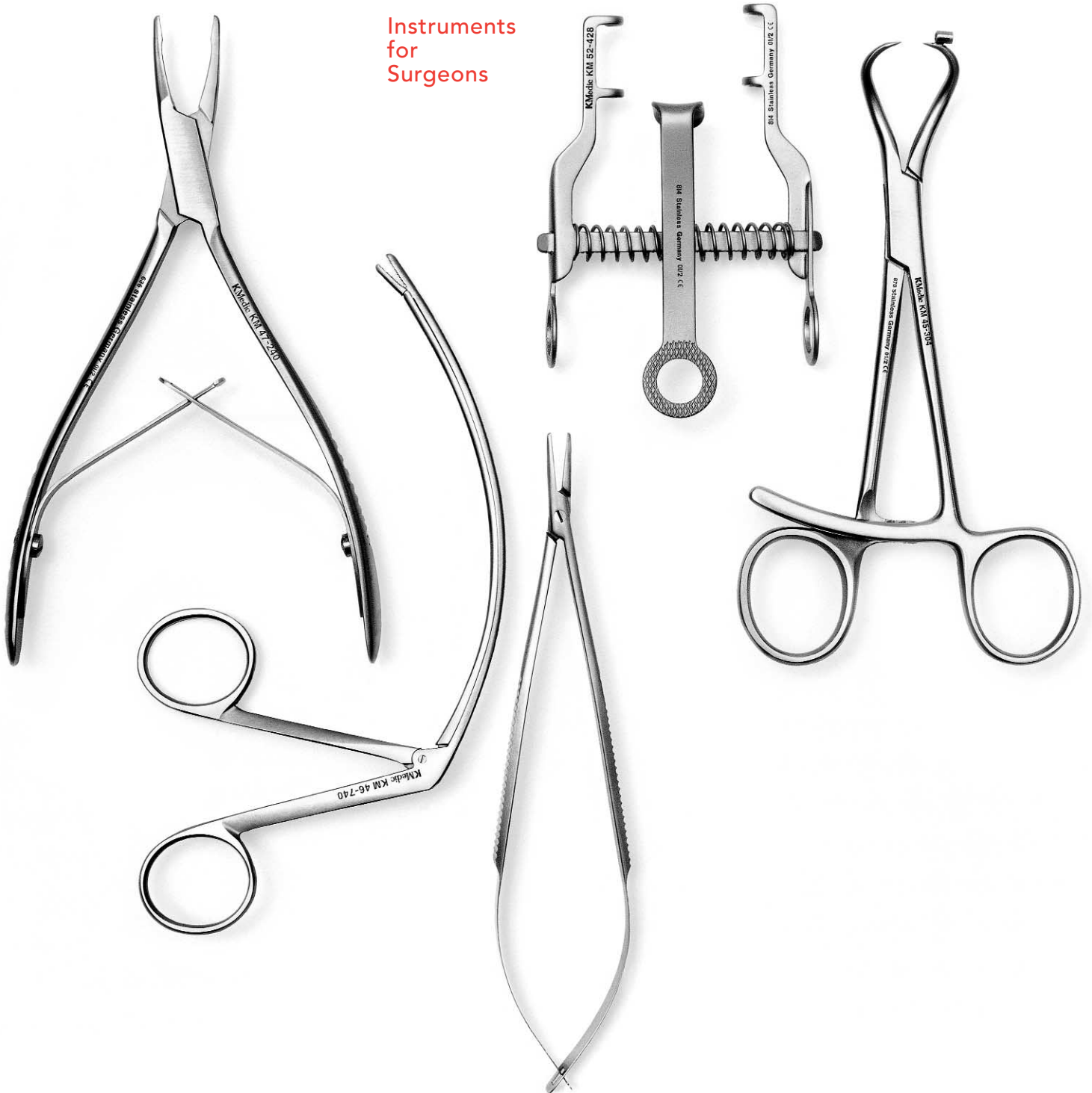


# The Hand Sourcebook

Instruments  
for  
Surgeons



**K**Medic®

## **KMedic**

Founded in 1986, KMedic is today the leading provider of orthopedic surgical instruments in the United States. KMedic has achieved this position by focusing its energies and wherewithal on orthopedic surgical instruments. This consistent focus and commitment enables KMedic to provide the orthopedic community with an ever-increasing selection of fine instruments that conform to the highest standards of precision and reliability, consistency of pattern and lasting value.

## **KMedic's Mission**

KMedic aspires to be — and to be recognized by the medical profession as — the best orthopedic surgical instrument company. We will achieve this position by passionately pursuing excellence and by dedicating ourselves to improving the quality of life of everyone who interacts with us, particularly those individuals who rely on our products to heal and to cure.

## **KMedic and the Orthopedic Community**

While our focus is on supplying the finest surgical instruments, we also see ourselves as part of the larger orthopedic community. Toward that end, we collaborate with surgeons to develop innovative instrumentation and applications. In addition, to promote further knowledge in our field, we support the Orthopaedic Research and Education Foundation (OREF). As a proud member of OREF's Corporate Associate Program — at the Contributing Rank — we actively support its research and educational programs. Through our involvement with OREF, as well as other professional organizations such as NASS, AORN, NAON, and NAOT, we're helping to advance the interests of the Orthopedic Community.



**naon**



## **KMedic Certified Instruments**

KMedic is a company with a passion for excellence. As such, we are committed to “raising the bar” in every aspect of our business, from customer service to product development. With regard to instruments, this commitment takes the form of superior products that perform impeccably. In order to provide surgeons with the tools they need to operate with the utmost skill and confidence, we have introduced an instrument certifying process that is second to none in the industry. See inside back cover.

Every step in the creation and distribution of KMedic-branded instruments — from material testing and crafting, to delivery and customer service — follows our exacting standards. To achieve this level of excellence, we have a Quality Assurance Program that begins at the President’s office and continues through every KMedic department, down to our loading dock. This program demands:

- That quality is built into every product through excellent design and good manufacturing practices
- Scrupulous adherence to our award-winning Quality Assurance Policy
- The presence of German-trained quality assurance personnel — including instrument makers, engineers and inspectors — to supervise prevention and verification activities

After more than a decade, the proven success of our Quality Assurance Program enables us to “guarantee for life” KMedic Certified Instruments.

### **The KMedic Guarantee**

KMedic instruments are guaranteed for life against manufacturing defects of material and workmanship. This guarantee is void if instruments are not maintained or repaired properly, or if they are not used for their intended surgical purpose. Tungsten carbide inserts on scissors, needle holders and wire cutters are guaranteed for three years. Replacement parts, such as springs, are guaranteed for one year.

## About this Edition

The KMedic Hand Sourcebook™ offers surgeons more than 1,200 patterns of instruments for hand surgical procedures. In the following pages, you'll find an unmatched selection of the finest quality instruments. To facilitate your search for the right instrument, you'll find in the back of this Sourcebook, both an alphabetical and numerical index. We recommend you use it to quickly locate the instruments you're seeking.

Every instrument in this Sourcebook conforms to the uncompromising standards that characterize KMedic Certified Instruments.

Please keep in mind that the illustrations in this Sourcebook indicate general design only. As instrument making is characterized by continual refinement — subject to innovation and improvement — we reserve the right to ship the most modern pattern of a given instrument.

In addition, measurements given for overall length may vary slightly because of metric conversion. Detailed drawings marked  $\frac{1}{1}$  are approximately the actual size. Those marked  $\frac{1}{2}$  are approximately one half the actual size.

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## **Ordering Information**

KMedic Certified instruments and products may be ordered through an authorized representative. For the KMedic Representative serving your area, please call (800) 955-0559.

KMedic is now available in 70 countries around the globe. For the representative serving your country, please call (201) 767-4002 or contact us on-line: [www.kmedic.com](http://www.kmedic.com).

When ordering, and to avoid substitutions, please specify the KMedic product number, as well as the product description.

## **Customer Service and Relations**

If you have a question or problem regarding KMedic products or services, please don't hesitate to either notify your representative or to call KMedic at (800) 955-0559. Should you need to return an instrument, feel free to contact either your KMedic Representative or KMedic.

To receive more information on new products, or to send us an e-mail, visit our web site @ [www.kmedic.com](http://www.kmedic.com).

In addition to the KMedic Hand Sourcebook™, we also publish the KMedic Orthopedic Sourcebook™, the KMedic Spinal Sourcebook™, the KMedic Foot and Ankle Sourcebook™ and the KMedic General Instrument Sourcebook™. To obtain copies of these publications, please contact KMedic directly.

## **Instrument Maintenance and Repair Program**

The KMedic/Pilling Instrument Maintenance and Repair Program is designed to keep your instruments in optimum working condition. By providing routine maintenance, this program helps extend the life of your instruments and thereby saves on replacement and related costs.

Under this program, we will refurbish or repair KMedic and other high-quality instruments. Our services also include: precise sharpening, adjustments, refinishing and lubrication.

We will complete most repairs within 3 to 5 working days. If immediate attention is required, please call us in advance, and ask for our Rush Service.

As part of this program, any KMedic instrument defect covered by our guarantee will be replaced or repaired free of charge. All our repair work is tested and guaranteed to perform its intended tasks. If you are not completely satisfied, we will rework the item at no charge.

For more information about our Repair Program or to receive a price list, call (800) 955-0559.

## **Instrument Longevity Through Proper Care**

Your purchase of KMedic instruments represents a considerable investment. By following these guidelines you will protect your investment and ensure many years of productive and satisfactory performance.

### **Maintaining the Surface**

KMedic Certified stainless steel surgical instruments are made of corrosion resistant, high-grade specialty steels that are especially selected to meet the varying requirements of cutting, clamping, retracting and chiseling.

A special characteristic of these steels is that they form passive layers on the instrument's surface, which protect against corrosion. These layers act as an invisible patina and with repeated use and exposure to air, the instruments become increasingly corrosion resistant.

While every effort is made during the manufacturing process to ensure that instruments are corrosion resistant, the real key to longevity is proper maintenance. Toward that end, you must do your part by caring for your instruments. In a sense, the name "stainless steel" is a misnomer, one which should not be taken literally. When not properly treated, steel can rust or stain, reducing the life of the instrument or rendering it useless. The following sections outline proper instrument care.

## **New Instruments**

Newly purchased instruments must be cleaned, lubricated and autoclaved immediately before use.

### **Correct Use**

Obvious as it sounds, it bears repeating: Instruments are designed for a particular purpose and should be used only for that purpose. Even the strongest instrument can be damaged when used inappropriately, i.e., when a rongeur is used to cut wire.

### **Water and Stainless Steel**

Ordinary tap water contains minerals that can cause discoloration and staining. Therefore, we recommend the use of distilled water for cleaning, disinfecting, sterilizing and rinsing instruments. To avoid staining, use a cleaning solution with a pH near neutral (7).

### **Manual Cleaning and Soaking**

When handling instruments, be very careful not to damage their fine tips and mechanisms. If instruments have been exposed to blood, tissue, saline or other foreign matter, you must rinse them in warm (not hot) water before these substances are allowed to dry. After rinsing, immerse them in a cleaning and disinfecting solution.

Because many compounds, including certain chemicals, are highly corrosive to stainless steel, rinse and dry instruments immediately, in case they have come in contact with any potentially harmful substances.

If no ultrasonic cleaner is available, clean the instrument very carefully. Pay particular attention when cleaning boxlocks, serrations, hinges and other hard-to-reach areas. Use nylon (not steel) brushes, such as KM 39-684, and warm (not hot) cleaning solutions. Follow the manufacturer's instructions for the preparation of the cleaning solutions. Remember to change these solutions daily.

### **Ultrasonic Cleaning**

Ultrasonic is the most effective and efficient way to clean your instruments. To maximize its effectiveness, your instruments should be cleaned of all visible debris before they are put into an ultrasonic cleaner. Please note that chrome-plated instruments may rust if they are not dried and lubricated immediately after sterilization. In addition, we recommend the following:

- Do not mix dissimilar metals, i.e., chrome and stainless, in the same cycle.
- Open all instruments so ratchets and boxlocks are accessible.
- Avoid piling instruments on top of each other when loading.
- Remove and rinse off instruments immediately after the cycle is finished.
- Dry instruments immediately after rinsing and allow them to air-dry thoroughly.
- Lubricate all moving parts.

## Instrument Checkup

The best time to review the condition of your instruments is after they have been cleaned and lubricated and have cooled off. Consider the following:

### Function:

Scissors must cut cleanly and close properly. Needle holders and clamps must engage properly and meet correctly at the tips.

### Surface:

Carefully inspect surfaces for any sign of staining, cracking or other irregularities. Common sources of staining are:

- Inadequate cleaning
- Mixing dissimilar metals
- Impurities in the water
- Unsuitable or improper preparation and usage of cleaning and disinfecting or maintenance agents
- Non-compliance with operating procedures of cleaning and sterilizing equipment

## Aluminum Trays

To avoid development of "Aluminum Salt" on your Al-trays, use only distilled water in your autoclave. Already developed "Aluminum Salt" is very difficult to remove which might cause damage of the anodized Al-surface. Any instrument or tray should be cleaned of debris with a non-acid detergent (neutral pH) prior to autoclaving.

## Lubrication and Autoclaving

All instruments must be properly cleaned before autoclaving. Then their moving parts, such as boxlocks and hinges, should be well lubricated.

Be careful to use surgical lubricants and not industrial oils. Always sterilize instruments in the open, unlocked position. We recommend that instruments be wrapped in cloth and then placed in the container, or that a cloth be put on the bottom of the pan to absorb moisture. The cloth should be pH(7) neutral and have no residue of detergents. Finally, avoid sudden cooling of your instruments.

## Cold Sterilizing or Disinfecting

Prolonged immersion in disinfecting or sterilizing solution can damage your surgical instruments. We recommend that you do not soak your instruments for longer than 20 minutes. To render the instruments sterile and ready for use, use an autoclave cycle.

### Caution:

- Instruments with tungsten carbide inserts, such as wire cutters, needle holders and TC scissors, should never be immersed in sterilizing solutions containing Benzyl Ammonium Chloride (BAC). BAC will soften and dissolve the tungsten carbide.
- Never use bleach as it will cause severe pitting.

## Storage

Once your instruments are thoroughly dry, store them in a clean, dry environment. Never put them in areas where chemicals may emit corrosive vapors or where temperature and moisture variations could cause condensation on the instruments.

## KMedic Instrument Care Checklist

1. Rinse and soak soiled instruments immediately after use. Thoroughly clean before autoclaving.
2. Autoclave and sterilize instruments in an open position.
3. Do not stack or entangle instruments.
4. Follow recommendations made by equipment and solutions manufacturers.
5. Keep instruments properly lubricated.
6. Inspect instruments regularly.
7. If you experience a problem, at any stage of the instrument caring process, please consult with your KMedic Representative.



## **KMedic: In the Tradition of the Masters**

Instrument making is a highly developed craft, and the craftspeople who make KMedic surgical instruments are the modern heirs to this ancient art. It is also a vocation that has respected its traditions over the centuries. So, while new techniques have kept pace with advances in surgical practices, the essence of the craft has changed very little. Today, computers and other advanced technology aid in the manufacture of instruments, but it remains the skills of gifted instrument makers that turn raw steel into the finely honed tools...ready for the surgeon's hand.

### **An Extension of the Hand**

At KMedic we see instruments as an extension of a surgeon's hand. It is with this relationship in mind that we select the instruments offered in this Sourcebook. We demand from our instrument makers: precision and reliability, consistency of pattern and uniform surface, all at a good value. To ensure this level of quality, every one of our suppliers must meet our Quality Assurance Program. Only when they have met these strict standards do we qualify an instrument as KMedic Certified.

The idea that the instrument is an extension of the hand is more than a romantic notion at KMedic. It is directly related to superior performance. When you work with a KMedic instrument, you'll find it satisfies on many levels. First, like any well-crafted tool, it feels very good in your hand. What's more, it functions extremely well. Taken together these two feelings translate into greater confidence and ease.

### **Evolving Tradition**

As we're all aware, new surgical techniques create a continual need for improvements, as well as for the introduction of entirely new instruments. KMedic responds to these needs by forming partnerships with leading surgeons.

In the belief that closer communication will lead to further advancements, we invite you to call, or to e-mail us, and share your ideas for new and/or improved instrumentation. We look forward to hearing from you.




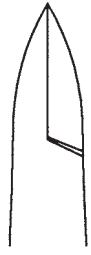


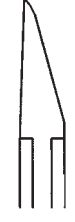
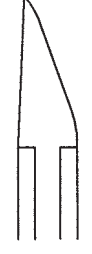
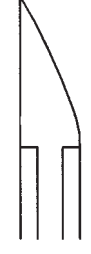
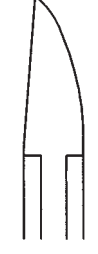


Thomas S. Bielan  
President  
KMedic

**KMedic**<sup>®</sup>





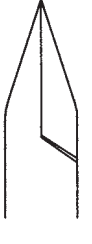


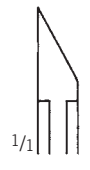
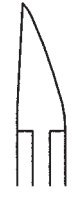
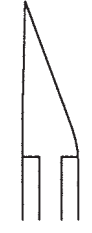

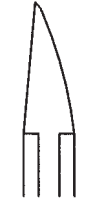
**NAIL SPLITTER**

				
1/1				
				
1/1				
KM 69-320 4" (102mm) stainless	KM 69-322 4½" (114mm) stainless	KM 69-326 5" (127mm) heavy jaw stainless	KM 69-327 5" (127mm) narrow jaw stainless	KM 69-340 6" (152mm) stainless

*Replacement springs are available. To order, refer to the corresponding product number.*



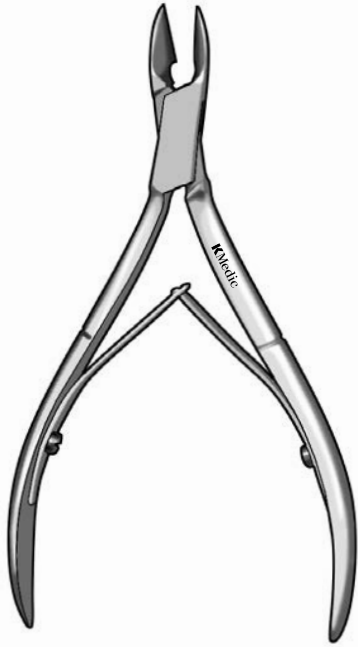
**NAIL SPLITTER**

				
1/1				
				
1/1				
KM 69-341 4" (102mm) tapered stainless	KM 69-342 4½" (114mm) tapered stainless	KM 69-343 5" (127mm) tapered stainless	KM 69-344 6" (152mm) tapered stainless*	KM 69-448 4½" (114mm) delicate stainless*

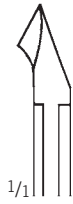
*\*Ideal for use in P/A.*

*Our splitters have the true feel of superb craftsmanship. The cutting edge is expertly ground and specially heat treated. For a sure grip, our stainless splitters come with grooved handles.*

**TISSUE NIPPERS AND NAIL NIPPERS**



**TISSUE NIPPER**



1/1

KM 69-290  
4" (102mm)  
6mm  
stainless



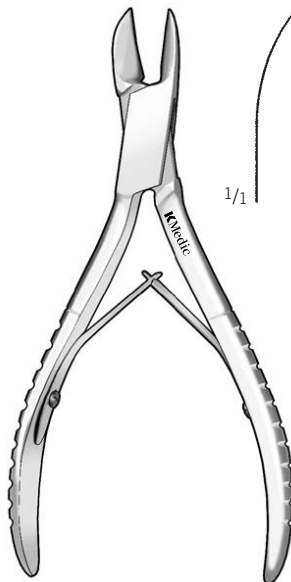
KM 69-291  
4" (102mm)  
9mm  
stainless



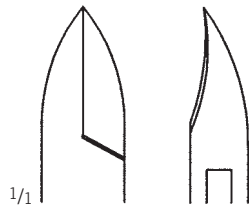
KM 69-292  
4 1/2" (114mm)  
11mm  
stainless



KM 69-294  
5" (127mm)  
14mm  
stainless



**NAIL NIPPER**  
KM 69-418  
5 1/2" (140mm)  
concave, narrow  
stainless



1/1



**NAIL NIPPER**  
5 1/2" (140mm)  
angled, concave  
KM 69-440 stainless, sharp end  
KM 69-441 stainless, blunt end



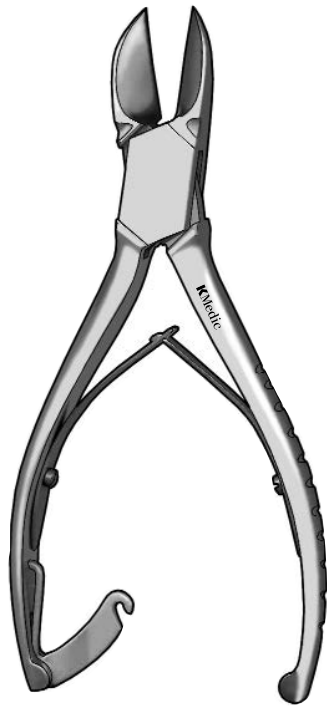
1/1

KM 69-440

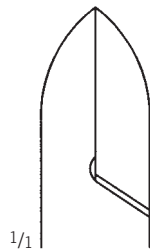


1/1

KM 69-441



**NAIL NIPPER** heavy



1/1  
KM 69-430  
5 1/2" (140mm)  
concave  
stainless



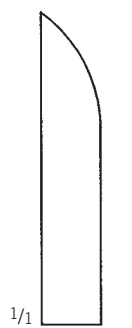
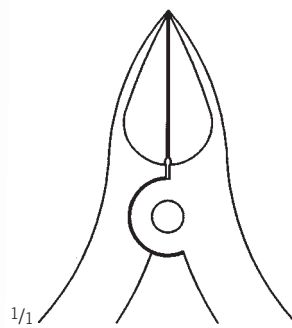
1/1  
KM 69-432  
5 1/2" (140mm)  
straight  
stainless



1/1  
KM 69-438  
6 1/2" (165mm)  
concave  
super size  
stainless



**MYCOTIC NAIL NIPPER**  
6" (152mm) stainless  
double action  
barrel spring



1/1  
KM 69-445  
straight

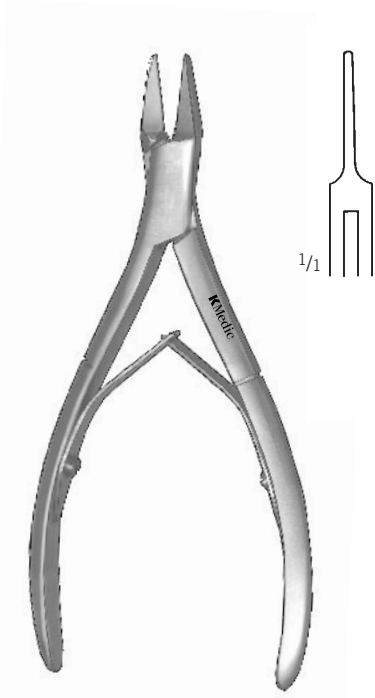


1/1  
KM 69-446  
concave

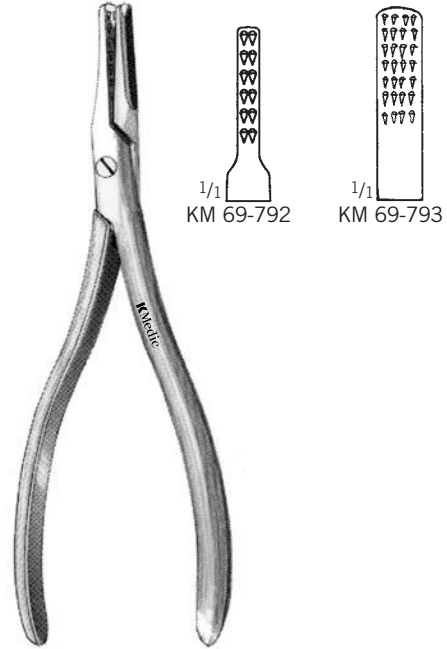
*Double action helps prevent hand fatigue.*

**NAIL INSTRUMENTS**

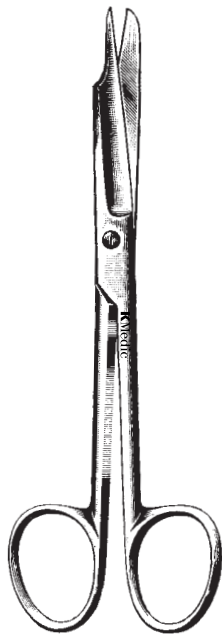
*Very delicate anvil design slides easily under nails.*



**INGROWN NAIL FORCEPS**  
 KM 69-348  
 5" (127mm) anvil pattern  
 narrow blade  
 stainless



**PLATYPUS NAIL REMOVING FORCEPS**  
 KM 69-792      KM 69-793  
 5½" (140mm)      5½" (140mm)  
 3mm                  6mm  
 narrow                broad



**INGROWN NAIL SPLITTING SCISSORS**  
 KM 69-805  
 6" (152mm)  
 one serrated blade



**NAIL SPICULE FORCEPS**  
 KM 69-352  
 5½" (140mm)

*Used to grasp nail spicules for removal.*

*Oxidation of lead surfaces is a normal process.*

*To prolong the life of lead hands autoclave temperatures should not exceed 248°F (120°C). Avoid using chemical sterilization as they can cause severe corrosion.*

*Lead hands are only good for several uses — should be replaced. Limited warranty (not stainless steel).*

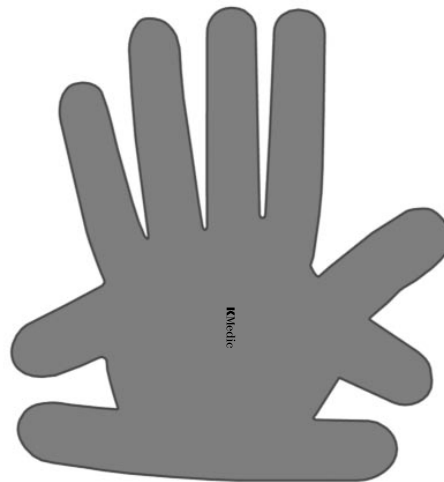


**LEAD HAND**  
 KM 49-092  
 9½" (241mm)  
 child



**LEAD HAND**  
 KM 49-090  
 14" (356mm)  
 adult

*Thinner and more flexible model. Longer fingers wrap on ends eliminating side tabs.*



**LEAD HAND**  
 KM 49-093  
 9½" (241mm)  
 adult  
 2mm thick

**SCALPEL HANDLES**



**MINI SCALPEL HANDLE #3K**  
 KM 29-070  
 For blades 61 through 67



**SCALPEL HANDLE #3**  
 KM 29-058  
 For blades 10 through 15

**#3L**  
 KM 29-061  
 extra long  
 8 1/2" (216mm)



**SCALPEL HANDLE #3**  
 KM 29-059  
 mm and cm graduations  
 for blades 10 through 15



**SCALPEL HANDLE #4**  
 KM 29-060  
 for blades 20 through 25



**SCALPEL HANDLE #7**  
 KM 29-062  
 for blades 10 through 15



**SCALPEL HANDLE #9**  
 KM 29-064  
 for blades 10 through 15  
 extra fine





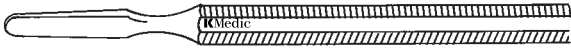
**SINGLE-ENDED INSTRUMENTS, SOLID OCTAGON HANDLES**  
 All detail drawings on this page shown full size.



**CURETTE EXCAVATOR (VERUCCA)**

KM 69-457  
 5" (127mm)  
 4mm without hole  
 single ended

*With McGlamry Bullneck.  
 Will resist bending.*



**LOCKE ELEVATOR**

KM 69-579  
 4½" (114mm) narrow blade  
 single ended

*With McGlamry Bullneck.  
 Will resist bending.*



KM 69-590  
 5" (127mm) wide blade  
 single ended



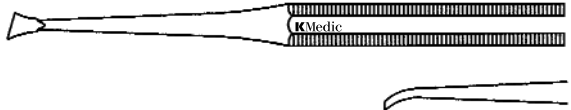
**BONE FILE #92A**

KM 69-530  
 6" (152mm)  
 single ended



**BONE FILE #92B**

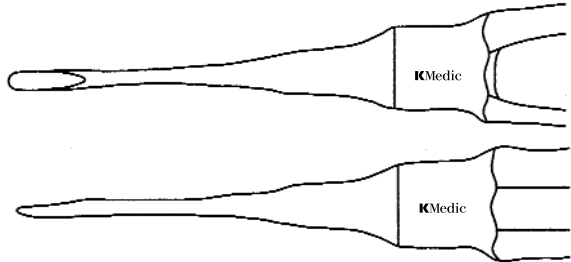
KM 69-534  
 6" (152mm)  
 single ended



**SCALER**

KM 19-568  
 6¼" (159mm)  
 single ended

*Can be useful as a  
 periosteal elevator.*

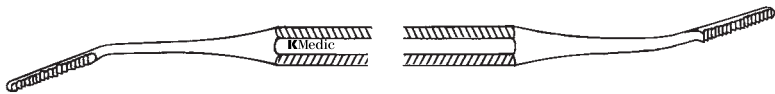


**ELEVATOR**

KM 21-261  
 6" (152mm)  
 single ended

*Can also be useful  
 as a gouge.*

**DOUBLE-ENDED INSTRUMENTS, SOLID OCTAGON HANDLES**  
 All detail drawings on this page shown full size.



**NAIL RASP**

KM 69-538  
 6¾" (171mm) angled  
 double ended



**JOHNSON-TUCKER HOOK  
 AND FORK**

KM 69-790  
 6½" (165mm) delicate  
 double ended

## SUPER-CUT SCISSORS

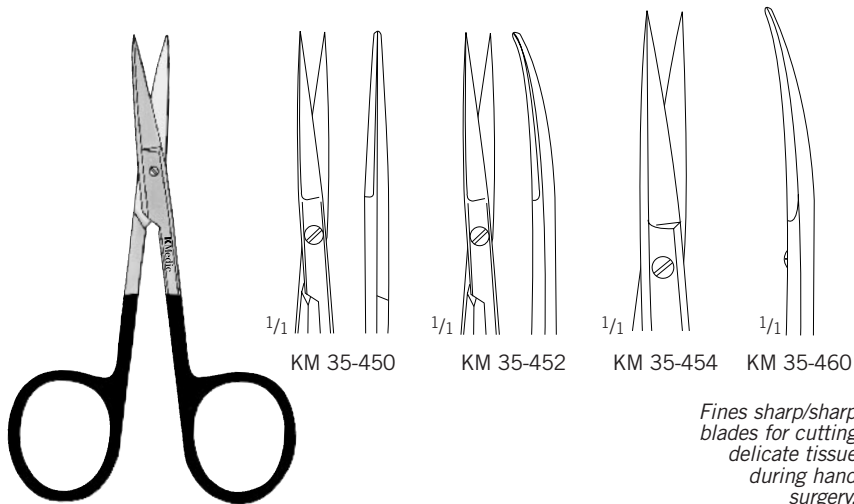
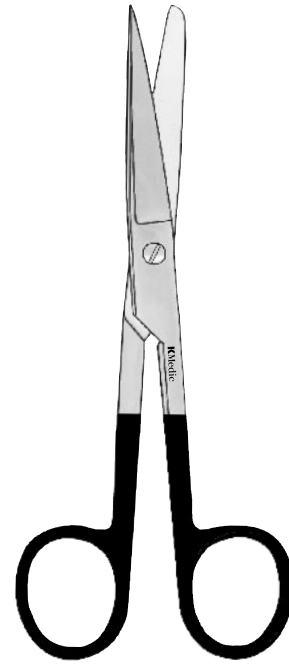
### KMedic Super-Cut Scissors

Super-Cut Scissors represent a truly remarkable advance in scissors technology. Using the finest surgical steels, the latest heat treating methods and master craftsmanship, the upper blade of the scissors is ground to a razor-sharp edge. This process creates scissors with an unprecedented smooth and effective cutting action.

#### Some of the benefits of KMedic Super-Cut Scissors:

- Cut through soft and fibrous tissue without effort.
- Superb control permits precision in dissection.
- Less hand fatigue for the surgeon and less trauma for the patient.
- Retain sharpness longer than ordinary scissors.
- Ring handles are black-coated for easy identification.
- Fully autoclavable.
- Backed by KMedic's lifetime guarantee.
- Not recommended for fiberglass or plaster splints.

Surgeons who use our Super-Cut Scissors are convinced of their superior performance and won't do without them on their surgical trays.



*Fines sharp/sharp blades for cutting delicate tissue during hand surgery.*

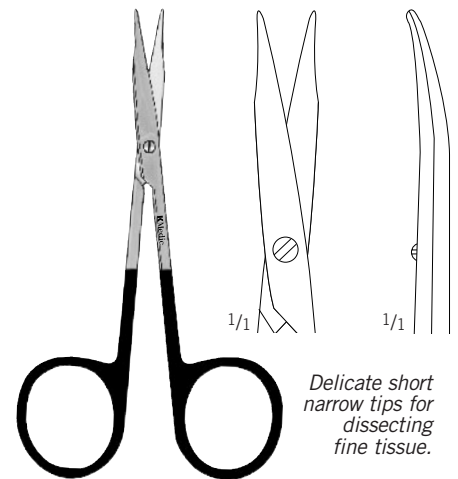
#### **SUPER-CUT IRIS SCISSORS** sharp points

*straight*

KM 35-450 3 1/2" (89mm) delicate  
KM 35-454 4 1/2" (114mm)

*curved*

KM 35-452 3 1/2" (89mm) delicate  
KM 35-460 4 1/2" (114mm)



*Delicate short narrow tips for dissecting fine tissue.*

#### **SUPER-CUT STEVENS SCISSORS** blunt points

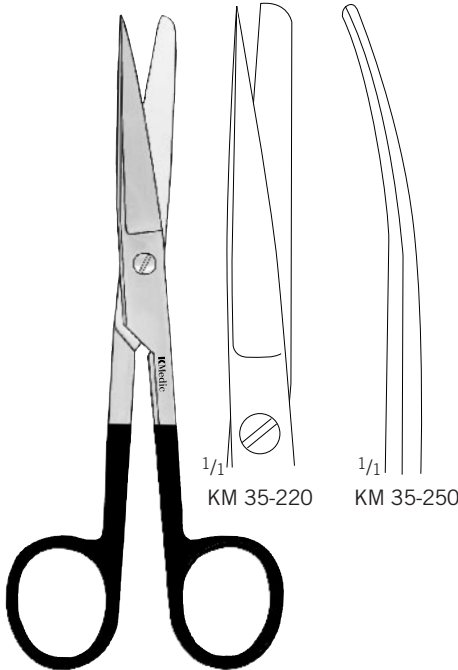
*straight*

KM 35-484  
4 1/2" (114mm)

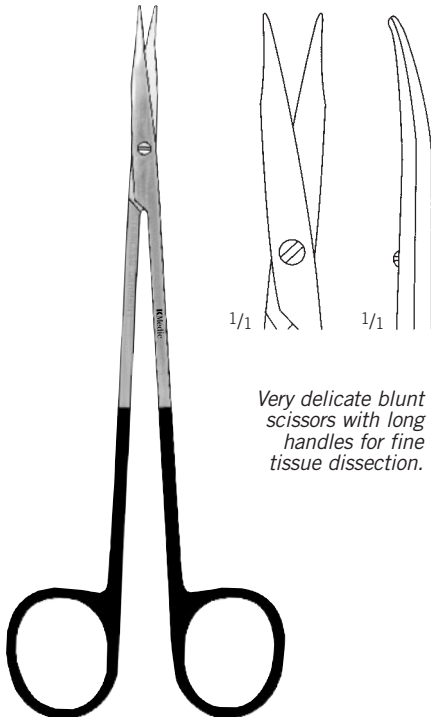
*curved*

KM 35-490  
4 1/2" (114mm)

KM 35-494  
5 1/4" (133mm)

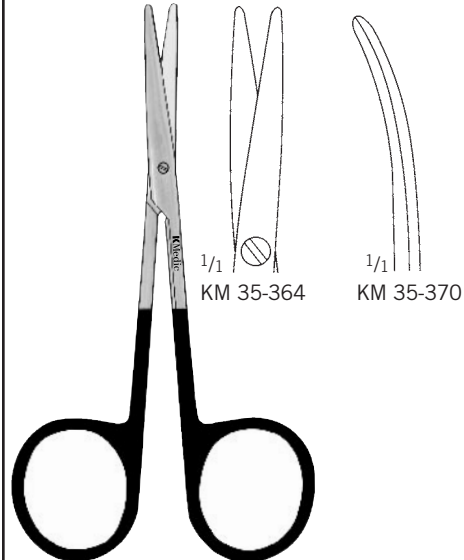


**SUPER-CUT OPERATING SCISSORS**  
 KM 35-220 5½" (140mm) straight sharp/blunt points  
 KM 35-250 5½" (140mm) curved sharp/blunt points

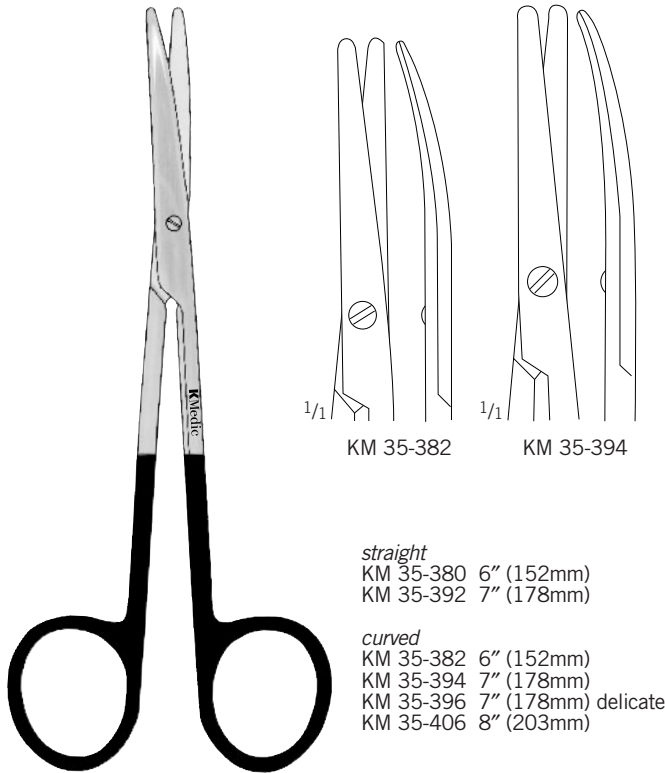


**SUPER-CUT JAMISON SCISSORS**  
 KM 35-496 6¼" (159mm) curved blunt points very delicate

*Very delicate blunt scissors with long handles for fine tissue dissection.*

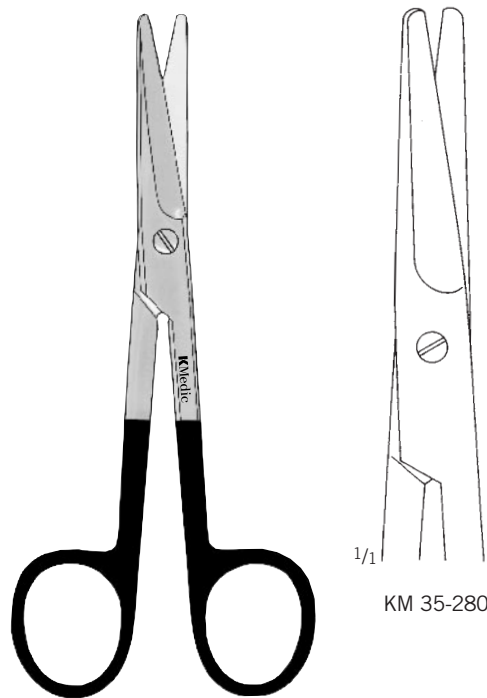


**SUPER-CUT BABY METZENBAUM SCISSORS**  
 KM 35-364 4½" (114mm) straight blunt points  
 KM 35-370 4½" (114mm) curved blunt points



**SUPER-CUT METZENBAUM SCISSORS** blunt points

- straight*
- KM 35-380 6" (152mm)
- KM 35-392 7" (178mm)
- curved*
- KM 35-382 6" (152mm)
- KM 35-394 7" (178mm)
- KM 35-396 7" (178mm) delicate
- KM 35-406 8" (203mm)



**SUPER-CUT MAYO SCISSORS**  
 beveled blades, blunt points  
*straight*  
 KM 35-280 5½" (140mm)  
 KM 35-292 6¾" (171mm)  
*curved*  
 KM 35-286 5½" (140mm)  
 KM 35-298 6¾" (171mm)

# SUPER-CUT SCISSORS

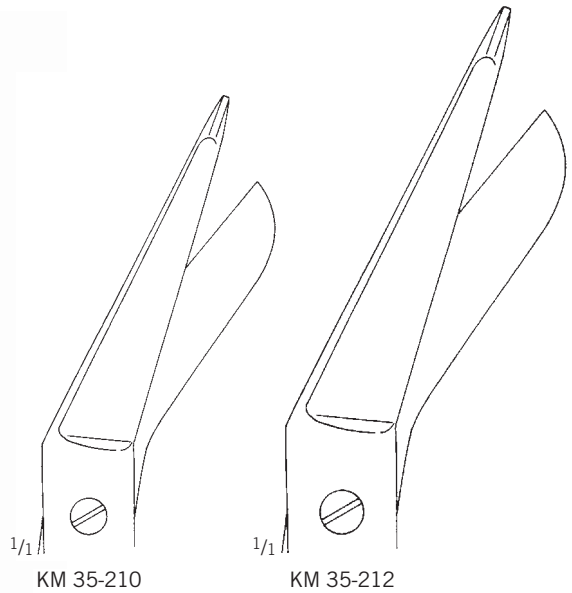
## Super-Cut Bandage Scissors

KMedic developed these four remarkably sharp scissors in response to the demands of doctors, nurses, and other O.R. personnel.

Hospital tests show that these scissors cut multiple layers of stockinette, bandages, drapes, and moleskin with ease.

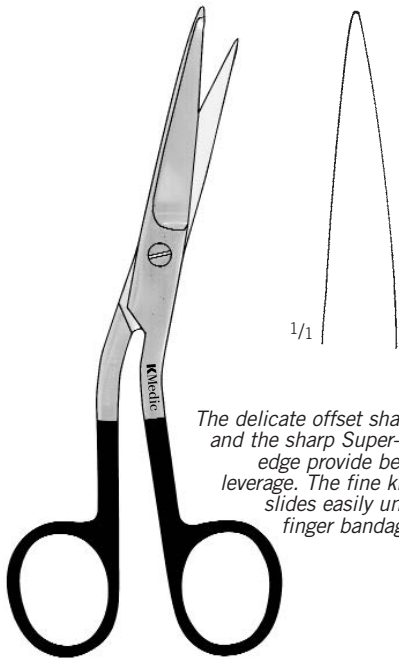
- Very little hand strength is required for cutting, putting less strain on thumb and forearm.
- Perfect cutting control because you don't have to force them to cut.
- Scissors cut faster, saving critical time in the O.R.
- Retain their sharpness longer than ordinary scissors.

**IMPORTANT NOTE:** Super-Cut Scissors should not be used to cut fiberglass or plaster splints.



### SUPER-CUT LISTER BANDAGE SCISSORS

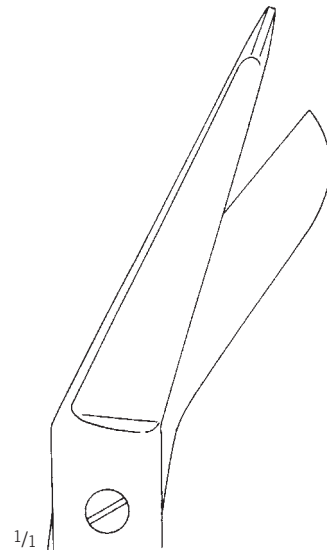
KM 35-210 5 1/2" (140mm) KM 35-212 7 1/4" (184mm)



*The delicate offset shanks and the sharp Super-Cut edge provide better leverage. The fine knob slides easily under finger bandages.*

### SUPER-CUT HI-LEVEL BANDAGE SCISSORS

KM 35-202 5 1/2" (140mm) shanks angled on side

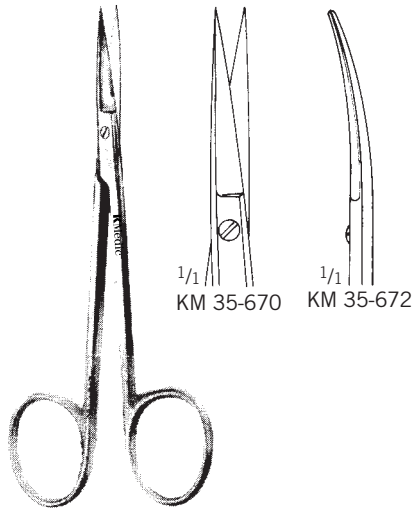


*Razor sharp scissors ideal for cutting heavy material—including: moleskin, drapes and stockinette. Not recommended for fiberglass or plaster splints. Oversized finger ring helps relieve pressure on the third metacarpal.*

### SUPER-CUT LISTER BANDAGE SCISSORS WITH LARGE FINGER RING

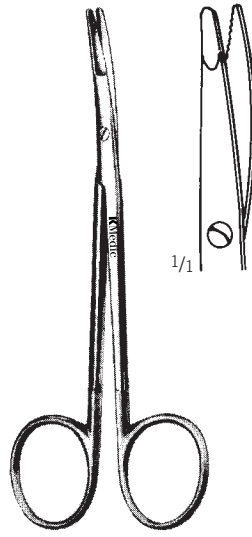
KM 35-214 8" (203mm)

*Tungsten carbide (TC) is one of the hardest alloys made today. Our TC scissors have tungsten carbide firmly bonded to both cutting edges. We guarantee that they will stay sharp for at least three years. The finger rings are gold plated for easy identification.*



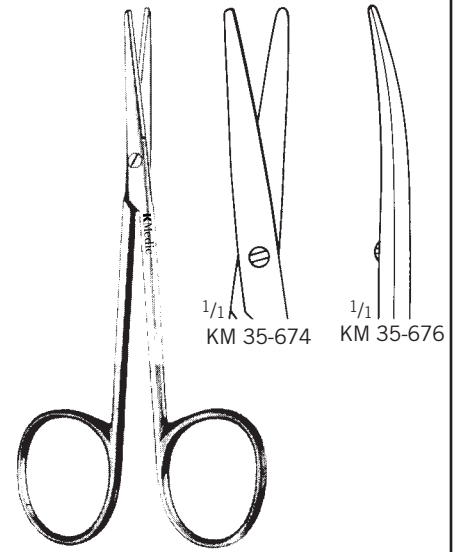
**TC IRIS SCISSORS**

KM 35-670	KM 35-672
4½" (114mm)	4½" (114mm)
straight	curved
sharp points	sharp points



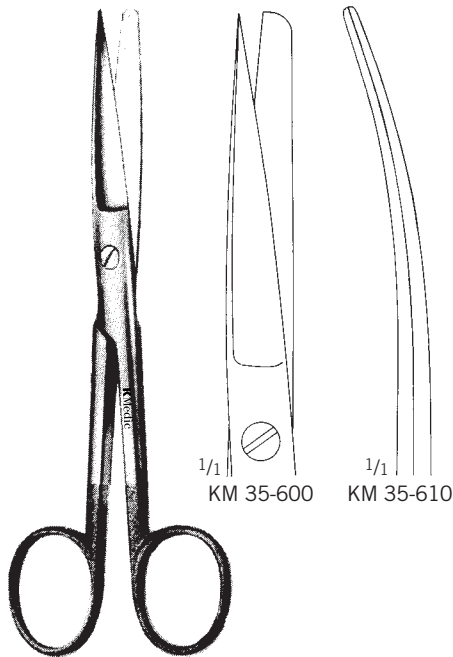
**BLEPHAROPLASTY SCISSORS**

KM 35-510  
4½" (114mm) curved flat tips, one serrated and one carbide blade



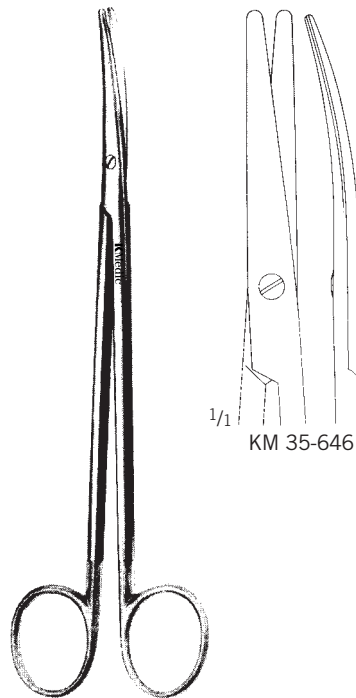
**TC STRABISMUS SCISSORS**

KM 35-674	KM 35-676
4½" (114mm)	4½" (114mm)
straight	curved
blunt points	blunt points



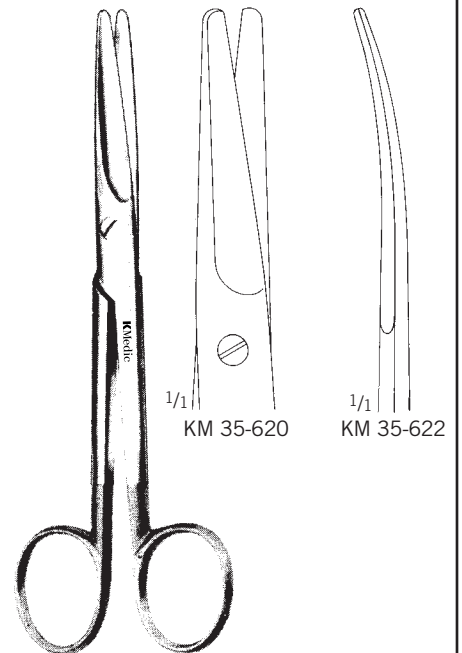
**TC OPERATING SCISSORS**

KM 35-600	KM 35-610
5½" (140mm)	5½" (140mm)
straight	curved
sharp/blunt	sharp/blunt



**TC METZENBAUM SCISSORS** blunt points

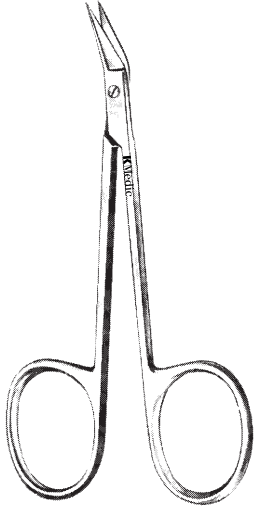
<i>straight</i>	<i>curved</i>	
KM 35-640 6"	KM 35-642 6" (152mm)	
KM 35-644 7"	KM 35-646 7" (178mm)	



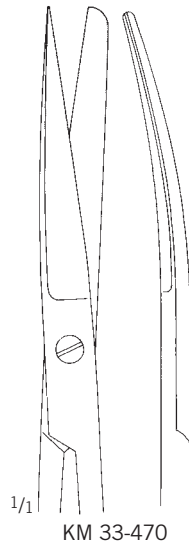
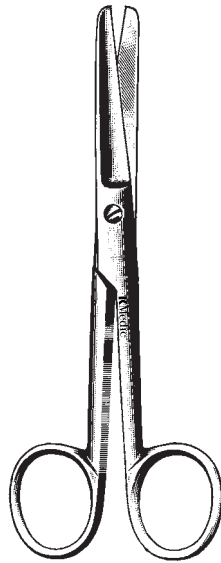
**TC MAYO SCISSORS** beveled blades

<i>straight</i>	<i>curved</i>	
KM 35-620 5½"	KM 35-622 5½" (140mm)	
KM 35-624 6¾"	KM 35-626 6¾" (171mm)	

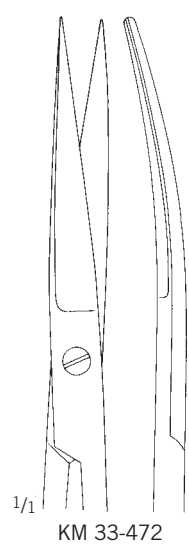
**OPERATING AND DISSECTING SCISSORS**



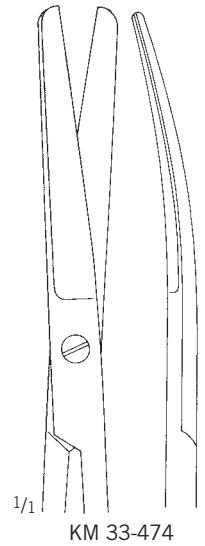
**BIRO DERMAL NAEVUS SCISSORS**  
 KM 35-515  
 4" (102mm)  
 angled on flat  
 sharp outside edges



1/1  
 KM 33-470



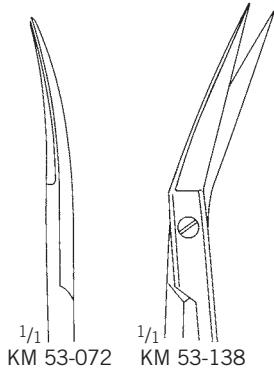
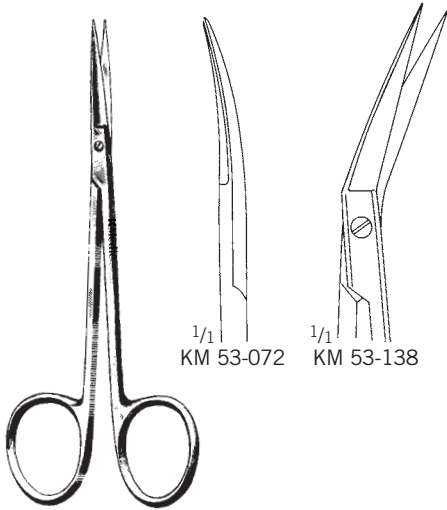
1/1  
 KM 33-472



1/1  
 KM 33-474

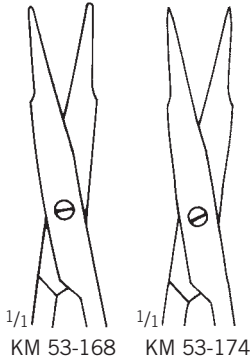
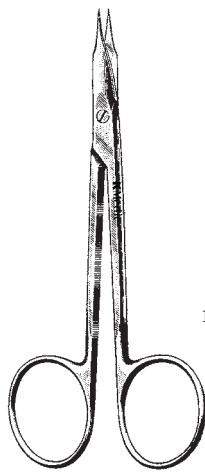
**OPERATING SCISSORS** *straight*  
 KM 33-300 4½" (114mm) sharp/blunt  
 KM 33-302 4½" (114mm) sharp/sharp  
 KM 33-304 4½" (114mm) blunt/blunt  
 KM 33-310 5" (127mm) sharp/blunt  
 KM 33-312 5" (127mm) sharp/sharp  
 KM 33-314 5" (127mm) blunt/blunt  
 KM 33-320 5½" (140mm) sharp/blunt  
 KM 33-322 5½" (140mm) sharp/sharp  
 KM 33-324 5½" (140mm) blunt/blunt  
 KM 33-370 6½" (165mm) sharp/blunt  
 KM 33-372 6½" (165mm) sharp/sharp  
 KM 33-374 6½" (165mm) blunt/blunt

**OPERATING SCISSORS** *curved*  
 KM 33-470 4½" (114mm) sharp/blunt  
 KM 33-472 4½" (114mm) sharp/sharp  
 KM 33-474 4½" (114mm) blunt/blunt  
 KM 33-482 5" (127mm) sharp/blunt  
 KM 33-484 5" (127mm) sharp/sharp  
 KM 33-486 5" (127mm) blunt/blunt  
 KM 33-490 5½" (140mm) sharp/blunt  
 KM 33-492 5½" (140mm) sharp/sharp  
 KM 33-494 5½" (140mm) blunt/blunt  
 KM 33-520 6½" (165mm) sharp/blunt  
 KM 33-522 6½" (165mm) sharp/sharp  
 KM 33-524 6½" (165mm) blunt/blunt



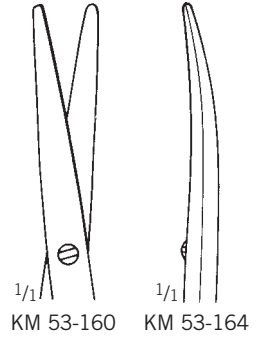
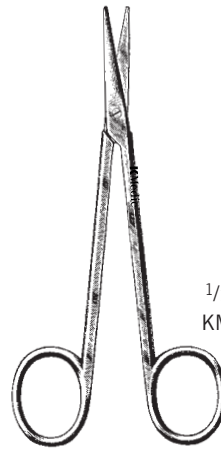
1/1  
 KM 53-072  
 1/1  
 KM 53-138

**IRIS SCISSORS** sharp points  
*straight*  
 KM 53-064 3½" (89mm)  
 KM 53-068 4½" (114mm)  
 KM 53-080 4½" deli.  
*curved*  
 KM 53-066 3½" (89mm)  
 KM 53-072 4½" (114mm)  
 KM 53-084 4½" (105mm) deli.  
 angled on side  
 KM 53-138 4½" (114mm)



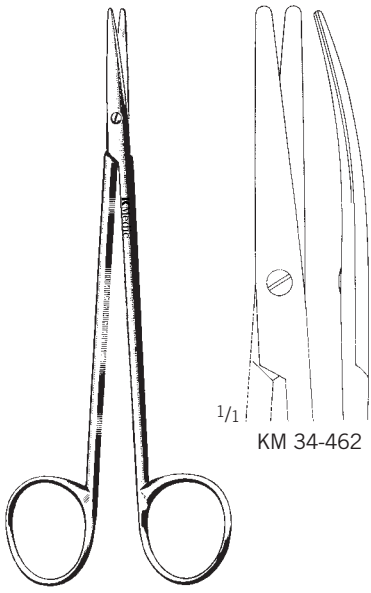
1/1  
 KM 53-168  
 1/1  
 KM 53-174

**STEVENS TENOTOMY SCISSORS**  
*straight*  
 KM 53-168 4¼" (108mm) blunt/blunt points  
 KM 53-174 4¼" (108mm) sharp/sharp points  
*curved*  
 KM 53-172 4¼" (108mm) blunt/blunt points  
 KM 53-176 4¼" (108mm) sharp/sharp points

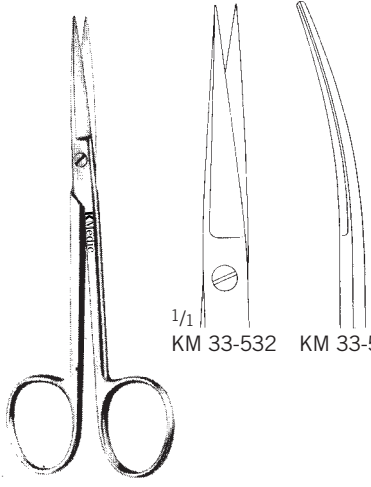


1/1  
 KM 53-160  
 1/1  
 KM 53-164

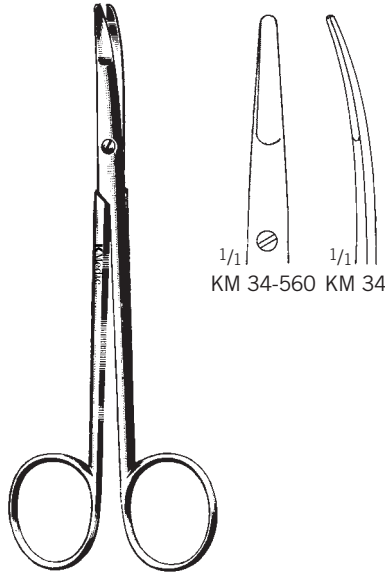
**STRABISMUS SCISSORS**  
 KM 53-160 4" (102mm) straight blunt points  
 KM 53-164 4" (102mm) curved blunt points



**METZENBAUM SCISSORS** blunt points  
*straight* *curved*  
 KM 34-436 4½" KM 34-438 4½" (114mm)  
 KM 34-458 6" KM 34-492 5¾" (146mm) del.  
 KM 34-466 7" KM 34-462 6" (152mm)  
 KM 34-470 7" (178mm)  
 KM 34-494 7" (178mm) del.

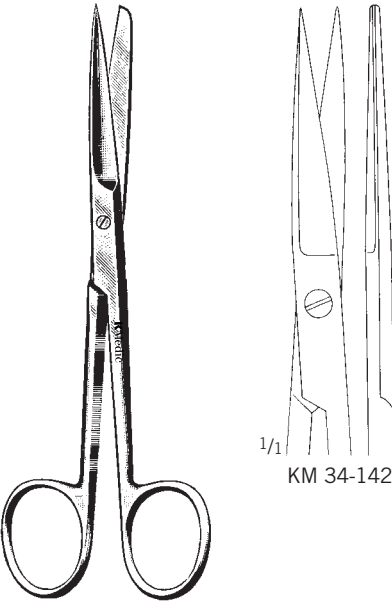


**PLASTIC SURGERY SCISSORS** 4¾" (121mm)  
*straight* *curved*  
 KM 33-532 sharp/sharp KM 33-538 sharp/sharp  
 KM 33-534 sharp/blunt KM 33-540 sharp/blunt  
 KM 33-536 blunt/blunt KM 33-542 blunt/blunt  
 angled on side  
 KM 33-544 sharp/sharp

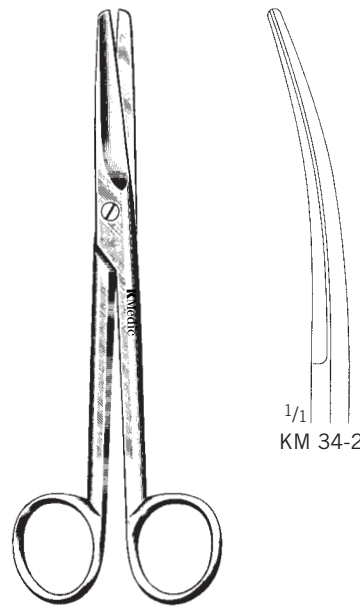


**RAGNELL SCISSORS**  
 KM 34-560 KM 34-562  
 5" (127mm) 7" (178mm)  
 curved curved  
 flat blunt tips flat blunt tips


*Most scissors can be serrated upon request.*



**DEAVER SCISSORS** 5½" (140mm)  
*straight* *curved*  
 KM 34-140 sharp/blunt KM 34-150 sharp/blunt  
 KM 34-142 sharp/sharp KM 34-152 sharp/sharp



**MAYO SCISSORS** beveled blades  
*straight* *curved*  
 KM 34-256 5½" KM 34-258 5½" (140mm)  
 KM 34-260 6¾" KM 34-262 6¾" (171mm)

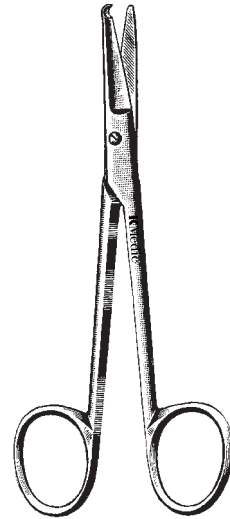


**SISTRUNK SCISSORS** delicate  
 KM 34-348 KM 34-354  
 5" (127mm) 5" (127mm)  
 straight curved

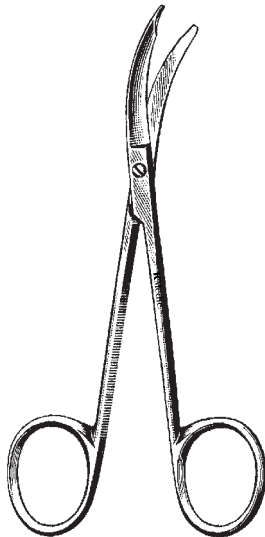
**NAIL AND SUTURE SCISSORS**



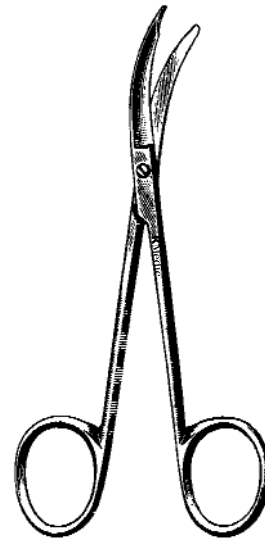
**NAIL SCISSORS**  
 KM 69-106  
 3½" (89mm)  
 curved



**SPENCER STITCH SCISSORS**  
 delicate, straight  
 KM 35-068 3½" (89mm)  
 KM 35-092 4¾" (121mm)

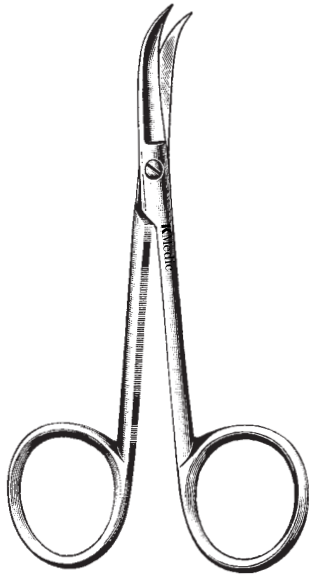


**SHORTBENT STITCH SCISSORS**  
 KM 35-080  
 3½" (89mm)  
 curved on side  
 delicate

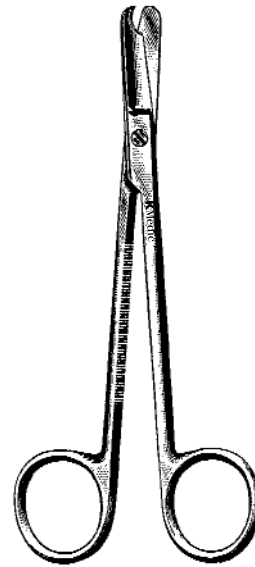


**NORTHBENT STITCH SCISSORS**  
 KM 35-104  
 4¾" (121mm)  
 curved on side

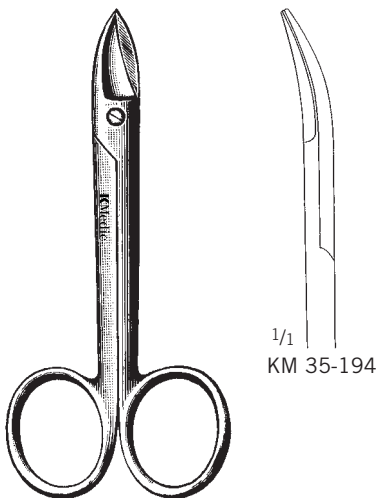




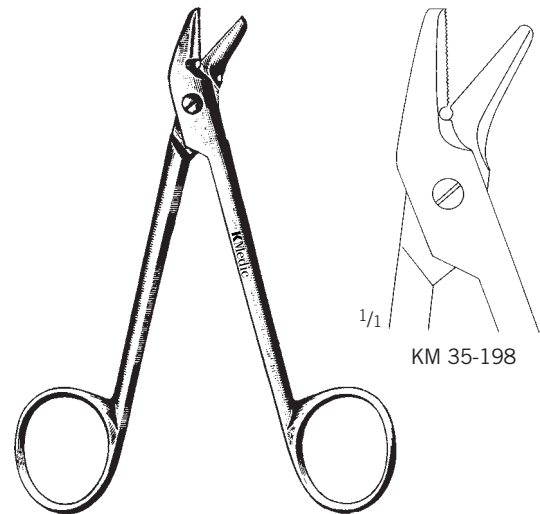
**HILL STITCH SCISSORS**  
 KM 35-084  
 4 1/4" (108mm)  
 curved



**LITTAUER STITCH SCISSORS**  
 KM 35-120  
 5 1/2" (140mm)

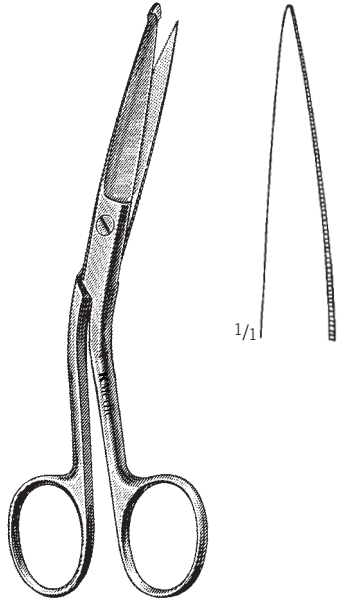


**WIRE CUTTING SCISSORS** 4" (102mm)  
*straight*  
 KM 35-168 smooth  
 KM 35-170 one serrated blade  
*curved*  
 KM 35-192 smooth  
 KM 35-194 one serrated blade

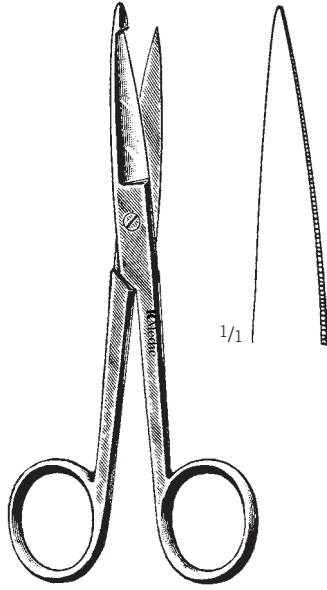


**WIRE CUTTING SCISSORS** 4 3/4" (121mm)  
 KM 35-198  
 one serrated blade, angular  
 KM 35-200  
 one serrated blade, angular carbide

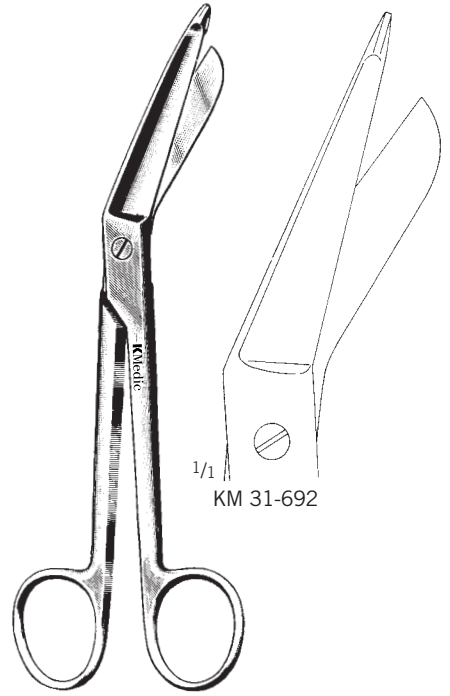
**BANDAGE AND UTILITY SCISSORS**



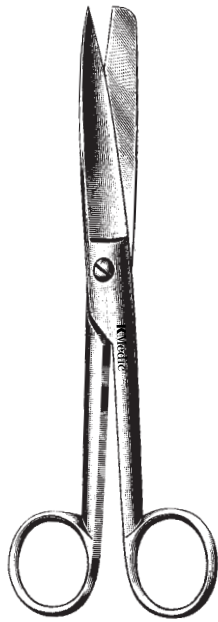
**HI-LEVEL BANDAGE SCISSORS**  
 KM 31-792  
 5½" (140mm)  
 one serrated blade



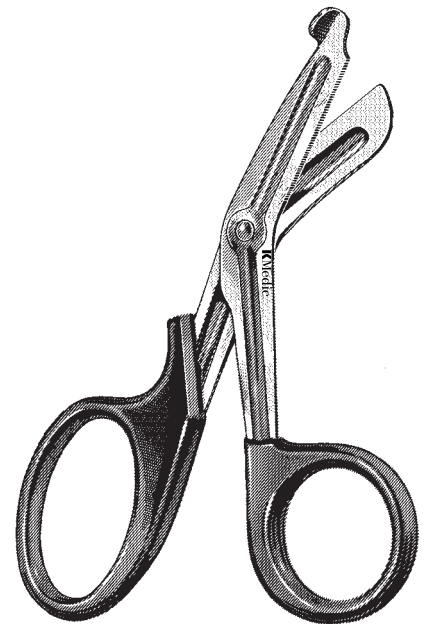
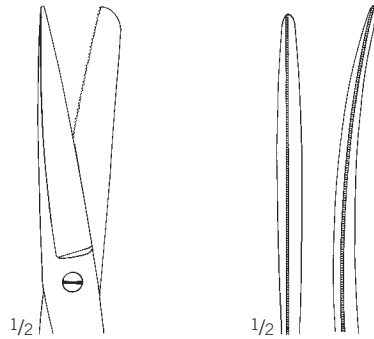
**KNOWLES BANDAGE SCISSORS**  
 KM 31-804  
 5½" (140mm)  
 one serrated blade



**LISTER BANDAGE SCISSORS**  
 KM 31-668 3½" (89mm)  
 KM 31-680 4½" (114mm)  
 KM 31-692 5½" (140mm)  
 KM 31-704 7¼" (184mm)  
 KM 31-708 8" (203mm) one large finger ring

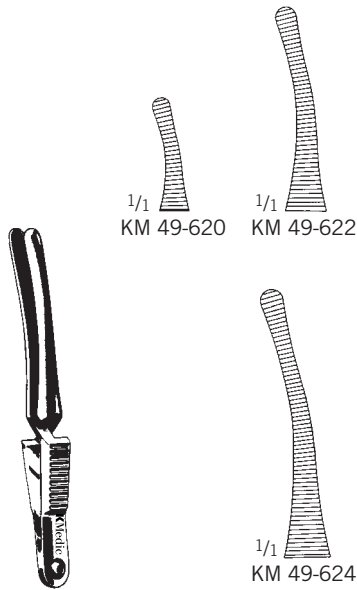


**MOLESKIN SCISSORS** one blade serrated  
 KM 69-820 7½" (191mm) straight  
 KM 69-824 7½" (191mm) curved



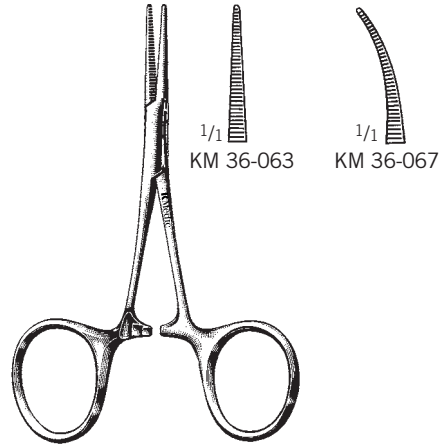
**UTILITY SCISSORS** one blade serrated  
 KM 31-832 6" (152mm)  
 KM 31-830 7½" (191mm)

*With autoclavable black plastic finger rings.*



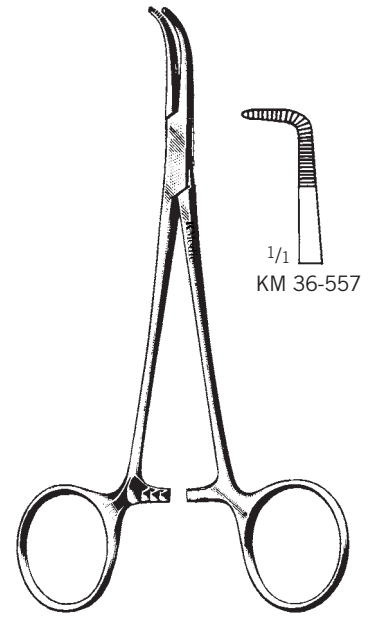
**JOHNS HOPKINS BULLDOG CLAMPS**

<i>straight</i>	<i>curved</i>
KM 49-602 1½"	KM 49-618 ½" (38mm)
KM 49-604 2"	KM 49-620 2" (51mm)
KM 49-606 2½"	KM 49-622 2½" (64mm)
KM 49-608 3"	KM 49-624 3" (76mm)
KM 49-610 3½"	KM 49-626 3½" (89mm)

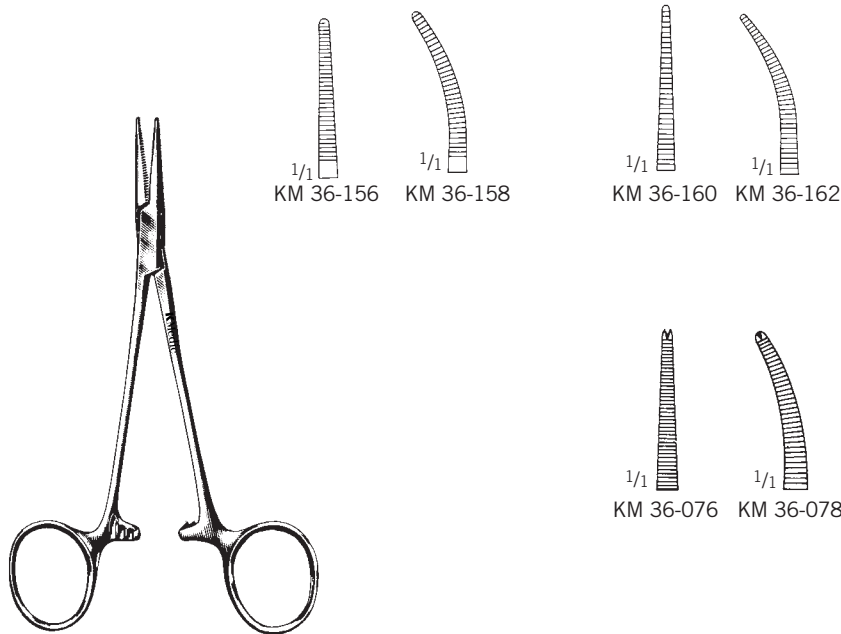


**HARTMANN MOSQUITO FORCEPS**

KM 36-063 3½" (89mm) straight	KM 36-067 3½" (89mm) curved
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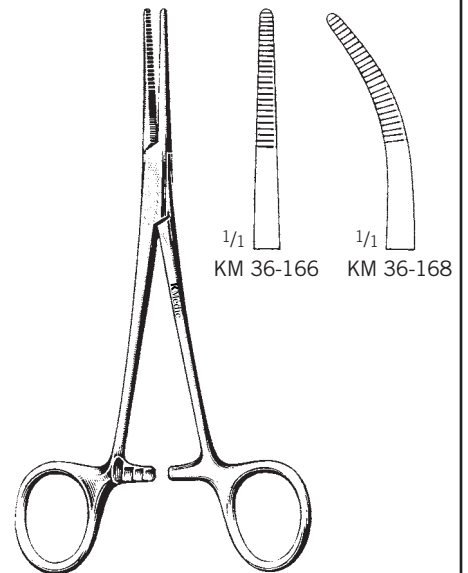


**MIXER FORCEPS** fully curved  
KM 36-557 5¼" (133mm) delicate  
KM 36-562 6¼" (159mm)



**HALSTED MOSQUITO FORCEPS** 5" (127mm)

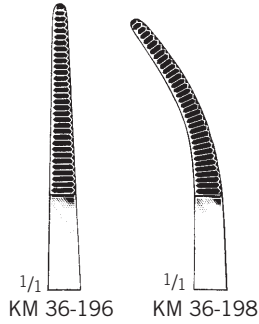
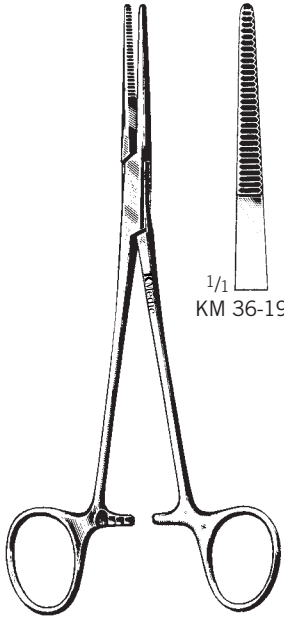
<i>straight</i>	<i>curved</i>
KM 36-156	KM 36-158
KM 36-160 delicate	KM 36-162 delicate
KM 36-076 1x2 teeth	KM 36-078 1x2 teeth



**KELLY FORCEPS**

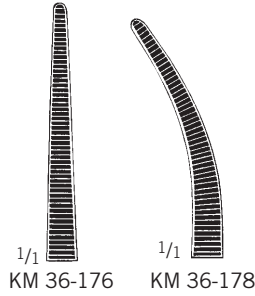
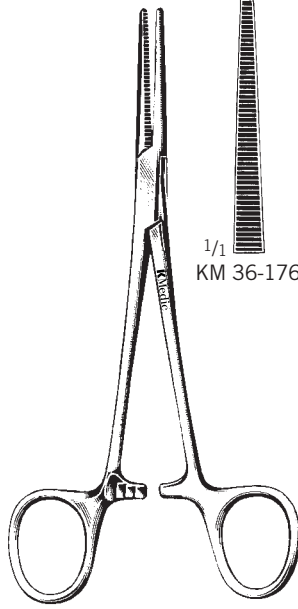
KM 36-166 5½" (140mm) straight	KM 36-168 5½" (140mm) curved
--------------------------------------	------------------------------------

**HEMOSTATIC AND TISSUE FORCEPS**



**RANKIN-KELLY FORCEPS**

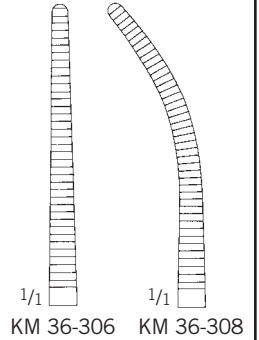
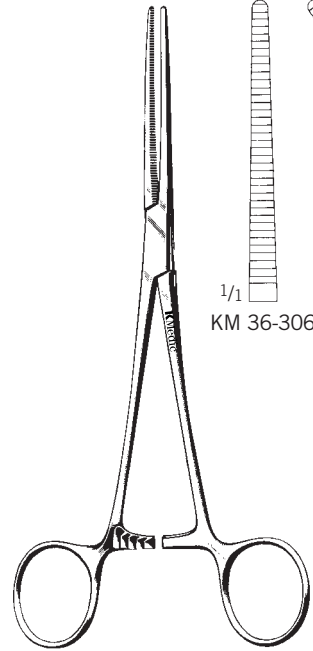
KM 36-196 6 1/4" (159mm) straight  
 KM 36-198 6 1/4" (159mm) curved



**CRILE FORCEPS**

*straight*  
 KM 36-176 5 1/2"  
 KM 36-180 5 1/2" extra delicate

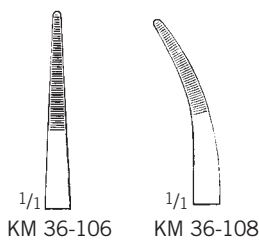
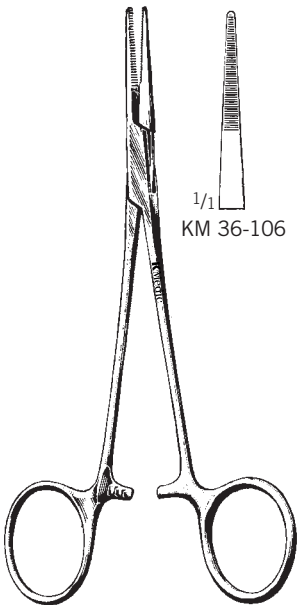
*curved*  
 KM 36-178 5 1/2" (140mm)  
 KM 36-182 5 1/2" (140mm) extra delicate



**ROCHESTER PEAN FORCEPS**

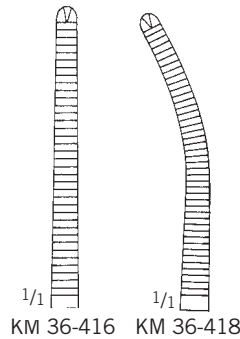
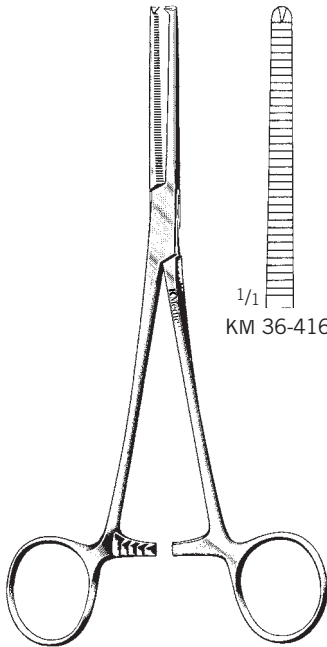
*straight*  
 KM 36-306 5 1/2"  
 KM 36-316 6 1/4"

*curved*  
 KM 36-308 5 1/2" (140mm)  
 KM 36-318 6 1/4" (159mm)



**PROVIDENCE HOSPITAL FORCEPS**

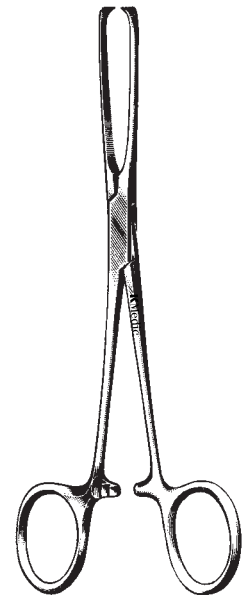
KM 36-106 5 1/2" (140mm) straight  
 KM 36-108 5 1/2" (140mm) curved




**ROCHESTER-OSHSNER FORCEPS** 1x2 teeth

*straight*  
 KM 36-406 5 1/2"  
 KM 36-416 6 1/4"

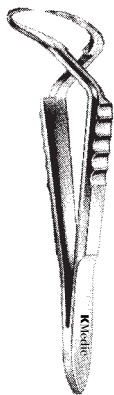
*curved*  
 KM 36-408 5 1/2" (140mm)  
 KM 36-418 6 1/4" (159mm)



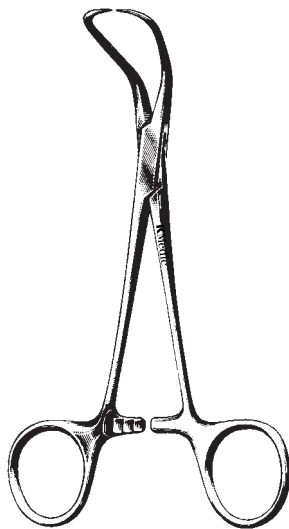
1/1   
 KM 43-105

**ALLIS TISSUE FORCEPS**

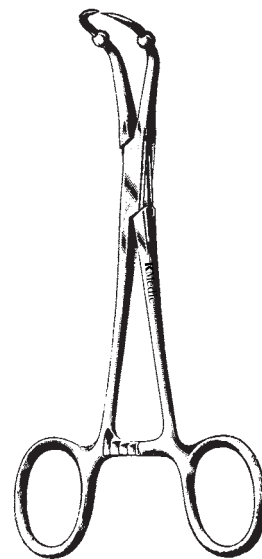
KM 43-105 4 3/4" (121mm) 4x5 teeth delicate  
 KM 43-107 5 3/4" (146mm) 4x5 teeth delicate  
 KM 43-110 6" (152mm) 3x4 teeth standard  
 KM 43-112 6" (152mm) 4x5 teeth standard  
 KM 43-116 6" (152mm) 5x6 teeth standard



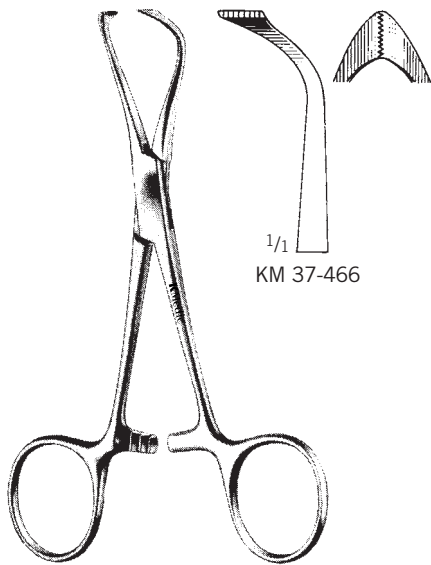
**JONES TOWEL FORCEPS**  
 KM 37-470 2½" (64mm)  
 KM 37-478 3¼" (83mm)



**BACKHAUS TOWEL FORCEPS**  
 KM 37-458 3½" (89mm)  
 KM 37-462 5¼" (133mm)

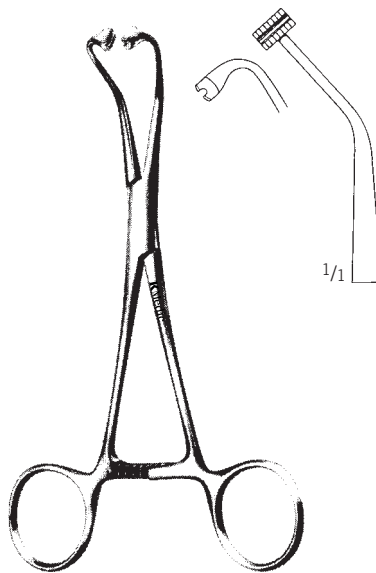


**BACKHAUS-ROEDER TOWEL CLAMP**  
 KM 37-464  
 5¼" (133mm) with ball stops



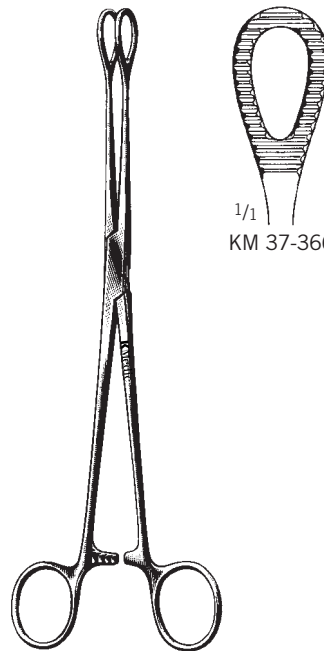
1/1  
 KM 37-466

**LORNA (EDNA) TOWEL CLAMP**  
 KM 37-466 4" (102mm) non-perforating  
 KM 37-468 5¼" (133mm) non-perforating



1/1

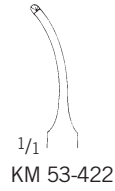
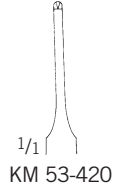
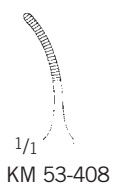
**PEERS TOWEL CLAMP**  
 KM 37-456 5¼" (146mm) non-perforating



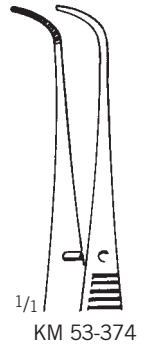
1/1  
 KM 37-366

**FOERSTER SPONGE FORCEPS 7" (178mm)**  
 straight KM 37-366 serrated KM 37-370 smooth  
 curved KM 37-368 serrated KM 37-372 smooth

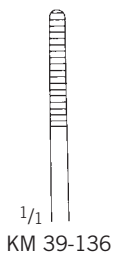
**DRESSING FORCEPS**



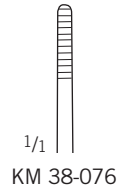
**GRAEFE EYE DRESSING FORCEPS 2½" (64mm)**  
 KM 53-404 straight serrated  
 KM 53-408 curved serrated  
 KM 53-420 straight 1x2 teeth  
 KM 53-422 curved 1x2 teeth



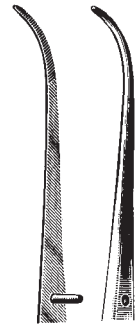
**EYE DRESSING FORCEPS 4" (102mm)**  
 serrated  
 KM 53-368 straight  
 KM 53-372 half curved  
 KM 53-374 full curved



**DRESSING FORCEPS**  
 serrated with fluted handles  
 KM 39-128 4½" (114mm)  
 KM 39-132 5" (127mm)  
 KM 39-136 5½" (140mm)  
 KM 39-140 6" (152mm)



**DRESSING FORCEPS** serrated  
 KM 38-076 4½" (114mm)  
 KM 38-080 5" (127mm)  
 KM 38-084 5½" (140mm)  
 KM 38-088 6" (152mm)



**DRESSING FORCEPS**  
 KM 38-082  
 5" (127mm) curved  
 fine point serrated



**TISSUE FORCEPS**  
 1x2 teeth with fluted handles  
 KM 39-310 4½" (114mm)  
 KM 39-314 5" (127mm)  
 KM 39-318 5½" (140mm)  
 KM 39-322 6" (152mm)



1x2  
teeth

2x3  
teeth

3x4  
teeth

**TISSUE FORCEPS**  
*1x2 teeth*  
 KM 38-264 4½" (114mm)  
 KM 38-268 5" (127mm)  
 KM 38-272 5½" (140mm)  
 KM 38-276 6" (152mm)  
*2x3 teeth*  
 KM 38-292 5" (127mm)  
 KM 38-296 5½" (140mm)  
*3x4 teeth*  
 KM 38-304 5½" (140mm)



1/1 KM 39-076 1/1 KM 39-080

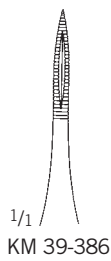
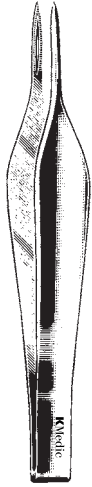
**SEMKEN FORCEPS**  
*serrated*  
 KM 39-076 5" (127mm)  
 KM 39-086 6" (152mm)  
*1x2 teeth*  
 KM 39-080 5" (127mm)  
 KM 39-088 6" (152mm)



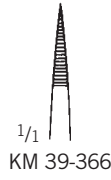
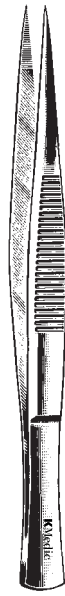
1/1 KM 49-168

**DEBAKEY ATRAUMATIC TISSUE FORCEPS**  
 6¼" (159mm)  
 KM 49-168 1.5mm  
 KM 49-180 2.0mm  
 KM 49-210 3.5mm

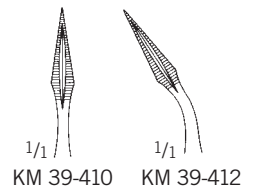
**SPLINTER FORCEPS**



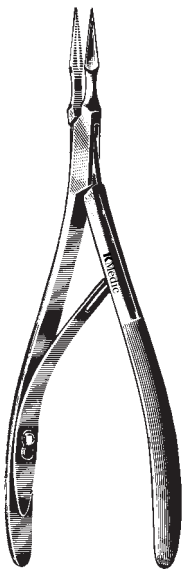
**FEILCHENFELD FORCEPS** serrated  
KM 39-386 3 1/4" (83mm)  
KM 39-390 4 1/2" (114mm)



**PLAIN SPLINTER FORCEPS** serrated  
KM 39-364 3 1/2" (89mm)  
KM 39-366 4 1/2" (114mm)



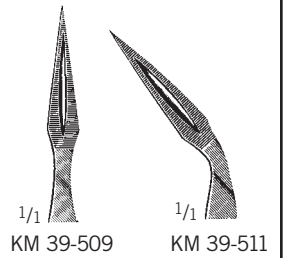
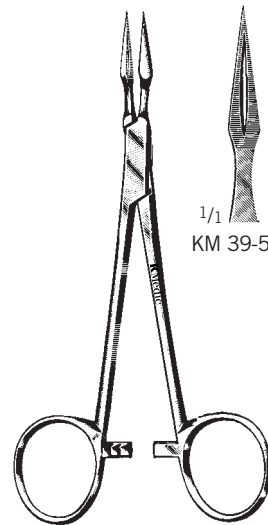
**CARMALT SPLINTER FORCEPS** serrated  
KM 39-410 4 1/4" (108mm) straight  
KM 39-412 4 1/4" (108mm) curved



**VIRTUS SPLINTER FORCEPS**  
KM 39-478 6" (152mm) straight  
serrated

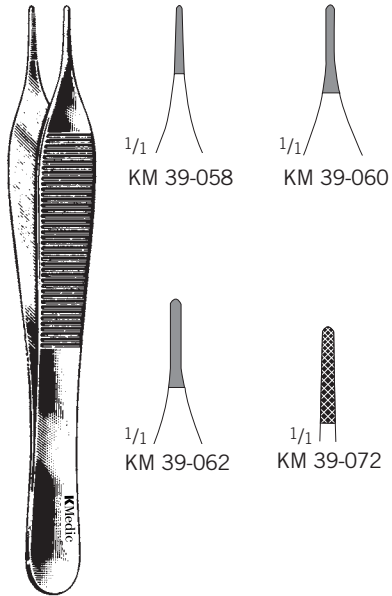


**VANGUARD SPLINTER LIBERATOR**  
KM 39-534 5" (127mm), trocar  
in reversible handle  
KM 39-536 trocar point only



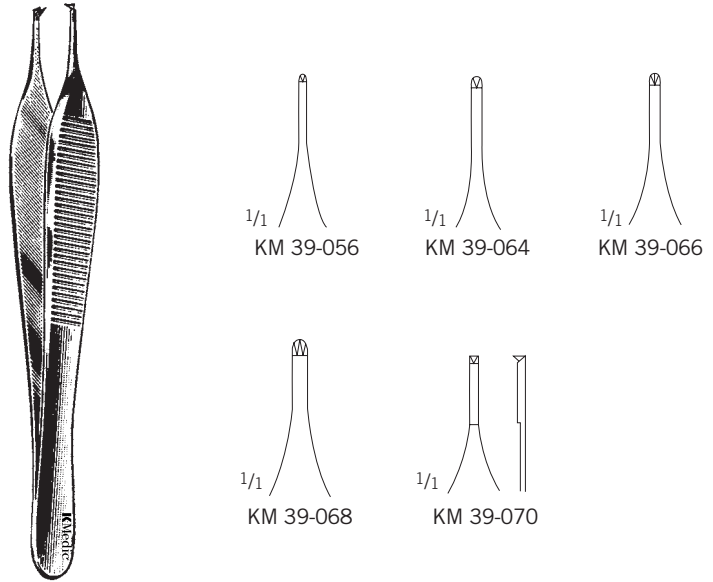
**WILLIAMS SPLINTER FORCEPS** serrated  
KM 39-509 5 1/2" (140mm) straight  
KM 39-511 5 1/2" (133mm) 45 degree angled  
KM 39-513 5 1/2" (140mm) 90 degree angled





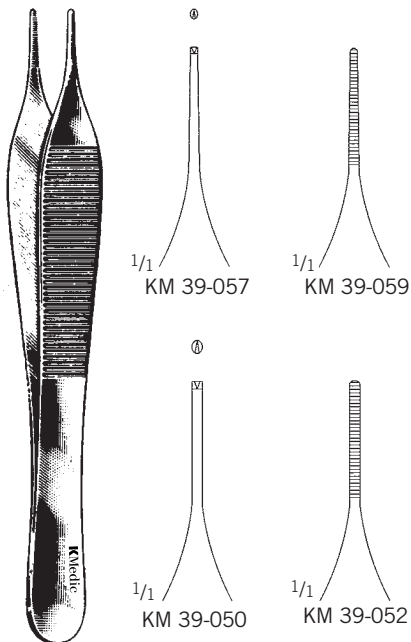
**ADSON DRESSING FORCEPS**

4 3/4" (121mm) serrated  
 KM 39-058 micro tip  
 KM 39-060 delicate tip  
 KM 39-062 standard tip  
 KM 39-072 carbide tip



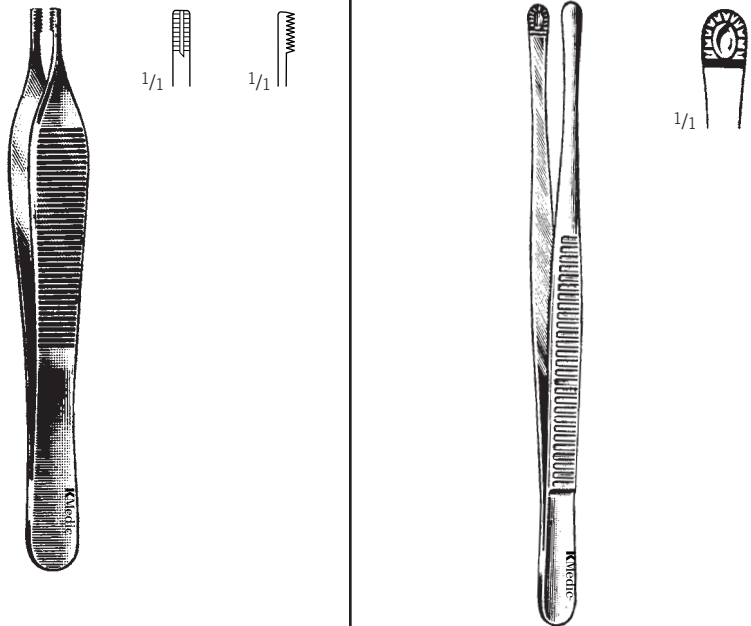
**ADSON TISSUE FORCEPS 4 3/4" (121mm)**

1x2 teeth  
 KM 39-056 micro tip  
 KM 39-063 serrated tip  
 KM 39-064 delicate tip  
 KM 39-066 standard tip  
 KM 39-070 delicate, with tying platform  
 2x3 teeth  
 KM 39-068



**ADSON DRESSING AND TISSUE FORCEPS 6" (152mm)**

KM 39-057 micro 1x2 teeth  
 KM 39-059 micro serrated  
 KM 39-050 1x2 teeth  
 KM 39-052 serrated



**ADSON BROWN FORCEPS**

KM 39-092  
 4 3/4" (121mm)  
 9x9 teeth  
 side grasping

**RUSSIAN FORCEPS**

KM 39-192  
 6" (152mm)

**MICROSURGICAL INSTRUMENTS**

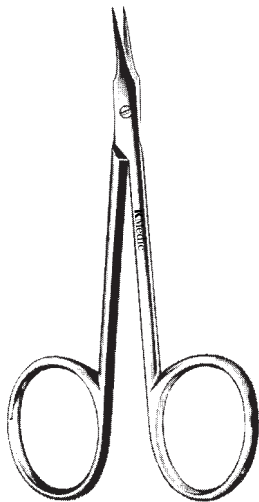


**MICRO SURGERY SET (MAJOR SET) KM 69-915**  
complete set includes one each of the following:

- KM 44-012 MICRO TYING FORCEPS 4 $\frac{3}{8}$ " (111mm) 0.3mm tip
- KM 44-032 BARRAQUER NEEDLE HOLDER 5" (127mm) curved, with lock
- KM 44-018 MICRO SCISSORS 5" (127mm) straight, long blade, round handle
- KM 53-380 GRAEFE IRIS FORCEPS 4" (102mm) straight 1x2 teeth
- KM 44-028 MICRO CLAMP APPLICATOR 5 $\frac{1}{2}$ " (140mm)
- KM 44-030 APPROXIMATION CLAMP without suture holding frame
- KM 44-022 MICRO SCISSORS (REILL) 5 $\frac{1}{2}$ " (140mm) curved, serrated
- KM 44-014 PLATFORM TYING FORCEPS 5 $\frac{1}{2}$ " (140mm) 0.7mm tip
- KM 44-024 HEPP-SCHEIDEL DISSECTING SCISSORS 5 $\frac{1}{2}$ " (140mm) curved
- KM 44-031 CLAMP BOX for micro clamps KM 44-030
- KM 98-135 STERILIZATION AND INSTRUMENT CASE for eight piece micro set
- KM 98-136 INSTRUMENT RACK for eight piece micro set

**MICRO SURGERY SET (MINI SET) KM 69-917**  
complete set includes one each of the following:

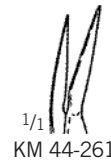
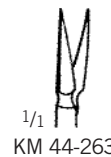
- KM 44-014 PLATFORM TYING FORCEPS 5 $\frac{1}{2}$ " (140mm) 0.7mm tip
- KM 44-032 BARRAQUER NEEDLE HOLDER 5" (127mm) curved with lock
- KM 44-020 MICRO SCISSORS 5" (127mm) curved, long blade, round handle
- KM 98-137 STERILIZATION AND INSTRUMENT CASE for three piece micro set



**GRADLE SCISSORS**  
KM 53-316  
3 $\frac{3}{4}$ " (95mm) slightly curved  
sharp/sharp



**GRADLE SCISSORS**  
KM 53-318  
4" (102mm) slightly curved  
ribbon type, sharp/sharp points



**VANNAS SCISSORS 3 $\frac{1}{4}$ " (82mm)**  
very delicate  
KM 44-263 straight  
KM 44-262 curved  
KM 44-261 bent  
KM 44-260 angled on flat



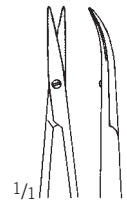
**WESTCOTT MICRO-TENOTOMY SCISSORS**

4" (102mm) 10mm blade  
 KM 44-272 straight, blunt  
 KM 44-270 curved, blunt  
 KM 44-273 straight, sharp  
 KM 44-271 curved, sharp



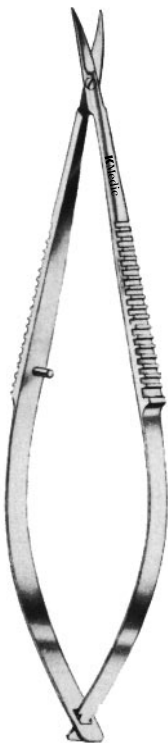
**WESTCOTT TENOTOMY SCISSORS**

4 3/4" (121mm) 22mm blade  
 KM 44-276 straight, blunt  
 KM 44-274 curved, blunt  
 KM 44-277 straight, sharp  
 KM 44-275 curved, sharp



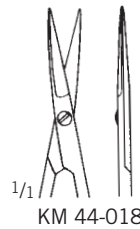
**HEPP-SCHEIDEL DISSECTING SCISSORS**

KM 44-024  
 5 1/2" curved

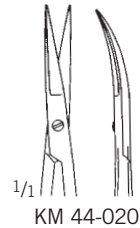


**MICRO SCISSORS (REILL)**

KM 44-022  
 5 1/2" (140mm) curved  
 serrated



KM 44-018



KM 44-020



KM 44-256

**MICRO SPRING SCISSORS** round handle

KM 44-018 5" (127mm) straight, 11mm blade  
 KM 44-020 5" (127mm) curved, 11mm blade  
 KM 44-257 6" (152mm) straight, 9mm blade  
 KM 44-255 6" (152mm) curved, 9mm blade  
 KM 44-256 6" (152mm) straight, 14mm blade  
 KM 44-254 6" (152mm) curved, 14mm blade



KM 44-250

**MICRO SPRING SCISSORS** flat handle

6" (152mm)  
 KM 44-253 straight, 9mm blade  
 KM 44-251 curved, 9mm blade  
 KM 44-252 straight, 14mm blade  
 KM 44-250 curved, 14mm blade

**MICROSURGICAL INSTRUMENTS**



**BISHOP HARMAN FORCEPS** 3 3/8" (86mm)  
 KM 53-426 extra delicate serrated 0.7mm  
 KM 53-428 delicate serrated 1.0mm  
 KM 53-440 delicate 1x2 teeth 1.0mm



**TROUTMAN-BARRAQUER FORCEPS**  
 KM 53-460  
 3" (76mm) 1x2 teeth  
 0.12mm with tying platform



KM 53-382

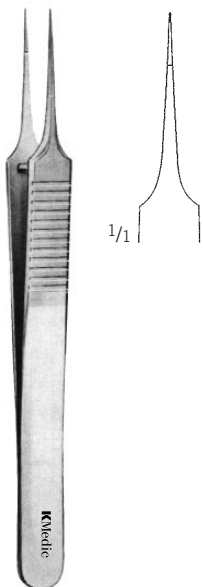


KM 53-384

**GRAEFE IRIS FORCEPS** 4" (102mm)  
 KM 53-380 straight 1x2 teeth  
 KM 53-382 half curved 1x2 teeth  
 KM 53-384 full curved 1x2 teeth

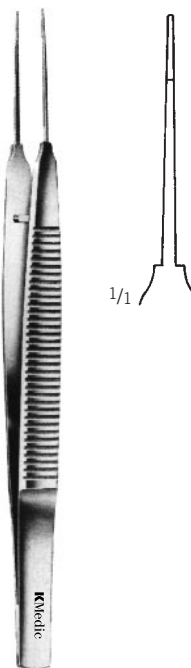


**CASTROVIEJO MICRO TYING FORCEPS**  
 KM 53-450 4" (102mm) straight 0.12mm 1x2 teeth with tying platform  
 KM 53-456 4" (102mm) straight 0.5mm 1x2 teeth with tying platform



**MICRO TYING FORCEPS**

KM 44-012  
4 3/8" (111mm)  
0.3mm tip



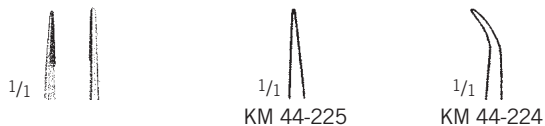
**PLATFORM TYING FORCEPS**

KM 44-014  
5 1/2" (140mm)  
0.7mm tip



**MICRO PLATFORM TYING FORCEPS** with round handle

<i>straight</i>	<i>curved</i>
KM 44-225 6" (152mm)	KM 44-224 6" (152mm)
KM 44-227 7" (178mm)	KM 44-226 7" (178mm)



**MICROSURGICAL INSTRUMENTS**



KM 39-450  
#3  
4 3/4" (121mm)  
narrow fine



KM 39-451  
#3C  
4 3/8" (111mm)  
narrow fine



KM 39-452  
#4  
4 3/8" (111mm)  
fine



KM 39-453  
#5  
4 3/8" (111mm)  
extra fine

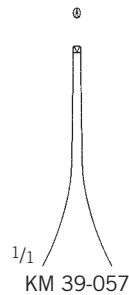
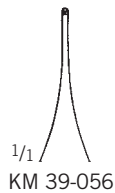
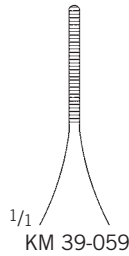
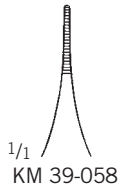
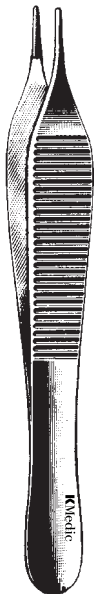


KM 39-455  
#6  
4 1/2" (114mm)  
angled pickup



KM 39-456  
#7  
4 1/2" (114mm)  
curved fine

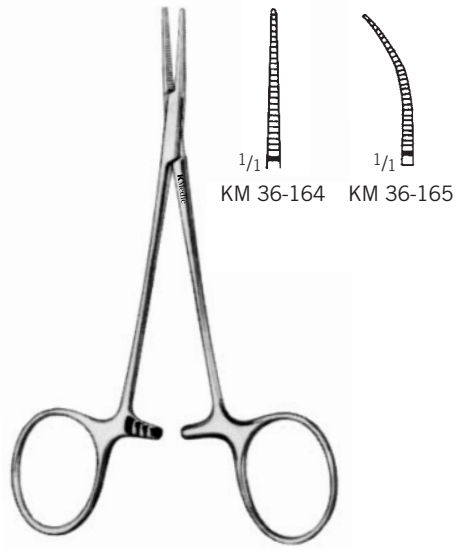
**SWISS JEWELERS STYLE FORCEPS**



**ADSON DRESSING FORCEPS** micro tip  
serrated 1x2 teeth  
KM 39-058 4 3/4" (121mm) KM 39-056 4 3/4" (121mm)  
KM 39-059 6" (152mm) KM 39-057 6" (152mm)



**MICRO CLAMP APPLICATOR**  
KM 44-028  
5 1/2" (140mm)  
for clamps KM 44-030



**MICRO MOSQUITO FORCEPS**  
 KM 36-164 5" (127mm) straight extremely fine tips  
 KM 36-165 5" (127mm) curved extremely fine tips



**RYDER MICRO NEEDLE HOLDER**  
 serrated carbide  
 KM 41-240 5" (127mm)      KM 41-246 8" (203mm)  
 KM 41-242 6" (152mm)      KM 41-248 9" (229mm)  
 KM 41-244 7" (178mm)



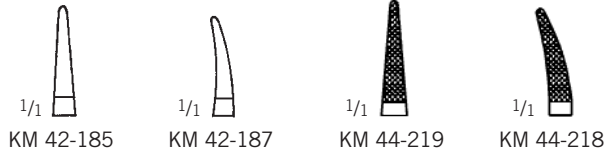
**BARRAQUER NEEDLE HOLDER**  
 KM 44-032  
 5" (127mm) curved with lock



**CASTROVIEJO MICRO NEEDLE HOLDER**  
 5 1/2" (140mm) extra delicate, smooth with lock  
 KM 42-196 straight      KM 42-195 straight  
 KM 42-198 curved      KM 42-197 curved



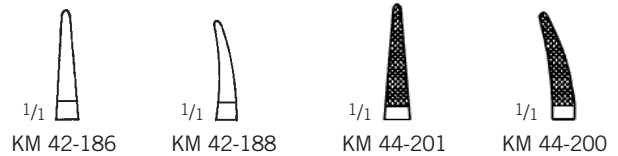
**CASTROVIEJO MICRO NEEDLE HOLDER**  
without lock



- |   |   |
|---|---|
| <p>5 1/2" (140mm)<br/>                 KM 42-185 straight, smooth<br/>                 KM 42-187 curved, smooth<br/>                 KM 44-219 straight, serrated<br/>                 KM 44-218 curved, serrated</p> | <p>5 1/2" (140mm) carbide<br/>                 KM 42-189 straight, smooth<br/>                 KM 42-191 curved, smooth<br/>                 KM 44-212 straight, serrated<br/>                 KM 44-210 curved, serrated</p> |
| <p>7" (178mm)<br/>                 KM 44-222 straight, smooth<br/>                 KM 44-220 curved, smooth<br/>                 KM 44-223 straight, serrated<br/>                 KM 44-221 curved, serrated</p>     | <p>7" (178mm) carbide<br/>                 KM 44-217 straight, smooth<br/>                 KM 44-216 curved, smooth<br/>                 KM 44-213 straight, serrated<br/>                 KM 44-211 curved, serrated</p>     |



**CASTROVIEJO MICRO NEEDLE HOLDER**  
with lock

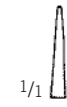


- |   |   |
|---|---|
| <p>5 1/2" (140mm)<br/>                 KM 42-186 straight, smooth<br/>                 KM 42-188 curved, smooth<br/>                 KM 44-201 straight, serrated<br/>                 KM 44-200 curved, serrated</p> | <p>5 1/2" (140mm) carbide<br/>                 KM 42-190 straight, smooth<br/>                 KM 42-192 curved, smooth<br/>                 KM 44-208 straight, serrated<br/>                 KM 44-206 curved, serrated</p> |
| <p>7" (178mm)<br/>                 KM 44-204 straight, smooth<br/>                 KM 44-202 curved, smooth<br/>                 KM 44-205 straight, serrated<br/>                 KM 44-203 curved, serrated</p>     | <p>7" (178mm) carbide<br/>                 KM 44-215 straight, smooth<br/>                 KM 44-214 curved, smooth<br/>                 KM 44-209 straight, serrated<br/>                 KM 44-207 curved, serrated</p>     |





**BARRAQUER NEEDLE HOLDER**  
without lock, round handle



1/1  
KM 44-151



1/1  
KM 44-137



1/1  
KM 44-175



1/1  
KM 44-171

*delicate*  
5½" (140mm)  
KM 44-151 straight, smooth  
KM 44-137 curved, smooth

7" (178mm)  
KM 44-153 straight, smooth  
KM 44-139 curved, smooth

*carbide, delicate*  
5½" (140mm)  
KM 44-152 straight, smooth  
KM 44-138 curved, smooth  
KM 44-127 straight, serrated  
KM 44-125 curved, serrated

7" (178mm)  
KM 44-154 straight, smooth  
KM 44-150 curved, smooth  
KM 44-128 straight, serrated  
KM 44-126 curved, serrated

*micro*  
5½" (140mm)  
KM 44-175 straight, smooth  
KM 44-171 curved, smooth

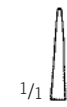
7" (178mm)  
KM 44-177 straight, smooth  
KM 44-173 curved, smooth

*carbide, micro*  
5½" (140mm)  
KM 44-176 straight, smooth  
KM 44-172 curved, smooth  
KM 44-161 straight, serrated  
KM 44-159 curved, serrated

7" (178mm)  
KM 44-178 straight, smooth  
KM 44-174 curved, smooth  
KM 44-162 straight, serrated  
KM 44-160 curved, serrated



**BARRAQUER NEEDLE HOLDER**  
with lock, round handle



1/1  
KM 44-133



1/1  
KM 44-129



1/1  
KM 44-167



1/1  
KM 44-163

*delicate*  
5½" (140mm)  
KM 44-133 straight, smooth  
KM 44-129 curved, smooth

7" (178mm)  
KM 44-135 straight, smooth  
KM 44-131 curved, smooth

*carbide, delicate*  
5½" (140mm)  
KM 44-134 straight, smooth  
KM 44-130 curved, smooth  
KM 44-123 straight, serrated  
KM 44-121 curved, serrated

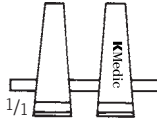
7" (178mm)  
KM 44-136 straight, smooth  
KM 44-132 curved, smooth  
KM 44-124 straight, serrated  
KM 44-122 curved, serrated

*micro*  
5½" (140mm)  
KM 44-167 straight, smooth  
KM 44-163 curved, smooth

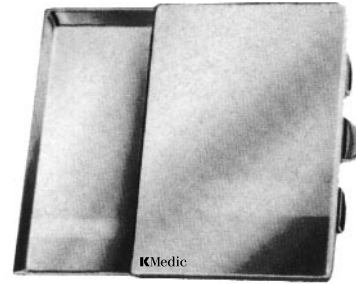
7" (178mm)  
KM 44-169 straight, smooth  
KM 44-165 curved, smooth

*carbide, micro*  
5½" (140mm)  
KM 44-168 straight, smooth  
KM 44-164 curved, smooth  
KM 44-157 straight, serrated  
KM 44-155 curved, serrated

7" (178mm)  
KM 44-170 straight, smooth  
KM 44-166 curved, smooth  
KM 44-158 straight, serrated  
KM 44-156 curved, serrated

**MICROSURGICAL INSTRUMENTS****APPROXIMATION CLAMP**

KM 44-030  
15mm  
without suture  
holding frame

**CLAMP BOX**

KM 44-031  
2 $\frac{3}{4}$ " x 1 $\frac{3}{4}$ " x  $\frac{1}{4}$ "  
(70mm x 44mm x 6mm)  
for micro clamps KM 44-030

**STERILIZATION AND INSTRUMENT CASE**

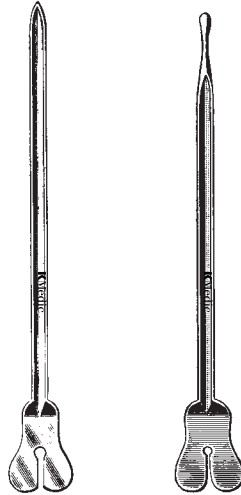
KM 98-137  
7" x 2 $\frac{3}{4}$ " x 1" (178mm x 70mm x 25mm)  
case only for three piece micro set  
(not pictured)

KM 98-135  
9" x 5" x 1 $\frac{1}{4}$ " (229mm x 127mm x 32mm)  
case only for eight piece micro set

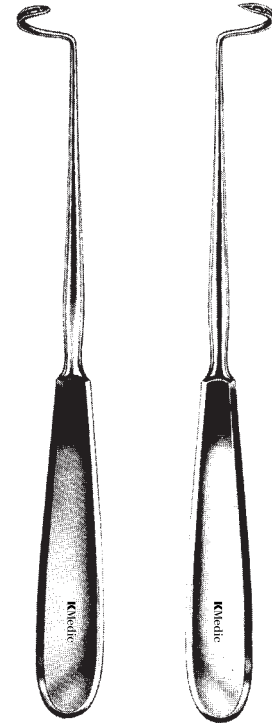
KM 98-136  
8 $\frac{3}{4}$ " x 4 $\frac{3}{4}$ " x  $\frac{3}{4}$ " (222mm x 121mm x 19mm)  
rack only for eight piece micro set  
(not pictured)



**PROBE WITH EYE** malleable stainless  
 KM 42-608 4½" (114mm)  
 KM 42-610 5" (127mm)  
 KM 42-612 5½" (140mm)  
 KM 42-614 6" (152mm)  
 KM 42-616 8" (203mm)  
 KM 42-618 10" (254mm)  
 KM 42-620 12" (305mm)



**GROOVED DIRECTORS**  
*with tongue tie*  
 KM 42-646 4½" (114mm)  
 KM 42-647 5" (127mm)  
 KM 42-648 5½" (140mm)  
 KM 42-649 6" (152mm)  
*with probe and tongue tie*  
 KM 42-654 5" (127mm)  
 KM 42-655 5½" (140mm)  
 KM 42-656 6" (152mm)



**DESCHAMPS LIGATURE CARRIER**  
 8" (203mm)  
 KM 42-558 blunt left  
 KM 42-560 blunt right  
 KM 42-562 sharp left  
 KM 42-564 sharp right



**DIX SPUD AND NEEDLE**  
 KM 54-272  
 in reversible screw handle



1/16  
**NEEDLE**  
 KM 54-280  
 5" (127mm)  
 2 x 5mm blade



1/16  
**DAVIS**  
 KM 54-282  
 4¾" (121mm)  
 0.8mm blade

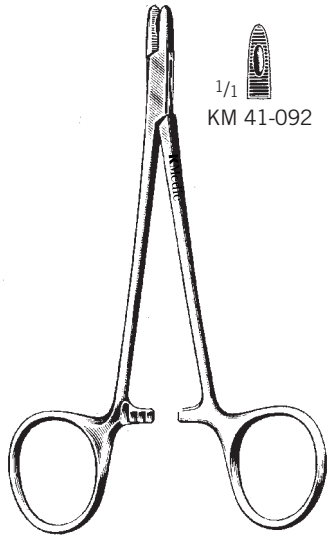


1/16  
**ELLIS**  
 KM 54-284  
 4½" (114mm) curved  
 1.2mm blade

**FOREIGN BODY NEEDLES AND SPUDS**

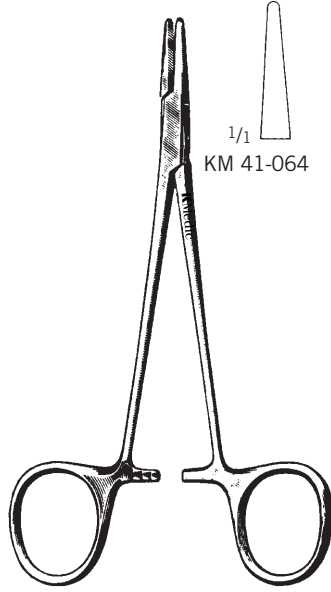
**NEEDLE HOLDERS**

Our carbide needle holders have TC inserts firmly bonded to the inside of both jaws. We guarantee them for three years. The surface profiles of the inserts have been precision milled to provide the surgeon with a firm, non-slip grip on the needle. Because the carbide is harder than the steel of the needles, carbide needle holders last much longer than ordinary ones. The ring handles are gold plated for easy identification.



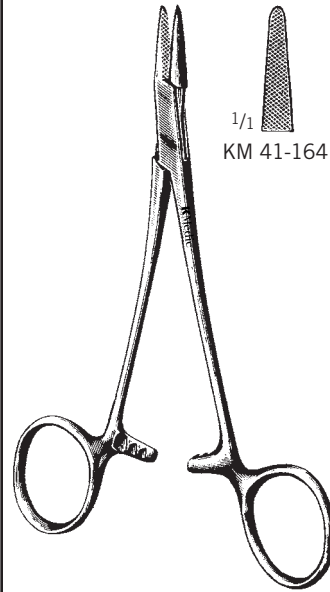
1/1  
KM 41-092    KM 41-094

**DERF NEEDLE HOLDER**  
KM 41-092    KM 41-094  
4 3/4" (121mm)    4 3/4" (121mm)  
horizontal    carbide  
serrations    cross serrations



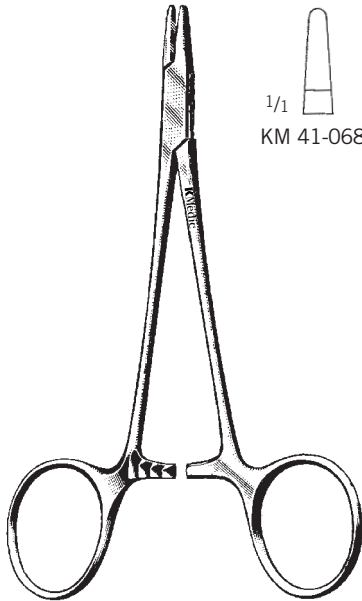
1/1    1/1  
KM 41-064    KM 41-066

**HALSEY NEEDLE HOLDER**  
KM 41-064 5" (127mm) smooth  
KM 41-065 5" (127mm) smooth carbide  
KM 41-066 5 1/4" (133mm) serrated  
KM 41-067 5" (127mm) serrated carbide



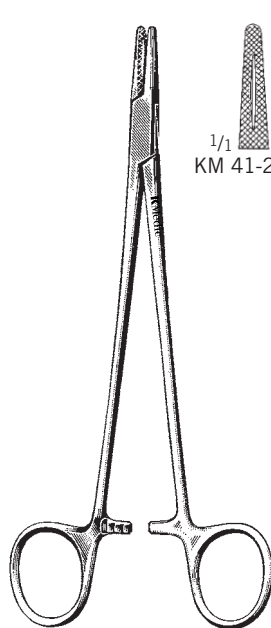
1/1    1/1  
KM 41-164    KM 41-166

**HEGAR BAUMGARTNER NEEDLE HOLDER**  
KM 41-162 5" (127mm) serrated  
KM 41-164 5 3/4" (146mm) serrated  
KM 41-166 5 1/2" (140mm) serrated carbide



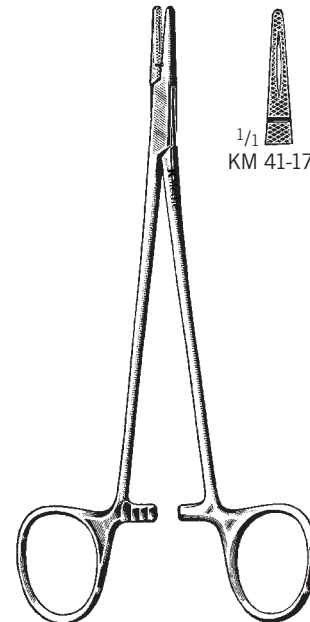
1/1  
KM 41-068

**WEBSTER NEEDLE HOLDER** smooth  
KM 41-068    KM 41-070  
5" (127mm)    5" (127mm)  
carbide



1/1    1/1  
KM 41-270    KM 41-302

**MAYO HEGAR NEEDLE HOLDER** serrated  
KM 41-270 5 1/4" (133mm)  
KM 41-272 6" (152mm)  
carbide  
KM 41-300 5" (127mm)  
KM 41-302 6" (152mm)  
lefthanded  
KM 41-302L 6" (152mm)



1/1    1/1  
KM 41-170    KM 41-174

**CRILE-WOOD (DEBAKEY) NEEDLE HOLDER** serrated  
KM 41-170    KM 41-174  
6" (152mm)    6" (152mm)  
carbide



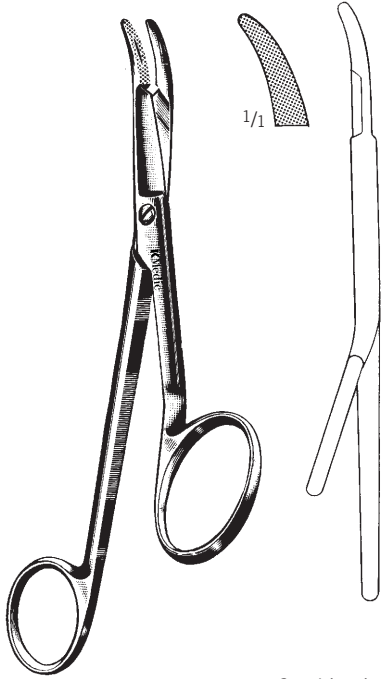
**NIEVERT NEEDLE HOLDER**  
 smooth, one offset finger ring  
 KM 41-106 5" (127mm)  
 KM 41-108 5" (127mm) carbide



**RYDER NEEDLE HOLDER** serrated carbide  
 KM 41-257 5" (127mm)  
 KM 41-264 6" (152mm)

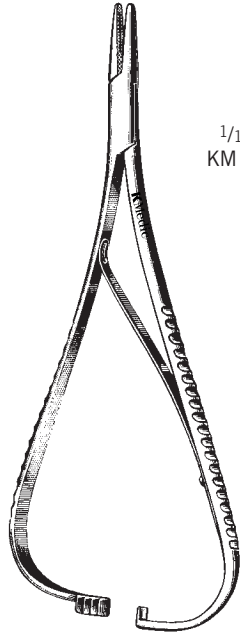


**BROWN NEEDLE HOLDER** fine serrations  
 KM 41-130 5 1/4" (133mm)  
 convex jaws



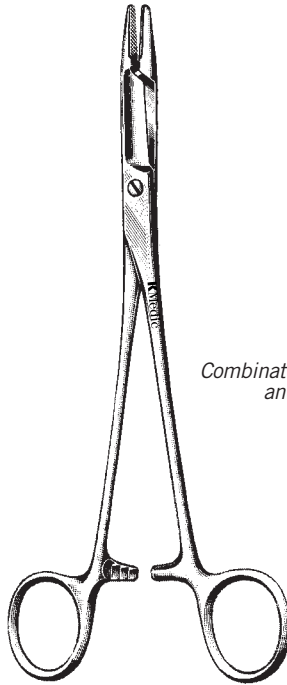
**GILLIES NEEDLE HOLDER**  
 KM 41-333 6 1/2" (165mm) curved  
 one fenestrated jaw  
 one angled finger ring

# NEEDLE HOLDERS



1/1  
KM 41-198

**MATHIEU NEEDLE HOLDER** serrated  
KM 41-198 5 1/2" (140mm)  
KM 41-200 5 1/2" (140mm)  
carbide



*Combination needle holder  
and suture scissors.*

1/1 KM 41-424  
KM 41-440  
1/1 KM 41-428  
KM 41-448

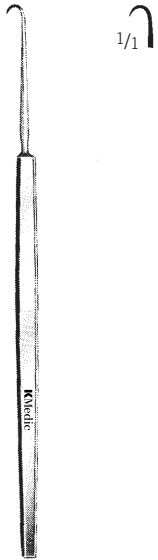
- KM 41-424 4 3/4" (121mm) delicate serrated\*
- KM 41-426 4 3/4" (121mm) delicate smooth\*
- KM 41-428 5 1/2" (140mm) serrated
- KM 41-432 6 1/2" (165mm) serrated

- carbide*
- KM 41-440 4 3/4" (121mm) delicate serrated\*
  - KM 41-446 4 3/4" (121mm) delicate smooth\*
  - KM 41-448 5 1/2" (140mm) serrated
  - KM 41-452 6 1/2" (165mm) serrated

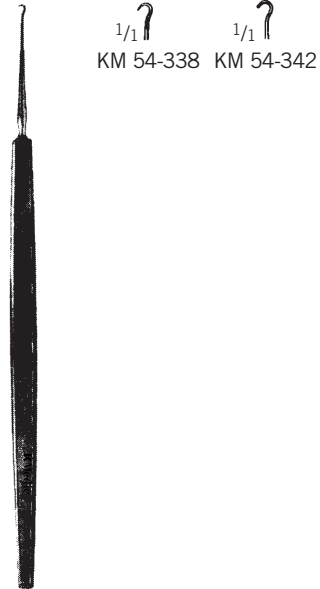
\*For suture sizes 5-0, 6-0, 7-0 only.

**OLSEN-HEGAR NEEDLE HOLDER**

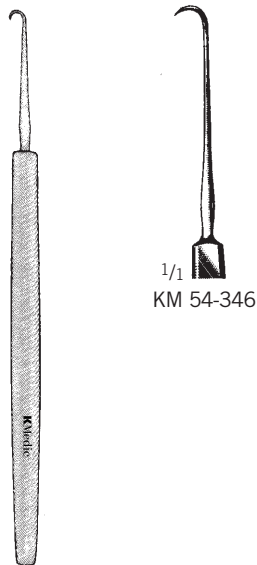
## NOTES



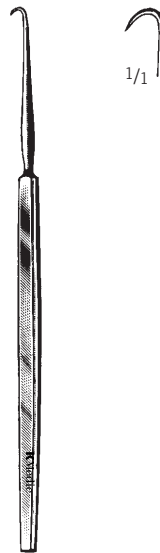
**KMEDIC SKIN HOOK**  
 KM 52-055  
 4 3/4" (121mm)  
 one sharp prong  
 2mm diameter



**TYRELL HOOK** 5" (127mm)  
 KM 54-338      KM 54-342  
 one sharp prong      one blunt prong  
 1.5mm diameter      1.5mm diameter

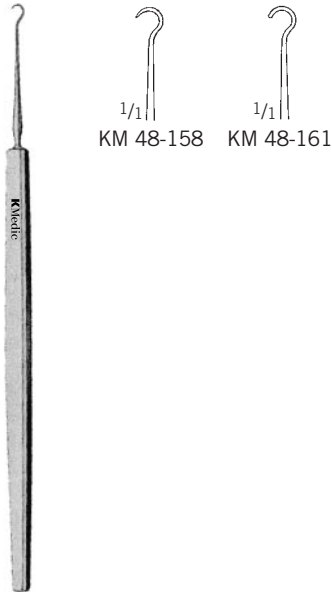
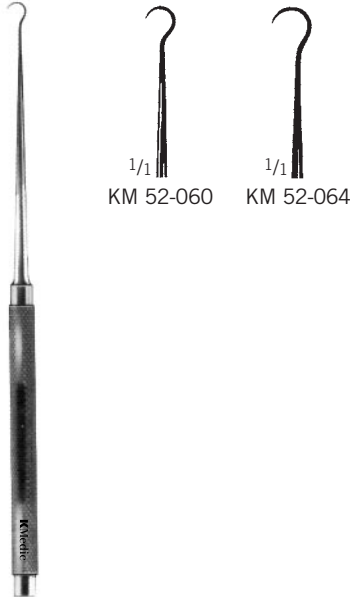
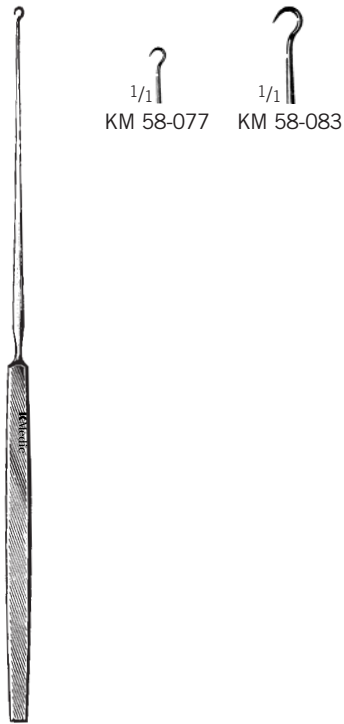
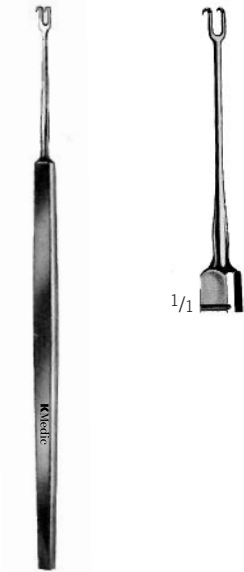
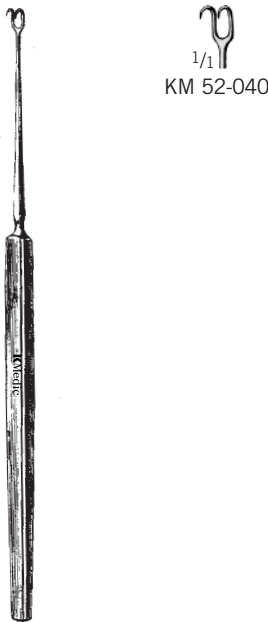
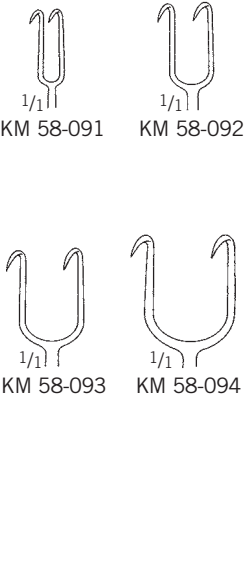


**WIENER SKIN HOOK** 5" (127mm)  
 KM 54-346      KM 54-348  
 one sharp prong      one blunt prong  
 3.5mm diameter      3.5mm diameter

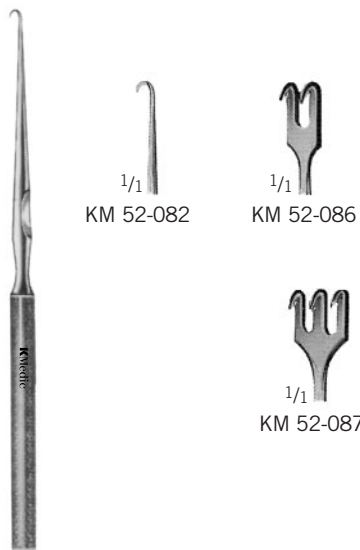


**COTTLE SKIN HOOK**  
 KM 52-050  
 5 1/2" (140mm)  
 one sharp prong  
 large deep curve  
 4mm diameter

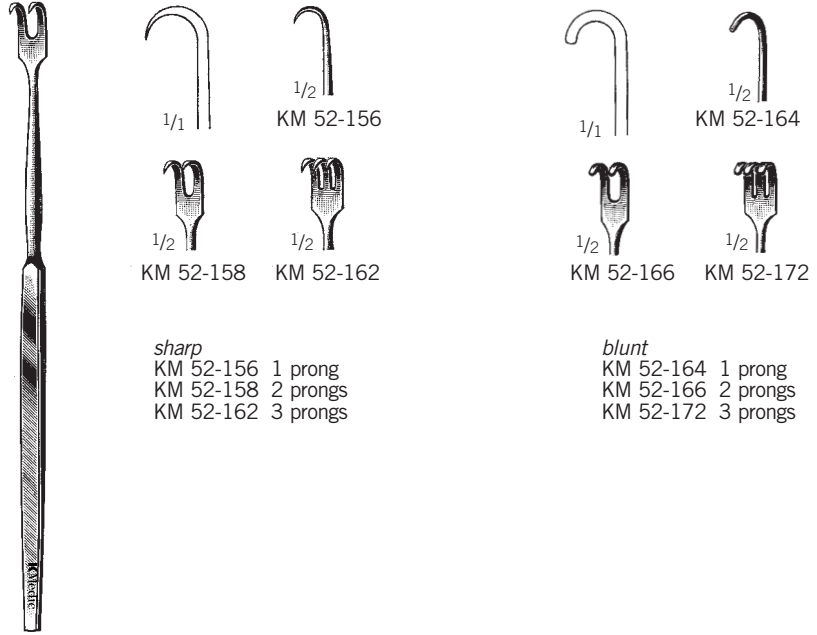
**SKIN HOOKS**

 <p><b>FRAZIER HOOK</b> 5" (127mm)            KM 48-158      KM 48-161            one sharp prong      one blunt prong            2.5mm diameter      2.5mm diameter</p>	 <p><b>KLEINERT-KUTZ HOOK</b> 6" (152mm)            KM 52-060 3mm diameter            KM 52-064 5mm diameter            KM 52-068 7mm diameter</p>	 <p><b>GILLIES HOOK</b> 7" (178mm)            KM 58-077      KM 58-083            2mm diameter      3mm diameter</p>
 <p><b>GUTHRIE HOOK</b>            KM 54-350            5" (127mm)            2 sharp prongs            2.5mm wide</p>	 <p><b>FREER SKIN HOOK</b> 6" (152mm)            KM 52-040      KM 52-042            2 sharp prongs      2 blunt prongs            2.5mm wide      2.5mm wide</p>	 <p><b>JOSEPH HOOK</b> 6 3/4" (159mm) sharp            KM 58-088 1 prong            KM 58-091 2 prongs      2mm wide            KM 58-092 2 prongs      5mm wide            KM 58-093 2 prongs      7mm wide            KM 58-094 2 prongs      10mm wide</p>





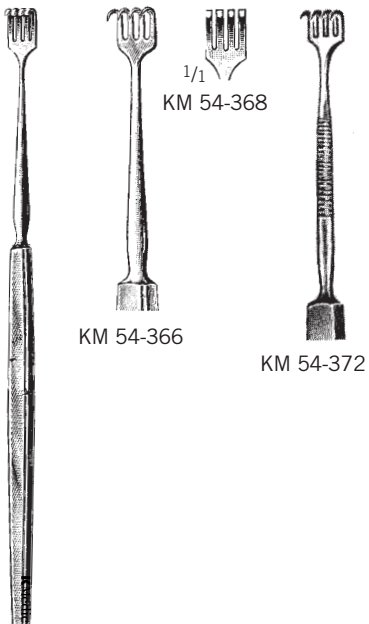
**LAHEY RETRACTOR** 4 $\frac{3}{8}$ " (121mm)  
 KM 52-082 1 sharp prong  
 KM 52-086 2 sharp prongs  
 KM 52-087 3 sharp prongs



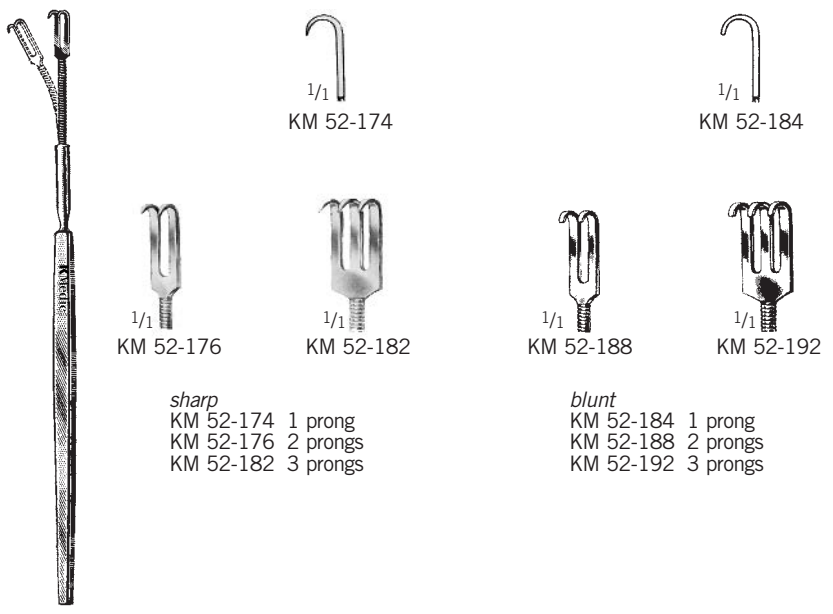
**RIGID RAKE RETRACTOR** 6 $\frac{1}{2}$ " (165mm)

*sharp*  
 KM 52-156 1 prong  
 KM 52-158 2 prongs  
 KM 52-162 3 prongs

*blunt*  
 KM 52-164 1 prong  
 KM 52-166 2 prongs  
 KM 52-172 3 prongs



**BLAIR (ROLLET) RETRACTOR** 5 $\frac{1}{2}$ " (140mm)  
 6mm wide  
 KM 54-366 4 sharp prongs, rigid  
 KM 54-368 4 blunt prongs, rigid  
 KM 54-372 4 sharp prongs, flexible




**FLEXIBLE RAKE RETRACTOR** 6 $\frac{1}{4}$ " (159mm)









*sharp*  
 KM 52-174 1 prong  
 KM 52-176 2 prongs  
 KM 52-182 3 prongs

*blunt*  
 KM 52-184 1 prong  
 KM 52-188 2 prongs  
 KM 52-192 3 prongs


**FINGER RETRACTORS**





**VOLKMAN FINGER RETRACTOR** 4½" (114mm)

 <sup>1/2</sup> KM 52-198	 <sup>1/2</sup> KM 52-202	 <sup>1/2</sup> KM 52-208	 <sup>1/2</sup> KM 52-212
 <sup>1/2</sup> KM 52-204	 <sup>1/2</sup> KM 52-206	 <sup>1/2</sup> KM 52-214	 <sup>1/2</sup> KM 52-216


<p><i>sharp</i></p> <p>KM 52-198 2 prongs                  KM 52-202 3 prongs                  KM 52-204 4 prongs                  KM 52-206 6 prongs</p>	<p><i>blunt</i></p> <p>KM 52-208 2 prongs                  KM 52-212 3 prongs                  KM 52-214 4 prongs                  KM 52-216 6 prongs</p>
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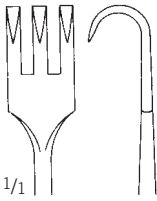
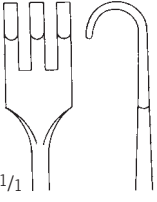
**MATHIEU RETRACTOR** 6¼" (159mm)  
 9mm width x 7mm depth prongs  
 and 7mm width x 18mm depth blade

 <sup>1/1</sup> KM 52-092	 <sup>1/1</sup> KM 52-093
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<p>3 sharp prongs                  double ended</p>	<p>3 blunt prongs                  double ended</p>
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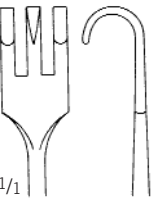
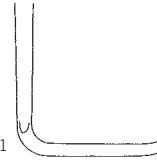
**SENN RETRACTOR** 3 prongs

 <sup>1/1</sup> KM 52-088	 <sup>1/1</sup> KM 52-090
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<p>KM 52-088                  6¼" (159mm)                  sharp</p>	<p>KM 52-090                  6¼" (159mm)                  blunt</p>
--	--




**SAFETY SENN RETRACTOR**



 <sup>1/1</sup> KM 52-089	 <sup>1/1</sup>
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<p>KM 52-089                  6¼" (159mm)                  sharp middle prong                  blunt end prongs</p>
---

*Fine cross serrations help prevent slippage.*



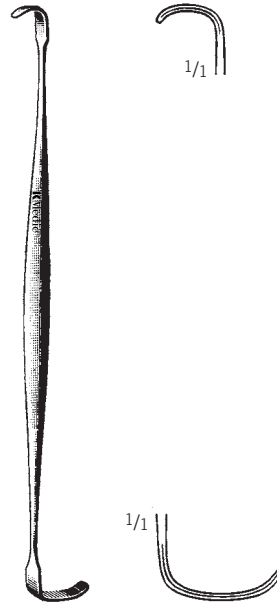
**RAGNELL-LINDE RETRACTOR**

 <sup>1/1</sup>	
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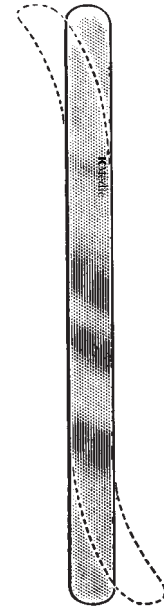
<p>KM 69-982                  5¼" (133mm)                  double ended with serrations                  4mm x 8mm blade                  and 6mm x 15mm blade</p>
--



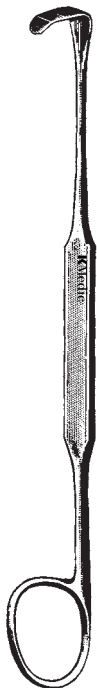
**DAVIS RETRACTOR**  
 KM 52-076  
 6" (152mm) double ended  
 6mm x 17mm blade  
 and 9mm x 20mm blade



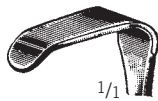
**RAGNELL RETRACTOR**  
 KM 52-094  
 5 3/4" (146mm) double ended  
 3mm x 8mm blade  
 and 5mm x 15mm blade



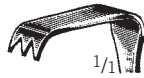
**RIBBON RETRACTOR** malleable  
 KM 51-752 6" x 1/2" (152mm x 13mm)  
 KM 51-755 7 1/2" x 1" (191mm x 25mm)



**MEYERDING FINGER RETRACTOR** 7" (178mm)



KM 52-116  
 #1  
 7mm width x  
 18mm depth blade



KM 52-118  
 #2  
 6mm width x  
 17mm depth blade  
 with teeth



KM 52-122  
 #3  
 4mm width x  
 8mm depth blade  
 with teeth



KM 52-124  
 #4  
 4mm width x  
 10mm depth blade



KM 52-128  
 #5  
 4mm width x  
 7mm depth blade



KM 52-130  
 #6  
 8mm width x  
 7mm depth sharp  
 prongs



**DESMARRES RETRACTOR** 5 1/2" (140mm)  
 KM 54-358 #1 11mm  
 KM 54-360 #2 13mm  
 KM 54-362 #3 15mm  
 KM 54-364 #4 17mm



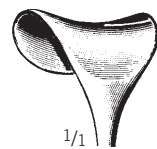
KM 54-358



KM 54-360



KM 54-362



KM 54-364

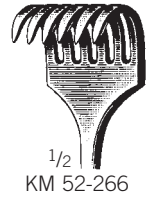
**RETRACTORS**



**CRILE RETRACTOR**  
 KM 51-468  
 4<sup>3</sup>/<sub>8</sub>" (111mm)  
 double ended

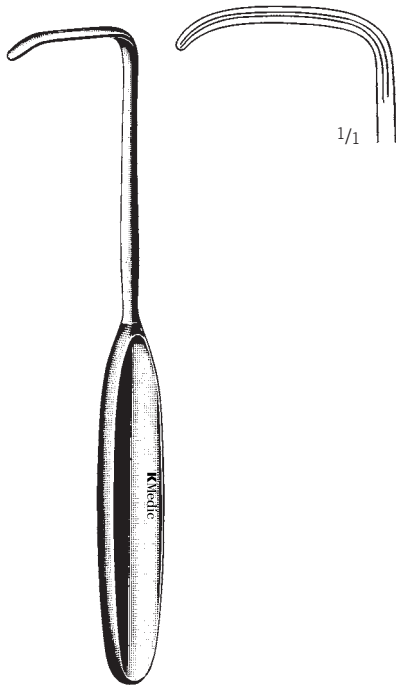


**VOLKMAN RETRACTOR** 8<sup>1</sup>/<sub>2</sub>" (216mm) with ring handle

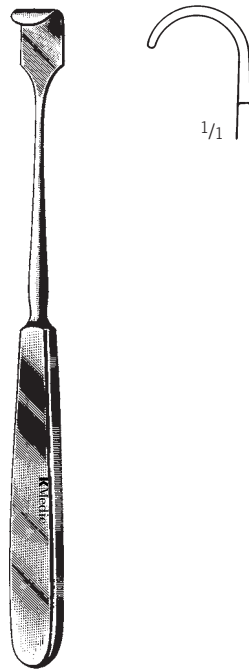


*sharp*  
 KM 52-254 1 prong 10mm depth  
 KM 52-258 2 prongs 8mm width X 10mm depth  
 KM 52-262 3 prongs 13mm width X 10mm depth  
 KM 52-264 4 prongs 18mm width X 10mm depth  
 KM 52-266 6 prongs 28mm width X 10mm depth

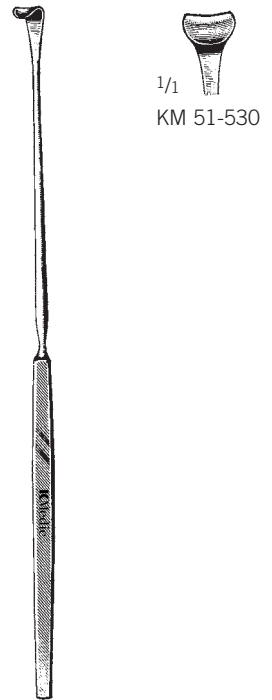
*blunt*  
 KM 52-268 2 prongs 8mm width X 10mm depth  
 KM 52-272 3 prongs 13mm width X 10mm depth  
 KM 52-274 4 prongs 18mm width X 10mm depth  
 KM 52-276 6 prongs 28mm width X 10mm depth



**LAHEY RETRACTOR**  
 KM 51-528  
 7<sup>3</sup>/<sub>4</sub>" (195mm)



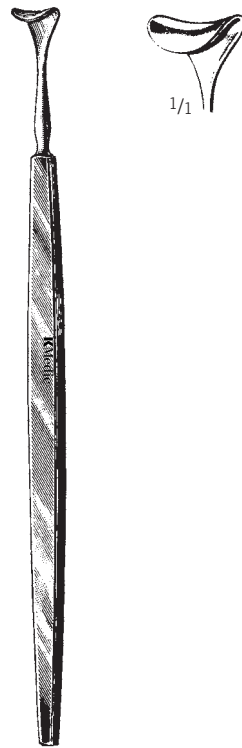
**LITTLE RETRACTOR**  
 KM 51-520  
 7<sup>3</sup>/<sub>4</sub>" (195mm)



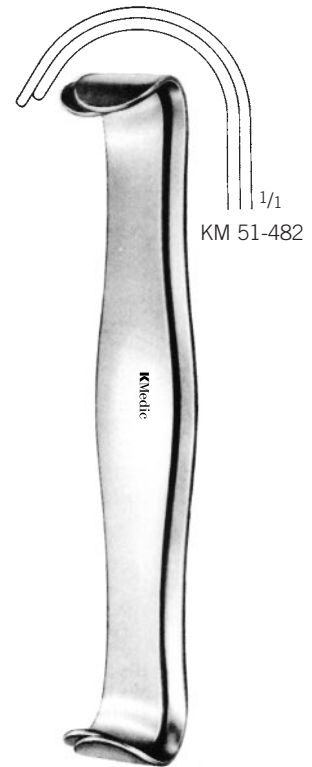
**LOVE NERVE RETRACTOR** 8<sup>1</sup>/<sub>2</sub>" (216mm)  
 KM 51-530 7mm blade straight  
 KM 51-532 7mm blade angled 45 degrees  
 KM 51-534 7mm blade angled 90 degrees



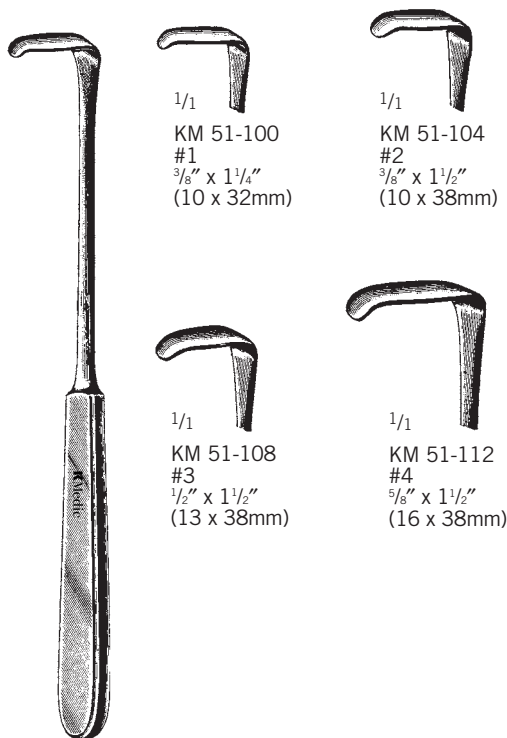
**CUSHING VEIN RETRACTOR**  
KM 51-521  
9" (229mm) fenestrated handle



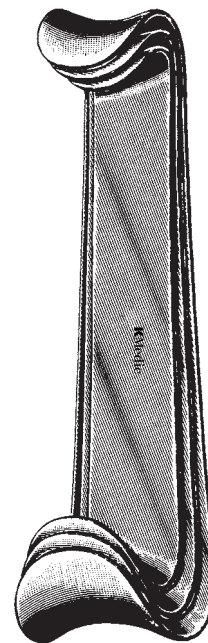
**CUSHING VEIN RETRACTOR**  
KM 51-523  
8" (203mm) 10mm blade



**PARKER RETRACTOR**  
double ended, set of two  
KM 51-480 5" (127mm) set  
KM 51-482 7 1/4" (184mm) set

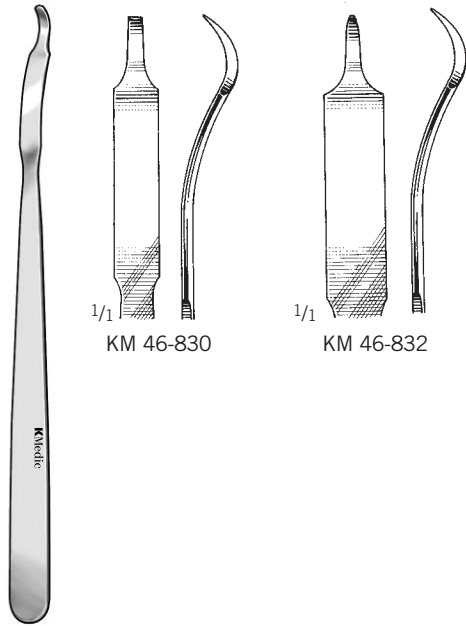


**LANGENBECK RETRACTOR** 8" (203mm)

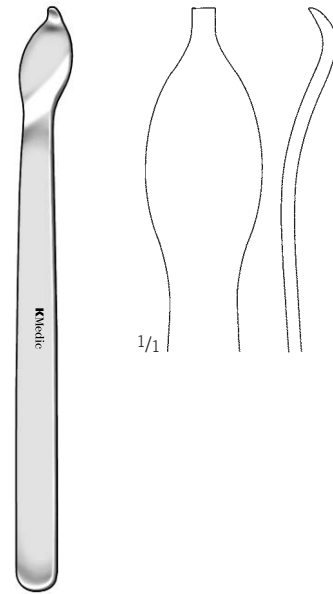


**ROUX RETRACTOR**  
KM 51-498 5 1/4" (133mm) small 3/4" x 1" (19mm x 25mm)  
KM 51-500 5 3/4" (146mm) medium 7/8" x 1 3/8" (22mm x 35mm)  
KM 51-502 6 5/8" (173mm) large 1" x 1 5/8" (25mm x 41mm)

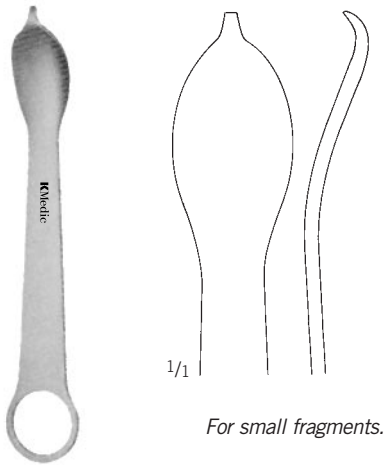
**RETRACTORS**



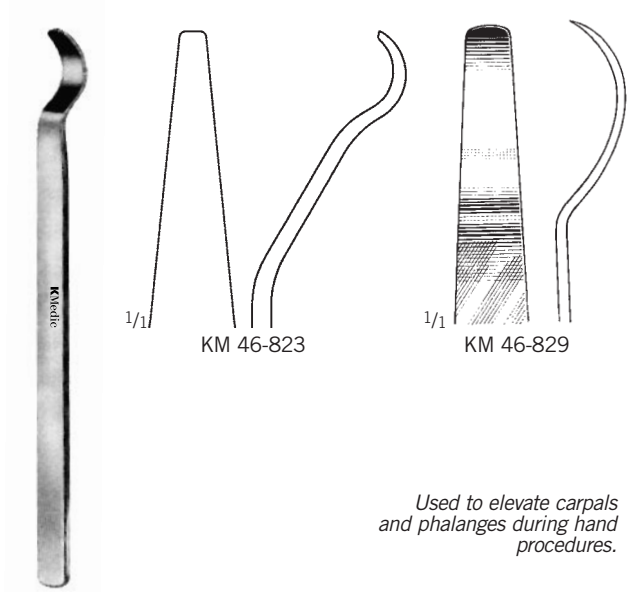
**MINI HOHMANN RETRACTOR**  
 KM 46-830 6½" (165mm) 6mm blade width  
 KM 46-832 6½" (165mm) 8mm blade width



**HOHMANN RETRACTOR**  
 KM 46-827 6" (152mm) broad tip 15mm blade width

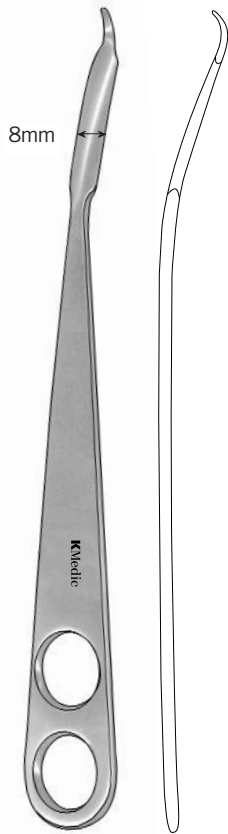


**HOHMANN RETRACTOR**  
 KM 46-826 4¾" (121mm) with finger ring broad tip 16mm blade width

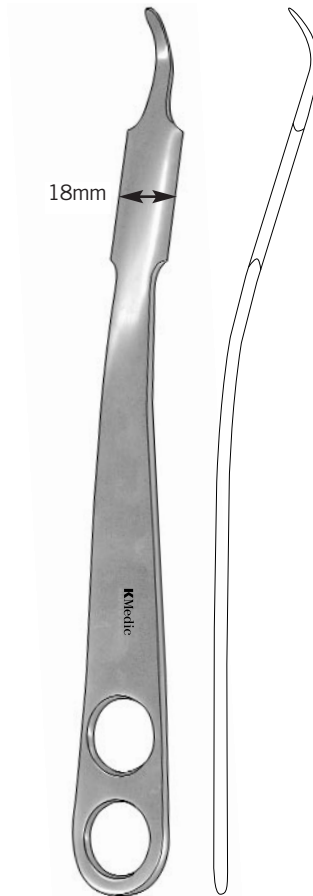


*Used to elevate carpals and phalanges during hand procedures.*

**HAYES HAND RETRACTOR**  
 KM 46-823 6¼" (159mm) 3mm width distal tip  
 KM 46-829 6" (152mm) 6mm width distal tip



**HOHMANN RETRACTOR**  
 KM 46-858                      KM 46-836  
 8½" (216mm)                  9" (229mm)  
 8mm blade width              10mm blade width



**HOHMANN RETRACTOR**  
 KM 46-838  
 9" (229mm)  
 18mm blade width



**HOHMANN RETRACTOR**  
 KM 46-848  
 11" (279mm)  
 22mm blade width  
 three holes

**VICKERS RETRACTORS**

The new KMedic Vickers Retractors are designed to provide excellent visibility during hand and wrist procedures. Each of the retractors is self-retaining and automatically expands the wound site.

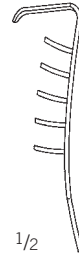
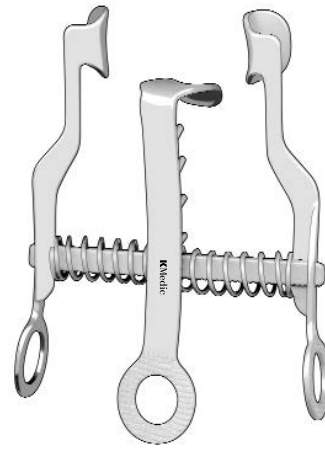


Ideal for retracting wounds on either the front, back or sides of fingers or thumb.

**VICKERS FINGER RETRACTOR**

KM 52-425  
 2" x 3/4" x 1 1/4"  
 (51mm x 19mm x 32mm)  
 2 x 2 blunt hooks  
 maximum opening: 19mm

Useful for trigger finger and small wound retraction. The curved smooth blades hold fat tissue away from tendon sheath.



1/2

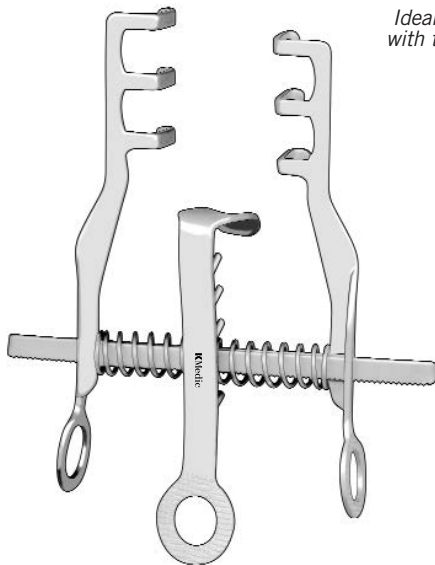


1/1

Center blade for low profile retractors.

**VICKERS LOW PROFILE SMALL WOUND RETRACTOR**

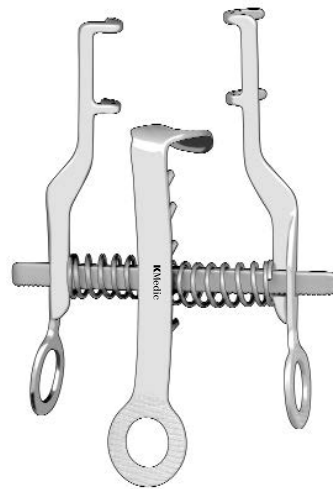
KM 52-426  
 2 1/2" x 3" (64mm x 76mm)  
 10mm depth x 12mm height curved smooth blades  
 maximum opening: 30mm  
 center blade: 10mm x 16mm



Ideal for tendon transfers with three blunt prongs to secure placement.

**VICKERS LOW PROFILE HAND AND FOREARM RETRACTOR**

KM 52-427  
 3" x 3 3/4" (76mm x 96mm)  
 3 x 3 blunt prongs  
 11mm depth x 25mm height  
 maximum opening: 35mm  
 center blade: 10mm x 16mm

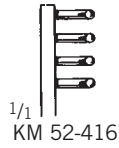
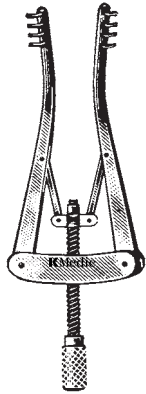


Useful for hand and carpal tunnel procedures with two blunt prongs to secure placement.

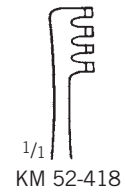
**VICKERS LOW PROFILE UNIVERSAL RETRACTOR**

KM 52-428  
 2 1/2" x 3" (64mm x 76mm)  
 2 x 2 blunt prongs  
 8mm depth x 17mm height  
 maximum opening: 30mm  
 center blade: 10mm x 16mm

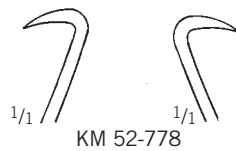
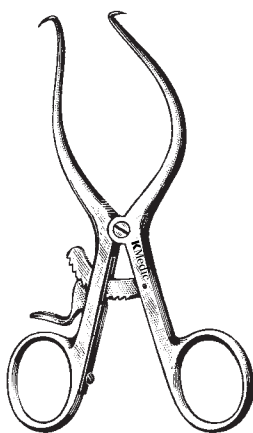




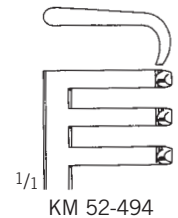
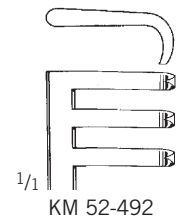
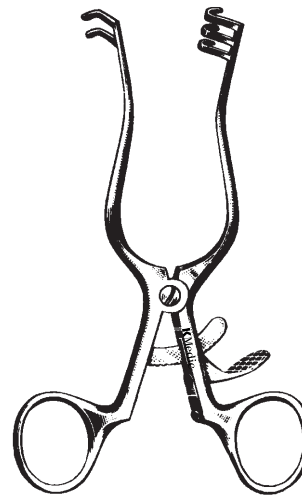
**ALM RETRACTOR** 4 blunt prongs  
 KM 52-414 KM 52-416  
 2 3/4" (70mm) 4" (102mm)  
 delicate delicate  
 4mm depth x 5mm depth x  
 8mm height 9mm height



**SELF-RETAINING RETRACTOR (HEISS)**  
 KM 52-417 KM 52-418  
 4" (102mm) 4" (102mm)  
 delicate delicate  
 4 sharp prongs 4 blunt prongs  
 3mm depth x 3mm depth x  
 8mm height 8mm height

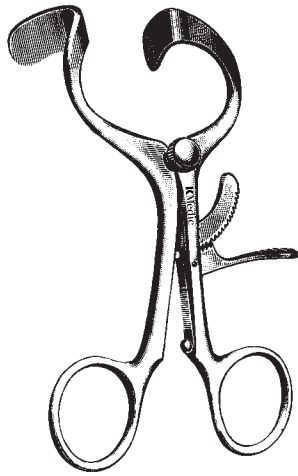


**GELPI RETRACTOR**  
*sharp points*  
 KM 52-776 3 1/2" (89mm)  
 KM 52-778 4 1/2" (114mm)  
 KM 52-780 5 1/2" (140mm)  
 KM 52-768 7 1/2" (191mm)

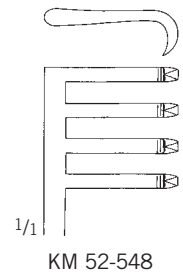


**WEITLANER RETRACTOR**  
 KM 52-492 KM 52-494  
 4" (102mm) 4" (102mm)  
 sharp blunt  
 2x3 prongs 2x3 prongs  
 13mm depth x 13mm depth x  
 13mm height 13mm height

**SELF-RETAINING RETRACTORS**



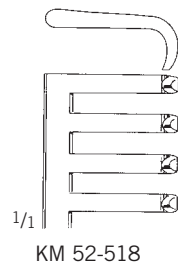
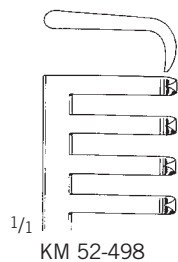
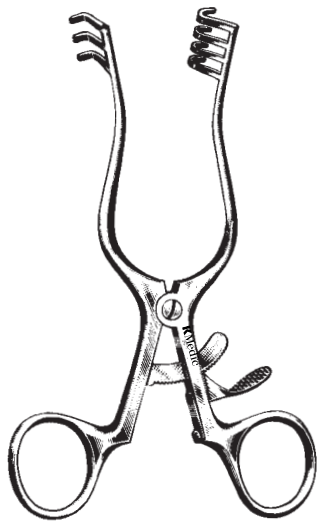
**MALTZ-SEEBURGER RETRACTOR**  
 KM 58-240  
 4½" (114mm)



**SCALP CONTOUR RETRACTOR**  
 KM 52-548  
 5½" (140mm)  
 3x4 sharp prongs  
 15mm depth x  
 20mm height

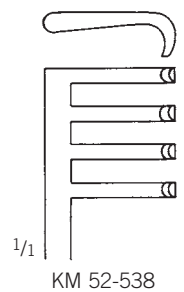
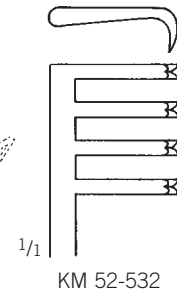
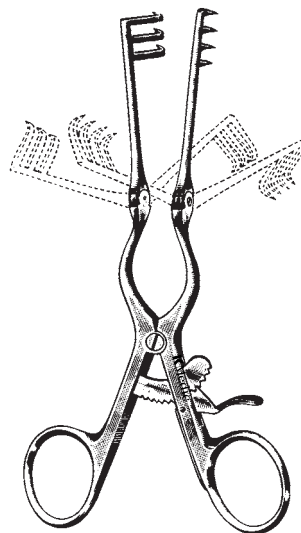
KM 52-546  
 5½" (140mm)  
 3x4 blunt prongs  
 15mm depth x  
 20mm height

*Useful in hand procedures because handle is not obstructive.*



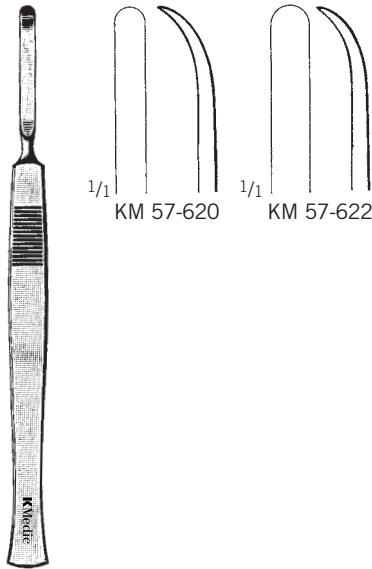
**WEITLANER RETRACTOR**  
*sharp*  
 3x4 prongs  
 KM 52-498 5½" (140mm) 14mm depth x 18mm height  
 KM 52-502 6½" (165mm) 15mm depth x 20mm height

*blunt*  
 3x4 prongs  
 KM 52-518 5½" (140mm) 14mm depth x 18mm height  
 KM 52-522 6½" (165mm) 15mm depth x 20mm height

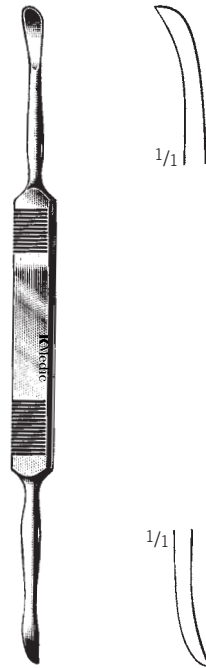


**BECKMAN-WEITLANER RETRACTOR** hinged blades  
*sharp*  
 3x4 prongs  
 KM 52-530 5½" (140mm) 15mm depth x 20mm height  
 KM 52-532 6½" (165mm) 15mm depth x 20mm height

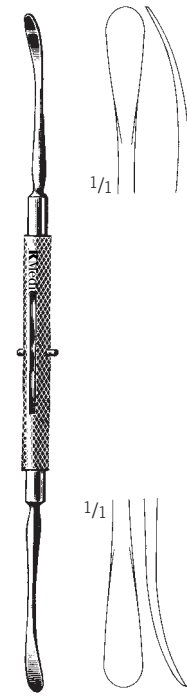
*blunt*  
 3x4 prongs  
 KM 52-536 5½" (140mm) 15mm depth x 20mm height  
 KM 52-538 6½" (165mm) 15mm depth x 20mm height



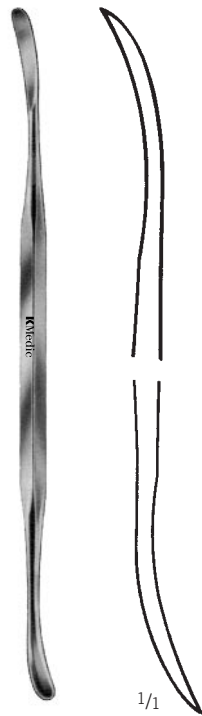
**MCKENTY ELEVATOR**  
 KM 57-620 5½" (140mm) semi-sharp 4mm  
 KM 57-622 5½" (140mm) semi-sharp 5mm



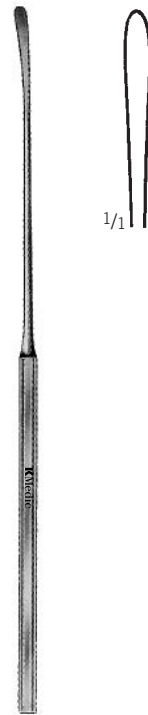
**OHL ELEVATOR**  
 KM 57-612 7" (178mm) double ended 6mm semi-sharp end and 5mm sharp end



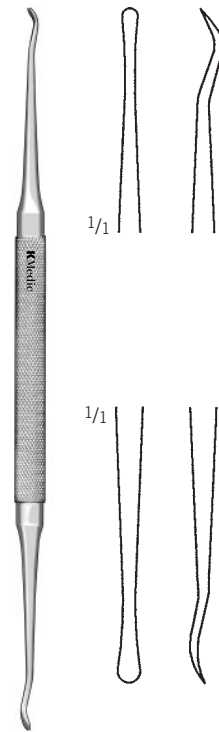
**FREER ELEVATOR**  
 KM 57-614 7½" (191mm) double ended 5mm sharp end and 5mm blunt end



**ALLERDYCE ELEVATOR AND DISSECTOR**  
 KM 57-616 7½" (191mm) double ended 8mm semi-sharp end and 8mm blunt end



**SACHS NERVE ELEVATOR**  
 KM 57-618 7½" (191mm) 3mm blunt



**KLEINERT KUTZ ELEVATOR AND DISSECTOR**  
 KM 57-615 7¾" (195mm) 2mm x 3mm sharp ends

# ELEVATORS

50



**PENFIELD ELEVATORS**  
 KM 57-624  
 style #1  
 7" (178mm)  
 double ended



KM 57-626  
 style #2  
 7 3/4" (195mm)  
 double ended



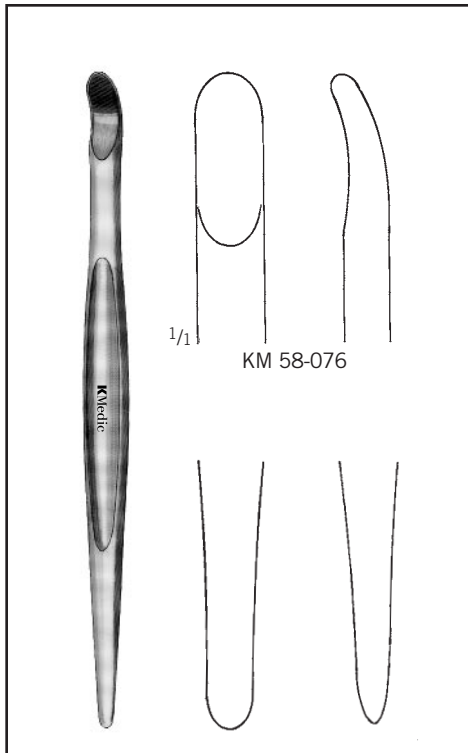
KM 57-628  
 style #3  
 7 3/4" (195mm)  
 double ended



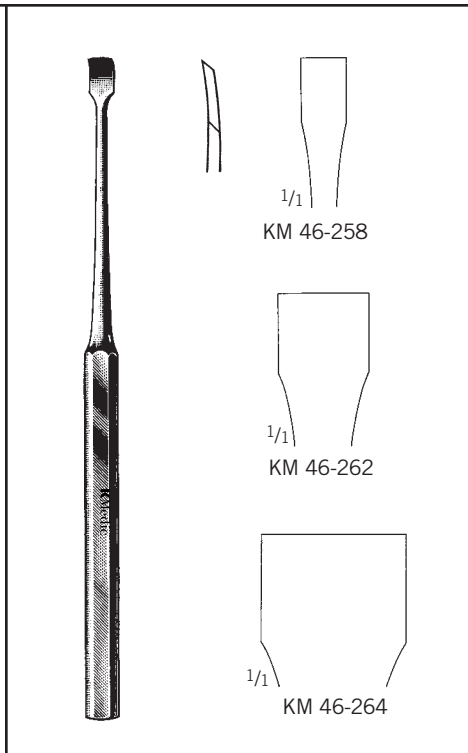
KM 57-630  
 style #4  
 8" (203mm)  
 single ended



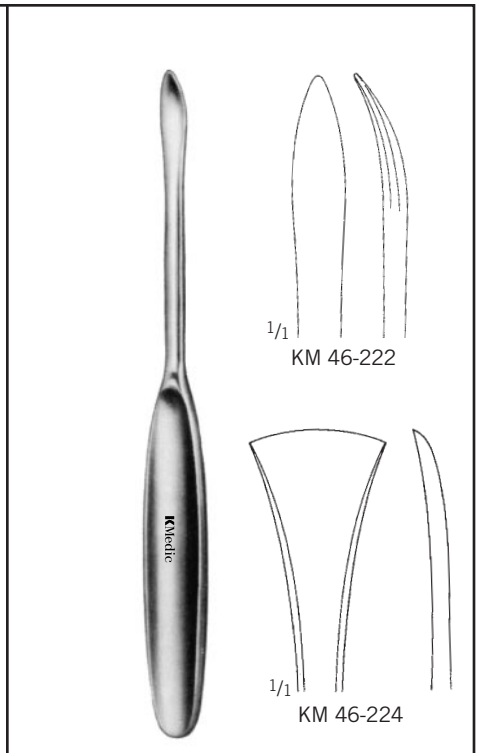
KM 57-632  
 style #5  
 7 1/2" (191mm)  
 double ended



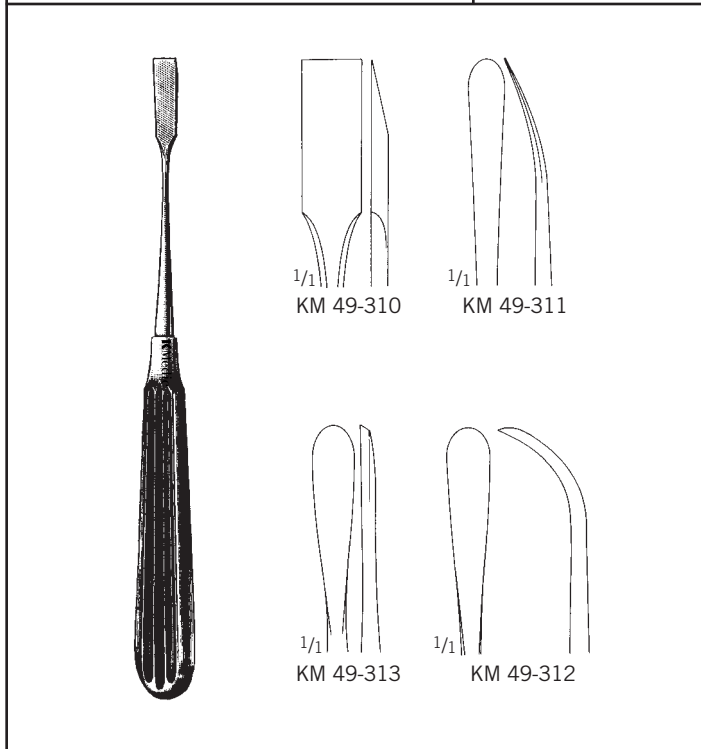
**SAYRE PERIOSTEAL ELEVATOR** 6½" (165mm)  
 KM 58-075 sharp, double ended  
 5mm end and 9mm end  
 KM 58-076 blunt, double ended  
 5mm end and 9mm end



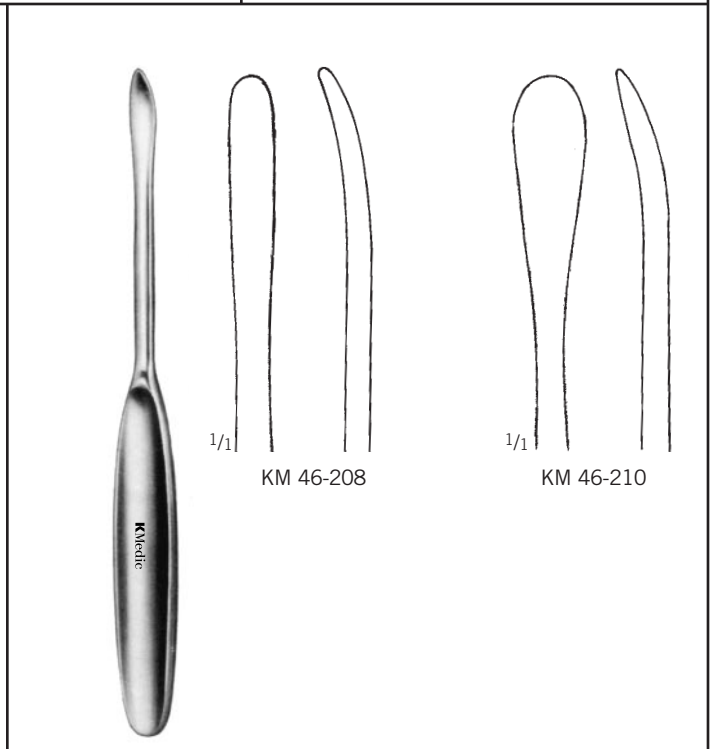
**KEY PERIOSTEAL ELEVATOR** sharp edge  
 KM 46-258 7" (178mm) ¼" (6mm) width  
 KM 46-260 7½" (191mm) ⅜" (10mm) width  
 KM 46-262 7½" (191mm) ½" (13mm) width  
 KM 46-264 8" (203mm) ⅜" (19mm) width



**LANGENBECK ELEVATOR**  
 KM 46-222 blunt edge  
 7¾" (197mm) width: 7mm  
 KM 46-224 sharp edge  
 7¾" (197mm) width: 17mm

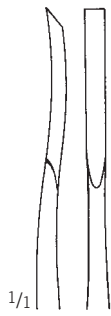


**ADSON PERIOSTEAL ELEVATOR** 6¾" (171mm)  
 KM 49-310 sharp 7mm straight  
 KM 49-311 blunt 7mm curved  
 KM 49-313 semi-sharp 7mm straight  
 KM 49-312 semi-sharp 7mm curved



**LANE PERIOSTEAL ELEVATOR**  
 KM 46-208 narrow  
 7¾" (195mm) 6mm blunt  
 KM 46-210 broad  
 7¾" (195mm) 10mm blunt

**ELEVATORS**



*Phenolic handles are autoclavable to 290° F (143° C).*

**PERIOSTEAL ELEVATOR**

KM 46-206  
7½" (184mm) sharp  
3mm straight edge  
curved blade  
phenolic handle



*Phenolic handles are autoclavable to 290° F (143° C).*

**PERIOSTEAL ELEVATOR**

KM 46-207  
7½" (184mm) sharp  
6mm straight edge  
curved blade  
phenolic handle



*Phenolic handles are autoclavable to 290° F (143° C).*

**PERIOSTEAL ELEVATOR**

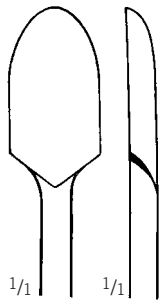
KM 46-211  
7½" (184mm) sharp  
6mm straight edge  
straight blade  
phenolic handle



*Phenolic handles are autoclavable to 290° F (143° C).*

**PERIOSTEAL ELEVATOR**

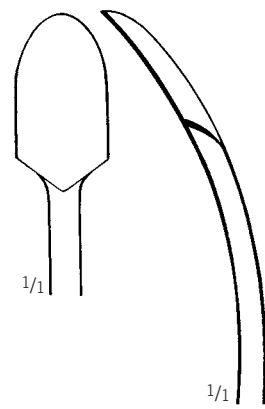
KM 46-212  
7½" (184mm) sharp  
6mm round edge  
curved blade  
phenolic handle



*Phenolic handles are autoclavable to 290° F (143° C).*

**PERIOSTEAL ELEVATOR**

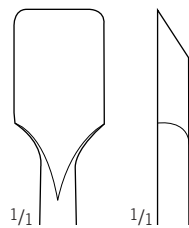
KM 46-213  
7<sup>3</sup>/<sub>4</sub>" (195mm) sharp  
14mm oval edge  
straight blade  
phenolic handle



*Phenolic handles are autoclavable to 290° F (143° C).*

**PERIOSTEAL ELEVATOR**

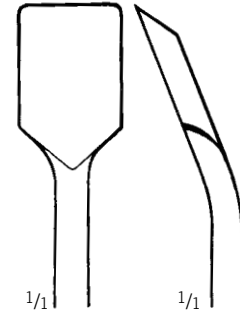
KM 46-214  
7<sup>1</sup>/<sub>2</sub>" (184mm) sharp  
14mm oval edge  
curved blade  
phenolic handle



*Phenolic handles are autoclavable to 290° F (143° C).*

**PERIOSTEAL ELEVATOR**

KM 46-215  
7<sup>1</sup>/<sub>2</sub>" (184mm) sharp  
13mm straight edge  
straight blade  
phenolic handle

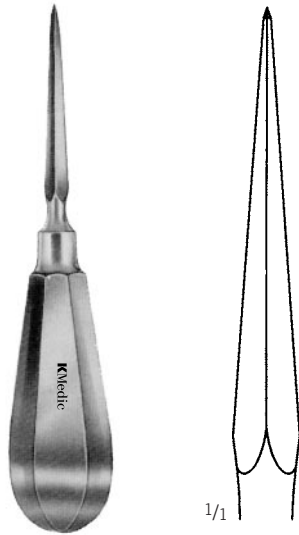


*Phenolic handles are autoclavable to 290° F (143° C).*

**PERIOSTEAL ELEVATOR**

KM 46-216  
7<sup>1</sup>/<sub>2</sub>" (184mm) sharp  
13mm straight edge  
curved blade  
phenolic handle

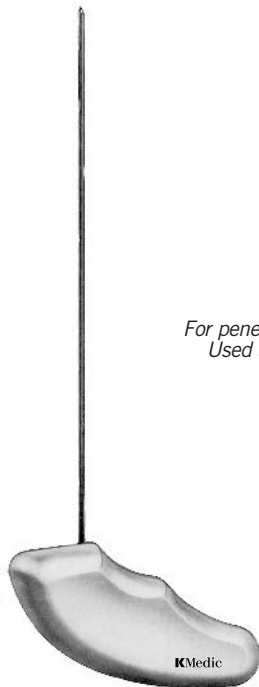
**BONE AWLS AND HOOKS**



**BONE AWL**  
 KM 48-336  
 6 1/4" (159mm)  
 square taper



**PERTHES BONE AWL**  
 KM 48-337  
 8 3/4" (210mm)



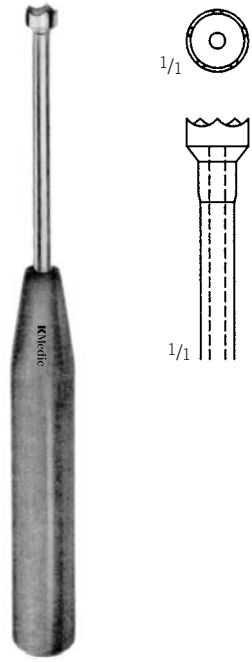
*For penetrating cortex of bone.  
 Used as grooved director for  
 insertion of pins.*

**RUSH AWL AND REAMER**  
 KM 48-338 7 1/2" (191mm) working end 2.5mm diameter  
 KM 48-339 8 3/4" (210mm) working end 3mm diameter  
 KM 48-340 8 7/8" (216mm) working end 5mm diameter  
 KM 48-341 10 1/2" (267mm) working end 6mm diameter



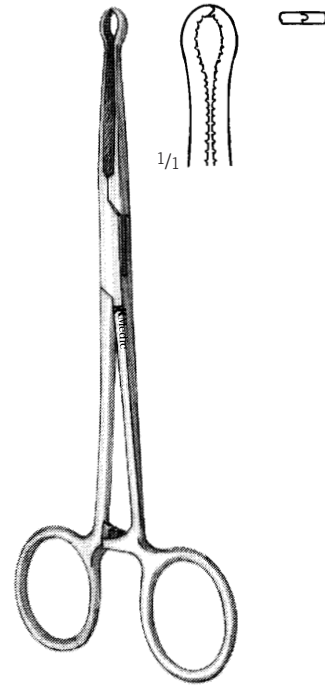
**BONE HOOK** 9" (229mm)  
 KM 48-342  
 small, sharp with grip handle  
 6mm height x 10mm depth



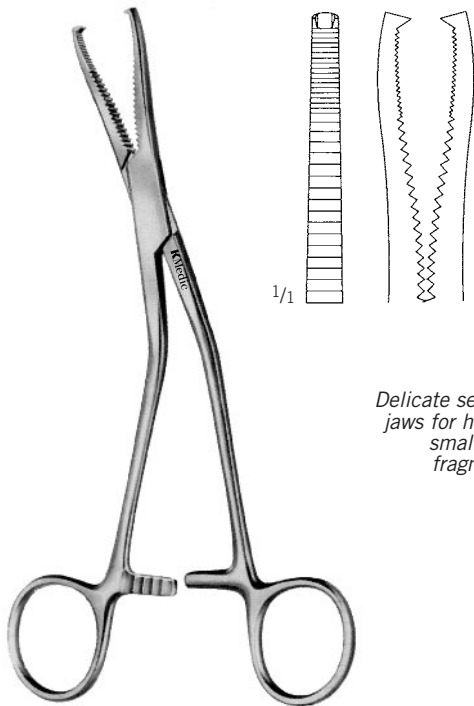


*Helpful for fixating a fracture particle with K-Wire. Cannulation accepts wires up to 2.0mm.*

**CROWN FIXATOR**  
 KM 49-910  
 6½" (165mm)  
 cannulated

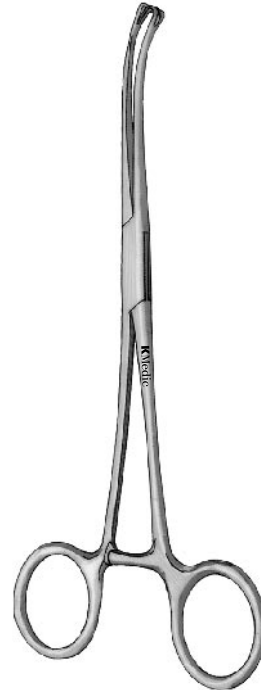


**LOCKE PHALANGEAL FORCEPS**  
 KM 69-787  
 6" (152mm)  
 1x2 teeth  
 serrated jaws



*Delicate serrated jaws for holding small bone fragments.*

**DINGMAN CARTILAGE AND BONE CLAMP**  
 KM 46-804  
 7½" (191mm) angular  
 2x2 sharp teeth  
 serrated jaws



**SMALL BONE CLAMP**  
 KM 69-795  
 6½" (165mm)  
 slightly curved

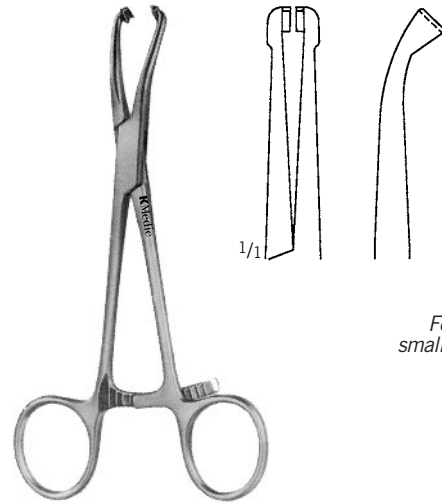
**BONE HOLDING INSTRUMENTS**



*For positioning  
mini bone plates.*

**PLATE AND BONE HOLDING FORCEPS**

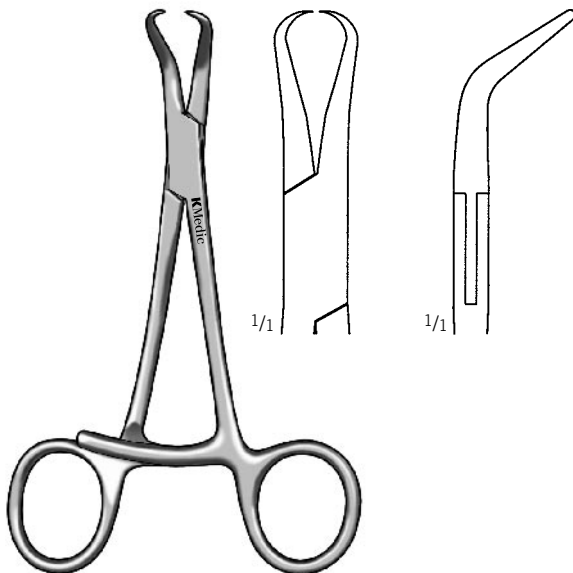
KM 47-139  
4 3/8" (121mm)  
one pointed tip  
and foot plate



*For positioning  
small bone plates.*

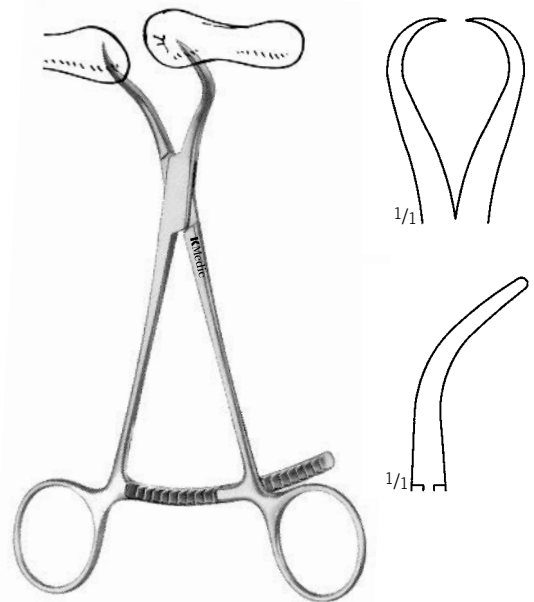
**PLATE AND BONE HOLDING FORCEPS**

KM 47-138  
4 3/8" (121mm)  
curved



**STAGBEETLE BONE  
REDUCTION FORCEPS**

KM 47-119  
4 3/4" (121mm)  
curved  
pointed tips



**BONE REDUCTION FORCEPS**

KM 45-300  
5" (127mm)  
curved  
pointed tips

**BONE REDUCTION FORCEPS**  
 serrated with pointed tips  
 KM 47-133      KM 47-135  
 5" (127mm)      5½" (140mm)  
 curved              curved  
 narrow              broad

**BONE REDUCTION FORCEPS**  
 with stepped point  
 KM 47-137      KM 47-136  
 5¼" (133mm)      6¾" (171mm)  
 curved              curved

*One tip has a stepped point for a better hold on bone.*

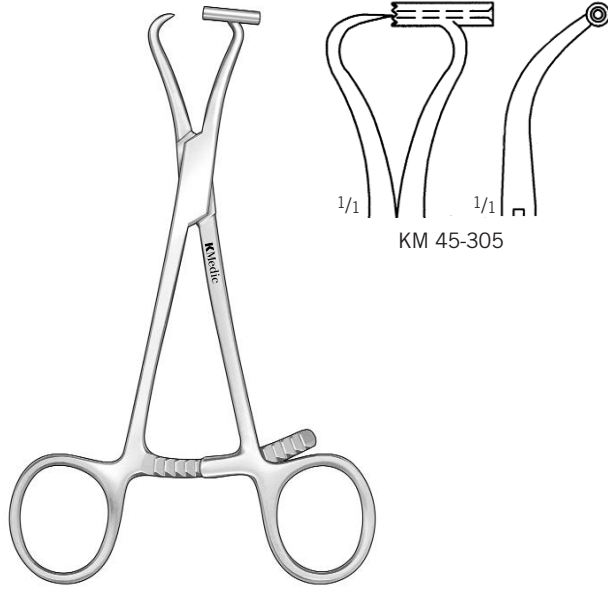
**BONE HOLDING FORCEPS** with K-Wire guide  
 KM 45-304  
 5¼" (133mm)  
 curved  
 with 1.6mm K-Wire guide

*For positioning K-Wire up to .062" (1.6mm)*

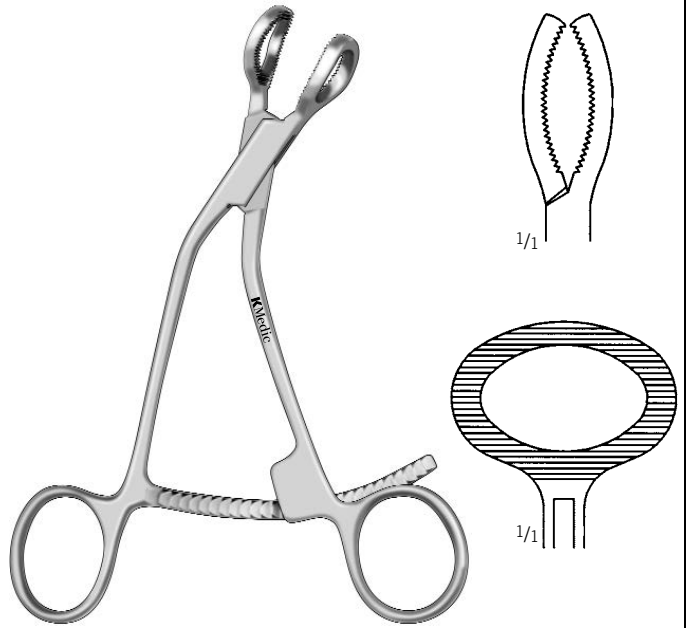
**BONE HOLDING FORCEPS** with K-Wire guide  
 KM 45-302  
 6¾" (171mm)  
 curved  
 with 0.9mm K-Wire guide

*For positioning K-Wire up to .035" (0.9mm)*

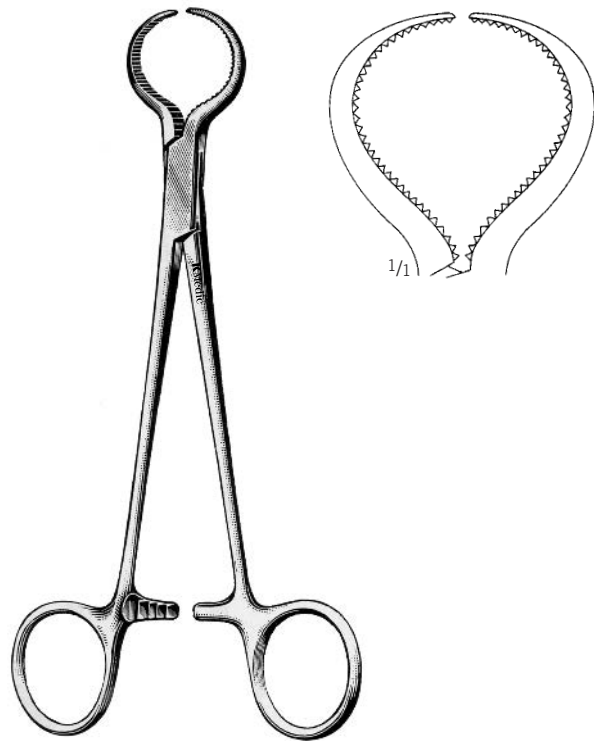
**BONE HOLDING INSTRUMENTS**



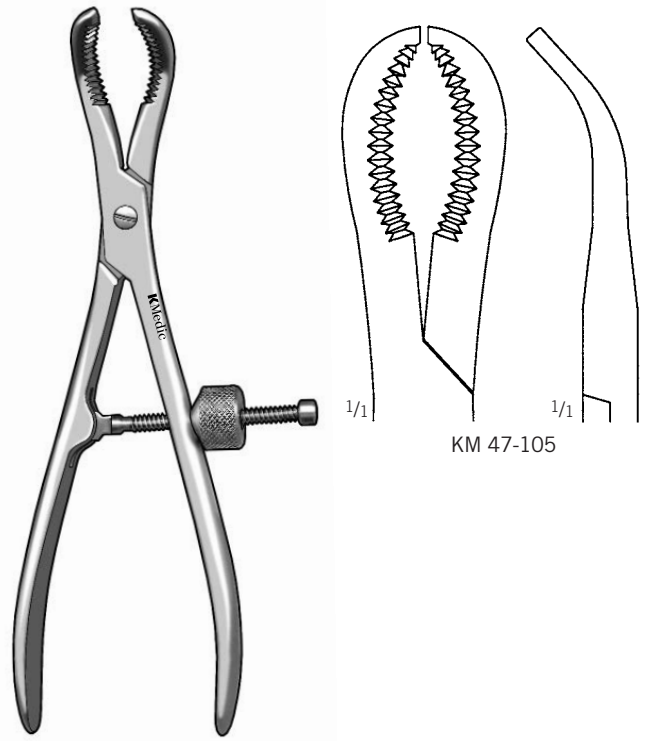
**BONE HOLDING FORCEPS** with K-Wire guide  
 5" (127mm) curved  
 KM 45-305 .035" (0.9mm)  
 KM 45-306 .045" (1.1mm)  
 KM 45-307 .062" (1.6mm)



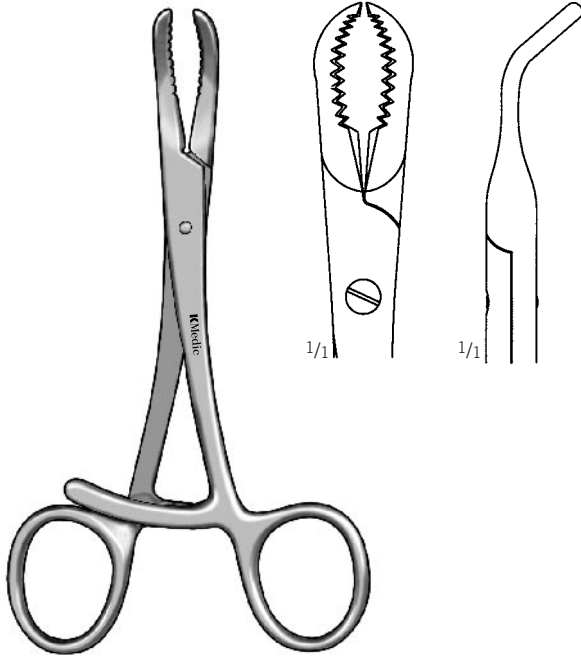
**BONE HOLDING FORCEPS** with fenestration  
 KM 47-129  
 6" (152mm) angular  
 inside fenestration: 22mm x 14mm  
 outside fenestration: 30mm x 20mm  
 ratchet length: 3" (76mm)



**LEWIN BONE FORCEPS**  
 KM 47-130  
 7" (178mm)  
 serrated  
 slightly curved

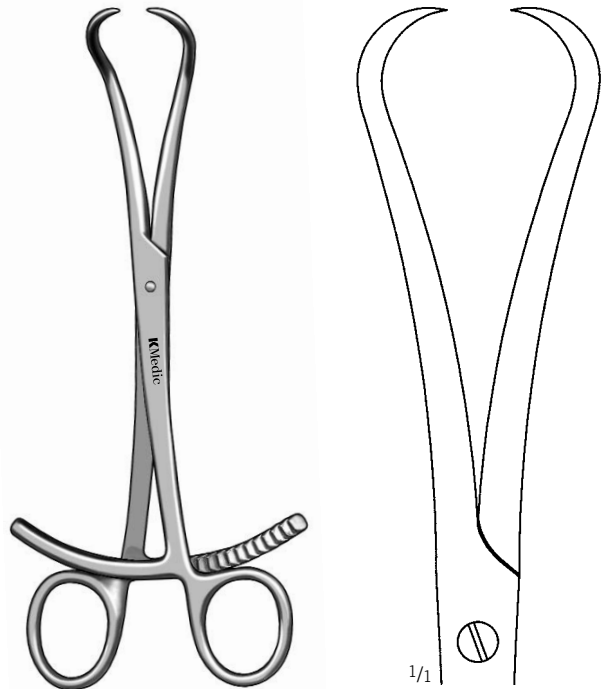


**BONE REDUCTION FORCEPS** with speed lock  
 KM 47-105 KM 47-107  
 7" (178mm) 9" (229mm)  
 curved curved



**BONE REDUCTION FORCEPS**

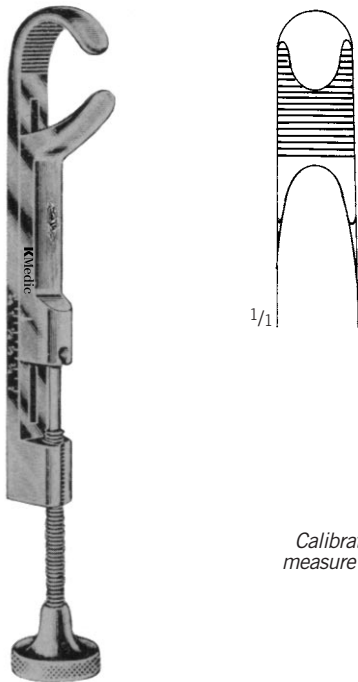
KM 47-128  
5½" (140mm) small  
curved  
ratchet length: 1½" (29mm)



**BONE REDUCTION FORCEPS**

KM 47-134  
8" (203mm)  
ratchet length: 2" (51mm)  
opens to 4" (102mm)

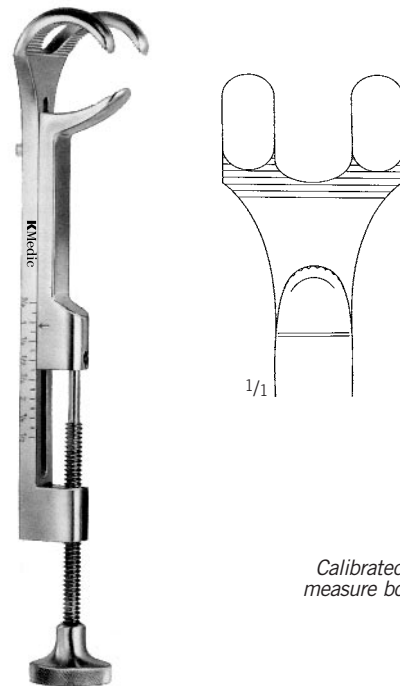
*With ratchet completely engaged, the jaw opening is 9mm wide.*



*Calibrated in inches to measure bone diameter.*

**LOWMAN BONE CLAMP**

KM 47-160  
4¾" (121mm)  
1x1 jaws

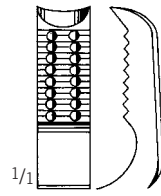


*Calibrated in inches to measure bone diameter.*

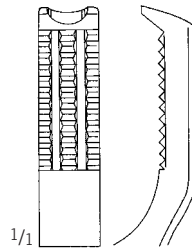
**LOWMAN BONE CLAMP**

KM 47-140  
4¾" (121mm)  
1x2 jaws

# BONE HOLDING INSTRUMENTS



KM 47-054  
KM 47-062

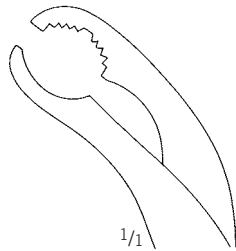
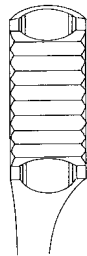


KM 47-056  
KM 47-064

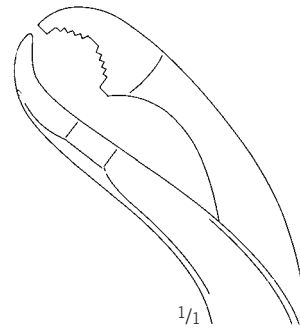


**KERN BONE FORCEPS** without ratchet  
KM 47-054 5 3/4" (146mm) mini  
KM 47-056 8 1/2" (216mm)

**KERN BONE FORCEPS** with ratchet  
KM 47-062 5 3/4" (146mm) mini  
KM 47-064 8 1/2" (216mm)

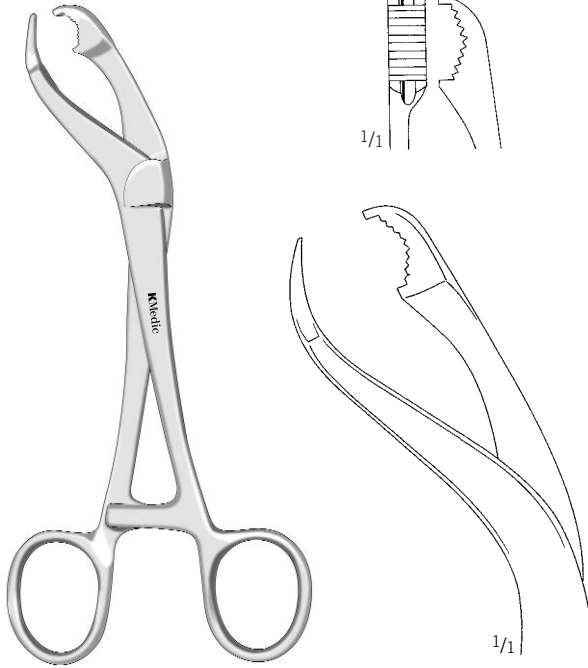


1/1  
KM 47-090  
6" (152mm)



1/1  
KM 47-092  
7 1/2" (191mm)

**VERBRUGGE FORCEPS** self centering, with speed lock



**VERBRUGGE BONE HOLDING FORCEPS**  
 KM 47-120  
 6 3/4" (171mm)  
 with short ratchet



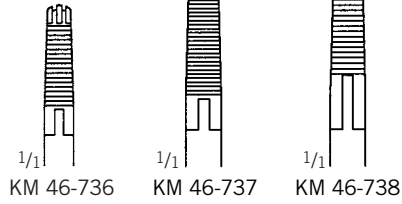
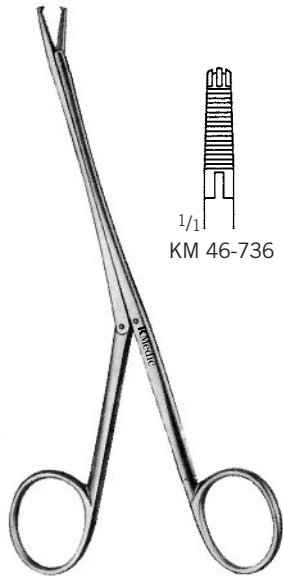
**ULRICH SELF-RETAINING FORCEPS**  
 KM 47-108  
 7 1/4" (184mm) mini  
 straight, with speed lock



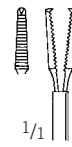
*Fit thin end of band through slot in other end of band. Insert thin end into clamp.*

**PARHAM-MARTIN BONE CLAMP**  
 KM 47-172                      KM 47-173  
 8 1/2" (216mm)                      single band only  
 bands not included

**TENDON INSTRUMENTS**



**BRAND TENDON PULLING FORCEPS** angular shaft  
 KM 46-736 6" (152mm)  
 KM 46-737 7½" (191mm)  
 KM 46-738 9½" (241mm)



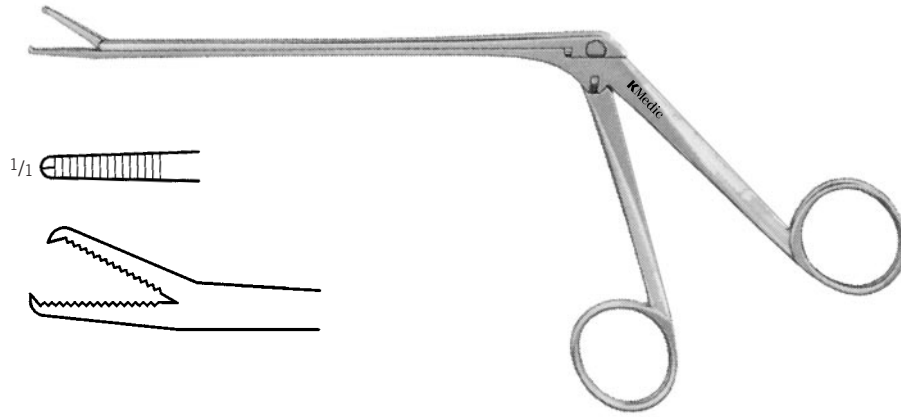
**KLEINERT-KUTZ TENDON RETRIEVER**  
 KM 46-739 8" (203mm) serrated with sharp teeth  
 KM 46-735 8" (203mm) serrated with sharp teeth flexible shaft



**CAROLL TENDON PULLING FORCEPS**  
 KM 46-740 5" (127mm) curved shaft serrated



*For retrieving tendons  
or foreign bodies.*



**HOEN GRASPING FORCEPS**

KM 55-170  
5 1/2" (140mm) shaft  
serrated jaw with 1x2 tip



○  
KM 46-730  
3mm

○  
KM 46-731  
4mm

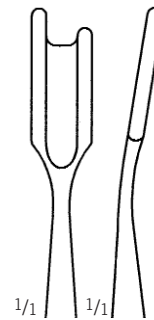
○  
KM 46-732  
5mm

1/1 ○  
KM 46-733  
6mm

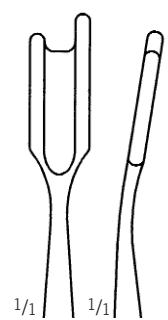
**BUNNELL TENDON STRIPPER** 6" (152mm)



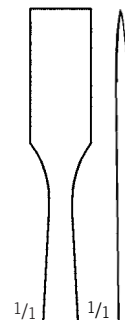
**SMILLIE KNIFE**  
6 3/4" (171mm)



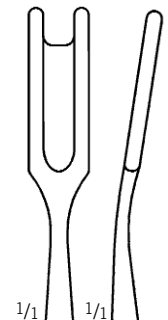
1/1 1/1  
KM 46-766  
curved left



1/1 1/1  
KM 46-770  
curved right

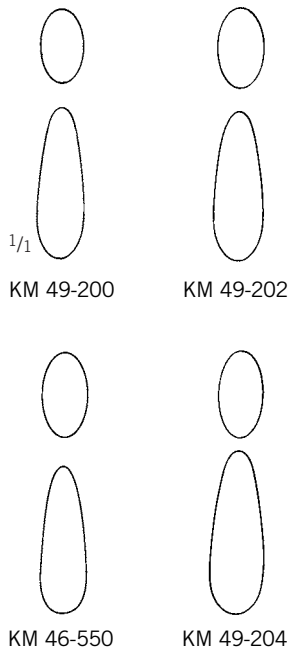


1/1 1/1  
KM 46-762  
straight  
chisel type



1/1 1/1  
KM 46-768  
dual guards

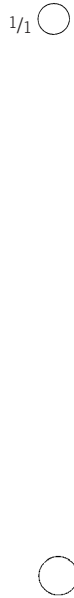
**BONE CURETTES**



**VOLKMANN CURETTE** oval cups, double ended  
 KM 49-200 5" (127mm)  
 KM 49-202 5½" (140mm)  
 KM 46-550 6½" (165mm)  
 KM 49-204 8" (203mm)



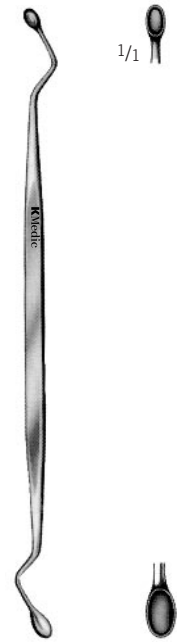
**VOLKMANN CURETTE** oval and round cups  
 KM 46-560 5" (127mm) double ended  
 KM 46-562 6½" (165mm) double ended  
 KM 46-561 8" (203mm) double ended



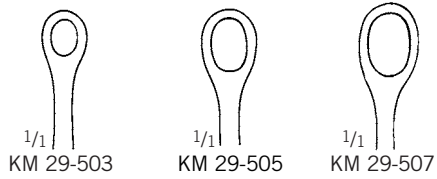
**MARTINI BONE CURETTE**  
 KM 29-620  
 5½" (140mm)  
 double ended  
 4mm & 5mm round



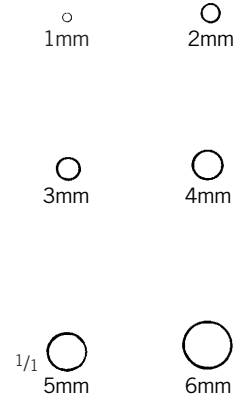
**WILLIGER BONE CURETTE**  
 KM 29-630  
 5½" (140mm)  
 double ended  
 3mm & 4mm oval



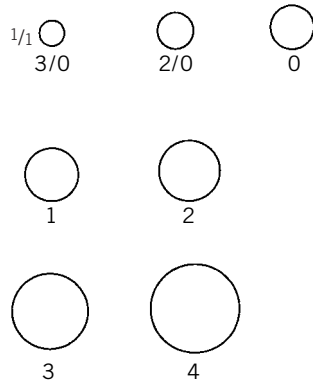
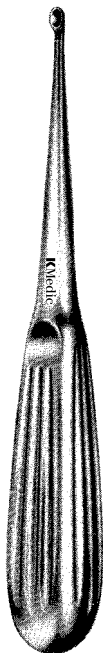
**JANSEN CURETTE**  
 KM 29-632  
 6" (152mm)  
 double ended  
 oval cups



**PIFFARD CURETTE** 5½" (140mm)  
 KM 29-503 small  
 KM 29-505 medium  
 KM 29-507 large

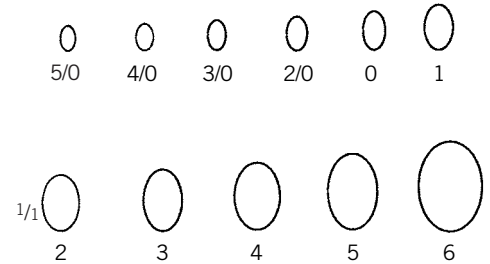


**FOX CURETTE** 5½" (140mm) round  
 KM 29-495 1mm      KM 29-498 4mm  
 KM 29-496 2mm      KM 29-499 5mm  
 KM 29-497 3mm      KM 29-500 6mm



**6¼" round cup**  
 KM 49-120 #3/0  
 KM 49-121 #2/0  
 KM 49-122 #0  
 KM 49-123 #1  
 KM 49-124 #2  
 KM 49-125 #3  
 KM 49-126 #4

**BRUN (SPRATT) CURETTE** 6¼" (159mm)  
 with hollow handle, round cup

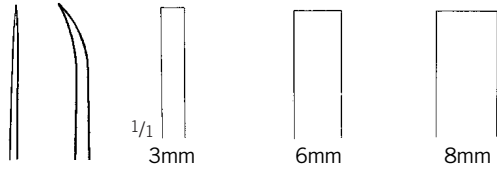


**7" oval cup**  
 KM 46-511 #5/0  
 KM 46-512 #4/0  
 KM 46-513 #3/0  
 KM 46-515 #2/0  
 KM 46-517 #0  
 KM 46-519 #1  
 KM 46-521 #2  
 KM 46-523 #3  
 KM 46-525 #4  
 KM 46-529 #5  
 KM 46-531 #6

See page 127 for  
 Brun SmartRack®  
 KM 98-160

**BRUN (SPRATT) CURETTE** 7" (178mm)  
 with hollow handle, oval cup

**OSTEOTOMES**



**straight**

KM 46-497	1/8"	3mm
KM 46-498	3/16"	4mm
KM 46-499	1/4"	6mm
KM 46-500	5/16"	8mm
KM 46-501	3/8"	10mm
KM 46-502	1/2"	13mm
KM 46-503	5/8"	16mm
KM 46-504	3/4"	19mm

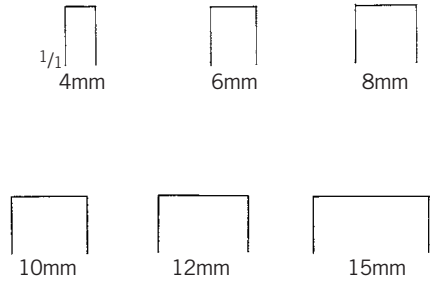
**curved**

KM 46-700	1/8"	3mm
KM 46-701	3/16"	4mm
KM 46-702	1/4"	6mm
KM 46-703	5/16"	8mm
KM 46-704	3/8"	10mm
KM 46-706	1/2"	13mm
KM 46-708	5/8"	16mm
KM 46-709	3/4"	19mm

See page 127 for  
Hoke SmartRack®  
KM 98-150.

**HOKE OSTEOTOME**

5 1/2" (140mm)

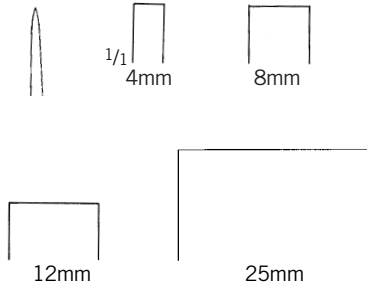


KM 46-336	4mm
KM 46-338	6mm
KM 46-340	8mm
KM 46-342	10mm
KM 46-344	12mm

KM 46-343	14mm
KM 46-345	15mm
KM 46-346	18mm
KM 46-347	19mm
KM 46-335	20mm

**MINI-LAMBOTTE OSTEOTOME**

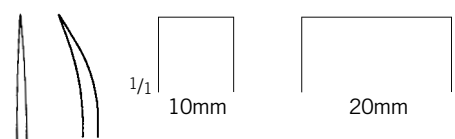
5" (127mm) straight



KM 46-348	4mm
KM 46-349	5mm
KM 46-350	6mm
KM 46-358	8mm
KM 46-351	10mm
KM 46-352	12mm
KM 46-353	16mm
KM 46-354	19mm
KM 46-355	22mm
KM 46-356	25mm

**LAMBOTTE OSTEOTOME**

7" (178mm) straight with calibration lines



**straight**

KM 69-940	10mm
KM 69-946	20mm
KM 69-950	25mm

**curved**

KM 69-970	5mm
KM 69-975	10mm

*The unusually long bevel  
allows the cut bone to bend  
gradually as it is cut.*

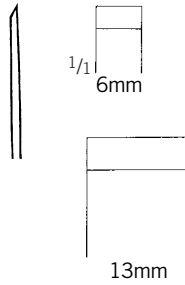
**LONG BEVEL OSTEOTOME**

7" (178mm) with calibration lines



- KM 46-268 2mm
- KM 46-270 4mm
- KM 46-272 6mm
- KM 46-274 8mm
- KM 46-276 10mm
- KM 46-278 12mm
- KM 46-280 15mm

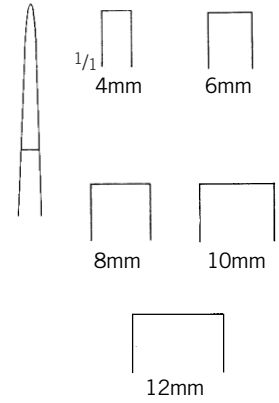
**SHEEHAN OSTEOTOME** 6¼" (159mm)



- KM 46-505 3/16" (4mm)
- KM 46-506 1/4" (6mm)
- KM 46-507 3/8" (10mm)
- KM 46-508 1/2" (13mm)
- KM 46-509 3/4" (19mm)

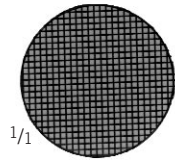
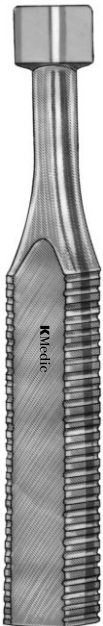
See page 127 for  
Hoke SmartRack®  
KM 98-150.

**HOKE CHISEL** 5¼" (133mm) straight



- KM 49-260 4mm
- KM 49-262 6mm
- KM 49-264 8mm
- KM 49-266 10mm
- KM 49-268 12mm

**LEXER MINI CHISEL** 7" (178mm)

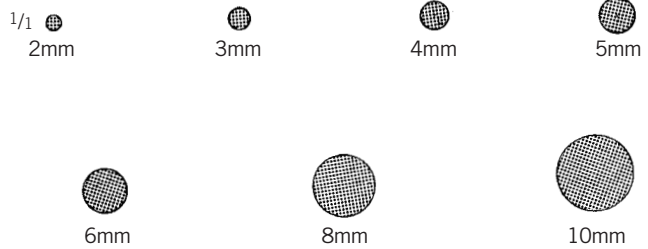


Designed to tap bone graft or bone parts into place with minimal trauma to the bone. The compactor head is nylon with a grid surface to prevent slippage.

Autoclavable to 250° F (121° C).

**BONE IMPACTOR**

KM 69-980  
6½" (165mm) with replaceable nylon caps  
anodized aluminum handle  
head diameter: 20mm



- KM 46-893 2mm diameter
- KM 46-894 3mm
- KM 46-895 4mm
- KM 46-896 5mm
- KM 46-897 6mm
- KM 46-898 8mm
- KM 46-899 10mm

**BONE TAMP** 6" (152mm) with cross serrated tip

**MALLETS****MINI Mallet**

KM 49-765  
7" (178mm) solid stainless steel  
weight: 4 oz. (120 grams)  
head weight: 3 oz. (80 grams)  
head diameter: 20mm

**LUCAE BONE Mallet**

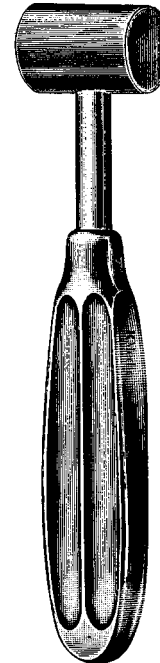
KM 49-761  
7½" (191mm)  
solid stainless steel  
weight: 7 oz. (200 grams)  
head weight: 3 oz. (80 grams)  
head diameter: 19mm  
convex contact surfaces

KM 46-660  
8" (203mm) brass head  
stainless steel handle  
weight: 9 oz. (260 grams)  
head weight: 5 oz. (150 grams)  
head diameter: 25mm  
convex and flat contact surfaces

*Note: Lead filled mallets should only be used to strike flat surfaces.  
Do not use to hit sharp objects as doing so can cause lead to flake off.*

**Mallet #49**

KM 46-656  
7¾" (195mm) lead filled and faced  
weight: 7 oz. (200 grams)  
head weight: 5 oz. (150 grams)  
head diameter: 22mm

**GERZOG BONE Mallet**

KM 46-661  
7½" (191mm) lead filled and faced  
weight: 10 oz. (285 grams)  
head weight: 7 oz. (200 grams)  
head diameter: 25mm

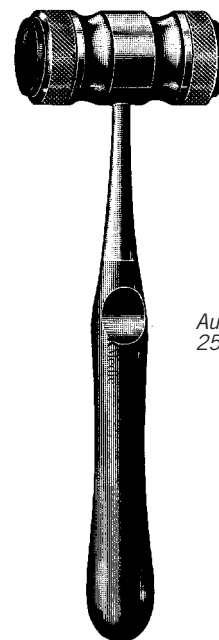


*Autoclavable to 250°F (121°C).*

**MALLET** lightweight  
KM 46-662  
7½" (191mm) with two replaceable nylon caps  
anodized aluminum handle  
weight: 7 oz. (200 grams)  
head weight: 4 oz. (120 grams)  
head diameter: 25mm



**COLLIN Mallet**  
KM 49-760  
8" (203mm) solid stainless steel  
weight: 7 oz. (200 grams)  
head weight: 5 oz. (150 grams)  
head diameter: 30mm



*Autoclavable to 250°F (121°C).*

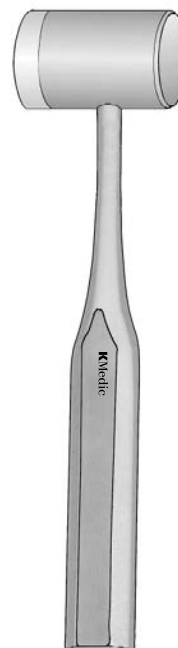
**MEAD Mallet**  
KM 46-657  
7½" (191mm) with replaceable nylon caps  
weight: 11 oz. (315 grams)  
head weight: 6 oz. (170 grams)  
head diameter: 20mm



*Useful in areas where access is limited.*

*Autoclavable to 290°F (143°C).*

**NARROW TIP Mallet**  
KM 49-764  
8" (203mm) with phenolic handle  
weight: 7 oz. (200 grams)  
head weight: 3 oz. (80 grams)  
head diameter: 18mm x 18mm (square contact surface)  
7mm (round contact surface)



*Autoclavable to 250°F (121°C).*

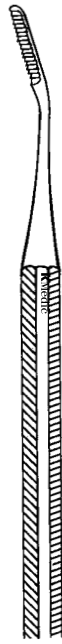
**COMBINATION Mallet**  
with one nylon cap and one solid stainless side  
KM 46-686  
7½" (191mm)  
weight: 9 oz. (260 grams)  
head weight: 5 oz. (150 grams)  
head diameter: 26mm

KM 46-687  
7½" (191mm)  
weight: 12 oz. (340 grams)  
head weight: 8 oz. (240 grams)  
head diameter: 30mm

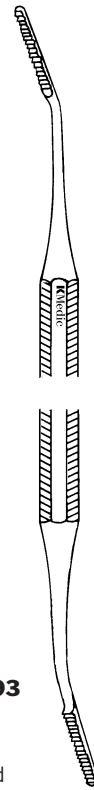
**FILES AND RASPS**



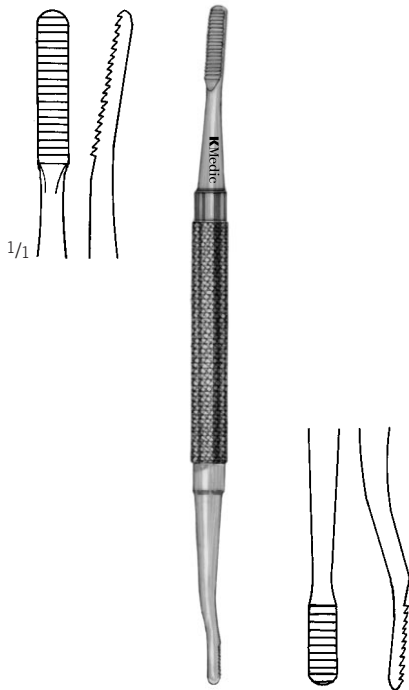
**BONE FILE #92B**  
 KM 69-534  
 6" (152mm)  
 single ended  
 2mm width angled  
 plain serrations  
 delicate



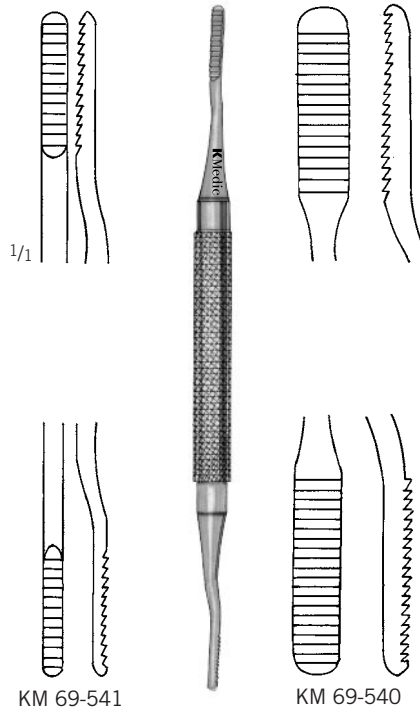
**BONE FILE #92A**  
 KM 69-530  
 6" (152mm)  
 single ended  
 2mm width angled  
 plain serrations  
 delicate



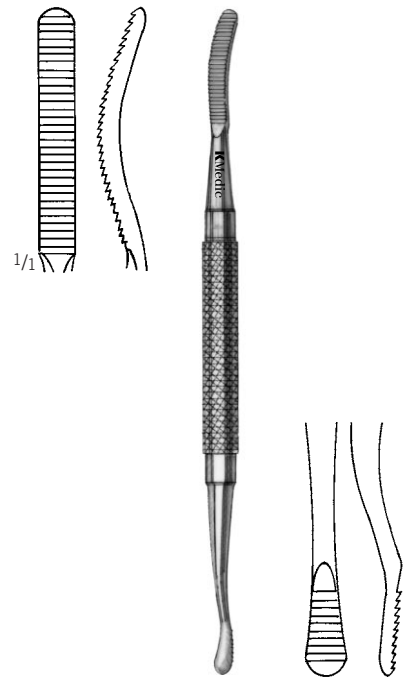
**NAIL RASP #93**  
 KM 69-538  
 6 3/4" (171mm)  
 double ended  
 2mm width angled



**BONE RASP #64**  
 KM 58-070  
 7" (178mm)  
 double ended  
 3mm and 4mm width  
 plain serrations



**POLOKOFF RASP** plain serrations  
 KM 69-541 7" (178mm) double ended 3mm and 4mm width  
 KM 69-540 8 1/2" (216mm) double ended 6mm width



**BONE FILE #10**  
 KM 69-542  
 7" (178mm)  
 double ended  
 5mm width  
 plain serrations



**BONE FILE #12**  
 KM 69-543  
 7" (178mm) double ended  
 7mm and 5mm width  
 plain serrations

**BONE FILE #12A**  
 KM 69-544  
 7" (178mm) double ended  
 5mm width  
 plain and cross serrations

**BONE FILE #12CA**  
 KM 69-545  
 7" (178mm) double ended  
 5mm and 7mm width  
 cross serrations

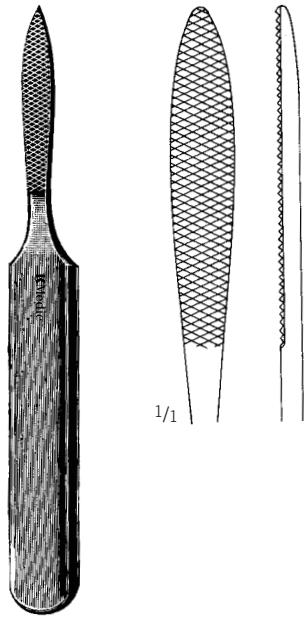
**BONE FILE #33**  
 KM 69-546  
 7" (178mm) double ended  
 6mm and 5mm width  
 plain serrations

**BONE FILE #45**  
 KM 69-549  
 7 1/4" (184mm) double ended  
 6mm and 5mm width  
 plain serrations

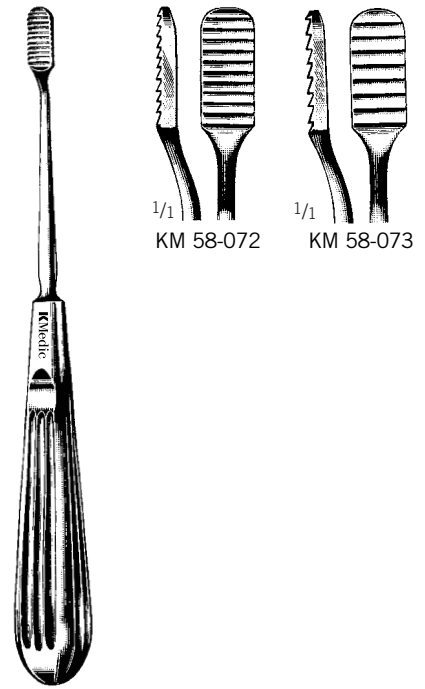
**BONE RASP**  
 KM 69-547  
 8 1/2" (216mm) double ended  
 13mm width  
 fine and coarse cross serrations

*For rapid shaping of bone.*

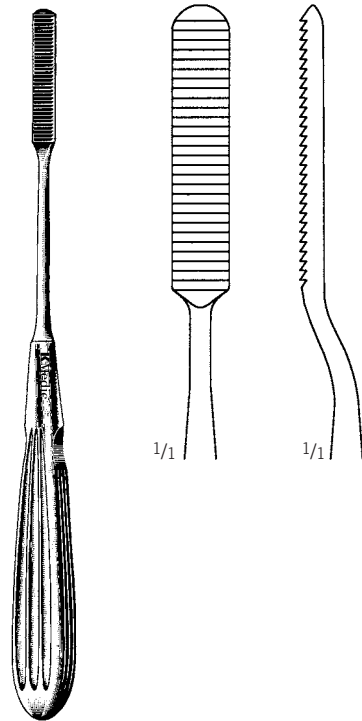
**FILES AND RASPS**



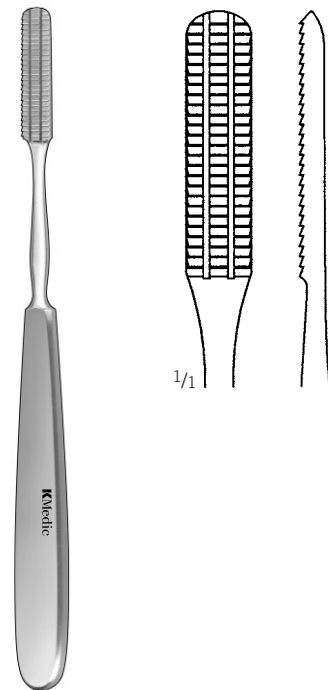
**JOSEPH RASP**  
 KM 58-068  
 6¼" (159mm) single ended  
 8mm at widest point  
 fine cross serrations



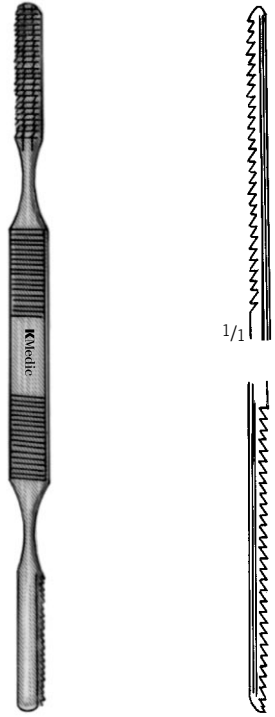
**LEWIS RASP** plain serrations  
 KM 58-072 KM 58-073  
 7½" (191mm) fine 7½" (191mm) coarse  
 single ended single ended  
 8mm width 8mm width



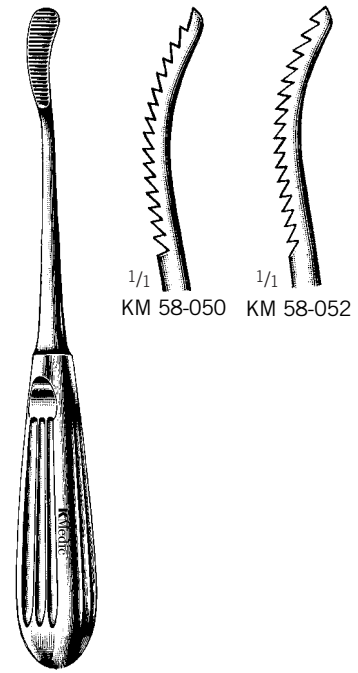
**COTTLE RASP**  
 KM 58-066  
 8" (203mm) single ended  
 backward cutting  
 7.5mm width  
 plain serrations



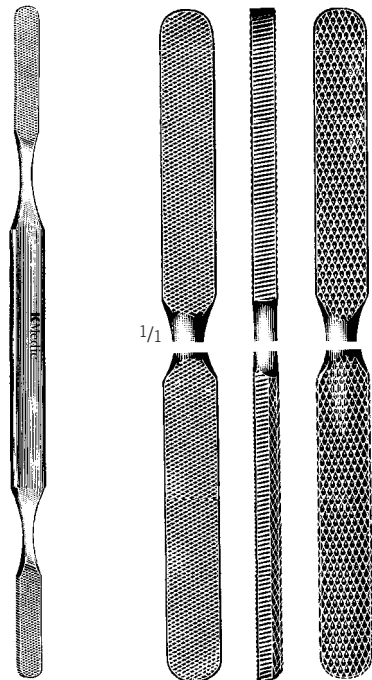
**MALTZ RASP**  
 KM 58-060  
 7" (178mm) single ended  
 backward cutting  
 10mm width



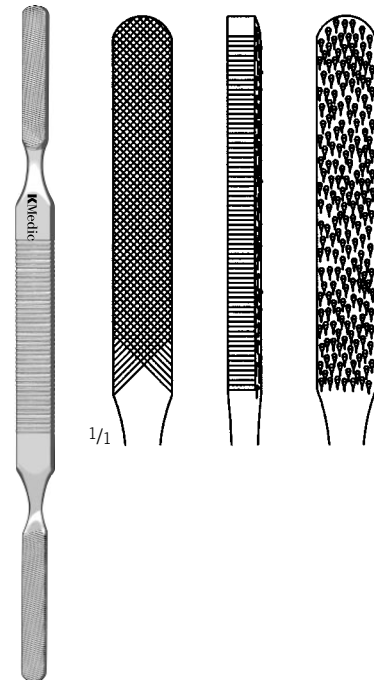
**MALTZ RASP IMPROVED**  
 KM 58-062  
 8 3/4" (210mm) double ended  
 8mm width  
 forward and backward cutting



**AUFRICT RASP** 8 3/4" (210mm)  
 KM 58-050      KM 58-052  
 single ended      single ended  
 forward cutting      backward cutting  
 9mm width      9mm width

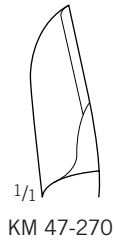
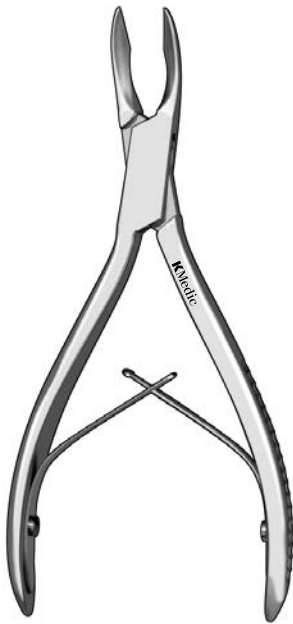


**FOMON RASP**  
 KM 46-655  
 8 1/2" (216mm) double ended  
 fine and coarse teeth  
 4-sided, convex and flat blades  
 8mm width



**KLEINERT KUTZ RASP**  
 KM 46-653  
 8 1/2" (216mm) double ended  
 fine and coarse teeth  
 4-sided, convex and flat blades  
 8mm width

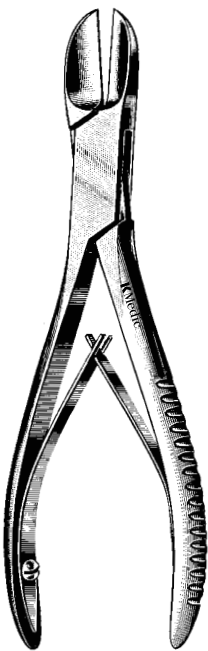
**BONE CUTTING FORCEPS**



*For small bones.*

**BONE CUTTING FORCEPS (CLEVELAND)**

KM 47-270 5 1/2" (146mm)  
 KM 47-272 6 1/2" (165mm)



KM 47-398  
 5 1/2" (140mm)  
 straight



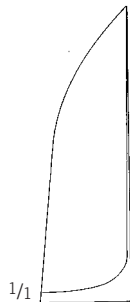
KM 47-410  
 5 1/2" (140mm)  
 angled on flat



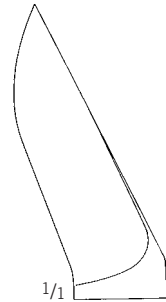
KM 47-400  
 6 3/4" (171mm)  
 straight



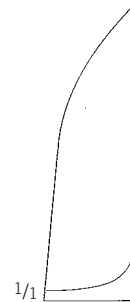
KM 47-404  
 6 3/4" (171mm)  
 angled on flat



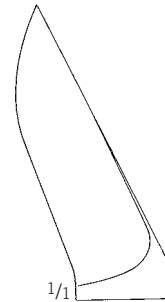
KM 47-402  
 7 1/2" (191mm)  
 straight



KM 47-412  
 7 1/2" (191mm)  
 angled on flat

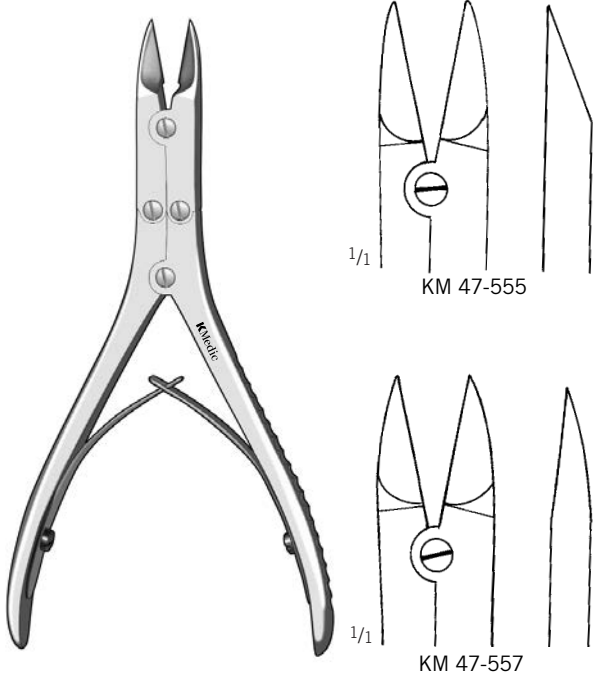


KM 47-406  
 8 1/2" (216mm)  
 straight

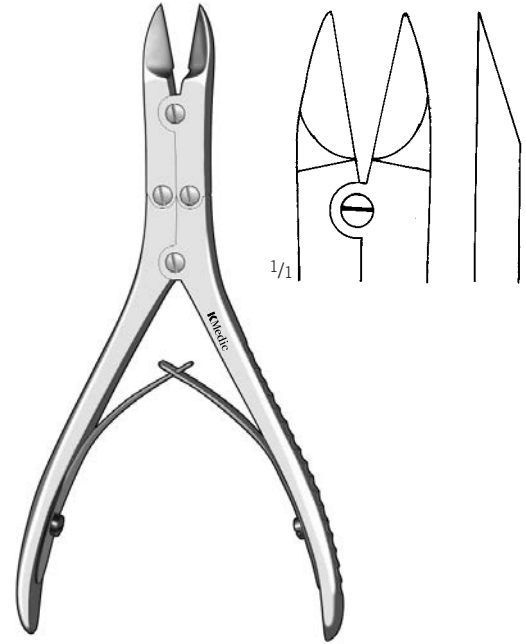


KM 47-408  
 8 1/2" (216mm)  
 angled on flat

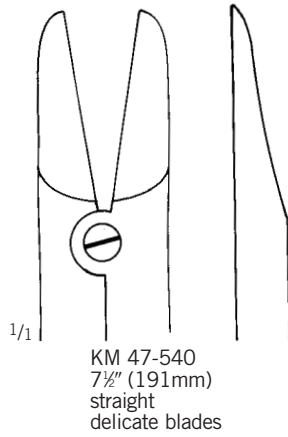
**LISTON BONE FORCEPS**



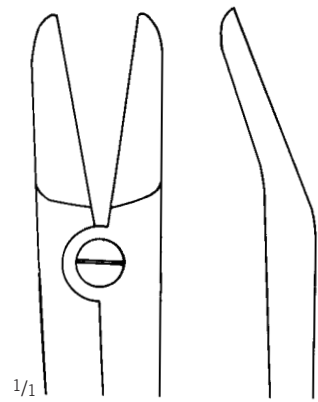
**KLEINERT-KUTZ FORCEPS** 6" (152mm)  
 KM 47-555 straight delicate blades  
 KM 47-557 curved delicate blades



**RUSKIN-LISTON FORCEPS**  
 KM 47-550 6" (152mm) straight



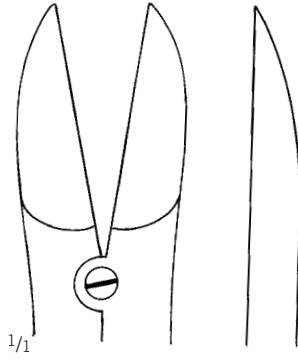
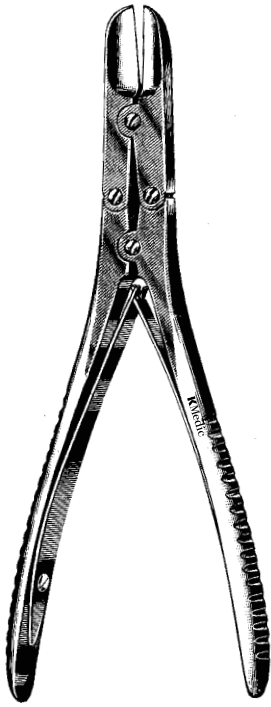
KM 47-540  
 7½" (191mm)  
 straight delicate blades



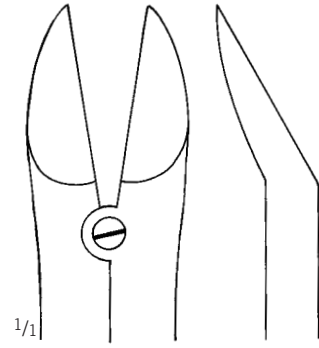
KM 47-541  
 7" (178mm)  
 angled on flat delicate blades

**RUSKIN-LISTON FORCEPS**

**BONE CUTTING FORCEPS**

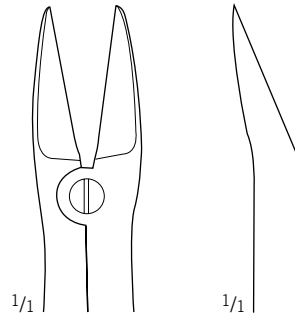


KM 47-538  
7½" (191mm)  
straight

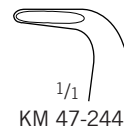
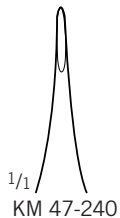


KM 47-542  
7¼" (184mm)  
angular

**RUSKIN-LISTON FORCEPS**



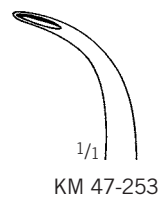
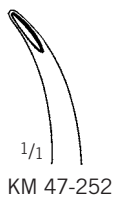
**MCINDOE FORCEPS**  
KM 47-546  
7" (178mm)  
angled  
very delicate blades



*For soft tissue and cancellous bone only.*

**MICRO FRIEDMAN RONGEUR**  $5\frac{1}{2}$ " (140mm) extremely delicate

- KM 47-240 straight 1.5x5mm bite
- KM 47-242 30° angled 1.5x5mm bite
- KM 47-244 90° angled 1.5x5mm bite

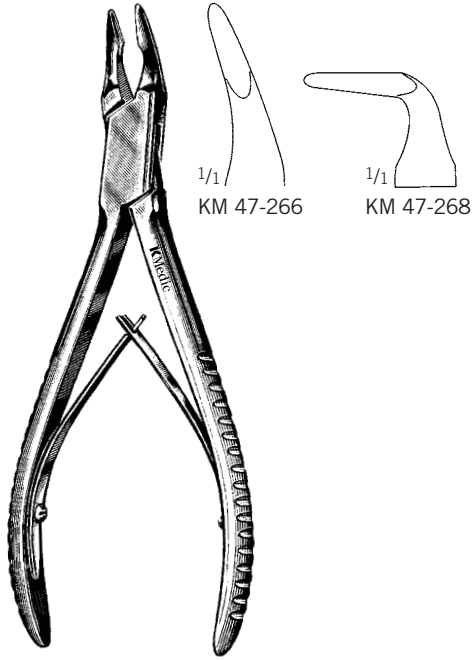


*For soft tissue and cancellous bone only.*

**SYNOVECTOMY RONGEUR**  $6\frac{3}{4}$ " (171mm) extremely delicate

- KM 47-252 slight curve 2x5mm bite
- KM 47-253 strong curve 2x5mm bite

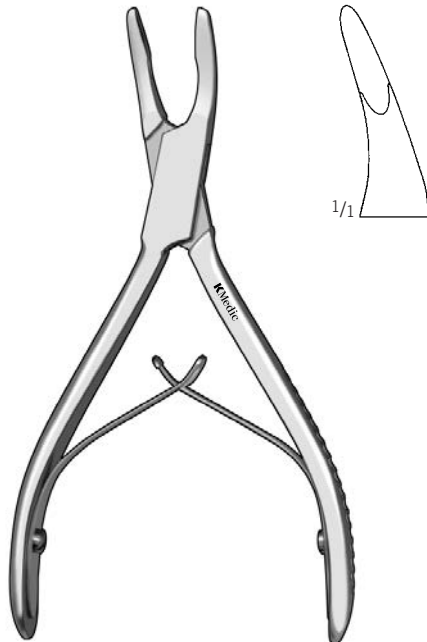
**RONGEURS**



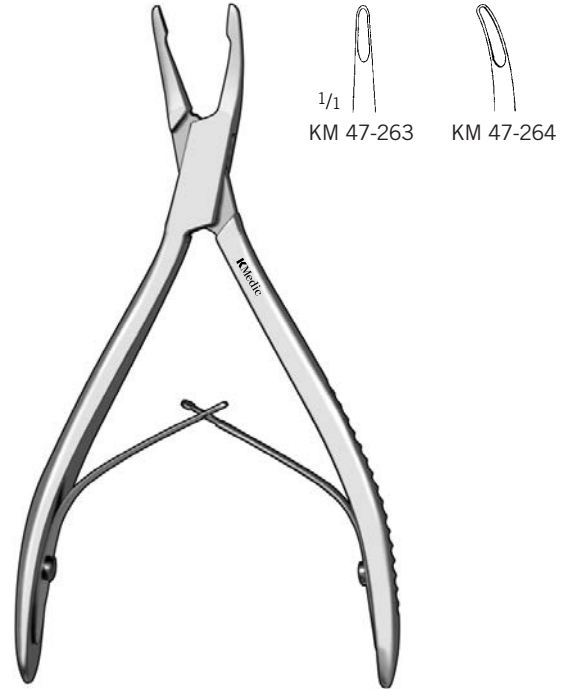
**DEAN (BLUMENTHAL) RONGEUR 6" (152mm)**  
 KM 47-266 curved 30°  
 KM 47-268 curved 90°  
 4x11mm bite



**CHICHIRELLI RONGEUR (BLUMENTHAL)**  
 KM 47-267  
 6" (152mm)  
 curved 45°  
 4x13mm bite

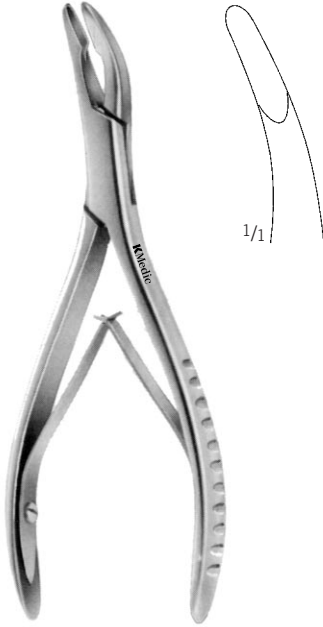


**FRIEDMAN RONGEUR**  
 KM 47-262  
 5½" (140mm) curved delicate  
 4x11mm bite



**MINI FRIEDMAN RONGEUR 6" (152mm)**  
 KM 47-263 straight delicate  
 KM 47-264 curved delicate  
 2x8mm bite





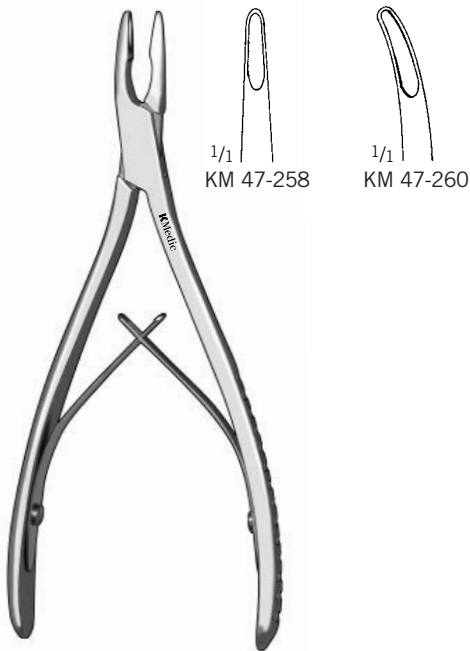
**DEAN RONGEUR**  
 KM 47-286  
 5 1/4" (146mm) curved  
 3x10mm bite



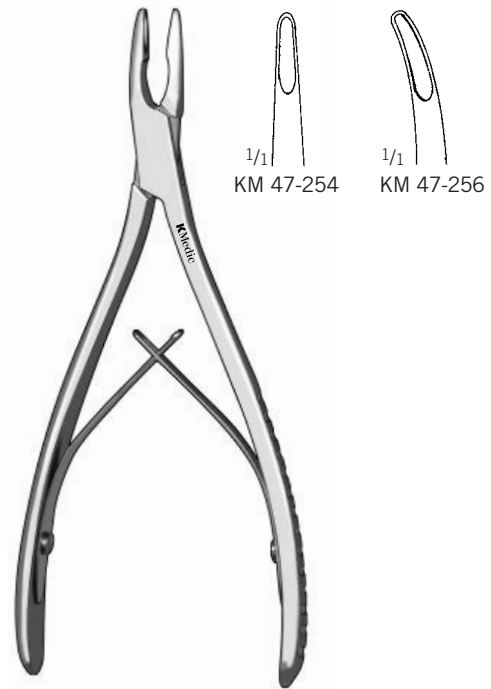
**RONGEUR #4**  
 KM 47-274  
 5 1/2" (140mm) curved  
 4x9mm bite



**RONGEUR #4A**  
 KM 47-275  
 6 1/2" (165mm) curved  
 4x7mm bite

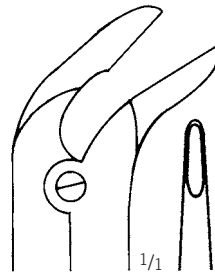


**LEMPERT RONGEUR 6" (152mm)**  
 KM 47-258      KM 47-260  
 straight delicate      curved delicate  
 3x7mm bite      3x7mm bite



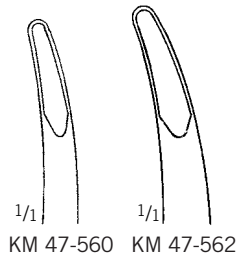
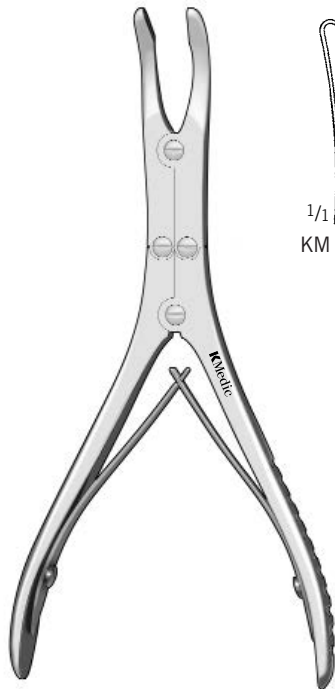
**LEMPERT RONGEUR 7 1/2" (191mm)**  
 KM 47-254      KM 47-256  
 straight delicate      curved delicate  
 3x7mm bite      3x7mm bite

**RONGEURS**



**KLEINERT-KUTZ  
SYNOVECTOMY RONGEUR**

KM 47-553  
6" (152mm) curved on side  
delicate  
2x10mm bite



KM 47-560 KM 47-562

**KLEINERT-KUTZ  
SYNOVECTOMY RONGEUR**

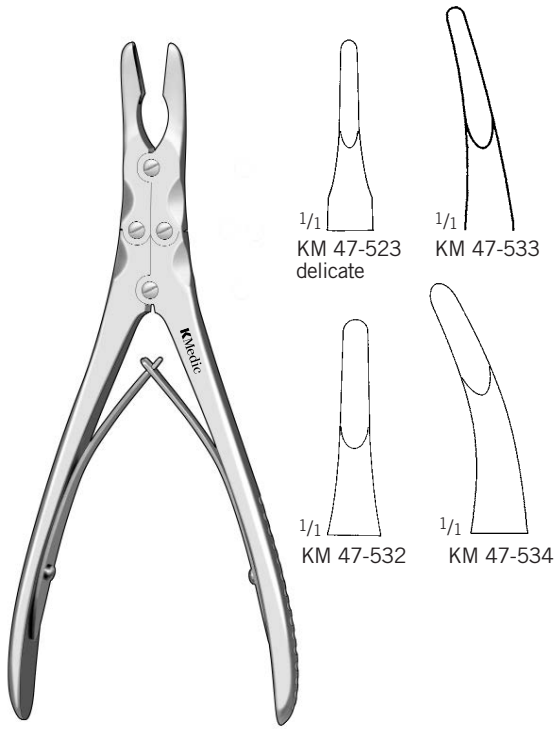
KM 47-560  
6" (152mm) slight curve  
delicate  
2x13mm bite

KM 47-562  
6" (152mm) slight curve  
delicate  
3x16mm bite



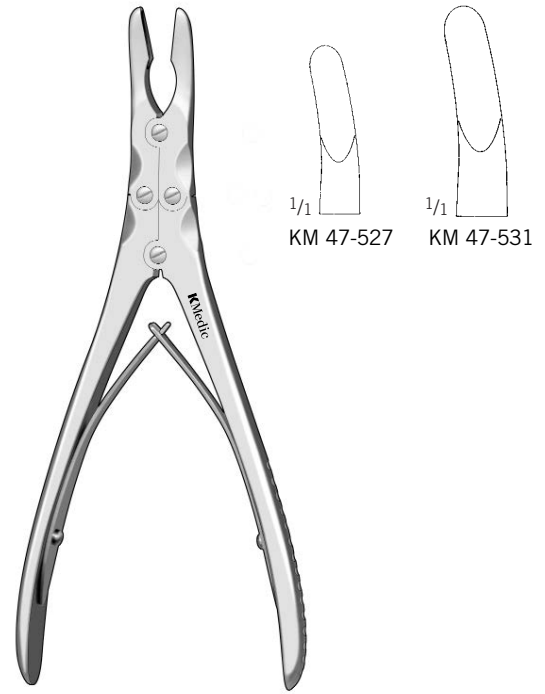
**KLEINERT-KUTZ  
SYNOVECTOMY RONGEUR**

KM 47-558  
6" (152mm) full curve  
delicate  
3x8mm bite



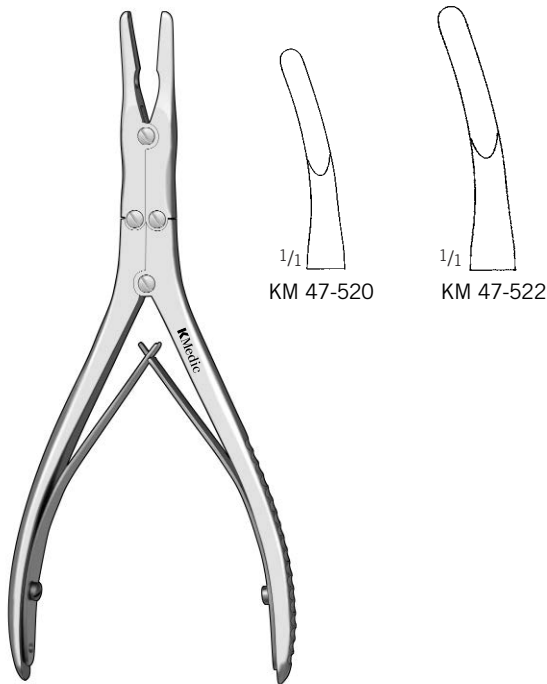
**RUSKIN RONGEUR 6" (152mm)**

<i>straight</i>		<i>curved</i>	
KM 47-523	2x14mm bite	KM 47-533	2x15mm bite
KM 47-532	3x15mm bite	KM 47-534	3x15mm bite



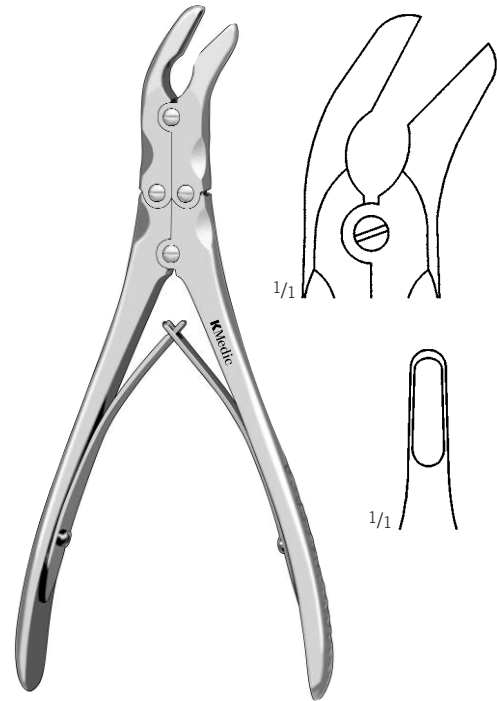
**RUSKIN RONGEUR 7 1/4" (184mm)**

<i>straight</i>		<i>curved</i>	
KM 47-526	4x16mm bite	KM 47-527	4x16mm bite
KM 47-528	6x16mm bite	KM 47-531	6x16mm bite



**BEYER RONGEUR 7" (178mm)**

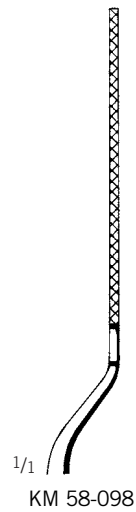
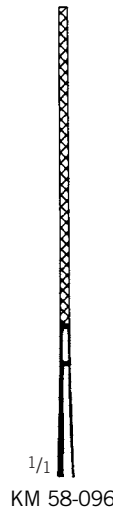
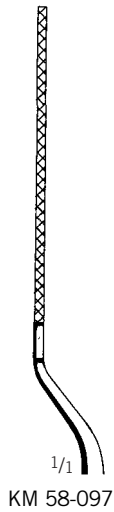
KM 47-520	KM 47-522
<i>curved</i>	<i>curved</i>
3x14mm bite	4x15mm bite



**RUSKIN RONGEUR**

KM 47-525
7 1/4" (184mm) <i>curved</i>
5x10mm bite

**BONE SAWS AND KNIVES**



**JOSEPH BONE SAW 7" (178mm)**  
 KM 58-096 straight  
 KM 58-097 bayonet left  
 KM 58-098 bayonet right



**LISTON AMPUTATION KNIFE**  
 KM 46-598 6 3/4" (171mm) blade  
 KM 46-600 8" (203mm) blade

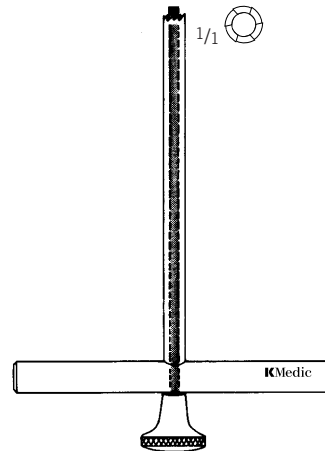


**LANGENBECK METACARPAL SAW**  
 KM 46-601 9" (229mm)



**KEYES PUNCH 4" (102mm)**

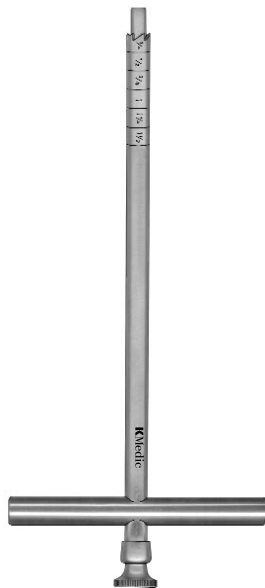
- KM 29-511 2mm      KM 29-514 5mm
- KM 29-512 3mm      KM 29-515 6mm
- KM 29-513 4mm      KM 29-517 8mm



*When removing K-Wire, use the Plug Cutter to extract a tiny cylinder of bone around the tip of the wire.*

**PLUG CUTTER**

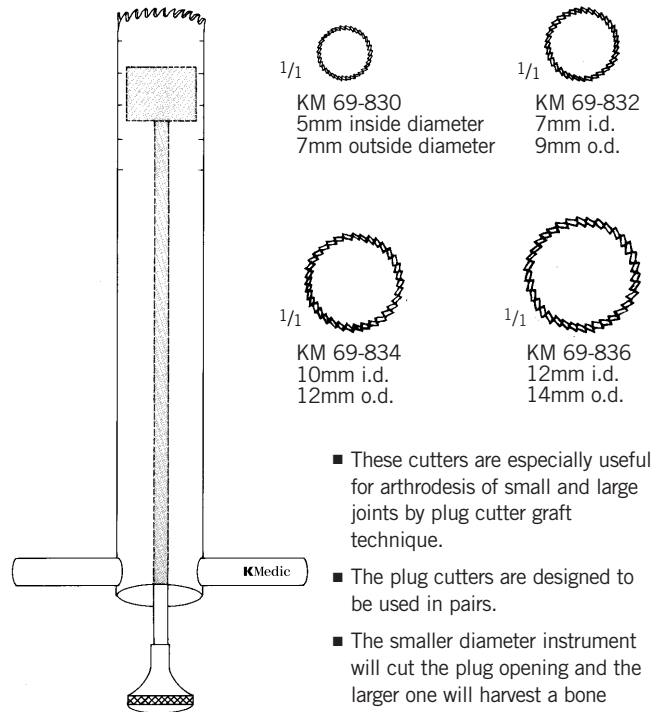
- KM 48-252
- 4 1/2" (114mm) with obturator
- 3mm inside diameter
- 5mm outside diameter



*Designed for bone biopsy. Also facilitates removal of broken bone screws.*

**MICHELE TREPHINE 7" (178mm)**

- KM 48-239 small      3mm i.d.      5mm o.d.
  - KM 48-240 medium      4mm i.d.      6mm o.d.
  - KM 48-241 large      6mm i.d.      8mm o.d.
- i.d. = inside diameter  
o.d. = outside diameter



**PLUG CUTTER 6" (152mm)**

- These cutters are especially useful for arthrodesis of small and large joints by plug cutter graft technique.
- The plug cutters are designed to be used in pairs.
- The smaller diameter instrument will cut the plug opening and the larger one will harvest a bone graft that will fit into the opening.
- The plug can then be tapped into place using the Bone Impactor (KM 69-980).

**PLASTER CAST INSTRUMENTS**

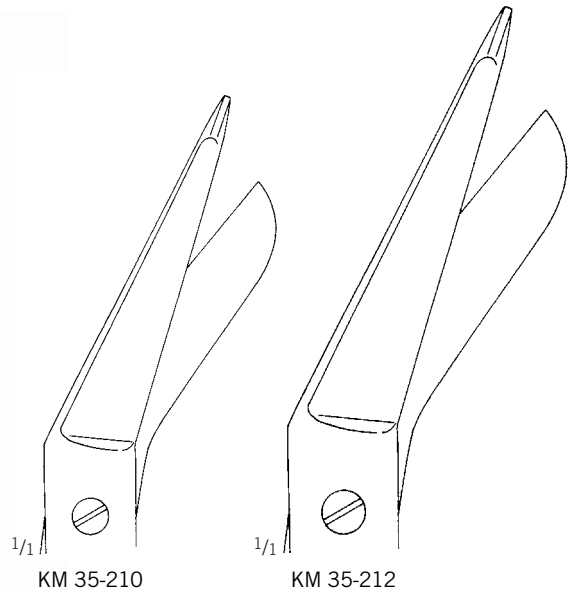
**Super-Cut Bandage Scissors**

KMedic developed these remarkably sharp scissors in response to the demands of doctors, nurses, and other O.R. personnel.

Hospital tests show that these scissors cut multiple layers of stockinette, bandages, drapes, and moleskin with ease.

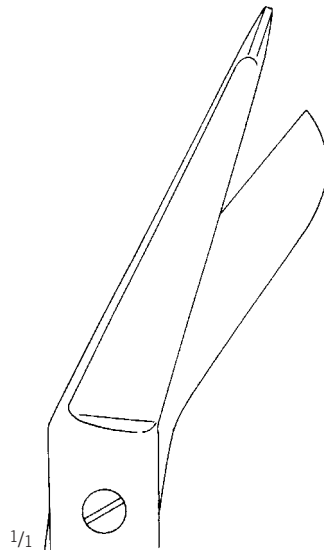
- Very little hand strength is required for cutting, putting less strain on thumb and forearm.
- Perfect cutting control because you don't have to force them to cut.
- Scissors cut faster, saving critical time in the O.R.
- Retain their sharpness longer than ordinary scissors.

**IMPORTANT NOTE:** Super-Cut Scissors should not be used to cut fiberglass or plaster splints.



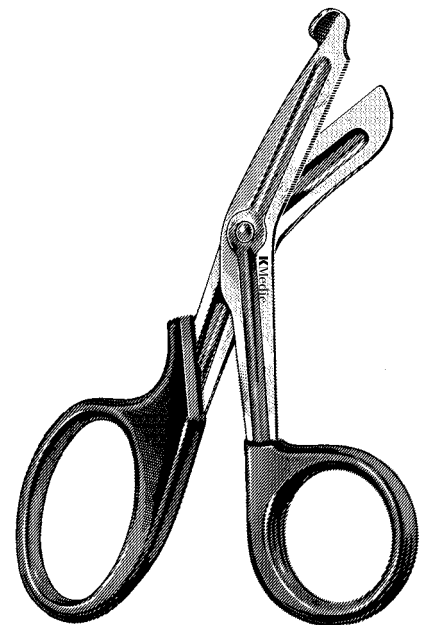
**SUPER-CUT LISTER BANDAGE SCISSORS**  
 KM 35-210 5 1/2" (140mm)      KM 35-212 7 1/4" (184mm)

*For stockinette, bandages, and drapes.*



**SUPER-CUT LISTER BANDAGE SCISSORS WITH LARGE FINGER RING**  
 KM 35-214  
 8" (203mm)

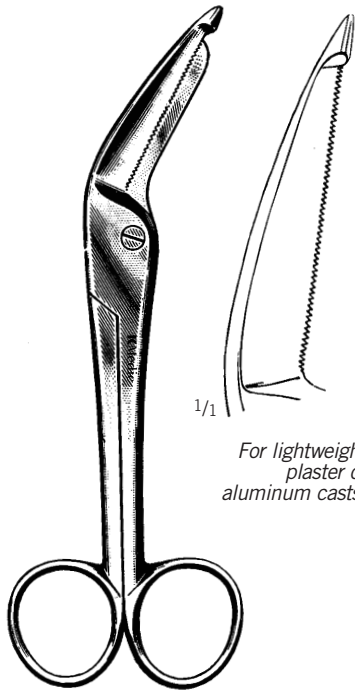
*Razor sharp scissors ideal for cutting heavy material—including: moleskin, drapes and stockinette.*  
*Not recommended for fiberglass or plaster splints.*  
*Oversized finger ring helps relieve pressure on the third metacarpal.*



**UTILITY SCISSORS** one blade serrated  
 KM 31-832 6" (152mm)      KM 31-830 7 1/2" (191mm)  
 Lister-type (not pictured)

*For light plaster and cloth.*

*With autoclavable plastic finger rings.*



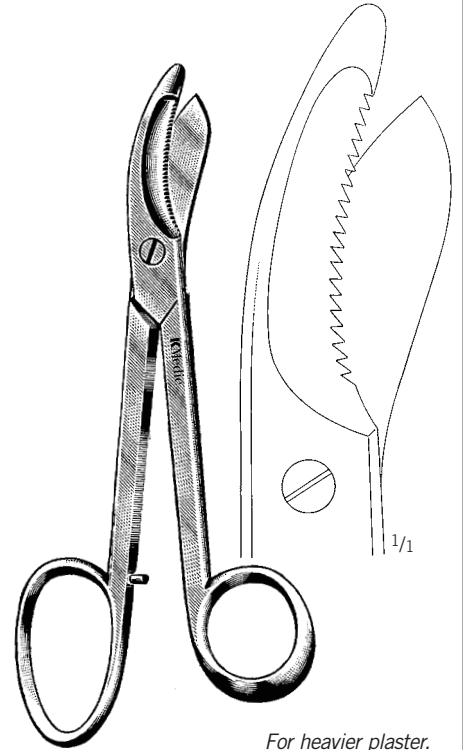
1/1  
For lightweight plaster or aluminum casts.

**HERCULES SCISSORS**  
KM 31-834  
7½" (191mm)  
one blade serrated



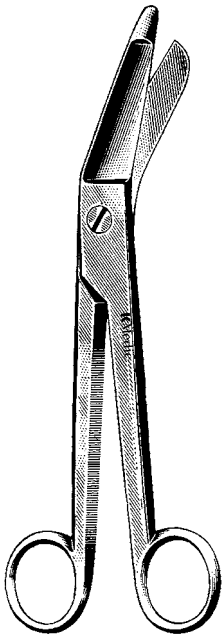
Effective for cloth or cotton wadding.

**KMEDIC UTILITY SHEARS**  
KM 31-836  
8" (203mm)  
one blade serrated



1/1  
For heavier plaster.

**BRUNS SHEARS**  
KM 46-090  
9¼" (235mm)  
one blade serrated



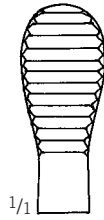
Useful for cutting tape and bandages.

**ESMARCH SHEARS**  
KM 46-060  
8" (203mm)



**REINER PLASTER KNIFE**  
KM 46-058  
7" (178mm) with stainless handle

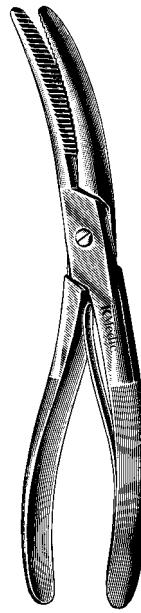
**PLASTER CAST INSTRUMENTS**



*For lightweight cast breaking and trimming.*

**PEDIATRIC CAST BREAKER**

KM 46-188  
7" (178mm)  
deep serrated tips

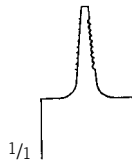
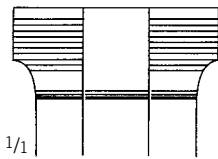
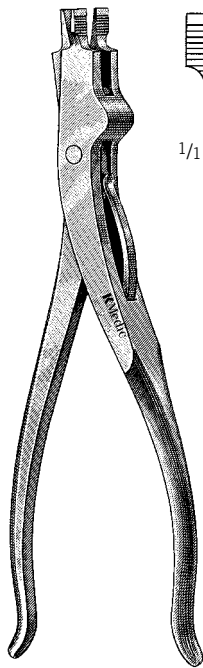


KM 46-186

*For cast removal.*

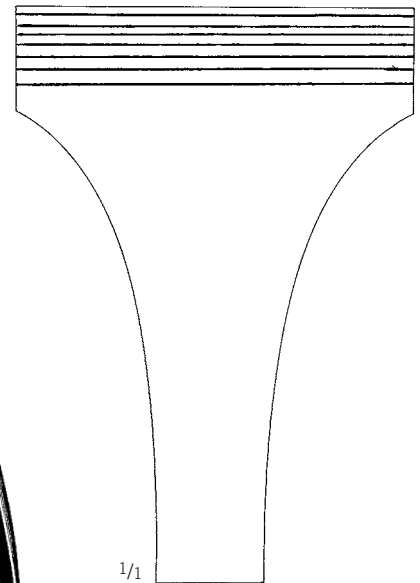
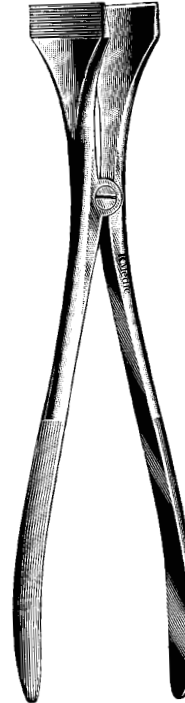
**PLASTER BREAKER WOLFF (BOEHLER)**

deep serrated tips  
KM 46-186  
7" (178mm) small



*To relieve cast pressure or for cast removal.  
One handed operation.*

**WALTON CAST SPREADER** 9" (229mm)  
KM 46-133  
**KMEDIC CAST SPREADER** 9" (229mm)  
KM 46-134



*To relieve cast pressure or for cast removal.*

**HENNIG PLASTER SPREADER**  
KM 46-138  
11" (279mm) serrated



Used to determine screw length required during internal fracture fixation (mm graduated). Snap apart for easy cleaning.



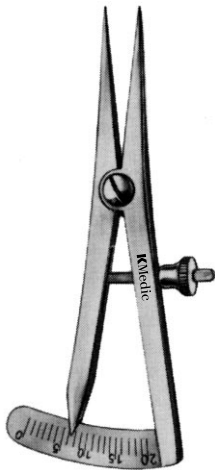
**MINI SCREW DEPTH GAUGE**  
 KM 47-934  
 4¾" (121mm)  
 up to 30mm



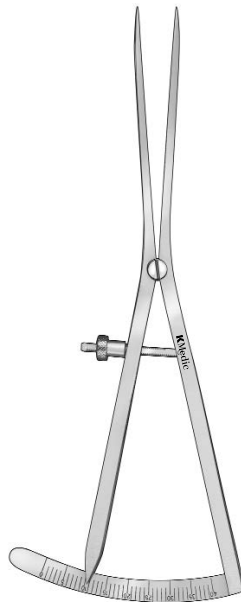
**SMALL SCREW DEPTH GAUGE**  
 KM 47-936  
 6¼" (159mm)  
 up to 50mm



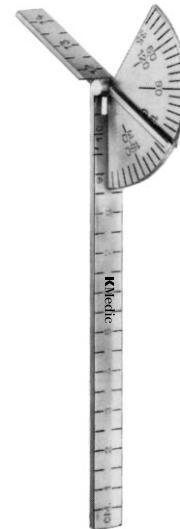
**LARGE SCREW DEPTH GAUGE**  
 KM 47-940  
 8¾" (222mm)  
 up to 100mm



**CASTROVIEJO CALIPER**  
 KM 53-040  
 3½" (89mm)  
 graduated to 20mm

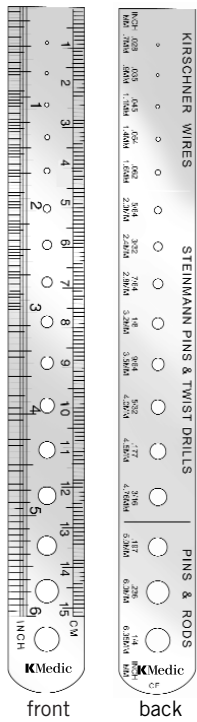


**CASTROVIEJO CALIPER**  
 KM 53-042  
 6½" (165mm)  
 graduated to 40mm



**POLK FINGER GONIOMETER**  
 KM 48-310  
 6" (152mm)  
 cm and inch graduated

**MEASURING DEVICES**



Reverse side has handy gauge to measure K-Wires, Steinmann pins, twist drills and pins and rods.

Gauge Measures  
 K-Wires .028" – .062"  
 .7mm – 1.6mm  
 Pins 5/64" – 3/16"  
 2.0mm – 4.76mm  
 Rods .197" – 1/4"  
 5.0mm – 6.35mm

**K-WIRE RULER AND PIN GAUGE**  
 KM 39-710  
 6" (152mm) length  
 inch and mm graduated



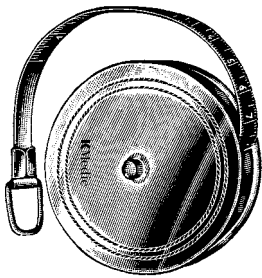
**RULER** flexible  
 inch and mm graduated

length  
 KM 39-692 6" (152mm)  
 KM 39-694 8" (203mm)  
 KM 39-698 12" (305mm)  
 KM 39-700 20" (508mm)

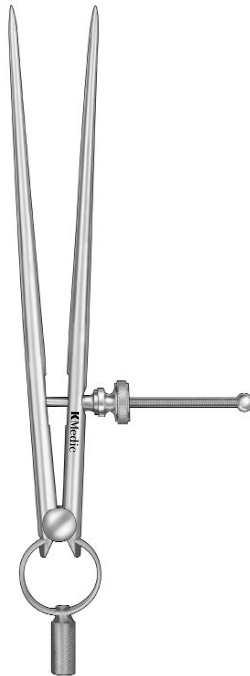


Ruler for X-rays.

**X-RAY SCALE**  
 KM 48-299  
 50cm length  
 mm graduated



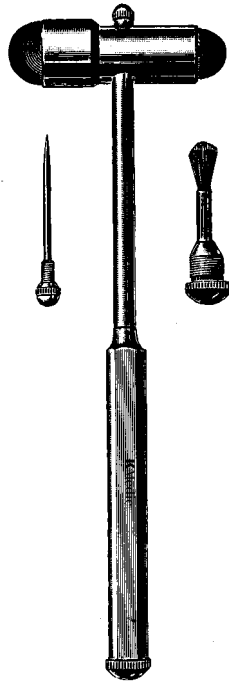
**MEASURING TAPE**  
 KM 48-313  
 linen  
 inch and cm graduated  
 up to 150cm



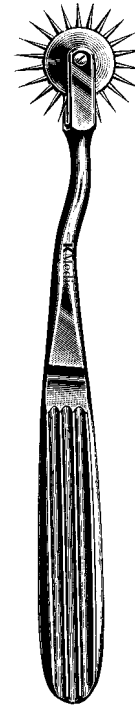
**BONE COMPASS**  
 KM 48-302  
 8" (203mm)



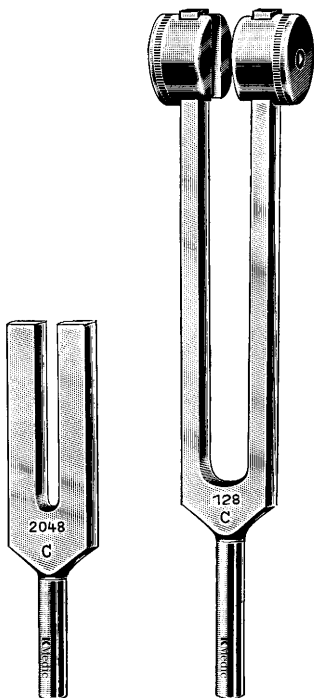
**TOWNLEY CALIPER**  
 KM 48-314  
 4" (102mm)  
 takes inside and outside  
 measurements up to 4" (10cm)



**BUCK NEUROLOGICAL HAMMER**  
 KM 28-492  
 7¾" (195mm) stainless steel  
 with brush and needle



**WARTENBERG NEUROLOGICAL PIN WHEEL**  
 KM 28-514  
 7" (178mm)



**TUNING FORK** aluminum alloy  
 KM 56-284 C-128  
 KM 56-312 C-256  
 KM 56-318 C-512  
 KM 56-330 C-1024  
 KM 56-334 C-2048  
 KM 56-342 set of five in a case



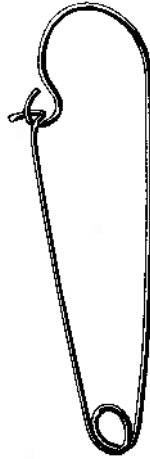
**FINGER RING CUTTER**  
 KM 29-430                      KM 29-434  
 6½" (165mm) chrome      saw blade only  
 with saw blade

**MISCELLANEOUS**

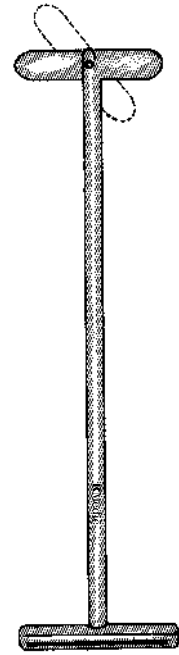
90



**INSTRUMENT CLEANING BRUSH**  
7" (178mm)  
KM 39-682                      KM 39-684  
wire                                  nylon  
set of three                      set of three



**BUNT FORCEPS HOLDER**  
KM 39-670



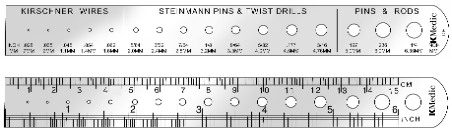
**KMEDIC FORCEPS HOLDER**  
KM 39-672                      KM 39-674  
6" (152mm)                      12" (305mm)

**NOTES**

# KMedic Wire and Pin Implants

- Precision manufactured in Germany from certified implant stainless steel.
- Longer, gently tapered points for easier penetration.
- Smoothly hand polished, causing less trauma when removed.
- K-Wires and Steinmann pins are sold six (6) to the package.

Please inquire about availability of any sizes and styles not shown in this Sourcebook.

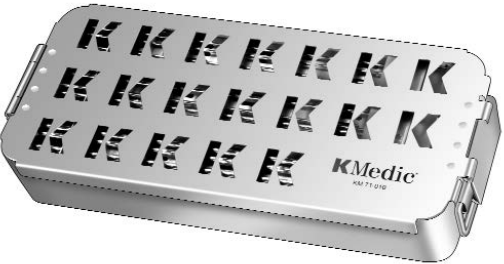
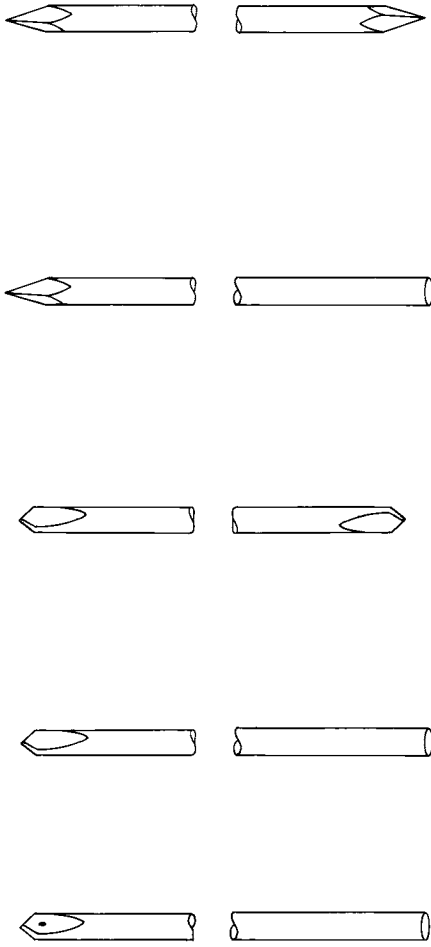


Measure K-Wires, Steinmann Pins, Twist Drills, Pins and Rods with our handy K-Wire Ruler and Pin Gauge KM 39-710. See page 88.

## KIRSCHNER WIRES SMOOTH

LENGTH	DIAMETER AND PRODUCT NUMBER				
	.028" (.7mm)	.035" (.9mm)	.045" (1.1mm)	.054" (1.4mm)	.062" (1.6mm)
<b>DOUBLE END TROCAR</b>					
4" (102mm)	KM 71-100	KM 71-101	KM 71-102	KM 71-104	KM 71-103
5" (127mm)	KM 71-105	KM 71-106	KM 71-107	KM 71-108	KM 71-109
6" (152mm)	KM 71-021	KM 71-022	KM 71-023	KM 71-024	KM 71-025
9" (229mm)	KM 71-110	KM 71-111	KM 71-112	KM 71-114	KM 71-113
12" (305mm)	KM 71-120	KM 71-121	KM 71-122	KM 71-124	KM 71-123
<b>SINGLE TROCAR round end</b>					
4" (102mm)	KM 71-130	KM 71-131	KM 71-132	KM 71-133	KM 71-134
5" (127mm)	KM 71-170	KM 71-171	KM 71-172	KM 71-174	KM 71-175
9" (229mm)	KM 71-150	KM 71-151	KM 71-152	KM 71-154	KM 71-153
12" (305mm)	KM 71-160	KM 71-161	KM 71-162	KM 71-164	KM 71-163
<b>DOUBLE END DIAMOND</b>					
4" (102mm)	KM 71-200	KM 71-201	KM 71-202	KM 71-203	KM 71-204
5" (127mm)	KM 71-205	KM 71-206	KM 71-207	KM 71-208	KM 71-209
6" (152mm)	KM 71-030	KM 71-031	KM 71-032	KM 71-034	KM 71-033
9" (229mm)	KM 71-210	KM 71-211	KM 71-212	KM 71-214	KM 71-213
<b>SINGLE DIAMOND round end</b>					
4" (102mm)	KM 71-230	KM 71-231	KM 71-232	KM 71-233	KM 71-234
9" (229mm)	KM 71-240	KM 71-241	KM 71-242	KM 71-244	KM 71-243
12" (305mm)	—	KM 71-251	KM 71-252	KM 71-254	KM 71-253
<b>SUTURE PASSER SINGLE DIAMOND with suture hole</b>					
9" (229mm)	—	—	KM 71-262	—	KM 71-263

Drawings shown on this page are not actual size.



Sterilize K-Wires and Steinmann Pins with our K-Wire and Pin Sterilization Case KM 71-010. See page 94.

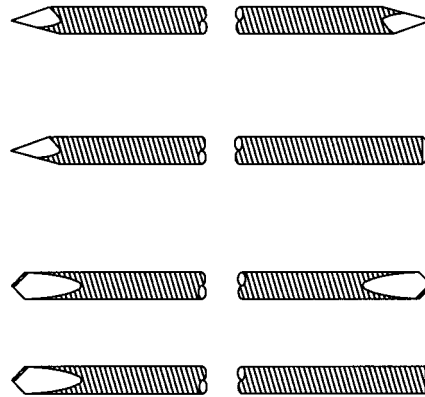


Bend K-Wire up to .062" in diameter easily with our Gratloch™ Wire Bender KM 48-370. See page 97.

# KIRSCHNER WIRE AND STEINMANN PINS

## KIRSCHNER WIRE FULLY THREADED

LENGTH	DIAMETER AND PRODUCT NUMBER		
	.035" (.9mm)	.045" (1.1mm)	.062" (1.6mm)
<b>DOUBLE END TROCAR</b>			
6" (152mm)	—	—	KM 71-323
9" (229mm)	KM 71-301	KM 71-302	KM 71-303
<b>SINGLE TROCAR</b>			
6" (152mm)	—	—	KM 71-293
9" (229mm)	KM 71-304	—	KM 71-310
<b>DOUBLE END DIAMOND</b>			
9" (229mm)	—	KM 71-312	KM 71-313
<b>SINGLE DIAMOND</b>			
9" (229mm)	KM 71-314	KM 71-315	KM 71-307

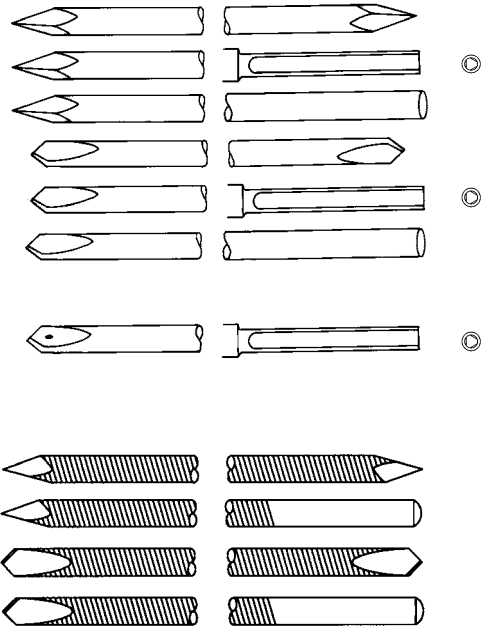


## STEINMANN PINS

Steinmann Pins are sold six (6) per package

*Drawings shown on this page are not actual size.*

<b>SMOOTH, 9" (229mm)</b>	$\frac{5}{64}"$ (2.0mm)	$\frac{3}{32}"$ (2.4mm)
DOUBLE END TROCAR	KM 71-450	KM 71-453
SINGLE TROCAR 3 shank end	KM 71-480	KM 71-483
SINGLE TROCAR round end	KM 71-510	KM 71-513
DOUBLE END DIAMOND	KM 71-600	KM 71-603
SINGLE DIAMOND 3 shank end	KM 71-630	KM 71-633
SINGLE DIAMOND round end	KM 71-660	KM 71-663
SINGLE DIAMOND with suture passer hole 3 shank end	KM 71-880	KM 71-883
<b>FULLY THREADED, 9" (229mm)</b>	$\frac{5}{64}"$ (2.0mm)	$\frac{3}{32}"$ (2.4mm)
DOUBLE END TROCAR	KM 71-750	KM 71-753
SINGLE TROCAR round end	KM 71-770	KM 71-773
DOUBLE END DIAMOND	KM 71-730	KM 71-733
SINGLE DIAMOND round end	KM 71-700	KM 71-703



## CERCLAGE WIRE

10 meters in length

KM #	DIAMETER	APPROX. GAUGE	KM #	DIAMETER	APPROX. GAUGE
KM 72-102	0.2mm	36	KM 72-108	0.8mm	21
KM 72-103	0.3mm	30	KM 72-109	0.9mm	20
KM 72-104	0.4mm	27	KM 72-110	1.0mm	19
KM 72-105	0.5mm	25	KM 72-112	1.2mm	18
KM 72-106	0.6mm	23	KM 72-115	1.5mm	17
KM 72-107	0.7mm	22			



**K-WIRE DISPENSER 6¼"**

KM#	LENGTH	DIAMETER	QTY HELD
KM 71-001	up to 6" (152mm)	.028" (0.7mm)	100
KM 71-002	up to 6" (152mm)	.035" (0.9mm)	50
KM 71-003	up to 6" (152mm)	.045" (1.1mm)	40
KM 71-004	up to 6" (152mm)	.054" (1.4mm)	25
KM 71-006	up to 6" (152mm)	.062" (1.6mm)	20

- Stores, sterilizes, and dispenses one size at a time.
- Sharp points are protected by silicone insert in cap.
- To avoid injury, load wire with blunt end down.
- Hexagonal shape of cap prevents unwanted movement of dispenser.
- Diameter is marked for easy identification.
- Perforation allows for proper sterilization.

**K-WIRE DISPENSER 12¼"**

KM 71-012	up to 12" (305mm)	.035" (0.9mm)	50
KM 71-013	up to 12" (305mm)	.045" (1.1mm)	40
KM 71-014	up to 12" (305mm)	.054" (1.4mm)	25
KM 71-016	up to 12" (305mm)	.062" (1.6mm)	20

**STEINMANN PIN DISPENSER 12¼"**

KM 71-017	up to 12" (305mm)	5/64" (2.0mm)	10
KM 71-019	up to 12" (305mm)	3/32" (2.4mm)	5



KM 71-001 – KM 71-006 For K-Wire up to 6" (152mm) long. Stainless steel cap end.



KM 71-012 – KM 71-019 For K-Wire and pins up to 12" (305mm) long. Plastic cap end.

**VICKERS K-WIRE DISPENSER™**

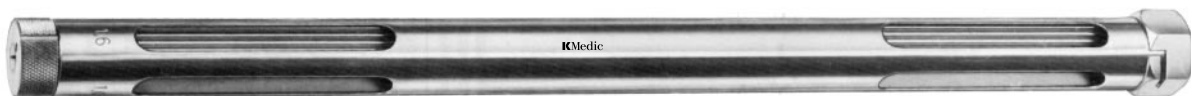
	LENGTH	CHAMBER #1		CHAMBER #2		CHAMBER #3		CHAMBER #4	
		DIAMETER	QTY HELD	DIAMETER	QTY HELD	DIAMETER	QTY HELD	DIAMETER	QTY HELD
KM 46-542	4" (102mm)	.028" (0.7mm)	60	.035" (0.9mm)	40	.045" (1.1mm)	30	.062" (1.6mm)	18
KM 46-538	12" (305mm)	.028" (0.7mm)	60	.035" (0.9mm)	40	.045" (1.1mm)	30	.062" (1.6mm)	18
KM 46-539	12" (305mm)	.070" (1.8mm)	15	5/64" (2.0mm)	12	.086" (2.2mm)	10	3/32" (2.4mm)	8

\*Note: For Steinmann pins

- Easily stores, sterilizes, and dispenses four different size wires.
- Dial on bottom allows for dispensing of one size at a time.
- To avoid injury, load wire with blunt end down.
- Dial can be locked to avoid accidental dispensing.
- Clearly marked chambers help to avoid mix-up.
- Patented dispenser is available exclusively from KMedic.



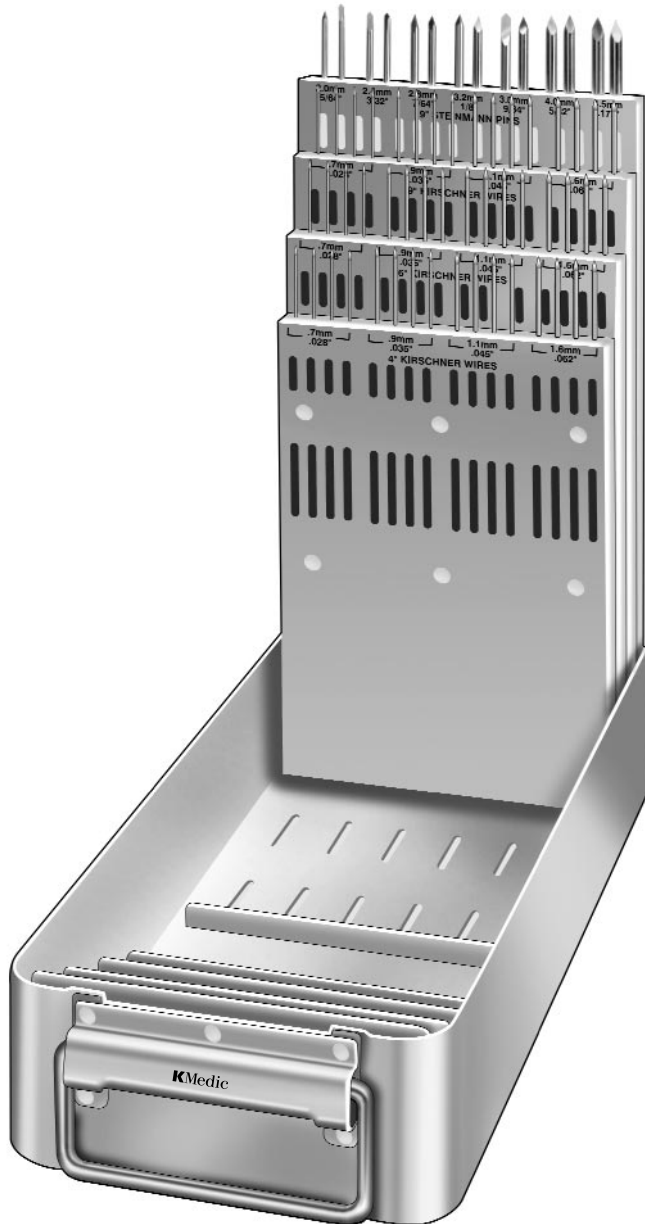
KM 46-542 For 4" (102mm) K-Wire.



KM 46-538 and KM 46-539 For 12" (305mm) K-Wire.

## K-Wire and Steinmann Pin Sterilization Case

Designed to provide easy access and identification.



The KMedic K-Wire and Steinmann Pin Sterilization Case holds popular 4" (102mm), 6" (152mm) and 9" (229mm) K-Wires and 9" (229mm) Steinmann Pins.

Accommodates four each of the following K-Wire diameters:

.028" (.7mm)  
.035" (.9mm)  
.045" (1.1mm)  
.062" (1.6mm)

Accommodates two each of the following Steinmann Pin diameters:

$\frac{5}{64}$ " (2.0mm)  
 $\frac{3}{32}$ " (2.4mm)  
 $\frac{7}{64}$ " (2.8mm)  
 $\frac{1}{8}$ " (3.2mm)  
 $\frac{9}{64}$ " (3.5mm)  
 $\frac{5}{32}$ " (4.0mm)  
.177" (4.5mm)

- Removable lid fits under case—taking up less room in the O.R.
- Nylon coated brackets prevent metal-to-metal contact—protecting sharp ends.
- Contents are held in place when closed—preventing shifting.
- Secure locking side brackets help prevent accidental opening.
- Handles at each end for easy transport.
- Anodized aluminum case is lightweight and built to withstand abuse.
- Fully autoclavable to 270°F.



Case in closed position

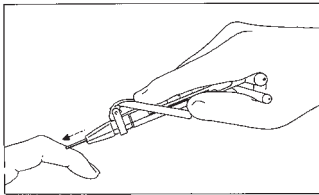
### K-WIRE AND STEINMANN PIN STERILIZATION CASE

KM 71-010  
11 $\frac{3}{4}$ " x 5 $\frac{1}{4}$ " x 2" (closed)  
(298mm x 133mm x 51mm)



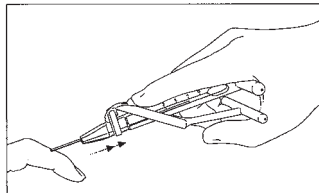
**Vickers Easidriver™**

Now you can drive, bend and pull K-Wire for a fraction of the cost of power equipment.



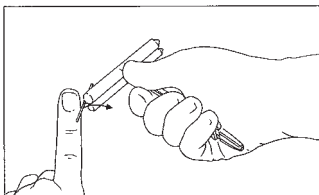
**NO MANUAL DEVICE HAS EVER ACHIEVED THIS FUNCTION**

For years, surgeons have sought a simple pin driver that could actually be fully controlled with one hand. The Vickers Easidriver™ leaves the other hand free to manipulate tissue, leaving the patient in better hands.



**IDEAL BACK UP UNIT FOR OFFICE AND HOSPITAL**

What do you use when your power equipment fails during surgery? Now you have the handy Vickers Easidriver™. Without loss of precious time, it is ready for use. In cases where power equipment is not indicated or available, the Vickers can become your primary driver, allowing for feel and control that power units don't offer.



Dr. Vickers, who developed the instrument, is a specialist in hand surgery and the Chairman of the Instrumentation and Equipment Committee of the International Federation of Societies for Surgery of the Hand.



**VICKERS EASIDRIVER™**  
KM 46-540, 5½" (140mm)

- Single handed operation
- Chuckless
- Depthscale
- Wire bending facility
- No maintenance
- No set-up
- Autoclavable
- For wire from .028" to .062" (0.7mm to 1.6mm)

*For insertion and removal of Steinmann Pins. Includes chuck key.*

*Cannulation accepts wires and pins up to .236" (6.0mm)*

*Chuck accepts wires and pins up to ¼" (6.35mm)*



**STEINMANN PIN CHUCK**  
KM 48-374  
4" (102mm)  
fully cannulated

*No more lost keys! Keyless chuck for insertion and removal of Steinmann Pins.*

*Cannulation accepts wires and pins up to .236" (6.0mm)*

*Chuck accepts wires and pins up to ¼" (6.35mm)*



**UNIVERSAL CHUCK WITH T-HANDLE**  
KM 47-903 4" (102mm) fully cannulated  
KM 47-901 4½" (114mm) fully cannulated with reverse lock

**WIRE AND PIN DRIVERS AND BENDERS**

*Aids in bending pins and wires.*



**WIRE AND PIN BENDER**

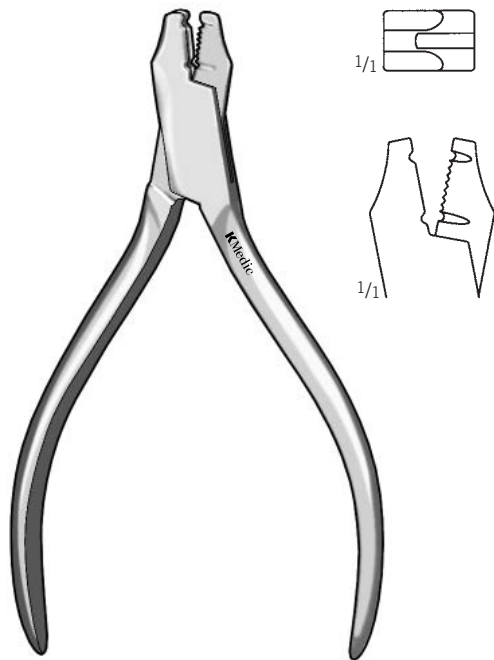
KM 48-372  
6" (152mm)  
Accepts wires and pins up to 1/8" (3.2mm)

*Cannulation accepts wires and pins up to 1/2" (4.0mm)*



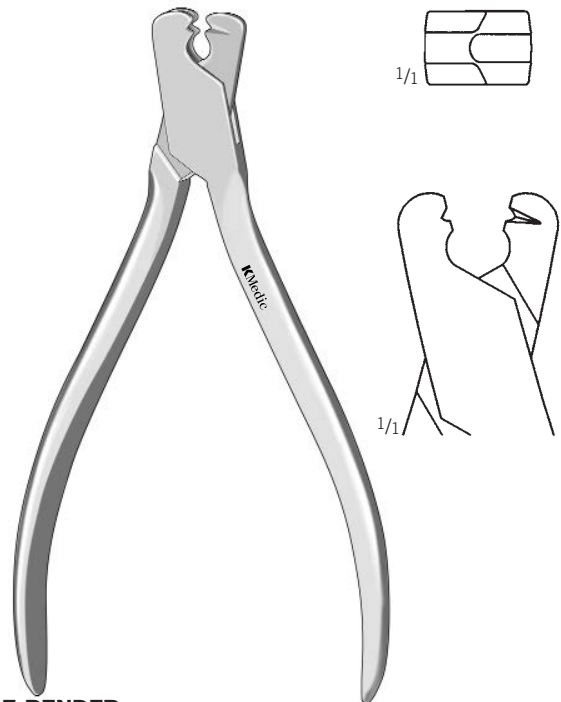
**PIN INSERTER/EXTRACTOR WITH T-HANDLE**

KM 49-820  
7" (178mm)  
fully cannulated



**K-WIRE AND PLATE BENDER**

KM 49-724  
4 3/4" (121mm)  
Bends mini plates and up to 1.1mm (.045") K-Wire to 90° angle  
3 prong



**K-WIRE BENDER**

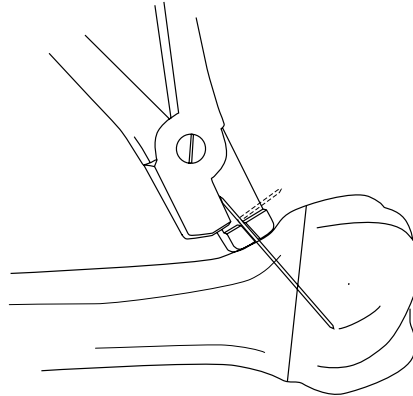
KM 49-802  
5 1/2" (140mm)  
Bends up to 1.6mm (.062") K-Wire to 90° angle  
3 prong

## Gratloch™ Wire Bender

Bend .062" K-Wire single-handedly without sacrificing stability



**GRATLOCH™ WIRE BENDER**  
 KM 48-370  
 7½" (191mm)  
 maximum capacity .062" (1.6mm)  
 special hardened, wear-resistant  
 stainless tool steel  
 U.S. Patent #5,314,431



The Gratloch™ Wire Bender can stabilize and bend a Kirschner wire simultaneously. K-Wires can be bent close to the bone single-handedly without sacrificing fracture or osteotomy stability.

To bend wire:

1. After the insertion of K-Wire in the bone, cut the wire, leaving a piece of ½" (13mm) to ¾" (19mm) in length.
2. Insert the K-Wire into angled slot of Gratloch™ Bender as close to the bone as possible.
3. Press handles to bend wire (.062" wire will bend 90 degrees, smaller diameters will bend slightly less than 90 degrees).
4. Additional features of the Gratloch™ Wire Bender are two angled cannulations at the proximal end of each handle for flush bending of wire (.045" and .062").



**BUNNELL DRILL**  
 KM 48-392  
 5¾" (146mm) cannulated  
 3-jaw stainless Jacobs chuck  
 Includes key chuck  
 Accepts wires and pins up to 4.0mm (5/32").  
 Store chuck key in handle. Body is made of aluminum.



**RALKS DRILL**  
 KM 48-390  
 6" (152mm) cannulated  
 3-jaw stainless chuck  
 Includes key chuck  
 Accepts wires and pins up to 6.35mm (¼").  
 Offset handle. Body is made of aluminum.

## WIRE AND PIN CUTTERS

### About KMedic Wire and Pin Cutters

In the past, surgeons have often had to rely on hardware store quality cutters made with inferior metals that can contaminate and ruin stainless steel instrumentation. Now KMedic can meet all of your wire and pin cutting requirements with our complete line of stainless steel cutting instruments.

**Made from stainless steel** – All of our wire cutters are engineered to meet the demanding needs of cutting rods, pins, cables and wires in the Operating Room. Jaws are made from the toughest specially-tempered tool steel or have tungsten carbide inserts.

**More cutting power** – Cutters designed with double action give you more cutting power and help absorb the shock of wire cutting. For the surgeon there is better control and less fatigue.

**Most extensive selection** – We offer more jaw and handle styles than any other instrument company.

**Note on carbide instruments** – Instruments with carbide inserts can be replaced, however, welded hardened jaws can not be replaced.

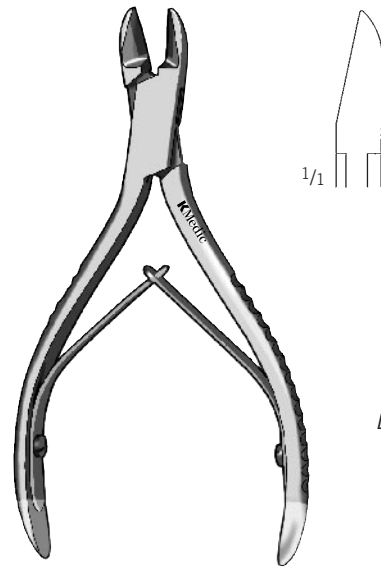
#### To achieve the best results when cutting wires and pins, follow these simple steps:

- Choose the appropriate cutter for the wire diameter you want to cut.
- Do not exceed the maximum capacity marked on each cutter.
- Cut wire in the middle of the jaw—not on the tip or in the corner.
- Keep the jaw at right angles to the piece being cut. Do not twist or turn cutter.

*Caution:* Be sure to protect patient and O.R. personnel from flying particles (especially the eyes). The harder the metal, the farther the pieces can fly.

#### Important note on maximum capacities

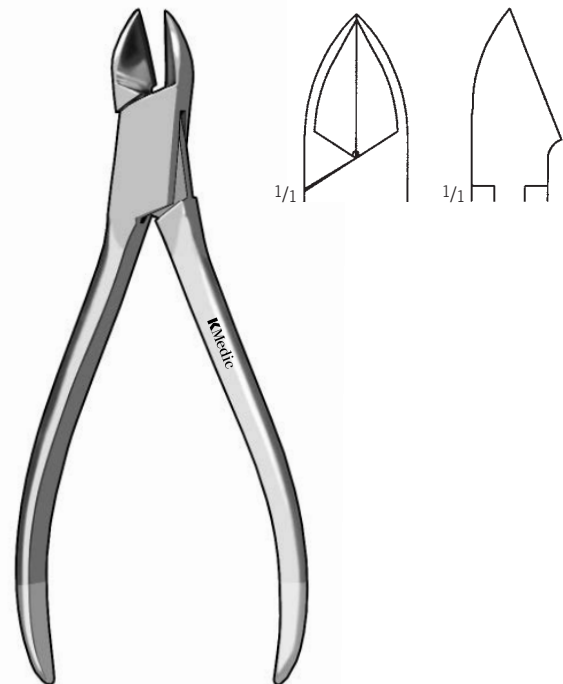
All maximum capacities noted in this Sourcebook are based on tests using standard strength KMedic implant material. Cutting material which exceeds our recommended maximum capacities may damage or shorten the life of cutting edges and voids the instrument warranty. Please check the size of the material and the maximum capacity of the instrument before using. If you're not sure whether our cutter can handle your material, give us a call (800) 955-0559.



*Delicate side-cutting jaws with carbide inserts.*

#### DELICATE WIRE CUTTER

KM 46-622  
4 3/4" (121mm) side cutting  
with carbide inserts  
maximum capacity .028" (0.7mm)



#### K-WIRE SIDE CUTTER

KM 49-734  
6" (152mm) side cutting  
welded hardened jaws  
maximum capacity .045" (1.1mm)

Notch for cutting cerclage wire up to 1mm

**WIRE CUTTING SCISSORS** 4¾" (121mm)  
 KM 35-198      KM 35-200  
 one serrated blade,      one serrated blade,  
 angular                      angular, carbide

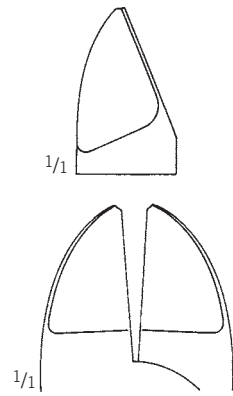
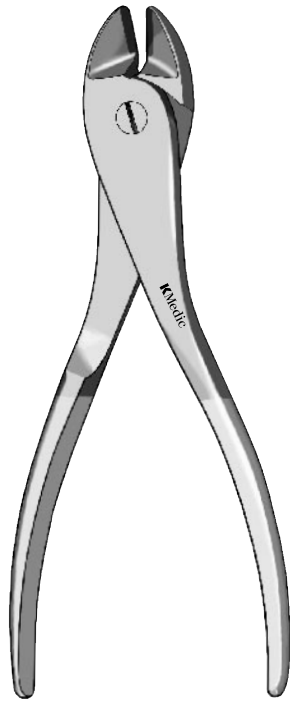
**K-WIRE END CUTTER**  
 KM 49-735  
 5½" (140mm) end cutting  
 maximum capacity .045" (1.1mm)

**DIAMOND PIN CUTTER**  
 KM 46-651  
 6¼" (159mm) end cutting  
 maximum capacity 5/64" (2.0mm)

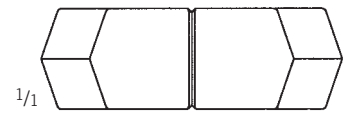
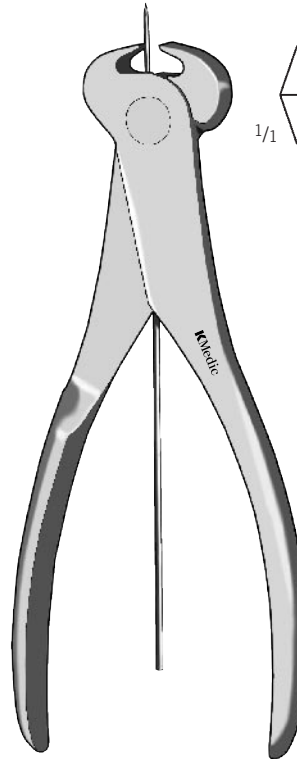
Disassembles easily for cleaning.

**END CUTTER**  
 KM 46-649  
 6" (152mm) end cutting  
 welded hardened jaws  
 maximum capacity .062" (1.6mm)

# WIRE AND PIN CUTTERS

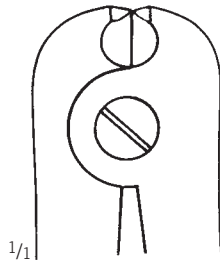
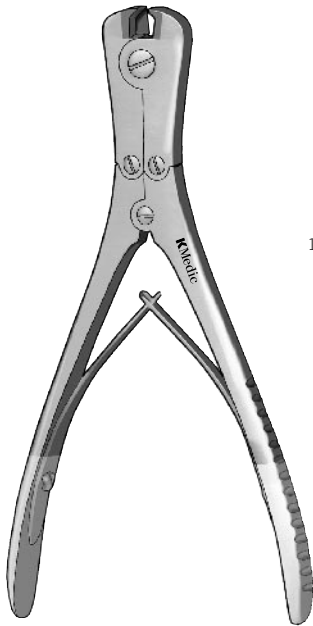


**SIDE CUTTER**  
 KM 46-621  
 7" (178mm) side cutting  
 welded hardened jaws  
 maximum capacity .062" (1.6mm)



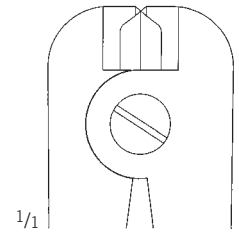
*Cannulation allows you to slide the cutter over the inserted wire. The piece cut off will be held safely inside the channel.*

**CANNULATED PIN CUTTER**  
 KM 46-647  
 7½" (191mm) end cutting  
 maximum capacity .062" (1.6mm)

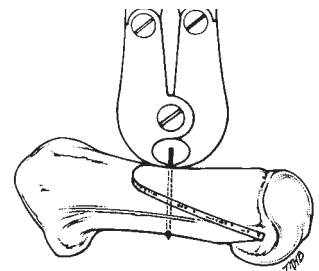


*The smooth double action combined with the versatile jaw design make this cutter a favorite one with many surgeons.*

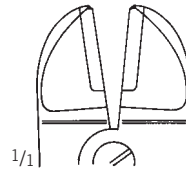
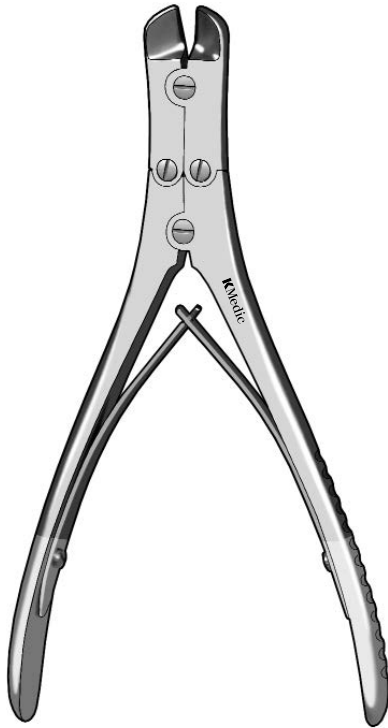
**FRONT AND SIDE WIRE CUTTER**  
 KM 46-625  
 7" (178mm) front and side cutting  
 with carbide inserts, double action  
 maximum capacity .062" (1.6mm)



*This improved version of our Front and Side Cutter cuts flush to the bone like no other wire cutter. This is a big advantage in buried wire procedures.*



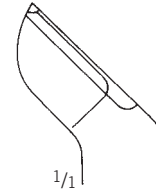
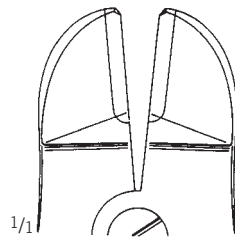
**FLUSH WIRE CUTTER**  
 KM 46-631  
 7" (178mm) front and side cutting  
 with carbide inserts, double action  
 maximum capacity .062" (1.6mm)



*Narrow jaw makes this cutter a favorite with surgeons.*

**DOUBLE ACTION WIRE CUTTER**

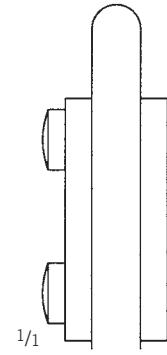
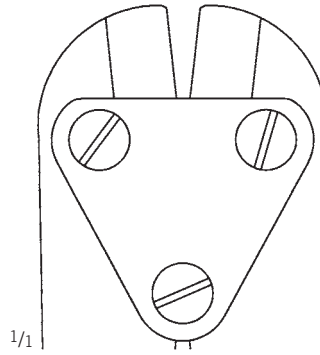
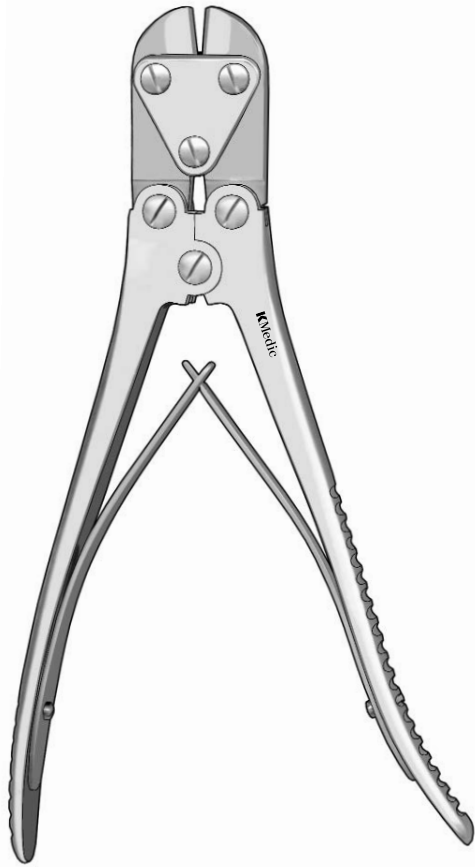
KM 46-623  
7" (178mm) angled, side cutting  
with carbide inserts  
maximum capacity .062" (1.6mm)



**DOUBLE ACTION WIRE CUTTER**

KM 46-624  
8½" (216mm) angled, side cutting  
with carbide inserts  
maximum capacity ⅜" (2.4mm)

**PLATE CUTTER AND PLIERS**



**PLATE CUTTING FORCEPS**  
 KM 47-932  
 9½" (241mm)  
 for cutting stainless steel  
 mini plates up to 1mm

**About KMedic Pliers**

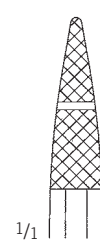
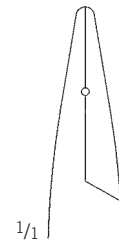
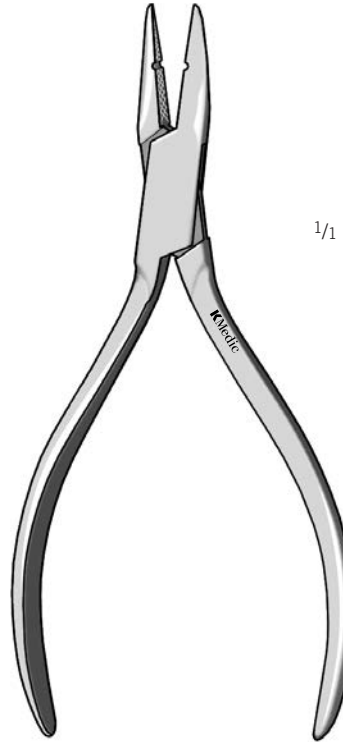
We manufacture a wide range of stainless steel pliers. Whether you are bending delicate 0.2mm cerclage wire or removing a 3.2mm Steinmann Pin, we make a pair of pliers to handle the job.

**Quality Assurance**

Every KMedic instrument is made to exact specifications. Much of our time is spent assuring the quality of the products we sell. The KMedic name does not go on any instrument that fails to pass our tough Quality Assurance Standards. We know our reputation depends on providing a quality product that will perform consistently for years.

**Value**

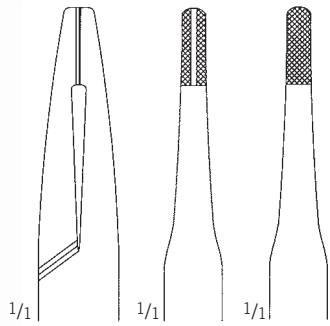
They are built to last! Our instruments are made from the finest surgical grade stainless steel. Unlike inferior "hardware store" quality, our pliers won't chip or contaminate fine surgical instruments.



*Delicate needle nose  
 jaws specifically  
 designed to handle  
 cerclage wire. Jaw  
 tapers to 1mm.*

**NEEDLE NOSE PLIERS**  
 KM 48-242  
 5½" (140mm) delicate

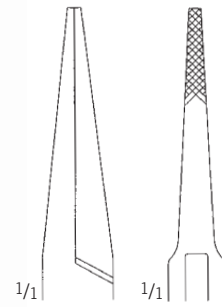




*Tungsten carbide inserts and grooved opposing jaw design grip small pins securely. Small size is well suited for hand procedures. Jaws are 3mm at tip.*

**PIN PULLING PLIERS**

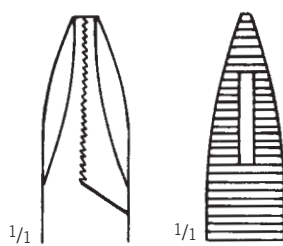
KM 46-578  
5½" (140mm) with tungsten carbide inserts  
3mm tip



*Delicate jaw tapers to 2mm. Made to twist and bend cerclage wire.*

**FLAT NOSE PLIERS**

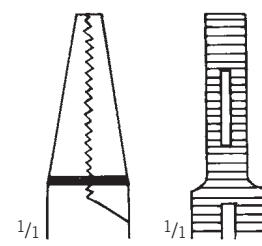
KM 48-248  
6" (152mm) delicate  
2mm tip  
for cerclage wire



*Jaw tapers to 2mm making it easier to get close to the bone to remove K-Wires.*

**NEEDLE NOSE PLIERS**

KM 48-245  
5½" (140mm)  
2mm tip

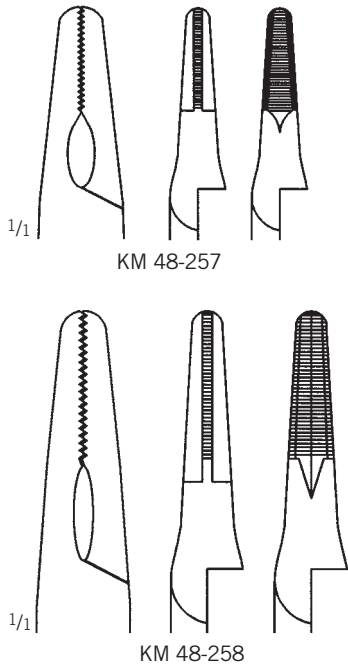


*5mm tip can grasp larger Steinmann Pins and K-Wires. Ideal for light use.*

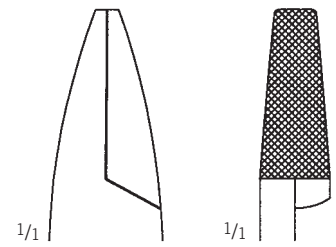
**FLAT NOSE PLIERS**

KM 48-246  
5½" (140mm) broad  
5mm tip

**PLIERS**

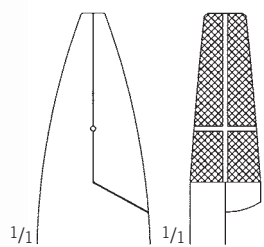
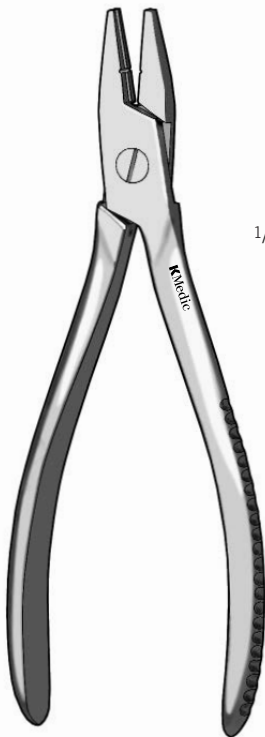


**K-WIRE EXTRACTION PLIERS** with screw lock  
 KM 48-257 5" (127mm), 3mm tip  
 KM 48-258 7" (178mm), 4mm tip



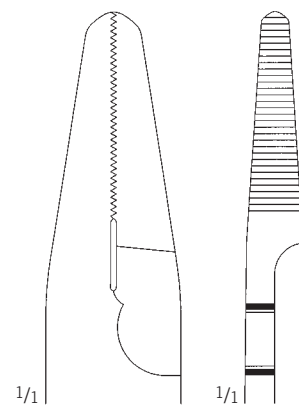
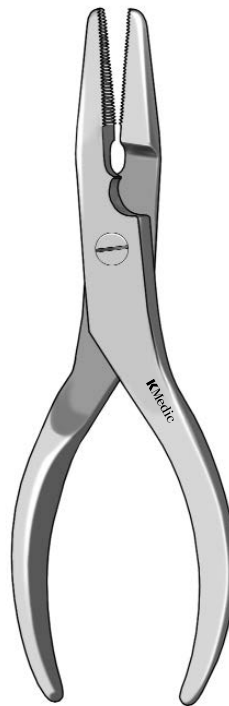
**FLAT NOSE K-WIRE PLIERS**  
 KM 48-256  
 7" (178mm)  
 6mm tip

*Multi-purpose plier with flat jaws that taper to 6mm for pulling K-Wire.*



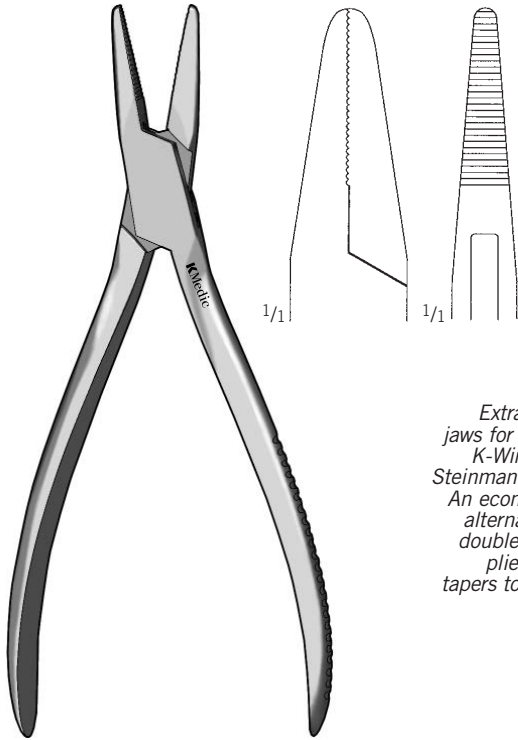
*Multi-purpose plier with flat jaws that taper to 6mm for pulling K-Wire. Side groove for cerclage wire.*

**FLAT NOSE K-WIRE PLIERS** with grooves  
 KM 48-254  
 7" (178mm)  
 6mm tip



**FLAT NOSE PLIERS**  
 KM 48-243  
 6½" (165mm)  
 3.5mm tip

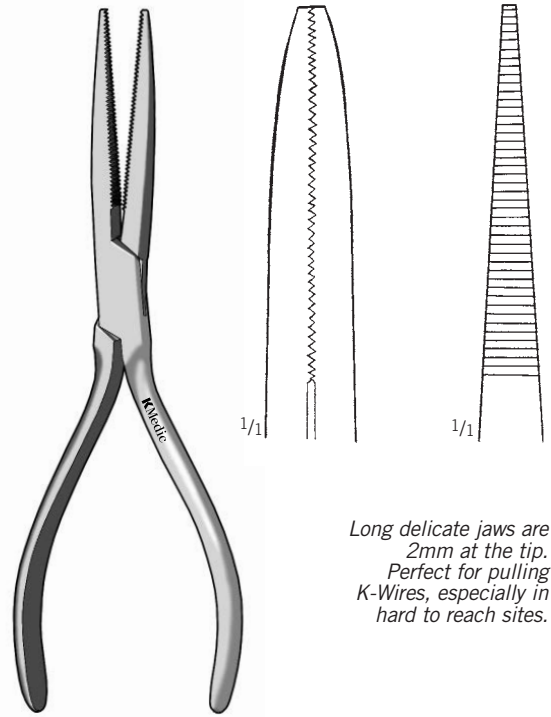
*Combination plier and cutter. Cuts all sizes (0.2mm to 1.5mm) of cerclage wire. Jaw tapers to 3.5mm.*



*Extra heavy jaws for pulling K-Wires and Steinmann Pins. An economical alternative to double action pliers. Jaw tapers to 3mm.*

**NARROW NOSE WIRE PULLING FORCEPS**

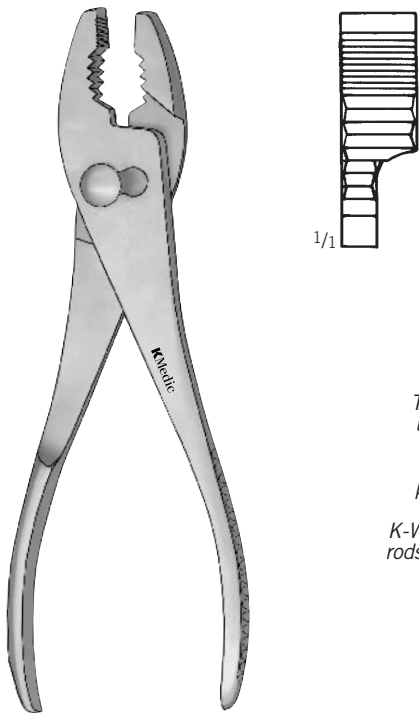
KM 48-253  
7½" (191mm)  
3mm tip



*Long delicate jaws are 2mm at the tip. Perfect for pulling K-Wires, especially in hard to reach sites.*

**LONG JAW NEEDLE NOSE PLIERS**

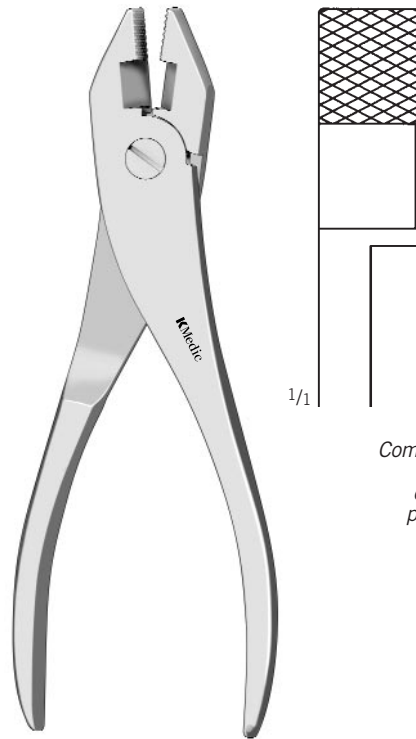
KM 48-250  
7" (178mm) parallel grooved jaws  
jaw length: 2¼" (57mm)  
2mm tip



*Traditional design utility pliers have adjustable jaws. Good all purpose plier for handling Steinmann Pins, K-Wires, screws and rods. 10mm jaw tip.*

**SLIP JOINT PLIERS**

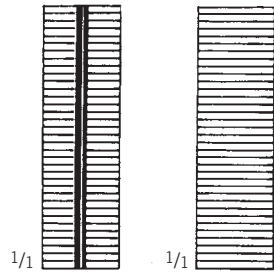
KM 48-262  
8" (203mm)  
10mm tip  
maximum opening 2" (51mm)



*Combination pliers and K-Wire Cutter. An economical general purpose instrument.*

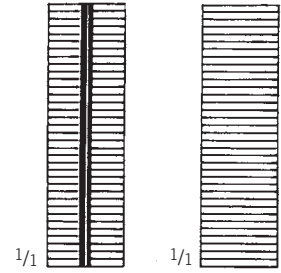
**LINEMAN PLIERS with cutting edge**

KM 48-259  
8½" (216mm) side cutting  
maximum capacity .062" (1.6mm)



*Parallel grooved  
10mm jaws provide  
enormous gripping  
power. Ideal for  
pin removal.*

**PARALLEL PLIERS**  
KM 48-604  
7" (178mm)  
10mm tip  
maximum opening 1/2" (13mm)



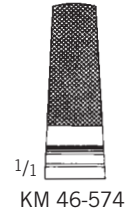
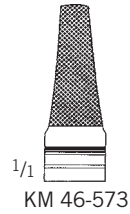
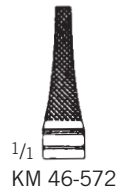
*Combination pliers and  
wire cutter has all the  
benefits of our Parallel  
Pliers plus a cutting  
jaw for K-Wires up to  
.062" (1.6mm).*

**PARALLEL PLIERS with cutter**  
KM 48-605  
7" (178mm)  
10mm tip  
maximum opening 1/2" (13mm)  
maximum capacity .062" (1.6mm)



*Heavy duty jaws lock  
securely onto pins.  
Adjustment screw for  
easy control of jaw  
opening. One-handed  
quick release self-  
locking lever.*

**SMALL LOCKING PLIERS**  
KM 48-600  
6 3/4" (171mm)  
tip width 8mm  
maximum opening 1" (25mm)



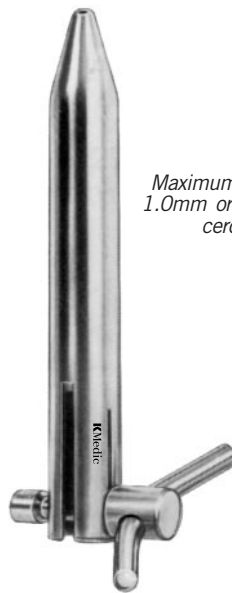
- Recommended for heavy use. Double action and finely serrated carbide tips combine to provide a powerful grip on K-Wires and pins.
- 2mm tip is ideal for removing K-Wire up to 0.62mm from small, hard-to-reach sites.
- 4mm and 6mm jaws are ideal for grasping and pulling all sizes of K-Wires and pins.

**DOUBLE ACTION WIRE EXTRACTION PLIERS 7" (178mm)**  
 KM 46-572 2mm delicate jaw, carbide inserts  
 KM 46-573 4mm jaw, carbide inserts  
 KM 46-574 6mm jaw, carbide inserts



*Cannulation allows for easy feeding of wire around the bone.*

**WIRE PASSER (CANNULATED)**  
 KM 48-386 7" (178mm) 45mm diameter  
 KM 48-388 9 1/2" (241mm) 70mm diameter



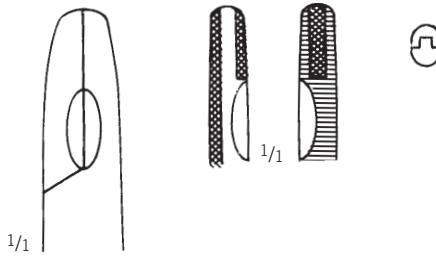
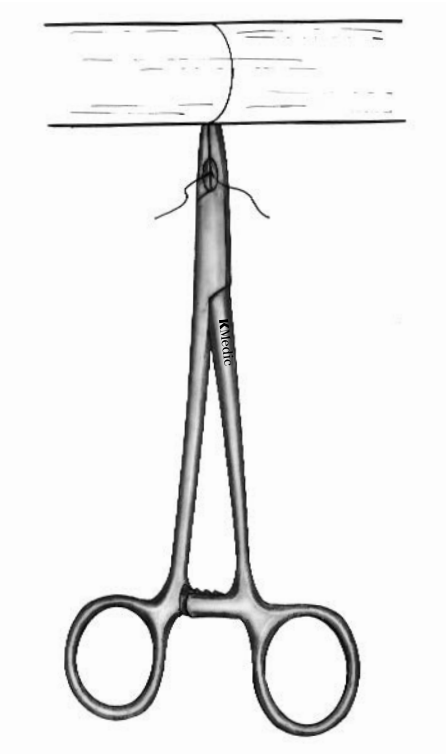
*Maximum capacity: 1.0mm or 19 gauge cerclage wire.*

**WIRE TIGHTENER**  
 KM 46-618  
 4 3/4" (121mm)



*Maximum capacity: 1.5mm or 17 gauge cerclage wire.*

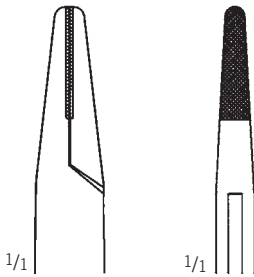
**LOUTIE WIRE TIGHTENER**  
 KM 46-619  
 8 1/2" (216mm)



Follow these easy steps to twist and tighten cerclage wire:

1. Position wire around bone. Bend the ends of the wire slightly upwards.
2. Feed both twisted wire ends through the tongue and groove jaw and push out and up through the jaw fenestration.
3. Engage the ratchet. This will lock the wire in place. Turn the entire instrument, tightening the wire around the bone.

**WIRE TWISTER AND TIGHTENER**  
KM 69-846  
6¼" (159mm)

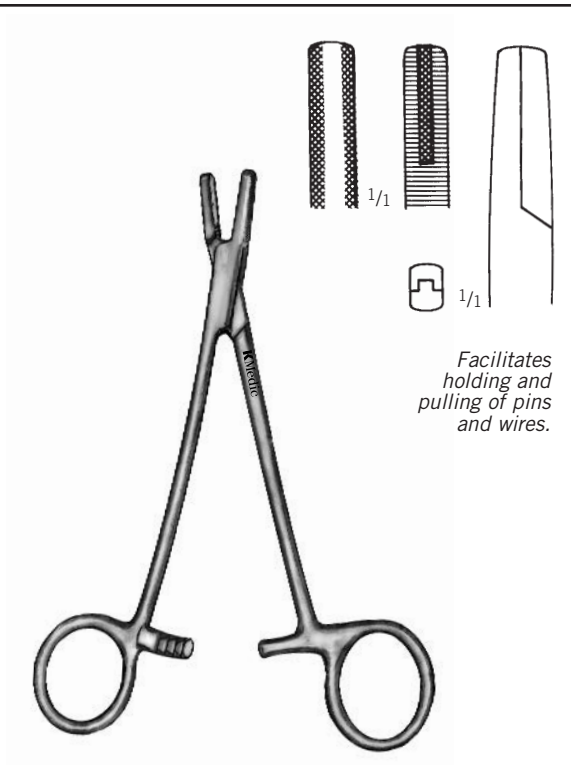


*Saves time by semi-automatically twisting soft wire.*

How to use the Corwin Wire Twister:

1. Wrap wire around bone and position ends next to each other.
2. Grasp both ends of wire with jaws.
3. Engage the ratchet to enforce solid clamping.
4. Stabilize wiring site.
5. Pull back on center ring repeatedly until wire has reached desired tension.
6. Disengage ratchet.

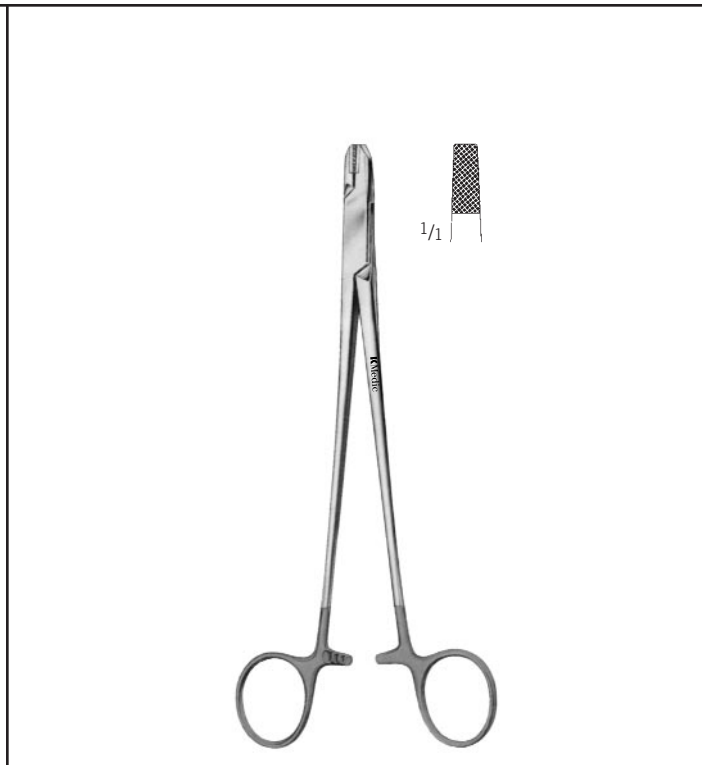
**CORWIN WIRE TWISTER**  
KM 46-582  
6¼" (159mm) with carbide inserts  
maximum capacity: 0.8mm or 21 gauge cerclage wire



*Facilitates holding and pulling of pins and wires.*

**WIRE PULLING FORCEPS**

KM 46-637  
6½" (165mm)  
maximum capacity: 1mm



**WIRE TWISTING FORCEPS**

KM 48-320  
6" (152mm) with carbide inserts  
3mm tip



**WIRE TWISTING FORCEPS**

KM 48-322  
8" (203mm) with carbide inserts  
4mm tip






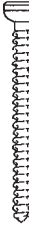




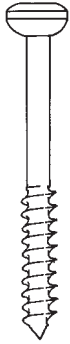




**WIRE TWISTING FORCEPS**

KM 48-324  
7¼" (184mm) with carbide inserts  
6mm tip




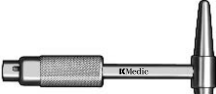


# KMedic®

## MASTER GUIDE

### SCREWS ■ DRILLBITS ■ TAPS ■ INSTRUMENTS

TYPE OF SCREW		CORTICAL				CANCELLOUS		CORTICAL	MALLEOLAR	CANCELLOUS	
		1.5mm	2.0mm	2.7mm	3.5mm	3.5mm	4.0mm	4.5mm	4.5mm	6.5mm	6.5mm
thread diameter		1.5mm	2.0mm	2.7mm	3.5mm	3.5mm	4.0mm	4.5mm	4.5mm	6.5mm	6.5mm
hexagonal socket size		1.5mm	1.5mm	2.5mm	2.5mm	2.5mm	2.5mm	3.5mm	3.5mm	3.5mm	3.5mm
<b>DRILL FOR GLIDING HOLE</b> KM NO.		48-052	48-054	48-058	48-063	48-063	—	48-067	—	48-067	48-068
											*FOR SHAFT IN HARD BONE
diameter		1.5mm	2.0mm	2.7mm	3.5mm	3.5mm	NONE	4.5mm	NONE	4.5mm	4.5mm
					 FINE THREAD	 COARSE THREAD					
<b>DRILL FOR THREADED HOLE</b> KM NO.		48-051	48-052	48-054	48-057	48-054 or 48-057	48-054 or 48-057	48-061	48-061	48-061	48-061
											
diameter		1.1mm	1.5mm	2.0mm	2.5mm	2.0mm or 2.5mm	2.0mm or 2.5mm	3.2mm	3.2mm	3.2mm	3.2mm
<b>TAP</b> KM NO.		48-106	48-108	48-110	48-112	48-114	48-114	48-116	48-116	48-122	48-122
					FINE THREAD	COARSE THREAD					
diameter		1.5mm	2.0mm	2.7mm	3.5mm	3.5mm	3.5mm	4.5mm	4.5mm	6.5mm	6.5mm



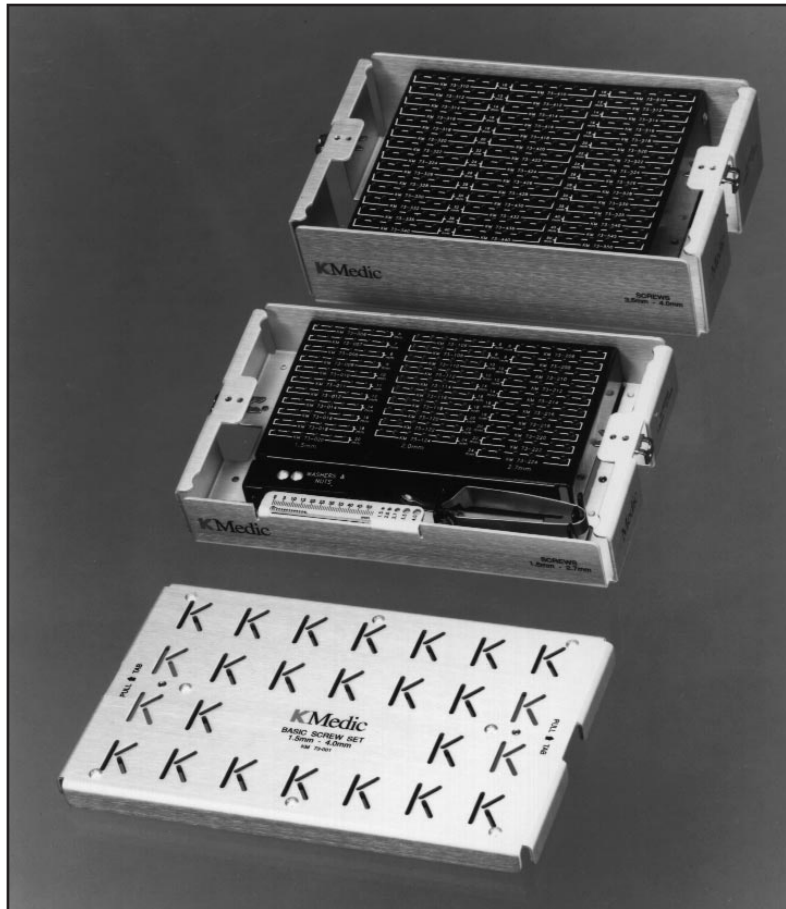
TYPE OF SCREW	CORTICAL				CANCELLOUS		CORTICAL	MALLEOLAR	CANCELLOUS		
	thread diameter	1.5mm	2.0mm	2.7mm	3.5mm	3.5mm	4.0mm	4.5mm	4.5mm	6.5mm	6.5mm
hexagonal socket size	1.5mm	1.5mm	2.5mm	2.5mm	2.5mm	2.5mm	3.5mm	3.5mm	3.5mm	3.5mm	3.5mm
<b>COUNTERSINK</b>	KM NO.	47-920	47-920	47-922	47-922	47-922	47-922	47-926	47-924	47-926	47-926
											
pilot diameter	1.1mm	1.1mm	2.0mm	2.0mm	2.0mm	2.0mm	4.4mm	3.2mm	4.4mm	4.4mm	4.4mm
<b>DEPTH GAUGE</b>	KM NO.	47-934	47-934	47-936	47-936	47-936	47-936	47-940	47-940	47-940	47-940
											
graduation	30mm	30mm	50mm	50mm	50mm	50mm	100mm	100mm	100mm	100mm	100mm
<b>QUICK COUPLING HANDLE</b>	KM NO.	47-902	47-902	47-904	47-904	47-904	47-904	47-904	47-904	47-904	47-904
				47-960	47-960	47-960	47-960	47-960	47-960	47-960	47-960
KM 47-904											
KM 47-960											
<b>SCREWDRIVERS</b>	KM NO.	47-950	47-950	47-953	47-953	47-953	47-953	47-954	47-954	47-954	47-954
				48-348	48-348	48-348	48-348				
				47-952	47-952	47-952	47-952	48-352	48-352	48-352	48-352
				48-368	48-368	48-368	48-368				
				48-350	48-350	48-350	48-350	48-349	48-349	48-349	48-349

Dimensional and material standards of instruments are according to the International Organization for Standardization (ISO) where existing.

See page 129 for KMedic's Small Fragment Screw Fixation set. Includes all the instruments needed for small screw fixation using 2.7mm - 4.0mm screws.

## BASIC SCREW TRAY

See page 129 for KMedic's Small Fragment Screw Fixation set. Includes all the instruments needed for small screw fixation using 2.7mm - 4.0mm screws.



### BASIC SCREW TRAY

KM 73-001

two trays with cover

tray 1: 9" x 5" x 1½" (229mm x 127mm x 38mm)

tray 2: 9" x 5" x 2½" (229mm x 127mm x 64mm)

trays 1 and 2 combined: 9" x 10" x 4" (229mm x 254mm x 102mm)

anodized aluminum

includes KM 47-930 Screw Holding Forceps

Accommodates six each of the following screws:

- 1.5mm
- 2.0mm
- 2.7mm
- 3.5mm (fine thread)
- 3.5mm (coarse thread)
- 4.0mm

*Please note: This tray will accommodate screws made according to ISO Standards.*

**DRILL BITS**  
with quick coupling ends



*To drill gliding  
and threaded holes.*

*Designed to fit quick  
coupling handles  
KM 47-902  
KM 47-904  
KM 47-960*

	diameter	overall length	working length	flute length
KM 48-051	1.1mm	60mm	33mm	12.5mm
KM 48-052	1.5mm	85mm	58mm	18.0mm
KM 48-054	2.0mm	100mm	73mm	21.5mm
KM 48-057	2.5mm	110mm	83mm	32.0mm
KM 48-058	2.7mm	100mm	73mm	29.0mm
KM 48-061	3.2mm	145mm	118mm	43.0mm
KM 48-063	3.5mm	110mm	83mm	41.5mm
KM 48-067	4.5mm	145mm	120mm	50.0mm
KM 48-068	4.5mm	195mm	170mm extra long	50.0mm
KM 48-069	6.0mm	195mm	170mm extra long	60.0mm

**DRILL BITS**  
with round drill chuck end



*Designed to fit any  
Jacobs chuck drill.*

	diameter	overall length	flute length
KM 48-070	1.0mm	55mm	25mm
KM 48-071	1.5mm	70mm	30mm
KM 48-073	2.0mm	85mm	38mm
KM 48-076	2.5mm	95mm	43mm
KM 48-077	2.7mm	85mm	32mm
KM 48-080	3.2mm	130mm	40mm 3 sided shank
KM 48-079	3.2mm	180mm	70mm
KM 48-081	3.5mm	95mm	42mm 3 sided shank
KM 48-082	3.5mm	180mm	70mm extra long
KM 48-085	4.5mm	130mm	55mm extra long 3 sided shank
KM 48-086	6.0mm	180mm	70mm extra long 3 sided shank

**COUNTERSINKS**

*Countersinks: used to prepare correct seating for screw head.  
For the correct instrumentation, please refer to the chart on pages 110 and 111.*



*For mini screws  
1.5/2.0mm.*

**MINI COUNTERSINK**

KM 47-920  
2 1/4" (57mm)  
1.1mm tip  
quick coupling end



*For small screws  
2.7/3.5/4.0mm.*

**SMALL COUNTERSINK**

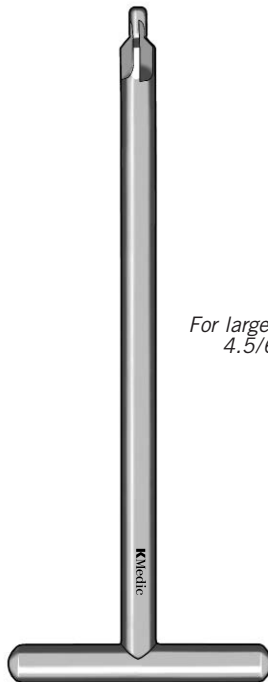
KM 47-922  
2 3/4" (70mm)  
2.0mm tip  
quick coupling end



*For malleolar  
screws.*

**MALLEOLAR COUNTERSINK**

KM 47-924  
4 3/4" (121mm)  
3.2mm tip  
quick coupling end



*For large screws  
4.5/6.5mm.*

**LARGE COUNTERSINK**

KM 47-926  
7" (178mm)  
4.5mm tip



*Converts QC end to  
round end with  
three flat sides for  
power drills.*

**ADAPTOR (POWER DRILL)**

KM 45-002  
2 1/2" (64mm)

**TAPS**

with quick coupling ends

*Taps: used to prepare thread path for insertion of bone screws.  
For the correct instrumentation, please refer to the chart on pages 110 and 111.*

For cortical screws  
thread pitch 0.5mm



KM 48-106  
2" (51mm)  
1.5mm diameter

For cortical screws  
thread pitch 0.6mm



KM 48-108  
2 1/4" (57mm)  
2.0mm diameter

For cortical screws  
thread pitch 1.0mm



KM 48-110  
4" (102mm)  
2.7mm diameter

For cortical screws  
thread pitch 1.25mm  
fine thread



KM 48-112  
4 1/2" (114mm)  
3.5mm diameter

For 3.5 and 4.0mm  
cancellous screws  
thread pitch 1.75mm  
coarse thread



KM 48-114  
4 1/2" (114mm)  
3.5mm diameter

For 4.5mm cortical  
and 4.5mm malleolar  
(shaft) screws



KM 48-116  
5" (127mm)  
4.5mm diameter

For 4.5mm cortical  
and 4.5mm malleolar  
(shaft) screws



KM 48-118  
5" (127mm)  
4.5mm diameter  
long thread

For cancellous screws  
calibrated, with mm graduations



KM 48-122  
8" (203mm)  
6.5mm diameter

## DEPTH GAUGES AND QUICK COUPLING HANDLES

For holding quick coupling drills, countersinks, taps and screwdrivers.

To help select the correct size for your needs — refer to our cross-reference chart on pages 110 and 111.



**MINI QUICK COUPLING HANDLE**  
 KM 47-902  
 4¼" (108mm)  
 for mini screw set



Phenolic handles are autoclavable to 290°F (143°C)

**SMALL QUICK COUPLING HANDLE**  
 KM 47-904  
 4½" (114mm)  
 for small and large screw sets



**SMALL QUICK COUPLING T-HANDLE**  
 KM 47-960  
 3½" (89mm)  
 for small and large screw sets

Used to determine screw length required during internal fracture fixation (mm graduated). Snaps apart for easy cleaning.  
**IMPORTANT NOTE:** When not in use retract measuring end inside gauge for probe protection.



**MINI SCREW DEPTH GAUGE**  
 KM 47-934  
 4¾" (121mm)  
 up to 30mm



**SMALL SCREW DEPTH GAUGE**  
 KM 47-936  
 6¼" (159mm)  
 up to 50mm



**LARGE SCREW DEPTH GAUGE**  
 KM 47-940  
 8¾" (222mm)  
 up to 100mm

*Drill guides and sleeves: used with drills and taps to place accurate holes and protect surrounding tissue.*



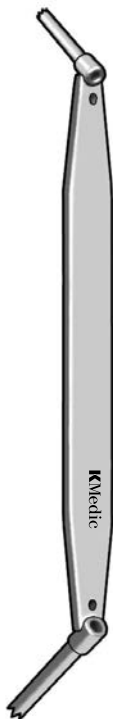
**DOUBLE DRILL SLEEVE** 1.5mm/1.1mm  
KM 47-968  
for 1.1mm and 1.5mm drill bits  
and tap for 1.5mm cortical screws



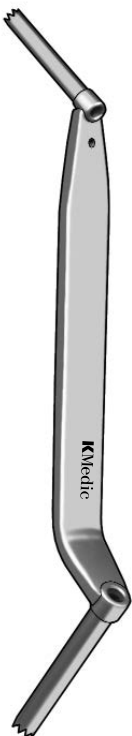
**DOUBLE DRILL SLEEVE** 2.0mm/1.5mm  
KM 47-966  
for 1.5mm and 2.0mm drill bits  
and tap for 2.0mm cortical screws



**DOUBLE DRILL SLEEVE** 2.7mm/2.0mm  
KM 48-002  
for 2.0mm and 2.7mm drill bits  
and tap for 2.7mm cortical screws



**DOUBLE DRILL SLEEVE** 3.5mm/2.5mm  
KM 47-972  
for 2.5mm and 3.5mm drill bits  
and tap for 3.5mm cortical screws,  
and tap for 4.0mm cancellous screws

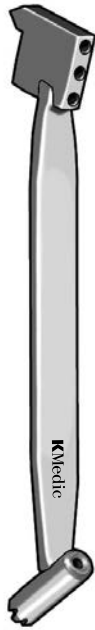


**DOUBLE DRILL SLEEVE** 4.5mm/3.2mm  
KM 47-967  
for 3.2mm and 4.5mm drill bits  
and tap for 4.5mm cortical screws,  
and tap for 4.5mm malleolar (shaft) screws



**DOUBLE DRILL SLEEVE** 6.5mm/3.2mm  
KM 47-965  
for 3.2mm drill bits and tap  
for 6.5mm cancellous screws

**DRILL GUIDES AND SLEEVES**

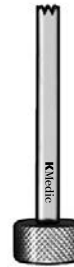


**TRIPLE WIRE AND DRILL GUIDE** 2.0mm  
 KM 47-970  
 three holes and one hole for 2.0mm drill bits



*Also can be used as 3.2mm drill bit guide.*

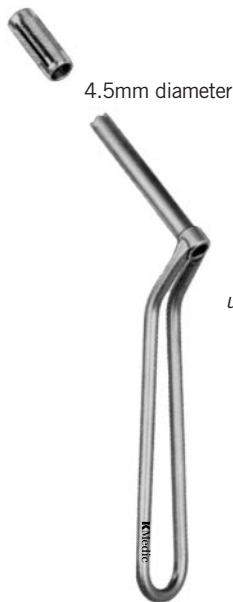
**TAP SLEEVE**  
 KM 47-971  
 4½" (114mm)  
 for 3.2mm drill bits



**INSERT DRILL SLEEVE** 3.5mm/2.7mm  
 KM 47-974  
 for 2.5mm drill bits and for long 3.5mm lag screws



**INSERT DRILL SLEEVE** 4.5mm/3.2mm  
 KM 47-973  
 for 3.2mm drill bits and for 4.5mm lag screws



*Also can be used as 4.5mm drill bit guide.*

**TAP SLEEVE**  
 KM 47-969  
 5" (127mm)  
 with toothed tip and tissue protector sleeve for 4.5mm tap



*Used with tap sleeve KM 47-969 or KM 47-967.*

**POINTED DRILL GUIDE**  
 KM 47-975  
 6" (152mm)  
 for 4.5mm cortical screws





**DRILL SLEEVE**  
 KM 47-976  
 4½" (114mm)  
 with 40mm long tip  
 for 3.2mm drill bits  
 for round hole and  
 semi-tubular plates

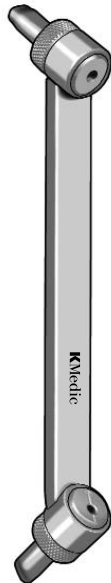


**DRILL SLEEVE**  
 KM 47-982  
 5" (127mm)  
 with 60mm long tip  
 for 3.2mm drill bits  
 for round hole plates

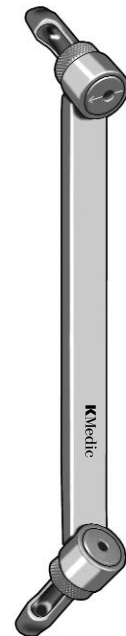


**DRILL GUIDE** 2.0mm neutral and load end  
 KM 47-977  
 4¾" (121mm)  
 for 2.0mm drill bit  
 for 2.7mm cortical screw

*Drill guide ends are color coded.  
 green=neutral  
 gold=load*



**DRILL GUIDE** 2.5mm neutral and load end  
 KM 47-978  
 5½" (140mm)  
 for 2.5mm drill bit  
 for 3.5mm cortical screw



**DRILL GUIDE** 3.2mm neutral and load end  
 KM 47-980  
 6½" (165mm)  
 for 3.2mm malleolar (shaft) drill bit  
 for 4.5mm cortical screw

**SCREWDRIVERS**

*Screwdrivers: used to place and remove bone screws.*



**MINI HEXAGONAL SCREWDRIVER**

KM 47-950  
2 1/4" (57mm)  
1.5mm quick coupling end sleeve included

KM 47-959  
screw holding sleeve only

1.5/2.0mm



**MINI CRUCIFORM SCREWDRIVER BIT**

KM 45-004  
2 1/2" (64mm)  
1.5/2.0mm quick coupling end

KM 47-959  
screw holding sleeve only for KM 45-004

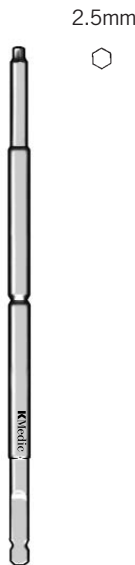
2.5mm



**SMALL HEXAGONAL SCREWDRIVER**

KM 47-953  
4" (102mm)  
2.5mm quick coupling end sleeve included

KM 47-955  
screw holding sleeve only for KM 47-953



**HEXAGONAL SCREWDRIVER SHAFT**

KM 48-348  
5 1/2" (140mm)  
2.5mm quick coupling end with notch

KM 48-365  
sleeve only

3.5mm



**LARGE HEXAGONAL SCREWDRIVER**

KM 47-954  
4 1/2" (114mm)  
3.5mm quick coupling end



*This is the sleeve for  
KM 48-368 and  
KM 48-348.*

**SCREWDRIVER SLEEVE**

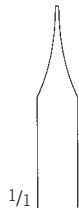
KM 48-365  
3" (76mm)



*This is the sleeve for  
KM 48-349 and  
KM 48-353.*

**SCREWDRIVER SLEEVE**

KM 47-983  
5" (127mm)



*Phenolic handle  
is autoclavable to  
290° F (143° C).*

**SINGLE SLOT SCREWDRIVER**

KM 48-355  
6 3/4" (171mm)  
with phenolic handle



2.5mm



1/1

*Phenolic handle  
autoclavable to  
290° F (143° C).*

**HEXAGONAL SCREWDRIVER**

KM 47-952  
7 3/4" (195mm)  
2.5mm screwdriver  
with sleeve

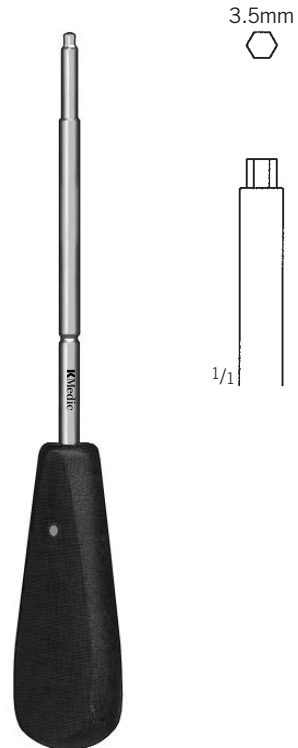
KM 47-955  
screw holding  
sleeve only  
for KM 47-952

KM 47-956  
screwdriver only  
for KM 47-952

**SCREWDRIVERS**



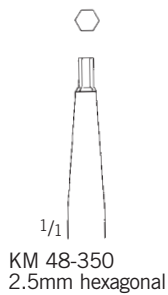
**HEXAGONAL SCREWDRIVER**  
 KM 48-368 8" (203mm) 2.5mm with notch screwdriver only  
 KM 48-365 sleeve only



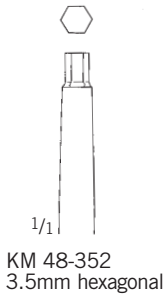
**HEXAGONAL SCREWDRIVER**  
 KM 48-349 10" (254mm) 3.5mm with notch  
 KM 47-983 sleeve only



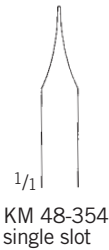
**SCREWDRIVER** 10" (254mm) with phenolic handle



KM 48-350 2.5mm hexagonal



KM 48-352 3.5mm hexagonal

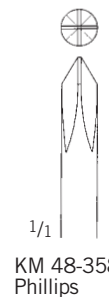


KM 48-354 single slot

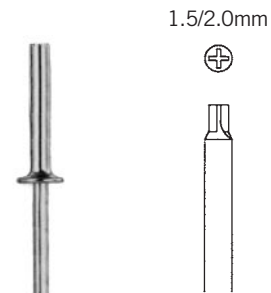
*Phenolic handle is autoclavable to 290° F (143° C).*



KM 48-356 cruciform



KM 48-358 Phillips



*Phenolic handle autoclavable to 290° F (143° C).*

**CRUCIFORM SCREWDRIVER**  
 KM 47-957 7 1/2" (191mm) 1.5/2.0mm screwdriver with sleeve

KM 47-959 screw holding sleeve only for KM 47-957

KM 47-958 screwdriver only for KM 47-957



*To check fracture and remove ingrown tissue.*

**SHARP HOOK**  
KM 47-880  
6" (152mm)



*To hold all sizes of KMedic bone screws.*

**SELF-RETAINING SCREW HOLDING FORCEPS**  
KM 47-930  
3½" (89mm)



**SELF-RETAINING SCREW HOLDING FORCEPS**  
KM 45-208 for 1.5mm to 2.7mm screws  
KM 45-210 for 3.5mm to 6.5mm screws



*Useful for removing 3.0mm to 4.5mm screws.*

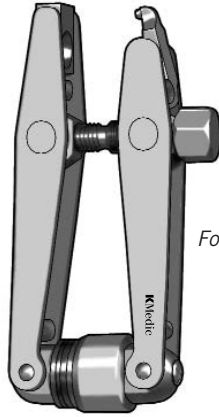
**SCREW REMOVAL FORCEPS** with speed lock  
KM 49-920  
7" (178mm)  
with carbide inserts

**PLATE AND BONE HOLDING FORCEPS**



**PLATE HOLDING CLIP**

KM 47-962 2.0mm  
 KM 47-963 2.7mm  
 KM 47-964 3.5mm



*For standard and small plates.*

**TENSION DEVICE ARTICULATED**

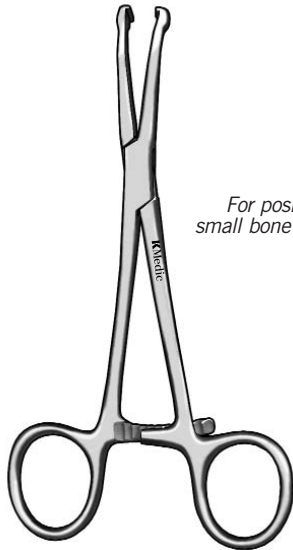
KM 47-911  
 3½" (89mm)  
 span: 20mm



*For tightening 8mm nuts.*

**WRENCH**

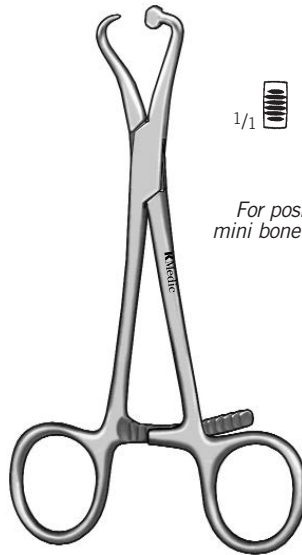
KM 47-914  
 5" (127mm)



*For positioning small bone plates.*

**PLATE AND BONE HOLDING FORCEPS**

KM 47-138  
 4¾" (121mm)

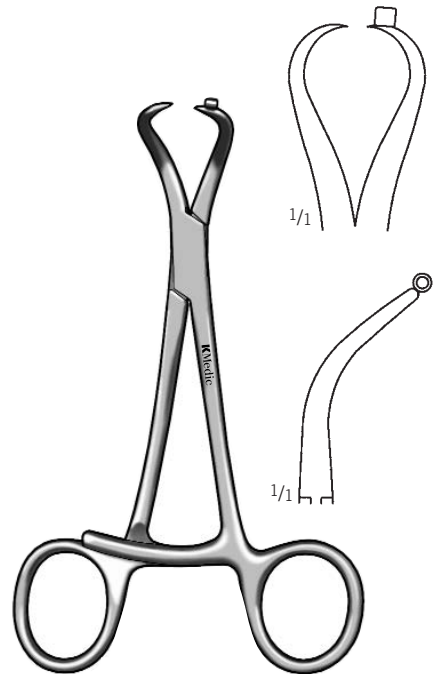


1/1

*For positioning mini bone plates.*

**PLATE AND BONE HOLDING FORCEPS**

KM 47-139  
 4¾" (121mm)  
 1 pointed tip



1/1

1/1

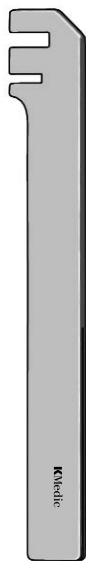
**BONE HOLDING FORCEPS**

KM 45-304  
 5¼" (133mm) with 1.6mm drill guide for positioning K-Wire up to .062" (1.6mm)

*Bending instruments: To avoid weakening of plates, do not bend or twist sharply. Never reverse bend, bend or twist at a plate hole.*



**MINI PLATE BENDING IRON**  
 KM 47-917  
 4 3/4" (121mm)  
 for mini and finger plates



KM 47-916

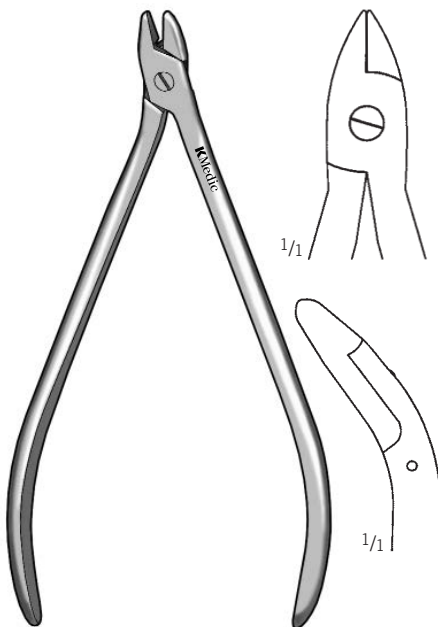


KM 47-915

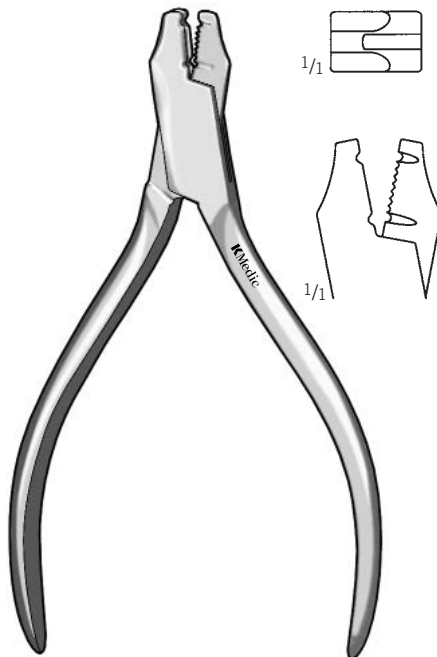
**SMALL PLATE BENDING IRONS**  
 5 1/2" (140mm)  
 for 2.7mm and 3.5mm plates  
 Used in pairs.



**MINI PLATE BENDING PLIERS**  
 KM 48-244  
 5" (127mm)  
 for 1.5mm and 2.0mm plates



**BENDING PLIERS**  
 KM 47-931  
 5 1/2" (140mm)  
 for 1.5mm and 2.0mm plates



**K-WIRE AND PLATE BENDER**  
 KM 49-724  
 Bends mini plates and up to  
 1.1mm (.045") K-Wire to 90° angle  
 3 prong



**SMALL PLATE BENDING PLIERS**  
 KM 47-925  
 8 3/4" (222mm)  
 for 2.7mm plates

# SmartRacks®

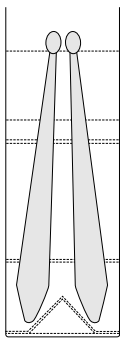
Exclusive KMedic design protects sharp edges better.

SmartRacks® are built to last!  
Outside frame is made from corrosion-resistant anodized aluminum and double riveted. Fully autoclavable to 270°F.

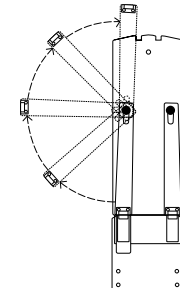
Side gates stay open during loading and unloading. Notches in the top of each panel keep side gates up and out of the way.

Delicate tips are protected. A plastic plate attached to the top bracket prevents metal to metal contact—even when the racks are turned upside down.

Cross brackets hold instruments better. Positioning slots are deeper and hold instruments securely.



Easy to load and unload. Our unique "A" frame base forces instruments to lean into the rack—not out. Racks can go from the autoclave to the O.R. where instruments can be removed one at a time.



User-friendly side gates stay locked. Nylon coated gates are secured in place with side latches—reduces accidental opening.

No metal to metal contact. Instrument slots are covered with nylon to help prevent scratching and maintain instrument quality.

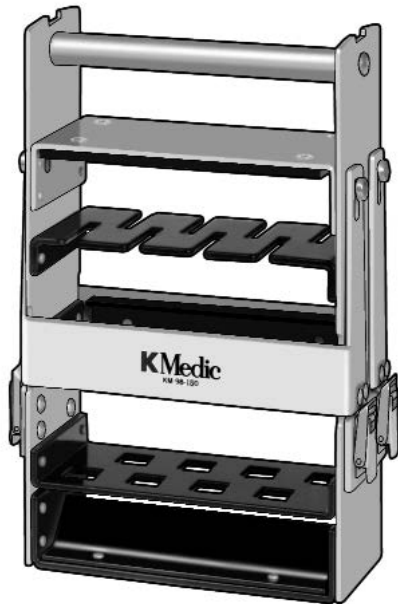
SmartRacks® save time. Product number and content charts are printed on top of racks. This makes instrument-to-rack identification quick and easy.

DESCRIPTION	INSTRUMENTS HELD IN EACH RACK
<p><b>HOKE SMARTRACK®</b> KM 98-150 8 1/4" x 5" x 2 1/4" (210mm x 127mm x 57mm)</p>	<p><b>Eight 5 1/4" KMedic Hoke Chisels or Osteotomes</b> Hoke Chisels – KM 46-505 thru KM 46-509 Hoke Osteotomes – KM 46-497 thru KM 46-504 KM 46-700 thru KM 46-709</p>
<p><b>BRUN SMARTRACK®</b> KM 98-160 9 3/4" x 8 1/2" x 2 3/4" (248mm x 216mm x 70mm)</p>	<p><b>Twelve 7" KMedic Brun Curettes</b> KM 46-511 thru KM 46-531</p>

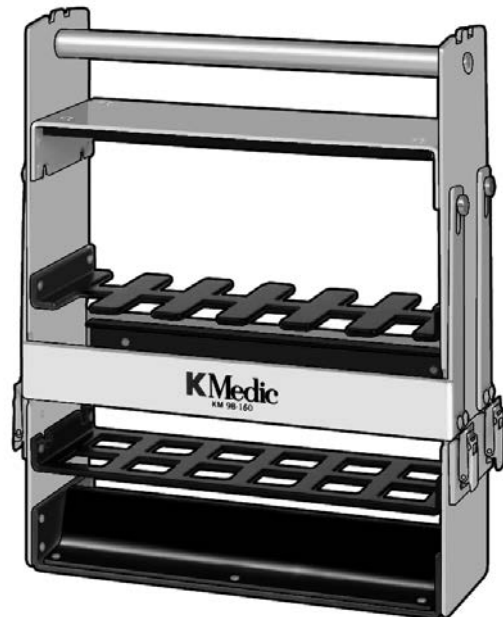
For our complete line of SmartRacks® refer to our Orthopedic Sourcebook™.

U.S. Patent #5,843,388





**HOKE SMARTRACK®**  
 KM 98-150  
 8 1/4" x 5" x 2 1/4"  
 (210mm x 127mm x 57mm)  
 Holds eight 5 1/4" (133mm) KMedic  
 Hoke Chisels or Osteotomes  
 U.S. Patent #5,843,388



**BRUN SMARTRACK®**  
 KM 98-160  
 9 3/4" x 8 1/2" x 2 1/4"  
 (248mm x 216mm x 70mm)  
 Holds twelve 7" (178mm) KMedic  
 Brun Curettes  
 U.S. Patent #5,843,388



*Cover made of leather.  
 Removeable inserts made of cotton.*

**INSTRUMENT FLAT PACK**  
*Flat Pack and Insert Cotton Inserts Only*  
 KM 98-112 KM 98-112P  
 7" x 4" holds 12 holds 12  
 (178mm x 102mm)  
 KM 98-116 KM 98-116P  
 8" x 5" holds 16 holds 16  
 (203mm x 127mm)  
 KM 98-120 KM 98-120P  
 8" x 6" holds 20 holds 20  
 (203mm x 152mm)



**STERILIZING CONTAINER**  
 KM 46-544 KM 46-545  
 9" x 5" x 2" 11" x 9" x 2"  
 (279mm x 127mm x 51mm) (279mm x 229mm x 51mm)

**SILICONE MAT**  
 KM 98-125  
 fits tray KM 46-544

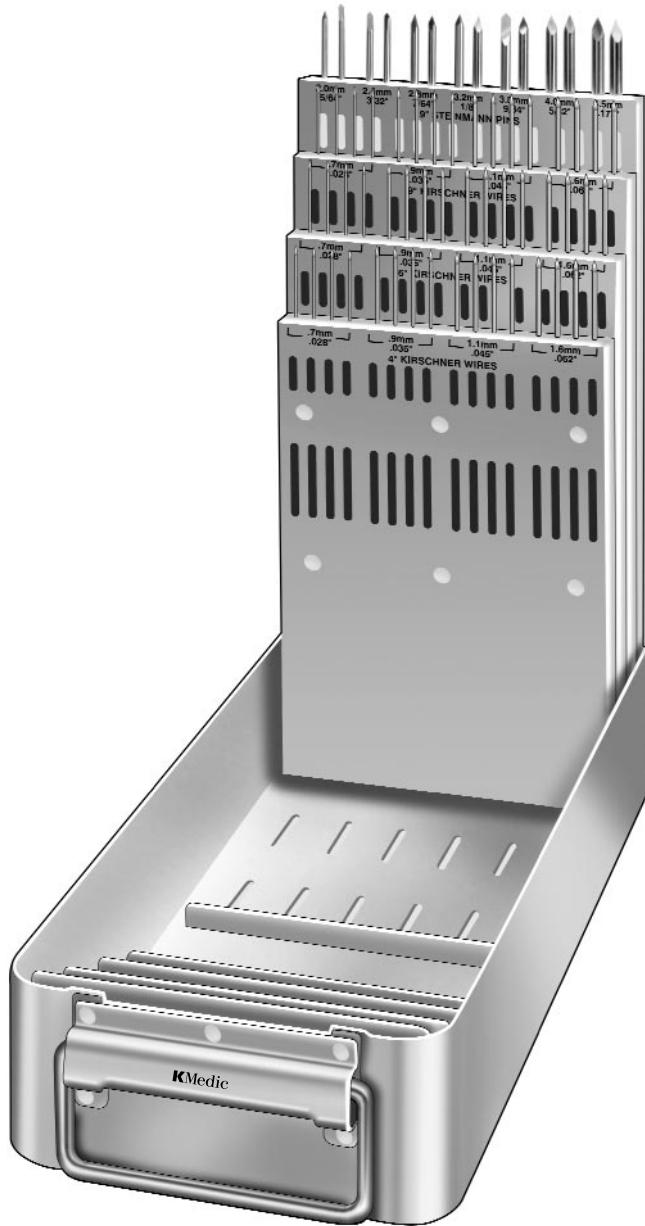
**REPLACEMENT CLOTH INSERTS**  
 KM 46-544P small  
 KM 46-545P medium

*Sterilize, identify, move and store all your instruments together in these stainless steel containers. Removable lid can double up as a tray. Engravable tags for easy identification. Check the size of your autoclave chamber before ordering. Wrap container before placing in steam or gas sterilizer.*

*Recommend to replace cloth inserts every six months.*

## K-Wire and Steinmann Pin Sterilization Case

Designed to provide easy access and identification.



The KMedic K-Wire and Steinmann Pin Sterilization Case holds popular 4" (102mm), 6" (152mm) and 9" (229mm) K-Wires and 9" (229mm) Steinmann Pins.

Accommodates four each of the following K-Wire diameters:

- .028" (.7mm)
- .035" (.9mm)
- .045" (1.1mm)
- .062" (1.6mm)

Accommodates two each of the following Steinmann Pin diameters:

- 5/64" (2.0mm)
- 3/32" (2.4mm)
- 7/64" (2.8mm)
- 1/8" (3.2mm)
- 9/64" (3.5mm)
- 5/32" (4.0mm)
- .177" (4.5mm)

- Removable lid fits under case—taking up less room in the O.R.
- Nylon coated brackets prevent metal-to-metal contact—protecting sharp ends.
- Contents are held in place when closed—preventing shifting.
- Secure locking side brackets help prevent accidental opening.
- Handles at each end for easy transport.
- Anodized aluminum case is lightweight and built to withstand abuse.
- Fully autoclavable to 270°F.



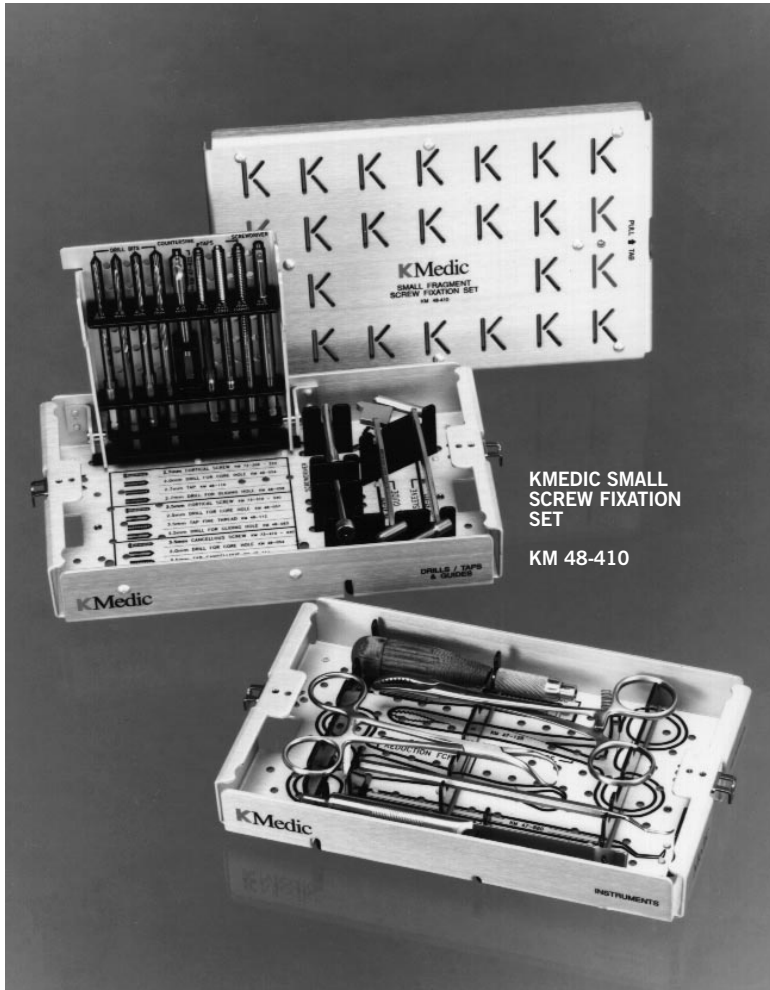
Case in closed position

### K-WIRE AND STEINMANN PIN STERILIZATION CASE

KM 71-010  
11 3/4" x 5 1/4" x 2" (closed)  
(298mm x 133mm x 51mm)

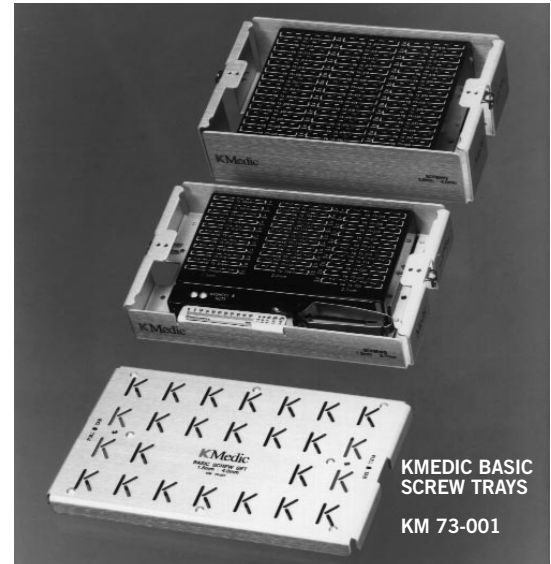
# The Internal Fixation Set

Specifically Designed for the Office and Surgicenter



KMEDIC SMALL  
SCREW FIXATION  
SET

KM 48-410



KMEDIC BASIC  
SCREW TRAYS

KM 73-001



STACKED  
INSTRUMENT &  
SCREW TRAYS

KMedic's Small Fragment Screw Fixation Set provides all the instruments you need to manage small screw fixation using 2.7mm through 4.0mm screws. The set is perfect for the office and surgicenter where quality is mandatory but budgets are limited. The instruments are compatible with the latest AO techniques. Dimensional standards are according to the International Organization for Standardization (ISO).

- **COMPACT SIZE** Fits into all autoclaves. Autoclave individually or in any tray combination.
- **COST EFFECTIVE** Maintain a personal set at each operating facility to avoid scheduling conflicts. Buy only what you need now. Add on as you go.
- **MODULAR DESIGN** Trays stack and lock together. No metal-to-metal contact of implants or instruments assures implant integrity.
- **CLEAR GRAPHICS** Plus quick reference chart make set-up, use and reordering easy.
- **LIGHTWEIGHT AND PORTABLE** Easy to transport from the office to other operating sites. Precision placement of contents keeps each item securely in its place.

**INTERNAL FIXATION SET****KM 48-410 SMALL FRAGMENT SCREW FIXATION SET**

includes one each of the following items:

KM#	Qty	Description
KM 47-137	1	BONE REDUCTION FORCEPS, POINTED 5½" (133mm)
KM 47-880	1	SHARP HOOK 6" (152mm)
KM 47-128	1	BONE REDUCTION FORCEPS 6" (152mm) curved jaw
KM 48-054	1	DRILL BIT 2.0mm, 4" (102mm)
KM 48-057	1	DRILL BIT 2.5mm, 4½" (114mm)
KM 48-058	1	DRILL BIT 2.7mm, 4" (102mm)
KM 48-063	1	DRILL BIT 3.5mm, 4½" (114mm)
KM 47-922	1	COUNTERSINK SMALL 2.0mm, 2¾" (70mm)
KM 48-110	1	TAP 2.7mm, 4" (102mm)
KM 48-112	1	TAP 3.5mm, 5" (127mm) fine thread
KM 48-114	1	TAP 3.5mm, 4½" (114mm) 1.75mm thread
KM 47-904	1	QUICK COUPLING HANDLE 4½" (114mm) small
KM 47-970	1	DRILL GUIDE for 2.0mm drill, 4½" (108mm)
KM 47-972	1	TAP SLEEVE 2.5mm drill & 3.5mm screw, 5" (127mm)
KM 47-974	1	INSERT DRILL SLEEVE 3.5/2.7mm, 1½" (38mm)
KM 47-953	1	SCREWDRIVER BIT 2.5mm, 4" (102mm)
KM 47-955	1	SLEEVE FOR SCREWDRIVER KM 47-953, 2" (51mm)
KM 47-936	1	DEPTH GAUGE small 6¼" (159mm)
KM 48-412	2	INSTRUMENT TRAYS (with covers)
		Tray 1: size 9" x 5" x 1¼" (229mm x 127mm x 32mm)
		Tray 2: size 9" x 5" x 1½" (229mm x 127mm x 38mm)

**KM 73-001 BASIC SCREW SET** (two trays with cover)

Accommodates 6 each of 1.5mm through 4.0mm screws as long as they are made according to ISO Standards (not included with trays).

Includes KM 47-930 Screw Holding Forceps.

Tray 1: size 9" x 5" x 1½" (229mm x 127mm x 38mm)

Tray 2: size 9" x 5" x 2½" (229mm x 127mm x 64mm)

Combined size of all 4 trays: 9" x 5" x 7" (229mm x 127mm x 178mm)

*Not part of this set, but also available from KMedic*

**KM 48-414 MINI FIXATION SET**

for 1.5mm and 2.0mm screws

KM#	Qty	Description
KM 48-051	1	DRILL BIT 1.1mm, 2½" (64mm)
KM 48-052	1	DRILL BIT 1.5mm, 3½" (89mm)
KM 48-054	1	DRILL BIT 2.0mm, 4½" (114mm)
KM 47-920	1	MINI COUNTERSINK 1.1mm, 2¼" (57mm)
KM 48-106	1	TAP 1.5mm, 2" (51mm)
KM 48-108	1	TAP 2.0mm, 2¼" (57mm)
KM 47-902	1	MINI QUICK COUPLING HANDLE, 4¼" (114mm)
KM 47-968	1	MINI DRILL SLEEVE for 1.1 & 1.5mm drill bits
KM 47-950	1	SCREWDRIVER BIT 1.5mm, 2¼" (57mm)
KM 47-934	1	MINI DEPTH GAUGE, 4¼" (114mm)

To house the KMedic Mini Fixation Set, we recommend Container KM 46-544 and Silicone Mat KM 98-125 (see page 127 for details)

**INSTRUMENTS FOR MINI FRAGMENT FIXATION**  
 1.5MM, 2.0MM AND 2.7MM SCREWS

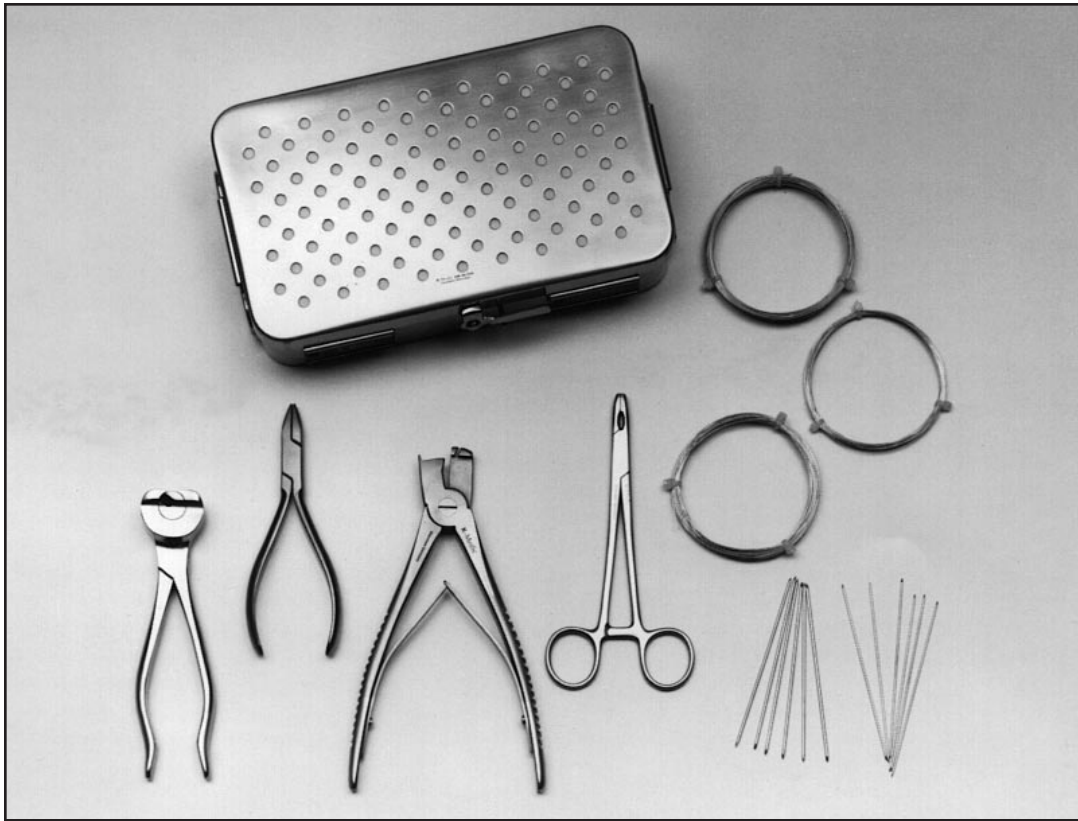
KM #	Qty.	Description
KM 45-208	1	SCREWHOLDING FORCEPS 3 <sup>1</sup> / <sub>2</sub> " (89mm)
KM 46-206	1	PERIOSTEAL ELEVATOR, 3MM WIDTH
KM 46-623	1	WIRE CUTTER 7" (178mm) ANGLED MAX CAP 1.6MM
KM 46-830	1	MINI HOHMANN RETRACTOR 6 <sup>1</sup> / <sub>2</sub> " (165mm) 6MM
KM 46-832	1	MINI HOHMANN RETRACTOR 6 <sup>1</sup> / <sub>2</sub> " (165mm) 8MM
KM 47-119	1	STAGBEETLE FORCEPS 120MM
KM 47-133	1	BONE REDUCTION FORCEPS WITH POINTS, 5" (127mm) NARROW
KM 47-135	1	BONE REDUCTION FORCEPS WITH POINTS, 5 <sup>1</sup> / <sub>2</sub> " (140mm) BROAD
KM 47-880	1	SHARP HOOK 6" (152mm)
KM 47-902	1	HANDLE FOR MINI QC INSTRUMENTS 4 <sup>1</sup> / <sub>4</sub> " (108mm)
KM 47-904	1	QUICK COUPLING HANDLE 4 <sup>1</sup> / <sub>2</sub> " (114mm)
KM 47-915	1	BENDING IRON 5 <sup>1</sup> / <sub>2</sub> " (140mm) 2.7MM + 3.5MM
KM 47-916	1	BENDING IRON FOR SMALL PLATES 5 <sup>1</sup> / <sub>2</sub> " (140mm)
KM 47-917	1	PLATE BENDING IRON 4 <sup>3</sup> / <sub>4</sub> " (121mm) 1.8MM
KM 47-920	1	COUNTERSINK MINI 1.1MM
KM 47-922	1	COUNTERSINK SMALL 2.0MM 7CM
KM 47-931	2	BENDING PLIERS FOR 1.5MM AND 2.0MM PLATES
KM 47-932	1	PLATE CUTTING FORCEPS
KM 47-934	1	MINI DEPTH GAUGE 30MM
KM 47-936	1	SCREW DEPTH GAUGE 50MM
KM 47-950B	1	MINI HEX SCREWDRIVER BIT
KM 47-953	1	SCREWDRIVER BIT 2.5MM; 10CM QC
KM 47-955	1	SLEEVE FOR SCREWDRIVER 47-952 + 47-953
KM 47-959	1	SLEEVE ONLY FOR MINI HEX AND CRUCIFORM DRIVER SHAFTS
KM 47-966	1	2.0MM/1.5MM DOUBLE DRILL SLEEVE
KM 47-968	1	MINI DRILL SLEEVE 4 <sup>1</sup> / <sub>4</sub> " (108mm)
KM 48-002	1	2.0MM/2.7MM DOUBLE DRILL SLEEVE
KM 48-051	2	DRILL BIT QC 1.1MM, 60/35MM
KM 48-052	2	DRILL BIT QC 1.5MM, 85/60MM
KM 48-054	2	DRILL BIT QC 2.0MM, 100/75MM
KM 48-058	2	DRILL BIT QC 2.7MM, 100/75MM
KM 48-106	2	TAP 1.5MM, 2" (51mm)
KM 48-108	2	TAP 2.0MM, 2 <sup>1</sup> / <sub>4</sub> " (57mm)
KM 48-110	2	TAP 2.7MM, 10CM QC
KM 48-242	1	NEEDLE NOSE PLIERS 5 <sup>1</sup> / <sub>2</sub> " (140mm) DELICATE WITH GROOVE
KM 48-368	1	SCREWDRIVER 2.5MM HEX WITH NOTCH
<b>OPTIONAL</b>		
KM 45-004	1	MINI CRUCIFORM SCREWDRIVER BIT QC
KM 46-212	1	PERIOSTEAL ELEVATOR 7 <sup>1</sup> / <sub>4</sub> " (184mm) 6MM CURVED
KM 46-827	1	HOHMANN RETRACTOR 6" (152mm) 15MM BROAD TIP
KM 47-137	1	BONE REDUCTION FORCEPS POINTED 5 <sup>1</sup> / <sub>4</sub> " (133mm)
KM 47-138	1	PLATE HOLDING FORCEPS 5 <sup>1</sup> / <sub>2</sub> " (140mm)
KM 47-139	1	BONE COMPRESSION FORCEPS 5" (127mm)
KM 48-370	1	GRATLOCH™ K-WIRE BENDER 7 <sup>1</sup> / <sub>2</sub> " (191mm)

**SMALL FRAGMENT SET****INSTRUMENTS FOR SMALL FRAGMENT FIXATION**  
3.5MM AND 4.0MM SCREWS

KM #	Qty.	Description
KM 45-002	1	ADAPTOR (POWER) FOR QC INSTRUMENTS
KM 45-126	1	BENDING TEMPLATE 5 HOLE 3.5MM
KM 45-127	1	BENDING TEMPLATE 7 HOLE 3.5MM
KM 45-128	1	BENDING TEMPLATE 9 HOLE 3.5MM
KM 45-210	1	SCREWHOLDING FORCEPS 3 $\frac{1}{2}$ " (89mm)
KM 46-212	1	PERIOSTEAL ELEVATOR 7 $\frac{1}{4}$ " (184mm) STRAIGHT 6MM ROUND CURVED
KM 46-827	2	HOHMANN RETRACTOR 6" (152mm) 15MM BROAD TIP
KM 46-832	2	MINI HOHMANN RETRACTOR 6 $\frac{1}{2}$ " (165mm) 8MM
KM 47-092	1	VERBRUGGE FORCEPS, SELF-CENTERING 7 $\frac{1}{2}$ " (191mm)
KM 47-128	1	BONE REDUCTION FORCEPS 6" (152mm) SMALL CURVED
KM 47-133	1	BONE REDUCTION FORCEPS WITH POINTS, 5" (127mm) NARROW
KM 47-135	1	BONE REDUCTION FORCEPS WITH POINTS, 5 $\frac{1}{2}$ " (140mm) BROAD
KM 47-880	1	SHARP HOOK 6" (152mm)
KM 47-915	1	PLATE BENDING IRON 5 $\frac{1}{2}$ " (140mm) 2.7MM + 3.5MM
KM 47-916	1	BENDING IRON FOR SMALL PLATES 5 $\frac{1}{2}$ " (140mm)
KM 47-919	2	BENDING IRON FOR 3.5MM & 4.5MM RECON PLATES
KM 47-922	1	COUNTERSINK SMALL 2.0MM 7CM
KM 47-936	1	SCREW DEPTH GAUGE 50MM
KM 47-947	1	BENDING TEMPLATE 22 HOLE FOR 3.5MM RECON PLATE
KM 47-960	1	T-HANDLE QUICK COUPLING
KM 47-970	1	DRILL GUIDE FOR 2MM DRILL DE; 10.5MM
KM 47-972	1	TAP SLEEVE 2.5MM DRILL & 3.5MM SCREW
KM 47-974	1	INSERT DRILL SLEEVE 3.5/2.7MM SCREW
KM 47-978	1	DRILL GUIDE NEUTRAL & LOAD 2.5/3.5MM
KM 48-004	1	3.5MM UNIVERSAL DRILL GUIDE
KM 48-057	2	DRILL BILL QC 2.5MM, 110/85MM GOLD
KM 48-063	2	DRILL BIT QC 3.5MM, 110/85MM
KM 48-112	2	TAP 3.5MM; 12CM QC, FINE THREAD GOLD
KM 48-114	2	TAP 3.5MM; 11CM QC, 1.75MM PITCH
KM 48-242	1	NEEDLE NOSE PLIERS 5 $\frac{1}{2}$ " (140mm) DELICATE WITH GROOVE
KM 48-348	1	SCREWDRIVER SHAFT QC 2.5MM HEX WITH NOTCH
KM 48-365	1	SLEEVE ONLY FOR KM 48-348/48-364/48-368
KM 48-368	1	SCREWDRIVER 2.5MM HEX WITH NOTCH
KM 48-372	1	WIRE AND PIN BENDER 6" (152mm) 3.2MM ( $\frac{1}{8}$ ")

**OPTIONAL**

KM 45-129	1	BENDING TEMPLATE 12 HOLE 3.5MM
KM 46-624	1	WIRE CUTTER
KM 46-632	1	PIN CUTTER 10" (254mm) SMALL
KM 46-830	1	MINI HOHMANN RETRACTOR 6 $\frac{1}{2}$ " (165mm) 6MM
KM 47-090	1	VERBRUGGE FORCEPS SELF CENTERING 6" (152mm)
KM 47-137	1	BONE REDUCTION FORCEPS POINTED 5 $\frac{1}{4}$ " (133mm)
KM 47-904	1	QUICK COUPLING HANDLE 4 $\frac{1}{2}$ " (114mm)
KM 47-925	1	BENDING PLIERS FOR SMALL PLATES
KM 47-953	1	SCREWDRIVER BIT 2.5MM; 10CM QC
KM 47-955	1	SLEEVE FOR SCREWDRIVER 47-952 & 47-953
KM 48-370	1	GRATLOCH™ K-WIRE BENDER 7 $\frac{1}{2}$ " (191mm)



**MINI BONE WIRE SET** KM 48-400

This set is ideal for offices and surgi-centers. The compact sterilization case will fit all sizes of autoclaves.

Each set contains:

KM #	Qty.	Description
<b>INSTRUMENTS</b>		
KM 46-544	1	STERILIZING CONTAINER 9"×5"×2" (229mm x 127mm x 51mm)
KM 46-651	1	DIAMOND PIN CUTTER 6¼" (159mm)
KM 48-245	1	NEEDLE NOSE PLIERS 5½" (140mm)
KM 48-370	1	GRATLOCH™ WIRE BENDER 7½" (191mm)
KM 69-846	1	WIRE TWISTER AND TIGHTENER 6¼" (159mm)

**K-WIRE** one package (6 wires) of each

KM 71-100	1	DOUBLE TROCAR 4" (102mm) .028" (0.7mm) diameter
KM 71-101	1	DOUBLE TROCAR 4" (102mm) .035" (0.9mm) diameter
KM 71-102	1	DOUBLE TROCAR 4" (102mm) .045" (1.1mm) diameter
KM 71-103	1	DOUBLE TROCAR 4" (102mm) .062" (1.6mm) diameter

**CERCLAGE WIRE** 10 meters in length

KM 72-104	1	0.4mm diameter
KM 72-106	1	0.6mm diameter
KM 72-108	1	0.8mm diameter

**OPTIONAL**

KM 46-540	1	VICKERS EASIDRIVER™
KM 46-542	1	VICKERS K-WIRE DISPENSER™



**SMALL BONE WIRE SET** KM 48-402

This set is useful for all small bone work.

Each set contains:

KM #	Qty.	Description
<b>INSTRUMENTS</b>		
KM 46-547	1	STERILIZING CASE 20"×8"×2" (508mm x 203mm x 51mm)
KM 46-542	1	VICKERS K-WIRE DISPENSER™ 4" (102mm)
KM 46-622	1	DELICATE WIRE CUTTER 4¾" (121mm)
KM 46-651	1	DIAMOND PIN CUTTER 6¼" (159mm)
KM 48-245	2	NEEDLE NOSE PLIERS 5½" (140mm)
KM 48-320	2	WIRE TWISTING FORCEPS 6" (152mm)
KM 48-370	1	GRATLOCH™ WIRE BENDER 7½" (191mm)
KM 48-386	1	WIRE PASSER (CANNULATED) 7" (178mm)
KM 48-602	1	LOCKING PLIERS 8" (203mm)
KM 48-604	1	PARALLEL PLIERS 7" (178mm)
KM 69-846	1	WIRE TWISTER AND TIGHTENER 6¼" (159mm)

**K-WIRE** one package (6 wires) of each

KM 71-100	1	DOUBLE TROCAR 4" (102mm) .028" (0.7mm) diameter
KM 71-101	1	DOUBLE TROCAR 4" (102mm) .035" (0.9mm) diameter
KM 71-102	1	DOUBLE TROCAR 4" (102mm) .045" (1.1mm) diameter
KM 71-103	1	DOUBLE TROCAR 4" (102mm) .062" (1.6mm) diameter
KM 71-021	1	DOUBLE TROCAR 6" (152mm) .028" (0.7mm) diameter
KM 71-022	1	DOUBLE TROCAR 6" (152mm) .035" (0.9mm) diameter
KM 71-023	1	DOUBLE TROCAR 6" (152mm) .045" (1.1mm) diameter
KM 71-025	1	DOUBLE TROCAR 6" (152mm) .062" (1.6mm) diameter

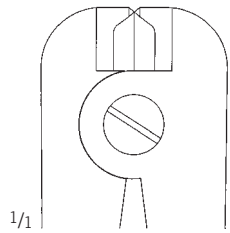
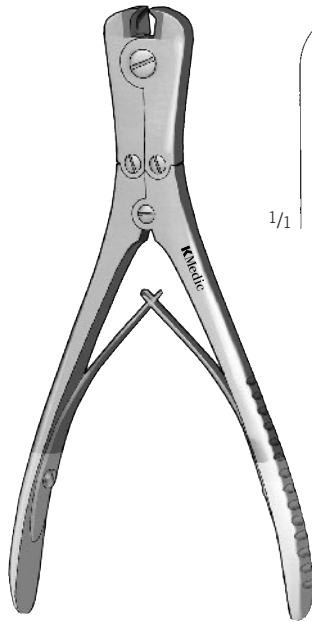
**CERCLAGE WIRE** 10 meters in length

KM 72-110	1	1.0mm diameter
KM 72-112	1	1.2mm diameter

**OPTIONAL**

KM 46-540 VICKERS EASIDRIVER™  
 KM 71-001, 71-002, 71-003, 71-004, 71-006 K-WIRE DISPENSERS

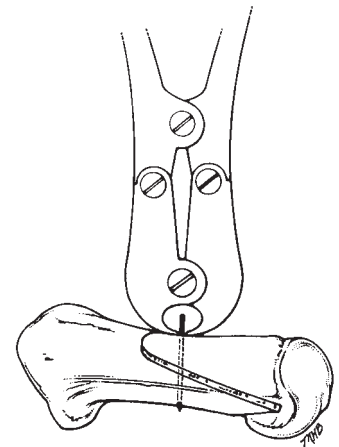




Our Flush Cutter cuts K-Wire flush to the bone like no other wire cutter. Double action for ease, comfort and power with tungsten carbide jaws for long life and sharpness.

Note: To achieve the best results when cutting wire, follow these simple steps.

- Choose the appropriate cutter for the wire diameter you want to cut.
- Cut wire in the middle of the jaw not on the edge or in the corner.
- Make a first cut leaving a piece about 1/4" long. Now you can position the cutter for its second and flattest cut.
- When cutting, do not twist and turn the cutter. Just press the handles together.

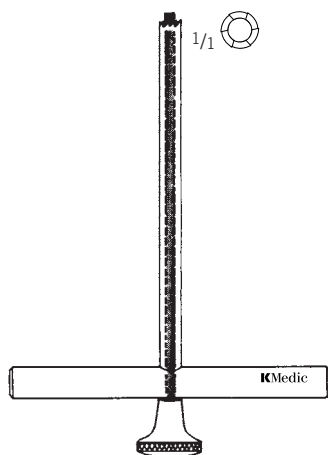


*Drawing shows the Wire Cutter cutting flush to the bone. It is both front and side cutting.*

**FLUSH WIRE CUTTER**

KM 46-631  
7" (178mm) front and side cutting with carbide inserts  
cuts up to .062" (1.6mm)

*When removing K-Wire, use the Plug Cutter to extract a tiny cylinder of bone around the tip of the wire.*

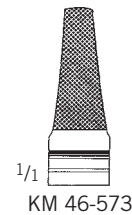


**PLUG CUTTER**

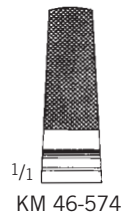
KM 48-252  
4 1/2" (114mm) with obturator  
3mm inside diameter  
5mm outside diameter



KM 46-572



KM 46-573



KM 46-574

*The wire can then be easily grasped with our Extraction Pliers. Long lasting tungsten carbide jaws and double action for grasping power.*

**DOUBLE ACTION WIRE EXTRACTION PLIERS**

KM 46-572	KM 46-573	KM 46-574
7" (178mm)	7" (178mm)	7" (178mm)
2mm jaw carbide	4mm jaw carbide	6mm jaw carbide

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KM 49-618	17	KM 52-202	40	KM 53-450	26	KM 69-340	1
KM 49-620	17	KM 52-204	40	KM 53-456	26	KM 69-341	1
KM 49-622	17	KM 52-206	40	KM 53-460	26	KM 69-342	1
KM 49-624	17	KM 52-208	40	KM 54-272	33	KM 69-344	1
KM 49-626	17	KM 52-212	40	KM 54-280	33	KM 69-348	4
KM 49-724	96,125	KM 52-214	40	KM 54-282	33	KM 69-352	4
KM 49-734	98	KM 52-216	40	KM 54-284	33	KM 69-418	2
KM 49-735	99	KM 52-254	42	KM 54-338	37	KM 69-430	3
KM 49-760	69	KM 52-258	42	KM 54-342	37	KM 69-432	3
KM 49-764	69	KM 52-262	42	KM 54-346	37	KM 69-438	3
KM 49-765	68	KM 52-264	42	KM 54-348	37	KM 69-440	2
KM 49-802	96	KM 52-266	42	KM 54-350	38	KM 69-441	2
KM 49-820	96	KM 52-268	42	KM 54-358	41	KM 69-445	3
KM 49-910	55	KM 52-272	42	KM 54-360	41	KM 69-446	3
KM 49-920	123	KM 52-274	42	KM 54-362	41	KM 69-448	1
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KM 51-108	43	KM 52-416	47	KM 54-368	39	KM 69-534	7,70
KM 51-112	43	KM 52-417	47	KM 54-372	39	KM 69-538	7,70
KM 51-468	42	KM 52-418	47	KM 55-170	63	KM 69-540	70
KM 51-480	43	KM 52-425	46	KM 56-284	89	KM 69-541	70
KM 51-482	43	KM 52-426	46	KM 56-312	89	KM 69-542	70
KM 51-498	43	KM 52-427	46	KM 56-318	89	KM 69-543	71
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KM 51-534	42	KM 52-532	48	KM 57-620	49	KM 69-790	7
KM 51-752	41	KM 52-536	48	KM 57-622	49	KM 69-792	4
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KM 71-132	91	KM 71-232	91	KM 71-633	92		







## Ruler MM and Inches

### Conversions:

#### Inches to MM

Multiply the inch dimension by 25.4 to obtain the size in millimeters.

#### MM to Inches

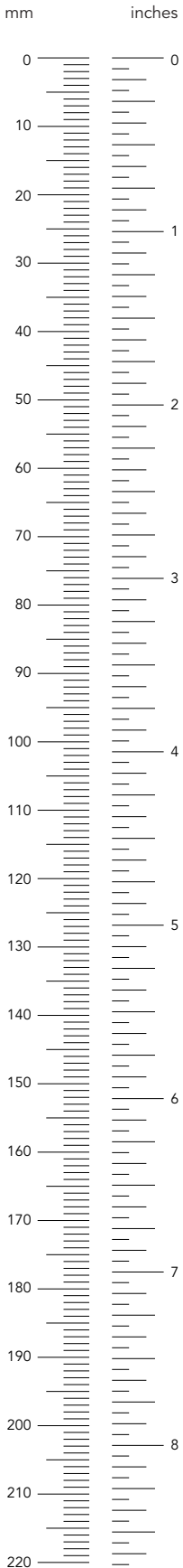
Multiply the millimeter dimension by .0394 or divide by 25.4 to obtain the size in inches.

#### Fahrenheit to Centigrade or Celsius Degrees

Subtract 32 from Fahrenheit temperature. Multiply result by 5. Divide result by 9.

#### Celsius or Centigrade to Fahrenheit

Multiply Centigrade temperature by 9. Divide result by 5. Add to 32.



# What to look for in a KMedic Certified Instrument.

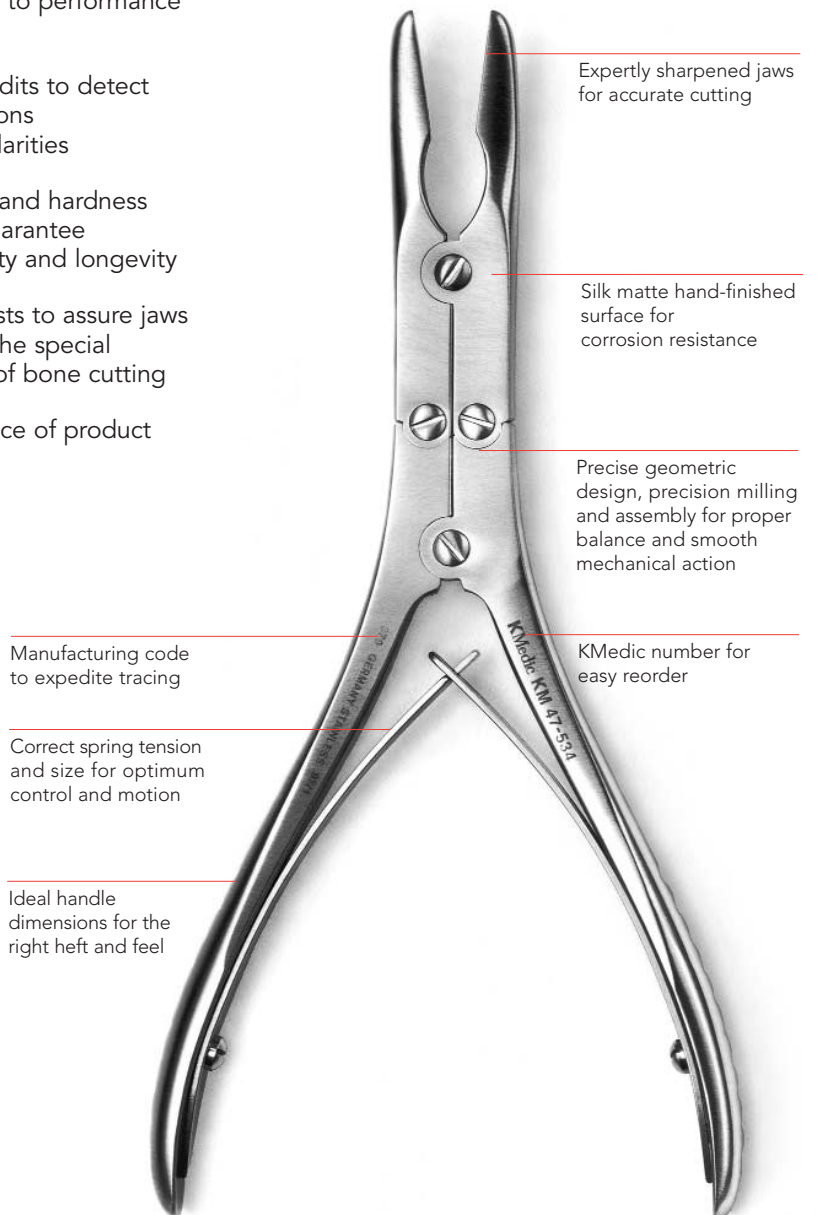
On the surface it's difficult to tell one instrument from another. But in fact, many qualities distinguish KMedic Certified Instruments from those of other manufacturers. Our instruments are the product of a working knowledge of the surgeon's art, exacting manufacturing specifications and strict adherence to our Quality Assurance Program. From its origins as an idea, to the crafting of the prototype, to its appearance on a surgical tray, it takes approximately 80 steps to create a KMedic Certified Instrument. Every finished instrument is the result of years of performance monitoring and continual improvements. Which is why we guarantee every KMedic Certified Instrument for life.

At every stage of the manufacturing process superior quality is built into our instruments. Nevertheless before our instruments find themselves in a surgeon's

hand, they are subject to an inspection process that includes:

- Visual inspection against a master sample to assure pattern consistency
- Exacting caliper and micrometer measurements of critical dimensions
- Function tests to ensure adherence to performance standards
- Surface audits to detect imperfections and irregularities
- Corrosion and hardness tests to guarantee functionality and longevity
- Cutting tests to assure jaws will meet the special demands of bone cutting
- Maintenance of product history

The Ruskin Rongeur, shown here, is typical of KMedic craftsmanship. From its perfect symmetry to its glare-diminishing finish, it provides surgeons with the qualities they require to perform at their best. A closer inspection reveals:



**KMedic**®

**KMedic**<sup>®</sup>

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Surgical  
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