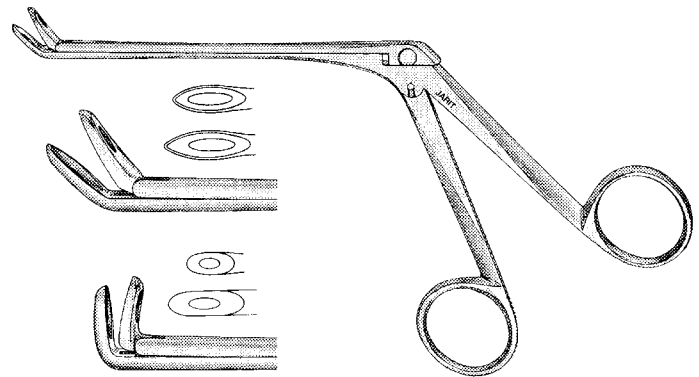
BLAKESLEY Forceps,
4" (10cm) working length,
fenestrated jaws

- 440-110** Straight, Size 0, 3.5mm jaws
- 440-114** Straight, Size 1, 4mm jaws
- 440-118** Straight, Size 2, 5mm jaws



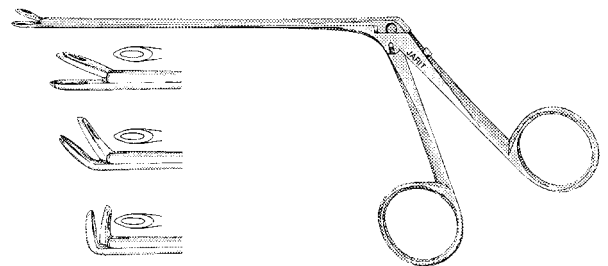
BLAKESLEY Forceps,
4" (10cm) working length,
fenestrated jaws

- 440-130** Up-angled 45°, Size 0, 3.5mm jaws
- 440-134** Up-angled 45°, Size 1, 4mm jaws
- 440-138** Up-angled 90°, Size 0, 3.5mm jaws
- 440-140** Up-angled 90°, Size 1, 4mm jaws



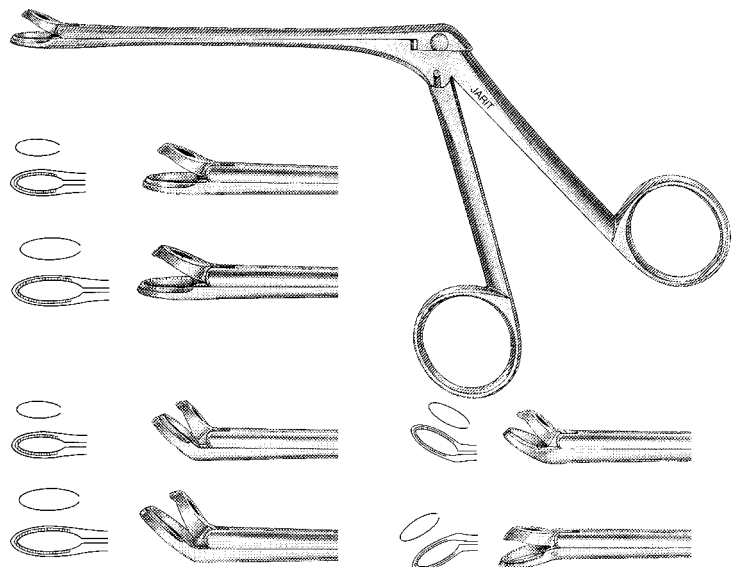
STRUEMPPEL Pediatric Forceps,
3 3/4" (9.6cm) working length,
fenestrated jaws, 2.4mm jaws

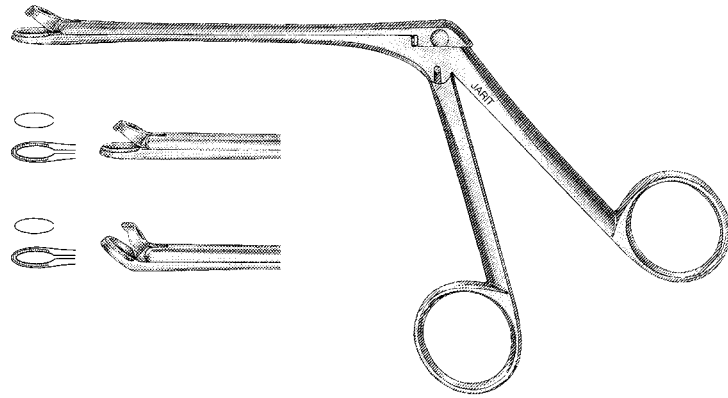
- 440-150** Straight
- 440-154** Up-angled 45°
- 440-158** Up-angled 90°



BLAKESLEY Thru-Cutting Forceps,
4" (10cm) working length

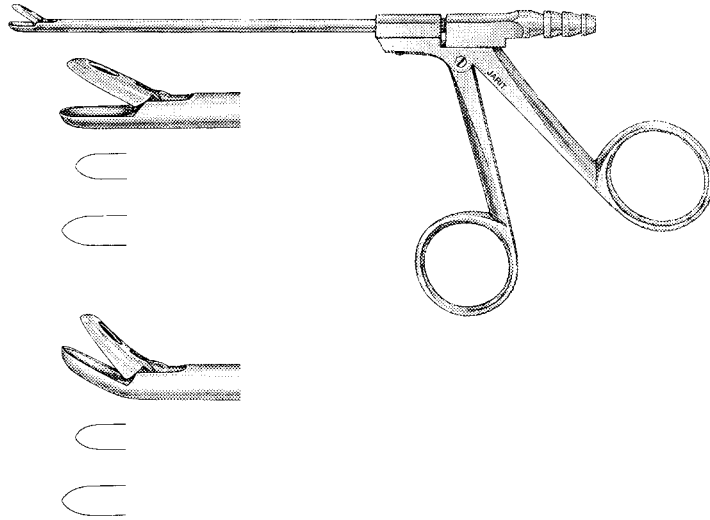
- 440-160** Straight, Size 0, 3.5mm jaws
- 440-161** Straight, Size 1, 4mm jaws
- 440-162** Up-angled 45°, Size 0, 3.5mm jaws
- 440-163** Up-angled 45°, Size 1, 4mm jaws
- 440-164** Angled right, Size 0, 3.5mm jaws
- 440-165** Angled left, Size 0, 3.5mm jaws





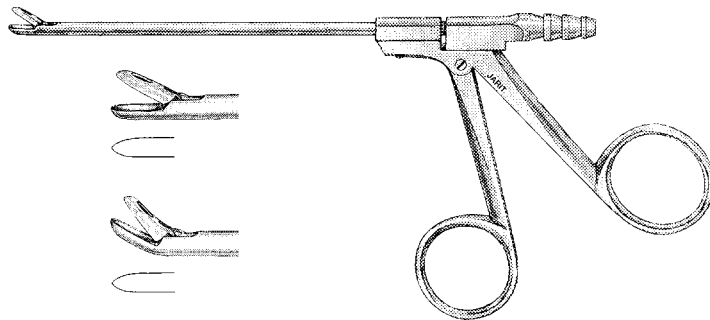
BLAKESLEY Pediatric Thru-Cutting Forceps,
4" (10cm) working length,
Size 00, 2.5mm jaws

- 440-166** Straight
- 440-167** Up-angled 45°



BLAKESLEY Suction Forceps,
4" (10cm) working length,
fenestrated jaws

- 440-174** Straight, Size 0, 3.5mm jaws
- 440-178** Straight, Size 1, 4mm jaws
- 440-184** Up-angled, Size 0, 3.5mm jaws
- 440-186** Up-angled, Size 1, 4mm jaws
- 440-532** Cleaning brush, package of 6

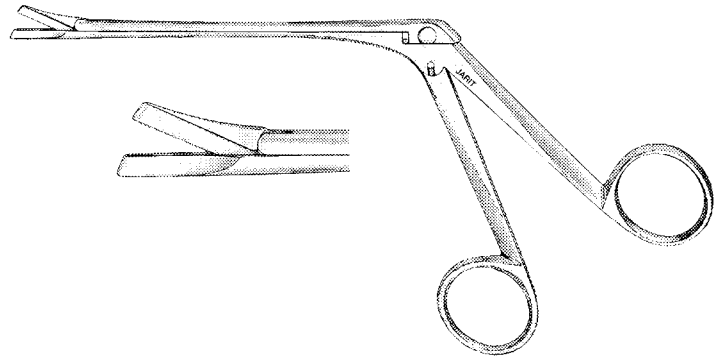
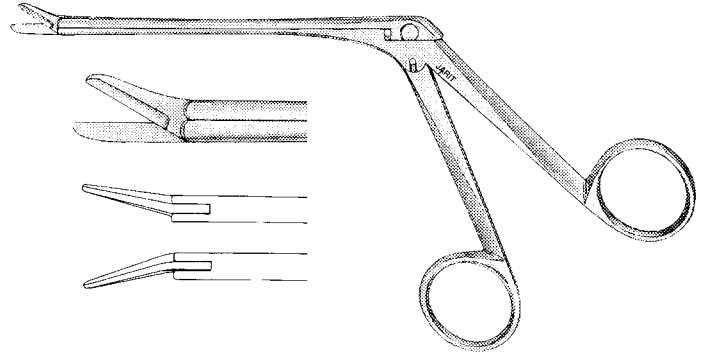


BLAKESLEY Pediatric Suction Forceps,
4" (10cm) working length,
Size 00, 2.5mm fenestrated jaws

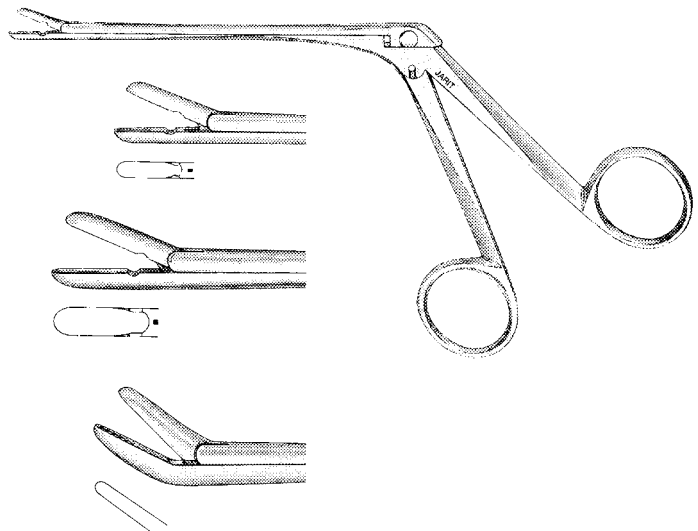
- 440-170** Straight
- 440-182** Up-angled
- 440-532** Cleaning brush, package of 6

JARIT Alligator Scissors,
4" (10cm) working length,
tapered 11mm blades

- 440-200** Straight
- 440-202** Right
- 440-204** Left

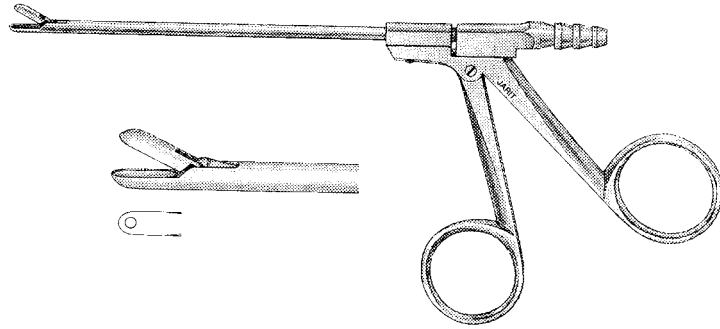


- 440-208** **STRUYCKEN** Nasal Cutting Forceps,
4" (10cm) working length, 1.5mm bite

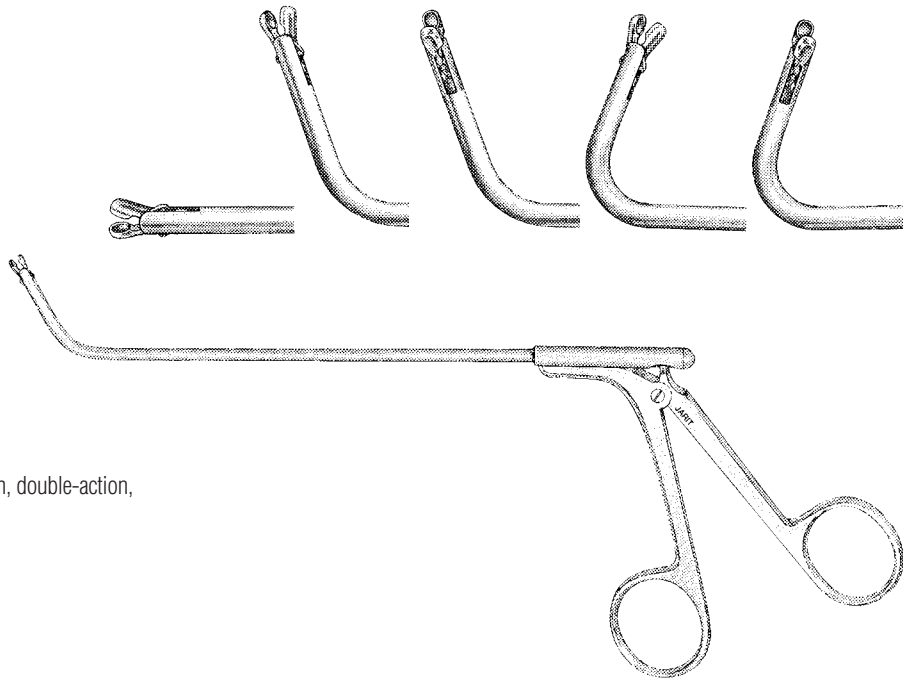


- TAKAHASHI** Forceps,
4" (10cm) working length
- 440-300** Straight, 2.5mm bite
 - 440-304** Straight, 4mm bite
 - 440-306** Up-angled, 2.5mm bite

440-308 TAKAHASHI Suction Forceps,
4" (10cm) working length,
straight 3.5mm jaws

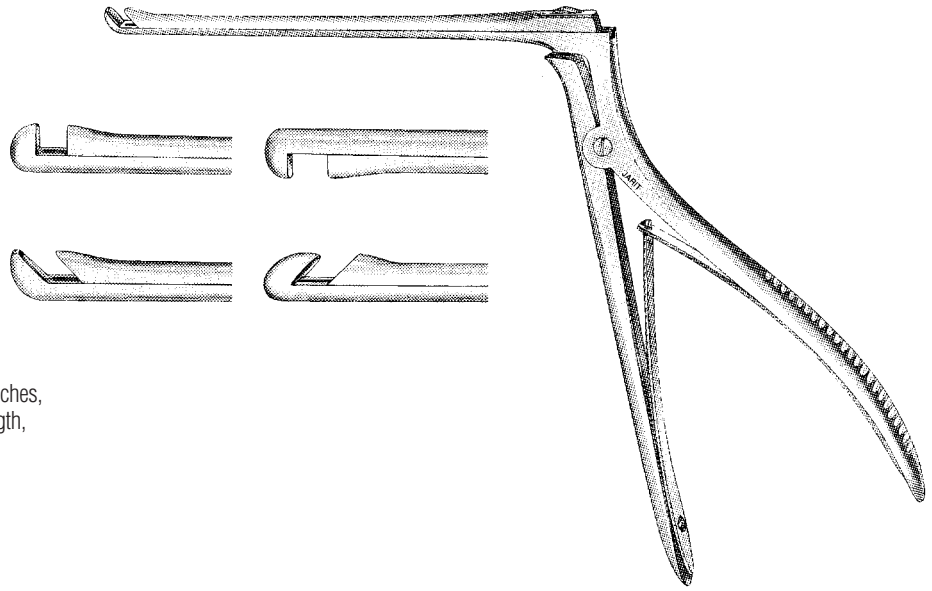


440-532 Cleaning brush, package of 6



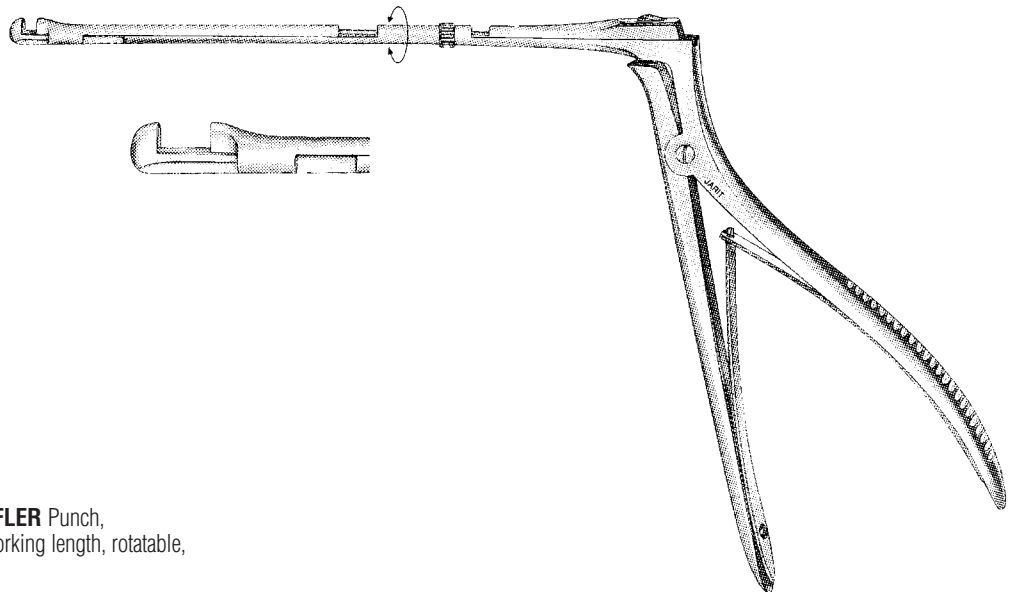
JARIT Biopsy Forceps,
5½" (13cm) working length, double-action,
3mm jaws

- 440-310** Straight
- 440-312** 70°, vertical
- 440-314** 70°, horizontal
- 440-316** 110°, vertical
- 440-318** 110°, horizontal

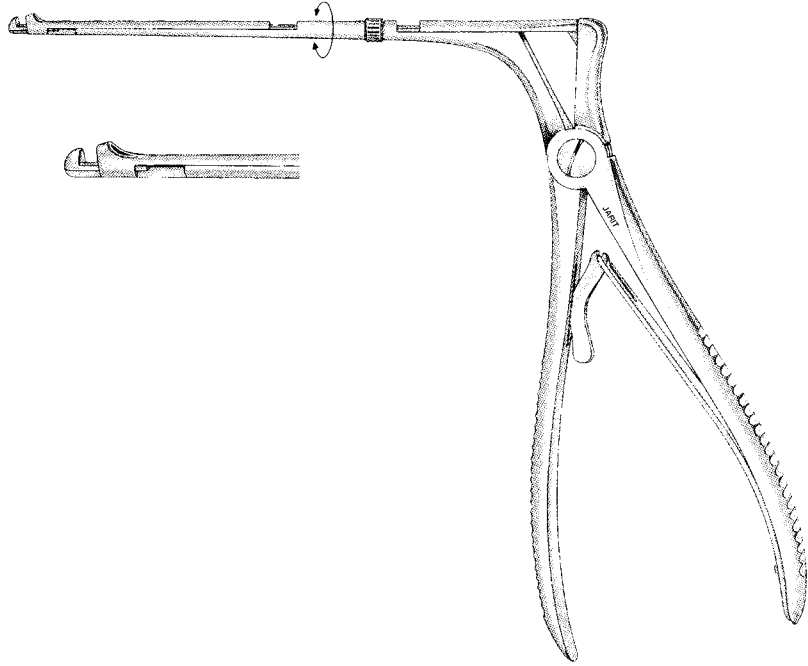


HAJEK-KOFFLER Punches,
4 $\frac{3}{8}$ " (11cm) working length,
4mm bite

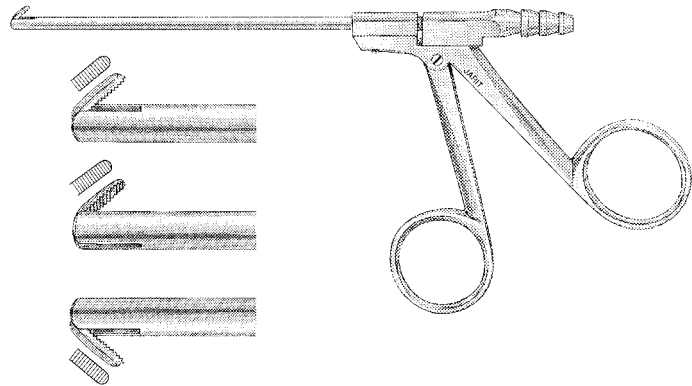
- 440-340** Upward cutting, 90°
- 440-342** Downward cutting, 90°
- 440-344** Forward cutting, 45°
- 440-346** Backward cutting, 45°



440-348 **HAJEK-KOFFLER** Punch,
4 $\frac{3}{8}$ " (11cm) working length, rotatable,
3mm bite



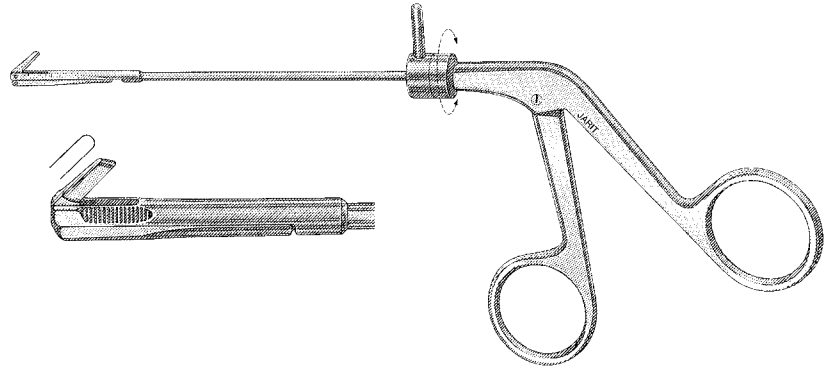
440-350 **McKENTY** Punch,
3 $\frac{3}{8}$ " (8.5cm) working length, rotatable,
2mm bite



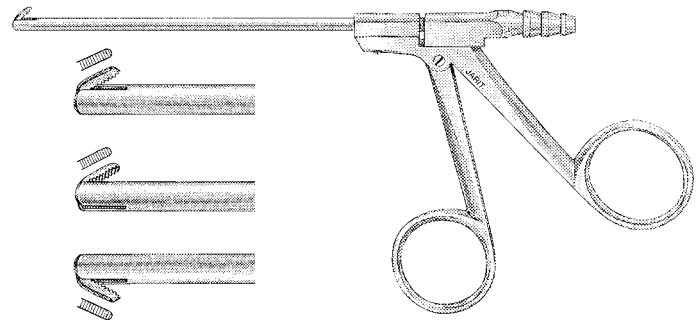
OSTRUM Antrum Suction Punches,
4" (10cm) working length,
2.5mm bite, backward cutting

- 440-360** Straight
- 440-364** Right
- 440-368** Left

440-532 Cleaning brush, package of 6



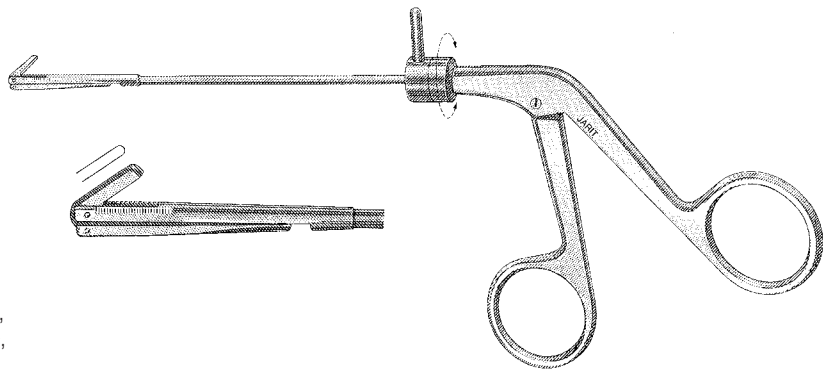
440-370 OSTRUM Antrum Punch,
4" (10cm) working length, rotatable,
adult, 2.5mm bite, backward cutting



OSTRUM Antrum Pediatric Suction Punches,
4" (10cm) working length,
2mm bite, backward cutting

- 440-372** Straight
- 440-376** Right
- 440-378** Left

440-532 Cleaning brush, package of 6



440-380 OSTRUM Antrum Pediatric Punch,
4" (10cm) working length, rotatable,
1.5mm bite, backward cutting

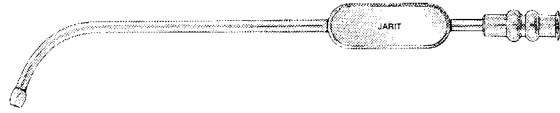


CANNULAS, CURETTES, KNIVES AND NEEDLE

VON EICKEN Suction Cannulas, 5½" (14cm)

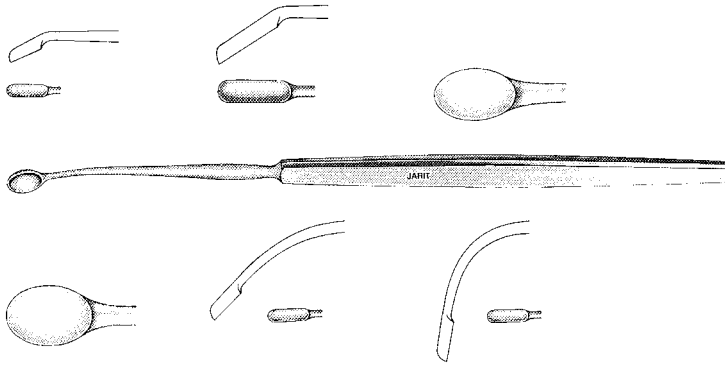
- 440-390 Curved long, 3mm
- 440-394 Curved short, 3mm
- 440-398 Curved short, 4mm

440-530 Cleaning brush, flexible, package of 6



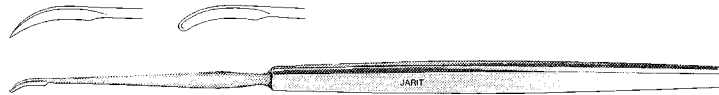
JARIT Antrum Currettes, 7½" (19cm), oblong

- 440-400 1.5 x 6mm cup
- 440-402 3.7 x 9.5mm cup
- 440-404 7 x 11mm cup
- 440-406 8 x 11mm cup
- 440-407 45°, 2 x 5mm cup
- 440-408 90°, 2 x 5mm cup

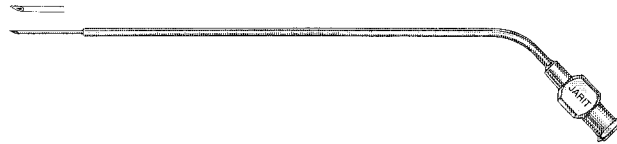


JARIT Sickle Knives, 7½" (19cm)

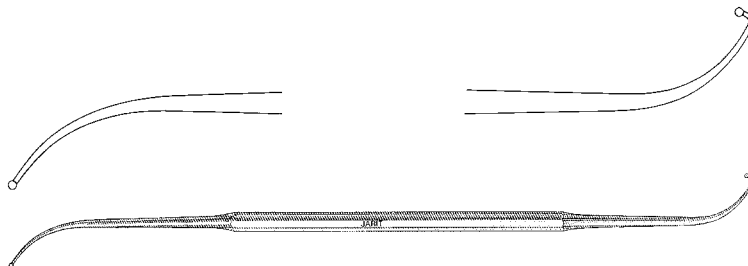
- 440-410 Pointed tip
- 440-412 Blunt tip



440-416 JARIT Septum Needle,
5½" (13cm) overall length, angled,
23 gauge, ½" (13mm) needle length

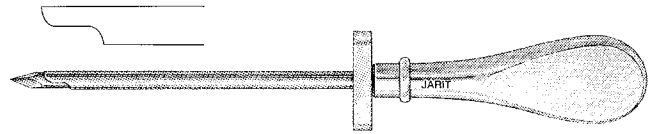


440-420 JARIT Ostium Seeker Frontal,
8" (20.3cm), double-ended,
one end 90° to shaft



JARIT CANNULA, TROCAR, TRAY AND SINUSCOPES

440-430 JARIT Cannula and Trocar, 3½" (9cm), 5mm wide



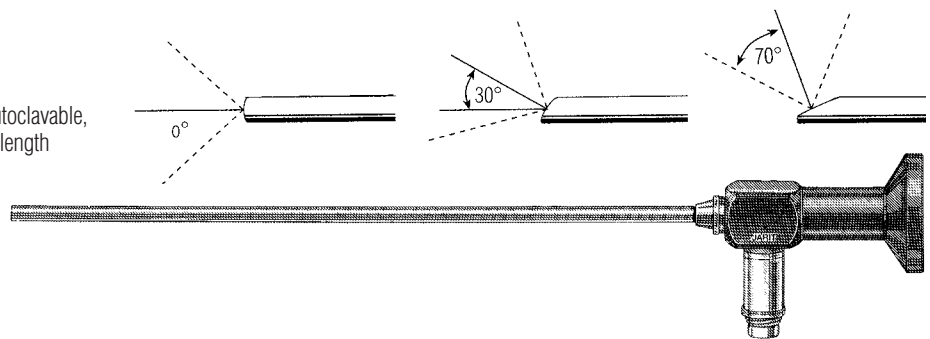
440-510 JARIT Sterilization Tray for Sinusscopes, 6" x 15¼" x 3½" (15.2 x 38.7 x 8.9cm), holds two sinusscopes

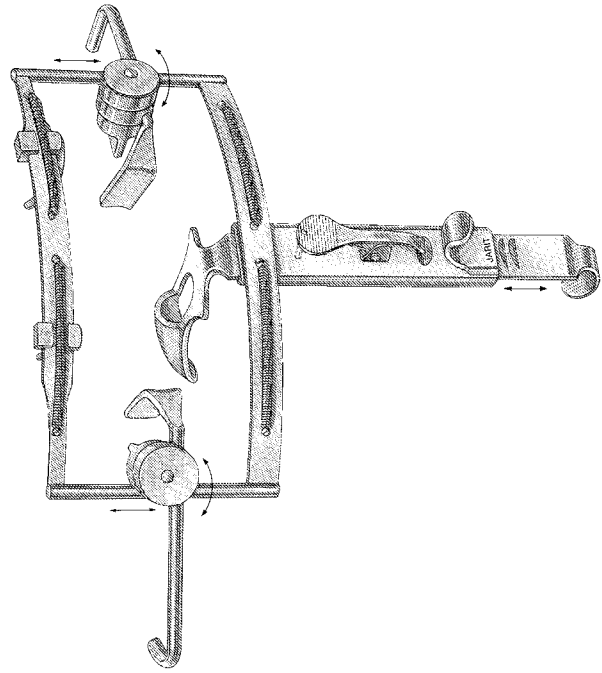


JARIT Sinusscopes, autoclavable, 6½" (17.5cm) working length

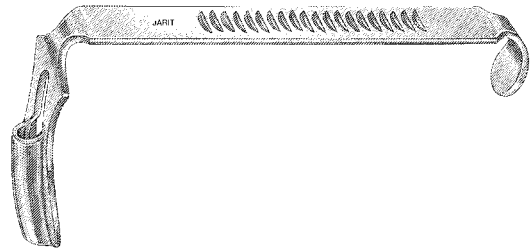
- 440-700** 4mm, 0°
- 440-730** 4mm, 30°
- 440-770** 4mm, 70°

- 440-720** 2.7mm, 0°
- 440-740** 2.7mm, 30°



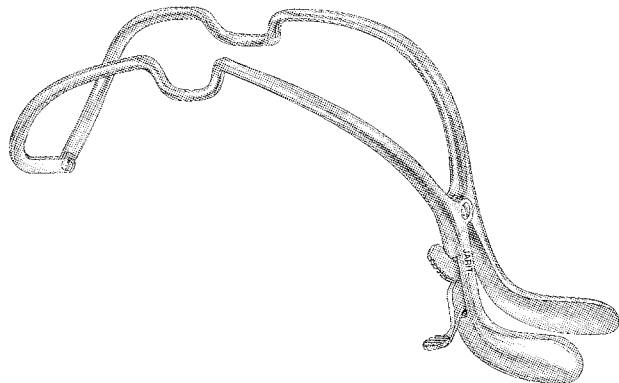


450-090 DINGMAN Mouth Gag,
complete with 3 tongue blades



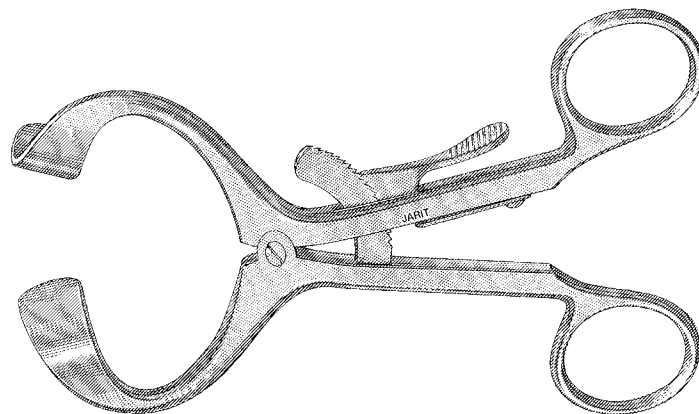
DINGMAN Tongue Blades

- 450-091** Small: 24mm x 52mm
- 450-092** Medium: 28mm x 55mm
- 450-093** Large: 30mm x 68mm



JENNINGS Mouth Gags

- 450-100** Infant size: 3½" (8.9cm) spread
- 450-101** Small size: 4" (10.2cm) spread
- 450-102** Medium size: 4½" (11.4cm) spread
- 450-103** Large size: 6" (15.2cm) spread

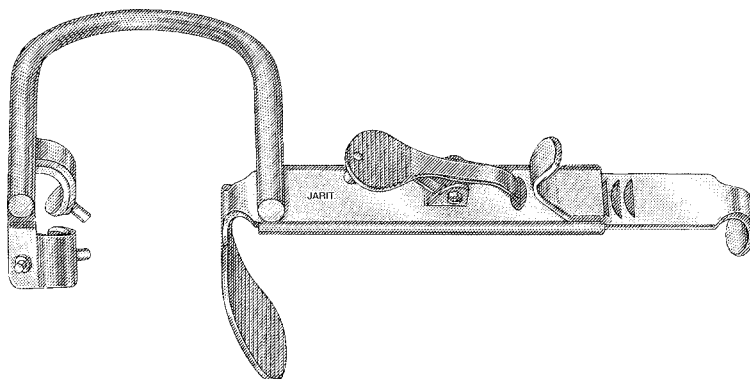


SLUDER-JANSEN Mouth Gags

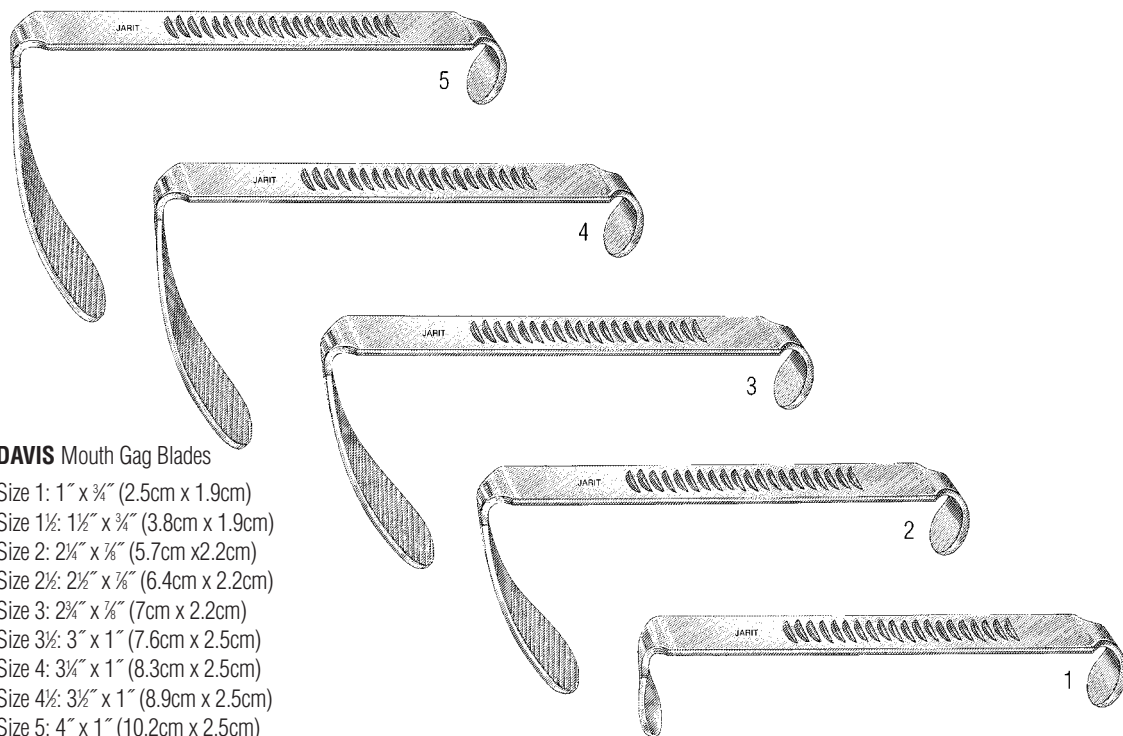
- 450-105** Child size: 4½" (11.4cm) 40mm spread
- 450-106** Adult size: 5¼" (13.3cm) 50mm spread

DAVIS Mouth Gag Frames

- 450-110** Double bite left side (illustrated)
- 450-111** Double bite right side
- 450-112** Single bite left side
- 450-113** Single bite right side



(Blades sold separately, see below)

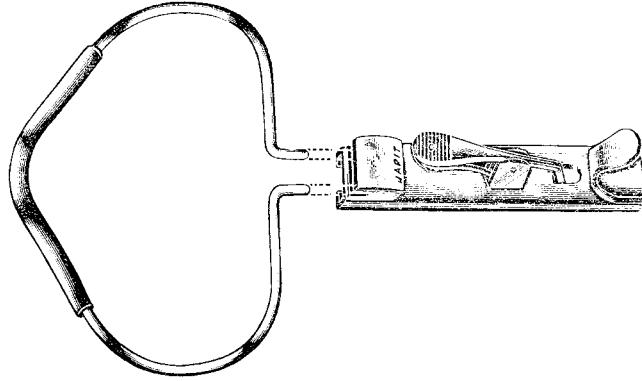


DAVIS Mouth Gag Blades

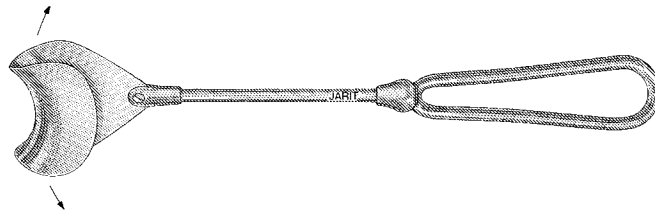
- 450-120** Size 1: 1" x ¾" (2.5cm x 1.9cm)
- 450-121** Size 1½: 1½" x ¾" (3.8cm x 1.9cm)
- 450-122** Size 2: 2¼" x ¾" (5.7cm x 2.2cm)
- 450-123** Size 2½: 2½" x ¾" (6.4cm x 2.2cm)
- 450-124** Size 3: 2¾" x ¾" (7cm x 2.2cm)
- 450-125** Size 3½: 3" x 1" (7.6cm x 2.5cm)
- 450-126** Size 4: 3¼" x 1" (8.3cm x 2.5cm)
- 450-127** Size 4½: 3½" x 1" (8.9cm x 2.5cm)
- 450-128** Size 5: 4" x 1" (10.2cm x 2.5cm)

McIVOR Mouth Gag

- 450-140** Complete with 3 blades
- 450-141** Frame only
- 450-142** Blade only, size 1: 1" x 2½" (2.5cm x 6.4cm)
- 450-143** Blade only, size 2: 1" x 3½" (2.5cm x 8.9cm)
- 450-144** Blade only, size 3: 1" x 4" (2.5cm x 10.2cm)

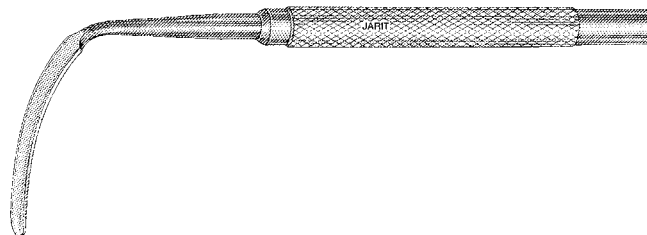


- 450-145** **JARIT** Cheek Retractor,
7¼" (19.7cm), 36mm swivel blade



SEWALL Orbital Retractors,
6½" (16.5cm)

- 450-146** 7mm x 52mm blade
- 450-147** 9mm x 51mm blade
- 450-148** 11mm x 50mm blade
- 450-149** 13mm x 67mm blade

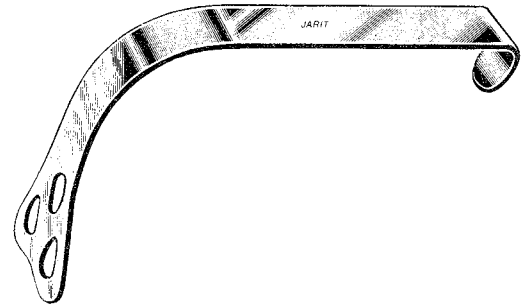




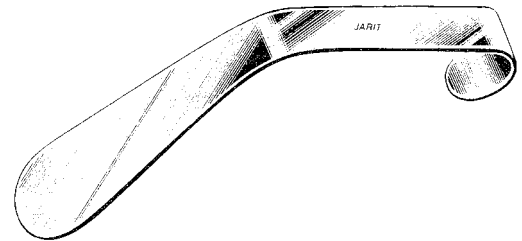
TONGUE DEPRESSORS AND MOUTH GAGS

WIEDER Tongue Depressors,
5" (12.7cm)

- 450-150** Small: 28mm blade, serrated
- 450-151** Large: 36mm blade, serrated



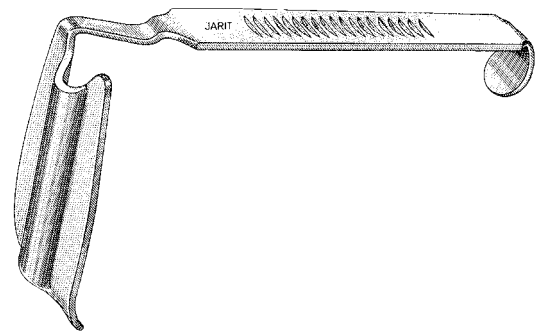
- 450-155** **ANDREW** Tongue Depressor,
4 1/2" (10.5cm), 20mm blade, serrated

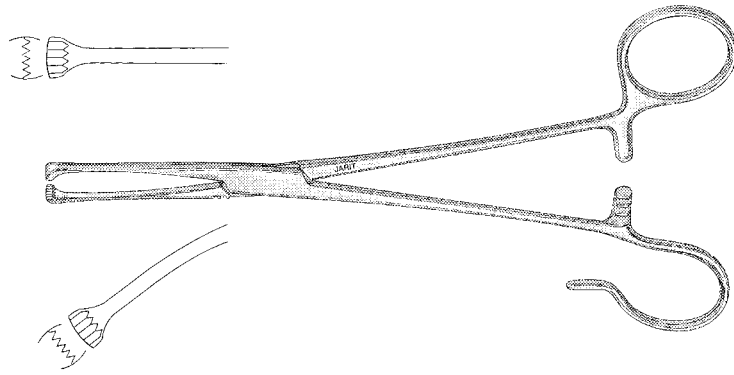


RING Retractor Blades
for Davis or McIvor Frames

- 450-160** Size 2: right, 7/8" x 2 1/4" (2.2cm x 5.7cm)
- 450-161** Size 3: right, 1 1/8" x 2 5/8" (2.9cm x 7.3cm)
- 450-162** Size 4: right, 1 1/4" x 3 1/2" (3.2cm x 8.9cm)
- 450-166** Size 5: right, 1 1/2" x 3 3/4" (3.8cm x 9.5cm)

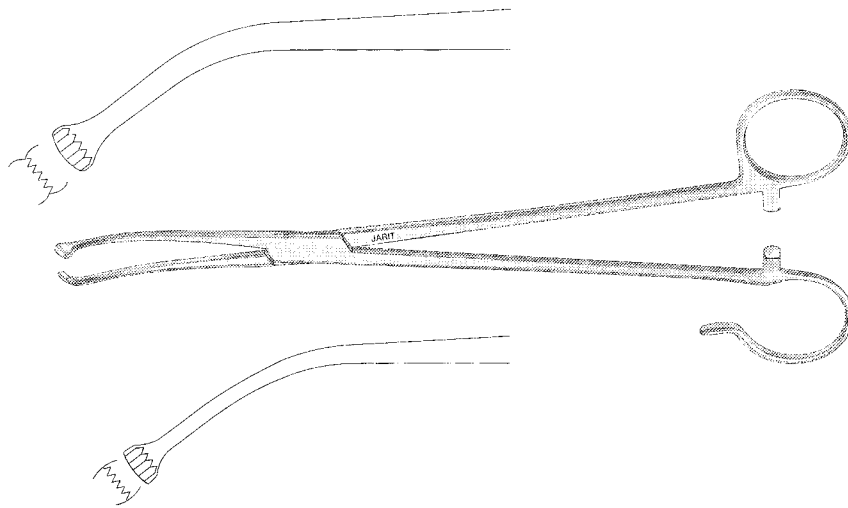
- 450-163** Size 2: left, 7/8" x 2 1/4" (2.2cm x 5.7cm)
- 450-164** Size 3: left, 1 1/8" x 2 5/8" (2.9cm x 7.3cm)
- 450-165** Size 4: left, 1 1/4" x 3 1/2" (3.2cm x 8.9cm)
- 450-167** Size 5: left, 1 1/2" x 3 3/4" (3.8cm x 9.5cm)





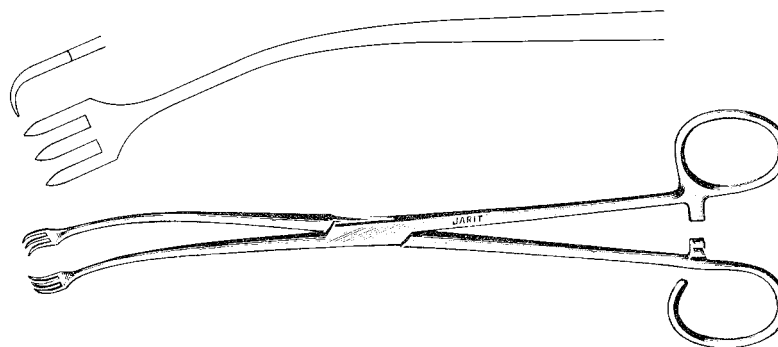
COLVER Tonsil Seizing Forceps,
7½" (19.1cm), 5.5mm jaws

- 450-200** Straight
- 450-201** Curved



WHITE Tonsil Seizing Forceps,
curved

- 450-205** 9" (22.9cm), 7mm jaws
- 450-210** 7" (17.8cm), 5.5mm jaws

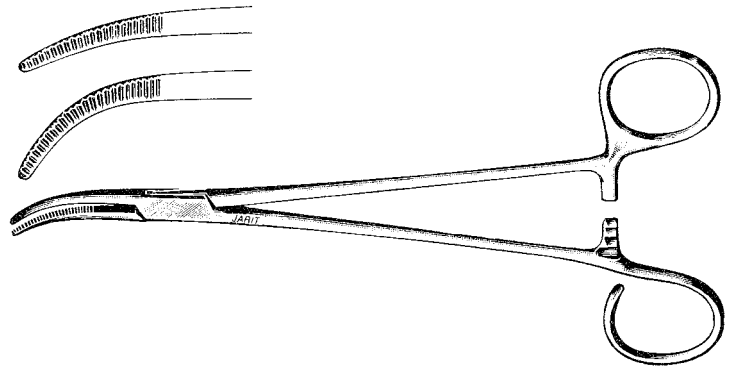


450-220 BALLENGER Tonsil Seizing Forceps,
8½" (21.6cm), 3 x 3 teeth

SCHNIDT Tonsil Forceps,
7½" (19.1cm)

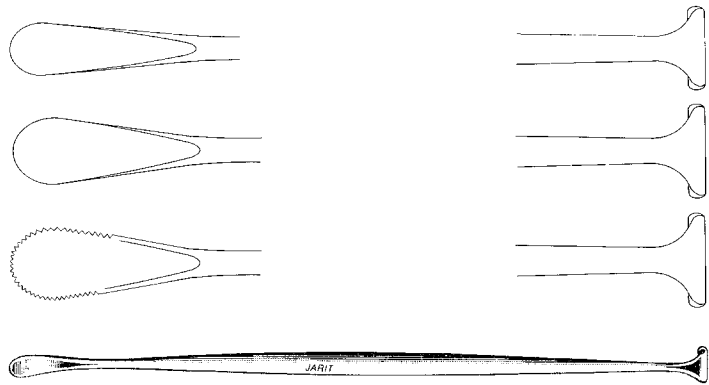
Mirror Matte

- | | | |
|----------------|----------------|----------------------------|
| 450-300 | | Half curved, one open ring |
| 450-301 | | Full curved, one open ring |
| 450-310 | 449-310 | Half curved, closed rings |
| 450-311 | | Full curved, closed rings |

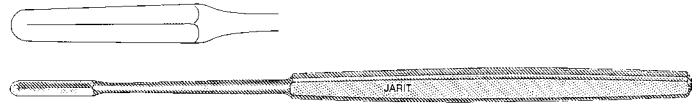


HURD Dissector and Pillar Retractors,
8 $\frac{3}{4}$ " (22.2cm)

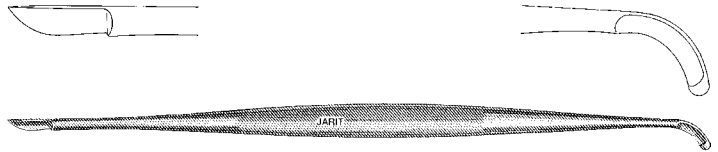
- 450-399** Small: 7mm dissector, 12mm retractor
- 450-400** Large: 9mm dissector, 13mm retractor
- 450-401** Large: 9.6mm dissector, 13mm retractor,
serrated edge



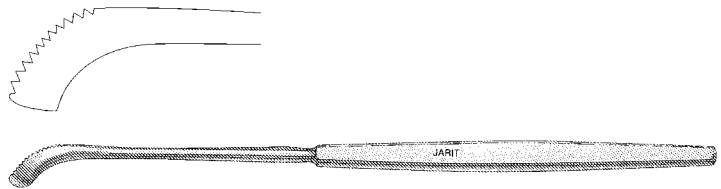
450-407 DEAN Tonsil Knife,
8¼" (21cm), straight,
25mm blunt double-edged blade



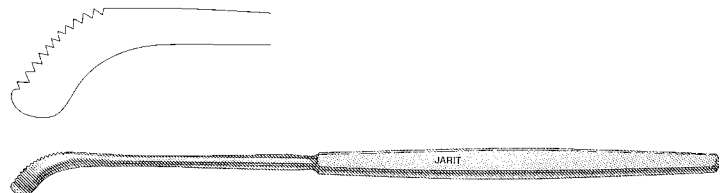
450-412 LOTHROP Tonsil Knife and Dissector,
8¼" (21cm), double-ended,
12mm bayonet shaped blade and
10mm curved blade



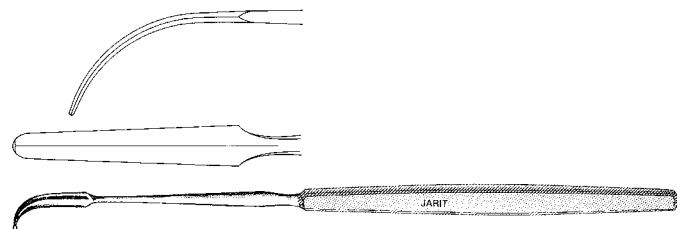
450-415 FISHER Tonsil Knife,
8¼" (21cm), 15mm curved blade,
serrated on top, straight distal tip



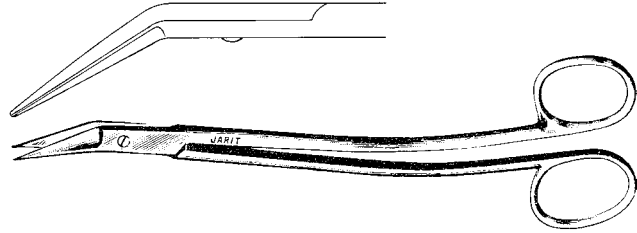
450-417 COLVER Tonsil Knife,
8¼" (21cm), 15mm curved blade,
serrated on top, rounded distal tip



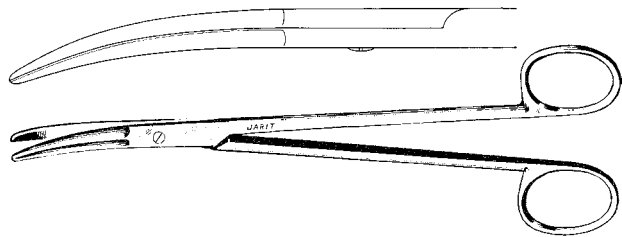
450-420 ROBB Tonsil Knife,
8¼" (21cm), 10mm sickle shaped blade



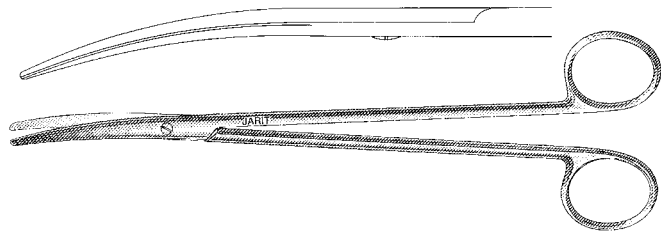
450-450 DEAN Tonsil Scissors,
7¼" (18.4cm), angled, 21mm blades,
bottom blade serrated



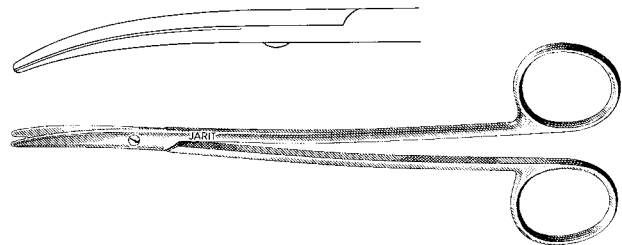
450-455 BOETTCHER Tonsil Scissors,
7¼" (18.4cm), curved, 37mm blades,
sharp outer edges



450-457 LILLIE Tonsil Scissors,
8" (20.3cm), curved, 40mm blades

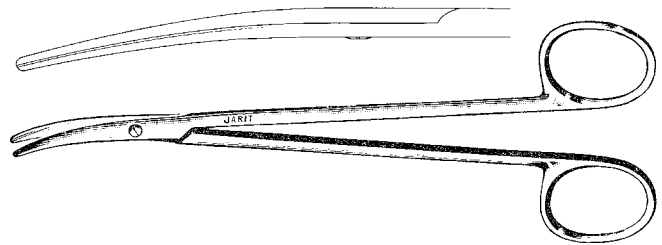


450-460 BOYD Tonsil Scissors,
7" (17.8cm), double curved, 30mm blades



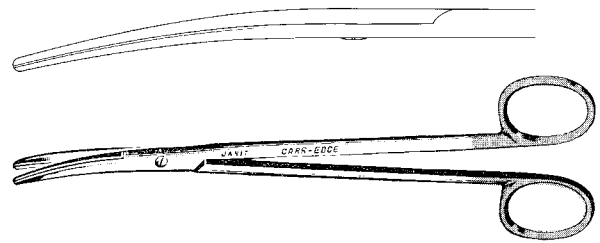
METZENBAUM Scissors,
curved

- 100-262** 7" (17.8cm), 33mm blades
- 100-266** 8" (20.3cm), 42mm blades



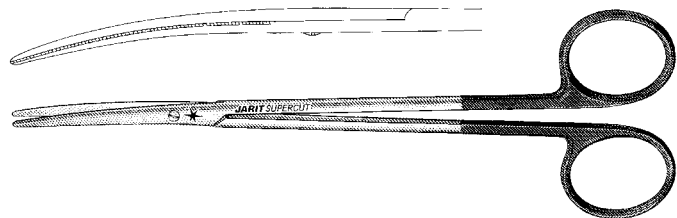
METZENBAUM CARB-EDGE Scissors,
curved

- 101-258** 7" (17.8cm), 33mm blades
- 101-265** 8" (20.3cm), 42mm blades



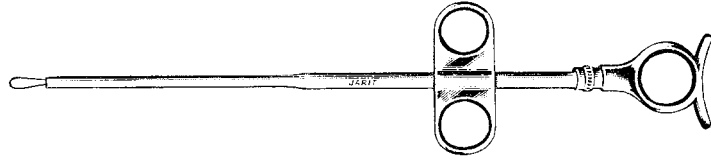
METZENBAUM SUPERCUT Scissors,
curved

- 102-122** 7" (17.8cm), 33mm blades

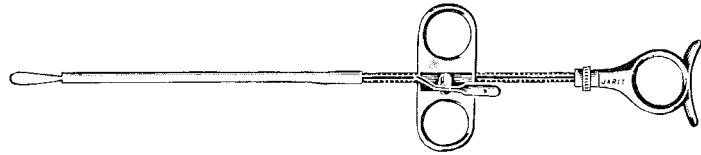


JARIT TONSIL SNARES

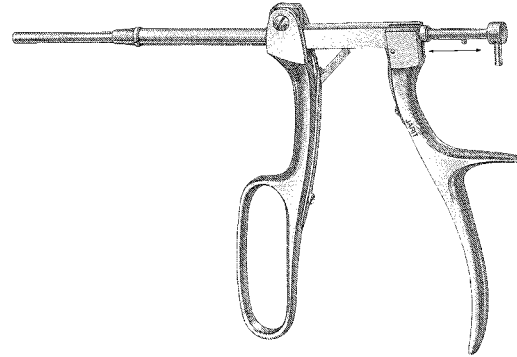
450-500 **EVE** Tonsil Snare, 11¼" (28.6cm), plain, includes 1 package of 12 snare wires, 25 gauge



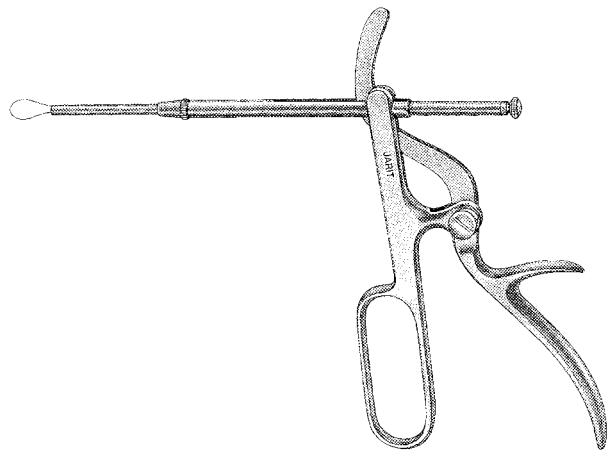
450-501 **EVE** Tonsil Snare, 11¼" (28.6cm), with ratchet, includes 1 package of 12 snare wires, 25 gauge



450-505 **SAGE** Tonsil Snare, 9" (22.8cm), includes 1 package of 12 snare wires, 25 gauge



450-510 **TYDINGS** Tonsil Snare, 7¾" (18.7cm), includes 1 package of 12 snare wires, 25 gauge

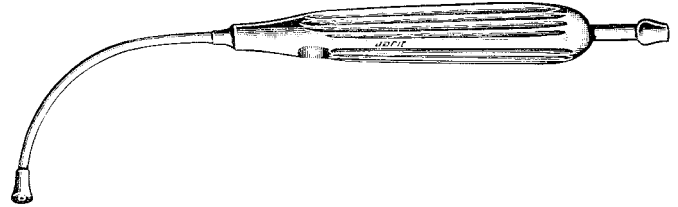


Cut Snare Wires, 4½" (11.4cm), package of 12

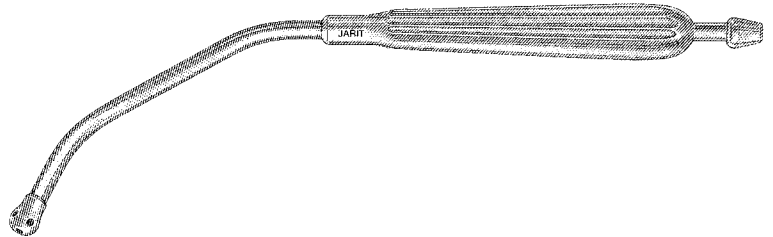
- | | |
|----------------------------------|----------------------------------|
| 450-524 30 gauge (0.30mm) | 450-527 26 gauge (0.45mm) |
| 450-525 28 gauge (0.35mm) | 450-528 25 gauge (0.50mm) |
| 450-526 27 gauge (0.40mm) | 450-529 24 gauge (0.55mm) |



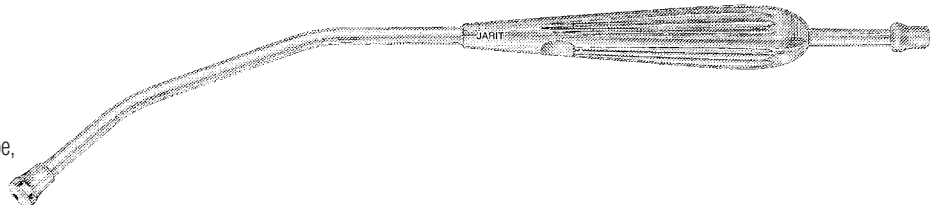
170-115 ANDREWS-PYNCHON Suction Tube,
9 $\frac{3}{4}$ " (23.8cm)



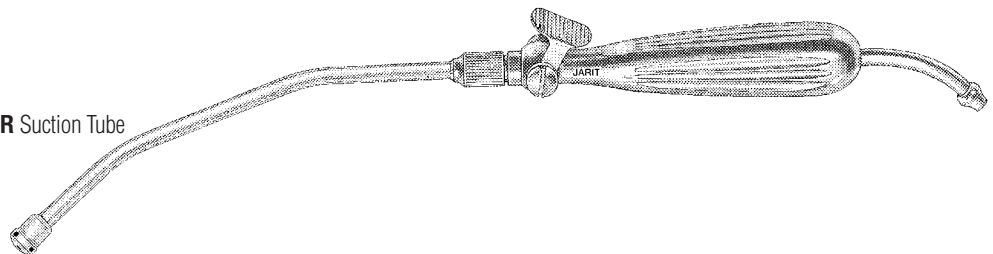
170-118 YANKAUER Suction Tube,
8 $\frac{1}{4}$ " (21cm), pediatric size



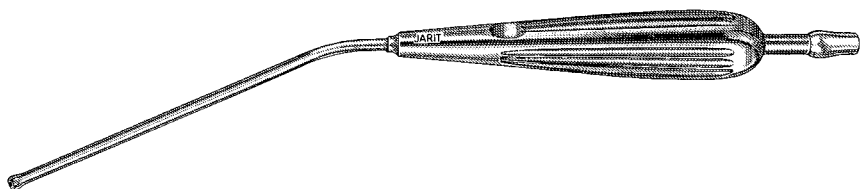
170-120 YANKAUER Suction Tube,
11 $\frac{1}{2}$ " (29.2cm)



170-122 JARIT-YANKAUER Suction Tube
with control valve,
12 $\frac{1}{2}$ " (31.8cm),
chrome plated



170-124 ANTHONY Suction Tube,
10" (25.4cm), 2mm opening

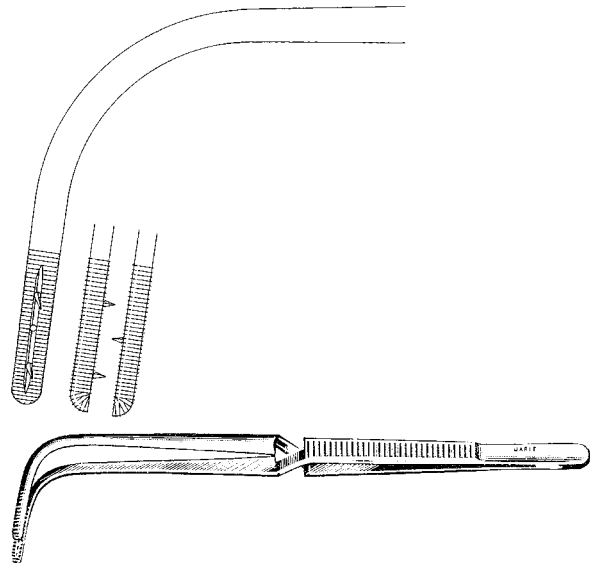
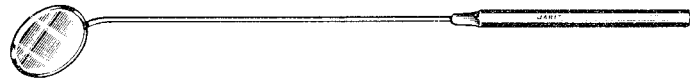




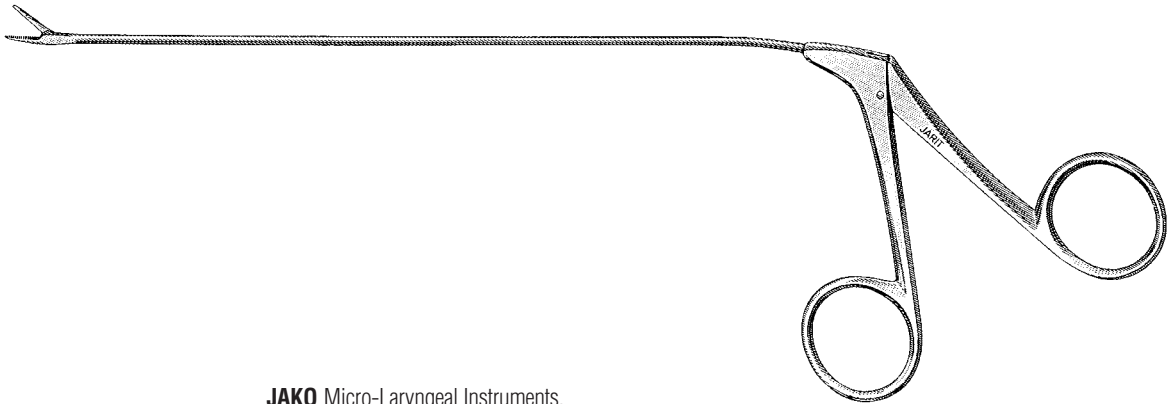
LARYNGEAL MIRRORS AND FORCEPS

Laryngeal Mirrors, threaded handle

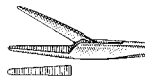
- 460-100 #00: 12mm diameter
- 460-101 #0: 14mm diameter
- 460-102 #1: 16mm diameter
- 460-103 #2: 18mm diameter
- 460-104 #3: 20mm diameter
- 460-105 #4: 22mm diameter
- 460-106 #5: 24mm diameter
- 460-107 #6: 26mm diameter
- 460-108 #7: 28mm diameter
- 460-109 #8: 30mm diameter



- 460-130 **JACKSON** Laryngeal Dressing Forceps,
9½" (24.1cm), 1 x 2 teeth, serrated jaws



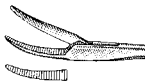
JAKO Micro-Laryngeal Instruments,
9½" (24.1cm)



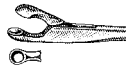
460-230 Grasping Forceps, straight,
1.5mm x 10mm jaws, serrated



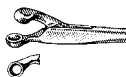
460-231 Grasping Forceps, curved left,
1.5mm x 8.5mm jaws, serrated



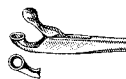
460-232 Grasping Forceps, curved right,
1.5mm x 8.5mm jaws, serrated



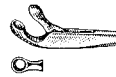
460-235 Cup Forceps, straight,
2.5mm cups



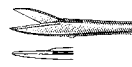
460-236 Cup Forceps, angled left,
2.5mm cups



460-237 Cup Forceps, angled right,
2.5mm cups



460-240 Cup Forceps, angled up,
2.5mm cups



460-245 Scissors, straight, vertical,
4.5mm blades



460-246 Scissors, angled up,
4.5mm blades



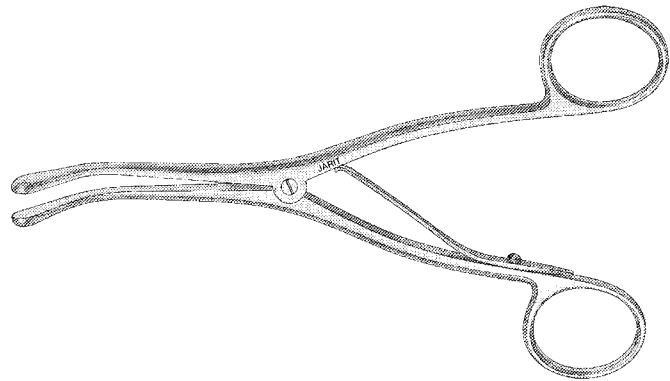
460-247 Scissors, curved left
4.5mm blades



460-248 Scissors, curved right
4.5mm blades



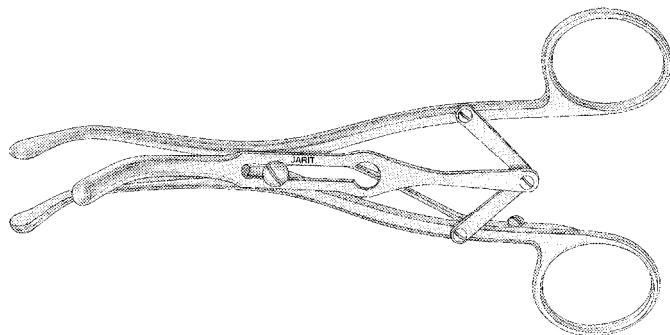
460-249 Scissors, straight, horizontal
4.5mm blades



TROUSSEAU Tracheal Dilators

460-400 Adult: 5¼" (14.6cm), jaw width 6mm

460-401 Child: 5½" (13cm), jaw width 4mm

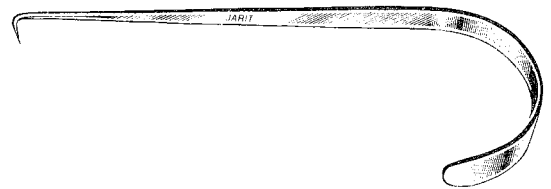


460-405 **LA BORDE** Tracheal Dilator,
5½" (14cm)



TRACHEAL HOOKS AND RETRACTORS

460-420 JACKSON Tracheal Hook,
6" (15.2cm)



460-425 JACKSON Tracheal Retractor,
7" (17.8cm), double-ended



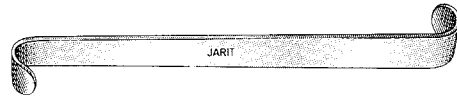
460-430 NEWS Tracheal Hook,
6" (15.2cm)





TRACHEAL RETRACTORS AND FORCEPS

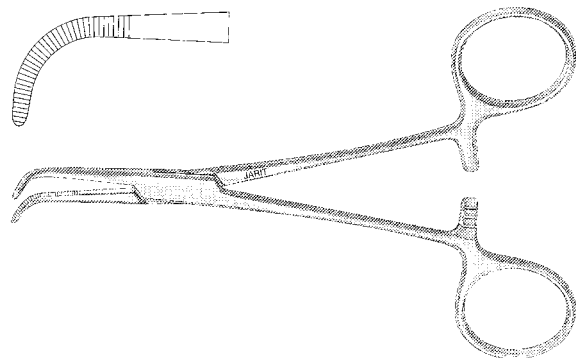
460-433 LUER Tracheal Retractor,
4 $\frac{1}{4}$ " (11.4cm), double-ended



460-435 LUKENS Thymus Retractor,
7" (17.8cm), double-ended

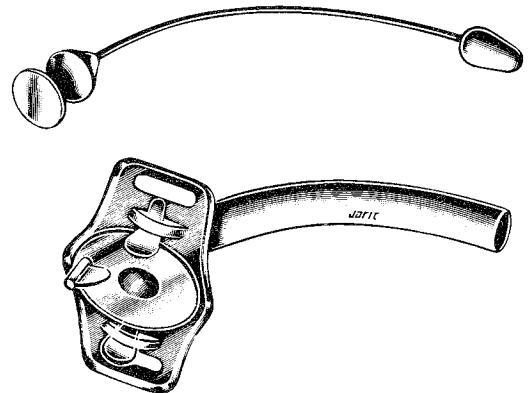


460-440 JACKSON Tracheal Hemostat,
5 $\frac{1}{2}$ " (14cm), curved



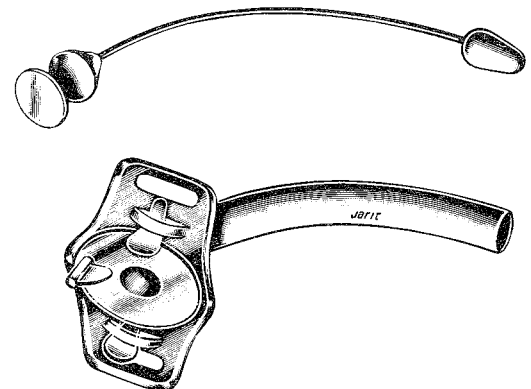
JACKSON Tracheal Tubes,
original model, sterling silver.
Length is measured on inside curve of tube.

	Tube Size	O.D. mm	Length mm
460-500	Size 3-0	4.0	33
460-501	Size 2-0	4.5	33
460-502	Size 0	5.0	38
460-503	Size 1	5.5	44
460-504	Size 2	6.0	51
460-505	Size 3	7.0	51
460-506	Size 4	8.0	58
460-507	Size 5	9.0	62
460-508	Size 6	10.0	68
460-509	Size 7	11.0	69
460-510	Size 8	12.0	69
460-511	Size 9	13.0	69
460-512	Size 10	14.0	69



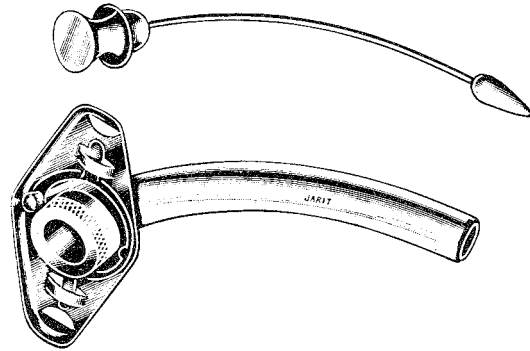
JACKSON Tracheal Tubes,
original model, stainless steel.
Length is measured on inside curve of tube.

	Tube Size	O.D. mm	Length mm
460-600	Size 2-0	4.5	33
460-601	Size 0	5.0	38
460-602	Size 1	5.5	44
460-603	Size 2	6.0	51
460-604	Size 3	7.0	51
460-605	Size 4	8.0	58
460-606	Size 5	9.0	62
460-607	Size 6	10.0	68
460-608	Size 7	11.0	69
460-609	Size 8	12.0	69
460-610	Size 9	13.0	69
460-611	Size 10	14.0	69



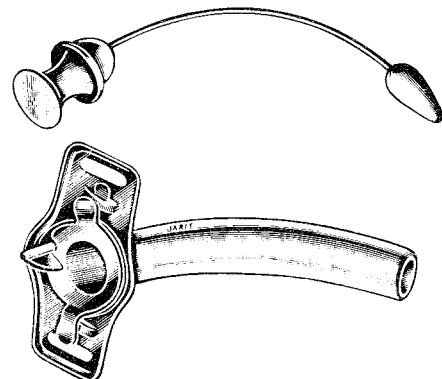
JACKSON Tracheal Tubes,
improved model, stainless steel.
Length is measured on inside curve of tube.

	Tube Size	O.D. mm	Length mm
460-620	Size 2-0	4.5	33
460-621	Size 0	5.0	38
460-622	Size 1	5.5	44
460-623	Size 2	6.0	51
460-624	Size 3	7.0	51
460-625	Size 4	8.0	58
460-626	Size 5	9.0	62
460-627	Size 6	10.0	68
460-628	Size 7	11.0	69
460-629	Size 8	12.0	69
460-630	Size 9	13.0	69
460-631	Size 10	14.0	69



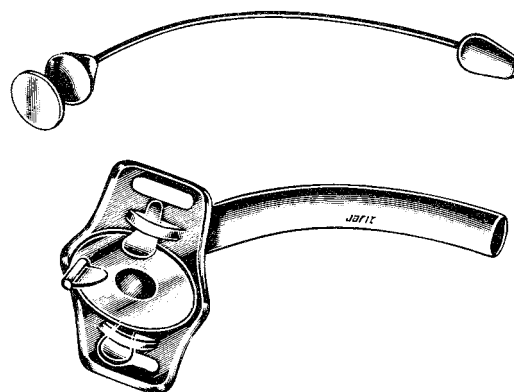
JACKSON Tracheal Tubes,
short model, stainless steel.
Length is measured on inside curve of tube.

	Tube Size	O.D. mm	Length mm
460-640	Size 2-0	4.5	33
460-641	Size 0	5.0	36
460-642	Size 1	5.5	40
460-643	Size 2	6.0	44
460-644	Size 3	7.0	48
460-645	Size 4	8.0	52
460-646	Size 5	9.0	56
460-647	Size 6	10.0	56
460-648	Size 7	11.0	56
460-649	Size 8	12.0	56
460-650	Size 9	13.0	56
460-651	Size 10	14.0	56



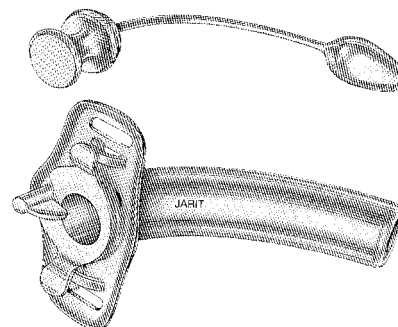
JACKSON Tracheal Tubes,
original model, silver plated.
Length is measured on inside curve of tube.

	Tube Size	O.D. mm	Length mm
460-725	Size 1	5.5	44
460-726	Size 2	6.0	51
460-727	Size 3	7.0	51
460-728	Size 4	8.0	58
460-729	Size 5	9.0	62
460-730	Size 6	10.0	68
460-731	Size 7	11.0	69
460-732	Size 8	12.0	69
460-733	Size 9	13.0	69



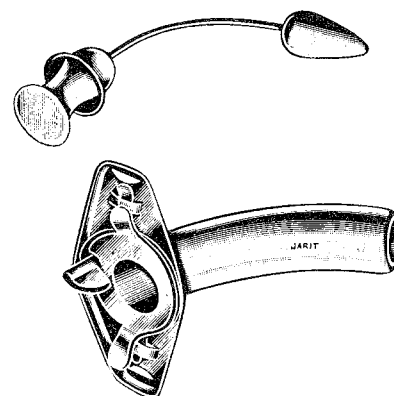
JACKSON Laryngectomy Tubes,
sterling silver.
Length is measured on inside curve of tube.

	Tube Size	O.D. mm	Length mm
460-750	Size 6	10.0	55
460-751	Size 7	11.0	55
460-752	Size 8	12.0	55
460-753	Size 9	13.0	55
460-754	Size 10	14.0	55

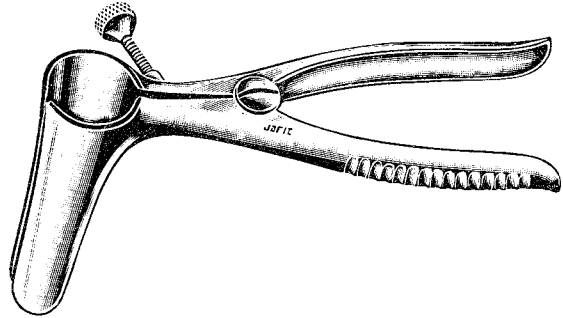


MARTIN Laryngectomy Tubes,
sterling silver.
Length is measured on inside curve of tube.

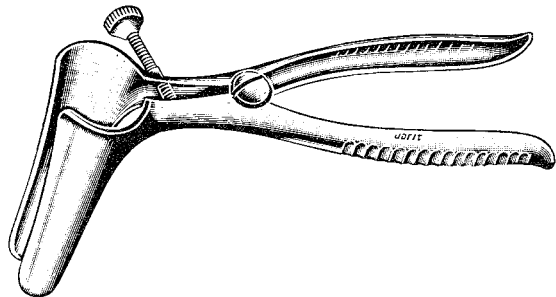
	Tube Size	O.D. mm	Length mm
460-760	Size 8	12.0	42
460-761	Size 10	14.0	42
460-762	Size 12	16.0	42



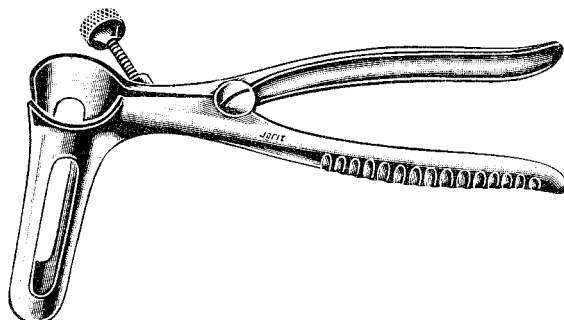
475-100 PRATT Rectal Speculum,
blades $3\frac{1}{2}$ " deep x 1" wide (8.9cm x 2.5cm),
diameter at opening $1\frac{1}{4}$ " (4.4cm)



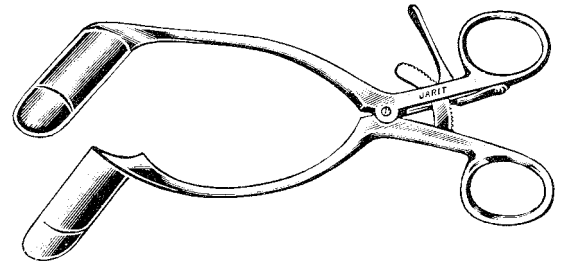
475-105 BODENHAMMER Rectal Speculum,
blades $3\frac{1}{2}$ " deep x $\frac{3}{4}$ " wide (8.9cm x 1.9cm),
diameter at opening $\frac{1}{2}$ " (2.2cm)



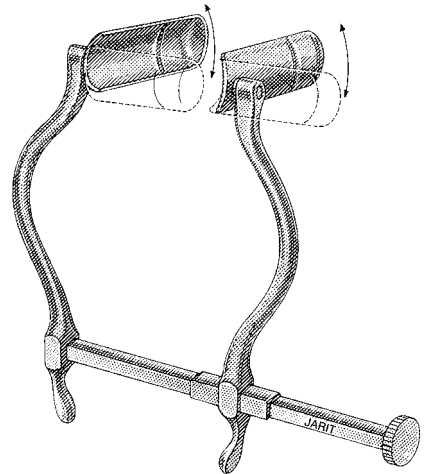
475-110 SIMS Rectal Speculum,
blades $3\frac{1}{2}$ " deep x $\frac{7}{8}$ " wide (8.9cm x 2.2cm),
diameter at opening $\frac{5}{8}$ " (1.6cm), fenestrated



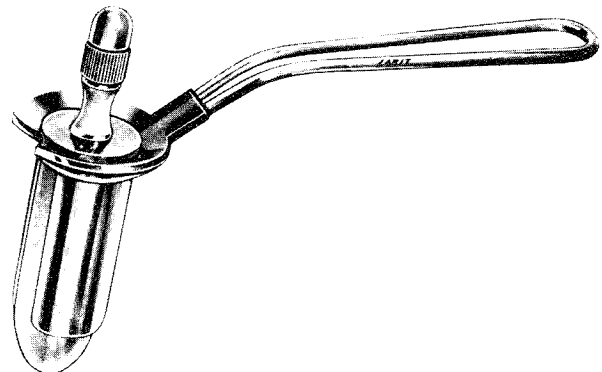
475-120 BARR Anal Retractor,
8" (20.3cm), self-retaining,
blades 2 $\frac{3}{4}$ " deep x $\frac{7}{8}$ " wide (7cm x 2.2cm)



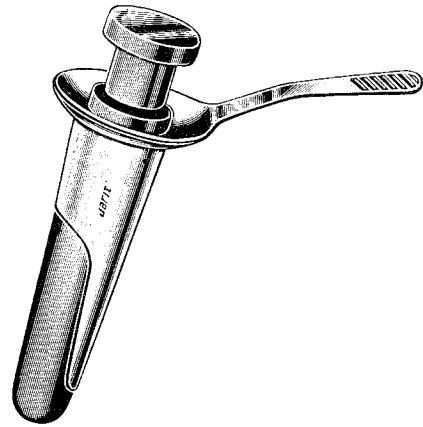
475-125 SMITH Anal Retractor,
maximum opening 4" (10.2cm),
swivel blades 2 $\frac{3}{4}$ " deep x $\frac{7}{8}$ " wide (7cm x 2.2cm)



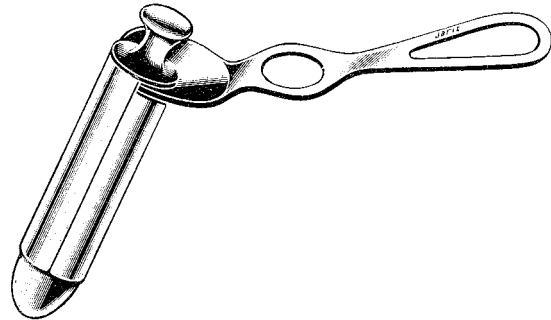
475-127 FANSLER Operating Speculum,
slotted tube, 2 $\frac{3}{8}$ " long x 1 $\frac{1}{4}$ " diameter (6cm x 3.2cm)



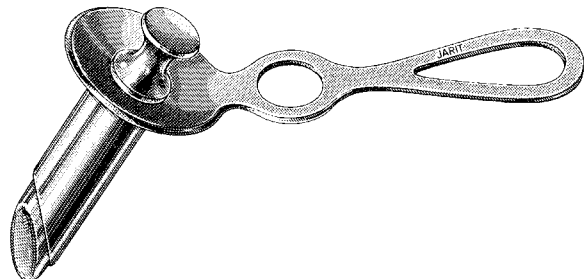
475-130 FANSLER (IVES) Rectal Speculum,
3¼" long x 1" diameter (8.3cm x 2.5cm)



CHELSEA-EATON Anal Specula,
475-140 Small: 2½" long x 7⁄8" diameter (6.4cm x 2.2cm)
475-142 Large: 2½" long x 1¼" diameter (6.4cm x 3.1cm)

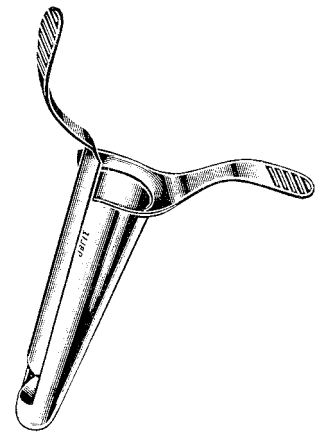


HIRSCHMAN Anoscopes,
475-150 Small: 2½" long x 5⁄8" diameter (6.4cm x 1.4cm)
475-152 Medium: 2¾" long x 11⁄16" diameter (7cm x 1.7cm)
475-155 Large: 3½" long x 7⁄8" diameter (8.9cm x 2.2cm)



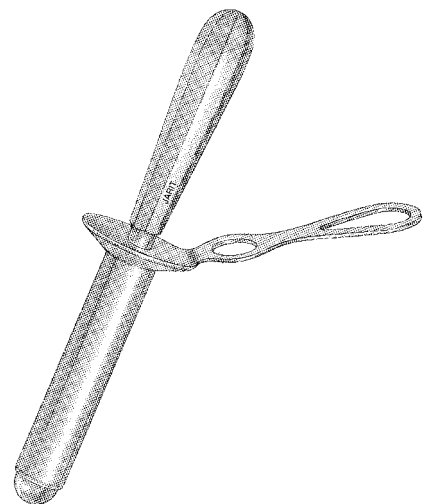
BRINKERHOFF Rectal Specula,

- 475-160** Small: 3½" long x 1" diameter (8.9cm x 2.5cm), tapering to ½" (1.3cm)
- 475-162** Medium: 4" long x 1" diameter (10.2cm x 2.5cm), tapering to ¾" (1.6cm)
- 475-165** Large: 4¾" long x 1¼" diameter (12.1cm x 3.2cm), tapering to ¾" (1.9cm)



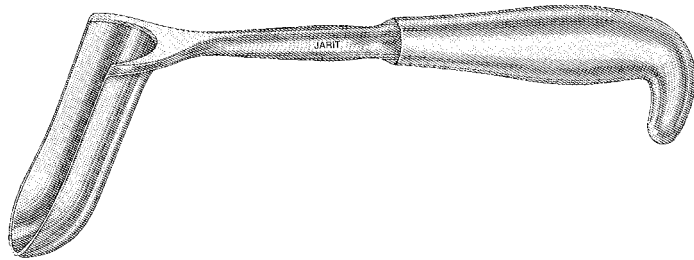
KELLY Proctoscopes,
⅜" diameter (2.2cm)

- 475-175** Small: 2" long (5.1cm)
- 475-176** Medium: 4" long (10.2cm)
- 475-177** Large: 5½" long (14cm)



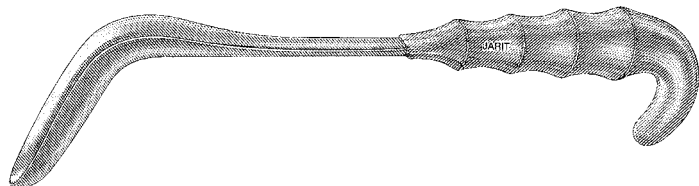
HILL-FERGUSON Rectal Retractors,

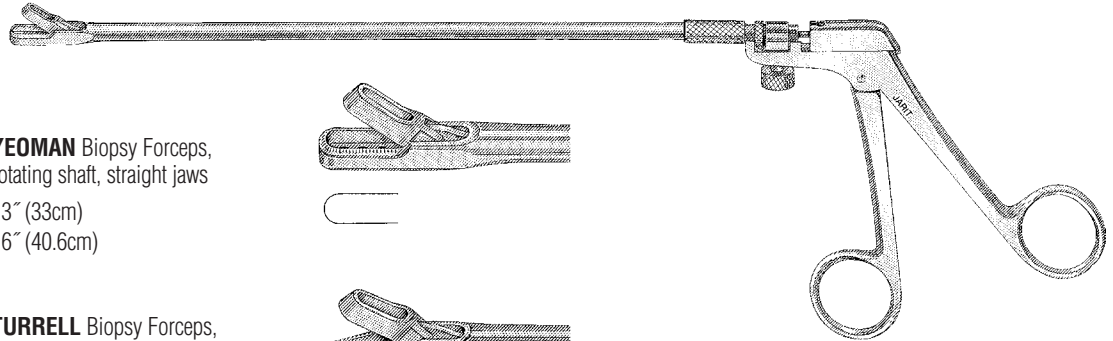
- 475-180** Small: 2½" x ¾" wide (6.7cm x 2.2cm) blade
- 475-181** Large: 3" x 1½" wide (7.6cm x 3cm) blade
- 475-182** Extra Large: 3½" x 1½" wide (7.9cm x 3.6cm) blade



SAWYER Rectal Retractors,

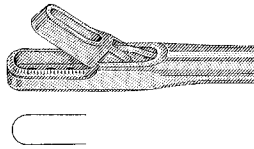
- 475-185** Small: 2½" x ¾" (6.4cm x 2.2cm) blade
- 475-186** Medium: 3" x 1¼" (7.6cm x 2.9cm) blade
- 475-187** Large: 3½" x 1½" (8.9cm x 3.8cm) blade





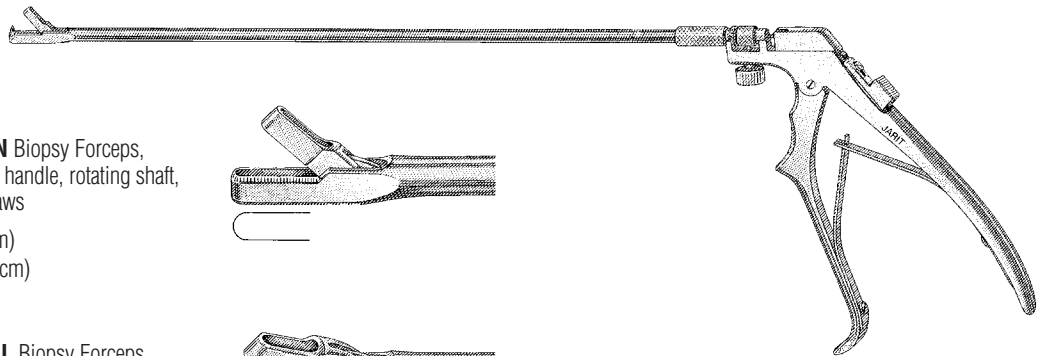
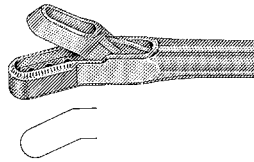
YEOMAN Biopsy Forceps,
rotating shaft, straight jaws

- 475-212** 13" (33cm)
- 475-214** 16" (40.6cm)



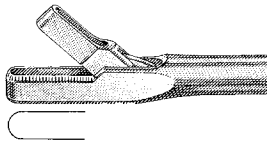
TURRELL Biopsy Forceps,
rotating shaft, angled jaws

- 475-222** 13" (33cm)
- 475-224** 16" (40.6cm)



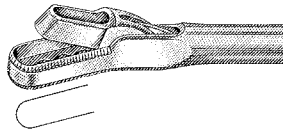
YEOMAN Biopsy Forceps,
improved handle, rotating shaft,
straight jaws

- 475-232** 13" (33cm)
- 475-234** 16" (40.6cm)



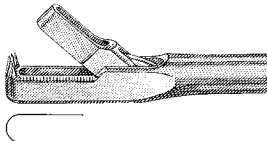
TURRELL Biopsy Forceps,
improved handle, rotating shaft,
angled jaws

- 475-242** 13" (33cm)
- 475-244** 16" (40.6cm)



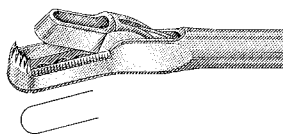
YEOMAN Biopsy Forceps,
improved handle, rotating shaft,
straight jaws with teeth

- 475-252** 13" (33cm)
- 475-254** 16" (40.6cm)



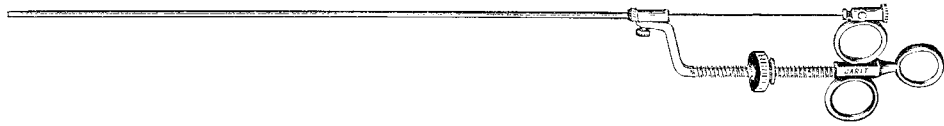
TURRELL Biopsy Forceps,
improved handle, rotating shaft,
angled jaws, with teeth

- 475-262** 13" (33cm)
- 475-264** 16" (40.6cm)



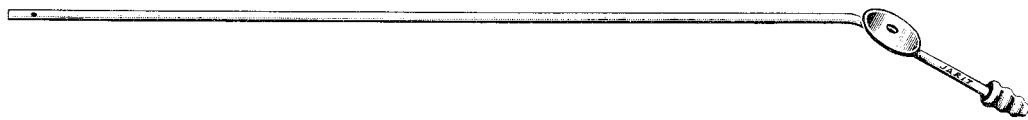


RECTAL SNARES, SUCTION TUBE AND CLAMP

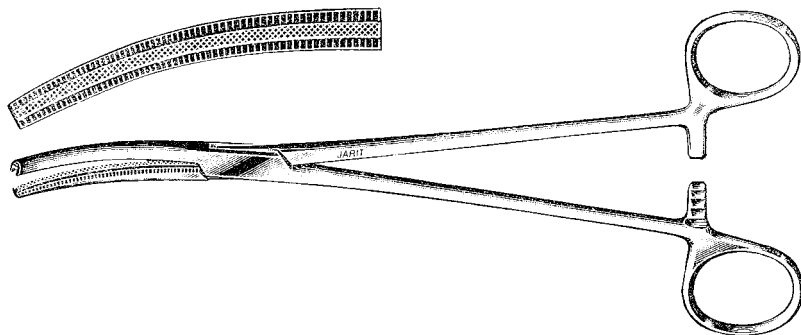


NORWOOD Rectal Snares,
includes 1 package of 12 snare wires, 24 gauge

475-301 16" (40.6cm) working length



475-310 **BUIE** Rectal Suction Tube,
16" (40.6cm) long, 12 French, with finger valve



475-320 **BUIE** Pile Clamp,
8 1/4" (21cm), curved

BUIE Fistula Probes,
5 $\frac{1}{2}$ " (13.7cm)

- 475-330 Light model
- 475-331 Heavy model



- 475-333 **BARR** Fistula Probe,
5 $\frac{1}{2}$ " (14cm), double-ended



- 475-335 **PRATT** Rectal Probe,
7 $\frac{1}{2}$ " (19.7cm), malleable, silver



- 475-337 **LARRY** Rectal Probe and Grooved Director,
6" (15.2cm) working length



- 475-340 **ROSSER** Crypt Hook,
6 $\frac{1}{2}$ " (16.8cm)



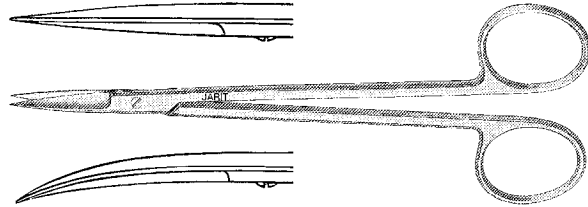
- 475-342 **STEWART** Crypt Hook,
8 $\frac{1}{2}$ " (21.6cm), hook $\frac{1}{2}$ " (2.2cm)



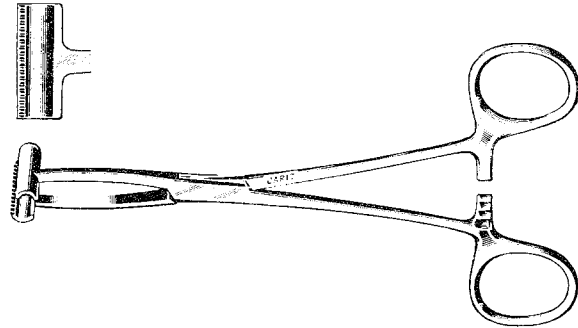
KELLY Fistula Scissors,

100-280 6¼" (16cm), straight

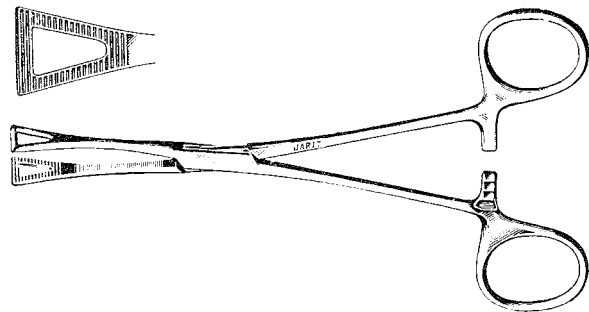
100-281 6¼" (16cm), curved

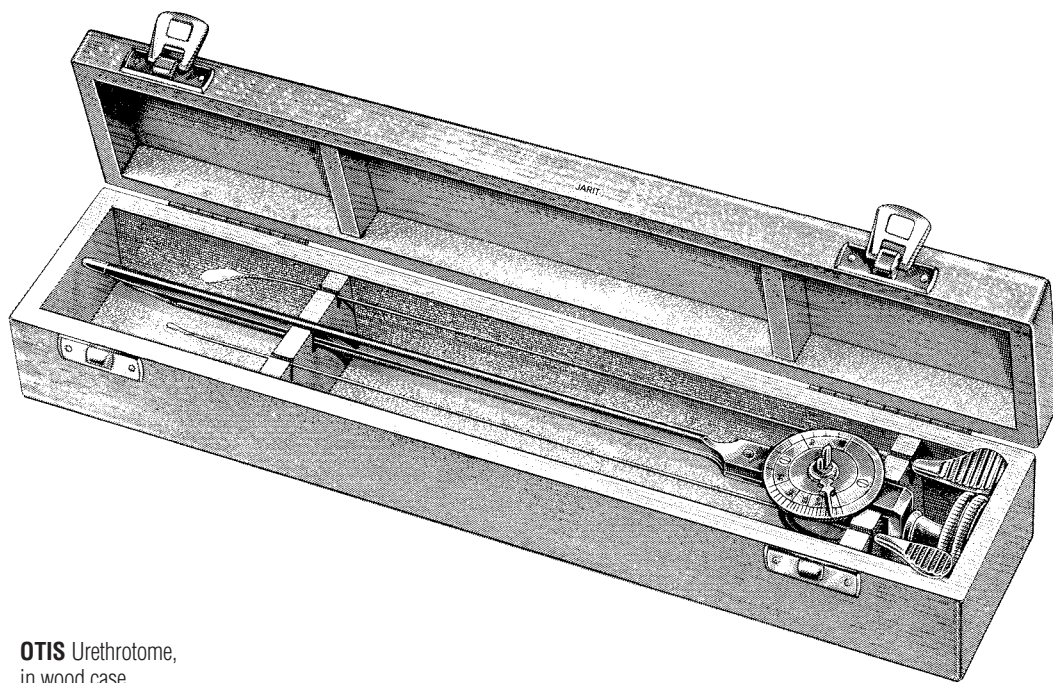


105-255 **PRATT** T-Clamp,
5½" (15cm)



105-320 **PENNINGTON** Forceps,
5¼" (14.6cm), triangular jaws

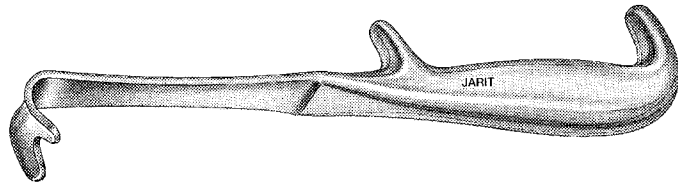




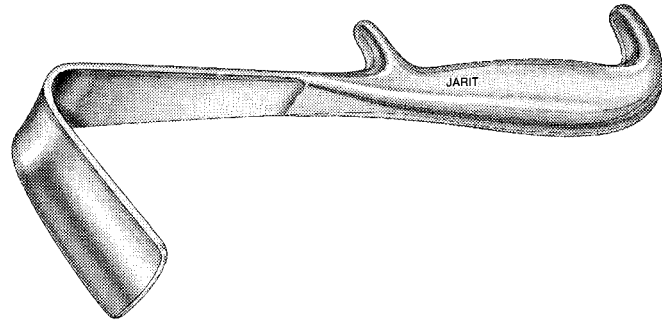
475-415 OTIS Urethrotome,
in wood case

475-416 OTIS Urethrotome,
blade only

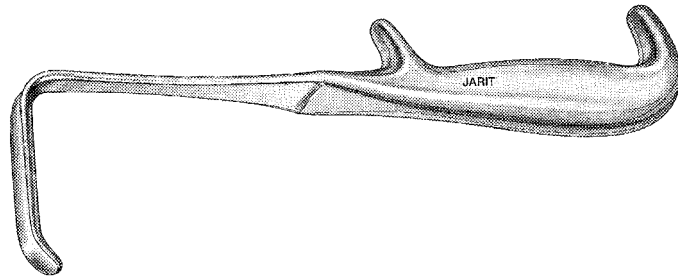
475-425 YOUNG Prostatic Retractor,
8 $\frac{3}{4}$ " (22.2cm), notched blade,
1" x 1" long (2.5cm x 2.5cm)



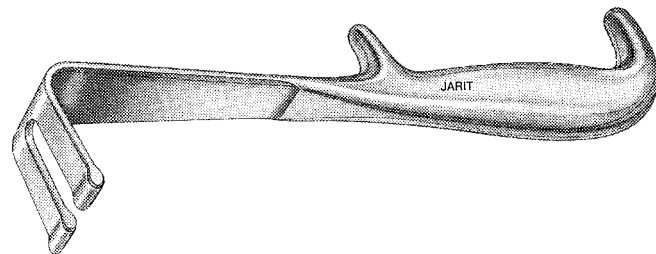
475-426 YOUNG Prostatic Retractor,
8 $\frac{3}{4}$ " (21.3cm), anterior blade,
1 $\frac{1}{2}$ " x 2 $\frac{3}{8}$ " long (3.8 x 6cm)



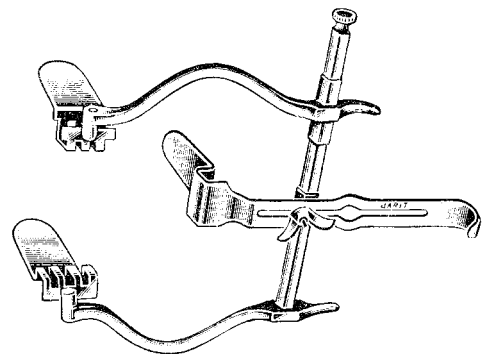
475-427 YOUNG Prostatic Retractor,
8 $\frac{3}{4}$ " (21.9cm), lateral blade,
 $\frac{7}{16}$ " x 2 $\frac{1}{2}$ " long (1 x 5.4cm)



475-428 YOUNG Prostatic Retractor,
8 $\frac{3}{4}$ " (21.3cm), divided blade,
1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " long (3.8 x 4.2cm)



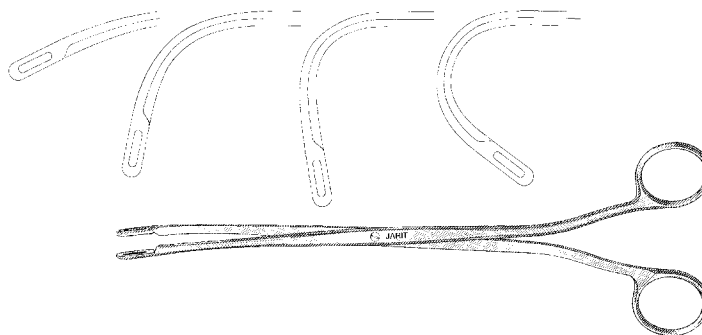
475-440 JUDD-MASSON Bladder Retractor,
Maximum opening: 4 $\frac{1}{4}$ " (12.1cm)
Swivel blades: 1 x 2 $\frac{3}{4}$ " deep (2.5cm x 7cm)
Center blade: 1 x 2 $\frac{3}{4}$ " deep (2.5cm x 7cm)



RANDALL Kidney Stone Forceps,
9 1/4" (23.5cm)

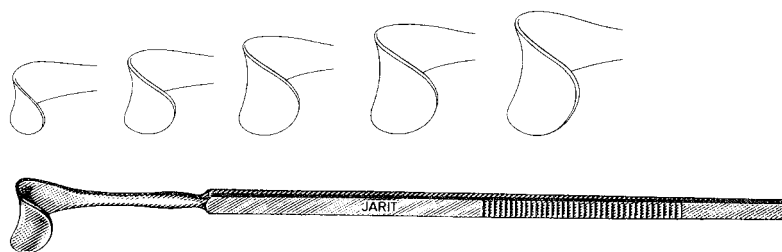
- 475-470** 1/4 curve
- 475-471** 1/2 curve
- 475-472** 3/4 curve
- 475-473** Full curve

(Details Shown at 1/2 Size)

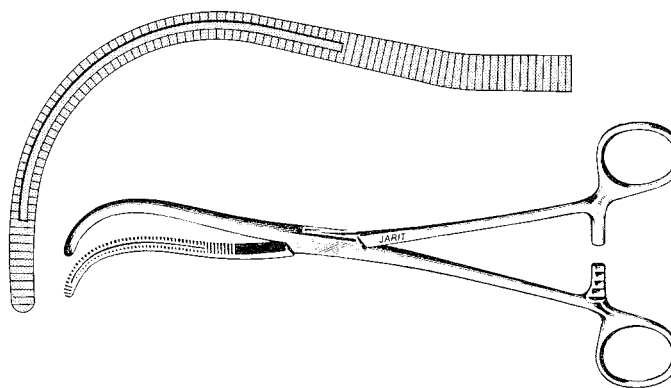


JARIT Renal Sinus Retractors,
9 1/4" (23.5cm)

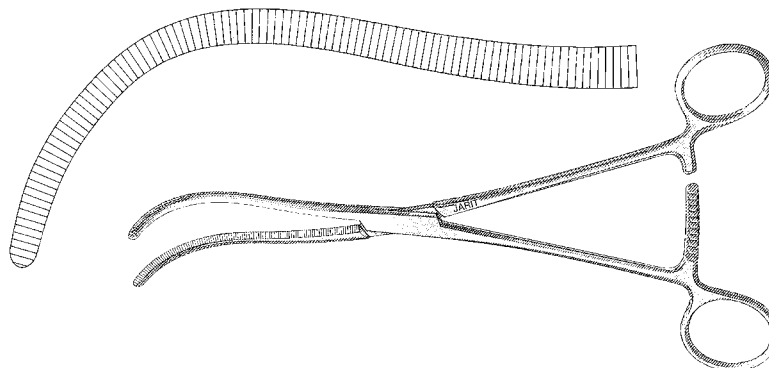
- 475-490** 9mm wide blade
- 475-491** 11mm wide blade
- 475-492** 13mm wide blade
- 475-493** 15mm wide blade
- 475-494** 18mm wide blade



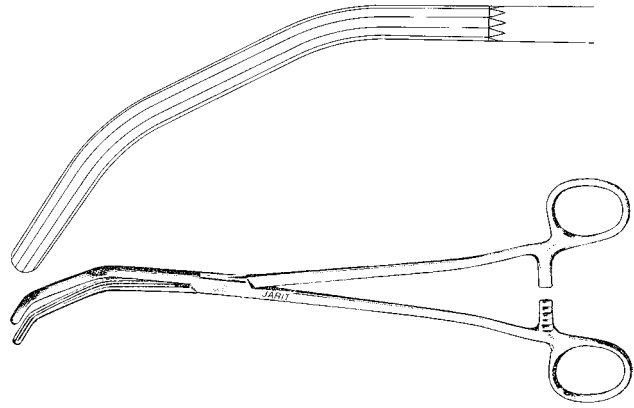
475-500 **STILLE** Vessel Clamp,
9" (22.8cm)



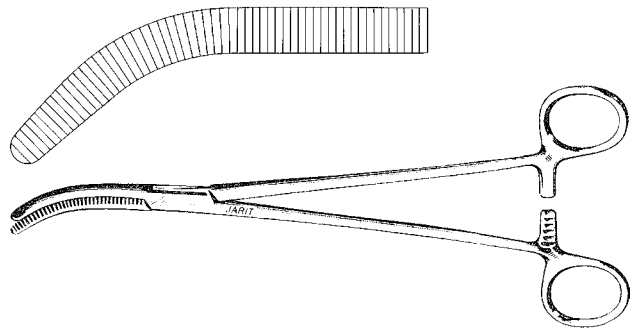
475-505 **MAYO (GUYON)** Vessel Clamp,
9 1/4" (23.5cm)



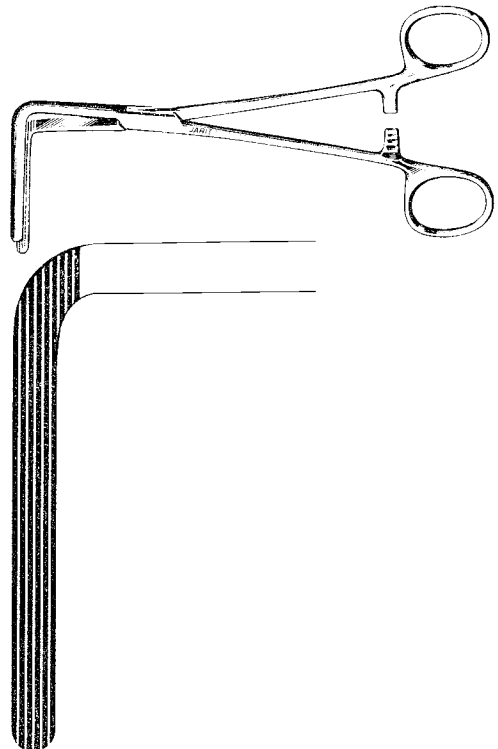
475-510 HERRICK Kidney Clamp,
9½" (24.1cm)



475-520 WERTHEIM Pedicle Clamp,
10" (25.4cm)

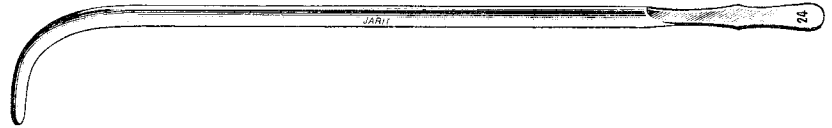


475-525 WERTHEIM-CULLEN Pedicle Clamp,
8¼" (21cm)



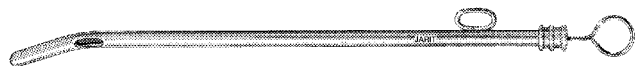
VAN BUREN Urethral Sounds,
10 $\frac{3}{4}$ " (27.3cm)

- 475-550** 8 French
- 475-551** 10 French
- 475-552** 12 French
- 475-553** 14 French
- 475-554** 16 French
- 475-555** 18 French
- 475-556** 20 French
- 475-557** 22 French
- 475-558** 24 French
- 475-559** 26 French
- 475-560** 28 French
- 475-561** 30 French
- 475-562** 32 French
- 475-563** 34 French
- 475-564** 36 French



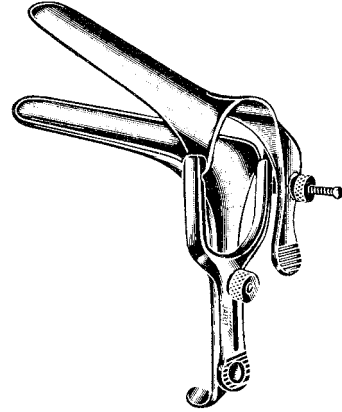
FEMALE Catheter,
5 $\frac{3}{4}$ " (14.6cm)

- 475-634** 12 French
- 475-635** 14 French
- 475-636** 16 French
- 475-637** 18 French



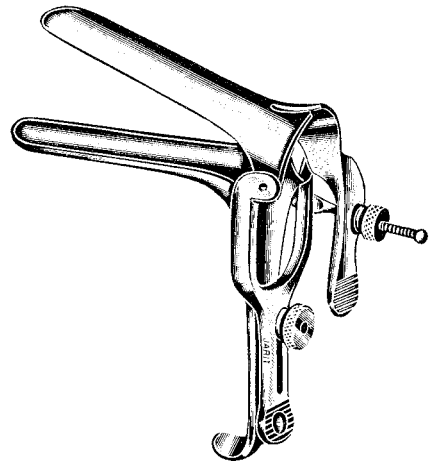
GRAVES Vaginal Specula,

- 500-100** Small blade: $\frac{3}{4}$ " x 3" (1.9cm x 7.6cm)
- 500-105** Medium blade: $1\frac{1}{8}$ " x 4" (3.5cm x 10.2cm)
- 500-110** Large blade: $1\frac{1}{2}$ " x $4\frac{1}{2}$ " (3.8cm x 11.4cm)

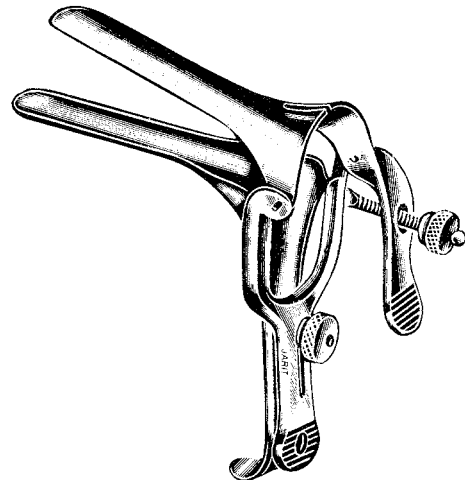


PEDERSON Vaginal Specula,

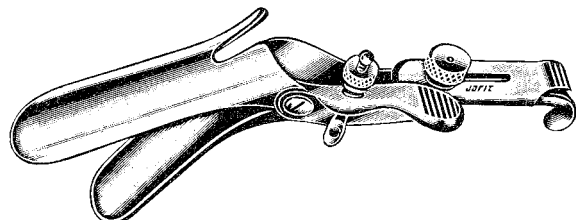
- 500-115** Small blade: $\frac{1}{2}$ " x 3" (1.3cm x 7.6cm)
- 500-120** Medium blade: $\frac{3}{8}$ " x 4" (2.2cm x 10.2cm)
- 500-125** Large blade: 1" x $4\frac{1}{2}$ " (2.5cm x 11.4cm)

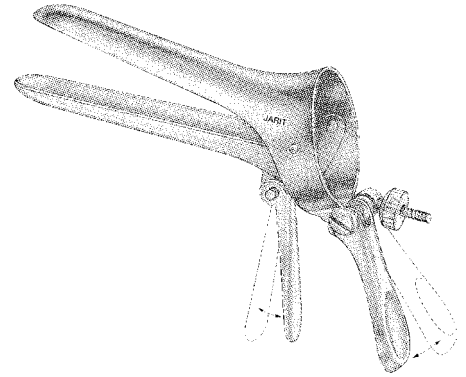


JARIT-PEDERSON Vaginal Speculum,
blade $\frac{5}{8}$ " x 4" (1.6cm x 10.2cm)



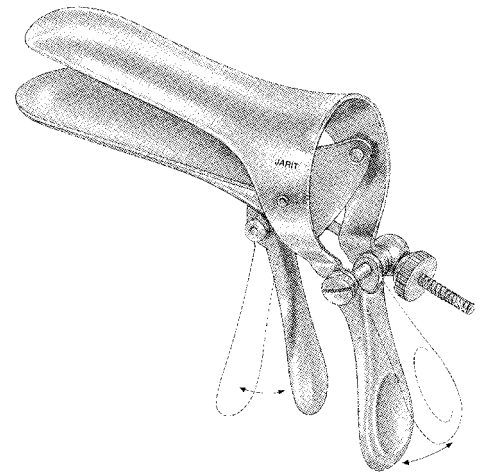
- 500-135** **JARIT-GRAVES** Vaginal Speculum,
blade $1\frac{1}{8}$ " x 4" (3.5cm x 10.2cm),
45° angle, one open side





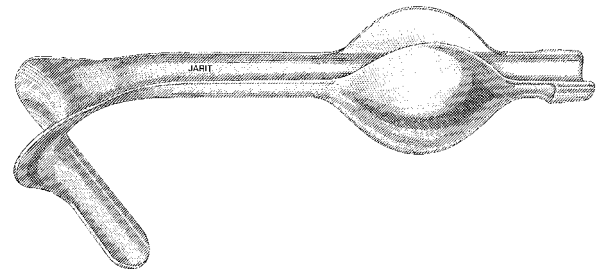
CUSCO Vaginal Specula,
Swiss Pattern

- 500-137** Small blade: $\frac{7}{8}$ " x $3\frac{3}{8}$ " (2.2cm x 9.2cm)
- 500-138** Medium blade: 1" x 4" (2.5cm x 10.2cm)
- 500-139** Large blade: $1\frac{1}{16}$ " x $4\frac{3}{8}$ " (2.7cm x 11.1cm)



CUSCO Vaginal Specula,

- 500-141** Small blade: $1\frac{1}{4}$ " x 3" (3.2cm x 7.6cm)
- 500-142** Medium blade: $1\frac{3}{8}$ " x $3\frac{3}{8}$ " (3.5cm x 8.6cm)
- 500-143** Large blade: $1\frac{3}{8}$ " x 4" (3.5cm x 10.2cm)



AUVARD Vaginal Specula,
 $2\frac{1}{2}$ lbs.

- 500-145** Blade $1\frac{1}{2}$ " x $2\frac{3}{4}$ " (3.8cm x 7cm)
- 500-146** Blade $1\frac{1}{2}$ " x $3\frac{1}{4}$ " (3.8cm x 8.3cm)
- 500-147** Blade $1\frac{3}{4}$ " x 4" (4.4cm x 10.2cm)

- 500-148** **STEINER-AUVARD** Vaginal Speculum,
 $2\frac{1}{2}$ lbs., blade $1\frac{1}{4}$ " x $5\frac{1}{2}$ " (3.2cm x 14cm)

500-160 O'SULLIVAN-O'CONNOR Vaginal Retractor,
with 3 removable and 2 fixed blades

Removable blades:

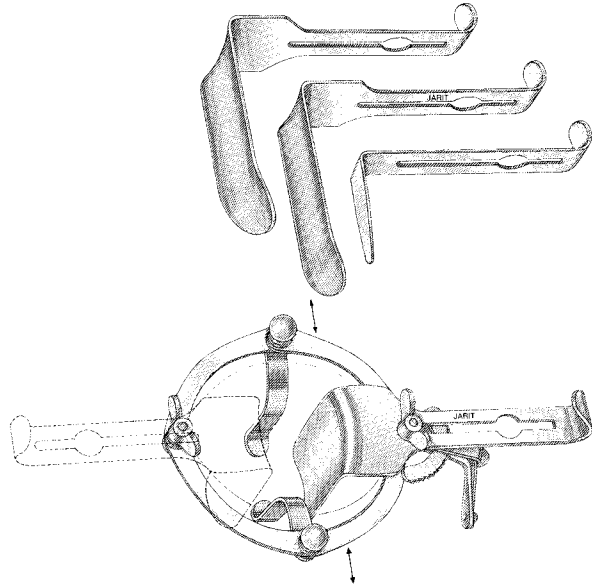
$\frac{3}{4}$ " x $1\frac{1}{4}$ " deep (1.9cm x 4.4cm)

$1\frac{1}{2}$ " x $3\frac{3}{8}$ " deep (3.8cm x 8.6cm)

$1\frac{3}{4}$ " x $3\frac{3}{8}$ " deep (4.5cm x 8.6cm)

Fixed blades:

$\frac{3}{8}$ " x $2\frac{1}{4}$ " deep (1cm x 5.7cm)

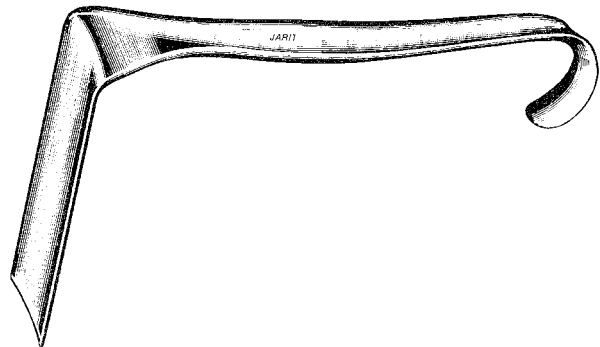


JACKSON Vaginal Retractors,
7" (17.8cm)

500-162 Blade $1\frac{1}{2}$ " x 3" deep (3.8cm x 7.6cm)

500-163 Blade $1\frac{1}{2}$ " x $3\frac{1}{2}$ " deep (3.8cm x 8.9cm)

500-164 Blade $1\frac{1}{2}$ " x 4" deep (3.8cm x 10.2cm)

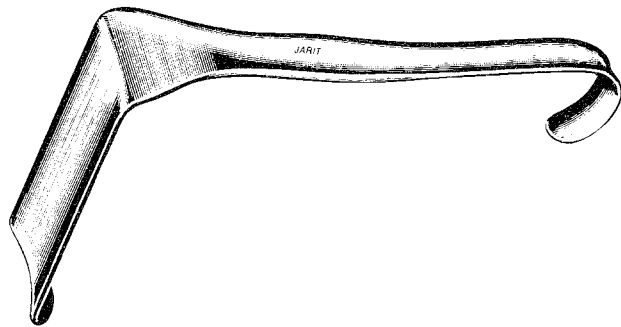


EASTMAN Vaginal Retractors,
7" (17.8cm)

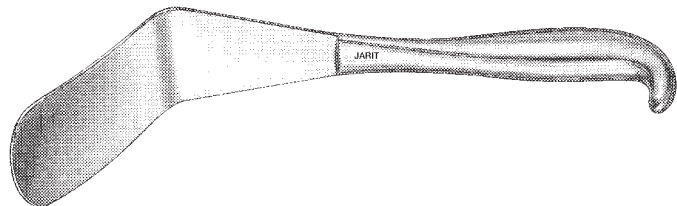
500-166 Blade $1\frac{1}{2}$ " x 3" deep (3.8cm x 7.6cm)

500-167 Blade $1\frac{1}{2}$ " x $3\frac{1}{2}$ " deep (3.8cm x 8.9cm)

500-168 Blade $1\frac{1}{2}$ " x 4" deep (3.8cm x 10.2cm)

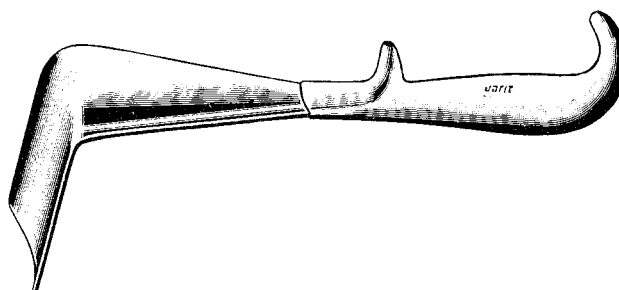


475-429 MURPHY Gall Bladder Retractor,
11" (28cm),
blade 2" wide (5cm)



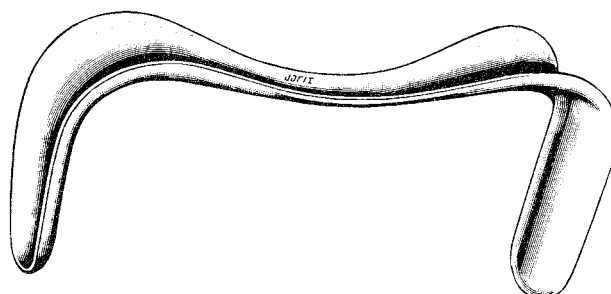
DOYEN Vaginal Retractors,
8½" (21.6cm)

- 200-145** Blade 1¼" x 2½" deep (4.4cm x 6.4cm)
- 200-147** Blade 2½" x 3" deep (5.4cm x 7.6cm)
- 200-149** Blade 2¾" x 3½" deep (5.7cm x 8.9cm)



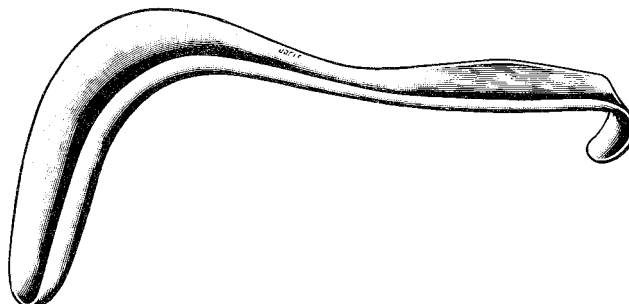
SIMS Vaginal Retractors,
double-ended

- 500-170** 6½" (16.5cm),
blades ¾" x 2½" deep (2.2cm x 6.4cm) and
1" x 3" deep (2.5cm x 7.6cm)
- 500-171** 6¾" (16.8cm),
blades 1" x 2½" deep (2.5cm x 6.4cm) and
1¼" x 3" deep (3.2cm x 7.6cm)
- 500-172** 6¾" (16.8cm),
blades 1" x 3" deep (2.5cm x 7.6cm) and
1¼" x 3¼" deep (3.2cm x 8.3cm)
- 500-173** 7¼" (18.4cm),
blades 1¼" x 3" deep (3.2cm x 7.6cm) and
1½" x 3¼" deep (3.8cm x 8.3cm)
- 500-174** 7" (20cm),
blades 1¼" x 3¼" deep (3.2cm x 8.3cm) and
1½" x 4" deep (3.8cm x 10.2cm)
- 500-175** 7" (20cm),
blades 1½" x 3¼" deep (3.8cm x 8.3cm) and
1¾" x 4" deep (4.4cm x 10.2cm)



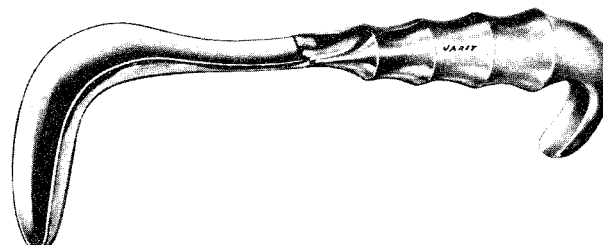
SIMS Vaginal Retractors,
single-ended

- 500-180** 7½" (19cm),
blade 1" x 2½" deep (2.5cm x 6.4cm)
- 500-181** 8¼" (21cm),
blade 1¼" x 3" deep (3.2cm x 7.6cm)
- 500-182** 8¾" (22cm),
blade 1½" x 3½" deep (3.8cm x 8.9cm)



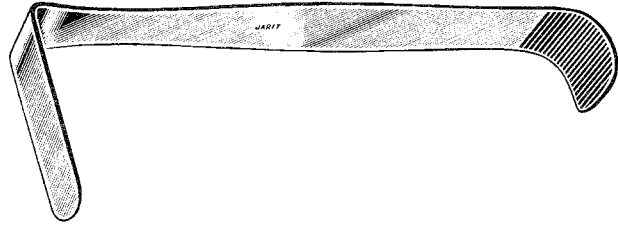
SIMS Vaginal Retractors,
hollow grip handle

- 500-184** 8¾" (22cm),
blade 1" x 2¾" deep (2.5cm x 7cm)
- 500-185** 8¾" (22.5cm),
blade 1¼" x 3" deep (3.2cm x 7.6cm)
- 500-186** 9" (22.9cm),
blade 1½" x 3½" deep (3.8cm x 8.9cm)

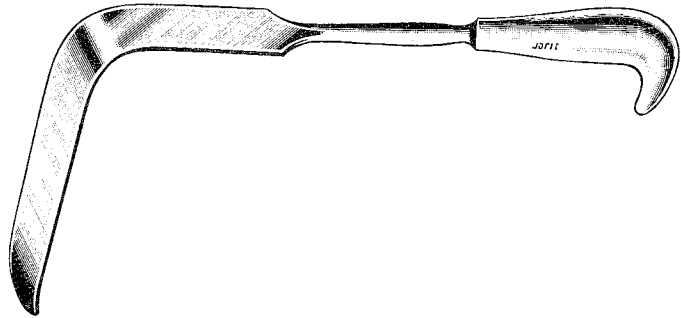


HEANEY Hysterectomy Retractors,
10 $\frac{1}{2}$ " (26.7cm)

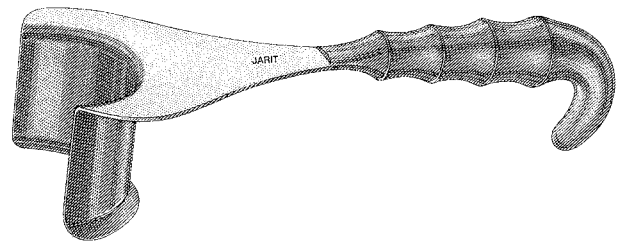
- 500-190** Blade 1" x 1 $\frac{1}{4}$ " deep (2.5cm x 4.4cm)
- 500-191** Blade 1 $\frac{1}{8}$ " x 2 $\frac{1}{4}$ " deep (2.9cm x 7.3cm)
- 500-192** Blade 1 $\frac{1}{8}$ " x 3 $\frac{1}{4}$ " deep (2.9cm x 8.3cm)



500-195 HEANEY-SIMON Hysterectomy Retractor,
10 $\frac{3}{8}$ " (27.6cm),
blade 1" x 4 $\frac{1}{2}$ " deep (2.5cm x 11.4cm)



500-197 DELEE Universal Retractor,
9 $\frac{1}{4}$ " (23.5cm),
blade 2 $\frac{3}{4}$ " x 2" deep (7cm x 5.1cm)



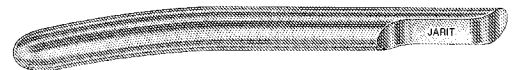
HEGAR Uterine Dilators,
double-ended, 7½" (19.1cm)

- 500-201** Sizes 1-2mm
- 500-200** Set of 8,
sizes 3mm through 18mm,
in canvas roll
- 500-202** Sizes 3-4mm
- 500-203** Sizes 5-6mm
- 500-204** Sizes 7-8mm
- 500-205** Sizes 9-10mm
- 500-206** Sizes 11-12mm
- 500-207** Sizes 13-14mm
- 500-208** Sizes 15-16mm
- 500-209** Sizes 17-18mm



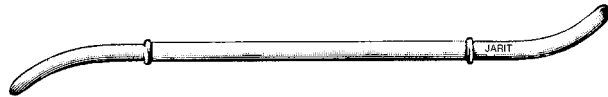
HEGAR Uterine Dilators,
single-ended, 7¼" (18.5cm),
1mm to 26mm, 26 sizes

- 500-215** Set of 26,
sizes 1mm through 26mm,
(whole sizes only) in canvas roll
- | | | | |
|----------------|--------|----------------|--------|
| 500-400 | 1mm | 500-422 | 12mm |
| 500-401 | 1.5mm | 500-423 | 12.5mm |
| 500-402 | 2mm | 500-424 | 13mm |
| 500-403 | 2.5mm | 500-425 | 13.5mm |
| 500-404 | 3mm | 500-426 | 14mm |
| 500-405 | 3.5mm | 500-427 | 14.5mm |
| 500-406 | 4mm | 500-428 | 15mm |
| 500-407 | 4.5mm | 500-429 | 15.5mm |
| 500-408 | 5mm | 500-430 | 16mm |
| 500-409 | 5.5mm | 500-431 | 16.5mm |
| 500-410 | 6mm | 500-432 | 17mm |
| 500-411 | 6.5mm | 500-433 | 17.5mm |
| 500-412 | 7mm | 500-434 | 18mm |
| 500-413 | 7.5mm | 500-435 | 18.5mm |
| 500-414 | 8mm | 500-436 | 19mm |
| 500-415 | 8.5mm | 500-437 | 20mm |
| 500-416 | 9mm | 500-438 | 21mm |
| 500-417 | 9.5mm | 500-439 | 22mm |
| 500-418 | 10mm | 500-440 | 23mm |
| 500-419 | 10.5mm | 500-441 | 24mm |
| 500-420 | 11mm | 500-442 | 25mm |
| 500-421 | 11.5mm | 500-443 | 26mm |



HANK Uterine Dilators,
double-ended, 10 $\frac{3}{4}$ " (27.3cm)

- 500-230** Set of 6,
sizes 9 French through 20 French,
in canvas roll
- 500-232** Sizes 9-10 French
- 500-233** Sizes 11-12 French
- 500-234** Sizes 13-14 French
- 500-235** Sizes 15-16 French
- 500-236** Sizes 17-18 French
- 500-237** Sizes 19-20 French



PRATT Uterine Dilators,
double-ended, 10 $\frac{3}{4}$ " (26.4cm)

- 500-240** Set of 8,
sizes 13 French through 43 French,
in canvas roll
- 500-241** Sizes 13-15 French
- 500-242** Sizes 17-19 French
- 500-243** Sizes 21-23 French
- 500-244** Sizes 25-27 French
- 500-245** Sizes 29-31 French
- 500-246** Sizes 33-35 French
- 500-247** Sizes 37-39 French
- 500-248** Sizes 41-43 French



SIMS Uterine Sounds,
13½" (34.3cm), silver plated

500-250 Graduated in inches

500-252 Graduated in centimeters



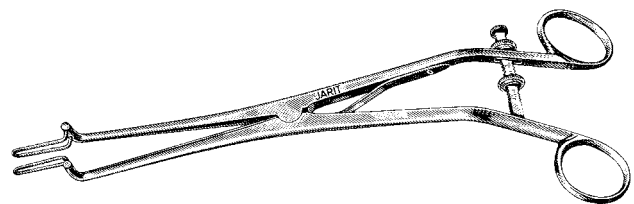
SIMPSON Uterine Sounds,
13½" (34.3cm), silver plated

500-256 Graduated in inches

500-258 Graduated in centimeters



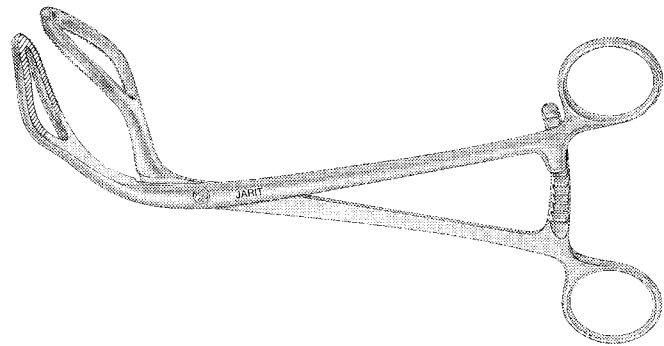
500-265 **KOGAN** Endocervical Speculum,
9¾" (24.5cm), with gauge and set screws



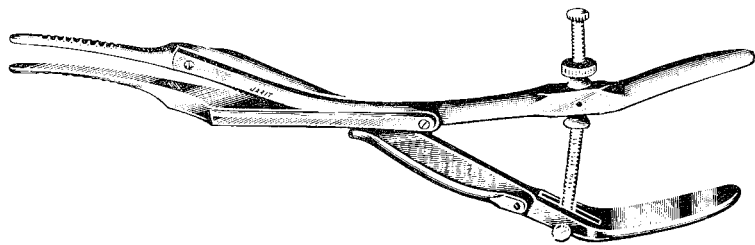


UTERINE ELEVATING FORCEPS AND DILATOR

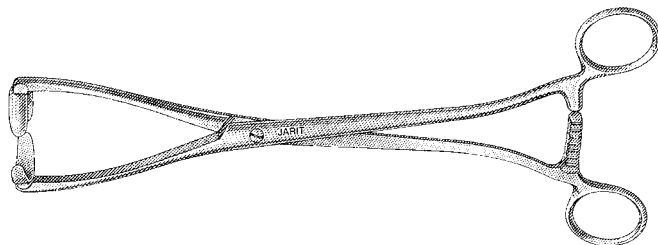
500-270 SOMERS Uterine Elevating Forceps,
9" (22.9cm), curved jaws, serrated

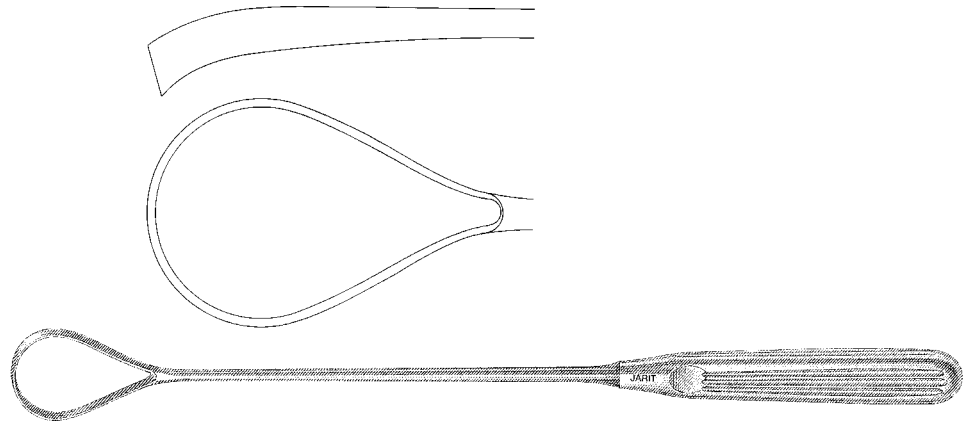


500-275 GOODELL Uterine Dilator,
13" (33cm), with gauge and set screws,
corrugated blades

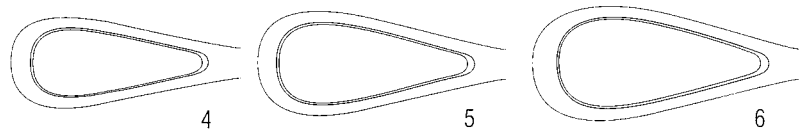
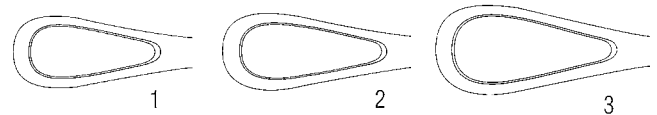
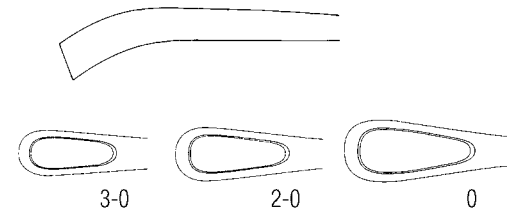


500-280 COLLINS Uterine Elevating Forceps,
10" (25.4cm), swivel jaws





500-295 HUNTER Uterine Curette,
12½" (31.8cm), 3cm wide loop



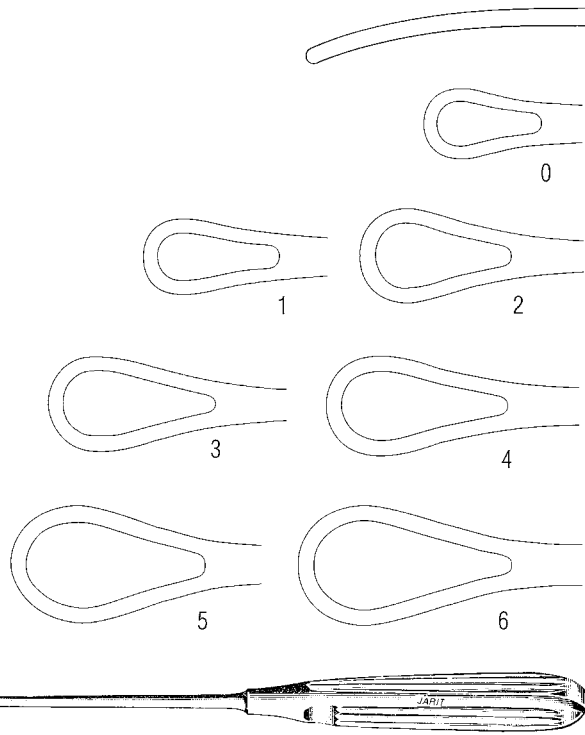
SIMS Uterine Curettes,
11" (28cm), sharp blade,
malleable shaft

- 500-298** Size 000: 4mm wide loop
- 500-299** Size 00: 5mm wide loop
- 500-300** Size 0: 6mm wide loop
- 500-301** Size 1: 7mm wide loop
- 500-302** Size 2: 8mm wide loop
- 500-303** Size 3: 9mm wide loop
- 500-304** Size 4: 10mm wide loop
- 500-305** Size 5: 11mm wide loop
- 500-306** Size 6: 12mm wide loop



THOMAS Uterine Curettes,
11" (28cm), blunt blade,
malleable shaft

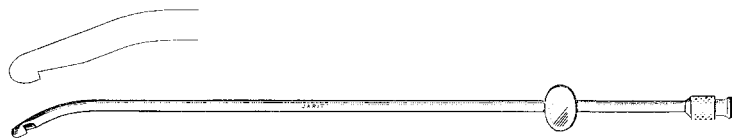
- 500-310** Size 0: 6mm wide loop
- 500-311** Size 1: 7mm wide loop
- 500-312** Size 2: 8mm wide loop
- 500-313** Size 3: 9mm wide loop
- 500-314** Size 4: 10mm wide loop
- 500-315** Size 5: 11mm wide loop
- 500-316** Size 6: 12mm wide loop



- 500-320** **HEANEY** Uterine Biopsy Curette,
9½" (24.1cm), serrated loop,
5mm wide

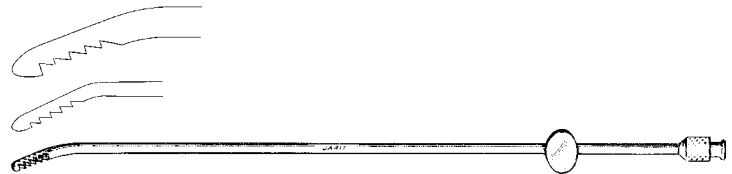


- 500-325** **RANDALL** Endometrial Biopsy Suction Curette,
9" (22.9cm), 4mm diameter,
with Luer hub



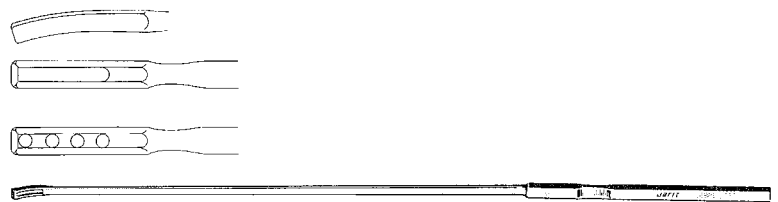
NOVAK Endometrial Biopsy Suction Curettes,
9¼" (23.5cm), with Luer hub

- 500-330** 4mm diameter
- 500-331** 2mm diameter



KEVORKIAN-YOUNGE Endocervical
Biopsy Curettes,
12¼" (31.1cm), 2mm x 12mm loop

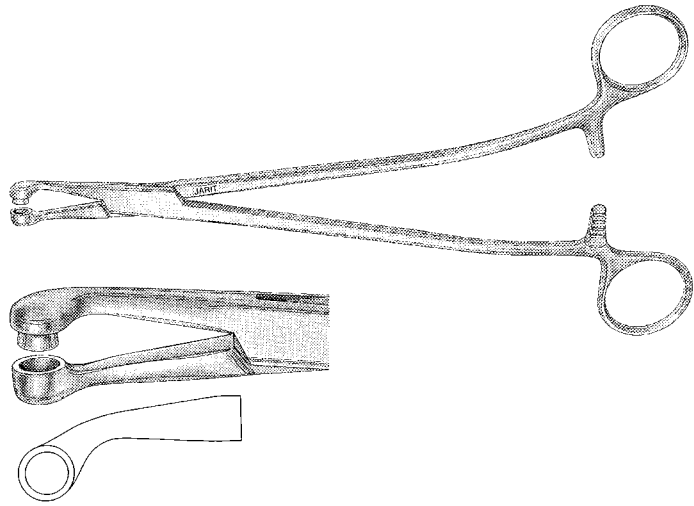
- 500-335** Without specimen basket
- 500-336** With specimen basket



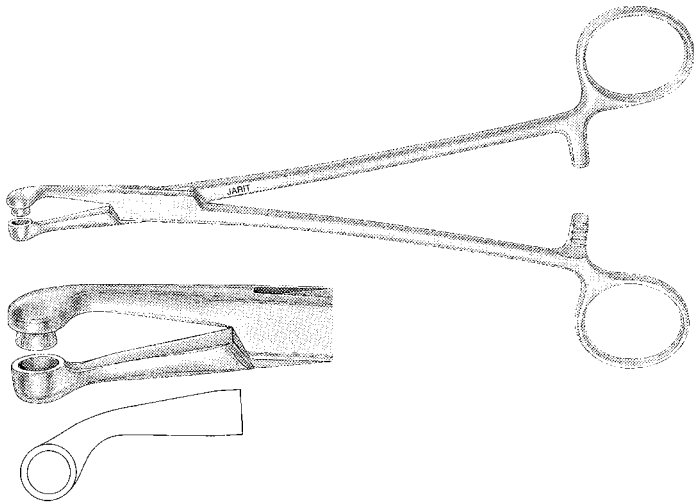
- 500-337** **DUNCAN** Endometrial Biopsy Curette,
11½" (29.2cm), 3mm x 12mm loop



505-100 THOMS-GAYLOR Biopsy Forceps,
9½" (24.1cm), S-shaped, screw lock,
5mm interfitted cups

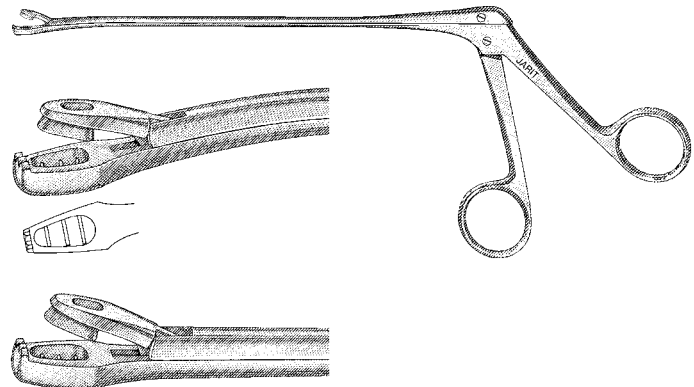


505-105 THOMS-GAYLOR Biopsy Forceps,
8¾" (21cm), curved jaws, straight handle,
5mm interfitted cups



WITTNER Biopsy Forceps,
9" (22.9cm), 4mm x 8mm bite

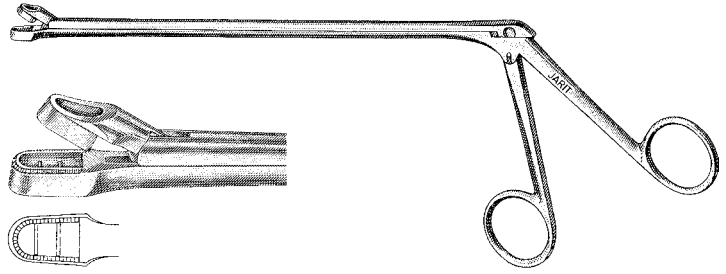
- 505-110** Curved jaws with teeth
- 505-115** Straight jaws with teeth



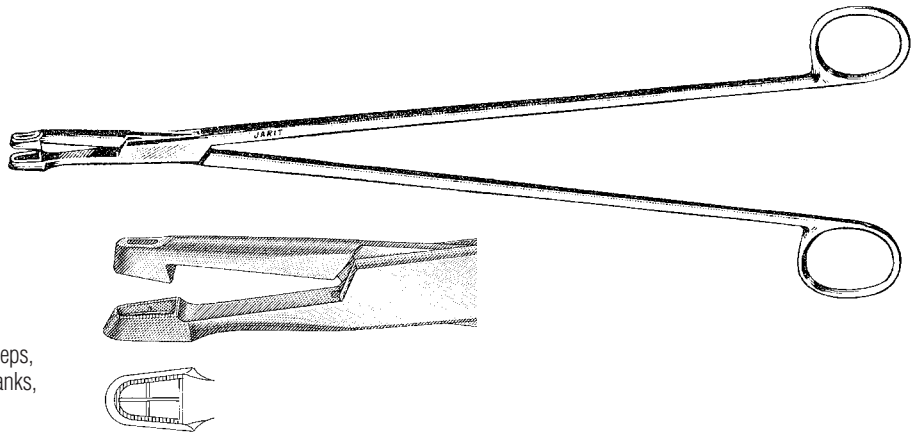


UTERINE BIOPSY FORCEPS

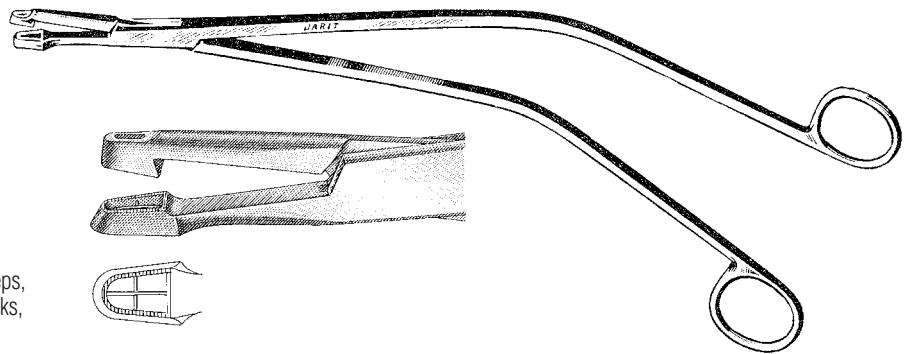
505-116 **EPENDORFER** Biopsy Forceps,
8½" (21.6cm), 4mm x 8mm bite



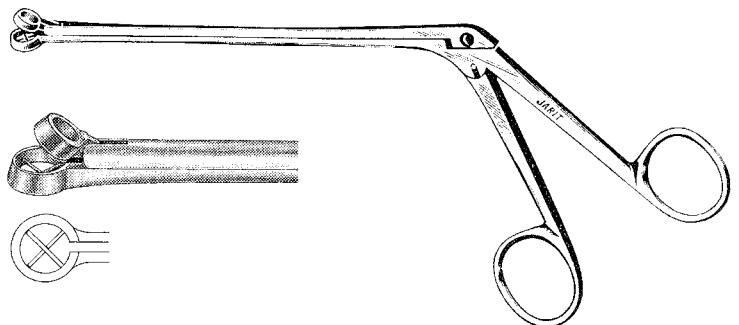
505-120 **SCHUBERT** Biopsy Forceps,
11" (27.9cm), straight shanks,
5mm x 9mm bite



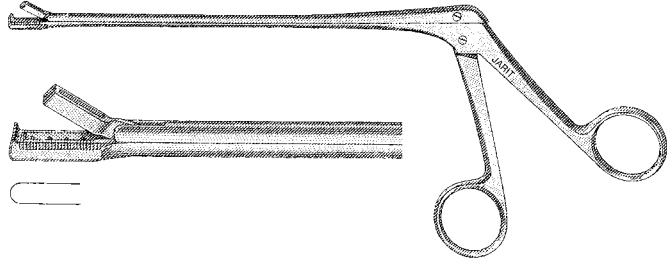
505-125 **SCHUBERT** Biopsy Forceps,
11" (27.9cm), angled shanks,
5mm x 9mm bite



505-135 **HARTMAN** Biopsy Forceps,
7" (17.8cm), 7mm round bite

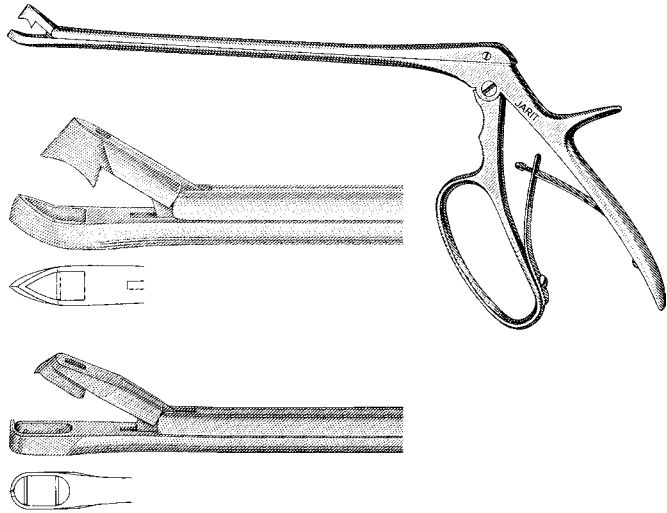


505-140 KEVORKIAN-YOUNGE Biopsy Forceps,
10" (25.4cm), 3mm x 8mm bite

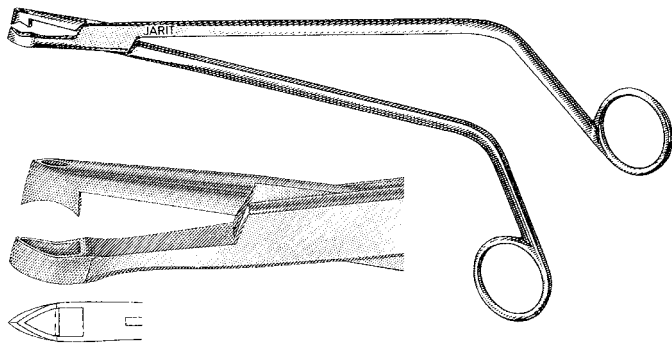


TISCHLER Biopsy Forceps

505-145 9" (22.9cm), pointed jaws, 3mm x 8mm bite
505-146 8¼" (21cm), improved model, rounded jaws,
controls thickness of specimen,
3mm x 7mm bite



505-150 TISCHLER Biopsy Forceps,
10½" (26.7cm), pointed jaws,
4mm x 8mm bite

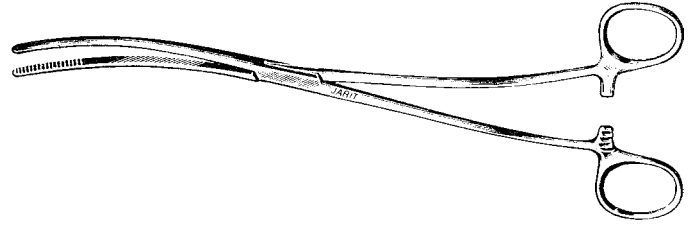


BOZEMAN Uterine Dressing Forceps,
10" (25.4cm)

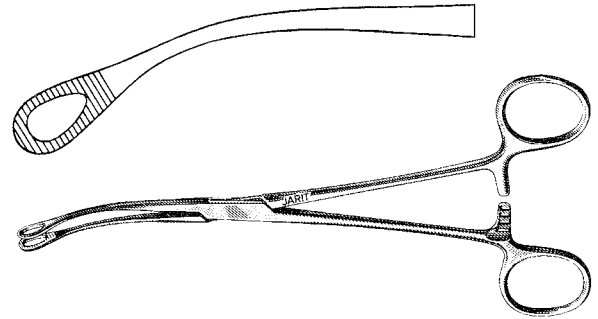
505-160 S-Shaped

505-162 S-Shaped, 1 large ring

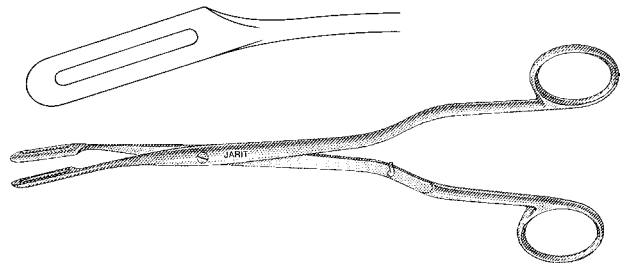
505-163 Straight



505-170 LAUFE Uterine Polyp Forceps,
8" (20.3cm), curved, serrated jaws



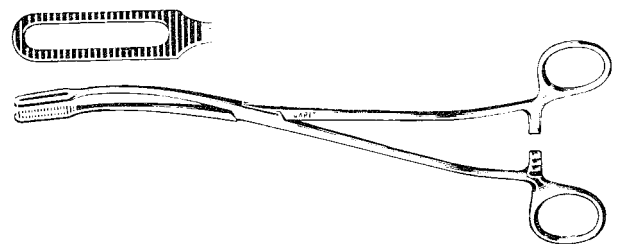
505-175 OVERSTREET Endometrial Polyp Forceps,
9" (22.9cm), hollow, fenestrated jaws



FLETCHER Polyp Forceps,
9½" (24.1cm), serrated jaws

115-119 Straight

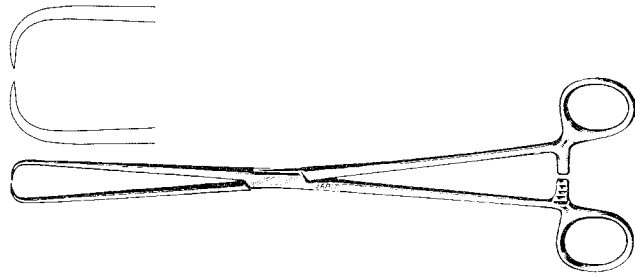
115-120 Curved



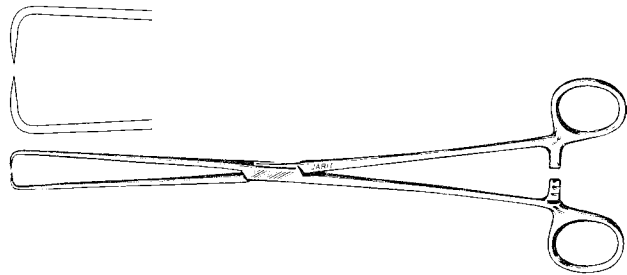


UTERINE TENACULUM FORCEPS

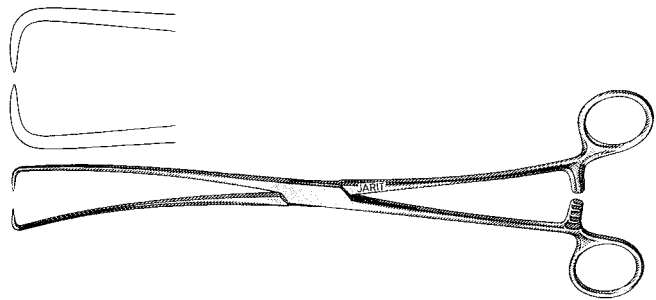
505-200 SCHROEDER Tenaculum Forceps,
10" (25.4cm)



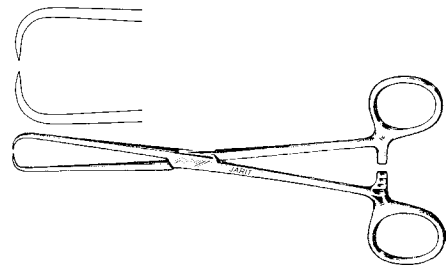
505-205 BRAUN Tenaculum Forceps,
10" (25.4cm)



505-206 DUPLAY Tenaculum Forceps,
11" (27.9cm), double curved



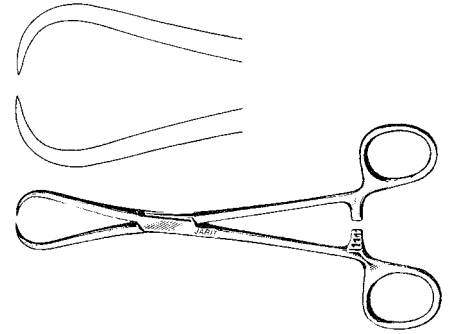
505-210 BARRETT Tenaculum Forceps,
7" (17.8cm)



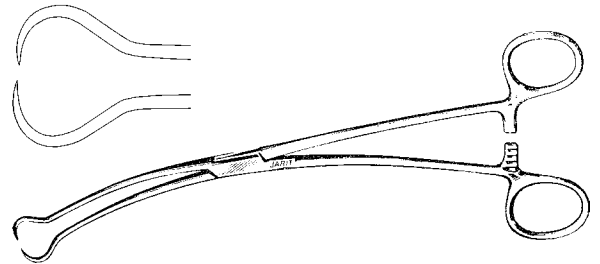


UTERINE TENACULUM FORCEPS, CANNULA

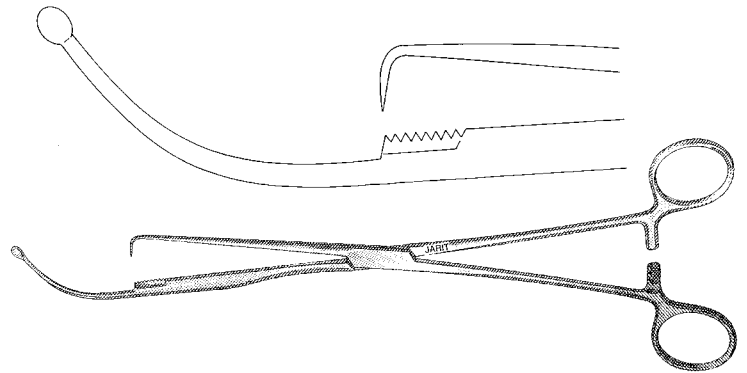
505-215 STAUDE-MOORE Tenaculum Forceps, 6½" (16.5cm)



505-220 SKENE Tenaculum Forceps, 9½" (24.1cm), curved to side



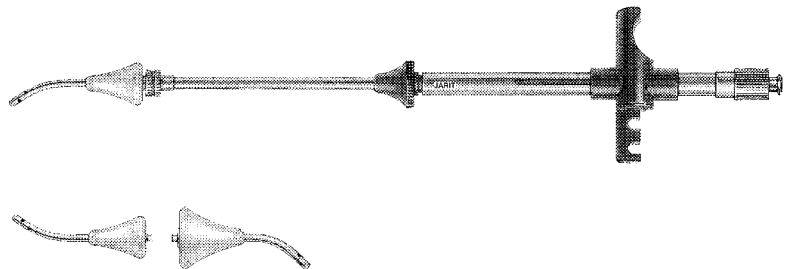
505-225 HULKA Tenaculum Forceps, 11" (27.9cm), 3.5mm probe tip and single tooth



505-230 COHEN Acorn Cannula, intrauterine probe, spring-mounted forceps holder, small and large cervical cones

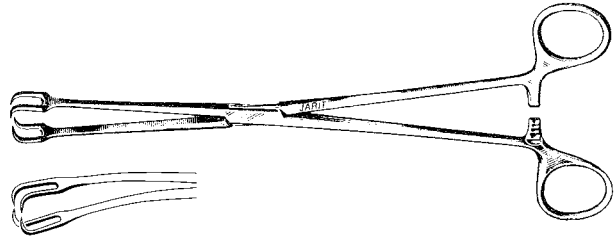
505-231 Small cervical cone for 505-230

505-232 Large cervical cone for 505-230

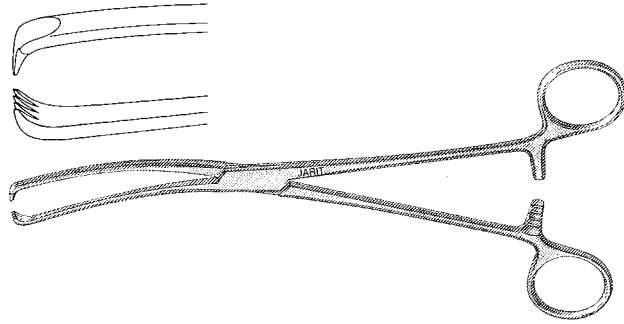


SCHROEDER Uterine Vulsellum Forceps,
9 $\frac{1}{4}$ " (24.8cm), 2 x 2 teeth

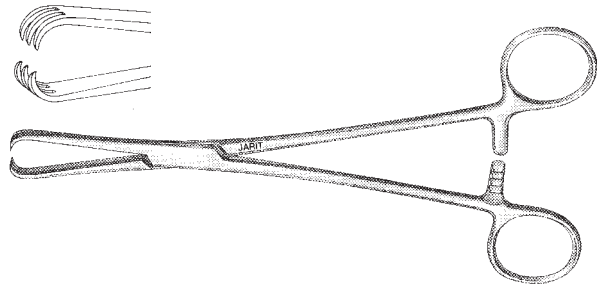
- 505-240 Straight
- 505-241 Curved on flat



505-245 TEALE Uterine Vulsellum Forceps,
10 $\frac{1}{4}$ " (26cm), 3 x 4 teeth, curved to side

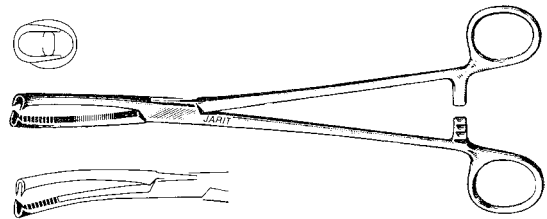


505-250 GORDON Uterine Vulsellum Forceps,
8 $\frac{3}{4}$ " (22.2cm), 3 x 3 teeth, straight

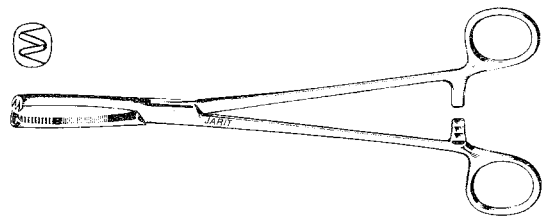


JACOBS Uterine Vulsellum Forceps,
8 $\frac{1}{4}$ " (21cm), 2 x 2 teeth

- 505-250 Straight
- 505-252 Curved to side

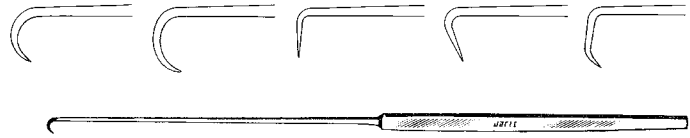


505-255 HENROTIN Uterine Vulsellum Forceps,
8 $\frac{1}{2}$ " (21.6cm), 2 x 3 teeth



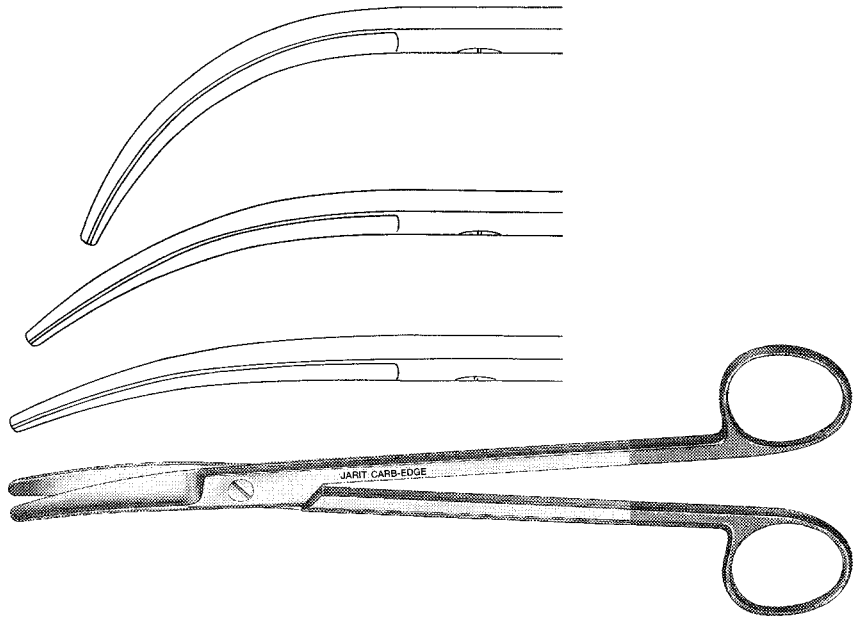
EMMETT Uterine Tenaculum Hooks,
8 3/4" (21.9cm)

- 505-260** Style 1: 1/2 curved
- 505-261** Style 2: 3/4 curved
- 505-262** Style 3: right angled
- 505-263** Style 4: acute angled
- 505-264** Style 5: double angled



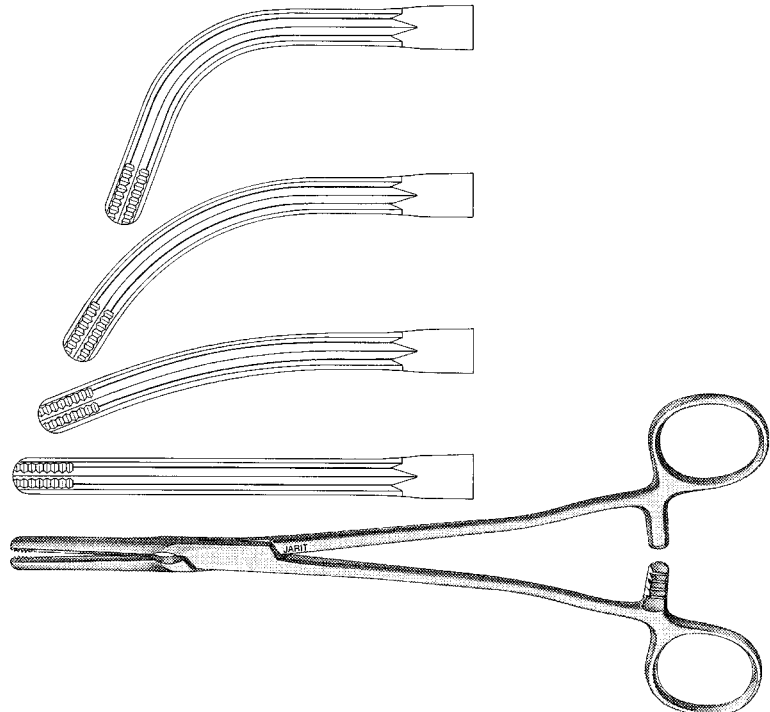
PARAMETRIUM Scissors,
CARB-EDGE

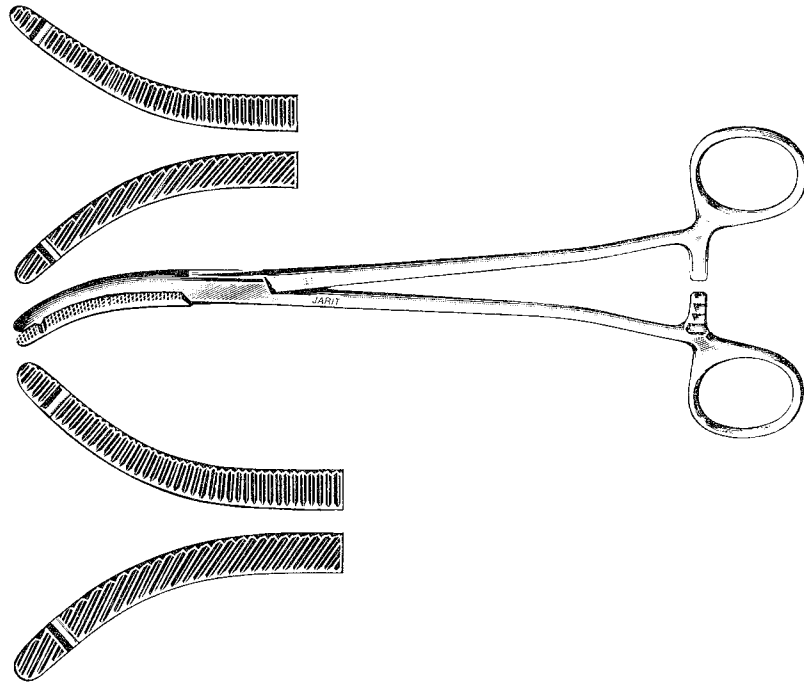
- 505-265** 9" (22.9cm), slight curve
- 505-266** 9" (22.9cm), curve
- 505-267** 9" (22.9cm), full curve
- 505-268** 10 1/2" (26.6cm), slight curve
- 505-269** 10 1/2" (26.6cm), curve
- 505-270** 10 1/2" (26.6cm), full curve
- 505-271** 12" (30.5cm), slight curve
- 505-272** 12" (30.5cm), curve
- 505-273** 12" (30.5cm), full curve



Z-HYSTERECTOMY Forceps,
flared shanks

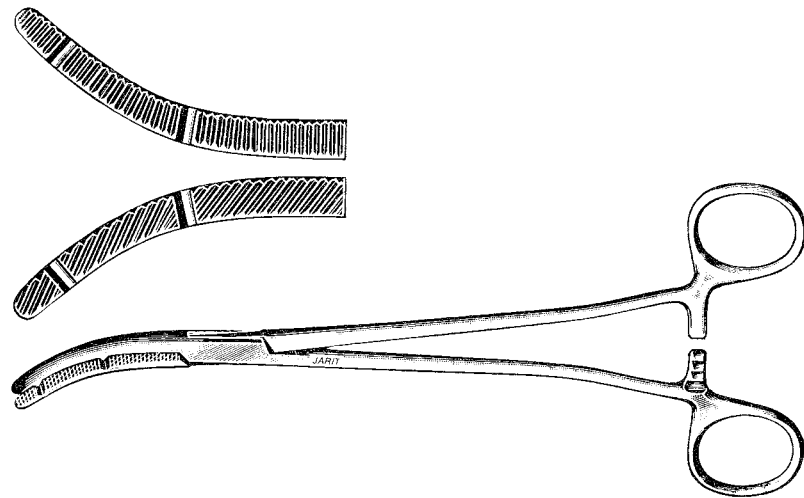
- 505-280** 8 1/4" (21cm), straight
- 505-281** 8 1/4" (21cm), slight curve
- 505-282** 8 1/4" (21cm), curve
- 505-283** 8 1/4" (21cm), angle
- 505-284** 9 1/2" (24.1cm), straight
- 505-285** 9 1/2" (24.1cm), slight curve
- 505-286** 9 1/2" (24.1cm), curve
- 505-287** 9 1/2" (24.1cm), angle
- 505-288** 12" (30.5cm), straight
- 505-289** 12" (30.5cm), slight curve
- 505-290** 12" (30.5cm), curve
- 505-291** 12" (30.5cm), angle
- 505-292** 14" (35.6cm), straight
- 505-293** 14" (35.6cm), slight curve
- 505-294** 14" (35.6cm), curve
- 505-295** 14" (35.6cm), angle



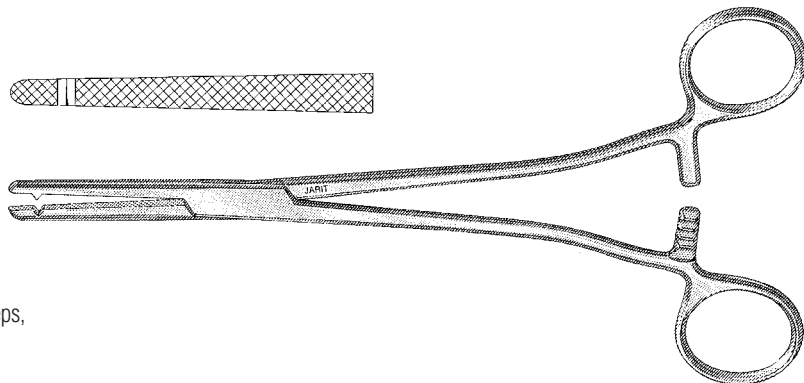


HEANEY Hysterectomy Forceps,
8 1/4" (21cm), curved, single tooth

505-300 Light pattern
505-305 Heavy pattern



505-310 HEANEY Hysterectomy Forceps,
8 1/4" (21cm), curved, double tooth,
heavy pattern



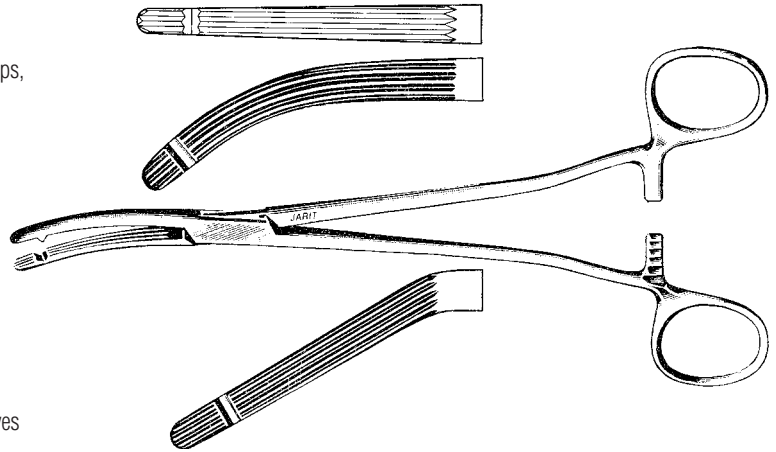
505-315 HEANEY-REZEK Hysterectomy Forceps,
8 1/4" (21cm), straight, single tooth,
cross-serrated



HYSTERECTOMY FORCEPS

HEANEY-BALLENTINE Hysterectomy Forceps,
longitudinal grooves

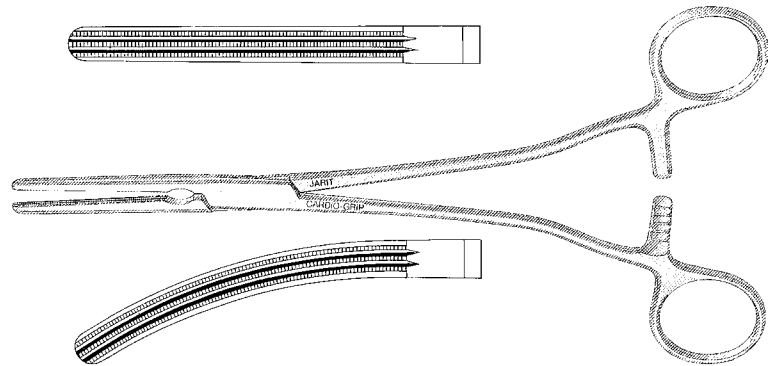
- 505-319** 8¼" (21cm), straight
- 505-320** 8¼" (21cm), curved
- 505-312** 10½" (26.6cm), curved
- 505-313** 10½" (26.6cm), straight
- 505-314** 12" (30.5cm), curved
- 505-316** 12" (30.5cm), straight
- 505-317** 14" (35.6cm), curved
- 505-318** 14" (35.6cm), straight



- 505-330** **GARLAND** Hysterectomy Forceps,
8¼" (21cm), angled on flat, longitudinal grooves

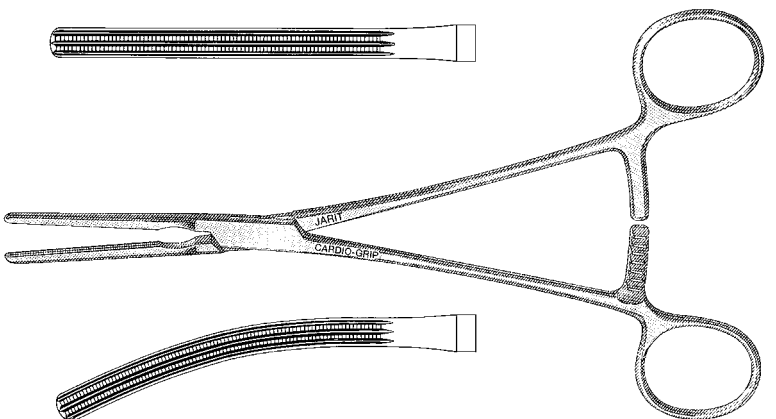
HEANEY Hysterectomy Forceps,
8½" (21.6cm), **CARDIO-GRIP** serrations

- 505-321** Straight
- 505-322** Curved



JARIT Hysterectomy Forceps,
8½" (21.6cm), **CARDIO-GRIP** serrations

- 505-325** Straight
- 505-326** Curved

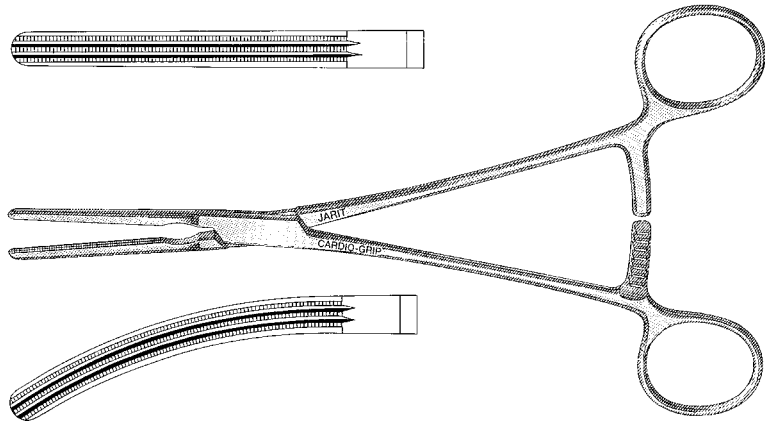




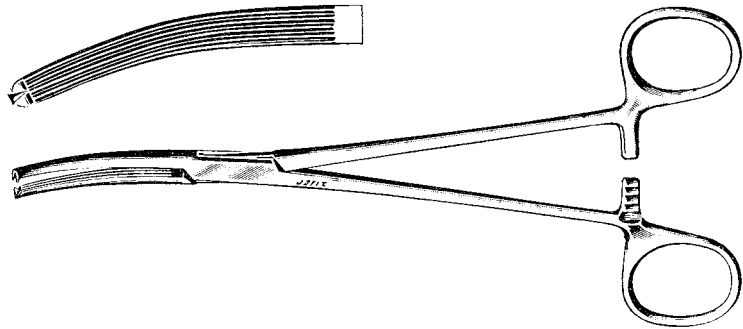
PELVIC AND UTERINE FORCEPS

JARIT Pelvic Clamps,
10½" (26.7cm),
CARDIO-GRIP serrations

- 505-327 Straight
- 505-328 Curved

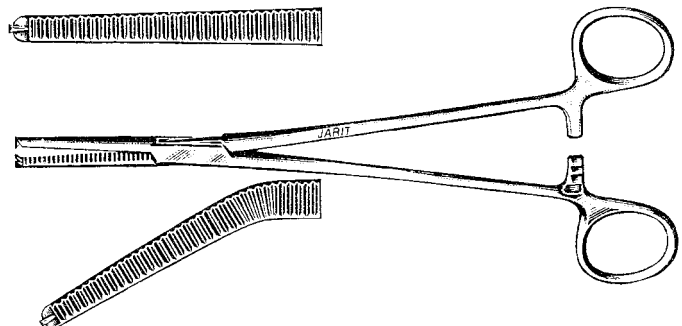


505-335 LONG Hysterectomy Forceps,
7½" (19.1cm), 1 x 2 teeth,
longitudinal grooves



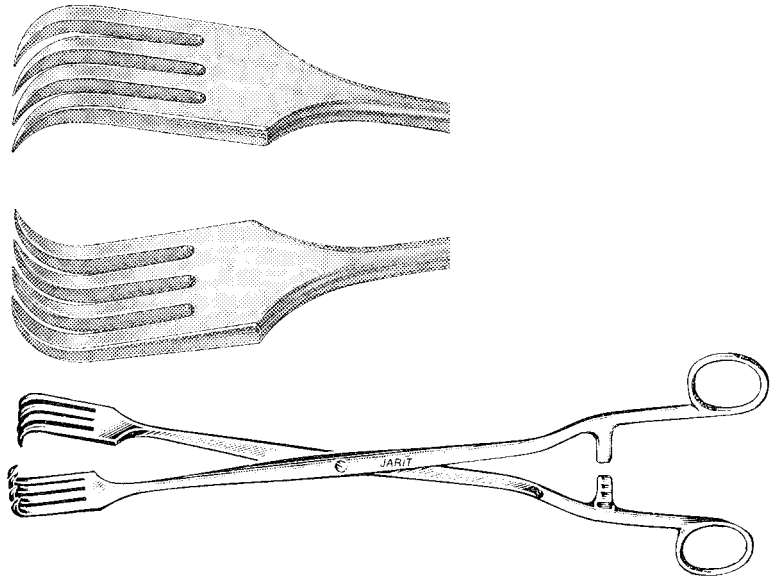
PHANEUF Uterine Artery Forceps,

- 505-340 8" (20.3cm), straight
- 505-345 7½" (20cm), angled on flat

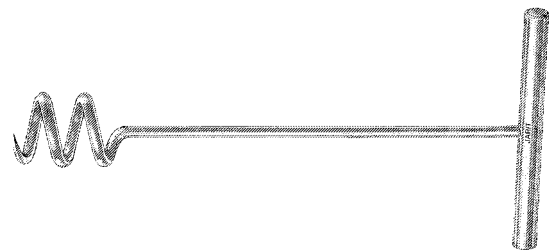




UTERINE FORCEPS AND TUMOR SCREW



505-360 **BILLROTH** Tumor Forceps,
10½" (26.7cm)



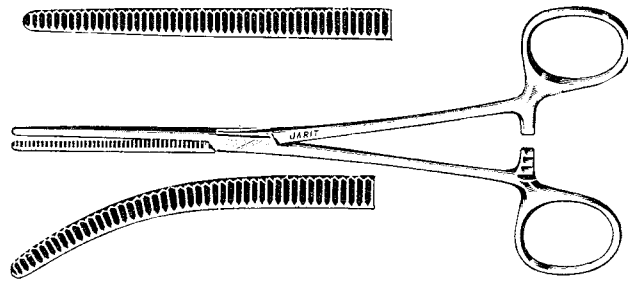
505-365 **DOYEN** Tumor Screw,
6½" (16.5cm), 24mm diameter

ROCHESTER-PEAN Forceps,

Mirror Finish

Satin Finish

105-190	106-190	8" (20.3cm), straight
105-191	106-191	8" (20.3cm), curved
105-195	106-195	9" (22.8cm), straight
105-196	106-196	9" (22.8cm), curved
105-197		10" (25.4cm), straight
105-198		11" (27.9cm), straight
105-199		12" (30.5cm), straight

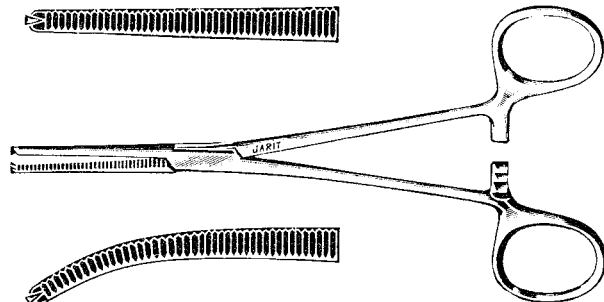


ROCHESTER-OCHSNER Forceps,

Mirror Finish

Satin Finish

105-210	106-210	7¼" (18.4cm), straight
105-212	106-212	7¼" (18.4cm), curved
105-220	106-220	8" (20.3cm), straight
105-222	106-222	8" (20.3cm), curved
105-223		9" (22.8cm), straight
105-224		9" (22.8cm), curved
105-225		10" (25.4cm), straight
105-226		10" (25.4cm), curved
105-228		14" (35.6cm), straight
105-227		11" (27.9cm), straight
105-229		12" (30.5cm), straight



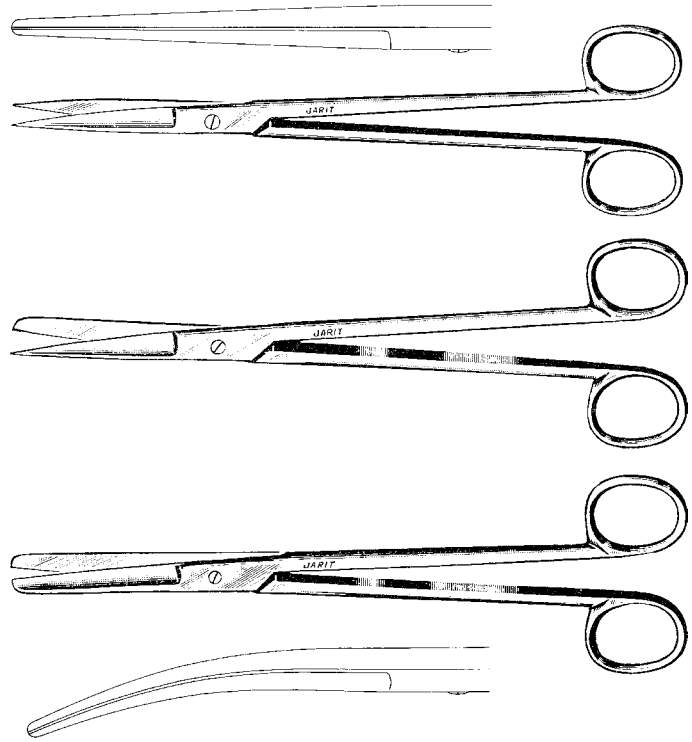
JARIT UTERINE SCISSORS

SIMS Uterine Scissors,
8" (20.3cm), straight

- 505-400** Sharp-sharp
- 505-401** Sharp-blunt
- 505-402** Blunt-blunt

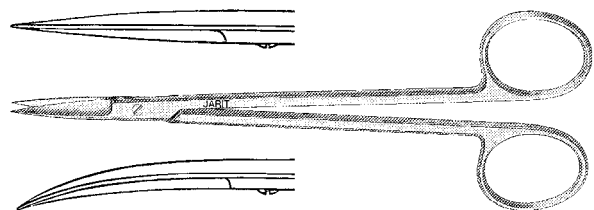
SIMS Uterine Scissors,
8" (20.3cm), curved

- 505-405** Sharp-sharp
- 505-406** Sharp-blunt
- 505-407** Blunt-blunt



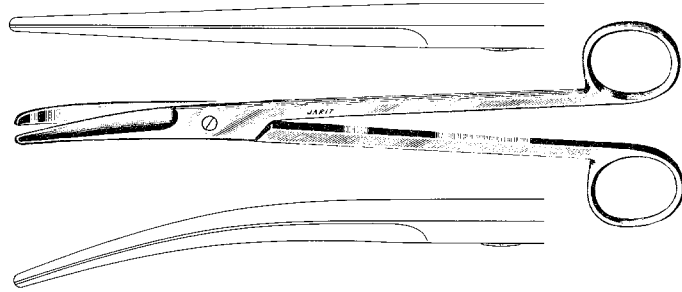
KELLY Uterine Scissors,
6 1/4" (16cm)

- 100-280** Straight
- 100-281** Curved



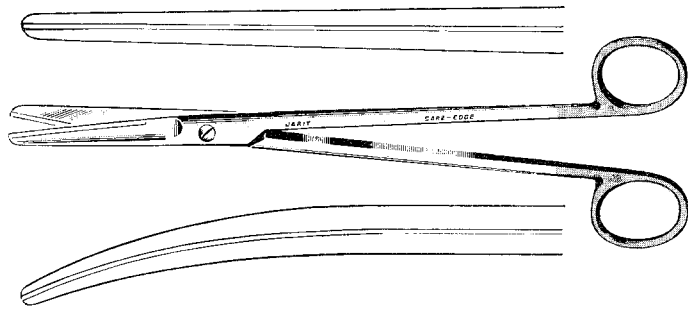
MAYO Uterine Scissors,
9" (22.9cm)

- 305-140** Straight
- 305-141** Curved



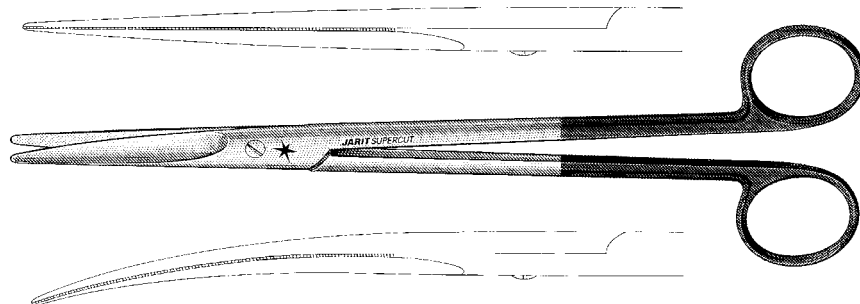
MAYO-HARRINGTON CARB-EDGE Scissors,

- 101-225** 9" (22.8cm), straight
- 101-226** 9" (22.8cm), curved
- 101-230** 14" (35.6cm), straight
- 101-232** 14" (35.6cm), curved

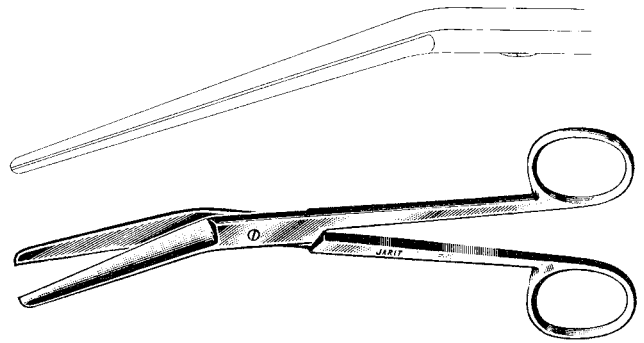


MAYO SUPERCUT Scissors,

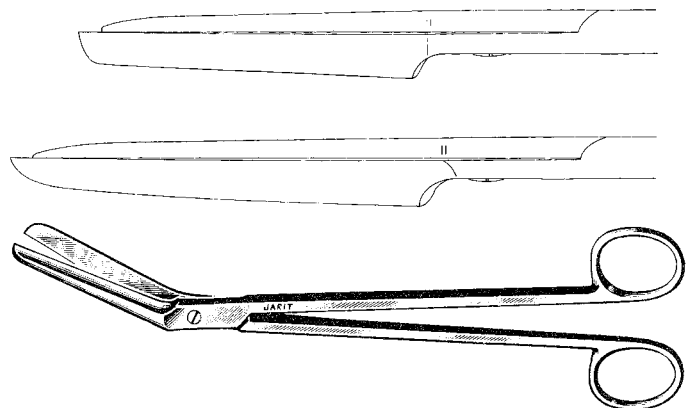
- 102-115** 9" (22.8cm), straight
- 102-116** 9" (22.8cm), curved
- 102-118** 11" (28cm), curved
- 102-114** 12" (30.5cm), curved



100-233 FERGUSON Scissors,
7" (17.8cm), angled on flat



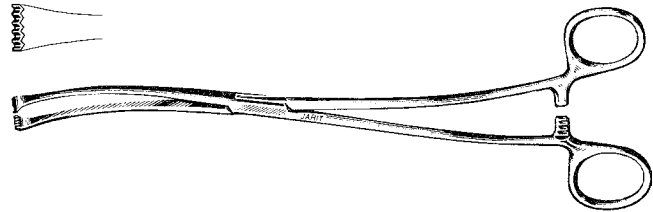
BRAUN Episiotomy Scissors,
505-435 5½" (14cm)
505-436 8½" (21.6cm)



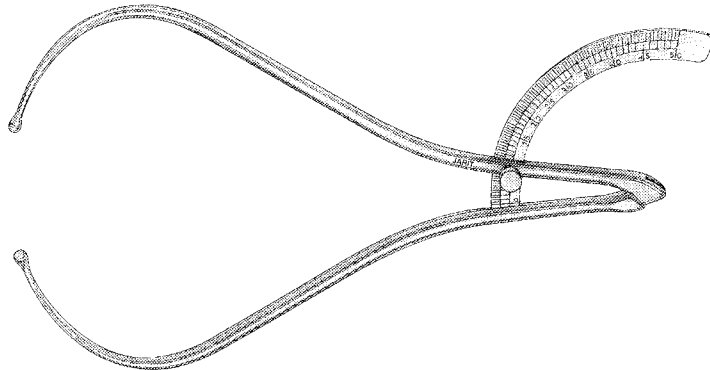
510-100 IOWA Trumpet Pudendal Needle Guide,
5½" (14cm), uses 6" (15.2cm) 28 gauge needle



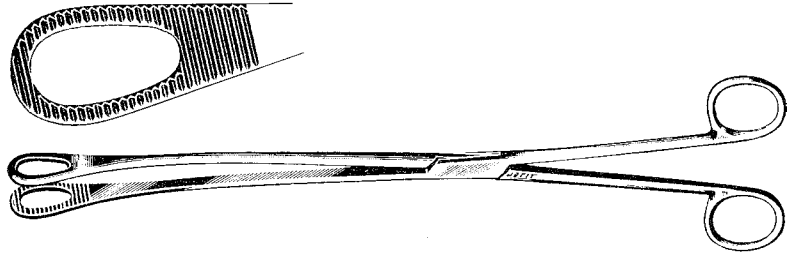
510-120 IOWA Membrane Puncturing Forceps,
10" (25.4cm)



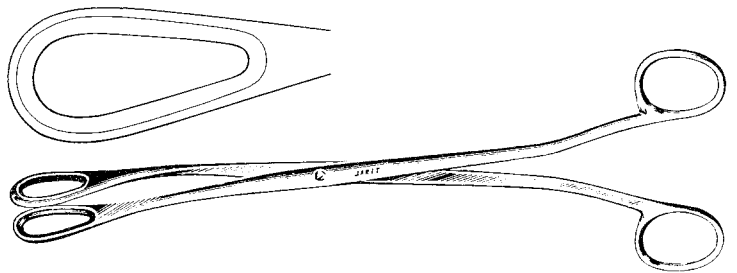
510-130 MARTIN Pelvimeter,
graduated in centimeters and inches



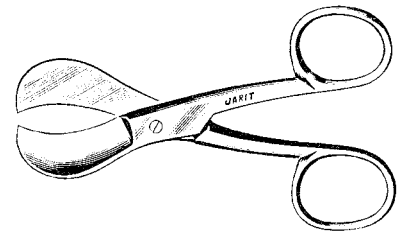
510-140 KELLY Placenta Forceps,
12" (30.5cm)



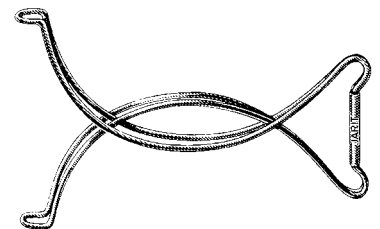
510-145 BARRETT Placenta Forceps,
10" (25.4cm)



510-155 Umbilical Cord Scissors,
4 1/4" (10.8cm)



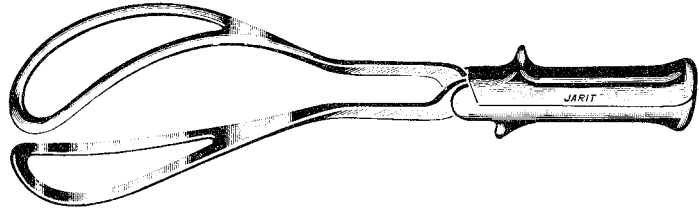
510-165 ZIPSER Penis Clamp,



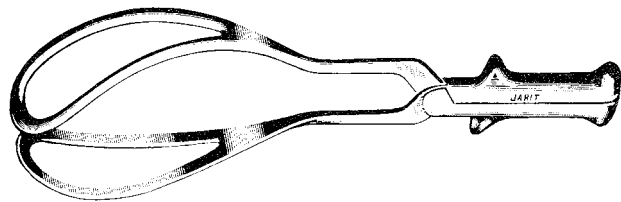
DELEE Obstetrical Forceps,

510-200 12" (30.5cm)

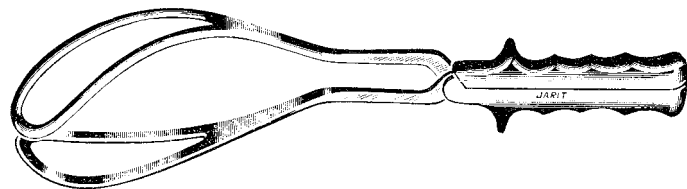
510-205 14" (35.6cm)



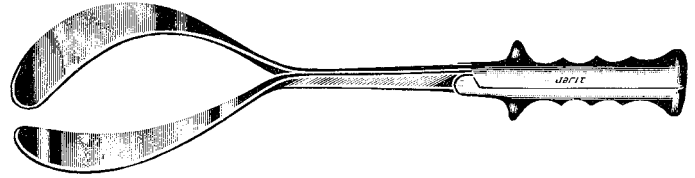
510-220 SIMPSON Obstetrical Forceps,
12" (30.5cm)



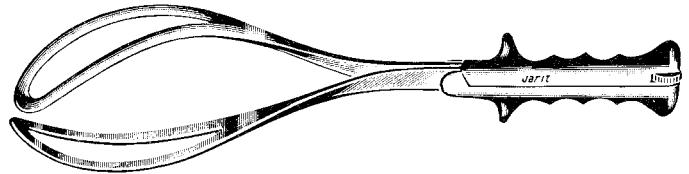
510-225 SIMPSON Obstetrical Forceps,
14" (35.6cm)



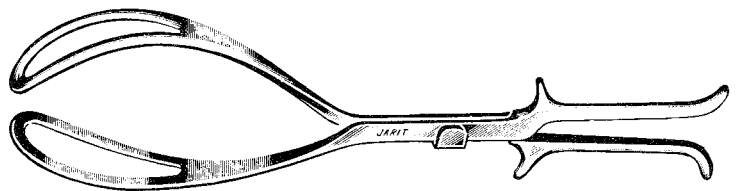
510-235 **McLANE-TUCKER** Obstetrical Forceps,
15¼" (38.7cm)



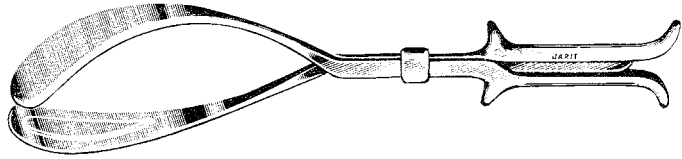
510-245 **ELLIOTT** Obstetrical Forceps,
15" (38.1cm)



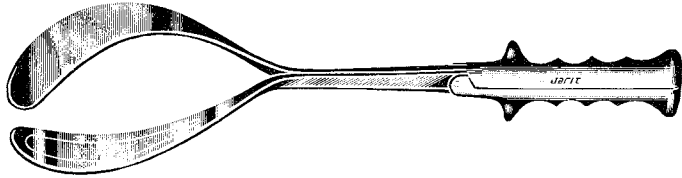
510-260 **KIELAND** Obstetrical Forceps,
15¾" (40cm)



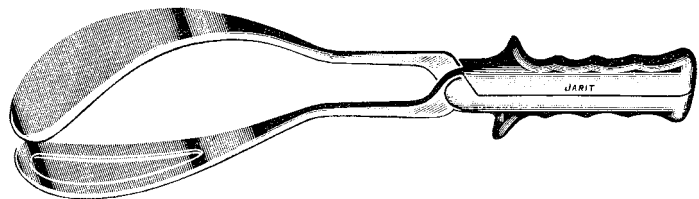
510-265 LUIKHART Obstetrical Forceps,
15¾" (40cm)



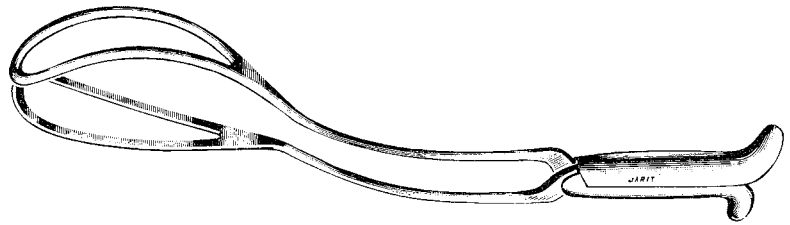
510-275 McLANE-TUCKER-LUIKHART Obstetrical Forceps,
15½" (39.4cm)



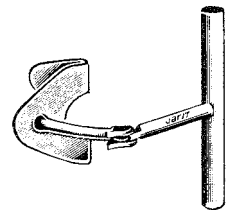
510-290 SIMPSON-LUIKHART Obstetrical Forceps,
14" (35.6cm)



510-300 PIPER Obstetrical Forceps,
17½" (44.5cm)



510-330 BILL Traction Handle,
for use with all O.B. Forceps
having standard type handle





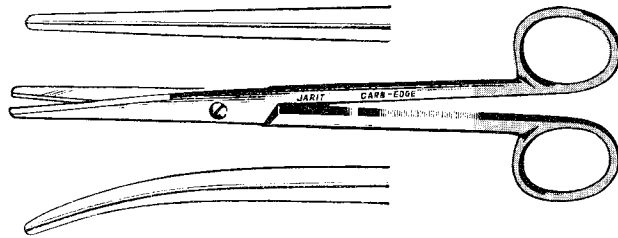
OPEN BARIATRIC SURGERY SCISSORS

JARIT offers a comprehensive line of high-quality surgical instruments for Bariatric Surgery. As the demand continues to grow for surgical instruments for both open and laparoscopic surgical approaches, JARIT includes instruments to support the techniques involved in these challenging surgical procedures.

- For open surgery, 12" and 14" long instruments: full line of forceps, clamps, scissors, needle holders and retractors.
- For the laparoscopic approach, 45cm working length: an essential selection of grasping and dissecting forceps, scissors, needle holders and specialized retractors.

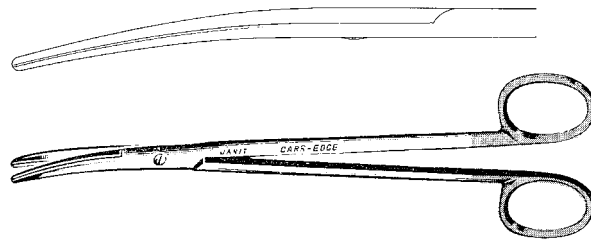
MAYO Scissors,
CARB-EDGE,
14" (35.6cm)

- 101-230** Straight
- 101-232** Curved



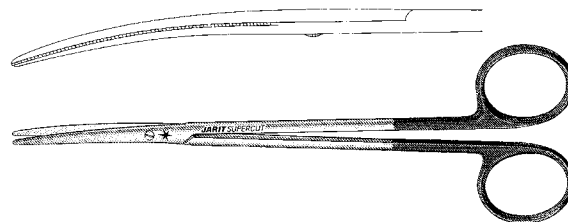
METZENBAUM Scissors,
CARB-EDGE

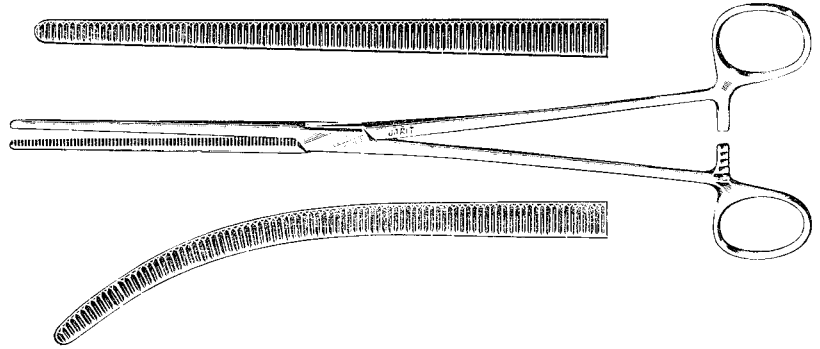
- 101-272** 12" (30.5cm), curved
- 101-256** 14" (35.6cm), curved



METZENBAUM Scissors,
SUPERCUT,

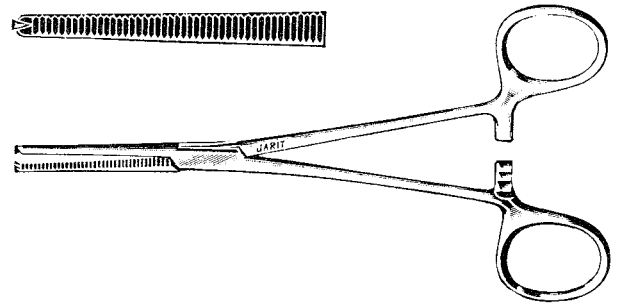
- 102-129** 12" (30.5cm), curved
- 102-127** 14" (35.6cm), curved





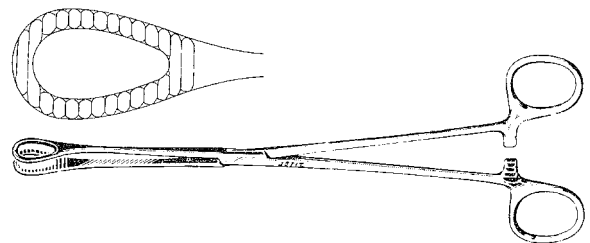
PEAN Forceps,
horizontal serrations

- 135-263** 12" (30.5cm), straight, jaw length 3½" (8.9cm)
- 135-266** 12" (30.5cm), curved, jaw length 3½" (8.9cm)
- 135-264** 14" (35.6cm), straight, jaw length 3½" (8.9cm)
- 135-267** 14" (35.6cm), curved, jaw length 3½" (8.9cm)



ROCHESTER-OCHSNER Forceps,

- 105-229** 12" (30.5cm), straight
- 105-228** 14" (35.6cm), straight



- 114-124** **FOERSTER** Sponge Forceps,
14" (35.6cm), straight, serrated



OPEN BARIATRIC SURGERY TISSUE FORCEPS

THUMB Forceps,
serrated

- 130-130 12" (30.5cm)
- 130-132 14" (35.6cm)



TISSUE Forceps,
1 x 2 teeth

- 130-180 12" (30.5cm)
- 130-182 14" (35.6cm)



RUSSIAN Tissue Forceps,

- 130-394 12" (30.5cm)
- 130-396 14" (35.6cm)



- 135-248 **SINGLEY** Tissue Forceps,
14" (35.6cm)

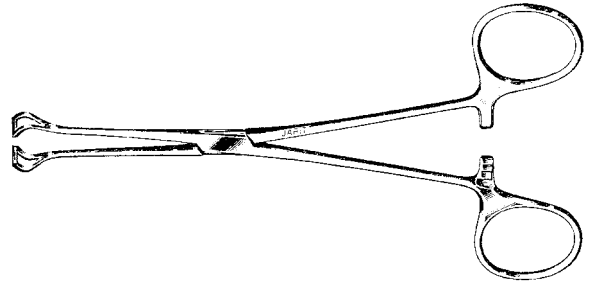




OPEN BARIATRIC SURGERY FORCEPS

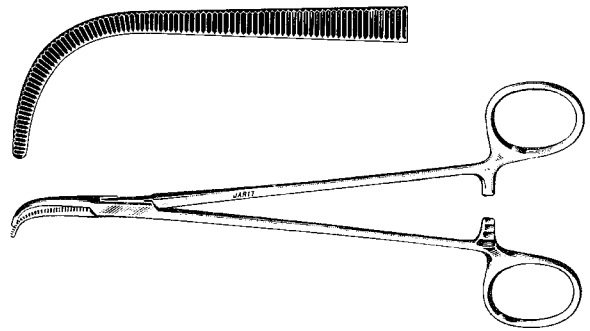
BABCOCK Tissue Forceps,

- 135-196 12" (30.5cm), jaw width 11mm
- 135-194 14" (35.6cm), jaw width 11.3cm



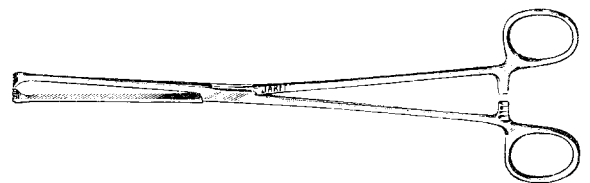
GEMINI Clamp, 14" (35.6cm)

- 140-335



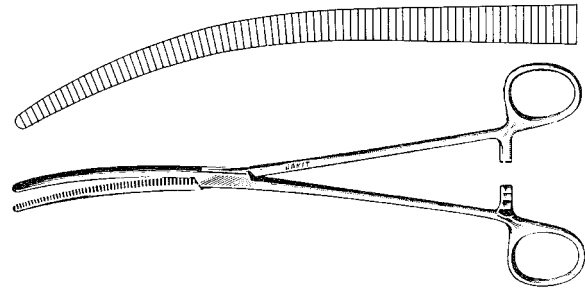
ALLIS-WILLAUER Tissue Forceps, 5 x 6 teeth

- 305-231 11¼" (28.6cm)
- 305-233 14" (35.6cm)

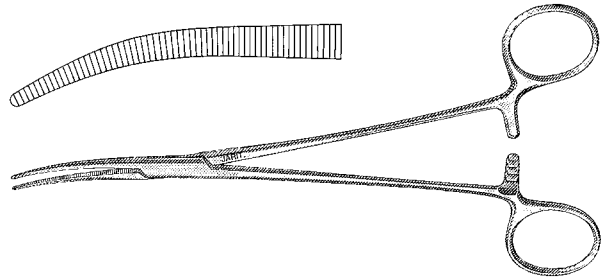




OPEN BARIATRIC SURGERY ARTERY/VASCULAR FORCEPS



305-366 SAROT Artery Forceps,
14" (35.6cm)



305-369 DEBAKEY-COLLIER Artery Forceps,
14" (35.6cm), horizontal serrations

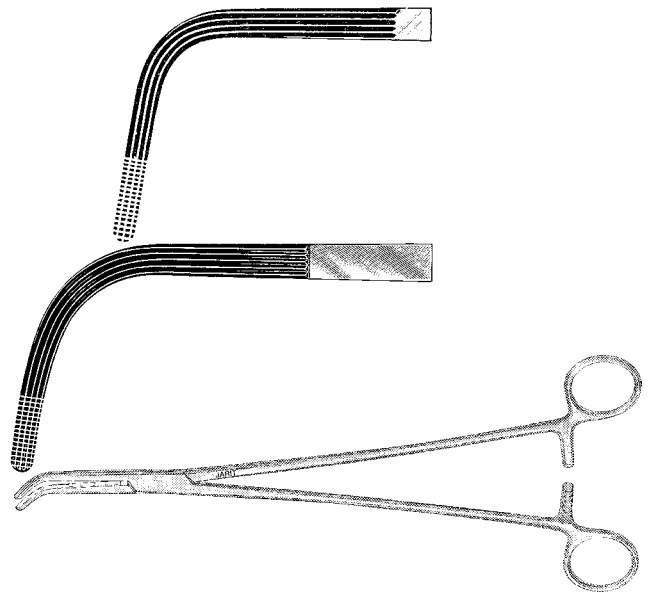


DEBAKEY Vascular Tissue Forceps,
CARDIO-GRIP, straight, tips 2mm wide

320-109 12" (30.5cm)

320-108 14" (35.6cm)

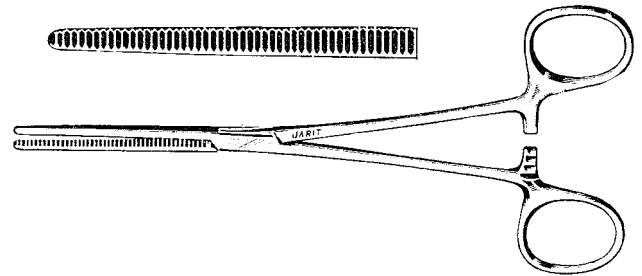




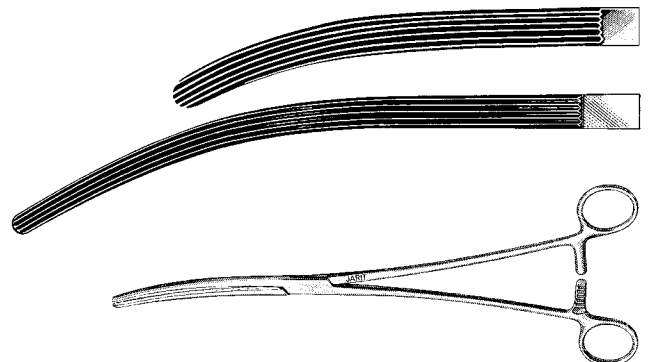
HARRINGTON Forceps,
right angled, light

305-395 12½" (31.8cm)

305-396 14" (35.6cm)



105-199 ROCHESTER-PEAN Forceps,
straight, mirror finish,
12" (30.5cm), straight



ROCHESTER-PEAN Forceps,
curved

305-398 12" (30.5cm), jaw length 3½" (8.9cm)

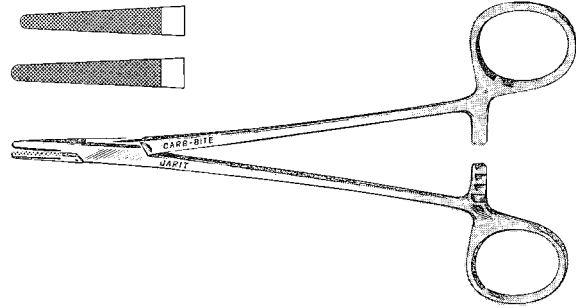
305-399 14" (35.6cm), jaw length 4½" (11cm)



OPEN BARIATRIC SURGERY NEEDLE HOLDERS

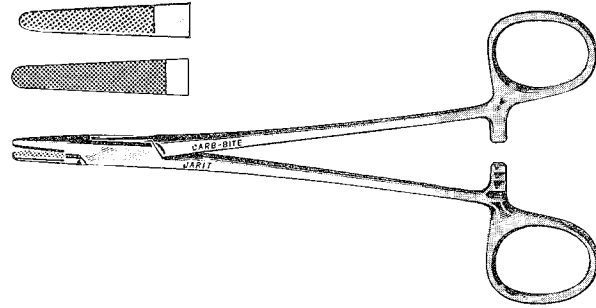
CRILE-WOOD Needle Holder,
CARB-BITE

- 121-129 12" (30.5cm)
- 121-128 14" (35.6cm)

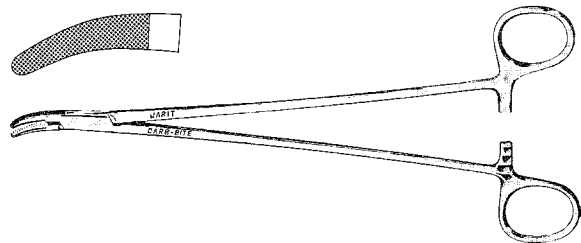


MAYO-HEGAR Needle Holder,
CARB-BITE

- 121-147 12" (30.5cm)
- 121-144 14" (35.6cm)



- 121-204 **HEANEY** Needle Holder,
CARB-BITE,
12" (30.5cm), curved





OPEN BARIATRIC SURGERY SUCTION TUBES AND RETRACTORS

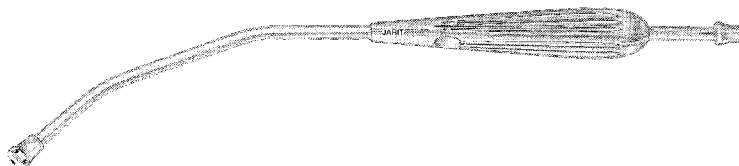
POOLE Suction Tubes,
straight, 32 French

170-103 12" (30.5cm)

170-104 15" (38cm)



170-117 **YANKAUR** Suction Tube,
15" (38cm)



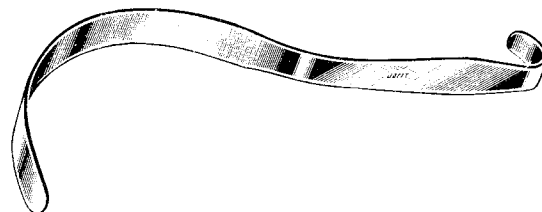
CUSHING Vein Retractor,
blade $\frac{3}{8}$ " x $\frac{3}{8}$ " (9.5 x 9.5mm)

200-136 11" (27.9cm)

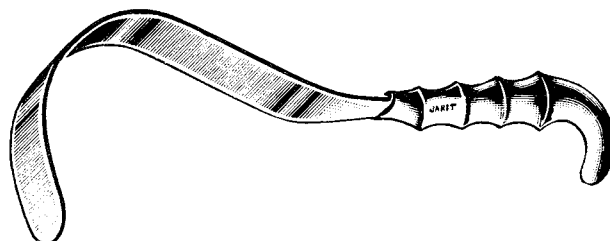
200-137 14" (35.6cm)

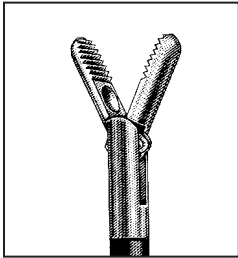


200-204 **DEAVER** Retractor,
1" wide x 14" long (2.5 x 35.6cm)



201-203 **DEAVER** Retractor,
hollow grip handle,
 $2\frac{1}{2}$ " wide x $14\frac{1}{2}$ " long (6.4 x 36.8cm)

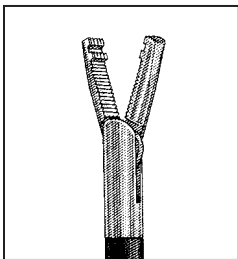


**Grasping Forceps,**

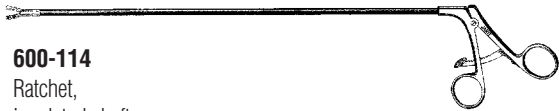
Straight, serrated jaws with proximal recess, double action.



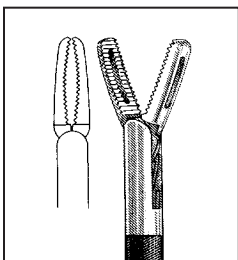
600-106
Monopolar,
5mm, 45cm

**Atrau-Allis Grasping Forceps,**

Unique jaw design offers strong atraumatic grasp, double action.



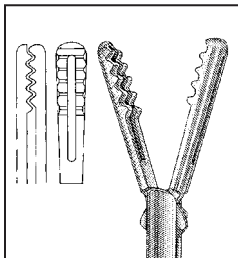
600-114
Ratchet,
insulated shaft,
5mm, 45cm

**Strong Forceps,**

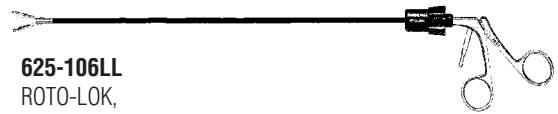
Fenestrated, serrated, oval-shaped jaws that converge at distal end to prevent slippage, double action.



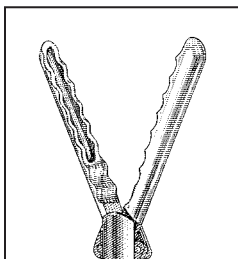
615-111
Monopolar,
5mm, 45cm



Grabber Forceps,
Long, fenestrated jaws with interlocking wave-like serrations for strong hold, double action.



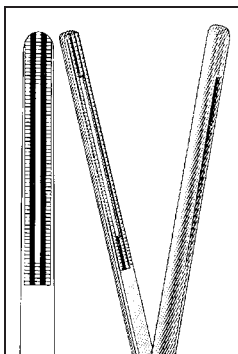
625-106LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 45cm



Fundus Grasping Forceps,
Long, beveled-edge jaws permit a large purchase of tissue and maintain a strong hold.



625-107D5
Double action,
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 45cm



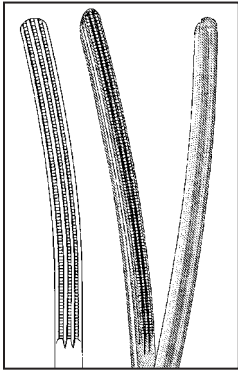
DeBakey Forceps,
Fenestrated 40mm long jaws with DeBakey-type teeth, double action.



625-140LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 45cm

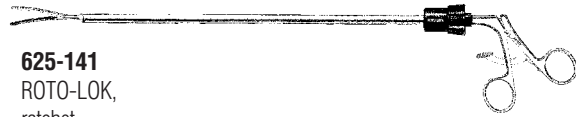


LAPAROSCOPIC BARIATRIC GRASPING FORCEPS

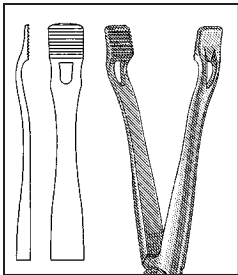


DeBakey Forceps, Curved

55mm long jaws with DeBakey-type teeth, double action.

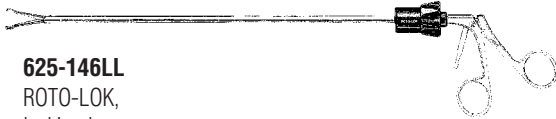


625-141
ROTO-LOK,
ratchet,
10mm, 37cm

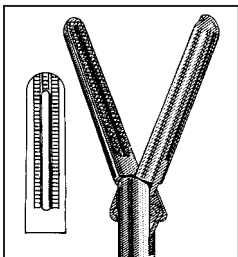


Paddle Babcock Forceps,

Flat paddles with fine, straight serrations for atraumatic hold of delicate tissue, double action.



625-146LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 45cm

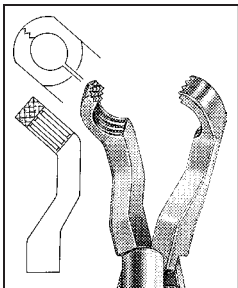


Hunter³ Bowel Grasper,

Fenestrated, 20mm jaws with DeBakey-type teeth for atraumatic manipulation of delicate tissue, e.g., bowel, stomach, double action.



625-165LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 45cm



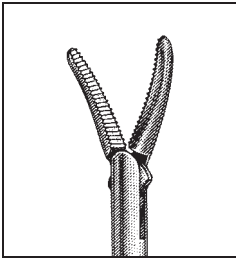
Anvil Grasping Forceps,

Jaws specially shaped to grasp and hold the anvil of a circular stapler.

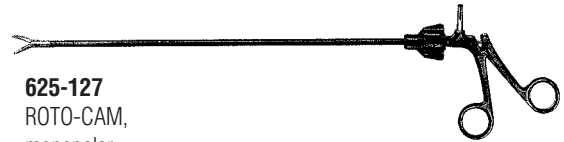


625-154
ROTO-LOK,
ratchet,
10mm, 37cm

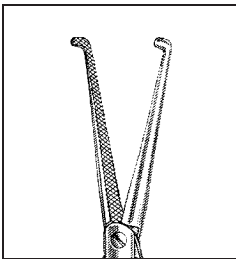
³ Developed in cooperation with John Hunter, M.D., FACS, Professor and Chairman, Department of Surgery, Oregon Health & Science University, Portland, Oregon.



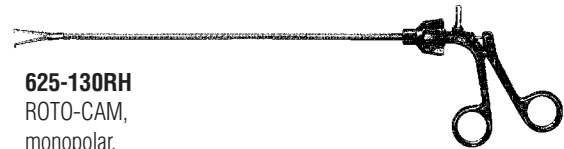
Maryland Dissector,
Curved, tapered, serrated jaws
with wide spread, double action.



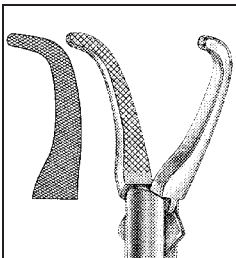
625-127
ROTO-CAM,
monopolar,
5mm, 45cm



Mixer Spreader-Dissector,
Jaw design offers a true right-angle
for dissection around delicate
structures; double action.



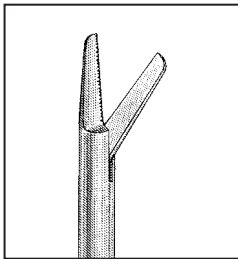
625-130RH
ROTO-CAM,
monopolar,
ring-handle,
5mm, 45cm



Right Angle Dissector,
Cross-serrated jaws
with full right angle;
double action

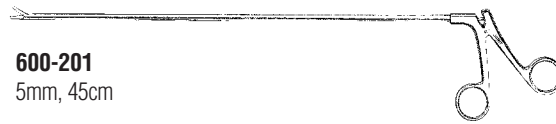


625-132
ROTO-CAM,
monopolar,
10mm, 36cm

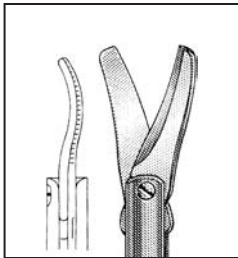


JARIT SUPERCUT Scissors,

Razor-sharp upper blade with finely-serrated lower blade allows clean, precise cut without tissue slippage.



600-201
5mm, 45cm



JARIT SUPERCUT Endo Scissors,

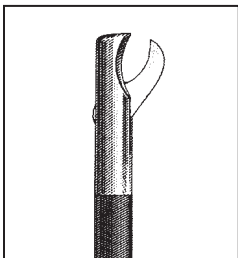
Electrosurgical instrument with curved, JARIT SUPERCUT blades and precise cutting action offers mechanical cutting, electrosurgical cutting, blunt dissection, electrosurgical coagulation—all in one reusable, cost-effective instrument; double action.



600-203
Monopolar,
5mm, 45cm



625-203
ROTO-CAM,
monopolar,
5mm, 45cm

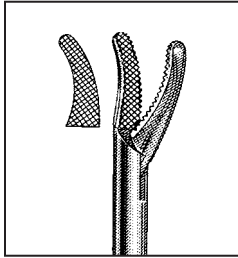


Hook Scissors,

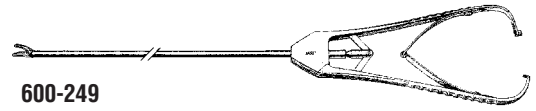
Blades designed to cut suture, extending the life of the dissecting scissors.



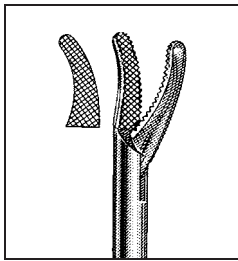
600-206
Monopolar,
5mm, 45cm


Appel⁴ Needle Holder,

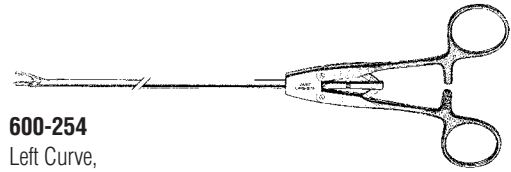
Tapered jaws stabilize the needle while allowing better visibility at the suture site; CARB-BITE jaws are designed for a firm, secure grip on the needle and long life of the instrument.



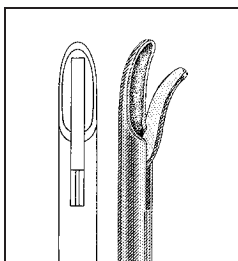
600-249
Left Curve,
5mm, 45cm


In-line CARB-BITE Needle Holder,

In-line ring handle offers a handle design similar to that used in open surgery with the same superior hold of needles.



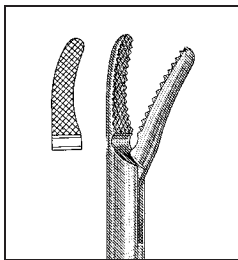
600-254
Left Curve,
5mm, 45cm


Romeo⁶ Self-Righting Needle Holder,

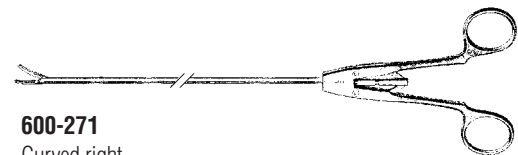
Up-curved, STARDUST jaws self-right curved needles; needles held very securely at any angle within the jaws.



600-267
Up-curve,
5mm, 45cm


Juliet Receiving Forceps,

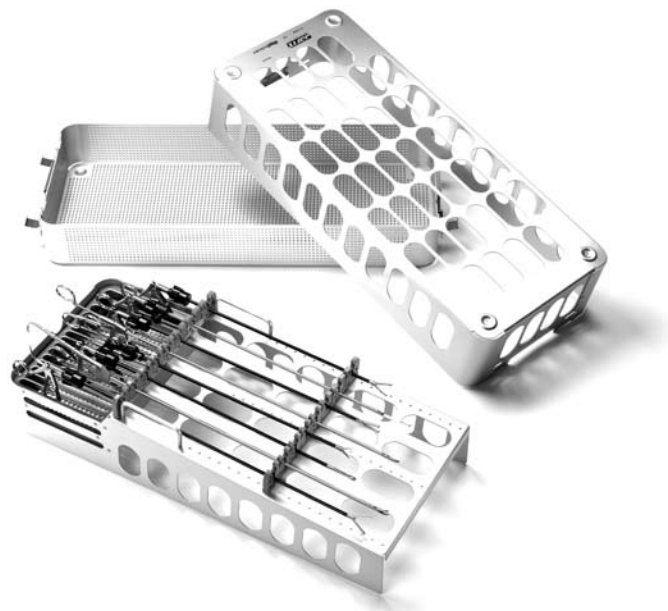
Right curved jaws with contained hinges facilitate intracorporeal knot tying; cross-serrated jaws for tissue control during suturing.



600-271
Curved right,
5mm, 45cm

⁴ Developed in cooperation with Sidney D. Appel, M.D., DeKalb Medical Center, Atlanta, Georgia.

⁶ Developed in cooperation with Professor M.D. Minelli, Hospital Sacro Cuore, Negrar (VR), Italy.



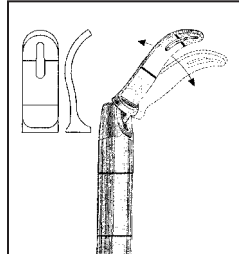
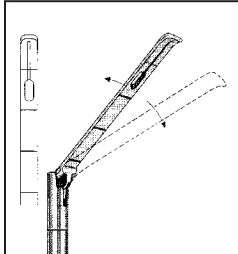
600-620 **JARIT** Laproscopic Bariatric Case,
Developed with the help of surgical technologists, the case assures that instruments stay in place during reprocessing, sterilization and transport.



LAPAROSCOPIC BARIATRIC SURGERY INSTRUMENTS

JARIT Articulators,

Articulate rapidly from 0° to 90°; bi-directional ROTO-LOK wheel.



Herron¹² Articulator Bar Retractor,

45mm straight arm for dissection and retraction; keyhole for holding suture (e.g. anvil placement).

Articulator Retractor,

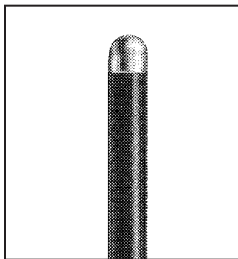
30mm S-shaped distal tip for atraumatic retraction of the esophagus; keyhole for maneuvering penrose drain or LAP-BAND[®] System.⁹

600-580

ROTO-LOK, locking lever, 5mm, 41cm

600-584

ROTO-LOK, locking lever, 10mm, 41cm



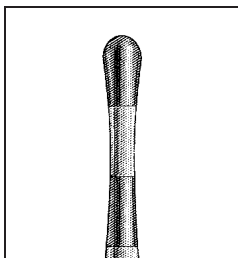
Ball Electrode,

Ball tip.



600-316

5mm, 37cm



Palpation Probe,

For atraumatic manipulation of tissue.



600-496

5mm, 45cm

⁹ A registered trademark of BioEnterics[®] Division, Inamed Corporation, 800-432-8803

¹² Developed in cooperation with Daniel M. Herron, M.D., F.A.C.S., Mount Sinai Hospital, NY, NY

Titanium Instruments

Titanium is a rare, lustrous metallic element which in its natural form is found in combination with other elements. The complex process of converting titanium ore into metal has been commercially viable only in the last 50 years. Titanium alloys have proven to be technically superior in a wide variety of applications in such fields as aerospace, architecture, watchmaking, and surgical implants.

Surgical instruments manufactured with a titanium alloy offer decided advantages, particularly for surgical procedures that require delicate precision.



- Greater strength
 - more durability than stainless steel
- 45% lighter weight than stainless steel offering the surgeon
 - precise and sensitive feel
 - more comfort and less hand fatigue
- Virtually non-magnetic
 - resists static build-up for superior needle handling ability
- Corrosion resistant
 - highly resistant to pitting and staining
- Blue anodization
 - reduces reflection under O.R. lights
 - allows for easy instrument identification
- Ease of processing
 - can be processed and sterilized with stainless steel



Advanced Features of JARIT Titanium Instruments



Needle holders with curved screw locks prevent snagging of suture and improve jaw stability



Counter-balanced handles on micro suture forceps for greater control



Round handles with micro structure surface allow accurate, controlled rotation between surgeons' fingers



Ratchets manufactured with a high degree of precision for extra-fine adjustment



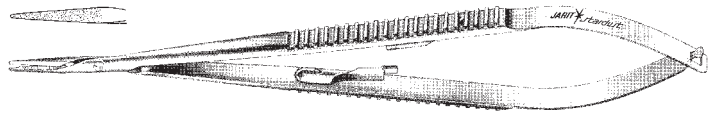
JARIT STARDUST[®], a unique metallurgical process, bonds tungsten carbide particles to the jaws assuring durability and a firm grip without damaging needles or suture



JARIT STARDUST instruments are manufactured with a unique metallurgical process that bonds tungsten carbide particles to the jaws. The jaw surfaces are smoothly textured for secure handling of delicate and micro surfaces. The extra hardness assures durability and a firm grip without damaging needles or suture.

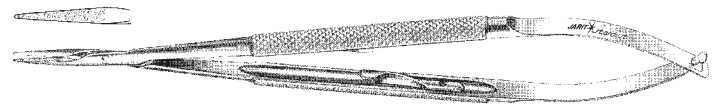
JARIT STARDUST, Needle Holders, tungsten carbide coated, straight, delicate jaws for 6-0 and 7-0 suture, flat handle with catch

- 278-080TI 7" (17.8cm)
- 278-082TI 8 1/4" (21cm)



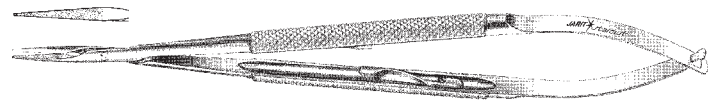
JARIT STARDUST, Needle Holders, tungsten carbide coated, straight, delicate jaws for 6-0 and 7-0 suture, round handle with catch

- 278-093TI 7 1/8" (18cm)
- 278-095TI 7 1/2" (20cm)
- 278-097TI 9 1/4" (25cm)



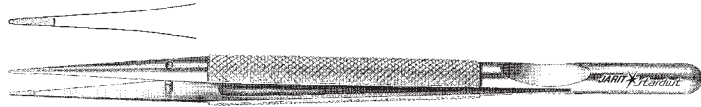
JARIT STARDUST, Needle Holders, tungsten carbide coated, straight, micro jaws for 8-0, 9-0 and 10-0 suture, round handle with catch

- 278-108TI 5 3/4" (14.6cm)
- 278-111TI 7 1/8" (18cm)
- 278-113TI 7 1/2" (20cm)



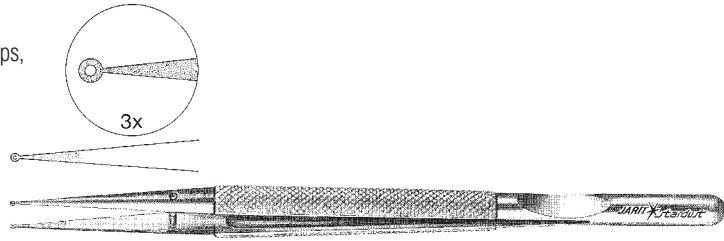
JARIT STARDUST Micro Suture Forceps, tungsten carbide coated, straight jaws with tying platform, round handles with counter-balance,

- 279-100TI 7¼" (18.4cm)
- 279-101TI 8¾" (21.3cm)
- 279-102TI 9" (23.2cm)



JARIT STARDUST Micro Ring Suture Forceps, tungsten carbide coated, ring jaws (1mm outer diameter, 0.5mm inner diameter), round handles with counter-balance,

- 279-110TI 7½" (18cm)
- 279-111TI 8¼" (21cm)
- 279-112TI 9" (22.9cm)



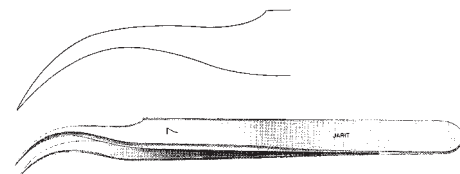
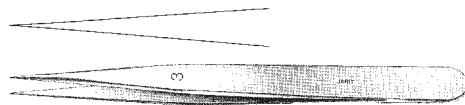
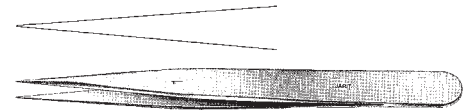
DEBAKEY Vascular Tissue Forceps, **CARDIO-GRIP®**, straight 1.8mm wide tips, round handle,

- 320-111TI 7½" (18cm)



DEBAKEY-DIETHRICH Coronary Artery Forceps, **CARDIO-GRIP**, straight 1.2mm wide tips, round handle,

- 320-113TI 6½" (15.6cm)
- 320-114TI 7½" (18cm)
- 320-115TI 8¼" (21cm)



JEWELERS Style Forceps,

- 355-170TI Style 1, fine, 4¾" (12cm)
- 355-171TI Style 3, very fine, 4¾" (12cm)
- 355-175TI Style 7, very fine, curved, 4¾" (11.8cm)

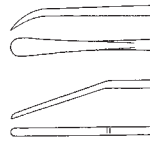
RHOTON-Type
Dissectors, round,
7½" (19cm)

- 277-260TI** 1mm blade, #1
- 277-261TI** 2mm blade, #2
- 277-262TI** 3mm blade, #3



RHOTON-Type
Elevators,
7½" (19cm)

- 277-263TI** Curved, #4
- 277-264TI** Angled, #5



RHOTON-Type
Spatula-Dissectors,
7½" (19cm)

- 277-265TI** Small, #6
- 277-266TI** Medium, #7
- 277-267TI** Large, #8



RHOTON-Type
Hooks,
7½" (19cm)

- 277-268TI** 90° angle, semi-sharp, #9
- 277-269TI** 90° angle, blunt, #10
- 277-270TI** 45° angle, semi-sharp, #11



RHOTON-Type
Needle,
7½" (19cm)

277-271TI Straight, #12



RHOTON-Type
Curettes,
7½" (19cm)

277-272TI Straight, #13

277-273TI Angled, #14



RHOTON-Type
Ball-Dissectors,
7½" (19cm)

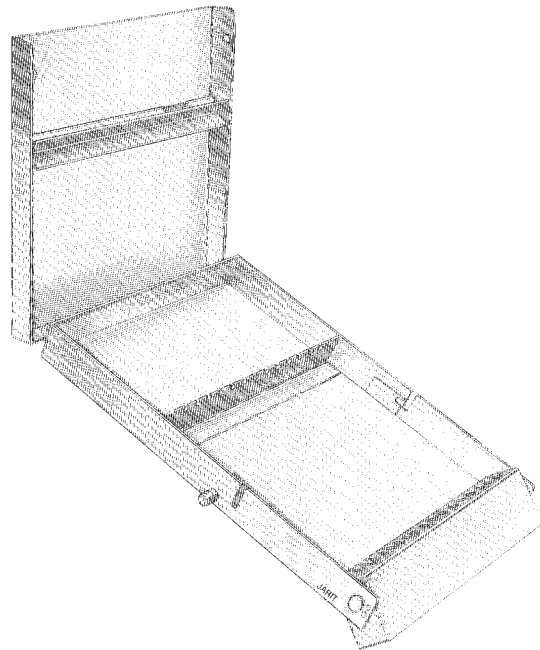
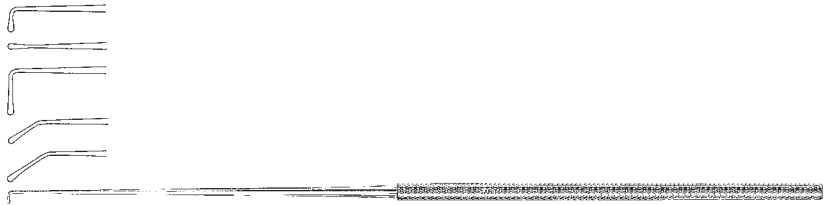
277-274TI 90° angle, 3mm, #15

277-276TI Straight, #16

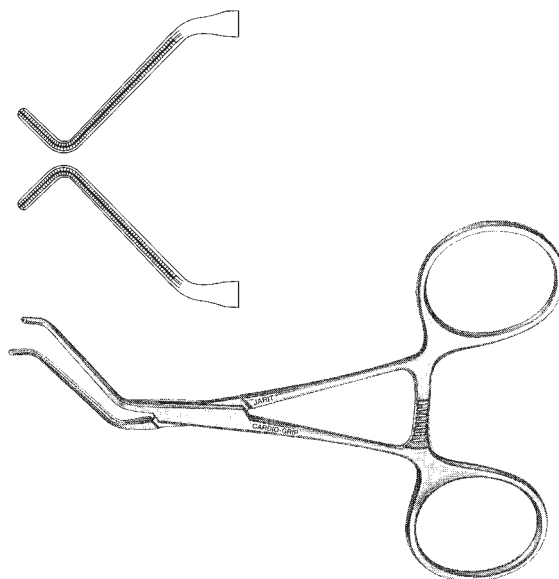
277-277TI 90° angle, 5mm, #17

277-278TI 40° angle, 4mm, #18

277-279TI 40° angle, 8mm, #19



277-275TI **RHOTON-Type**
Instrument Rack for sterilizing
and storing 19 instruments,
277-260TI through **277-279TI**



KITZMILLER Micro Clamps,
angled DeBailey jaws, 23mm jaw length,
4¼" (10.8cm)

- 320-540TI** Left angled
- 320-542TI** Right angled

Stringent quality standards are the most important aspect in the development of JARIT instruments. Endoscopic instruments are designed, manufactured and tested to provide surgeons with superior performance and dependability.

To assure durability, the instrument's hinge mechanism is pressure-tested at a minimum of 25 kilograms to withstand high flexion pressures. High-grade surgical stainless steel, used in the manufacture of all JARIT endoscopic instruments, offers high tensile strength and durability.

For effective and efficient processing, instruments are made with internal seals which occlude the full length of the inside of the instrument shaft. This lab-tested and validated design provides an internal barrier to body fluid and debris. To confirm electrosurgical safety, electrosurgical instruments are tested per AAMI American National Standard recommendation at 3,000 volts for monopolar instruments and 1,500 volts for bipolar instruments.

JARIT offers endoscopic instruments with a choice of features to meet both the preference of the surgeon and the economic demands of the hospital.

ROTATION

The ROTATOR design provides comfortable, single-handed, bi-directional rotation of the distal tip. The ROTATOR Instruments offer exclusive features to meet the technical requirements of blunt dissection, sharp dissection, and grasping. Precise German engineering, combined with handcrafted workmanship, has resulted in the exclusive features of the ROTO-LOK design for grasping forceps and the ROTO-CAM design for dissectors and scissors.

ROTO-LOK: When the traction/countertraction technique is applied during dissection, it is important that an effective grasp on tissue is maintained. If the instrument rotates freely, the distal tip could slip, making dissection difficult. With JARIT's unique ROTO-LOK feature, rotation locks into place once the tissue is grasped. The result is a secure grasp that will not slip or spin.

ROTO-CAM: The ROTO-CAM design for dissectors and scissors allows the surgeon to easily turn the rotating wheel, yet provides enough tension to prevent unnecessary movement. The design enables rotation in both open and closed positions to facilitate precise dissection.

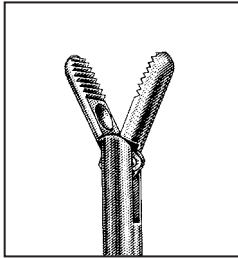
LOCKING MECHANISMS

Computer-generated production techniques employed in the precisely calibrated ratchet, hinge and locking mechanisms result in smooth, secure jaw closure.

RATCHET: The advanced design of the half-moon ratchet offers fine-teeth and a sturdy leaf-spring that is specially manufactured to maintain a firm hold.

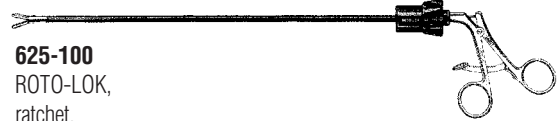
LOCKING LEVER: As an alternative to the ratchet, the sophisticated JARIT locking lever engages and releases easily, yet maintains a firm hold. The locking lever offers the surgeon the ability to open and close the jaws freely, locking only when the surgeon chooses to engage the lever. The unique internal design adds built-in strength for a long, useful life.

JARIT grasping forceps feature a pressure-tested hinge mechanism to assure strength and durability. Tissue is held firmly and securely. Precisely calibrated ratchets provide smooth, gradual closure of jaws. The easy-release locking lever offers the surgeon the ability to open and close the jaws freely, locking only when the lever is engaged.



Grasping Forceps

Straight, serrated jaws with proximal recess, double action.



625-100
ROTO-LOK,
ratchet,
insulated shaft,
5mm, 32cm



600-100
Ratchet,
insulated shaft,
5mm, 32cm



625-100LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 32cm

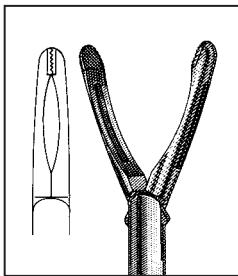


600-105
Monopolar,
5mm, 32cm

600-106
Monopolar,
5mm, 45cm



625-105
ROTO-CAM,
monopolar,
5mm, 32cm



TC Grasping Forceps

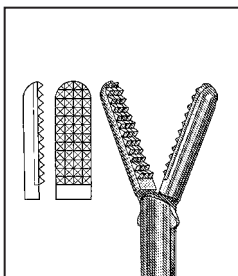
Uniquely designed grasping forceps feature double action CARB-BITE tips, 22mm long jaws maintain firm grasp on delicate tissue, double action.



625-102
ROTO-LOK,
ratchet,
insulated shaft,
5mm, 32cm



625-102LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 32cm



Strong TC Grasping Forceps

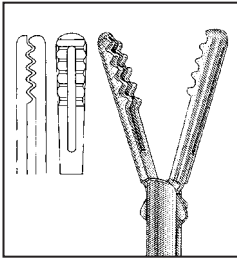
Heavy CARB-BITE inserts allow jaws to maintain firm hold on tissue, double action.



625-103
ROTO-LOK,
ratchet,
insulated shaft,
5mm, 37cm

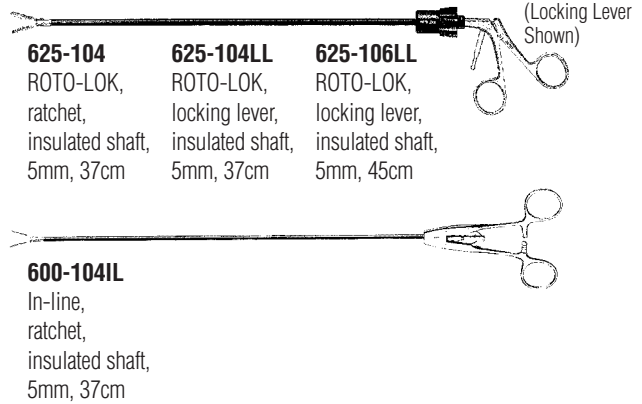


625-103LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 37cm



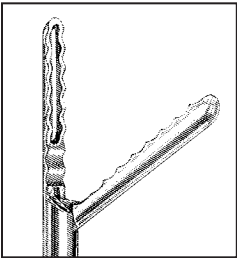
Grabber Forceps

Long, fenestrated jaws with interlocking wave-like serrations for strong hold, double action.



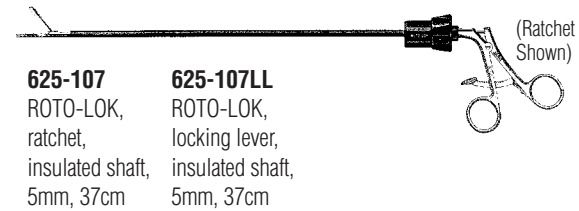
625-104 ROTO-LOK, ratchet, insulated shaft, 5mm, 37cm
625-104LL ROTO-LOK, locking lever, insulated shaft, 5mm, 37cm
625-106LL ROTO-LOK, locking lever, insulated shaft, 5mm, 45cm

600-104IL In-line, ratchet, insulated shaft, 5mm, 37cm

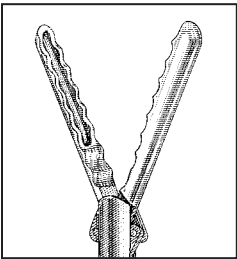


Fundus Grasping Forceps

Long, beveled-edge jaws permit a large purchase on tissue and maintain a strong hold.

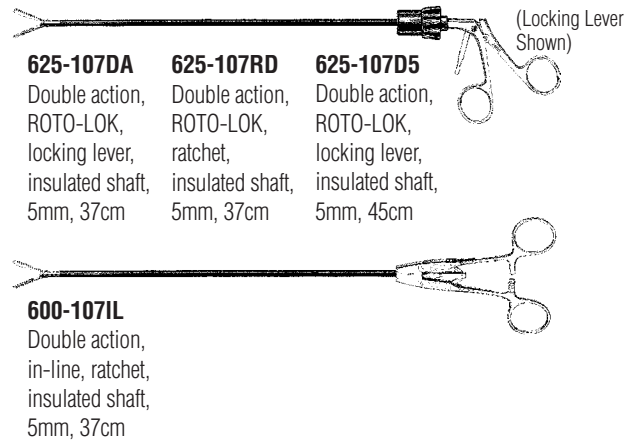


625-107 ROTO-LOK, ratchet, insulated shaft, 5mm, 37cm
625-107LL ROTO-LOK, locking lever, insulated shaft, 5mm, 37cm



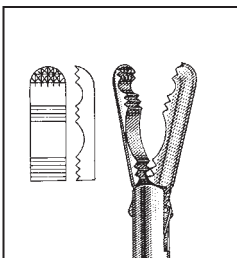
Dual-Cup Grasping Forceps

Double cup design increases surface area contact which improves hold on tissue, double action.



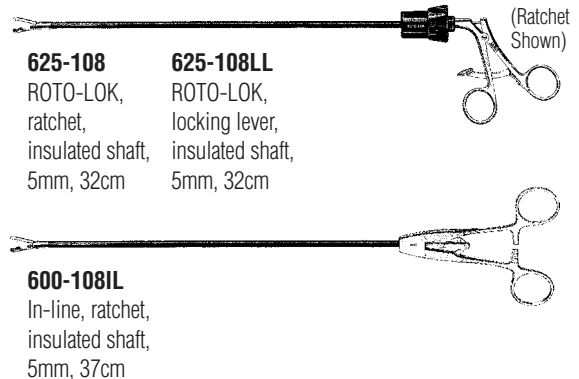
625-107DA Double action, ROTO-LOK, locking lever, insulated shaft, 5mm, 37cm
625-107RD Double action, ROTO-LOK, ratchet, insulated shaft, 5mm, 37cm
625-107D5 Double action, ROTO-LOK, locking lever, insulated shaft, 5mm, 45cm

600-107IL Double action, in-line, ratchet, insulated shaft, 5mm, 37cm



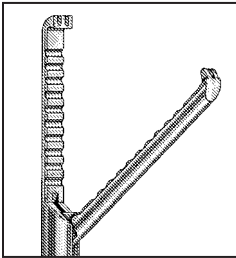
Dual-Cup Grasping Forceps

Double cup design increases surface area contact which improves hold on tissue, double action.



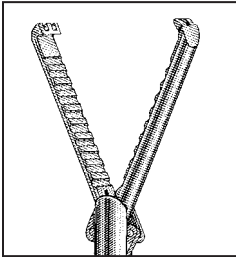
625-108 ROTO-LOK, ratchet, insulated shaft, 5mm, 32cm
625-108LL ROTO-LOK, locking lever, insulated shaft, 5mm, 32cm

600-108IL In-line, ratchet, insulated shaft, 5mm, 37cm



Retraction Grasping Forceps

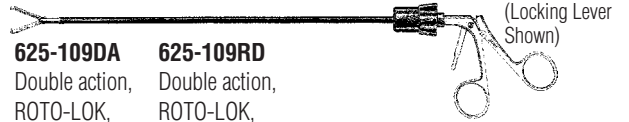
Long-ridged jaws with 2x3 blunt interdigitating teeth for strong grasp of heavy tissue.



625-109
ROTO-LOK,
ratchet,
insulated shaft,
5mm, 37cm

625-109LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 37cm

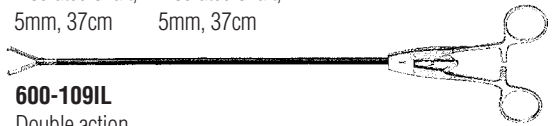
(Ratchet Shown)



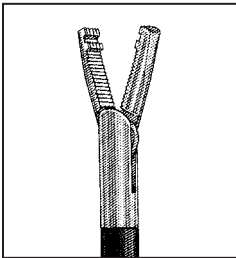
625-109DA
Double action,
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 37cm

625-109RD
Double action,
ROTO-LOK,
ratchet,
insulated shaft,
5mm, 37cm

(Locking Lever Shown)



600-109IL
Double action,
in-line, ratchet,
insulated shaft,
5mm, 37cm



Atrau-Allis Grasping Forceps

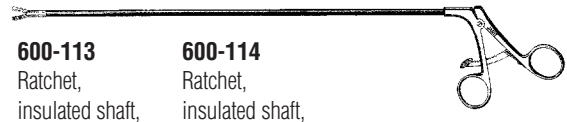
Unique jaw design offers strong atraumatic grasp, double action.



625-113
ROTO-LOK,
ratchet,
insulated shaft,
5mm, 32cm

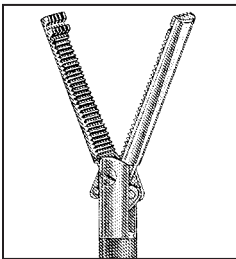
625-113LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 32cm

(Ratchet Shown)



600-113
Ratchet,
insulated shaft,
5mm, 32cm

600-114
Ratchet,
insulated shaft,
5mm, 45cm



Atrau-Allis LJ Grasping Forceps

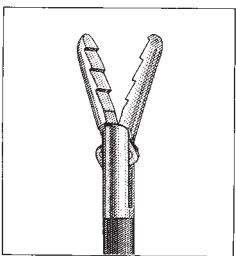
Unique jaw design in 20mm length offers strong atraumatic grasp, double action.



625-114
ROTO-LOK,
ratchet,
insulated shaft,
5mm, 37cm

625-114LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 37cm

(Locking Lever Shown)



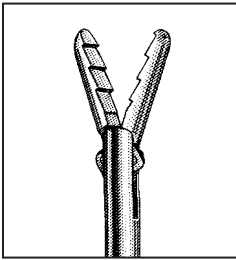
Retrograde Grasping Forceps

Retrograde, deep-serrated teeth allow for non-slip hold, double action.



600-116
ROTO-LOK,
ratchet,
insulated shaft,
5mm, 32cm

600-118
ROTO-LOK,
ratchet,
insulated shaft,
5mm, 45cm

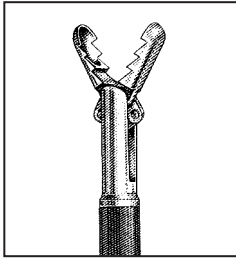


Retrograde Grasping Forceps

Retrograde, deep-serrated teeth allow for non-slip hold, double action.



600-119
Ratchet,
insulated shaft,
5mm, 32cm

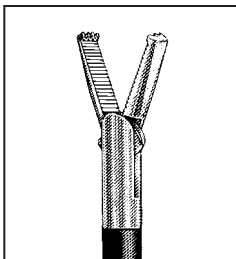


Grasping and Dissecting Forceps

Cup-shaped, toothed jaws, double action.



600-120
Monopolar,
5mm, 32cm



Allis Grasping Forceps

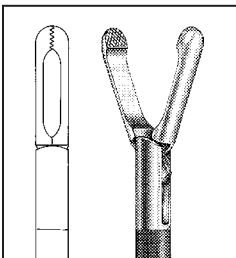
Interlocking distal teeth with fine-serrated inner jaws, double action.



600-122
Ratchet,
insulated shaft,
5mm, 32cm

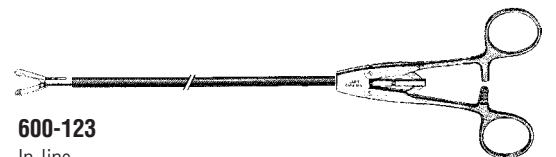


625-122
ROTO-LOK,
ratchet,
insulated shaft,
5mm, 32cm

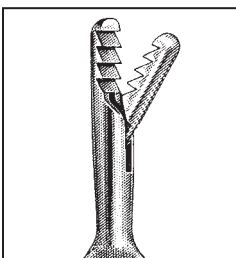


Winer¹ Grasping Forceps

Cross-serrated, disc-shaped jaws with wide opening between the jaws allow for an atraumatic yet extremely firm hold; in-line ratcheted handle.



600-123
In-line,
ratchet,
insulated shaft,
5mm, 33cm



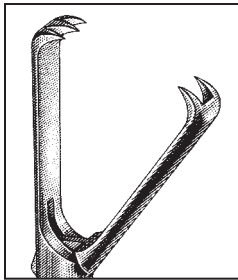
Grasping and Extracting Forceps

Retrograde, deep-serrated teeth.



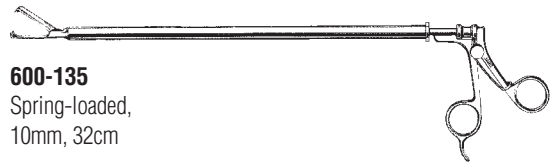
600-130
Spring-loaded,
10mm, 32cm

¹ Developed in cooperation with Wendy K. Winer, R.N., B.S.N., CNOR, Endoscopic Surgery Specialist, Atlanta, Georgia.

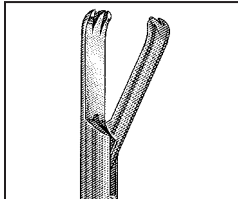


Claw Forceps

2x3 interlocking teeth for penetrating hold and extraction of tissue.



600-135
Spring-loaded,
10mm, 32cm

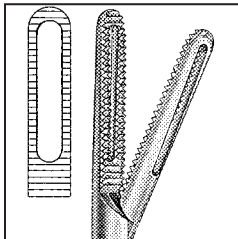


Claw Forceps

2x3 interlocking teeth for penetrating hold and extracting tissue.



600-137
Spring-loaded,
insulated shaft,
5mm, 32cm



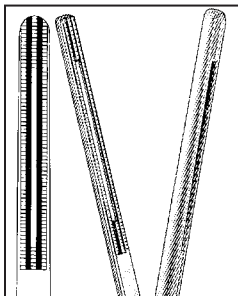
DJB Grasping Forceps

Wide fenestration and straight fine serrations of single action jaws results in a strong, atraumatic hold on tissue.



625-139 **625-139LL**
ROTO-LOK, ROTO-LOK,
ratchet, locking lever,
insulated shaft, insulated shaft,
5mm, 37cm 5mm, 37cm

(Locking Lever Shown)



DeBakey Forceps

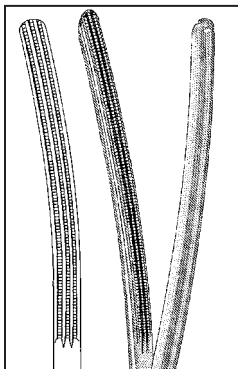
Fenestrated 40mm long jaws with DeBakey-type teeth, double action.



600-140
Ratchet,
insulated shaft,
5mm, 37cm

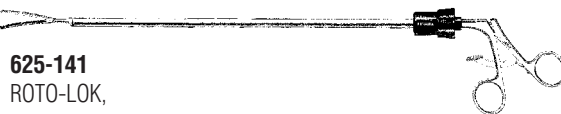


625-140LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 45cm

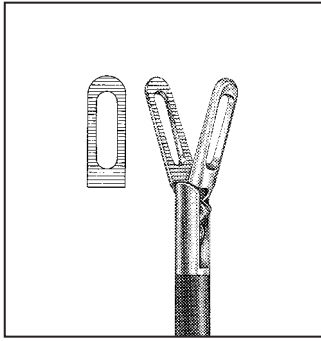


DeBakey Forceps, Curved

55mm long jaws with DeBakey-type teeth, double action.

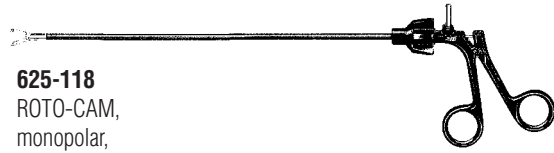


625-141
ROTO-LOK,
ratchet,
10mm, 37cm

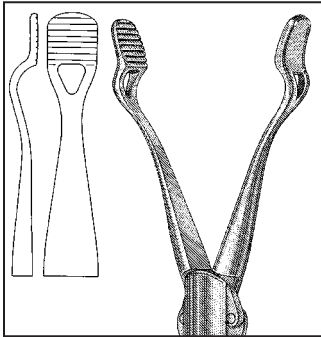


Duckbill Grasping Forceps

Wide fenestration and straight serrations of jaws offer strong, atraumatic hold of tissue.

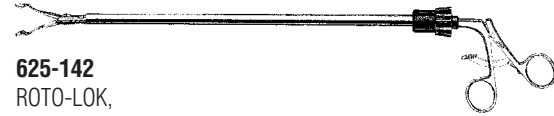


625-118
ROTO-CAM,
monopolar,
5mm, 35cm

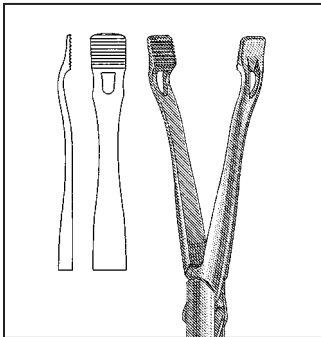


Paddle Babcock Forceps

Flat paddles with fine, straight serrations for atraumatic hold of delicate tissue, double action.

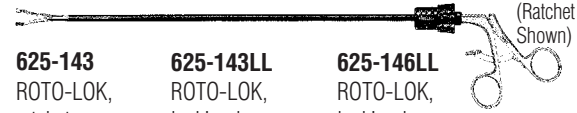


625-142
ROTO-LOK,
ratchet,
10mm, 37cm



Paddle Babcock Forceps

Flat paddles with fine, straight serrations for atraumatic hold of delicate tissue, double action.

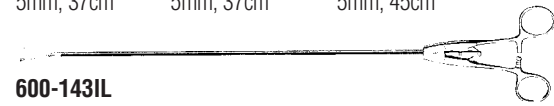


625-143
ROTO-LOK,
ratchet,
insulated shaft,
5mm, 37cm

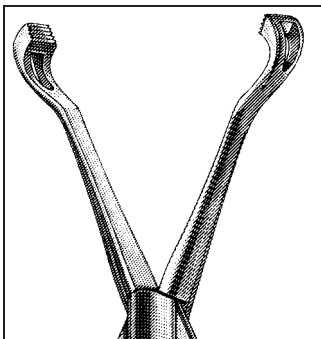
625-143LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 37cm

625-146LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 45cm

(Ratchet Shown)

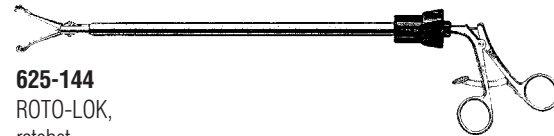


600-143IL
In-line,
insulated shaft,
ratchet,
5mm, 37cm

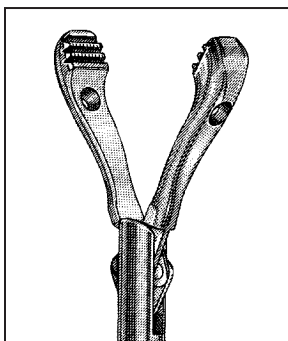


Babcock Forceps

Traditional style Babcock jaws designed with six rows of fine serrations for atraumatic, yet secure grasp of bowel and other delicate tissue, double action.

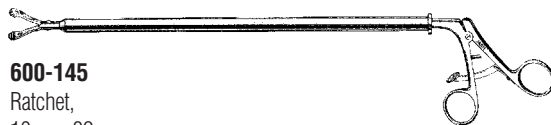


625-144
ROTO-LOK,
ratchet,
10mm, 37cm



Babcock Forceps

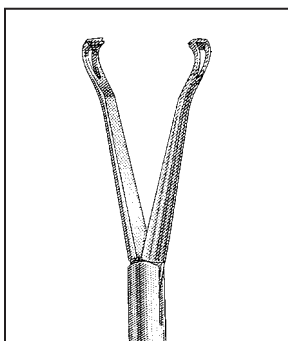
Rounded jaws with 2x3 rows of DeBakey-type teeth for atraumatic, yet secure grasp of bowel and other delicate tissue, double action.



600-145
Ratchet,
10mm, 32cm



625-145
ROTO-LOK,
ratchet,
10mm, 32cm



Babcock Forceps

Traditional design for grasping delicate tissue, double action.



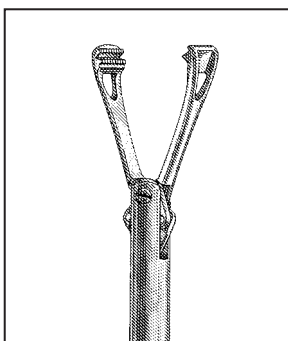
600-147
Ratchet,
insulated shaft,
5mm, 32cm



625-147
ROTO-LOK,
ratchet,
insulated shaft,
5mm, 37cm

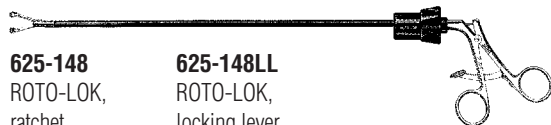
625-147LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 37cm

(Ratchet
Shown)



**Swanström²
Grasping Forceps**

Unique design of 1x2 DeBakey-type teeth with triangular fenestration provides an effective hold with atraumatic grasp, double action.



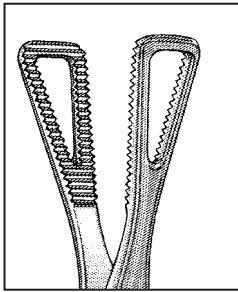
625-148
ROTO-LOK,
ratchet,
insulated shaft,
5mm, 37cm

625-148LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 37cm



600-148IL
In-line,
insulated shaft,
ratchet,
5mm, 37cm

² Developed in cooperation with Lee L. Swanström, M.D., F.A.C.S., Legacy Portland Hospital, Portland, Oregon.



Duval Grasping Forceps

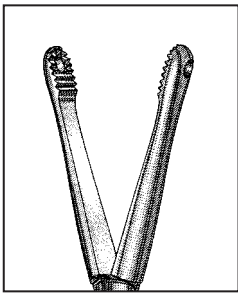
Triangular jaws with deep-serrated surfaces for non-slip, firm grasp of tissue, double action.



600-150
Ratchet,
10mm, 32cm

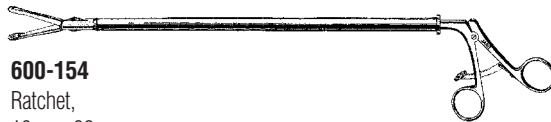


625-150
ROTO-LOK,
ratchet,
10mm, 32cm

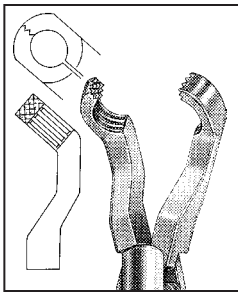


Russian Grasping Forceps

40mm long jaws with heavy serrations for effective tissue grasp, double action.



600-154
Ratchet,
10mm, 32cm

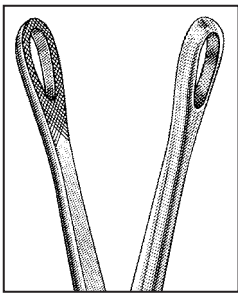


Anvil Grasping Forceps

Jaws specially shaped to grasp and hold the anvil of a circular stapler.



625-154
ROTO-LOK,
ratchet,
10mm, 37cm

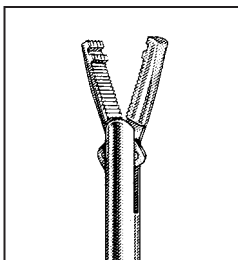


Foerster Sponge Forceps

45mm jaws firmly hold tissue, double action.



600-158
Ratchet,
10mm, 32cm



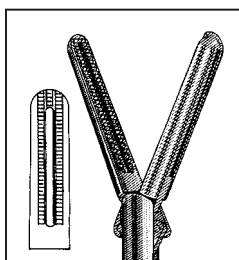
Hunter³ Clamp

Right-angle shaft with Atrou-Allis teeth for secure grasp and manipulation of tissue around structures, e.g. stomach/ esophagus in fundoplication, double action.



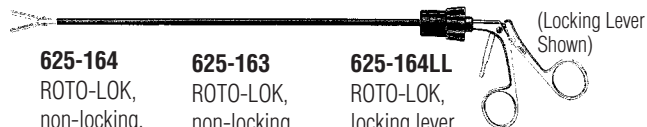
600-160
Ratchet,
5mm, 32cm

³ Developed in cooperation with John Hunter, M.D., FACS, Professor and Chairman, Department of Surgery, Oregon Health & Science University, Portland, Oregon.



Hunter³ Bowel Grasper

Fenestrated, 20mm jaws with DeBakey-type teeth for atraumatic manipulation of delicate tissue, e.g., bowel, stomach, double action.



(Locking Lever Shown)

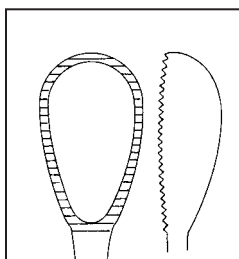
625-164
ROTO-LOK,
non-locking,
insulated shaft,
5mm, 37cm

625-163
ROTO-LOK,
non-locking,
insulated shaft,
5mm, 32cm

625-164LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 37cm

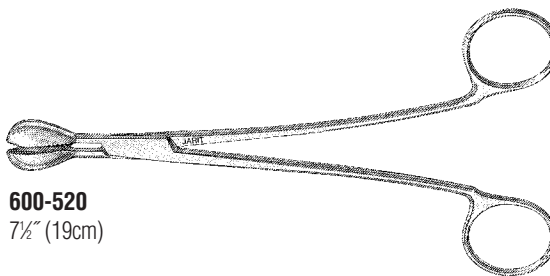
625-165LL
ROTO-LOK,
locking lever,
insulated shaft,
5mm, 45cm

600-164IL
In line,
non-ratcheted
insulated shaft,
5mm, 37cm

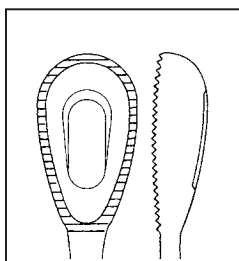


Stone Extractor

To facilitate stone removal once neck of gallbladder has been externalized.

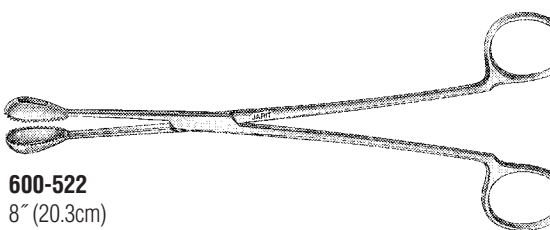


600-520
7½" (19cm)

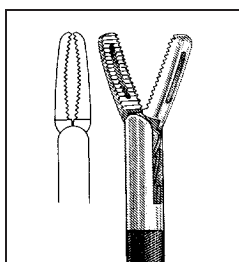


Lobe¹¹ Spleen Extractor

Open cupped jaws for extraction of the spleen during laparoscopic splenectomy.



600-522
8" (20.3cm)



Strong Forceps

Fenestrated, serrated, oval-shaped jaws that converge at distal end to prevent slippage, double action.



615-110
Monopolar,
5mm, 32cm

615-111
Monopolar,
5mm, 45cm

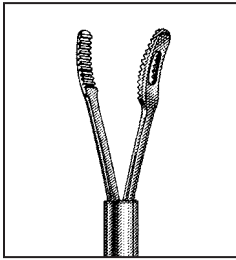


615-109
ROTO-LOK,
5mm, 32cm

³ Developed in cooperation with John Hunter, M.D., FACS, Professor and Chairman, Department of Surgery, Oregon Health & Science University, Portland, Oregon.

¹¹ Developed in cooperation with Thom E Lobe, MD, University of Tennessee, Memphis, Tennessee

For a complete listing of all Bariatric Surgery Instruments see pages 624-639.



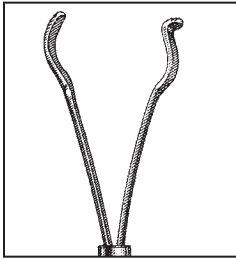
Strong Atraumatic Grasping Forceps

Fenestrated, serrated, curved jaws with split-steel construction, for fixation of ovary or manipulation of pelvic tissues.



615-113
Spring handle,
5mm, 32cm

615-114
Spring handle,
5mm, 45cm



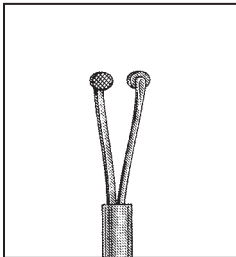
Grasping Forceps, Fallopian Tube

Curved jaws with split-steel construction for gentle grasping of fallopian tube.



615-116
Spring handle,
5mm, 32cm

615-118
Spring handle,
5mm, 45cm



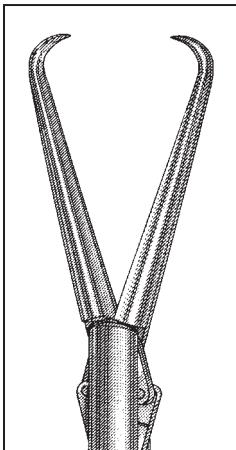
Bowel Forceps

Cross-serrated, disc-shaped jaws with split-steel construction.



615-143
Spring handle,
5mm, 32cm

615-144
Spring handle,
5mm, 45cm



Tenaculum Forceps

Single-toothed long jaws designed for grasp of thick tissue, double action.

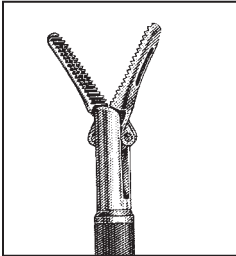


615-150
Ratchet,
10mm, 36cm

615-152
Ratchet,
insulated shaft,
5mm, 32cm

JARIT[®] DISSECTING FORCEPS

JARIT dissecting forceps are specially designed with the varied needs and preferences of the surgeon in mind — from fine, precise dissection around delicate tissue to gross dissection of large structures.

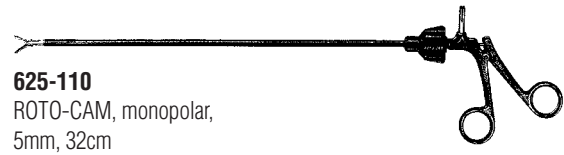


Micro Dissecting Forceps

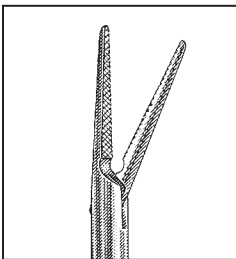
Delicate, fenestrated, serrated jaws for gentle blunt dissection, double action.



600-110
Monopolar,
5mm, 32cm



625-110
ROTO-CAM, monopolar,
5mm, 32cm

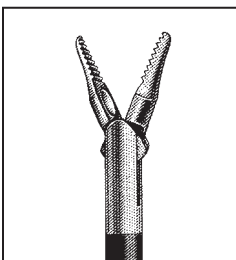


Needle Nose Forceps

Slender, tapered and fine-serrated jaws.



600-112
Monopolar,
5mm, 32cm



Tapered Dissecting Forceps

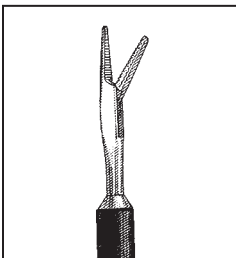
Tips of serrated, tapered jaws meet at fine point to allow delicate, yet firm, grasp and dissection of thin adventitial tissue, double action.



600-115
Monopolar,
5mm, 32cm



625-115
ROTO-CAM,
monopolar,
5mm, 32cm



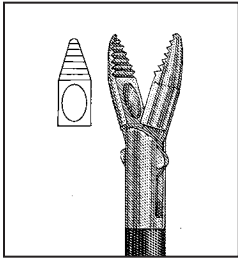
Micro Grasping Forceps

3mm small, tapered jaws for dissection of small structures.



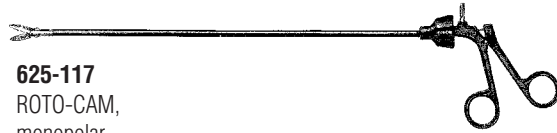
600-117
Monopolar,
5mm, 32cm

JART® DISSECTING FORCEPS

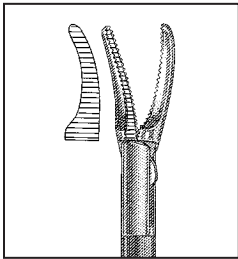


Bullet-Nose Dissecting Forceps

Bullet-shaped, tapered, serrated jaws for dissection, double action.

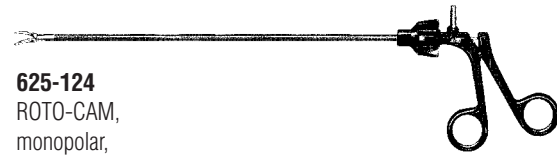


625-117
ROTO-CAM,
monopolar,
5mm, 32cm

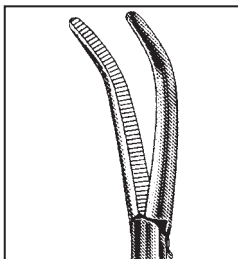


Tapered Maryland Dissector

Curved, finely-tapered, serrated jaws with wide spread, double action.



625-124
ROTO-CAM,
monopolar,
5mm, 32cm

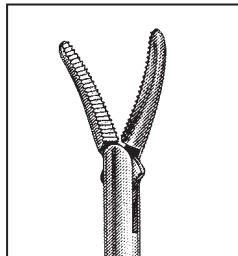


Maryland Dissector

Slender, full-curved, long, serrated jaws with wide spread, double action.



625-125
ROTO-CAM,
monopolar,
10mm, 32cm



Maryland Dissectors

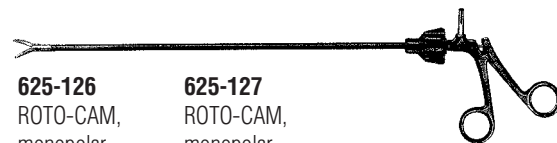
Curved, tapered, serrated jaws with wide spread, double action.



600-126
Monopolar,
5mm, 32cm



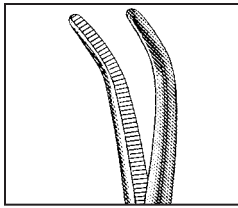
600-125
Monopolar,
10mm, 32cm



625-126
ROTO-CAM,
monopolar,
5mm, 32cm

625-127
ROTO-CAM,
monopolar,
5mm, 45cm

JATI **DISSECTING FORCEPS AND HOOK**

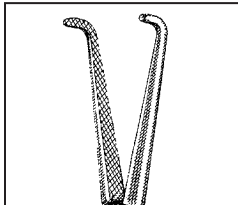


Mixer Dissecting Forceps

Slender, full-curved, long, serrated jaws with wide spread, double action.



600-127
10mm, 32cm



Mixer Spreader-Dissectors

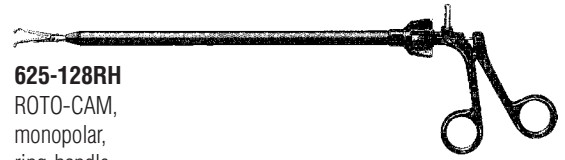
Jaw design offers a true right-angle for dissection around delicate structures; double action. The distinctive ergonomic handle minimizes hand fatigue while allowing the surgeon fine control for precise dissection.



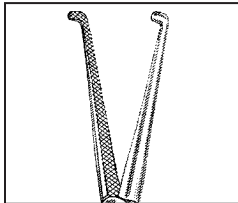
625-128
ROTO-CAM, monopolar, 10mm, 32cm



600-128
10mm, 32cm

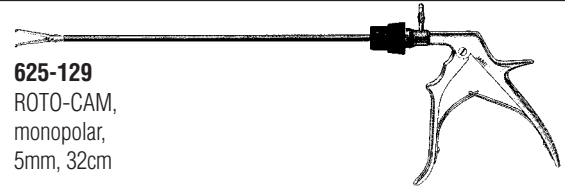


625-128RH
ROTO-CAM, monopolar, ring-handle, 10mm, 32cm



Mixer Spreader-Dissectors

Jaw design offers a true right-angle for dissection around delicate structures; double action. The distinctive ergonomic handle minimizes hand fatigue while allowing the surgeon fine control for precise dissection.

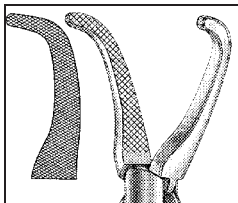


625-129
ROTO-CAM, monopolar, 5mm, 32cm



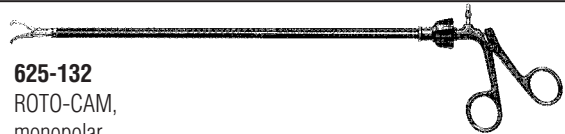
625-129RH
ROTO-CAM, monopolar, ring-handle, 5mm, 32cm

625-130RH
ROTO-CAM, monopolar, ring-handle, 5mm, 45cm

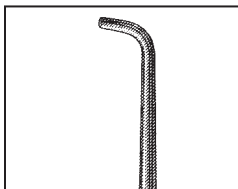


Right Angle Dissector

Cross-serrated jaws with full right angle; double action



625-132
ROTO-CAM, monopolar, 10mm, 36cm



Appel⁴ Dissecting Hook

Right-angle tip allows rapid blunt dissection and isolation of structures.

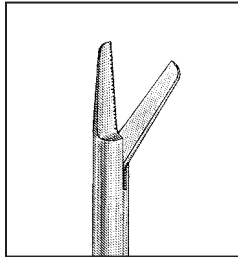


600-500
10mm, 40cm

⁴ Developed in cooperation with Sidney D. Appel, M.D., DeKalb Medical Center, Atlanta, Georgia.

The JARIT scissors line was developed by utilizing advanced metallurgy, as well as innovative methods of grinding and sharpening. The result — scissors that cut cleanly and stay sharp.

The exclusive JARIT SUPERCUT blade is razor sharp and glides effortlessly through tissue with a clean, precise cut. The finely-serrated lower blade helps prevent tissue slippage.

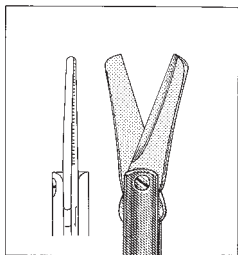


JARIT SUPERCUT Scissors

Razor-sharp upper blade with finely-serrated lower blade allows clean, precise cut without tissue slippage.



600-200 5mm, 32cm
600-201 5mm, 45cm

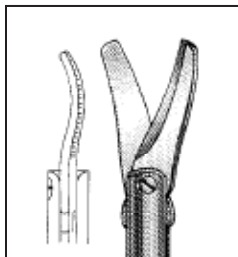


JARIT SUPERCUT Endo Scissors

Electrosurgical instrument with straight, JARIT SUPERCUT blades and precise cutting action offers mechanical cutting, electrosurgical cutting, blunt dissection, electrosurgical coagulation—all in one reusable, cost-effective instrument; double action.

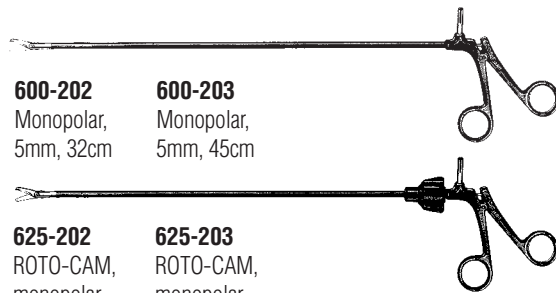


625-201
 Monopolar,
 5mm, 32cm



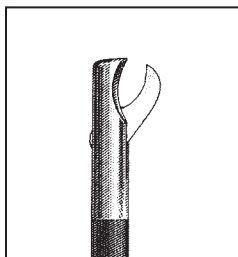
JARIT SUPERCUT Endo Scissors

Electrosurgical instrument with curved, JARIT SUPERCUT blades and precise cutting action offers mechanical cutting, electrosurgical cutting, blunt dissection, electrosurgical coagulation—all in one reusable, cost-effective instrument; double action.



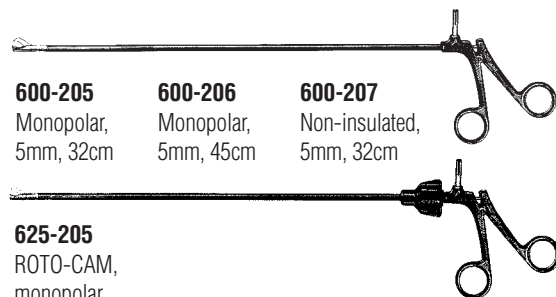
600-202 Monopolar, 5mm, 32cm
600-203 Monopolar, 5mm, 45cm

625-202 ROTO-CAM, monopolar, 5mm, 32cm
625-203 ROTO-CAM, monopolar, 5mm, 45cm



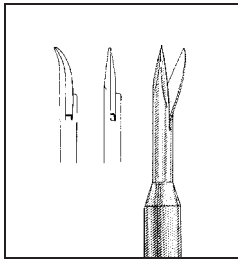
Hook Scissors

Blades designed to lift, isolate and transect tissue.



600-205 Monopolar, 5mm, 32cm
600-206 Monopolar, 5mm, 45cm
600-207 Non-insulated, 5mm, 32cm

625-205
 ROTO-CAM, monopolar, 5mm, 32cm



Micro Scissors

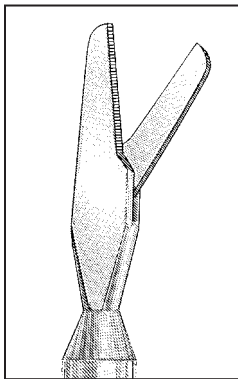
Fine, delicate, 3mm blades for small incision.



600-210
Curved Left,
5mm, 32cm



600-212
Straight,
5mm, 32cm

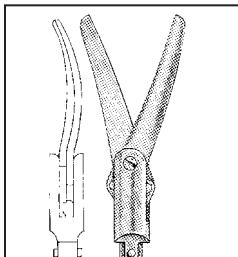


Mayo Operating Scissors

Large, sturdy blades for incising heavy tissue.



600-220
10mm, 32cm

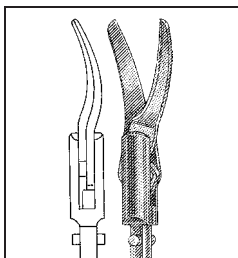


Metzenbaum Scissors

Long, curved, tapered blades with wide spread, double action.



625-230
ROTO-CAM,
monopolar,
5mm, 32cm



Mini Scissors

Curved, tapered, delicate blades, double action.



625-240
ROTO-CAM,
monopolar,
5mm, 32cm

Meeting the Challenge of Cost Containment with Quality

The JARIT DETACH Scissors System provides the surgeon with reusable endoscopic scissors having the same superior, long-lasting blades that have become JARIT's hallmark. The two-part JARIT DETACH System easily separates into a handle/shaft component and a scissors insert. Using backup inserts, which represent only 25% of the cost of a complete JARIT DETACH instrument, substantial cost savings are achieved.

The JARIT DETACH System offers many different scissors patterns to meet the endoscopic requirements of sharp dissection. Each reusable endoscopic scissors offers mechanical cutting, electro-surgical coagulation and ergonomic rotation — all in one high-quality, cost-effective instrument. For easy cleaning, a cleaning brush is included with each instrument.



DETACH Scissors Insert

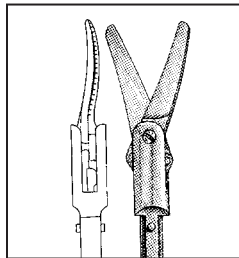
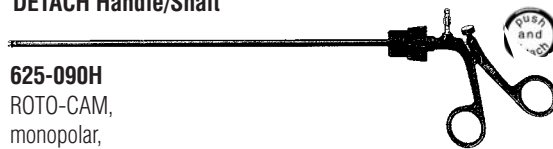
625-0903

Cleaning brushes, pkg/6

DETACH Handle/Shaft

625-090H

ROTO-CAM,
monopolar,
5mm, 32cm



**JARIT SUPERCUT
DETACH Scissors**

Unique JARIT SUPERCUT blade has a finely-serrated lower blade that helps prevent tissue slippage; curved blades meet the contour of structures while the blunt-shaped distal tip allows tissue manipulation and cauterization with blades closed; double action.



625-202E

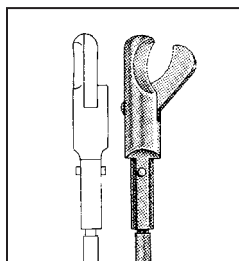
ROTO-CAM,
monopolar,
5mm, 32cm

625-202N

Insert,
5mm, 32cm

625-2023

Insert,
5mm, 32cm,
pkg/3



Hook DETACH Scissors

Classic hook blades designed to lift, isolate and transect tissue.



625-205E

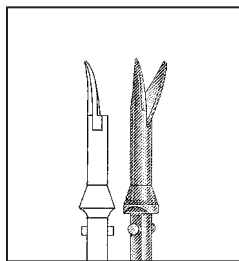
ROTO-CAM,
monopolar,
5mm, 32cm

625-205N

Insert,
5mm, 32cm

625-2053

Insert,
5mm, 32cm,
pkg/3



**Micro DETACH Scissors
Curved**

Delicate, sharp-sharp,
curved blades



625-210E

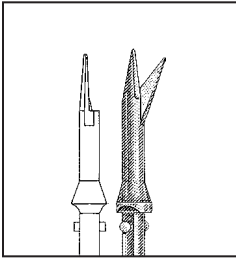
ROTO-CAM,
monopolar,
5mm, 32cm

625-210N

Insert,
5mm, 32cm

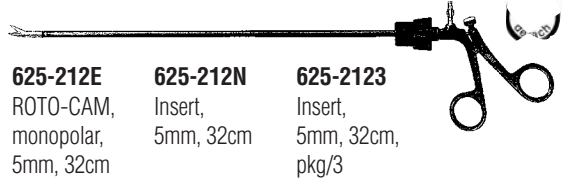
625-2103

Insert,
5mm, 32cm,
pkg/3



Micro DETACH Scissors Straight

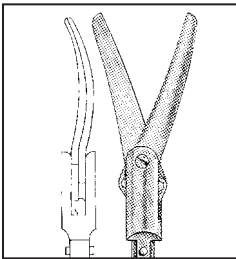
Delicate, sharp-sharp, straight blades



625-212E
ROTO-CAM,
monopolar,
5mm, 32cm

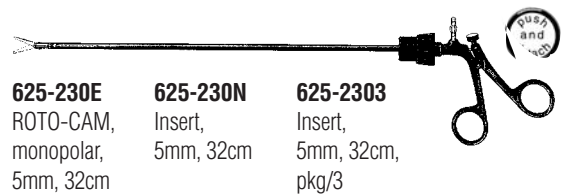
625-212N
Insert,
5mm, 32cm

625-2123
Insert,
5mm, 32cm,
pkg/3



Metzenbaum DETACH Scissors

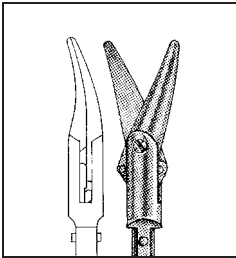
Long, curved, tapered blades with wide spread, double action.



625-230E
ROTO-CAM,
monopolar,
5mm, 32cm

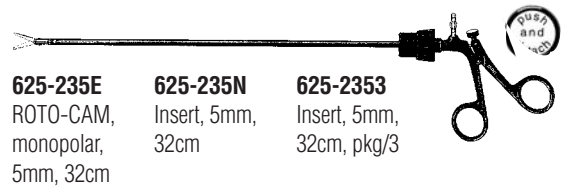
625-230N
Insert,
5mm, 32cm

625-2303
Insert,
5mm, 32cm,
pkg/3



"Baby" Metzenbaum DETACH Scissors

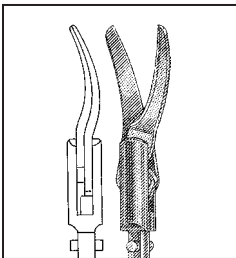
Shorter, curved, very tapered blades reach more narrow and delicate dissection areas, double action.



625-235E
ROTO-CAM,
monopolar,
5mm, 32cm

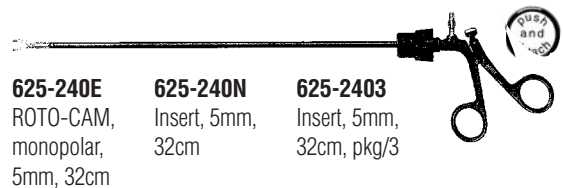
625-235N
Insert, 5mm,
32cm

625-2353
Insert, 5mm,
32cm, pkg/3



Mini DETACH Scissors

Curved, tapered, delicate blades, double action.



625-240E
ROTO-CAM,
monopolar,
5mm, 32cm

625-240N
Insert, 5mm,
32cm

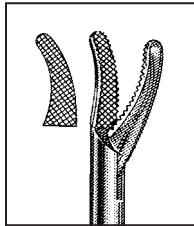
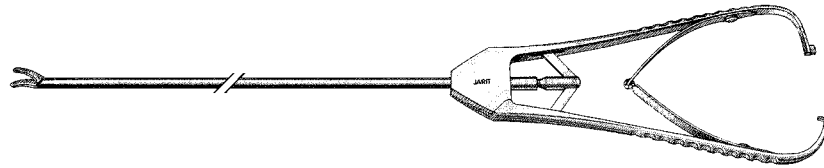
625-2403
Insert, 5mm,
32cm, pkg/3

The difficult task of endoscopic suturing is made easier with JARIT's Ligation Line of unique instruments for both intracorporeal and extracorporeal suturing. The line features the Appel⁴ Needle Holders, which give the surgeon improved control of curved needles. These high quality endoscopic instruments offer an ergonomically designed handle that places the surgeon's hand in line with the needle, resulting in a natural suturing motion, along with a leaf-spring mechanism that is engaged with speed and ease. The curved, tapered jaws permit fine control of the needle together with improved visibility at the suture site. JARIT's CARB-BITE jaws allow for a firm, secure grip on the needle and long, useful life of the instrument. Alternative needle holder options include the In-line ring-handle Needle Holder and the Self-righting Romeo⁶ Needle Holder.

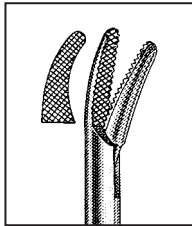
Also featured are the Lyons⁵ Needle Forceps and Juliet Receiving Forceps. These unique instruments are specially designed to work in conjunction with the needle holder to achieve an efficient endoscopic suturing technique. Functioning as a tissue forceps, the tapered jaws grasp and retract tissue for needle placement without obstructing visualization. Functioning as a receiver, the driven needle is grasped at the tip. The design then allows the needle to be easily repositioned within the jaw for re-grasping by the needle holder at the appropriate angle.

Appel⁴ Needle Holders

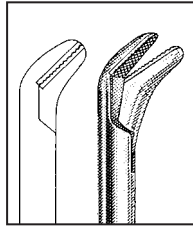
Tapered jaws stabilize the needle while allowing better visibility at the suture site; CARB-BITE jaws are designed for a firm, secure grip on the needle and long life of the instrument.



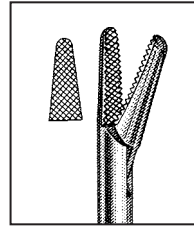
600-250
Left Curve, 5mm, 32cm



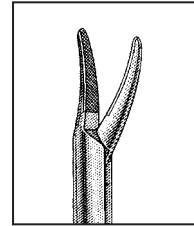
600-252
Right Curve, 5mm, 32cm



600-255
Up-Angle, 10mm, 32cm



600-260
Straight, 5mm, 32cm

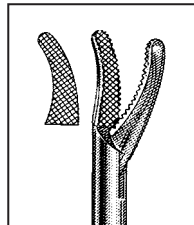
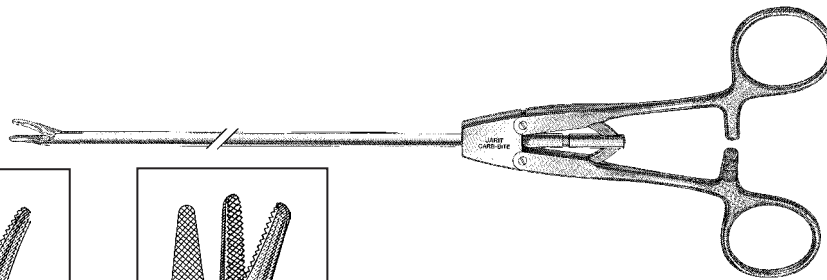


600-264
Micro, Left Curve, 5mm, 32cm

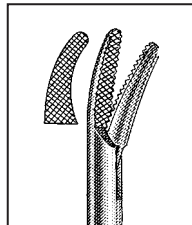
600-249
Left Curve, 5mm, 45cm

In-line CARB-BITE Needle Holders

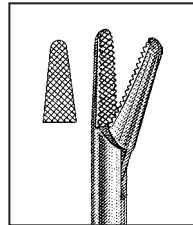
In-line ring handle offers a handle design similar to that used in open surgery with the same superior hold of needles.



600-251
Left Curve, 5mm, 32cm



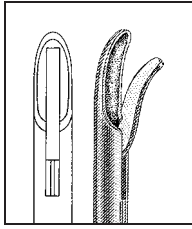
600-253
Right Curve, 5mm, 32cm



600-261
Straight, 5mm, 32cm

600-254
Left Curve, 5mm, 45cm

⁴ Developed in cooperation with Sidney D. Appel, M.D., DeKalb Medical Center, Atlanta, Georgia.
⁵ Developed in cooperation with Thomas L. Lyons, M.D., F.A.C.O.G., Atlanta, Georgia.
⁶ Developed in cooperation with Professor M.D. Minelli, Hospital Sacro Cuore, Negrar (VR), Italy.



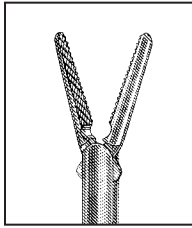
Romeo⁶ Self-Righting Needle Holder

Up-curved, STARDUST jaws self-right curved needles; needles held very securely at any angle within the jaws.



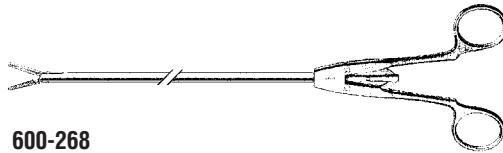
600-266
Up-curve,
5mm, 32cm

600-267
Up-curve,
5mm, 45cm

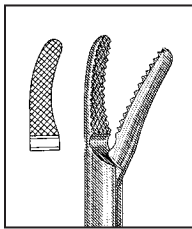


Lyons⁵ Needle Forceps

Tapered, cross-serrated jaws grasp and retract tissue for needle placement without obstructing visualization; allows the needle to be easily repositioned within the jaw for re-grasping by the needle holder at the appropriate angle; in-line handle places hand in same line as that with needle holder for more efficient suturing process, double action.



600-268
5mm, 32cm



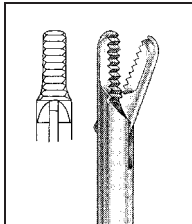
Juliet Receiving Forceps

Right curved jaws with contained hinges facilitate intracorporeal knot tying; cross-serrated jaws for tissue control during suturing.



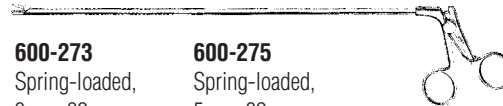
600-269
Curved right,
5mm, 32cm

600-271
Curved right,
5mm, 45cm



Needle Holders

Straight serrations on jaws designed to grasp straight needle securely.



600-273
Spring-loaded,
3mm, 32cm

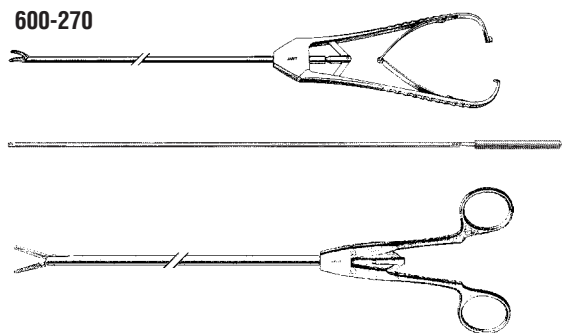
600-275
Spring-loaded,
5mm, 32cm

JARIT Suturing Set

The JARIT Suturing Set offers instruments required for endoscopic suturing. The standard set, provided in a wooden case includes:

- Appel⁴ Needle Holder (600-250)
- Lyons⁵ Needle Forceps (600-268)
- Knot Pusher (600-289).

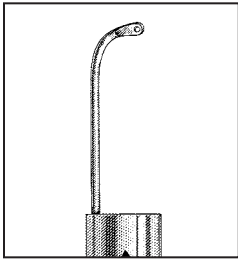
The set can be customized with any 5mm or 3.5mm Needle Holder, Suture/Needle Forceps or Knot Pusher.



600-270

⁴ Developed in cooperation with Sidney D. Appel, M.D., DeKalb Medical Center, Atlanta, Georgia.
⁵ Developed in cooperation with Thomas L. Lyons, M.D., F.A.C.O.G., Atlanta, Georgia.
⁶ Developed in cooperation with Professor M.D. Minelli, Hospital Sacro Cuore, Negrar (VR), Italy.

For a complete listing of all Bariatric Surgery Instruments see pages 624-639.



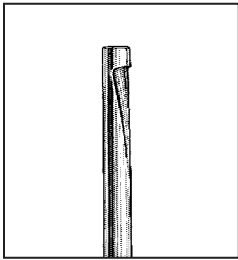
Elkus⁷ Suture Passer

Allows easy placement of a ligature around an intact structure, e.g. large cystic duct. The procedure: suture is preloaded through distal tip and a knot placed; the distal tip is placed behind and around structure; a curved dissector reaches through the instrument and grasps suture and removes suture through the instrument; the Elkus Suture Passer is then removed and extracorporeal knot tying completed with the 10mm Appel Knot Pusher.

U.S. Patent No. 5,462,562



600-283
10mm, 28cm



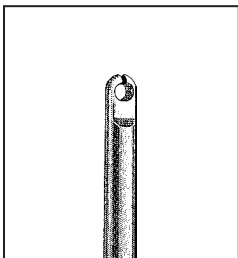
Appel⁴ Knot Pushers

Unique design facilitates the guiding of extracorporeal knots to suture site; knots can be tied and passed without repositioning the knot pusher; the twisting of suture that is experienced with standard knot pushers is minimized.



600-285
10mm, 40cm

600-287
5mm, 40cm



Knot Pusher

Classic design for guiding of extracorporeal knots to suture site.



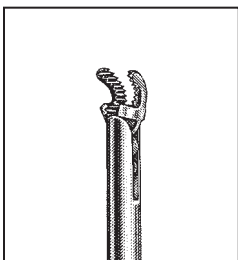
600-289
4mm, 30cm

Endoloop Applicator

Allows placement of endoloop suture intraperitoneally.



600-240
5mm to 3mm, 18cm



Grasping Forceps for Suturing

Curved jaws and spring handle facilitate suturing process by receiving the needle.



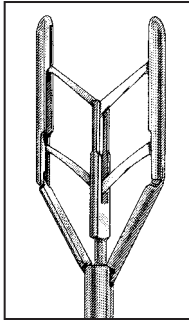
615-125
Spring handle,
5mm, 32cm

615-126
Spring handle,
5mm, 45cm

⁴ Developed in cooperation with Sidney D. Appel, M.D., DeKalb Medical Center, Atlanta, Georgia.

⁷ Developed in cooperation with Robert M. Elkus, M.D., Henry Ford Health System, Detroit, Michigan.

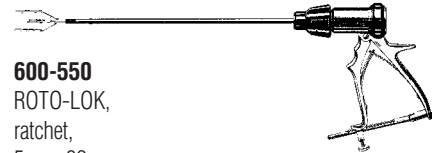
The JARIT P.E.E.R.⁸ is a multipurpose endoscopic retractor, designed to provide superior exposure and retraction during endoscopic surgery. The P.E.E.R. retractor is extremely useful for visualization of the liver bed during and after gallbladder dissection. In surgical procedures requiring optimal exposure of the esophageal hiatus, the esophagogastric junction, or the gastrohepatic omentum, as in vagotomy or fundoplication, the P.E.E.R. retractor permits elevation of the left lobe of the liver and excellent exposure of the lesser curvature of the stomach. In laparoscopic surgery of the intestine, the P.E.E.R. retractor enables exposure and mobilization of the bowel to facilitate repair or resection.



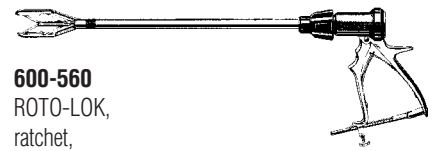
P.E.E.R.⁸ Retractors

Atraumatic, telescoping blades allow for elevation, retraction, and mobilization of organs and tissues, while permitting optimum visualization of surgical field; fully rotatable shaft and locking mechanism combine for versatile instrument placement with stationary positioning; bar ratchet with lock secures jaws in open position; black ring at distal shaft provides identifiable mark to assure jaws have cleared cannula.

U.S. Patent No. 5,235,966.



600-550
ROTO-LOK,
ratchet,
5mm, 32cm

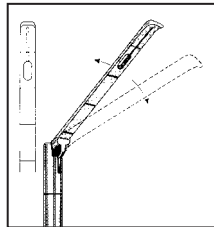


600-560
ROTO-LOK,
ratchet,
10mm, 32cm

JARIT ARTICULATORS offer unique articulating instruments for retraction and dissection of veins, nerves, esophagus, and other structures. With the open/close action of the handle, the distal arm smoothly angles from 0° to 90° improving the speed and ease of articulation.

Articulators

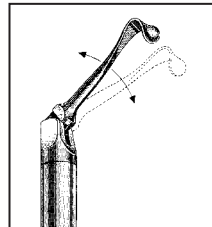
Articulate rapidly from 0° to 90°; bi-directional ROTO-LOK wheel.



Herron¹² Articulator Bar Retractor

45mm straight arm for dissection and retraction; keyhole for holding suture (e.g. anvil placement).

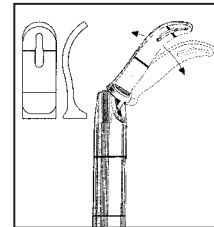
600-580
ROTO-LOK,
locking lever,
5mm, 41cm



Vein/Nerve Retractor

32mm U-shaped distal tip for atraumatic retraction of veins, nerves, etc.

600-582
ROTO-LOK,
locking lever,
10mm, 36cm



Articulator Retractor

30mm S-shaped distal tip for atraumatic retraction of the esophagus; keyhole for maneuvering penrose drain or LAP-BAND[®] System.⁹

600-584
ROTO-LOK,
locking lever,
10mm, 41cm

⁸ The Padron Endoscopic Exposing Retractor (P.E.E.R.) was developed in cooperation with José A. Padrón Amaré, M.D., F.A.C.S., Centro Médico De Caracas, Venezuela.

⁹ A registered trademark of BioEnterics[®] Division, Inamed Corporation, 800-432-8803

¹² Developed in cooperation with Daniel M. Herron, M.D., F.A.C.S., Mount Sinai Hospital, NY, NY

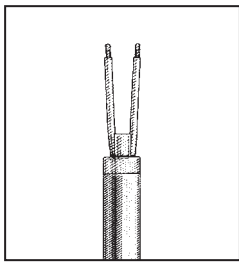
For a complete listing of all Bariatric Surgery Instruments see pages 624-639.

For the surgeon who prefers electrosurgical dissection, JARIT has designed electrosurgical instruments that are easy to use and safe. On the monopolar electrodes, the distal tip is partially insulated to assure that electricity is delivered to the tissue the surgeon has targeted. The JARIT coagulator handle offers a large, comfortable surface for the surgeon's hand. The channel and trumpet valve allow quick and easy aspiration of smoke. For the surgeon who does not require smoke aspiration, cost-effective, fully insulated electrodes are available.

Bipolar instruments are designed with micro tips for effective coagulation of fine, superficial vessels, and with grasping action for coaptive and electrosurgical coagulation of blood vessels.

(Note: The bipolar grasping forceps are not for use with tubal ligation.)

Bipolar Forceps

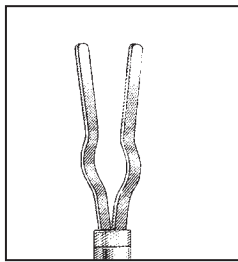


Micro Bipolar Forceps

Fine, pointed distal tip for coagulation of surface blood vessels.

615-330
5mm, 32cm

615-331
5mm, 45cm

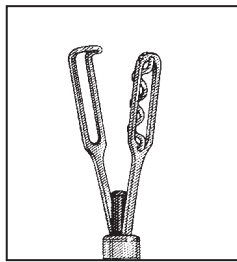


Large Bipolar Forceps

Flat 3mm wide jaws for bipolar coagulation of blood vessels.

615-334
5mm, 32cm

615-335
5mm, 45cm

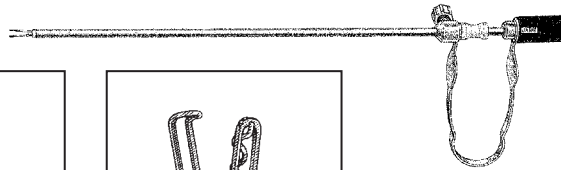


Grasping Bipolar Forceps

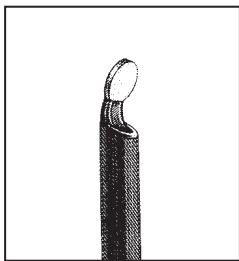
Wave-like jaw for bipolar coagulation of blood vessels.

615-338
5mm, 32cm

615-339
5mm, 45cm



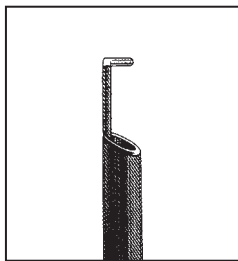
Suction Coagulators



Spatula Tip Suction Coagulator

Smooth, arched, partially insulated spatula tip.

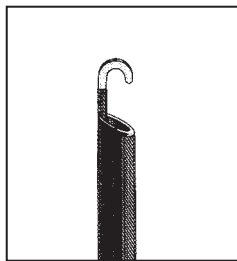
600-300
5mm, 32cm



L-shaped Hook Suction Coagulator

Partially insulated right angle tip.

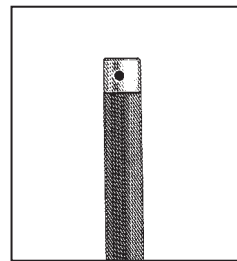
600-305
5mm, 32cm



Hook End Suction Coagulator

Partially insulated hook tip.

600-310
5mm, 32cm



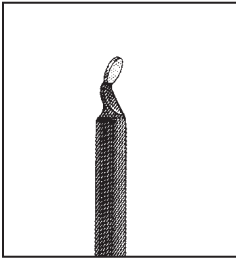
Blunt Suction Coagulator

Blunt, open-ended distal tip.

600-315
5mm, 32cm

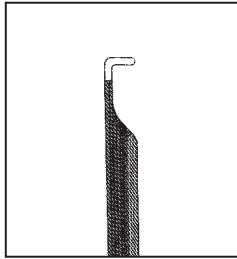


Electrodes



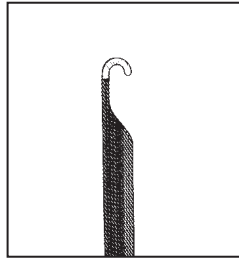
Spatula Electrode
Smooth, arched, partially insulated spatula tip.

600-317
5mm, 32cm



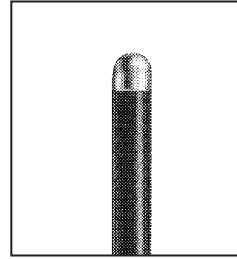
L-shaped Hook Electrode
Partially insulated right angle tip.

600-318
5mm, 32cm



Hook Electrode
Partially insulated hook tip.

600-319
5mm, 32cm



Ball Electrode
Ball tip.

600-316
5mm, 37cm

Electrosurgical Accessories

IMPORTANT: When disconnecting electrosurgical cables from the generator or instrument, always grasp the cables by the connector only. Never pull the cable by the cord. Do not use instruments or cables if the insulation is not fully intact.



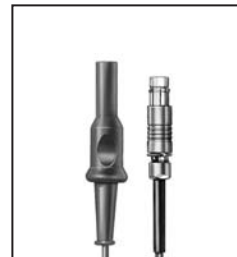
600-290
Monopolar Cable



600-291
Monopolar Adapter, male to female

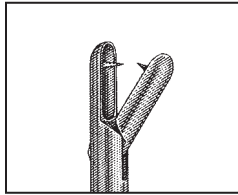


615-295
Bipolar Cable



615-296B
Bipolar Cable, Wolf Generator

A variety of designs and sizes allows for biopsy of multiple tissue types.



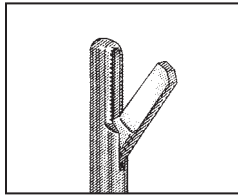
Biopsy Forceps

Two sharp teeth, one on each jaw, for biopsy or secure hold of thick-walled tissue.



615-160
1x1 teeth,
Spring-loaded,
5mm, 32cm

615-162
1x1 teeth,
Spring-loaded,
5mm, 45cm



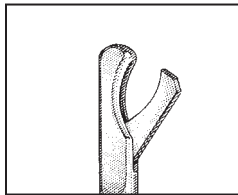
Biopsy Punches

Serrated lower jaw.



615-164
Monopolar,
5mm, 32cm

615-166
Monopolar,
5mm, 45cm



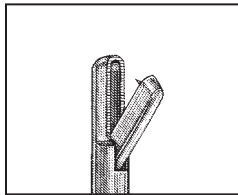
Hook Biopsy Punches

Frangenheim-type electrosurgical biopsy punch with hook blade.



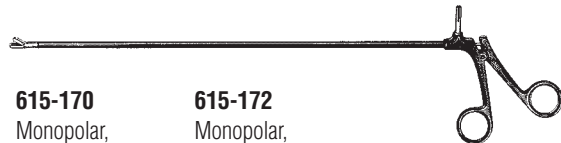
615-168
Monopolar,
5mm, 32cm

615-169
Monopolar,
5mm, 45cm



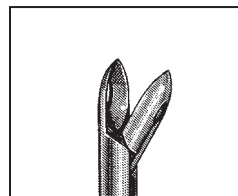
Biopsy Punches

Single tooth in upper jaw.



615-170
Monopolar,
5mm, 32cm

615-172
Monopolar,
5mm, 45cm



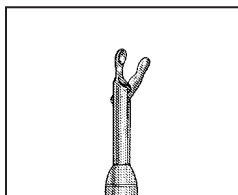
Biopsy Forceps

Oval-shaped fenestrated jaws.



615-174
Monopolar,
5mm, 32cm

615-176
Monopolar,
5mm, 45cm



Micro Biopsy Forceps

3mm jaws for biopsy of small, delicate tissues.



615-178
Spring-loaded,
5mm, 32cm

MEETING THE CHALLENGE OF COST CONTAINMENT WITH QUALITY

THE JARIT DETACH Biopsy System provides the surgeon with reusable endoscopic biopsy forceps having the same superior, long-lasting blades that have become JARIT's hallmark. The two-part JARIT DETACH System easily separates into a handle/shaft component and a biopsy insert. Using backup inserts, which represent only 25% of the cost of the complete JARIT DETACH instrument, substantial cost savings are achieved and a sharp bite is always within reach.

DETACH Biopsy Insert

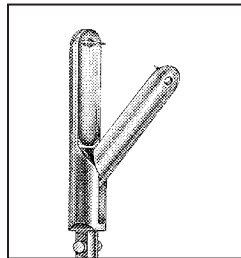


625-0903
Cleaning brushes, pkg/6

DETACH Handle/Shaft



625-090H
ROTO-CAM,
monopolar,
5mm, 32cm



Biopsy DETACH Forceps

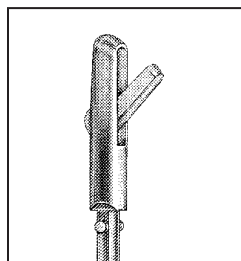
Two sharp teeth,
one on each jaw,
for biopsy or secure
hold of thick-walled
tissue



615-160E
1 x 1 Teeth,
ROTO-CAM,
monopolar,
5mm, 32cm

615-160N
Insert,
1 x 1 teeth,
5mm, 32cm
pkg/1

615-1603
Insert,
1 x 1 teeth,
5mm, 32cm,
pkg/3



Biopsy DETACH Punch

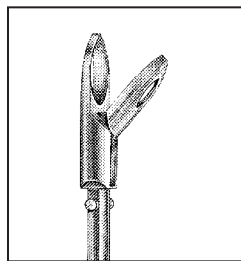
Punch with serrated
lower jaw.



615-164E
ROTO-CAM,
monopolar,
5mm, 32cm

615-164N
Insert,
5mm, 32cm
pkg/1

615-1643
Insert,
5mm, 32cm,
pkg/3



Biopsy DETACH Forceps

Oval-shaped
fenestrated jaws.

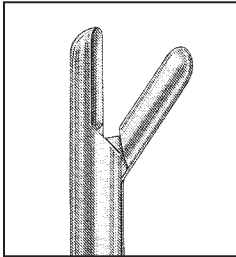


615-174E
ROTO-CAM,
monopolar,
5mm, 32cm

615-174N
Insert,
5mm, 32cm
pkg/1

615-1743
Insert,
5mm, 32cm,
pkg/3

JARIT offers a diversified selection of specialized instrumentation for cholangiography, morcellation, and tissue manipulation.

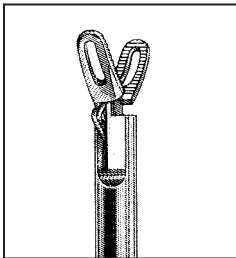


Spoon Forceps

Wide cup-shaped jaws for tissue or stone removal.

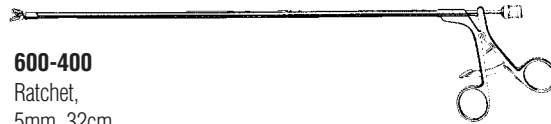


600-138
Spring-loaded,
10mm, 32cm

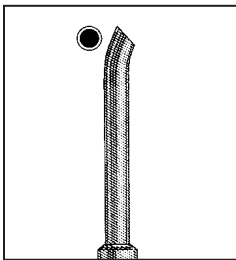


Cholangiogram Clamp

Channel for placement of 5Fr or smaller cholangiogram catheter.



600-400
Ratchet,
5mm, 32cm

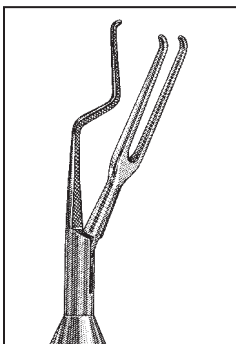


Cholangiogram Guide

Curved tip for simple placement of cholangiogram catheter.

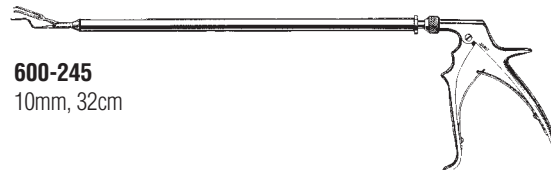


600-410
5mm, 32cm



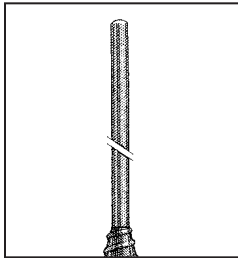
Bessler/Treat¹⁰ Suture Forceps

Uniquely designed jaws allow easier grasp and positioning of tubular structure for placement of purse string with straight or curved needle.



600-245
10mm, 32cm

¹⁰ Developed in cooperation with Mark Bessler, M.D. and Michael R. Treat, M.D., F.A.C.S., Columbia Presbyterian Hospital, New York, New York.

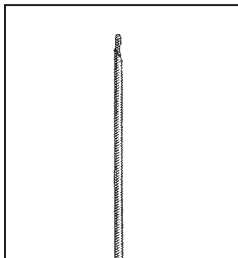


Dilation Set

For atraumatic dilation of 5mm port to 10mm diameter.



600-475
5mm to 10mm

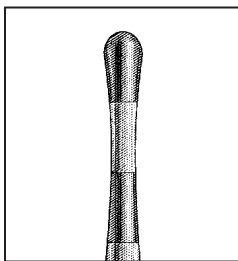


Veress Needles

Internal safety shield allows initial puncture and introduction of CO₂ for pneumoperitoneum, 14 gauge needle.



600-480 **600-481**
120mm 150mm

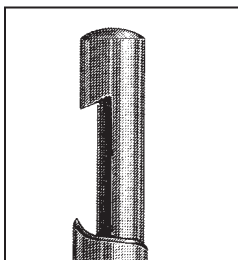


Palpation Probes

For atraumatic manipulation of tissue.



600-495 **600-496**
5mm, 32cm 5mm, 45cm

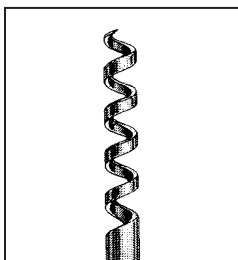


Multiple Tissue Punch

For mechanical morcellation of tissue; tissue stored in shaft.



615-200
10mm, 32cm



Myoma Screws

For manipulation and securing of thick-walled myoma.

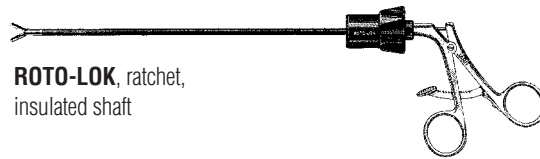


615-210 **615-212**
5mm, 32cm 10mm, 32cm

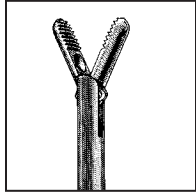
JAYL 3.5MM ENDOSCOPIC INSTRUMENTATION

ROTO-LOK

Bi-directional rotating wheel uniquely designed to maintain secure hold without inadvertent turning.



ROTO-LOK, ratchet, insulated shaft

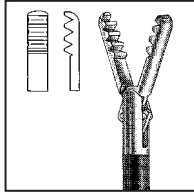


Grasping Forceps

Straight, serrated jaws with proximal recess.

630-100
3.5mm, 24cm

632-100
3.5mm, 32cm

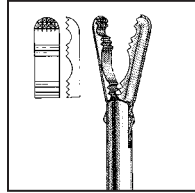


Grabber Forceps

Long, fenestrated jaws with wave-like serrations.

630-104
3.5mm, 24cm

632-104
3.5mm, 32cm

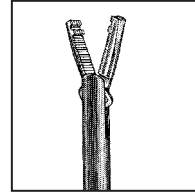


Dual-cup Grasping Forceps

Double cup design for strong hold on tissue.

630-108
3.5mm, 24cm

632-108
3.5mm, 32cm

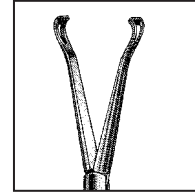


Atrau-Allis Grasping Forceps

Unique jaw design offers strong atraumatic grasp.

630-113
3.5mm, 24cm

632-113
3.5mm, 32cm

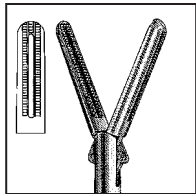


Babcock Forceps

For atraumatic, yet secure grasp of delicate tissue.

630-147
3.5mm, 24cm

632-147
3.5mm, 32cm

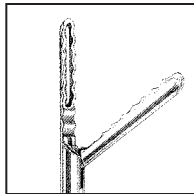


Hunter³ Bowel Grasper

Fenestrated, 14mm jaws for atraumatic grasping.

630-164
Non-ratcheted,
3.5mm, 24cm

632-164
Non-ratcheted,
3.5mm, 32cm

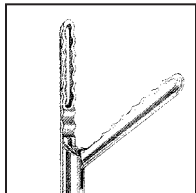


Fundus Grasping Forceps

Beveled-edge jaws.

630-107
3.5mm, 24cm

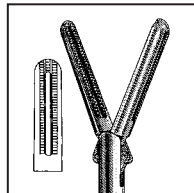
632-107
3.5mm, 32cm



Fundus Grasping Forceps

630-107IL
Ratchet,
3.5mm, 24cm

632-107IL
Ratchet,
3.5mm, 32cm



Hunter³ Bowel Grasper

630-164IL
Non-ratchet,
3.5mm, 24cm

632-164IL
Non-ratchet,
3.5mm, 32cm

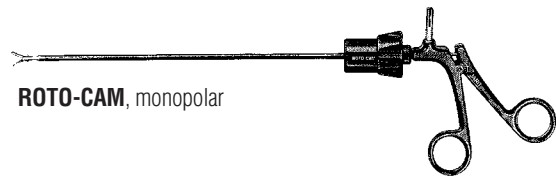


In-Line, insulated shaft

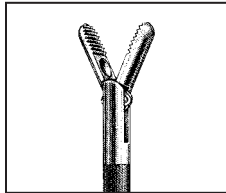
³ Developed in cooperation with John Hunter, M.D., FACS, Professor and Chairman, Department of Surgery, Oregon Health & Science University, Portland, Oregon.

ROTO-CAM

ROTO-CAM mechanism for one-handed, bi-directional, 16-stop, ergonomic rotation.



ROTO-CAM, monopolar



Grasping Forceps

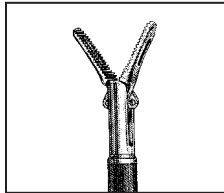
Straight, serrated jaws with proximal recess, double action.

630-105

Monopolar, 3.5mm, 24cm

632-105

Monopolar, 3.5mm, 32cm



Micro Dissecting Forceps

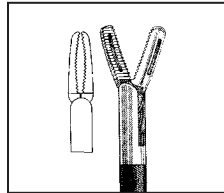
Delicate, fenestrated jaws for gentle blunt dissection, double action.

630-110

Monopolar, 3.5mm, 24cm

632-110

Monopolar, 3.5mm, 32cm



Strong Forceps

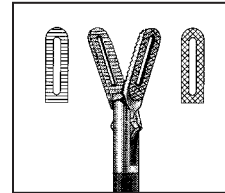
Fenestrated, serrated, oval-shaped jaws converge at distal end to prevent slippage, double action.

630-111

Monopolar, 3.5mm, 24cm

632-111

Monopolar, 3.5mm, 32cm

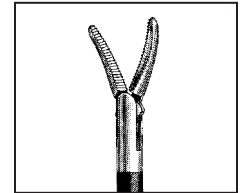


Pyloromyotomy Dissector

Wide-spreading jaws with straight serrations on inner and cross-serrations on outer jaw surface, including the very distal tip of the jaws to better initiate the spread of the muscle, double action.

630-116

Monopolar, 3.5mm, 14cm



Maryland Dissector

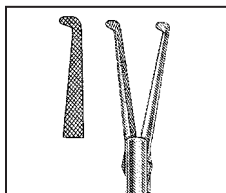
Curved, serrated jaws with wide spread, double action.

630-126

Monopolar, 3.5mm, 24cm

632-126

Monopolar, 3.5mm, 32cm



Mixer Spreader-Dissectors

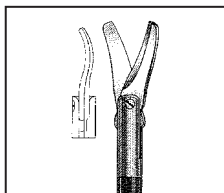
Right-angle jaws for delicate dissection.

630-129RH

Monopolar, ring-handle, 3.5mm, 24cm

632-129RH

Monopolar, ring-handle, 3.5mm, 32cm



JARIT Endo Supercut Scissors

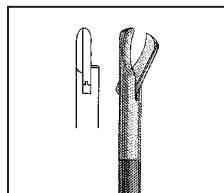
Curved blades offer precise mechanical cutting, double action.

630-202

Monopolar, 3.5mm, 24cm

632-202

Monopolar, 3.5mm, 32cm



HOOK Endo Scissors

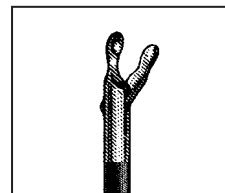
3.0mm size allows scissors to fit in 3.5mm cannula alongside suture.

630-205

Monopolar, 3.0mm, 24cm

632-205

Monopolar, 3.0mm, 32cm

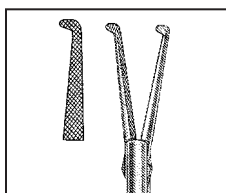


Biopsy Forceps

Cup jaw design for tissue biopsies.

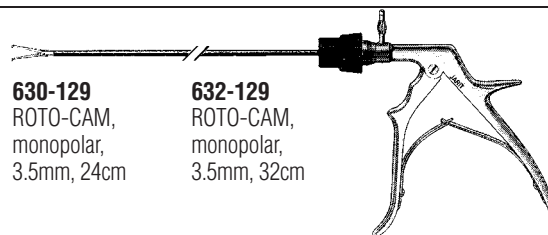
630-178

Monopolar, 3.5mm, 24cm



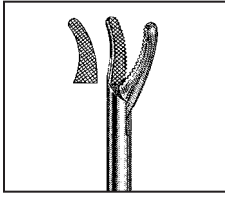
Mixer Spreader-Dissectors

Right-angle jaws for delicate dissection; ergonomic handle minimizes hand fatigue: reverse jaw action.



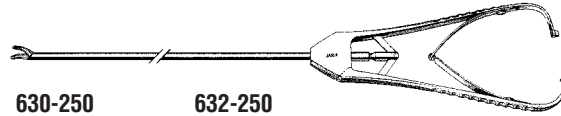
630-129
ROTO-CAM, monopolar, 3.5mm, 24cm

632-129
ROTO-CAM, monopolar, 3.5mm, 32cm



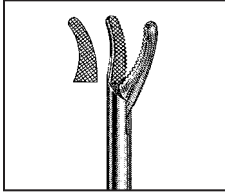
Appel⁴ Needle Holders

JARIT design offers improved control of curved needles with a unique handle that enables surgeons to suture with the same hand motion they use in open surgery. JARIT'S CARB-BITE jaws are designed for a firm, secure grip on the needle; for use with 5-0 suture and smaller.



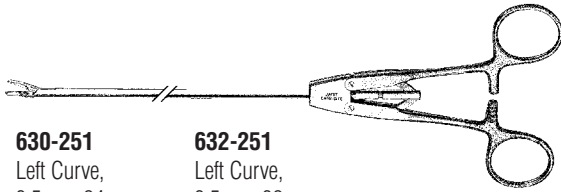
630-250
Left Curve,
3.5mm, 24cm

632-250
Left Curve,
3.5mm, 32cm



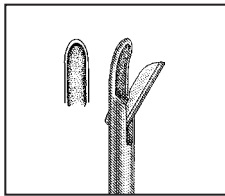
In-line CARB-BITE Needle Holder

In-line ring handle offers a handle design similar to that used in open surgery, with the same superior hold of needles.



630-251
Left Curve,
3.5mm, 24cm

632-251
Left Curve,
3.5mm, 32cm



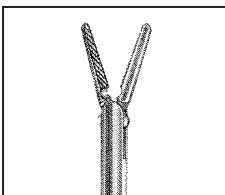
Romeo⁶ Self-Righting Needle Holder

Up-curved, STARDUST jaws self-right curved needles; needles held very securely at any angle within the jaws.



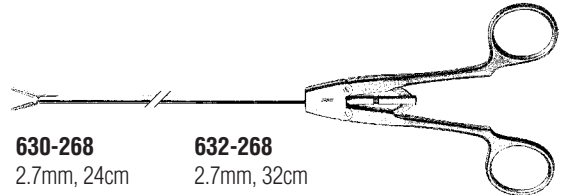
630-266
3.5mm, 24cm

632-266
3.5mm, 32cm



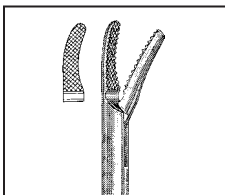
Lyons⁵ Needle Forceps

Tapered, cross-serrated jaws grasp and retract tissue for needle placement; allows needle to be easily repositioned within the jaws for re-grasping with the needle holder at the appropriate angle; in-line handle places hand in same line with that of the needle holder.



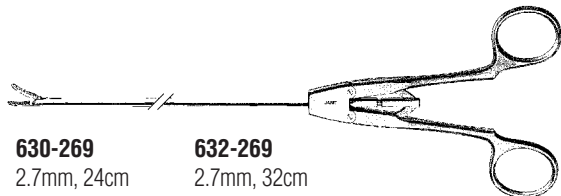
630-268
2.7mm, 24cm

632-268
2.7mm, 32cm



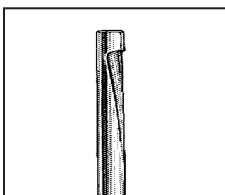
Juliet Receiving Forceps

Right-curved jaws with contained hinges facilitate intracorporeal knot tying; cross-serrated jaws for tissue control during suturing.



630-269
2.7mm, 24cm

632-269
2.7mm, 32cm



Appel⁴ Knot Pusher

Unique design facilitates the guiding of extracorporeal knots to suture site; knots can be tied and passed without repositioning the knot pusher; the twisting of suture that is experienced with standard knot pushers is minimized.

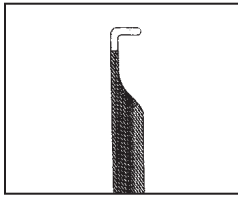


630-287
2.7mm, 34cm

⁴ Developed in cooperation with Sidney D. Appel, M.D., DeKalb Medical Center, Atlanta, Georgia.

⁵ Developed in cooperation with Thomas L. Lyons, M.D., F.A.C.O.G., Atlanta, Georgia.

⁶ Developed in cooperation with Professor M.D. Minelli, Hospital Sacro Cuore, Negrar (VR), Italy.



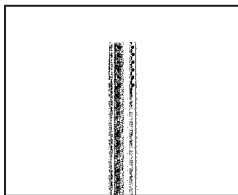
L-shaped Hook Electrodes

Partially insulated, right angle tip.



630-318
3.5mm, 24cm

632-318
3.5mm, 32cm



Suction/Irrigation Cannula

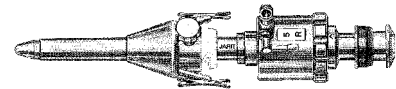
Handpiece and 3.5mm cannula for standard suction/irrigation; suction connection straight off end minimizes clogging of cannula and sticking of valves and allows for stronger vacuum pressure; 5mm and 10mm cannulas available to fit threaded handpiece.



630-330
3.5mm, 24cm

Auto-Valve Hasson Cannula

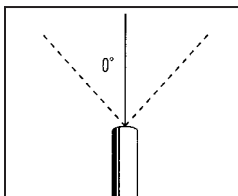
For open technique of cannula placement; flapper-valve allows hands-free insertion and removal of instruments; suture wings on cone for easy adjustment of cannula within peritoneum; blunt obturator.



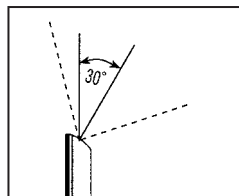
630-452
5mm, 10.5cm

Autoclavable Laparoscopes

Panoramic view with high-quality optics; overall length 24cm and working length of 18cm.



630-700
2.7mm, 0°



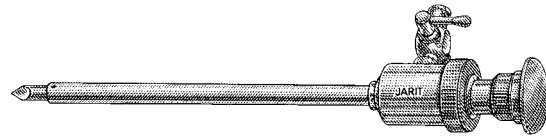
630-730
2.7mm, 30°



As ORs continue to look for ways to control spending, many have looked to reduce the dollars spent on disposable cannula systems. The demand for easy-to-use and simple-to-clean cannulas is met by JARIT's Auto-valve cannulas that allow for hands-free operation. The built-in fascial threads prevent the cannula from slipping, and the light weight construction makes it easier to insert instruments. In addition, a reusable thoracic cannula with fascial threads and blunt obturator is cost-effective and easy to clean.

Auto-Valve Cannulas and Trocars, Non-threaded

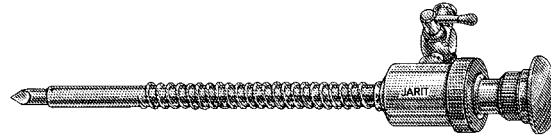
Hands-free flapper valve; color-coded seals with size and color reference stamped on cannula; arrow on cannula indicates location of valve opening; stopcock for insufflation tubing; pyramidal trocar.



- | | | |
|-----------------------------------|-------------------------------|--------------------------------|
| 600-423
10/11mm, 10.5cm | 600-428
5mm, 10.5cm | 600-444
12mm, 10.5cm |
|-----------------------------------|-------------------------------|--------------------------------|

Auto-Valve Cannulas and Trocars, Threaded

Fascial threads minimize in/out movement of cannula; hands-free flapper valve; color-coded seals with size and color reference stamped on cannula; arrow on cannula indicates location of valve opening; stopcock for insufflation tubing; pyramidal trocar.



- | | |
|-----------------------------------|-------------------------------|
| 600-424
10/11mm, 10.5cm | 600-426
5mm, 10.5cm |
|-----------------------------------|-------------------------------|

Trocars

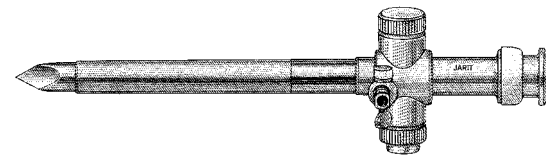
Pyramidal trocar available separately for backup.



- | | | |
|---------------------------------------|---|---|
| 600-425
Auto-Valve,
11mm | 600-431
Piston-Valve,
5mm | 600-446
Piston-Valve,
12mm |
| 600-427
Auto-Valve,
5mm | 600-441
Piston-Valve,
11mm | 600-447
Auto-Valve,
12mm |

Cannulas and Trocars

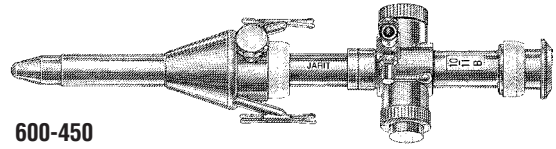
Piston-valve cannula; stopcock for insufflation tubing; pyramidal trocar.



- | | | |
|-----------------------|---------------------------|------------------------|
| 600-430
5mm | 600-440
10/11mm | 600-445
12mm |
|-----------------------|---------------------------|------------------------|

Hasson Cannula

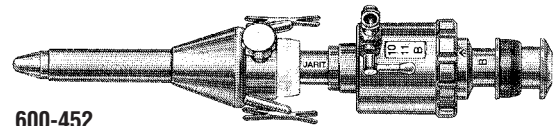
Piston valve cannula for open technique of cannula placement; blunt obturator.



600-450
10/11mm

Auto-Valve Hasson Cannula

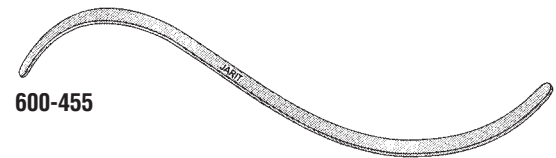
For open technique of cannula placement; Auto-valve allows hands-free insertion and removal of instruments; with suture ties on cone, cannula can be repositioned without retying suture; blunt obturator.



600-452
10/11mm

S-Retractors (set of 2)

For retraction of tissue during open technique placement of Hasson cannula.

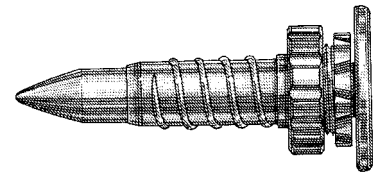


600-455

Thoracic Cannula, Threaded

Fascial threads minimize in/out movement of cannula; blunt obturator.

600-448
12mm



Reducer Sleeves

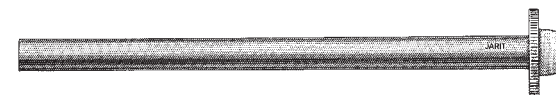
Reduces piston valve cannulas and facilitates extraction of tissue.

600-460
10/11mm to 5mm

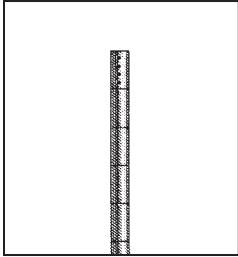
600-468
12mm to 5mm

600-465
5mm to 3mm

600-469
12mm to 10mm



The reusable suction/irrigation cannulas offer quality and affordability.



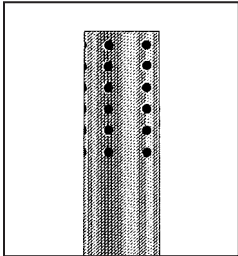
Suction/Irrigation Cannulas

Dual trumpet valves for suction and irrigation; laser guide (fiber insert) and three additional seals included.



600-320
5mm, 34cm

600-322
5mm, 28cm

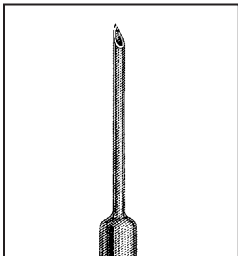


Suction/Irrigation Set

Set includes handpiece, 10mm cannula for aspiration of hematomas, gallstones, and viscous drainage, and 5mm cannula for standard suction/irrigation; suction connection straight off end minimizes clogging of cannula and sticking of valves and allows for stronger vacuum pressures; 3.5mm cannulas available.



600-330
Includes 5mm and 10mm cannulas



Puncture Needles with Irrigation

Large bore needle (19 gauge) with Luer-Lok fitting for irrigation or aspiration.



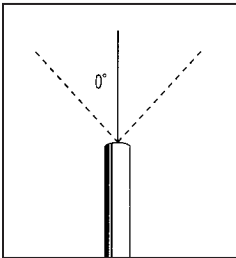
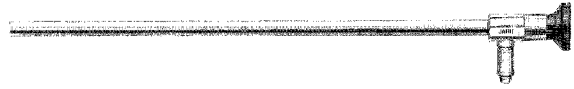
600-490
5mm, 32cm

600-491
5mm, 45cm

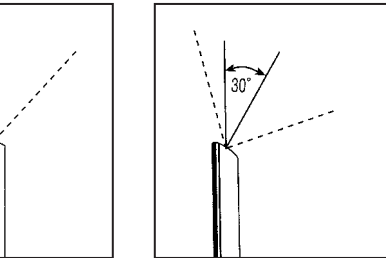
Precision engineering with a rod lens optical system allows these high-quality scopes to deliver exceptional brilliance and clarity. Each scope transmits crisp, clear images with more natural color and enhanced contrast.

Autoclavable Laparoscopes

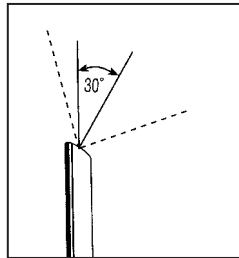
Gravity and prevacuum steam autoclavable; panoramic view with high-quality optics. The autoclavable feature is covered by a special one-year limited warranty.



600-700
10mm, 0°



600-750
5mm, 0°



600-730
10mm, 30°

600-780
5mm, 30°

630-700
2.7mm, 0°

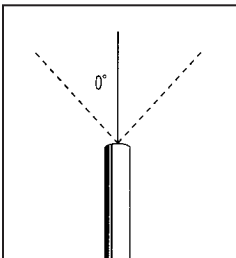
630-730
2.7mm, 30°

Operating Laparoscopes

Offset laparoscope with instrument channel which accommodates 5mm, 45cm instruments or laser; high-quality optics with panoramic view.



615-700



615-700
Autoclavable,
10mm, 0°

SPARE PARTS

For Product #	Part#	Description	Unit
160-120	160-FIL-120	filiform tip	1ea
117-142	silicon mat	silicon mat	1ea
117-144	silicon mat	silicon mat	1ea
160-120	160-HDL-120	T-handle	1ea
160-120	160-CBL-120	cable 35"	1ea
160-120	160-OLV-120-3	3mm olive	1ea
160-120	160-OLV-120-6	6mm olive	1ea
160-120	160-OLV-120-9	9mm olive	1ea
160-120	160-OLV-120-12	12mm olive	1ea
160-120	169-TIP-120	tip for suction tube	pkg/12ea
170-100	170-ITB-100	inner tube	1ea
170-100	170-OTB-100	outer tube	1ea
170-101	170-ITB-101	inner tube	1ea
170-101	170-OTB-101	outer tube	1ea
170-102	170-ITB-102	inner tube	1ea
170-102	170-OTB-102	outer tube	1ea
170-118	170-119	tip for suction tube	pkg/12ea
170-120	170-121	tip for suction tube	pkg/12ea
170-122	170-TIP-122	tip for suction tube	pkg/12ea
170-122	170-SLV-122	sleeve for tube	1ea
170-157	170-MCP-157	metal cap	1ea
170-157	170-SHT-157	sheath	1ea
185-135	185-WSR-135	washer set	1ea
185-150	185-HDL-150	handle only	1ea
185-192	185-BS-192	barrel spring	1ea
205-120	205-SPS-120	spring & screw	1ea
205-121	205-SPS-120	spring & screw	1ea
205-123	205-SPS-123	spring & screw	1ea
205-124	205-SPS-124	spring & screw	1ea
205-140	205-SPS-123	spring & screw	1ea
205-141	205-SPS-123	spring & screw	1ea
205-150	205-SPS-124	spring & screw	1ea
205-151	205-SPS-124	spring & screw	1ea
205-155	205-SPS-120	spring & screw	1ea
205-156	205-SPS-120	spring & screw	1ea
205-160	205-SPS-120	spring & screw	1ea
205-161	205-SPS-120	spring & screw	1ea
205-226	205-SPS-226	spring & screw	1ea
205-235	205-CBL-235	center blade	1ea
205-270	205-ESC-270	end screws	pkg/6ea

For Product #	Part#	Description	Unit
205-270	205-SLB-270	sliding bracket	pkg/3ea
205-270	205-WGN-270	wing nut	pkg/6ea
205-275	205-ESC-270	end screws	pkg/6ea
205-280	205-ESC-270	end screws	pkg/6ea
205-290	205-SLB-290	slide bar	1ea
205-291	205-SLB-291	slide bar	1ea
205-291	205-FRM-291	frame only	1ea
205-291	205-SLB-291	sliding bar	1ea
205-295	205-SLB-295	sliding bar	1ea
205-296	205-SLB-295	sliding bar	1ea
205-306	230-SPS-305	spring & screw	1ea
205-310	205-KNT-310	knurled nut	pkg/6ea
205-310	205-CBL-310	center blade	1ea
205-310	205-ESC-310	end screw	1ea
205-310	205-SBW-310	slide bar & wing nut	1ea
205-310	205-TSC-310	thumb screw	1ea
205-312	205-SB-312	slide bar (clamp)	1ea
205-315	205-ARM-315	removable arm only	1ea
205-315	205-FRM-315	frame only	1ea
205-315	205-SLB-315	slide bar w/ wing nut	1ea
205-316	205-SLB-315	slide bar w/ wing nut	1ea
205-316	205-FRM-316	frame only	1ea
205-325	205-FRM-325	frame w/ fixed blades	1ea
205-325	205-SRW-325	screw	1ea
205-325	205-WGN-325	wing nut	1ea
205-325	205-BLD-325	blades (set of 3)	pkg/3ea
205-325	205-SBL-325	small blade only	1ea
205-325	205-LBL-325	large blade only	1ea
205-530	205-FRM-530	frame only	1ea
220-180	220-SPS-180	springs & screws	pkg/3ea
225-105	225-SPS-105	threaded blade	pkg/3ea
225-200	225-THB-200	threaded blade	1ea
225-205	225-THB-205	threaded blade	1ea
225-210	225-THB-210	threaded blade	1ea
225-225	225-TRK-225	threaded rod w/ knob	1ea
225-500	225-XDB-500	extra deep blades	1pr
225-500	225-XDP-500/S	retr. Blade deep short	1ea
225-500	225-XDP-500/L	retr. Blade deep long	1ea

For Product #	Part#	Description	Unit
230-196	230-SPS-196	spring & screw	1ea
230-205	230-SPS-205	spring & screw	1ea
230-207	230-SPS-205	spring & screw	1ea
230-210	230-SPS-205	spring & screw	1ea
230-211	230-SPS-205	spring & screw	1ea
230-214	230-SPS-205	spring & screw	1ea
230-215	230-SPS-205	spring & screw	1ea
230-218	230-SPS-205	spring & screw	1ea
230-236	230-SPS-236	spring & screw	1ea
230-246	230-SPS-246	spring & screw	1ea
230-300	230-SPS-300	spring & screw	1ea
230-301	230-SPS-300	spring & screw	1ea
230-302	230-SPS-300	spring & screw	1ea
230-305	230-SPS-305	spring & screw	1ea
230-305	230-SPS-305	spring & screw	1ea
230-306	230-SPS-306	spring & screw	1ea
250-390	230-CVB-390	canvas bag	1ea
250-415	250-CLR-415	collar	1ea
275-135	275-KEY-135	key	1ea
275-550	275-JWA-550	jaw assembly	1ea
275-550	275-JWA-550I	jaw assembly installed	1ea
275-555	275-NTB-555	nut & bolt set	1ea
275-600	275-SSC-600	set screw	pkg/2ea
277-305	277-FLT-305	filters	1pr
280-050-064	280-SPS-050	spring & screw	1pr
280-050-064	280-HSC-050	handle screw	1ea
280-060TF	280-SPS-TF	spring & screw	1pr
280-061TF	280-SPS-TF	spring & screw	1pr
280-062TF	280-SPS-TF	spring & screw	1pr
280-063	280-SPS-TF	spring & screw	1pr
280-218	280-SPS-218	spring & screw	1pr
285-471	285-STY-471	stylet	pkg/3ea
285-473	285-STY-473	stylet	pkg/3ea
285-450	285-STY-450	stylet	pkg/3ea
285-463	285-STY-463	stylet	pkg/3ea
285-464	285-STY-464	stylet	pkg/3ea
285-484	285-STY-484	stylet	1ea
290-152	290-THS-152	thumb screws	1ea
290-152	290-SPS-152	screws springs	1ea
290-190	290-SBL-190IL	ind. Small blade left	1ea

For Product #	Part#	Description	Unit
290-190	290-SBL-190IR	ind. Small blade right	1ea
290-190	290-BLD-190	set of 4 blades	1ea
290-190	290-SBL-190	small blades	1pr
290-190	290-LBL-190IL	ind. Large blade left	1ea
290-190	290-LBL-190IR	ind. Large blade right	1ea
290-190	290-LBL-190	large blades	1pr
290-210	290-TSG-210	thumbscrew & gear	1ea
290-212	290-KNS-212	knurled sleeve	1ea
290-220	290-TSG-210	thumbscrew & gear	1ea
300-100	300-HDG-100	handle/gear	1ea
300-105	300-HDS-105	handle screws	1ea
300-150	300-THS-150	screw	1ea
300-150	300-TSG-150	thumbscrew & gear	1ea
300-151	300-TSG-150	thumbscrew & gear	1ea
300-175	300-BLD-175	set of 4 blades	1ea
300-175	300-HDG-175	handle/gear	1ea
300-175	300-LBL-175IR	ind. Large blade right	1ea
300-175	300-LBL-175IL	ind. Large blade left	1ea
300-175	300-SBL-175IL	ind. Small blade left	1ea
300-175	300-SBL-175IR	ind. Small blade right	1ea
300-175	300-LBL-175	large blades	1pr
300-175	300-SBL-175	small blades	1pr
300-175	300-SLB-175	slide bar lock	1ea
300-175	300-KLS-176	knurled lock screw	1pr
300-180	300-SBL-180	small blade set	1pr
300-180	300-SBL-180IL	ind. Small blade left	1ea
300-180	300-LBL-180IR	ind. Small blade right	1ea
300-180	300-LBL-180IL	ind. Large blade left	1ea
300-180	300-LBL-180IR	ind. Large blade right	1ea
300-180	300-LBL-180	large blade set	1pr
300-185	300-BLS-185	blades	1pr
300-211	300-THC-211	thumbscrew assembly	1ea
300-235	300-SGA-235	screw & gear assembly	1ea
300-251	300-BLS-251	set of blades	1 set
300-253	300-BLG-253	set of long blades	1 set
300-253	300-HDG-253	handle/gear	1ea
300-261	300-HDG-261	handle/gear	1ea
300-310	300-SPS-310	spring & screw	1ea
310-105	310-TIP-105	tip	1ea
310-105	310-TIP-105	tips	pkg/12ea

For Product #	Part#	Description	Unit
310-108	310-TIP-108	tips	pkg/12ea
310-110	310-SFT-110	shaft	1ea
310-110	310-TIP-110	tips	pkg/12ea
310-112	310-TIP-112	tips	pkg/12ea
350-112	350-TSC-112	thumb screw	pkg/2ea
360-255	360-SSC-255	set screw	pkg/2ea
380-360	380-LOR-360	large O-ring	pkg/3ea
380-360	380-SOR-360	small O-ring	pkg/3ea
380-362	380-LOR-362	large O-ring	pkg/3ea
380-362	380-SOR-362	small O-ring	pkg/3ea
385-080	385-STY-080	stylet	pkg/3ea
400-136	400-SPS-136	for cottle spec.	1ea
400-185	400-STY-185	stylet	pkg/3ea
400-185	400-TUB-185	tube only	1ea
450-090	450-FRM-090	frame only	1ea
450-090	450-SBA-090	side blade assembly	1ea
450-106	450-SC-106	silicon blade guard	pkg/6ea
450-110	450-INS-110	insert	pkg/12ea
450-111	450-INS-111	insert	pkg/12ea
450-112	450-INS-112	insert	pkg/6ea
450-140	450-SHD-140	shod	pkg/12ea
450-140	450-FRS-140	frame release screw	pkg/6ea
450-141	450-WLP-141	wire loop	1ea
450-505	450-DTN-505	detachable nozzle	1ea
450-505	450-STY-505	stylet	1e
450-505	450-SPS-505	spring & screw	1ea
450-510	450-DTN-505	detachable nozzle	1ea
450-510	450-STY-510	stylet	1ea
450-510	450-HTS-510	handle thumb screw	1ea
450-510	450-ESC-510	end screw	1ea
450-510	450-WRD-510	replacement carrier	1ea
460-627	460-OBT-627	Obdurator	1ea
460-628	460-OBT-628	Obdurator	1ea
460-629	460-OBT-629	Obdurator	1ea
475-125	475-ESC-125	end screw	pkg/3ea
475-127	475-OBT-127	obdurator	1ea
475-130	475-131	plastic obdurator	1ea
475-142	475-OBT-142	anal spec. obdurator	1ea
475-150	475-OBT-150	obdurator	1ea
475-152	475-OBT-152	obdurator	1ea

For Product #	Part#	Description	Unit
475-155	475-OBT-155	obdurator	1ea
475-415	475-STP-415	small tip	1ea
475-415	475-LTP-415	large tip	1ea
475-415	475-CTP-415	cvd tip	1ea
475-440	475-CBL-440	center blade	2ea
475-440	475-WNA-440	wing nut assembly	1ea
500-100	500-KNT-100	knurled nut	pkg/12ea
500-105	500-KNT-100	knurled nut	pkg/12ea
500-110	500-KNT-100	knurled nut	pkg/12ea
500-115	500-KNT-100	knurled nut	pkg/12ea
500-115	500-TSC-115	thumb screw	
500-120	500-KNT-100	knurled nut	pkg/12ea
500-120	500-TSC-115	thumb screw	
500-125	500-KNT-100	knurled nut	pkg/12ea
500-125	500-TSC-115	thumb screw	
500-130	500-TSC-115	thumb screw	
500-135	500-TSC-115	thumb screw	
500-160	500-SBL-160	small blade	1ea
500-160	500-MBL-160	medium blade	1ea
500-160	500-LBL-160	large blade	1ea
500-160	500-WGN-160	wing nut	pkg/3ea
500-160	500-BLD-160	set of 3 blades	1ea
500-200	500-CVB-200	canvas bag	1ea
500-215	500-CVB-215	canvas bag	1ea
615-113	615-113IJ	inner jaw	1ea
615-116	615-116IJ	inner jaw	1ea
615-143	615-143IJ	inner jaw	1ea
615-144	615-144IJ	inner jaw	1ea
Color Coding	Color Coding	for kerrison rongeur	1ea
Cut-away	cut-away	lap cut-away	1ea

**SUGGESTED
INSTRUMENT
SETS**



SUGGESTED INSTRUMENT SETS

The following suggested sets are available in both hard copy and at JARIT's website to help the hospital staff determine its instrument requirements. To access any of these set lists, please contact your JARIT Dealer Representative, JARIT Regional Manager, JARIT Customer Service Department, or visit the JARIT website: www.jarit.com.

CARDIOVASCULAR AND THORACIC SURGERY

- AV Fistula Set
- Basic Open Heart Set
- Carotid Endarterectomy Set
- Coronary Artery Bypass (Pump Pan) Set
- Major (Abdominal) Vascular Set
- Minor (Peripheral) Vascular Set
- MRI- Compatible Set
- Pediatric Vascular Set
- Thoracoscopy Set
- Thoracotomy Set
- VATS (Video-Assisted Thoracic Surgery)
- Valve Set

EAR, NOSE, AND THROAT SURGERY

- Antrostomy Set
- Caldwell Luc Set
- Middle Ear (Stapedectomy/Tympanoplasty) Set
- Myringotomy Set
- Nasal Fracture Reduction Set
- Sinus Endoscopy Set
- Tonsillectomy and Adenoidectomy Set
- Tracheotomy Set

GENERAL SURGERY

- Cutdown Set
- Gallbladder Extras Set
- Intestinal Set
- Laparoscopic 3.5mm Long Set
- Laparoscopic 3.5mm Short Set
- Laparoscopic Appendectomy Set
- Laparoscopic Bariatric Set
- Laparoscopic Bowel Set
- Laparoscopic Cholecystectomy Set
- Laparoscopic Fundoplication Set
- Laparoscopic Hernia Repair Set
- Laparoscopic Nephrectomy Set
- Laparoscopic Pelvic Lymph Node Dissection Set
- Laparoscopic Splenectomy Set
- Laparoscopic Vagotomy Set
- Major Set
- Mastectomy Set
- Minor Set
- Open Bariatric Set
- Pediatric Laparotomy Set
- Rectal Set
- Thyroidectomy Set
- X-Long Instrument Set

GENITO-URINARY SURGERY

- Circumcision (Adult) Set
- Epispadias Repair Set
- Kidney Set
- Perineal Prostatectomy Set
- Radical Prostatectomy (Suprapubic/Retropubic) Set
- Urology Extras Set
- Vasectomy Set



GYNECOLOGICAL/OBSTETRICAL SURGERY

Abdominal Hysterectomy Set
A & P Repair Set
Cesarean Section Set
Colpotomy Set
D & C (Dilatation & Curettage) Set
GYN X-Long Set
LAVH (Laparoscopic-Assisted Vaginal Hysterectomy) Set
Pelviscopy Set
Vaginal Hysterectomy Set

NEUROSURGERY

Burr Hole Set
Cervical Laminectomy Set
Craniotomy Set
Lumbar Laminectomy Set
Micro Neuro Set
MRI-Compatible Instruments Set
Rhoton (Stainless Steel) Dissector Set
Rhoton (Titanium) Dissector Set

OPHTHALMIC SURGERY

Basic Eye Set
Cataract Set
Chalazion Set
Cornea Transplant Set
DCR (Dacryocystorhinostomy), Lacrimal Intubation Set
Enucleation Set
Muscle Set
Retinal Set

ORTHOPEDIC SURGERY

Amputation Set
Hand Set
Large Bone Holding Set
Major Ortho Set
Minor Ortho Set
Podiatry Set
Small Bone Holding Set

PLASTIC SURGERY

Blepharoplasty Set
Plastic Set
Rhytidectomy Set
SMR-Rhinoplasty Set

NEEDLE

HOLDER

SUTURE

GUIDE

CONVERSION

TABLES



NEEDLE HOLDER SUTURE GUIDE

SutureSize	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Product										
121-097					•					
121-100				•	•	•				
121-105		•	•	•						
121-106		•	•	•						
121-115						•	•	•		
121-116						•	•	•		
121-118						•				
121-120					•					
121-121					•					
121-125	•	•	•	•						
121-126				•	•	•				
121-127				•	•	•				
121-129				•	•	•				
121-130				•	•	•				
121-131				•	•	•				
121-132				•	•	•				
121-133				•	•	•				
121-134				•	•	•				
121-135	•	•	•	•						
121-140	•	•	•	•						
121-145	•	•	•	•						
121-146	•	•	•	•						
121-147	•	•	•	•						
121-148						•	•	•		
121-149						•	•	•		
121-150				•	•	•				
121-155				•	•	•				
121-160				•	•	•				
121-161				•	•	•				
121-162				•	•	•				
121-163				•	•	•				
121-164				•	•	•				
121-165				•	•	•				
121-166				•	•	•				
121-170						•	•	•		
121-171						•	•	•		
121-172						•	•	•		
121-173						•	•	•		
121-174						•	•	•		
121-175						•	•	•		
121-177						•	•	•		
121-178						•	•	•		
121-180	•	•	•	•						
121-181						•	•	•		
121-182						•	•	•		
121-183						•	•	•		
121-184					•	•	•			
121-185					•	•	•			
121-186					•	•	•			
121-187					•	•	•			
121-188					•	•	•			
121-189					•	•	•			



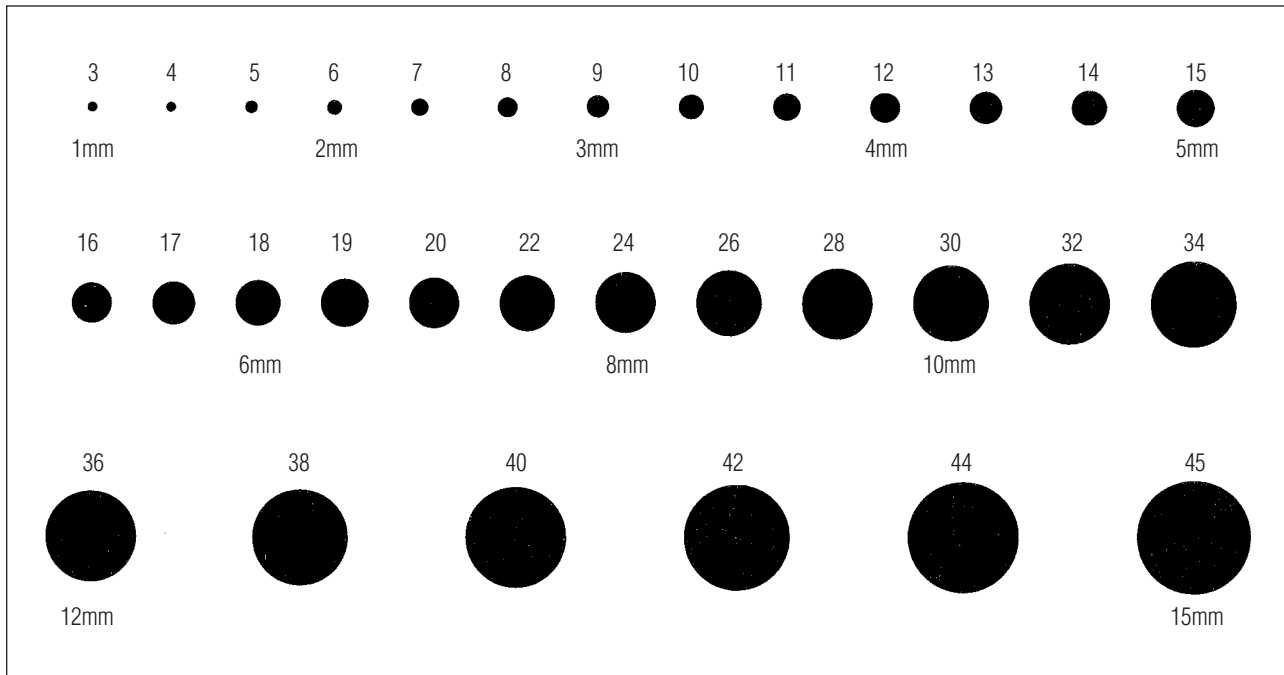
NEEDLE HOLDER SUTURE GUIDE

SutureSize	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Product										
121-192		•	•	•						
121-193					•	•	•			
121-195		•	•	•						
121-197					•	•	•			
121-198					•	•	•			
121-200				•	•	•				
121-205				•	•	•				
121-206				•	•	•				
121-207				•	•	•				
121-209		•	•	•						
121-210		•	•	•						
121-211					•	•	•			
121-212					•	•	•			
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121-214					•	•	•			
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121-218					•	•	•			
121-219					•	•	•			
121-220	•	•	•	•						
121-228						•	•	•		
121-229						•	•	•		
121-230						•	•	•		
121-231						•	•	•		
278-092						•	•			
278-093						•	•			
278-094						•	•			
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278-105						•	•			
278-110								•	•	•
278-111								•	•	•
278-112								•	•	•
278-113								•	•	•
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278-115								•	•	•
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278-117								•	•	•
278-118								•	•	•
278-119								•	•	•
278-120								•	•	•
278-121								•	•	•
355-412					•	•	•	•	•	•
355-413					•	•	•			

Standard French Gauge

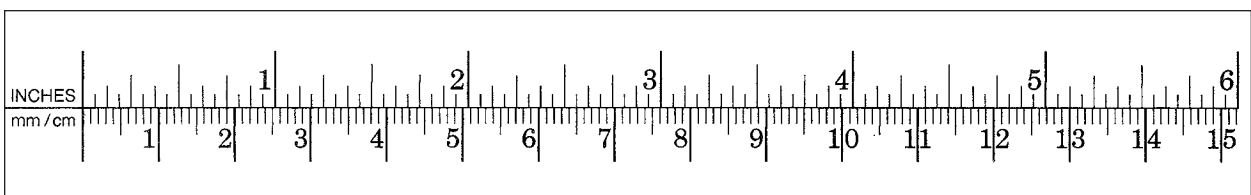
The standard French is used to measure diameters of all bougies, catheters, sounds, suction tubes and uterine dilators.

French Scale			
3 French = 1.0mm	10 French = 3.3mm	17 French = 5.7mm	28 French = 9.3mm
4 French = 1.3mm	11 French = 3.7mm	18 French = 6.0mm	30 French = 10.0mm
5 French = 1.7mm	12 French = 4.0mm	19 French = 6.3mm	32 French = 10.6mm
6 French = 2.0mm	13 French = 4.3mm	20 French = 6.7mm	34 French = 11.3mm
7 French = 2.3mm	14 French = 4.7mm	22 French = 7.3mm	
8 French = 2.7mm	15 French = 5.0mm	24 French = 8.0mm	
9 French = 3.0mm	16 French = 5.3mm	26 French = 8.7mm	



Gauge Chart		
Gauge	O.D. (Inch)	I.D. (Inch)
33	.008	.004
32	.009	.004
31	.010	.005
30	.012	.006
29	.013	.007
28	.014	.007
27	.016	.008
26	.018	.010
25	.020	.010
24	.022	.012
23	.025	.013
22	.028	.016
21	.032	.020
20	.035	.023
19	.042	.027
18	.050	.033
17	.059	.041
16	.065	.047
15	.072	.054
14	.083	.083
13	.095	.071
12	.109	.085
11	.120	.094
10	.134	.106
9	.148	.118
8	.165	.135
7	.180	.150
6	.203	.173

Length Conversions		
Multiply	By	To Obtain
Millimeters (mm)	0.1	Centimeters (cm)
Millimeters (mm)	0.03937	Inches (→)
Centimeters (cm)	0.3937	Inches (→)
Centimeters (cm)	10	Millimeters (mm)
Inches (→)	25.4	Millimeters (mm)
Inches (→)	2.540	Centimeters (cm)



NUMERICAL

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