

F · S · T

HANDCRAFTED PRECISION  
*for you*



FINE SCIENCE TOOLS

2026

# ORDERING INFORMATION



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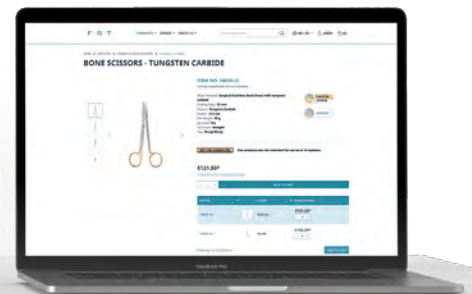
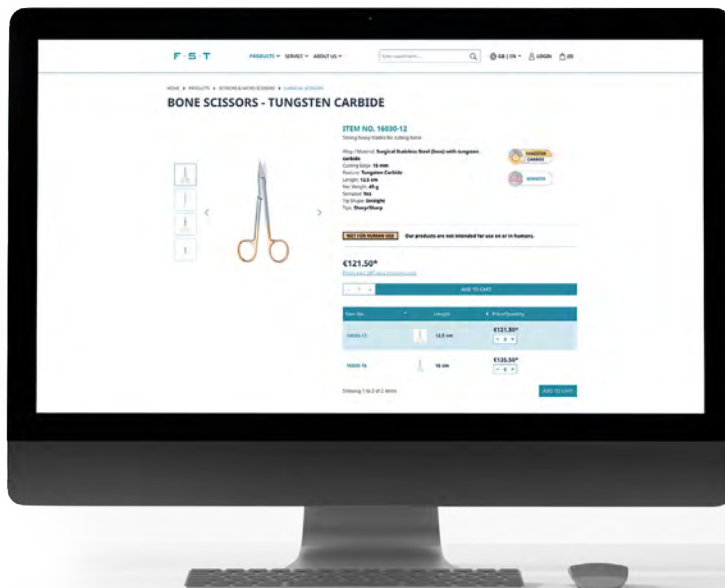
## ONLINE

finescience.com

For a complete explanation of our returns and exchange policies, please refer to our webshop.

# CHECK OUT OUR NEW WEBSHOP

**finescience.com**







Markus Gawenda  
Owner

## LETTER FROM THE OWNER

### Dear Valued Customers, Partners, and Friends,

As we celebrate our 51<sup>st</sup> year of precision, passion, and purpose, we extend our deepest gratitude to you; our valued partners, clients, and colleagues – who all are an integral part of this remarkable journey. From our humble beginnings to our global presence today, one thing has never changed: our unwavering commitment to quality, service, support, and innovation.

Behind every catalog page is a dedicated team that truly cares – not just about instruments, but about the people who use them. Whether you're a long-time customer or opening our catalog for the first time, we are here to guide you, collaborate with you, and deliver an experience rooted in trust, quality, and care.

This year, we are proud to unveil our theme: Smallville – a tribute to our unwavering attention to detail and profound commitment to craftsmanship. It serves as a powerful and imaginative symbol of the qualities that define us. Just as each miniature figure is meticulously crafting every cutting

edge, every curve, every tip and mechanism reflects the heart and soul we pour into our instruments. Every element matters and every customer deserves nothing less than excellence.

This commitment to precision extends beyond our instruments, it is also embedded in every aspect of our processes, on how best to serve you. We at Fine Science Tools (FST®) are always looking for smarter, more sustainable ways to help our community. We are actively rethinking materials, refining production processes, and protecting the health of our planet alongside the health of everyone. We are making conscious efforts at FST and every decision we make today considers the needs of tomorrow. Thank you for being a part of our story. Here's to the next chapter – built on precision, shaped by innovation, and guided by values that never go out of style.

Warmest regards, Markus Gawenda



### PICK YOUR PERFECT *match*

We value the smallest details – including your preferences. Choose whether you'd like to receive the FST catalog in digital, physical, or both formats.

Please refer to the enclosed bookmark for all the steps, or scan the code here:

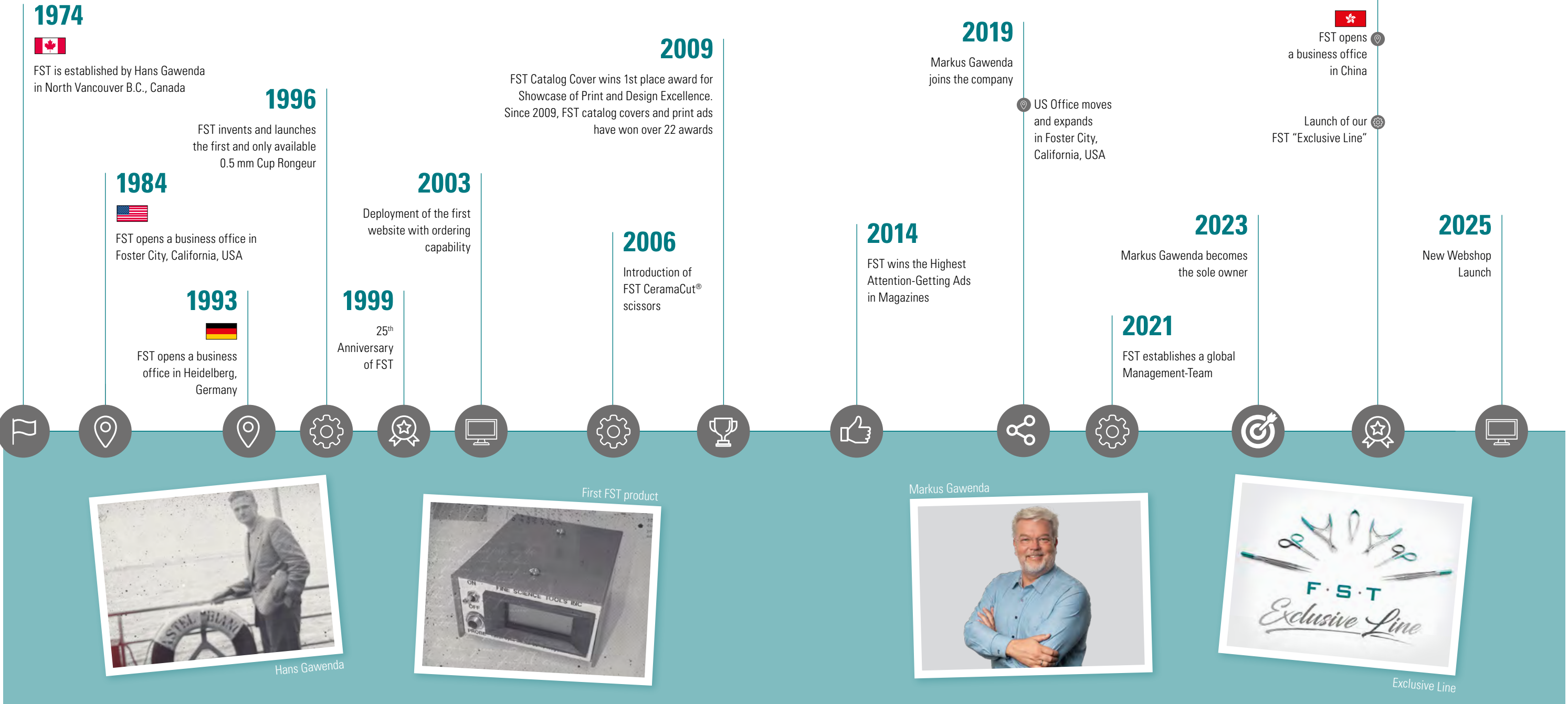


<https://fst-qr.com/mycatalog>

# TIMELINE

## FST® SINCE 1974

For more than 50 years, Fine Science Tools has been the leading distributor of precision surgical and microsurgical instruments, as well as laboratory accessories with offices in Foster City (USA), Heidelberg (Germany) and Hong Kong (China) supporting and serving customers across the globe.

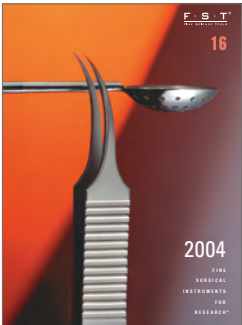
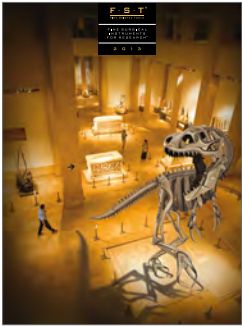
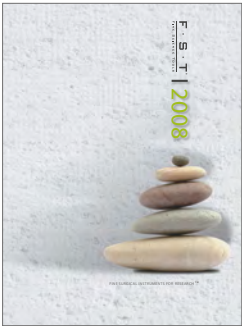
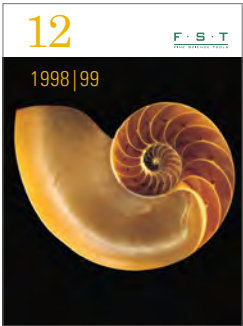




# CREATIVE DESIGNS

## CATALOG COVERS AND PRINT ADS

The unveiling of our annual marketing campaign reflects our passion and excitement for innovation and creativity year after year. FST® catalog covers and print Ads have won over 22 awards and are well known within the research community.



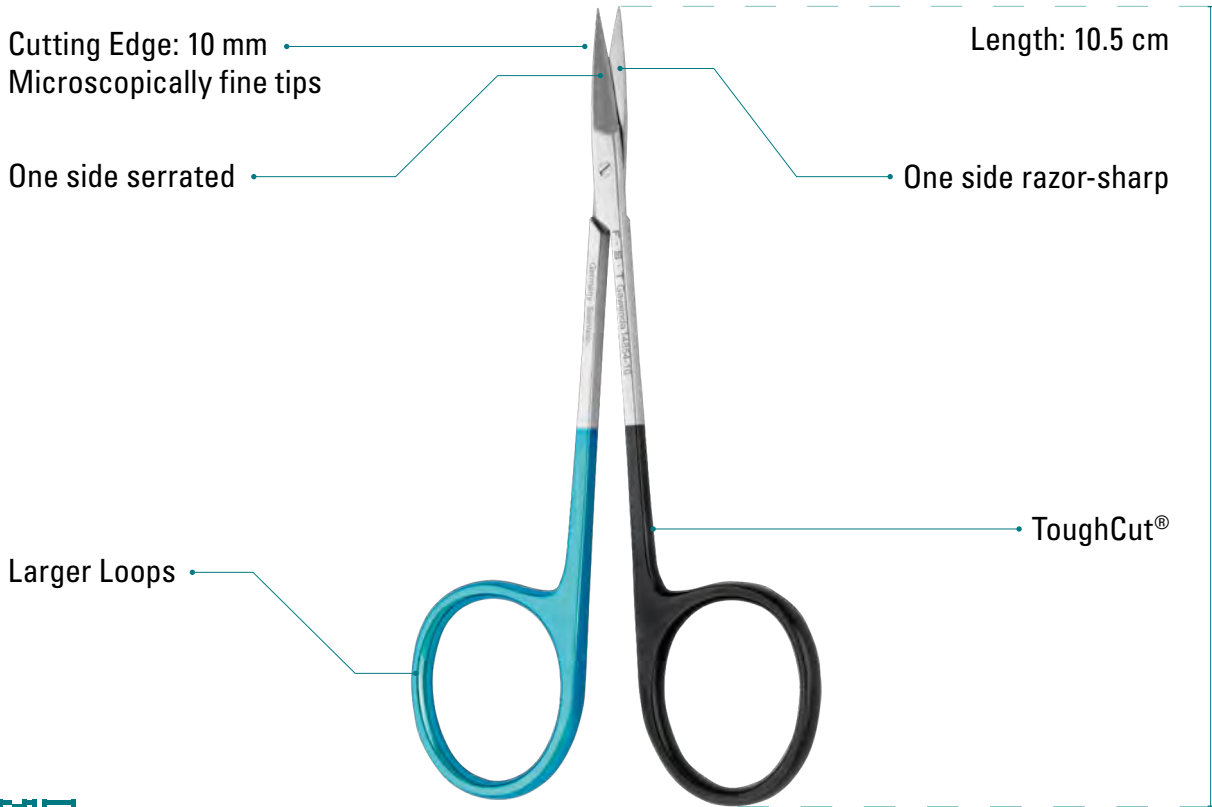
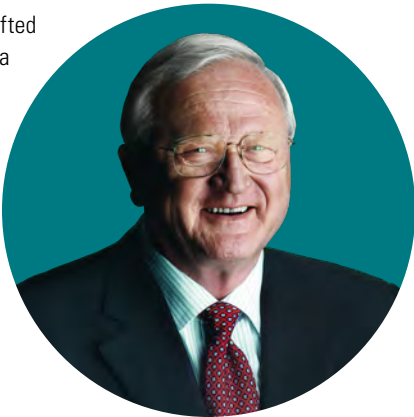


# EXCLUSIVE LINE

## BONN-GAWENDA SCISSORS

Our Exclusive Line was released on our 50th Anniversary, these instruments are meticulously crafted to support every aspect of your research needs. At the heart of this collection is the Bonn-Gawenda Scissors, created as a tribute to our founder, Hans Gawenda, and symbolizing our legacy of innovation and excellence. These scissors stand out for their advanced design and exceptional craftsmanship, reflecting the high standards that have always defined our work.

The ToughCut® technology incorporates one micro-serrated cutting edge paired with a razor-sharp blade, delivering consistently clean and precise cuts. These scissors have perfect tips for precision work under a microscope. Designed with comfort and ergonomics in mind, the large finger loops and specially engineered handle ensure exceptional control throughout each use.



Watch the video about the Bonn-Gawenda Scissors



F · S · T  
*Exclusive Line*

Our Exclusive Line offers a unique combination of popular features. Whether you're seeking elegance, stability and ergonomics, or versatile functionality, the Exclusive Line was specially designed to cater to every aspect of your needs.



Look for the Exclusive Line icon in the catalog.



14854-10

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16220-14

16221-14

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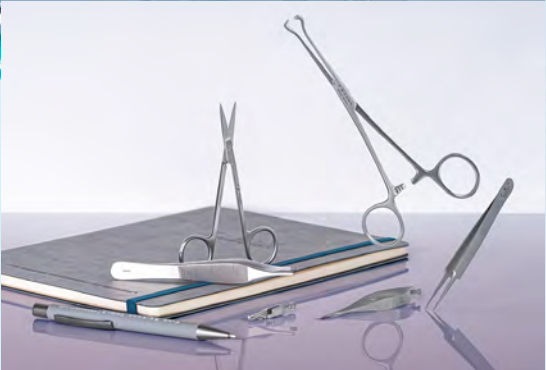
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TABLE OF CONTENTS | CATALOG 2026

Letter from the Owner	1
Timeline	2 – 3
Creative Designs	4 – 5
Exclusive Line	6 – 7
Table of Contents	8 – 9
Catalog Features	10 – 11
Precision that makes a mark	12 – 13
Handcrafted, Custom Design	12
Quality Control, Scissors Test	13
Our Range of Services	14 – 15
Overview	14
Sharpening & Repair	15
Alloys & Materials	16 – 17
Maintenance & Care	18 – 21

Index Pages	218 – 225
Numerical Index	218 – 221
Alphabetical Index	222 – 225



Scissors	23 – 55
Spring	23 – 34
Fine	35 – 48
Surgical	49 – 55
Bone Instruments	56 – 69
Rongeurs	56 – 59
Cutters	60 – 66
Accessories	67 – 68
Curettes & Chisels	69
Knives & Scalpels	70 – 81

Forceps/Tweezers	83 – 115
FST® by Dumont	83 – 92
Fine	93 – 96, 99 – 103
Moria	97 – 98
S&T®	98
Standard	104 – 115
Hemostats	116 – 121
Vascular Instruments	122 – 131
Clamps	122 – 126
Occluders & Ligation	127 – 128
Dilation & Cannulation	129 – 131

Probes & Hooks	133 – 138
Spatulae	139 – 142
Spoons	143
Pins & Holders	144 – 145
Wound Closure	146 – 156
Needle Holders & Suture	146 – 153
Staplers, Clips & Applicators	154 – 156
Retractors	157 – 163

Animal Accessories	165 – 170
Feeding Needles	165 – 166
Animal Identification	167 – 170
Instrument Care & Accessories	171 – 182
Instrument Care	171 – 172
Sterilization & Storage	173 – 182
Surgical Accessories	183 – 186
Drill Accessories	183
Cauterizers	184 – 186
Laboratory Accessories	187 – 197
Tools	187 – 191
Magnifiers & Lens Paper	192 – 197


Student Quality Instruments	200 – 217
Quality instruments with the student in mind	
Scissors	200 – 205
Scalpel Handles	206
Forceps	207 – 212
Hemostats	213 – 215
Pin & Needle Holders	216
Retractors, Vessel Dilator & Clamps	217

# CATALOG FEATURES

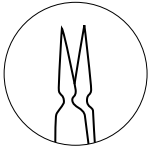
## PRODUCT FEATURES

To provide you with our support regarding your decisions in finding the right instruments for your purpose, the product feature details are explained below.


Most items in the catalog are shown in actual size.



Some items in the catalog have a magnified view of the tip.

  
300%

Most items in the catalog have an illustrated view of the tip.




**Straight Sharp / Sharp**

Length: 8 cm  
Cutting edge: 2 mm  
Tip Ø: 0.05 mm

No. 15000-03

Detailed item specifications.

Effective cutting edge



Total Blade length

## ICONS



The Exclusive Line offers a unique combination of popular features of our tools combined into one. Whether you're seeking elegance, stability and ergonomics, or versatile functionality, the Exclusive Line is specially designed to cater to every facet of your needs.



Fine Science Tools has noted which items are most frequently purchased for use in a variety of surgical procedures. To find our most popular items, look for the "most popular" icon throughout the catalog.



Our yearly selection of new instruments is based on a careful study and knowledge of our customer needs, as well as listening to their requests.



The tips have micro serrations to ensure a better grip on tissue or other materials.



These items are not suitable to autoclave, but can be sterilized by a different method. For example: hot bead sterilization, gas sterilization, plasma sterilization or hot air sterilization. Please contact us to receive more information regarding the best preferred method for your instruments.



Fine Science Tools is proud to offer a large selection of left-handed surgical instruments to our community. To find our left-handed instruments in this catalog, look for the "left-handed" icon on the pages below.

Scissors: pages 38, 49  
Hemostatic Forceps: page 117  
Needle Holders: pages 150 - 151  
Ligation Aid: page 128



FST® features a selection of scissors with larger than normal finger loops. Most of these loops are easily adjustable to fit larger fingers more comfortably. To find our large loop scissors please look for the "large loop" icon on the pages below.

Scissors: pages 35, 39, 48 and 51

F · S · T  
by DUMONT

WE PROUDLY STOCK

Fine Science Tools offers a wide selection of the latest and most popular Dumont forceps. Handcrafted in Switzerland for more than a century, these forceps are known for their consistent and uncompromised fineness.

Dumont forceps come in an array of styles and alloys. Below you will find detailed descriptions to help guide you in choosing the right Dumont forceps best suited for your needs.

## FINDING THE DUMONT FORCEPS BEST SUITED FOR YOUR NEEDS

Alloys	Hardness	Magnetic	Temperature resistance	Autoclavable	Advantages
Titanium	Least Hard	No	Up to 430 °C	Yes	Resistant to corrosion from nitric acid, chloride, and salt water. Titanium is 40% lighter than Surgical Stainless Steel.
Dumoxel	Hard	No	400 °C	Yes	The most popular alloy available for Dumont forceps offers the high resistance to corrosion, sulphuric environments, hydrochloric acids, and all other mineral and organic acids.
Inox	Harder	Yes	400 °C	Yes	Available for most Dumont forceps. Contains chromium added to carbon steel, which results in some loss of hardness but offers good stainless qualities and resistance to corrosion.
Dumostar	Harder	No	500 °C	Yes	More durable and corrosion resistant than the best Surgical Stainless Steel. Highly resistant to mineral and organic acids, and salt water. Dumostar lasts an average of four times longer than Dumoxel and Inox. Most cost effective alloy for laboratory use.
Carbon	Hardest	Yes	N/A	No	Extremely hard; ensuring strong tips. Easily stains and rusts without proper care. Carbon cannot be immersed in a water bath or sterilized.

**Tip profiles:** Dimensions vary. See each style for specific dimensions (width x thickness).

Standard	Made for high precision and consistently precise work under a microscope.
Biology	Twice as fine as "Standard Tips". Especially produced for high precision laboratory work under the microscope.
Super Fine Tips	Four times finer than the "Standard Tips". These tips are extremely delicate for the finest work under the microscope. Extra care is needed for these tips as they are very fragile.

### Styles

#2	Straight forceps with wide yet fine tips, referred to as Mouse Laminectomy Forceps because of their popularity in breaking off delicate bone from mouse skulls.
#2AP	Epoxy coated with flat wide blunt tips.
#3	Long straight forceps with coarse tips. Popular in low magnification procedures.
#3C	Shorter version of #3.
#4	Similar to the #5 but with broader shanks and stronger tips.
#5	Most popular style of Dumont straight forceps with fine tips which come in several styles.
#55	Similar to the #5 but with lighter shanks, giving the forceps a lighter spring action.
#5CO	Similar to the #55 but with even finer shanks producing the lightest spring action and longest meeting surface of any Dumont style.
#5L	Medical #5 forceps with slide sleeve for a secure hold and retention.
#5SF	The finest tips ever produced by Dumont.

#5XL	Extra Long #5 forceps.
#5/45	Tips angled at 45°.
#5/45C	Designed to pick up cover slips from multi-well plates.
#5/90	Tips angled at 90°.
#5AC	Self-closing Anti-Capillary forceps.
#6	Sharply angled, broad tips.
#7	Most popular style of Dumont curved forceps with fine tips which come in several styles.
#7B	Curved serrated tips.
AA	Strong broad tips.
M	Mini forceps.
Medical	Denotes distinctive ribbed handle to maximize grip.
SS	Long and narrow shanks with thin tips.
WA	One piece design with no soldering grooves allows the forceps to be thoroughly and easily cleaned preventing biofilm residue.



# PRECISION THAT MAKES A MARK



## HANDCRAFTED

Our highly skilled and experienced surgical mechanics refine and perfect our instruments in Fine Science Tools' very own workshop, a step that only we take in this manner. This is crucial for the precision and consistent quality of our products. For example, our Friedmann-Pearson rongeurs with a tip diameter of 0.5 or 0.7 mm are unique in the world.

Our spring scissors have also established themselves in the research industry and are unsurpassed in their fineness. The result: a level of quality to be proud of – and to which we have now committed ourselves to. Our "Handcrafted" symbol stands for 100% guaranteed craftsmanship and instruments that you can rely on today, tomorrow, and always.



## CUSTOM DESIGN

Whether you are seeking a personalized, one-of-a-kind instrument tailored to your specific requirements or interested in building a specialized application kit, we have the expertise and resources to deliver. Through our extensive network of expert partners and collaborations with leading institutions and companies, we offer custom-

manufactured instruments, carefully curated instrument kits, and co-branded sets designed for collaborative projects. Additionally, we provide special modifications to our existing products, ensuring a perfect fit for your unique applications. Interested? Get in touch with one of our offices – we're happy to assist you!



## QUALITY CONTROL

The exceptional quality of our surgical and microsurgical instruments is a direct result of our relentless commitment to detail and craftsmanship. Nearly every instrument we offer is meticulously crafted by skilled European artisans and engineered to exacting specifications. We use only premium Surgical Stainless Steel and subject each instrument to rigorous testing

to ensure outstanding precision, durability, and ergonomic performance. We proudly uphold Supreme German Quality Standards. At our office in Germany, experienced technicians conduct thorough inspections of our instruments. Every detail is carefully evaluated – from tip sharpness and cutting edges to springs, joints, and overall construction.



## SCISSORS TEST

**Does paying more for a pair of scissors really buy more value and a longer cutting life?**

The picture shows our cutting test for ring scissors based on the standards and specifications of surgical instruments in our office in Heidelberg. Each pair of scissors must perform a smooth cut without tearing or fraying the material, specifically at the fine tips. In addition, a specialized long-term test is done to identify the longevity of other featured alloys and cutting edges, Tungsten Carbide

and ToughCut®. In this test the scissors will repeatedly cut through a continuous feed of cotton cloth and a counter keeps track of the number of cuts made to evaluate when the scissors begin to show a decrease in cutting quality.

The results showcase the addition of added features dramatically increases the cutting life of the scissors. Most notably, the cutting life is more than doubled with the addition of ToughCut® blades and over six times longer with our CeramaCut® feature.

# OUR RANGE OF SERVICES

**50 YEARS OF EXPERIENCE**  
Leading distributor of of surgical and microsurgical instruments

**100% SATISFACTION GUARANTEE**  
Full refund, if you're not satisfied

**PRODUCT AVAILABILITY**  
Extensive stock ensures fast delivery times

**FAST DELIVERY TIMES**  
2–3 days in Europe & America, 5–7 days worldwide

**TECHNICAL PRODUCT CONSULTATION**  
Phone- or video-calls for app-based-solutions with our experts

**CUSTOM DESIGN**  
Personalized & unique tailored instruments

**REPAIR AND MAINTENANCE SERVICE**  
Contact us or your designated representative for your personal offer

**PERSONALIZED CUSTOMER SUPPORT**  
Available from Monday to Friday (8 am to 5 pm)

**SUPREME GERMAN QUALITY STANDARDS**  
Our instruments are inspected, refined and optimized by hand

**TRADE SHOW PRESENCE**  
Meet us for hands-on-experience & on-site-advice; check our webshop for upcoming events

“ IF YOU ARE NOT COMPLETELY SATISFIED WITH YOUR PURCHASE, YOU MAY RETURN IT FOR A FULL REFUND. ”

Hans Gawenda, Founder  
Fine Science Tools Inc.

## SHARPENING & REPAIR

In our very own workshop in Heidelberg, Germany we not only manufacture and customize specific instruments according to customer requirements, but also offer a repair service.

- General repairs
- Sharpening
- Adjustments & corrections
- Cleaning & reconditioning
- Replacements
- Special requests & custom corrections



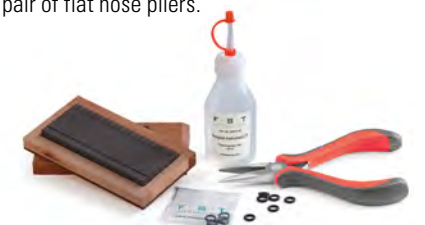
Our specialized sharpening service offers the highest quality and reliability to restore the original sharpness and functionality of the instrument.

Each blade undergoes a thorough inspection for wear, cracks, and other irregularities before sharpening. It is then precisely ground to the optimal angle to ensure superior cutting performance.

With our extensive expertise, we ensure your instruments are repaired with the highest precision, maximizing their longevity and efficiency.

Each instrument is carefully checked for damage, wear and functionality, followed by a quality check after repair. Our team is also available for repairs of your instruments which have not been purchased from FST®.

For do-it-yourself sharpening, we offer a kit (page 171), which includes a sharpening stone, O-rings, a bottle of instrument oil (50 ml) and a pair of flat nose pliers.





# ALLOYS & MATERIALS

There are various special alloys and materials with advanced features, that are used to produce surgical and microsurgical instruments with each having certain properties that would be advantageous in particular

environments or applications. We will introduce these alloys and materials, describe their benefits and highlight unique tools that may be ergonomic and overall helpful for your studies and/or protocols.



### ToughCut® Scissors

- Identified by black finger rings
- Last approx. 2.3x longer than Surgical Stainless Steel
- One cutting edge has micro serrations to minimize tissue slippage
- The other cutting edge has increased sharpness
- Available as ring and spring scissors



### Tungsten Carbide Instruments

- Identified by short gold-plated handles
- Last approx. 1.9x longer than Surgical Stainless Steel
- Reinforced with tungsten carbide for enhanced durability
- One of the hardest alloys available
- Available instruments: scissors, forceps, needles, needle holders and burrs



### CeramCut® Scissors

- Identified by long gold-plated finger rings and a black coating
- Combine Tungsten Carbide and ToughCut® cutting edges with a ceramic coating
- Last approx. 6.6x longer than Surgical Stainless Steel
- Reduced glare
- Reduced surface tension for cleaner cuts
- Increased corrosion resistance



### Tungsten Carbide & ToughCut® Scissors

- Identified by long gold-plated finger rings
- Last approx. 4.1x longer than Surgical Stainless Steel
- Cutting edges reinforced with tungsten carbide for enhanced durability
- One cutting edge has micro serrations to minimize tissue slippage
- The other cutting edge has increased sharpness



### Titanium Instruments

- Approx. 40% lighter than Surgical Stainless Steel
- Softer alloy than Surgical Stainless Steel
- Corrosion resistance (cannot rust)
- 100% non-magnetic
- Available instruments: spring scissors, forceps, probes, hooks, spatula and vascular clamps



### Ceramic coated Instruments

- Identified by full black colour
- Last approx. 2.3x longer than Surgical Stainless Steel
- Increased corrosion resistance
- Reduced glare
- High slide capacity of ceramic reduces surface tension for cleaner cuts
- Available instruments: Dumont forceps, scissors

### Surgical Stainless Steel

- Used for most of our instruments
- High alloyed Surgical Stainless Steel (min. 12% chromium)
- Corrosion resistance
- Sterilizable in various ways



Learn more about  
our Alloys & Materials



# MAINTENANCE & CARE

Proper care of your surgical instruments will improve their longevity and function. Below are different cleaning, sterilization, and maintenance processes to guide you through your techniques.

- Clean and thoroughly dry your instruments as soon as possible after each use, paying special attention to joints, hinges, and anywhere there is metal to metal contact.
- Ensure that all organic material residues are completely removed.
- Handle your instruments delicately and with care.
- Use your instruments for their intended purpose.
- Store your instruments with tip protectors, and always place them so that they do not touch each other.



## CLEANING

Fine surgical instruments should be cleaned immediately after use. Blood or saline solutions left on instruments for any length of time can quickly start corrosive action. Time, temperature, and agitation play important roles in the cleaning process. Time affects the efficiency of cleaning solutions as most are effective after a certain time period. Higher temperature cleaning solutions result in better cleaning. During manual or ultrasonic cleaning it is helpful to loosen any surgical residue. Before any of the procedures below, rinse your instruments under warm running water to remove all blood and tissue. Instruments can be cleaned manually or ultrasonically, but always:

- Use a neutral pH (pH7) cleaning solution.
- Clean instruments in the open position to ensure a thorough and effective cleaning process.
- Use soft textile or paper cloths, soft plastic brushes made of nylon, or water spray bottle.
- ⚠️ • Do NOT use steel wool, wire brushes, or scouring pads as these are abrasive to the instruments.



## MANUAL CLEANING

- Make sure all instruments are visibly clean and free from stains, wiping them carefully to remove all blood and tissue matter.
- Rinse instruments thoroughly with distilled water, paying close attention to joints and hinges as these areas can accumulate unwanted material.
- Air dry your instruments completely and use a can of compressed air to blow out any water at the joints and hinges. Then store them only in clean and dry environments.



## ULTRASONIC CLEANING

Ultrasonic cleaning is the most effective cleaning method. The vibrating sound waves create micron-sized bubbles in the solution that grow with the alternating pressure. When the bubbles reach a particular size, they collapse creating a force that dislodges dirt and particles, even in the smallest of crevices.

- ⚠️ • NOT recommended for delicate and micro instruments.
- Follow the manufacturer's guidelines for specific instructions and cleaning cycle times.
- Instruments should be processed for the full recommended cycle time.
- Place instruments in the open position in the ultrasonic cleaner.
  - ⚠️ - Do NOT allow instruments with sharp blades to touch other instruments.
  - ⚠️ - Do NOT place dissimilar metals (stainless, copper, chrome plated) in the same cleaning cycle.
  - Make sure all instruments are completely submerged.
- After the ultrasonic cleaning cycle is complete, rinse instruments thoroughly to remove all ultrasonic cleaning solution.
- Dry instruments thoroughly with a clean towel.
- Use a spray lubricant in the hinges to minimize the risk of corrosion and maintain functionality.



## STEAM STERILIZATION/AUTOCCLAVING

The autoclave process utilizes moist heat (or steam) under pressure for sterilization. The steam used must be from distilled water and free of all impurities.

- ⚠️ • Lubricate all instruments that have any metal to metal interaction such as; scissors, rongeurs, needle holders, hemostats, and retractors. Do NOT use WD-40 or other industrial lubricants.
- Instruments may be autoclaved individually or in sets.
  - Individual instruments: Disposable wraps or sterilization pouches are ideal. Make sure the pouch size is sufficient for the instrument to be in an open (unlocked) position.
  - Instrument sets: Open and unlock all instruments. Place the heavier instruments on the bottom of the set when two layers are needed.
- ⚠️ • Do NOT lock instruments during autoclaving. This will prevent the steam from reaching and sterilizing the metal to metal surfaces, and heat expansion during autoclaving can cause cracks in the hinge areas.
- ⚠️ • Do NOT over load the autoclave chamber as this may hinder steam penetration.
- Place a towel on the bottom of the pan to absorb excess moisture during autoclaving. Make sure the towel has no detergent residue and is pH neutral if immersed in water.
- At the end of the autoclave cycle (before the drying cycle) unlock the autoclave door and open it slightly. Run the dry cycle for the recommended time period by the autoclave manufacturer.

*Please note: If the autoclave door is fully opened before the drying cycle, cold air will rush into the chamber, which can cause condensation on the instruments. This will result in water stains on the instruments.*



## HOT BEAD STERILIZATION

Recommended for speed and convenience when instrument tips or blade sterilization is required. The Hot Bead Sterilizer does not use dangerous gases, flames, or chemicals. Highlights:

- Bench top set up.
- Only 20 seconds of contact required to ensure your instruments are free of pathogens and microbial contaminants.
- Beads reach temperature of 240–270 °C (464-518 °F) within 15–20 minutes heating time.

*Please see page 174–175 for more information on the FST® Hot Bead Sterilizers.*



## ETHYLENE OXIDE (ETO) STERILIZATION

This method is recommended for instruments that will not tolerate high temperatures or moisture (e.g., catheters, cannulae, etc.). This is a process consisting of 4 primary variables; gas concentration, humidity, temperature and time.

*Wraps available, see page 176*



## STORAGE

Surgical instruments should be properly stored in a clean and dry environment. It is highly recommended to use tip protectors and instrument cases to avoid possible damage to your instruments.

*Instrument tip protectors are available, see page 182*

*Instrument cases are available, see pages 178–181*



## OXIDATION (RUST)

All FST® Surgical Stainless Steel instruments are manufactured from medical grade Stainless Steel under strict European standards. It is very important to properly take care of your instruments to extend their lifespan.

Although Surgical Stainless Steel is corrosive resistant, it can still rust or stain if handled improperly. Under unfavorable conditions instruments may oxidize because Surgical Stainless Steel that is exposed to physical, thermal, or chemical manipulations may lose some of its stainless properties.



SCISSORS,  
BONE INSTRUMENTS,  
KNIVES & SCALPELS

Spring Scissors	23 – 34
Fine Scissors	35 – 48
Surgical Scissors	49 – 55
Bone Instruments	56 – 69
Knives & Scalpels	70 – 81



Vannas

These Vannas-style spring scissors have the smallest blades ever produced. They are ideal where space is restricted and where absolute precision is demanded.



Vannas

The short taper is ideal for small, precise cuts.



Vannas

The long taper is ideal for cutting vessel walls or when a longer cutting edge is needed.



**Straight  
Sharp/Sharp**

8 cm  
Cutting edge: 2.5 mm  
Tip Ø: 0.05 mm

No. 15000-08



**Straight  
Sharp/Sharp**

8 cm  
Cutting edge: 2 mm  
Tip Ø: 0.05 mm

No. 15000-03



**Curved  
Sharp/Sharp**

8 cm  
Cutting edge: 2 mm  
Tip Ø: 0.05 mm

No. 15000-04



**Curved  
Sharp/Sharp**

8 cm  
Cutting edge: 2.5 mm  
Tip Ø: 0.05 mm

No. 15001-08



**Angled to side  
Sharp/Sharp**

8 cm  
Cutting edge: 2.5 mm  
Tip Ø: 0.05 mm

No. 15002-08



**Straight  
Sharp/Sharp**

8 cm  
Cutting edge: 3 mm  
Tip Ø: 0.05 mm

No. 15000-00



**Curved  
Sharp/Sharp**

8 cm  
Cutting edge: 3 mm  
Tip Ø: 0.05 mm

No. 15000-10



Vannas-Tübingen

Vannas Highly Polished

Vannas Round Handled

Vannas with Microserrations

Vannas

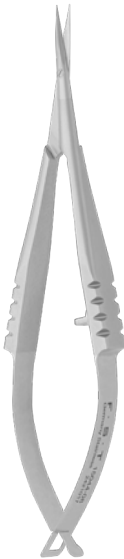
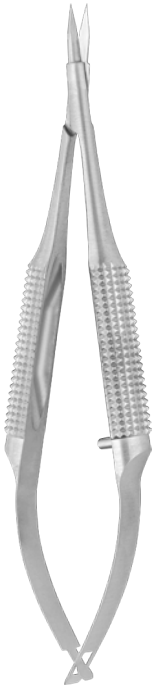
Vannas

The highly polished surface makes the scissors more resistant to corrosion and easier to clean. It also prevents tissue from sticking on it while operating, it's also called non-sticky surface.

The round handle allows an easy finger adjustment during the application. The hollow grind in the handle reduces the weight. The fine blades are tapered to give a better overview.

Microserrated to minimize slippage.

Ultra long cutting edge without sacrificing tip width.



**Straight  
Sharp/Sharp**

8.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.05 mm

No. 15003-08



**Angled up  
Sharp/Sharp**

8.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.05 mm

No. 15005-08



**Curved  
Sharp/Sharp**

8.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.05 mm

No. 15004-08



**Angled to side  
Sharp/Sharp**

8.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.05 mm

No. 15008-08



**Straight  
Sharp/Sharp**

8.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.05 mm

No. 15903-08



**Curved  
Sharp/Sharp**

8.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.05 mm

No. 15904-08



**Straight  
Sharp/Sharp**

9 cm  
Cutting edge: 5 mm  
Tip Ø: 0.05 mm

No. 15403-08



**Curved  
Sharp/Sharp**

9 cm  
Cutting edge: 5 mm  
Tip Ø: 0.05 mm

No. 15404-08



**Straight  
Sharp/Sharp**

9 cm  
Cutting edge: 8 mm  
Tip Ø: 0.1 mm

No. 15007-08



**Straight  
Sharp/Sharp**

8.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.1 mm

No. 15070-08



**Curved  
Sharp/Sharp**

8.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.1 mm

No. 15071-08



**Straight  
Sharp/Sharp**

8 cm  
Cutting edge: 5 mm  
Tip Ø: 0.1 mm

No. 15044-08



**Curved  
Sharp/Sharp**

8 cm  
Cutting edge: 5 mm  
Tip Ø: 0.1 mm

No. 15043-08



**Straight  
Sharp/Sharp**

9 cm  
Cutting edge: 8 mm  
Tip Ø: 0.1 mm

No. 15009-08

Vannas

Finished under high magnification, these tips are especially useful when incising vessel walls for catheter insertion.

Moria

Vannas Titanium



Cohan-Vannas

Long cutting blades for a more controlled cut.

Micro



Ceramic Coated



Ceramic Coated Titanium



Moria 9600



**Straight Sharp/Sharp**

9.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.3 mm

No. 15610-08



**Straight Sharp/Sharp**

6 cm  
Cutting edge: 6 mm  
Tip Ø: 0.1 mm

No. 15000-02



**Curved Sharp/Sharp**

6 cm  
Cutting edge: 6 mm  
Tip Ø: 0.1 mm

No. 15000-01



**Straight Sharp/Sharp**

10 cm  
Cutting edge: 7 mm  
Tip Ø: 0.1 mm

No. 15024-10



**Straight Sharp/Sharp**

10 cm  
Cutting edge: 7 mm  
Tip Ø: 0.1 mm

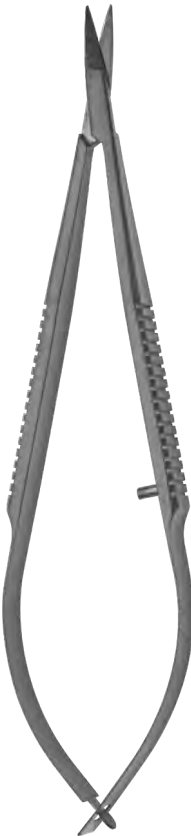
No. 15750-11



**Curved Sharp/Sharp**

10 cm  
Cutting edge: 7 mm  
Tip Ø: 0.1 mm

No. 15751-11



**Straight Sharp/Sharp**

11 cm  
Cutting edge: 5 mm  
Tip Ø: 0.2 mm

No. 15650-11



**Curved Sharp/Sharp**

11 cm  
Cutting edge: 5 mm  
Tip Ø: 0.2 mm

No. 15651-11



**Straight Sharp/Sharp**

8 cm  
Cutting edge: 5 mm  
Tip Ø: 0.15 mm

No. 15396-00



**Curved Sharp/Sharp**

8 cm  
Cutting edge: 5 mm  
Tip Ø: 0.15 mm

No. 15396-01



**Curved Sharp/Sharp**

9.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.3 mm

No. 15615-08



**Angled up Sharp/Sharp**

9.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.3 mm

No. 15617-08



**Straight Blunt/Blunt**

6 cm  
Cutting edge: 6 mm  
Tip Ø: 0.3 mm

No. 15000-12



**Curved Blunt/Blunt**

6 cm  
Cutting edge: 6 mm  
Tip Ø: 0.3 mm

No. 15000-11



**Straight Blunt/Blunt**

10 cm  
Cutting edge: 7 mm  
Tip Ø: 0.3 mm

No. 15025-10



**Curved Sharp/Sharp**

10 cm  
Cutting edge: 7 mm  
Tip Ø: 0.1 mm

No. 15023-10



Castroviejo

Castroviejo with Ball Tip

Same as No. 15006-09 but with a ball tip (Ø 1.3 mm) to prevent piercing of underlying tissue.

Castroviejo

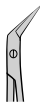
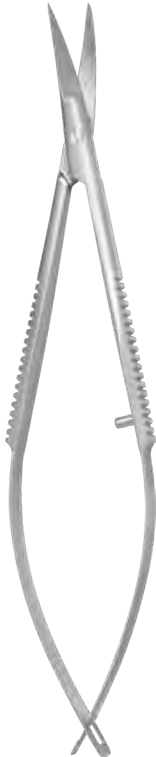
Vannas

Angled Up

These spring scissors aid in cutting tissues from various angles.

Dowell

Moria



Angled to side  
Sharp/Sharp

10 cm  
Cutting edge: 10 mm  
Tip Ø: 0.1 mm

No. 15006-09



Angled to side  
Sharp/Ball tip

10 cm  
Cutting edge: 8 mm  
Tip Ø: 1.3 mm

No. 15033-09



Curved  
Sharp/Sharp

11 cm  
Cutting edge: 10 mm  
Tip Ø: 0.2 mm

No. 15017-10



Straight  
Sharp/Sharp

10 cm  
Cutting edge: 7 mm  
Tip Ø: 0.15 mm

No. 15370-52



Curved  
Sharp/Sharp

10 cm  
Cutting edge: 7 mm  
Tip Ø: 0.15 mm

No. 15370-50

Moria MC52

Moria MC50



Angled up  
Sharp/Sharp

9.5 cm  
Cutting edge: 2 mm  
Tip Ø: 0.1 mm

No. 15010-09



Angled up  
Sharp/Sharp

10 cm  
Cutting edge: 4 mm  
Tip Ø: 0.1 mm

No. 15010-10



Straight  
Sharp/Sharp

11.5 cm  
Cutting edge: 10 mm  
Tip Ø: 0.1 mm

No. 15040-11



Angled up  
Sharp/Sharp

11.5 cm  
Cutting edge: 10 mm  
Tip Ø: 0.1 mm

No. 15042-11

Vannas Long Handle

Westcott

Pascheff-Wolff

Very delicate blades.

Noyes

Noyes Tungsten Carbide

Tungsten carbide cutting edges provide long lasting sharpness.



Moria MC19/B



**Straight  
Sharp/Sharp**

10 cm  
Cutting edge: 4 mm  
Tip Ø: 0.1 mm

No. 15018-10



**Curved  
Sharp/Sharp**

10 cm  
Cutting edge: 4 mm  
Tip Ø: 0.1 mm

No. 15019-10



**Curved  
Sharp/Sharp**

11 cm  
Cutting edge: 15 mm  
Tip Ø: 0.2 mm

No. 15015-11



**Angled up  
Sharp/Sharp**

10.5 cm  
Cutting edge: 3 mm  
Tip Ø: 0.15 mm

No. 15371-92



**Straight  
Sharp/Sharp**

12 cm  
Cutting edge: 14 mm  
Tip Ø: 0.2 mm

No. 15012-12



**Curved  
Sharp/Sharp**

12 cm  
Cutting edge: 14 mm  
Tip Ø: 0.2 mm

No. 15011-12



**Angled up  
Sharp/Sharp**

12 cm  
Cutting edge: 14 mm  
Tip Ø: 0.2 mm

No. 15013-12



**Straight  
Sharp/Sharp**

12 cm  
Cutting edge: 14 mm  
Tip Ø: 0.2 mm

No. 15514-12



Micro 2000 ToughCut®

Vannas Round Handled

Round handles allow easy fingertip adjustments.

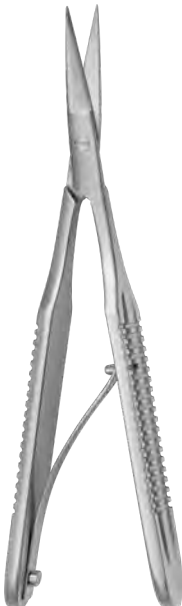
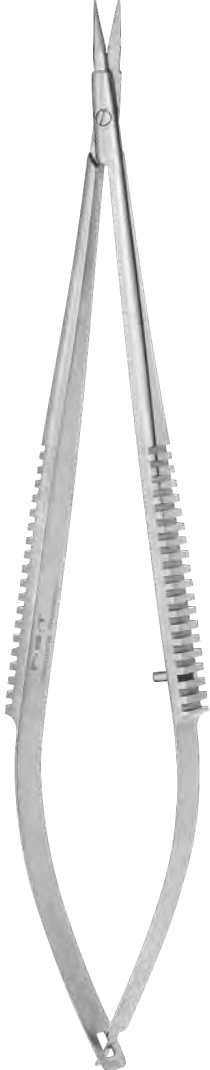
Micro

Clipper

For microscopic dissections of soft and mucous tissue. The minute fineness of the blades allows clear visualization of the tissue being dissected.

Trident II

Special design with short handle and inner spring.



**Straight  
Sharp/Sharp**

12.5 cm  
Cutting edge: 6 mm  
Tip Ø: 0.3 mm

No. 15124-12



**Curved  
Sharp/Sharp**

12.5 cm  
Cutting edge: 6 mm  
Tip Ø: 0.3 mm

No. 15123-12



**Straight  
Sharp/Sharp**

12.5 cm  
Cutting edge: 6 mm  
Tip Ø: 0.05 mm

No. 15400-12



**Curved  
Sharp/Sharp**

12.5 cm  
Cutting edge: 6 mm  
Tip Ø: 0.05 mm

No. 15401-12



**Straight  
Sharp/Sharp**

14 cm  
Cutting edge: 6 mm  
Tip Ø: 0.1 mm

No. 15020-15



**Curved  
Sharp/Sharp**

14 cm  
Cutting edge: 6 mm  
Tip Ø: 0.1 mm

No. 15021-15



**Straight  
Sharp/Sharp**

8 cm  
Cutting edge: 3 mm  
Tip Ø: 0.05 mm  
Blade shape: Triangular

No. 15200-00



**Straight  
Sharp/Sharp**

8 cm  
Cutting edge: 8 mm  
Tip Ø: 0.2 mm

No. 15110-08



**Angled to side  
Sharp/Sharp**

8 cm  
Cutting edge: 8 mm  
Tip Ø: 0.2 mm

No. 15111-08

Uses:

- Removing sheath of ganglia to access neurons in aplysia.
- Cutting single nerve axons in aplysia, mollusk and snail.
- Stripping fascia off arteries and muscles.
- Ultra fine brain tissue dissection.
- Cutting of minute fiber optic strands.

Micro with Pen-Type Handle

With microserrations to minimize slippage.

Micro with Pen-Type Handle

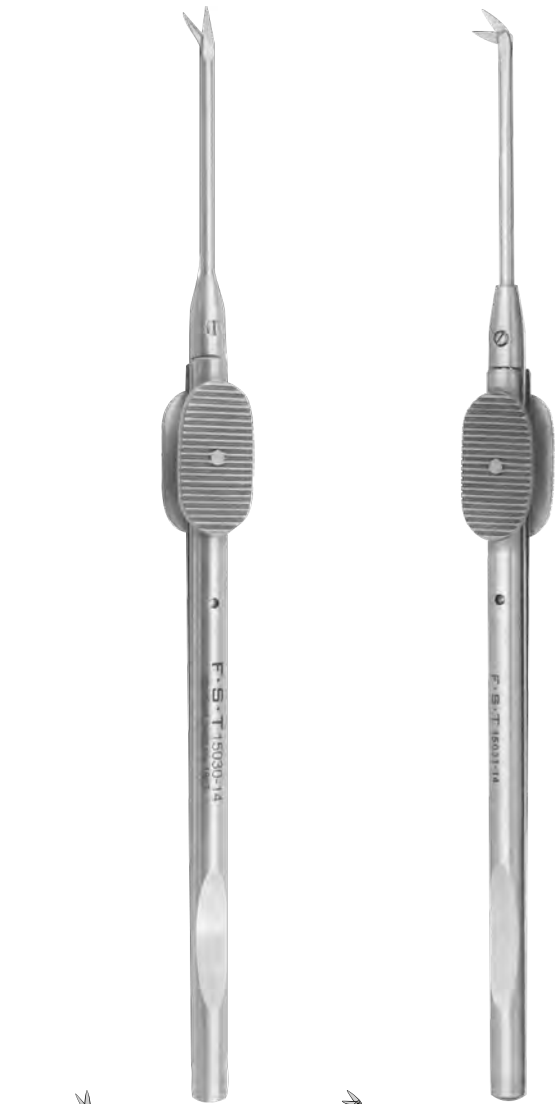
The finest blades on spring scissors. Designed for ophthalmic surgery (vitrectomy). The spring handles are made of ribbed plastic to ensure a solid grip. **Autoclavable.**


Bonn-Gawenda


The innovative Bonn-Gawenda Scissors from our Exclusive Line combine a precise cutting edge, similar to our spring scissors and our ToughCut® feature which ensures an exact cut without slipping. These scissors have perfect tips for precision work under a microscope. Designed with comfort and ergonomics in mind, the large finger loops and specially engineered handle ensure exceptional control throughout each use.

Bonn

Our finest iris scissors, best suited for microdissection under high magnification.




  
**Straight Sharp/Sharp**  
14.5 cm  
Cutting edge: 2.5 mm  
Tip Ø: 0.3 mm  
**No. 15030-14**


  
**Angled to side Sharp/Sharp**  
14.5 cm  
Cutting edge: 2.5 mm  
Tip Ø: 0.3 mm  
**No. 15031-14**


  
**Straight Sharp/Sharp**  
14 cm  
Cutting edge: 2.2 mm  
Tip Ø: 0.05 mm  
**No. 15036-14**

  
**Angled to side 90° Sharp/Sharp**  
14 cm  
Cutting edge: 1 mm  
Tip Ø: 0.05 mm  
**No. 15037-14**

  
**Straight Sharp/Sharp**  
10.5 cm  
Cutting edge: 10 mm  
**No. 14854-10**

  
**Curved Sharp/Sharp**  
10.5 cm  
Cutting edge: 10 mm  
**No. 14855-10**

  
**Straight Sharp/Sharp**  
9 cm  
Cutting edge: 10 mm  
**No. 14084-08**

  
**Curved Sharp/Sharp**  
9 cm  
Cutting edge: 10 mm  
**No. 14085-08**

  
**Straight Sharp/Blunt**  
9 cm  
Cutting edge: 10 mm  
**No. 14083-08**



Bonn Highly Polished

Highly polished.



Bonn-Strabismus ToughCut®

A fusion of two light and delicate iris scissors with ToughCut cutting edges.



Iris Partly Polished

These scissors have an anti-reflective finish to reduce glare.



Iris Sandblasted

Made from Martensitic Surgical Stainless Steel, combined with Molybdenum and Vanadium.



Iris

Delicate pattern.



**Straight Sharp/Sharp**  
9 cm  
Cutting edge: 10 mm  
**No. 14184-09**

**Curved Sharp/Sharp**  
9 cm  
Cutting edge: 10 mm  
**No. 14185-09**

**Straight Blunt/Blunt**  
8.5 cm  
Cutting edge: 10 mm  
**No. 14084-09**

**Curved Blunt/Blunt**  
8.5 cm  
Cutting edge: 10 mm  
**No. 14085-09**

**Straight Sharp/Sharp**  
9 cm  
Cutting edge: 16 mm  
**No. 14090-09**

**Curved Sharp/Sharp**  
9 cm  
Cutting edge: 16 mm  
**No. 14091-09**

11 cm  
Cutting edge: 16 mm  
**No. 14090-11**

11 cm  
Cutting edge: 16 mm  
**No. 14091-11**

**Straight Sharp/Sharp**  
10.5 cm  
Cutting edge: 16 mm  
**No. 14094-11**

**Curved Sharp/Sharp**  
10.5 cm  
Cutting edge: 16 mm  
**No. 14095-11**

**Straight Sharp/Sharp**  
9 cm  
Cutting edge: 16 mm  
**No. 14060-09**

**Curved Sharp/Sharp**  
9 cm  
Cutting edge: 16 mm  
**No. 14061-09**

**Curved to side Sharp/Sharp**  
9 cm  
Cutting edge: 16 mm  
**No. 14062-09**

**Angled to side Sharp/Sharp**  
9 cm  
Cutting edge: 16 mm  
**No. 14063-09**

10.5 cm  
Cutting edge: 16 mm  
**No. 14060-10**

10.5 cm  
Cutting edge: 16 mm  
**No. 14061-10**

10.5 cm  
Cutting edge: 16 mm  
**No. 14062-10**

11.5 cm  
Cutting edge: 16 mm  
**No. 14060-11**

11.5 cm  
Cutting edge: 16 mm  
**No. 14061-11**

Iris Left Handed

Moria Iris

Iris Extra Narrow

Extra narrow, delicate pattern. Very slim blades with gentle cutting action.

Iris Large Loops

Wagner



Moria



14070-12  
14071-12



Moria 4877A



Straight  
Sharp/Sharp

11.5 cm  
Cutting edge: 18 mm

No. 14160-10



Curved  
Sharp/Sharp

11.5 cm  
Cutting edge: 18 mm

No. 14161-10



Straight  
Sharp/Sharp

10 cm  
Cutting edge: 16 mm

No. 14370-22



Straight  
Sharp/Sharp

10.5 cm  
Cutting edge: 16 mm

No. 14088-10



Straight  
Sharp/Sharp

10 cm  
Cutting edge: 16 mm

No. 14040-10



Curved  
Sharp/Sharp

10 cm  
Cutting edge: 16 mm

No. 14041-10



Straight  
Sharp/Sharp

12 cm  
Cutting edge: 20 mm

No. 14068-12



Curved  
Sharp/Sharp

12 cm  
Cutting edge: 20 mm

No. 14069-12



Straight  
Sharp/Sharp

12 cm  
Cutting edge: 20 mm

No. 14070-12



Curved  
Sharp/Sharp

12 cm  
Cutting edge: 20 mm

No. 14071-12

Iris ToughCut®



Straight  
Sharp/Sharp

9 cm  
Cutting edge: 16 mm

No. 14058-09



Curved  
Sharp/Sharp

9 cm  
Cutting edge: 16 mm

No. 14059-09

11.5 cm  
Cutting edge: 16 mm

No. 14058-11

11.5 cm  
Cutting edge: 16 mm

No. 14059-11

Iris Tungsten Carbide



Straight  
Sharp/Sharp

9 cm  
Cutting edge: 16 mm

No. 14568-09



Curved  
Sharp/Sharp

9 cm  
Cutting edge: 16 mm

No. 14569-09

11.5 cm  
Cutting edge: 16 mm

No. 14568-12

11.5 cm  
Cutting edge: 16 mm

No. 14569-12

Iris ToughCut® and Tungsten Carbide



Straight  
Sharp/Sharp

9 cm  
Cutting edge: 16 mm

No. 14558-09



Curved  
Sharp/Sharp

9 cm  
Cutting edge: 16 mm

No. 14559-09

11.5 cm  
Cutting edge: 16 mm

No. 14558-11

11.5 cm  
Cutting edge: 16 mm

No. 14559-11

Iris CeramaCut®



These ceramic-coated scissors are the cleanest cutting, longest lasting scissors ever produced. Utilizing the unique properties of a ceramic coating, they will last 6x longer than Tungsten Carbide instruments and cut even better than ToughCut® scissors. The black, corrosion-resistant coating has a non-glare finish.



Straight  
Sharp/Sharp

9 cm  
Cutting edge: 16 mm

No. 14958-09



Curved  
Sharp/Sharp

9 cm  
Cutting edge: 16 mm

No. 14959-09

11.5 cm  
Cutting edge: 16 mm

No. 14958-11

11.5 cm  
Cutting edge: 16 mm

No. 14959-11



Iris



**Straight  
Sharp/Blunt**

10 cm  
Cutting edge: 17 mm

No. 14028-10



**Curved  
Sharp/Blunt**

10 cm  
Cutting edge: 17 mm

No. 14029-10

Lexer-Baby



**Straight  
Blunt/Blunt**

10 cm  
Cutting edge: 16 mm

No. 14078-10



**Curved  
Blunt/Blunt**

10 cm  
Cutting edge: 16 mm

No. 14079-10

Metzenbaum Mini



14574-09  
14575-09



**Straight  
Blunt/Blunt**

9 cm  
Cutting edge: 12 mm

No. 14074-09



**Curved  
Blunt/Blunt**

9 cm  
Cutting edge: 12 mm

No. 14075-09

Metzenbaum Baby Tungsten Carbide



**Straight  
Blunt/Blunt**

11 cm  
Cutting edge: 20 mm

No. 14574-11



**Curved  
Blunt/Blunt**

11 cm  
Cutting edge: 20 mm

No. 14575-11

Strabismus

Walton

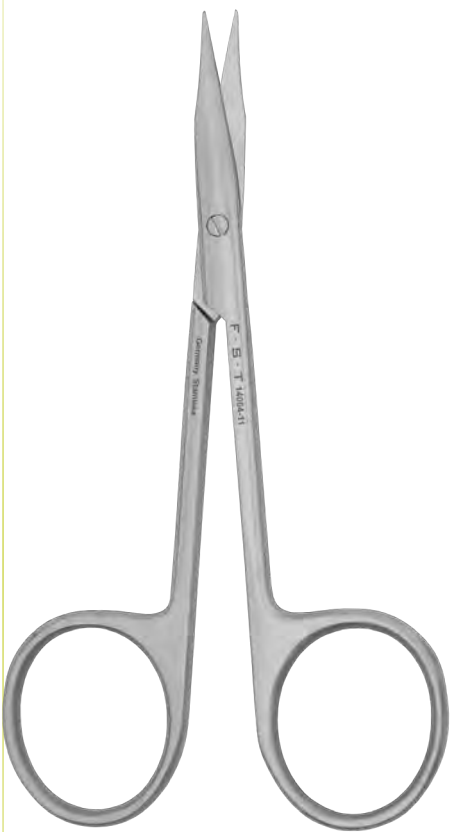
Stevens

LaGrange

Shea

One edge is serrated to minimize slippage of tissue during cutting.  
Curved handle helps when cutting from an awkward angle.

Transplant scissors with light and delicate pattern.



**Straight  
Blunt/Blunt**

11.5 cm  
Cutting edge: 20 mm

No. 14074-11



**Curved  
Blunt/Blunt**

11.5 cm  
Cutting edge: 20 mm

No. 14075-11



**Curved  
Sharp/Sharp**

10 cm  
Cutting edge: 10 mm

No. 14077-09



**Curved  
Sharp/Sharp**

10 cm  
Cutting edge: 10 mm

No. 14077-10



**Straight  
Sharp/Sharp**

11.5 cm  
Cutting edge: 13 mm

No. 14064-11



**Curved  
Sharp/Sharp**

11.5 cm  
Cutting edge: 13 mm

No. 14065-11



**Curved  
Sharp/Sharp**

11.5 cm  
Cutting edge: 12 mm

No. 14173-12



**Curved  
Blunt/Blunt**

12 cm  
Cutting edge: 16 mm

No. 14105-12

Dissecting

Slim blades for cutting tissue.



Angled to side  
Sharp/Sharp

10 cm  
Cutting edge: 6 mm

No. 14081-09

Dissecting

Similar to 14081-09, but with stronger blades for cutting fine bone.



Angled to side  
Sharp/Sharp

10 cm  
Cutting edge: 8 mm

No. 14082-09

Spencer Ligature

Used for cutting stitches or suture.



Straight  
Blunt/Blunt

9 cm  
Cutting edge: 16 mm

No. 14076-09

Bonn Vascular

Iris scissors with one ball tip to prevent piercing of underlying tissue.



Straight  
Sharp/Ball tip

9 cm  
Cutting edge: 10 mm  
1.5 mm Ball Diameter

No. 14086-09



Straight  
Sharp/Ball tip

11.5 cm  
Cutting edge: 16 mm  
1.5 mm Ball Diameter

No. 14080-11

Tissue Separating

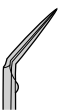


Straight  
Blunt/Blunt

11.5 cm  
Cutting edge: 16 mm

No. 14072-10

Wilmer



Angled up  
Sharp/Sharp

10 cm  
Cutting edge: 12 mm

No. 14037-10



Stevens with Adjustable Loops

Iris with Adjustable Loops

The finger loops can be enlarged to fit almost any size.

Kaye with Adjustable Loops

These scissors have semi-sharp outer edges to better facilitate dissection.

Standard Surgical

Our standard surgical scissors are recognized for these important features:

- Excellent feel and handling capability.
- Overall execution that marks them as fine examples of German craftsmanship.



 LARGE LOOP

 LARGE LOOP




 SERRATED

 LARGE LOOP




 MOST POPULAR

 LEFT-HANDED


14008-14


Length (cm)	Cutting edge (mm)						
		Straight Sharp / Sharp		Straight Sharp / Blunt		Straight Blunt / Blunt	
12	26	No. 14002-12		No. 14001-12		No. 14000-12	
13	28	No. 14002-13		No. 14001-13		No. 14000-13	
14.5	30	No. 14002-14		No. 14001-14		No. 14000-14	
16.5	36	No. 14002-16		No. 14001-16		No. 14000-16	
18.5	40			No. 14001-18		No. 14000-18	
20	44					No. 14000-20	

Length (cm)	Cutting edge (mm)	Straight Sharp / Blunt
14.5	30	No. 14008-14

Length (cm)	Cutting edge (mm)						
		Curved Sharp / Sharp		Curved Sharp / Blunt		Curved Blunt / Blunt	
12	26	No. 14005-12		No. 14004-12		No. 14003-12	
13	28	No. 14005-13		No. 14004-13		No. 14003-13	
14.5	30	No. 14005-14		No. 14004-14		No. 14003-14	
16.5	36	No. 14005-16		No. 14004-16		No. 14003-16	
18.5	40			No. 14004-18		No. 14003-18	
20	44					No. 14003-20	

  
**Straight Blunt/Blunt**  
10 cm  
Cutting edge: 8 mm  
No. 14108-09

  
**Straight Sharp/Sharp**  
9.5 cm  
Cutting edge: 8 mm  
No. 14106-09

  
**Curved Blunt/Blunt**  
10.5 cm  
Cutting edge: 14 mm  
No. 14171-10

Standard Surgical ToughCut®

Standard Surgical Tungsten Carbide

Standard Surgcial  
with Serrations

Standard Surgical with Large Finger Loops

Lister

These finger loops are approximately 1.5 x larger than our standard surgical scissors.

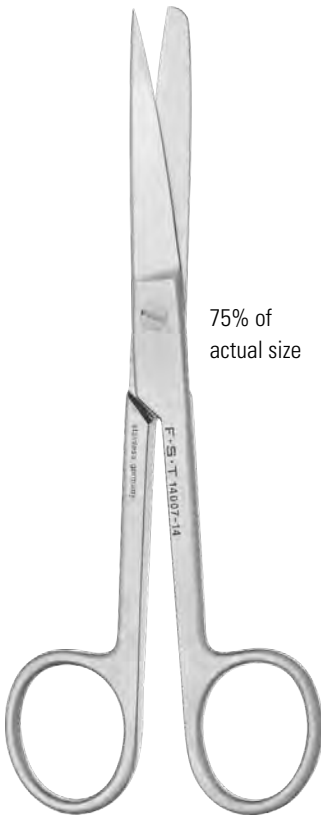
Excellent skin cutting scissors. Longer, blunt blade prevents damaging tissue underneath skin without losing the cutting line.



75% of actual size



75% of actual size



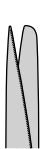
75% of actual size



80% of actual size



80% of actual size



**Straight  
Sharp/Blunt**

13 cm  
Cutting edge: 28 mm

No. 14054-13



**Straight  
Sharp/Blunt**

17.5 cm  
Cutting edge: 42 mm

No. 14130-17



**Straight  
Sharp/Sharp**

14.5 cm  
Cutting edge: 34 mm

No. 14502-14



**Straight  
Sharp/Blunt**

14.5 cm  
Cutting edge: 34 mm

No. 14501-14



**Curved  
Sharp/Sharp**

14.5 cm  
Cutting edge: 34 mm

No. 14505-14



**Curved  
Sharp/Blunt**

14.5 cm  
Cutting edge: 34 mm

No. 14504-14



**Straight  
Sharp/Blunt**

14 cm  
Cutting edge: 30 mm

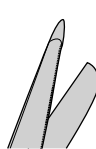
No. 14007-14



**Straight  
Sharp/Blunt**

14.5 cm  
Cutting edge: 30 mm

No. 14101-14



**Angled to side  
Blunt/Blunt**

14 cm  
Cutting edge: 26 mm

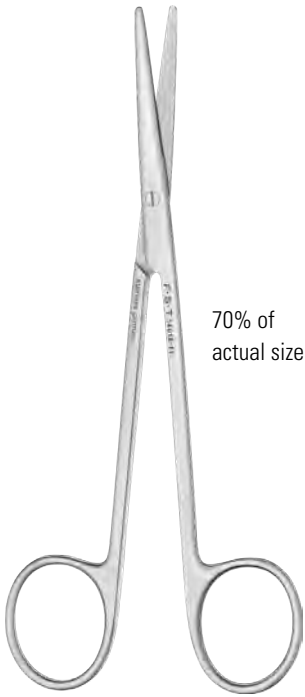
No. 14131-14

Metzenbaum Fino

Metzenbaum Fino Tungsten Carbide

Metzenbaum

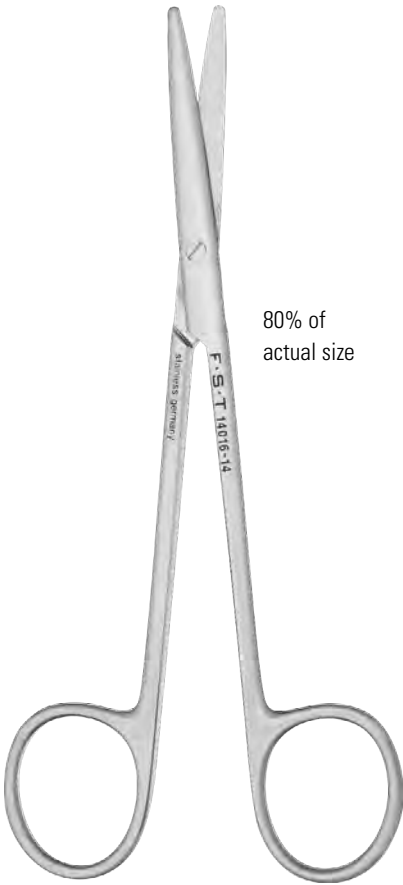
Metzenbaum ToughCut®



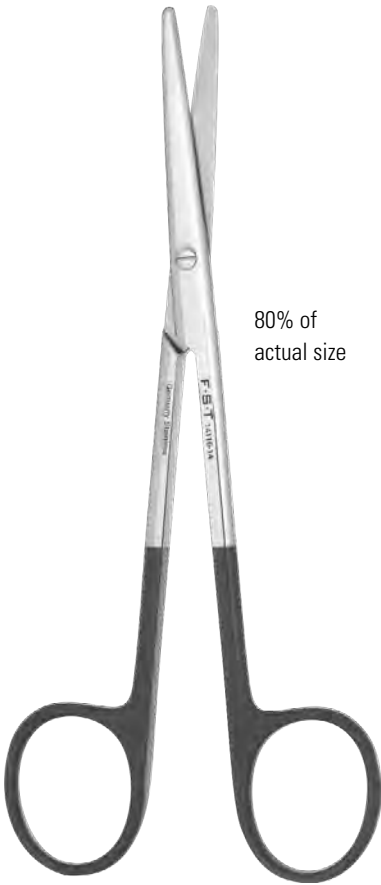
70% of actual size



80% of actual size



80% of actual size



80% of actual size



**Straight  
Blunt/Blunt**

13 cm  
Cutting edge: 20 mm

No. 14018-13



**Curved  
Blunt/Blunt**

13 cm  
Cutting edge: 20 mm

No. 14019-13



**Straight  
Ultra fine Blunt/  
Blunt**

14.5 cm  
Cutting edge: 22 mm

No. 14508-15



**Straight  
Blunt/Blunt**

14.5 cm  
Cutting edge: 22 mm

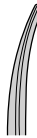
No. 14518-14



**Curved  
Ultra fine Blunt/  
Blunt**

14.5 cm  
Cutting edge: 22 mm

No. 14509-15



**Curved  
Blunt/Blunt**

14.5 cm  
Cutting edge: 22 mm

No. 14519-14



**Straight  
Sharp/Blunt**

14.5 cm  
Cutting edge: 22 mm

No. 14024-14



**Straight  
Blunt/Blunt**

14.5 cm  
Cutting edge: 22 mm

No. 14016-14



**Curved  
Blunt/Blunt**

14.5 cm  
Cutting edge: 22 mm

No. 14017-14



**Straight  
Blunt/Blunt**

14.5 cm  
Cutting edge: 22 mm

No. 14116-14



**Curved  
Blunt/Blunt**

14.5 cm  
Cutting edge: 22 mm

No. 14117-14

18 cm

Cutting edge: 24 mm

No. 14018-18

18 cm

Cutting edge: 24 mm

No. 14019-18

18 cm

Cutting edge: 24 mm

No. 14518-18

18 cm

Cutting edge: 24 mm

No. 14519-18

18 cm

Cutting edge: 24 mm

No. 14016-18

18 cm

Cutting edge: 24 mm

No. 14017-18

18 cm

Cutting edge: 24 mm

No. 14116-18

18 cm

Cutting edge: 24 mm

No. 14117-18



Mayo

Mayo ToughCut®

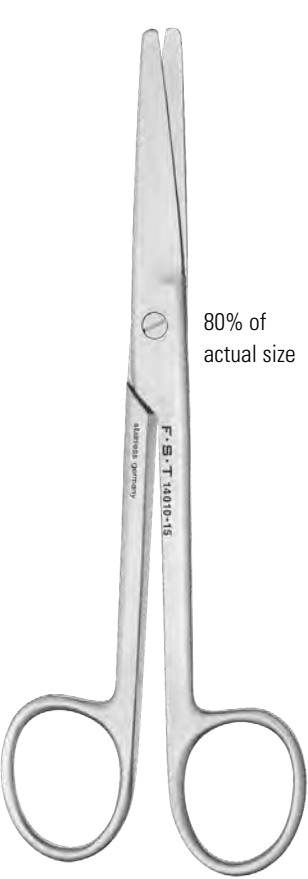
Mayo Tungsten Carbide

Mayo-Stille

Mayo-Noble

Standard Surgical with Stop

Stop guard at tips to prevent slippage.



80% of actual size



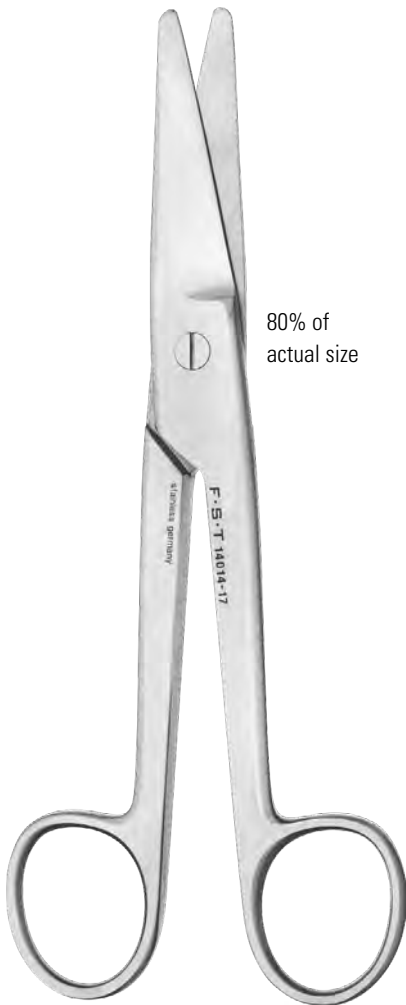
80% of actual size



80% of actual size



80% of actual size



80% of actual size



65% of actual size

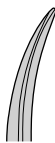


**Straight  
Blunt/Blunt**

15 cm

Cutting edge: 28 mm

**No. 14010-15**

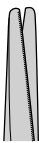


**Curved  
Blunt/Blunt**

15 cm

Cutting edge: 28 mm

**No. 14011-15**



**Straight  
Blunt/Blunt**

14.5 cm

Cutting edge: 28 mm

**No. 14110-15**

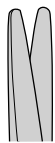


**Curved  
Blunt/Blunt**

14.5 cm

Cutting edge: 28 mm

**No. 14111-15**

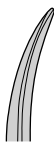


**Straight  
Blunt/Blunt**

15 cm

Cutting edge: 28 mm

**No. 14510-15**



**Curved  
Blunt/Blunt**

15 cm

Cutting edge: 28 mm

**No. 14511-15**



**Straight  
Blunt/Blunt**

15 cm

Cutting edge: 28 mm

**No. 14512-15**

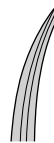


**Straight  
Blunt/Blunt**

15 cm

Cutting edge: 28 mm

**No. 14012-15**

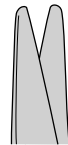


**Curved  
Blunt/Blunt**

15 cm

Cutting edge: 28 mm

**No. 14013-15**

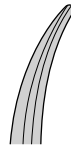


**Straight  
Blunt/Blunt**

17 cm

Cutting edge: 30 mm

**No. 14014-17**



**Curved  
Blunt/Blunt**

17 cm

Cutting edge: 30 mm

**No. 14015-17**



**Straight  
Blunt/Blunt**

21 cm

Cutting edge: 50 mm

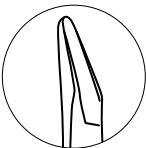
**No. 14200-21**

Friedmann-Pearson

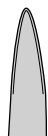
Experience the unparalleled precision of our flagship rongeur which features a specialized 0.5 mm cup diameter, tailored for the finest research techniques. These rongeurs guarantee effortless cutting while ensuring captured tissue remains secure and intact.



The fine rongeur tips shown on this page are extremely fragile. Removal of material with a twisting motion can damage the tips.



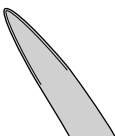
Magnified View



Straight

14 cm  
Cup size: 0.5 mm

No. 16220-14



Curved

14 cm  
Cup size: 0.5 mm

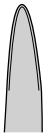
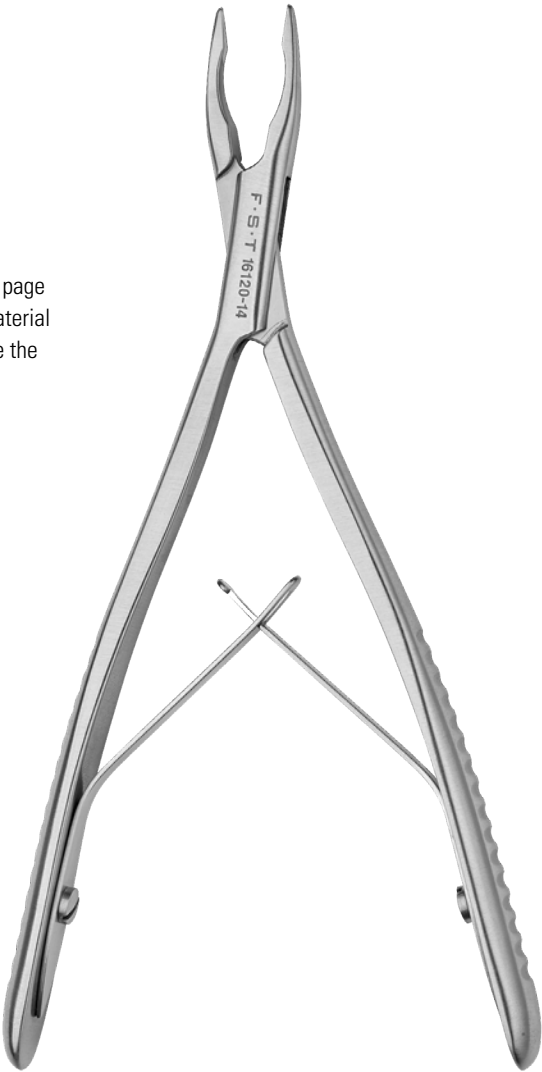
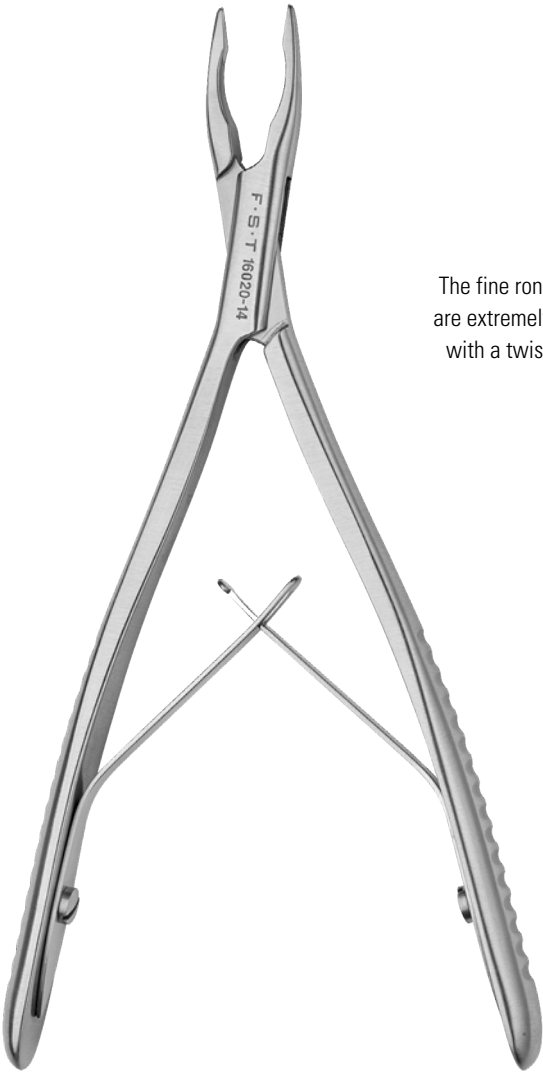
No. 16221-14

Friedmann-Pearson

Best suited for delicate work, this is one of our finest tip rongeurs in our product line. The fine-cupped jaws have been designed with a longer and slimmer approach for better visibility.



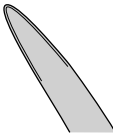
The fine rongeur tips shown on this page are extremely fragile. Removal of material with a twisting motion can damage the tips.



Straight

14 cm  
Cup size: 0.7 mm

No. 16120-14



Curved

14 cm  
Cup size: 0.7 mm

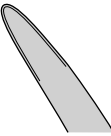
No. 16121-14



Straight

14 cm  
Cup size: 1 mm

No. 16020-14



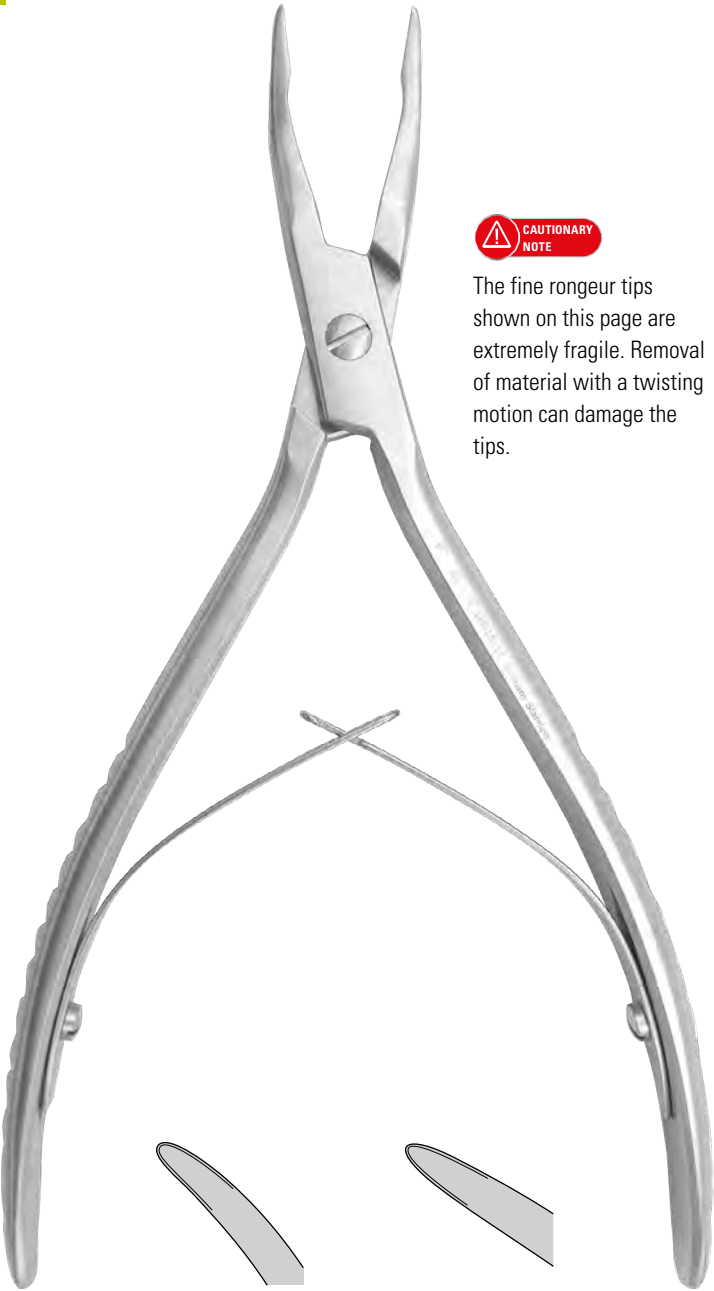
Curved

14 cm  
Cup size: 1 mm

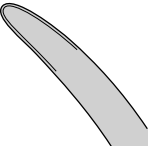
No. 16021-14

Pearson

Provides excellent visibility at dissection site due to its extra long and narrow approach to the fine cutting jaws. Especially suitable for larger hands.



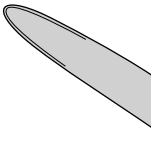
The fine rongeur tips shown on this page are extremely fragile. Removal of material with a twisting motion can damage the tips.



Shallow bend

17 cm  
Cup size: 1 mm

No. 16015-17

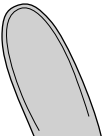


Sharp bend

17 cm  
Cup size: 1.2 mm

No. 16016-17

Luer



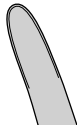
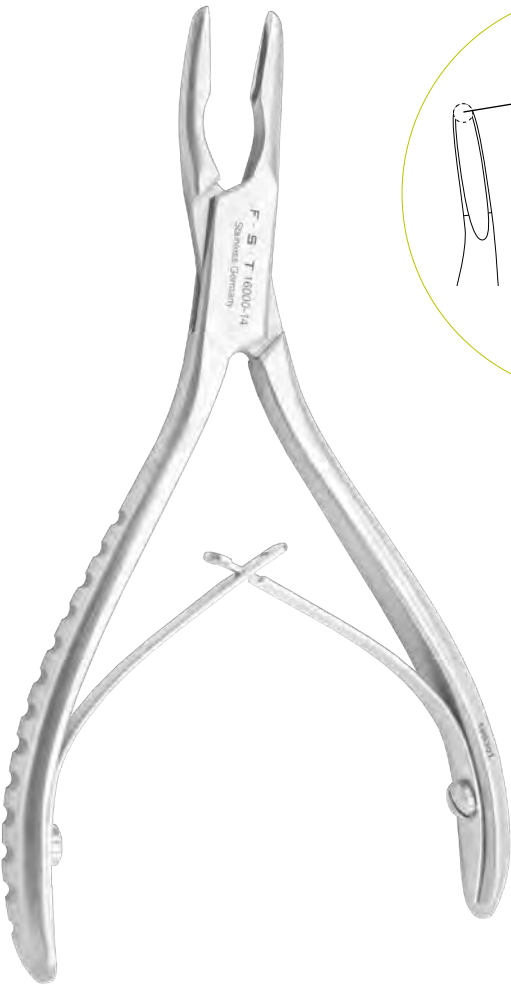
Curved

15 cm  
Cup size: 4 mm

No. 16001-15

Mini-Friedmann

Strong and large jaws are ideal for use on the harder, outer regions of the spinal cord. Also can be used to gain access to delicate structures encased in bone.



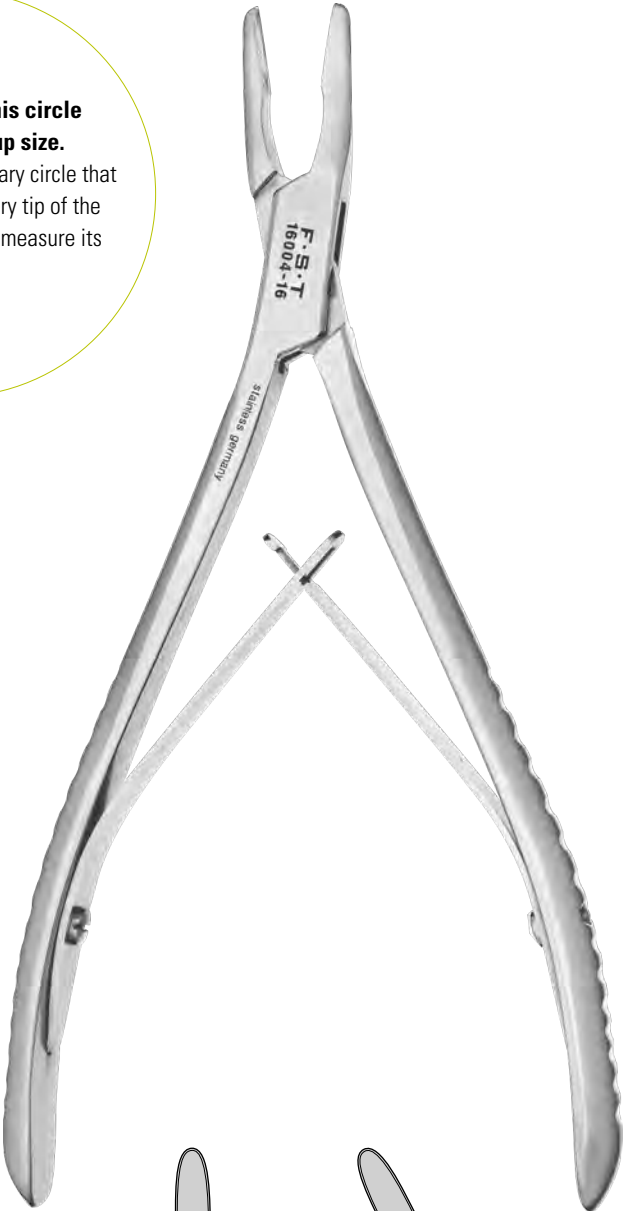
Curved

12.5 cm  
Cup size: 2.5 mm

No. 16000-14

Lempert

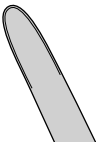
Extra fine jaws.



Straight

16 cm  
Cup size: 2.5 mm

No. 16004-16



Curved

16 cm  
Cup size: 2.5 mm

No. 16005-16



Diameter of this circle determines cup size. Form an imaginary circle that will fit in the very tip of the instrument and measure its diameter.



Fine

Ilic

Dumont #15A Cutter

Dumont #15ARW Cutter

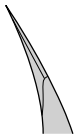
Tungsten Carbide #15AGHM Cutter

Round cutting blades for tissue, cartilage and soft bone.

Cutting edge on both outside and inside bevel. Cuts suture, cartilage, bone and steel wire to 0.06 mm, and copper wire to 0.15 mm.

Same structure and functionality as Item No. 11215-01 (left), but with an epoxy coating up to the cutting edge for easier care and maintenance.

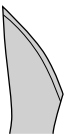
High precision cutting tweezers are suitable for applications which require cutting small material or performing small cuts. The extreme hard Tungsten Carbide blade insert is designed to cut the hardest metals.



Curved

14 cm  
Cutting edge: 8 mm

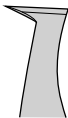
No. 16109-14



Curved

14 cm  
Cutting edge: 9 mm

No. 16107-14

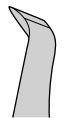


Angled Cutting

11.5 cm  
Cutting edge: 10 mm  
Jaw Opening: 2.5 mm

Carbon steel

No. 11215-01

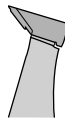


Angled Cutting

11.5 cm  
Cutting edge: 7 mm  
Jaw Opening: 2.5 mm

Epoxy coated carbon steel

No. 11215-02



Angled Cutting

11.5 cm  
Cutting edge: 10 mm  
Jaw Opening: 4 mm  
Anti-magnetic anti-acid Surgical  
Stainless Steel (Inox) (sa), Tungsten  
Carbide, sandblasted

No. 11515-02

Bone Nipper

Cohen

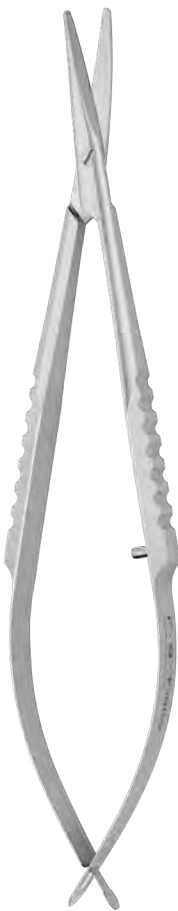
Lempert

Spring Scissors Style

Spring Scissors Style with Strong Handle

Strong jaws for cutting tough cartilage.

Slim, strong blades for cutting fine bones and tissues.



Angled up

11 cm  
Cutting edge: 5 mm

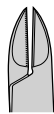
No. 16102-11



Angled up

10 cm  
Cutting edge: 7 mm

No. 16101-10



Straight

11 cm  
Cutting edge: 9 mm

No. 16140-11



Straight  
Blunt/Blunt

13 cm  
Cutting edge: 12 mm

No. 16144-13



Curved  
Blunt/Blunt

12 cm  
Cutting edge: 12 mm

No. 16143-12



Littauer

Beebee

Scissors Tungsten Carbide

Boehler

Skull Flap Cutter

Very strong jaws with sharp points.

Strong heavy blades for cutting bone.

Bone splitting cutter with very fine tips and double action joint to relieve strain on your hand.

One tip has a flat and narrow platform which fits between dura and skull. Other tip has sharp cutting edge. The double action joint relieves strain on your hand.



Straight

11 cm  
Cutting edge: 15 mm

No. 16152-11



Straight

12.5 cm  
Cutting edge: 17 mm

No. 16152-12



Straight

15 cm  
Cutting edge: 19 mm

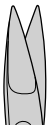
No. 16152-15



Straight

10 cm  
Cutting edge: 15 mm

No. 16044-10



Straight

12.5 cm  
Cutting edge: 15 mm

No. 16030-12



Straight

16 cm  
Cutting edge: 15 mm

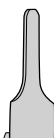
No. 16030-16



Angled up

15 cm  
Cutting edge: 18 mm

No. 16130-15



Angled up

14 cm  
Cutting edge: 10 mm

No. 16050-15



Cleveland

Liston

Bone Pliers

Bone Shears

Gross anatomy bone cutter.

To peel back skull flaps.



Angled up

15 cm

Cutting edge: 15 mm

No. 16106-14

17 cm

Cutting edge: 15 mm

No. 16105-16



Straight

14 cm

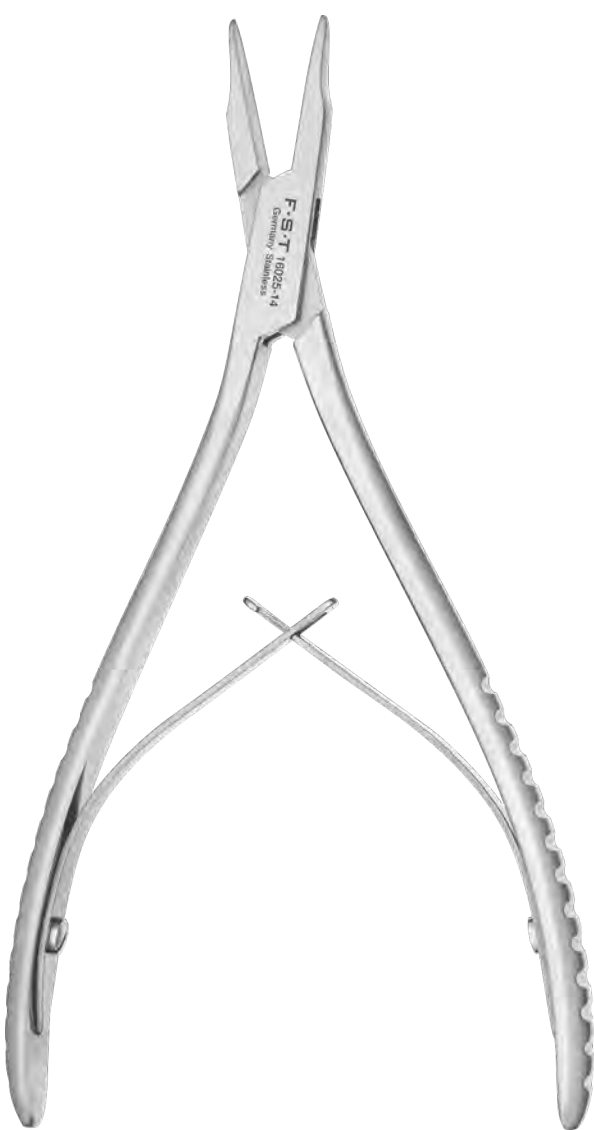
Cutting edge: 20 mm

No. 16104-14

20 cm

Cutting edge: 30 mm

No. 16104-19



Straight

15.5 cm

No. 16025-14



Curved

24 cm

Cutting edge: 65 mm

No. 16150-24

60% of actual size

Bone Forceps

Strong cross-serrated tips for bone crushing and removal.



Angled

11.5 cm  
Tip Ø: 1 mm

No. 16060-11

Mini Self-Tapping Bone Screws

Used extensively to anchor dental cement to bone, these self-tapping screws have superior holding strength over ordinary machine screws. Surgical Stainless Steel with fillister flat head.



4 mm  
Shaft diameter: 0.86 mm  
Pkg. of 100 screws

No. 19010-10

4.8 mm  
Shaft diameter: 1.19 mm  
Pkg. of 100 screws

No. 19010-00

Pkg. of 10 screws

No. 19010-11

Pkg. of 10 screws

No. 19010-01

For pre-drilling use our 0.7 mm burrs, see page 183.

For pre-drilling use our 0.9 mm burrs, see page 183.

Bone Wax

A beeswax-based compound for bone hemostasis.  
Soft, kneadable and ready to use. **Sterile.**



Pkg. of 12 foil packs (2.5 g each)

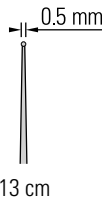
No. 19009-00

Micro Curette

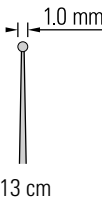
Curette tips consist of a scoop with sharp edges and are used for scraping or cleaning. They can also be used for separating and transporting, inoculating plates or transferring small amounts of chemicals.



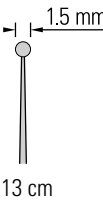
Serrations on cutting edge



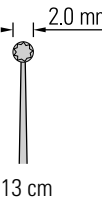
No. 10080-05



No. 10081-10



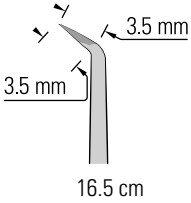
No. 10082-15



No. 10083-20

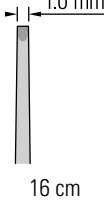
Delicate Bone Scraper

For scraping tissue without cutting into bone.



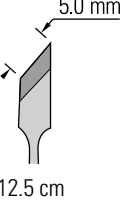
No. 10075-16

Austin Chisel



No. 10096-16

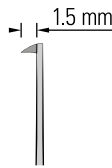
Dissecting Chisel



No. 10095-12

Graefe Knife

Used for cutting dura.



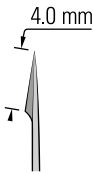
Angled 90°

13 cm  
Cutting edge: 1.5 mm

No. 10059-13

Cataract Knife

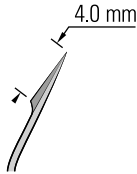
One of the most popular dissecting knives with a microfine point. The cutting edge is lance shaped to provide the ideal cutting angle.



Straight

12.5 cm  
Cutting edge: 4 mm

No. 10055-12

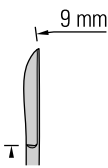


Angled 30°

12.5 cm  
Cutting edge: 4 mm

No. 10056-12

Sichel Knife

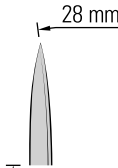


Curved

12 cm  
Cutting edge: 9 mm

No. 10073-14

Graefe Iris Knife

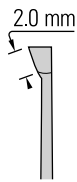


Straight

13 cm  
Cutting edge: 28 mm

No. 10370-13

Micro Knife Side Cut



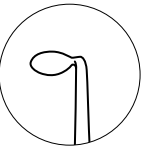
Side cut

15 cm  
Cutting edge: 3 mm

No. 10058-15

Circle Knife

Sharp cutting edge around tip.



Magnified View



Round

16 cm  
Cutting edge: 2 mm

No. 10059-15



Gross Anatomy Knives

Handles are made of fiberglass reinforced yellow nylon with a slip resistant surface that allows little chance of bacterial accumulation. The blades are made of German Molybdenum Stainless Steel.



40% of actual size



40% of actual size

Dissection knives

26 cm  
Cutting edge: 13 cm

No. 10157-13

28 cm  
Cutting edge: 15 cm

No. 10157-15

31 cm  
Cutting edge: 18 cm

No. 10157-18

Brain sectioning knife

44 cm  
Cutting edge: 30 cm

No. 10152-30

Obsidian Stone Age Scalpels

For applications where extremely fine cuts are required or for studies where trace metals from ordinary scalpel blades cannot be tolerated. These ultra fine cutting edges have been used in human surgical procedures where objectionable scar tissue results from the use of standard scalpels. The blade is made from obsidian — a type of volcanic glass — which allows a much finer blade than is possible with the conventional steel blade. In some cases this makes the relatively inexpensive obsidian scalpel a suitable substitute for an expensive diamond knife. Patterned after “stone age” knives which first made their appearance about 18,000 years ago, these modern versions utilize hard wood and plastic dowels for handles. Plastic dowels are made of polyoxymethylene.



Obsidian is a very fragile material. Great care should be taken to not exert any lateral pressure on the blade during cutting. Each blade is hand-fashioned, so sizes, shapes and points will vary. While all the blades will have at least one sharp edge, some will have two.



Magnified View

Wood Dowel  
Not autoclavable

Straight

13 cm  
Cutting edge: 6 mm

No. 10110-01

Straight

13.5 cm  
Cutting edge: 12 mm

No. 10110-03



Magnified View

Plastic Dowel  
Autoclavable

Straight

12.5 cm  
Cutting edge: 6 mm

No. 10110-05



Magnified View

Plastic Dowel  
Autoclavable

Angled

12.5 cm  
Cutting edge: 6 mm

No. 10110-07

CERAMIC & DIAMOND KNIVES

Ceramic Blades and Handle

- Advantages:
- Ceramic edge stays sharp 100 times longer than steel edge
  - Rust and corrosion free
  - Chemical and acid resistant
  - Withstands up to 2400 °C (4352 °F)
  - No electrostatic discharge concerns
  - No trace metal contamination
  - Fully nonmagnetic



Angled 45°

33 x 6 x 0.5 mm  
Cutting edge: 4.5 mm  
Pkg. of 5 blades

No. 10025-44

Angled 45°

33 x 6 x 0.5 mm  
Cutting edge: 2.5 mm  
Pkg. of 5 blades

No. 10025-43

Angled 23°

33 x 6 x 0.5 mm  
Cutting edge: 14 mm  
Pkg. of 5 blades

No. 10025-23

Angled 45°

33 x 6 x 0.5 mm  
Cutting edge: 8 mm  
Pkg. of 5 blades

No. 10025-45

Aluminum Alloyed  
Handle  
12.5 cm

No. 10025-50

Diamond Knives

This knife has a gem-quality, neutral diamond blade which is honed to the finest cutting edge possible. The blade is made to an ophthalmic surgical standard and is inspected under 400 x magnification. The retractable handle aids in care and storage.



This blade is extremely fragile and vulnerable to lateral pressure.



Lancet  
Cutting angle: 30°

12 cm  
Cutting edge: 1 mm  
Tip thickness: 0.15 mm

No. 10100-30



Angled  
Cutting angle: 45°

12 cm  
Cutting edge: 1 mm  
Tip thickness: 0.15 mm

No. 10100-45



Grip slides up the handle to protect the tip for safe storage and packing.

Blade Breakers and Holders



11 cm  
Jaw width: 4 mm  
Flat surface

No. 10052-11



9 cm  
Jaw width: 4 mm  
Concave / Convex surface  
Handle diameter: 5.5 mm

No. 10053-09



13 cm  
Jaw width: 4 mm  
Concave / Convex surface  
Handle diameter: 8 mm

No. 10053-13

Breakable Blades

These special, high carbon content blades are the only blades that will break cleanly.

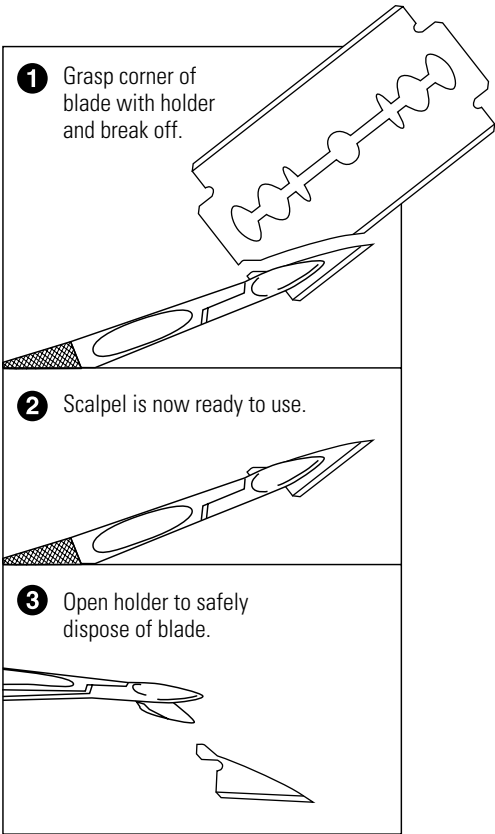


Blade thickness: 0.1 mm  
Pkg. of 10 blades

No. 10050-00

Create Your Own Blade

With these blade holders/breakers and our special carbon steel blades, No. 10050-00, you can produce microblades in sizes that meet your own individual needs.

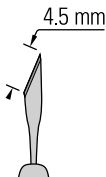


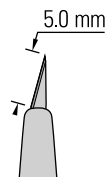
SCALPELS

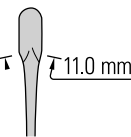
Sterile Scalpels

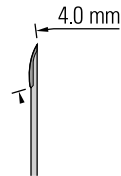
Cold forged from carbon steel and sharpened to eliminate tissue distortion and blade drag. 12.5 cm plastic handle with slip-proof grip. **Sterile.**



  
**22.5° Cutting angle**  
13.5 cm  
Cutting edge: 4.5 mm  
Tip thickness: 0.15 mm  
**No. 10316-14**

  
**15° Cutting Angle**  
13 cm  
Cutting edge: 5 mm  
Tip thickness: 0.15 mm  
**No. 10315-12**

  
**Crescent blade**  
14 cm  
Cutting edge: 11 mm  
Tip thickness: 0.2 mm  
**No. 10317-14**

  
**Needle blade**  
14.5 cm  
Cutting edge: 4 mm  
Tip thickness: 0.2 mm  
**No. 10318-14**

Interchangeable Blades and Handles



  
**Angled Carbon steel**  
Cutting edge: 10 mm  
Pkg. of 5 blades  
**No. 10035-15**

  
**Curved Carbon steel**  
Cutting edge: 10 mm  
Pkg. of 5 blades  
**No. 10035-20**

  
**Small / Flat Carbon steel**  
Cutting edge: 1.5 mm  
Pkg. of 5 blades  
**No. 10035-05**

  
**Large / flat Carbon steel**  
Cutting edge: 2.75 mm  
Pkg. of 5 blades  
**No. 10035-10**

Handle for Inter-changeable Blades  
9.5 cm  
**No. 10035-00**  
12.5 cm  
**No. 10035-12**

  
**Cane Carbon steel**  
Cutting edge: 12 mm  
Pkg. of 5 blades  
**No. 10035-25**

  
**Arc Carbon steel**  
Cutting edge: 12 mm  
Pkg. of 5 blades  
**No. 10035-30**

Standard Scalpel Handle #4 with Silicone

For heavy, gross anatomy work. Molded to fit hand.



16 cm  
**No. 10009-13**

Standard Scalpel Handle #4 Solid

Especially suitable for large dissections.



13 cm  
**No. 10004-13**

Blades for #4 Scalpel Handles

The alloy used has a high carbon content which provides a longer lasting edge. Blades come individually wrapped. **Non-sterile.**



**#20 blades**  
Box of 100 blades  
**No. 10020-00**



**#21 blades**  
Box of 100 blades  
**No. 10021-00**



**#22 blades**  
Box of 100 blades  
**No. 10022-00**



**#23 blades**  
Box of 100 blades  
**No. 10023-00**

Standard Scalpel Handle #3

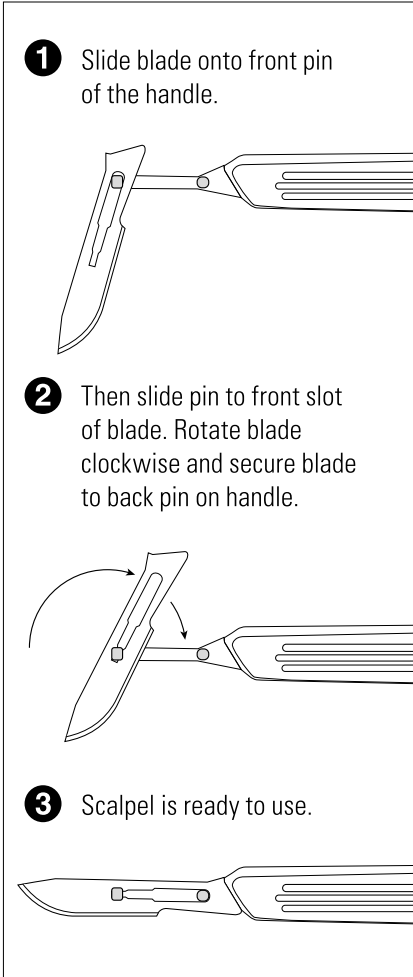


12 cm

No. 10003-12

Secure Scalpel Handle #3

A safety lock holds the blade securely, and allows simple and safe blade attachment and removal.



12 cm

No. 10003-13

Blades for #3 and #7 Scalpel Handles

The alloy used has a high carbon content which provides a longer lasting edge. Blades come individually wrapped. **Non-sterile.**



#10 blades  
Box of 100 blades

No. 10010-00



#11 blades  
Box of 100 blades

No. 10011-00



#12 blades  
Box of 100 blades

No. 10012-00



#15 blades  
Box of 100 blades

No. 10015-00

Short Scalpel Handle #7



12 cm

No. 10007-12

Standard Scalpel Handle #7



16.5 cm

No. 10007-16

Scalpel Blade Remover

For safe removal of scalpel blades, simply insert scalpel with blade into the Scalpel Blade Remover and press the sides together. This will dislodge the blade from handle and hold the blade securely for release.



6.5 cm

No. 10002-00

Scalpel Blade Remover and Disposal Box

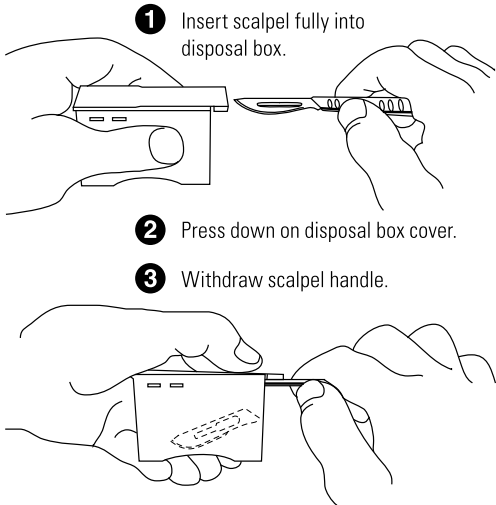
This plastic device will remove used scalpel blades safely and retain them for safe disposal. Can be used for blades that fit the #3, #4, #7 and Gross Anatomy handles.

7.5 x 5 x 2.5 cm  
Capacity approximately: 80 Blade  
Carton of 10 boxes

No. 10002-50



Your fingers will never come in contact with the blade.





Gross Anatomy Blade and Handle



13 cm

No. 10060-13

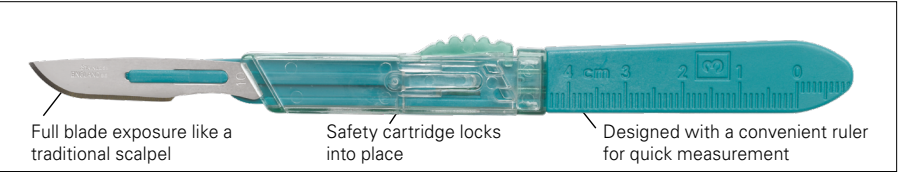
#60 blades

7.5 cm  
Box of 100 blades

No. 10060-00

Disposable Safety Scalpels

Plastic handle #3 with Surgical Stainless Steel blades. The protective cartridge completely covers the blade for safe, fast and easy disposal. **Single-use and non-sterile.**



Scalpel shown with safety cartridge closed and locked into place.

#10 scalpels

14 cm  
Pkg. of 10 blades

No. 10000-10

#11 scalpels

14 cm  
Pkg. of 10 blades

No. 10000-11

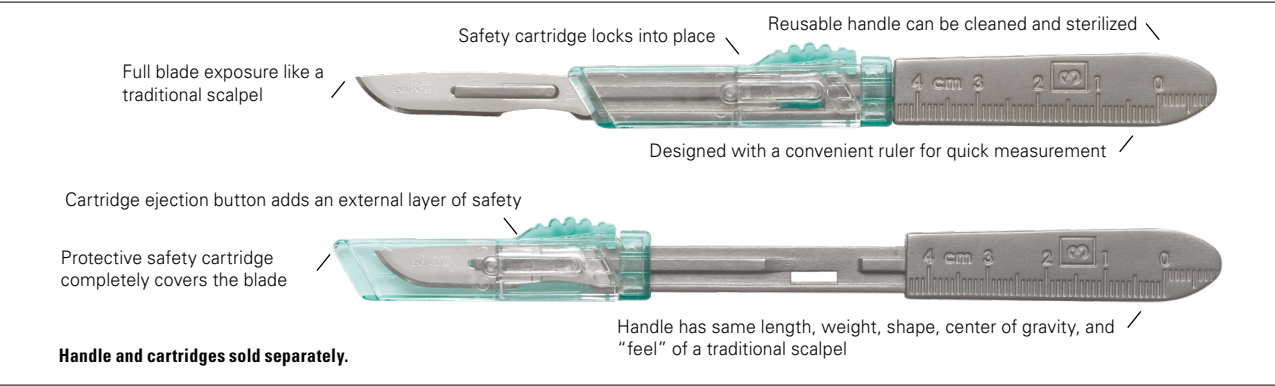
#15 scalpels

14 cm  
Pkg. of 10 blades

No. 10000-15

Safety Scalpel Blade Cartridges

The Safety Scalpel Handle #3 is compatible with all Safety Scalpel Blades. The handle is reusable and made of Teflon coated stainless steel which provides a non-stick surface. The Blade Cartridges are color-coded with clear windows for easy identification. The protective cartridge completely covers the blade for safe, fast, and easy disposal. **Handle is reusable and autoclavable. Blades are single-use and non-sterile.**



Handle and cartridges sold separately.

Safety Scalpel Handle #3



12.5 cm  
Teflon coated Surgical Stainless Steel (Inox)

No. 10006-12

Safety Scalpel Blade Cartridges

Safety Scalpel Blade Cartridges shown open and attached to handle. **Handle and cartridges sold separately.**



#10 blades

Pkg. of 10 blades

No. 10010-10

#11 blades

Pkg. of 10 blades

No. 10011-10

#15 blades

Pkg. of 10 blades

No. 10015-10

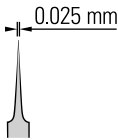
# FORCEPS, TWEEZERS, HEMOSTATS & VASCULAR INSTRUMENTS

FST® by Dumont	83 – 92
Fine	93 – 96, 99 – 103
Moria	97 – 98
S&T®	98, 100
Standard	104 – 115
Hemostats	116 – 121
Vascular Instruments	122 – 131



### Dumont #5SF

The finest tips ever produced by Dumont.



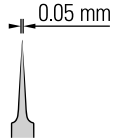
#### Super fine

11 cm  
0.025 x 0.005 mm  
Surgical Stainless  
Steel (Inox)

No. 11252-00

### Dumont #5 Medical Biology

Finished under magnification and polished on the inside, the tips close flat to 3 mm and are less likely to open under excess pressure.



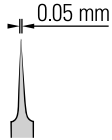
#### Biology

11 cm  
0.05 x 0.02 mm  
Surgical Stainless  
Steel (Inox)

No. 11254-20

### Dumont #5 Ceramic Coated

These forceps are non-reflective. The scratch and corrosion resistant coating guarantees durability.



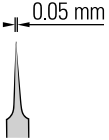
#### Biology

11 cm  
0.05 x 0.02 mm  
Ceramic coated  
Surgical Stainless  
Steel (Inox)

No. 11252-50

### Dumont #5CO

These forceps have been honed down to make this the lightest and most precise Dumont forceps available.



#### Biology

11 cm  
0.05 x 0.02 mm  
Dumostar

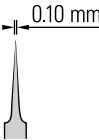
No. 11295-20

Dumont Medical Standard

The sides of these forceps are distinctively ribbed to provide a better holding surface for maximum control of the instrument. The shanks are arched toward each other to transmit more holding strength to the points. The smooth inside surfaces at the tips will close flat to 5 mm with gentle pressure, increasing the total holding area considerably. The microscopically matched tips are gently blunted to prevent tissue puncture and are recommended as micro needle holders.



Medical #5

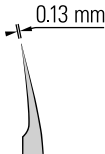


**Standard  
Straight**

11 cm  
0.1 x 0.06 mm  
Surgical Stainless  
Steel (Inox)

No. 11253-20

Medical #5A



**Standard  
Off-Center**

11.5 cm  
0.13 x 0.08 mm  
Surgical Stainless  
Steel (Inox)

No. 11253-21

Medical #7S

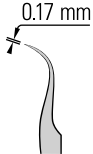


**Standard  
Curved**

11.5 cm  
0.17 x 0.1 mm  
Surgical Stainless  
Steel (Inox)

No. 11273-22

Medical #7

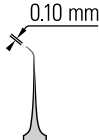


**Standard  
Curved**

11.5 cm  
0.17 x 0.1 mm  
Surgical Stainless  
Steel (Inox)

No. 11273-20

Medical #5/45



**Standard  
Angled 45°**

11 cm  
0.1 x 0.06 mm  
Surgical Stainless  
Steel (Inox)

No. 11253-25

Medical #5/90



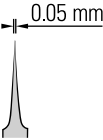
**Standard  
Angled 90°**

11 cm  
0.1 x 0.06 mm  
Surgical Stainless  
Steel (Inox)

No. 11253-29

Dumont #55

Bevelled, like #5 but with extra light and fine shanks.



**Biology**

11 cm  
0.05 x 0.02 mm  
Surgical Stainless  
Steel (Inox)

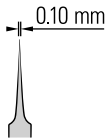
No. 11255-20

11 cm  
0.05 x 0.02 mm  
Dumostar

No. 11295-51

Dumont #5 Mirror Finish

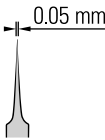
The last 5 mm on the inside of the tips are highly polished to help prevent tissue from sticking. Ideal for embryos, nerves or any other adhesive tissue.



**Standard**

11 cm  
0.1 x 0.06 mm  
Surgical Stainless  
Steel (Inox)

No. 11251-23



**Biology**

11 cm  
0.05 x 0.02 mm  
Surgical Stainless  
Steel (Inox)

No. 11252-23

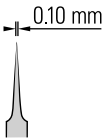
Dumont #5

These are the most widely used Dumont forceps.  
Bevelled, very fine shanks for best visibility.



11252-40

11251-10



**Standard**

11 cm  
0.1 x 0.06 mm  
Surgical Stainless  
Steel (Inox)

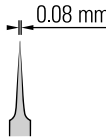
No. 11251-20

Dumoxel

No. 11251-30

Dumostar

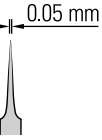
No. 11295-00



**Standard**

11 cm  
0.08 x 0.04 mm  
Carbon steel

No. 11251-10



**Biology**

11 cm  
0.05 x 0.02 mm  
Surgical Stainless  
Steel (Inox)

No. 11252-20

Dumoxel

No. 11252-30

Dumostar

No. 11295-10

Titanium

No. 11252-40



Dumont #5 WA

These specially designed forceps offer improved stability with an ergonomic body that allows the forceps to fit more comfortably in your hand. A domed end with no soldering grooves allows the forceps to be thoroughly and easily cleaned, preventing biofilm residues.



Side View

**Standard**

12 cm  
0.10 x 0.06 mm

Surgical Stainless Steel (Inox)

No. 11251-21

**Biology**

12 cm  
0.05 x 0.02 mm

Surgical Stainless Steel (Inox)

No. 11252-21

Dumont #5XL



**Standard**

15 cm  
0.1 x 0.06 mm

Surgical Stainless Steel (Inox)

No. 11253-10

Dumont #L5

Slide sleeve keeps tips together so specimens may be securely held and retained. Slide may be locked in place so that forceps can be used in regular fashion.



**Standard**

11 cm  
0.1 x 0.06 mm

Surgical Stainless Steel (Inox)

No. 11253-27

Dumont #5  
Teflon® Coated

These antimagnetic forceps are ideal for use in cryogenic environments and for EM samples. Teflon® coating provides a non-stick surface.



**Standard**

11 cm  
0.1 x 0.06 mm

Teflon coated Surgical Stainless Steel (Inox)

No. 11626-11

Dumont #5/45

45° tips for improved visibility and control.



**Standard**

11 cm  
0.1 x 0.06 mm

Dumoxel

No. 11251-35

Dumont #5/45  
Cover Slip

Designed to pick up cover slips out of multi-well plates. The tip width is squared for a better grip.



Magnified View

**1 mm from tip to bend**

11.5 cm  
Upper tip: 0.1 x 0.08 mm,  
Lower tip: 0.1 x 0.02 mm

Dumoxel

No. 11251-33

FORCEPS / TWEEZERS

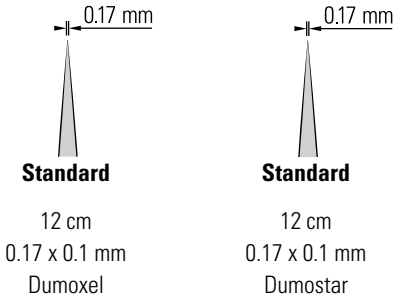
FORCEPS / TWEEZERS



FORCEPS / TWEEZERS

Dumont #3

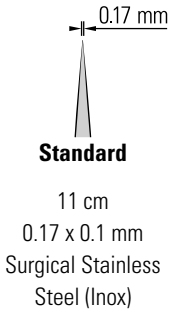
Tapered and sturdy shanks.



No. 11231-30

No. 11293-00

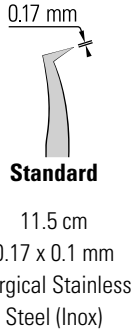
Dumont #3C



No. 11231-20

Dumont #6

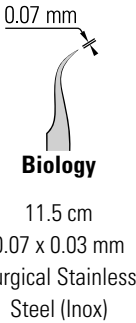
Sharply angled tips for access to difficult areas.



No. 11260-20

Dumont #7 Medical Biology

Finished under magnification, the tips close flat to 3 mm and therefore less likely to open under excess pressure.



No. 11274-20

Dumont #7



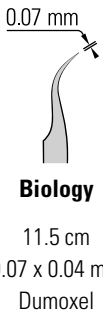
11272-40



**Standard**  
11.5 cm  
0.17 x 0.1 mm  
Dumoxel  
**No. 11271-30**

Dumostar

No. 11297-00



**Biology**  
11.5 cm  
0.07 x 0.04 mm  
Dumoxel  
**No. 11272-30**  
Dumostar  
**No. 11297-10**

Titanium

No. 11272-40

Dumont #7  
Ceramic Coated



No. 11272-50

Dumont #7B

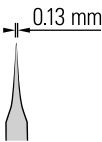


No. 11270-20

FORCEPS / TWEEZERS

Dumont #4

Similar to #5, but with broader shanks.



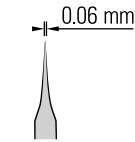
Standard

11 cm  
0.13 x 0.08 mm  
Dumoxel

No. 11241-30

Dumostar

No. 11294-00



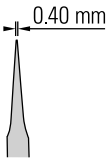
Biology

11 cm  
0.06 x 0.04 mm  
Dumoxel

No. 11242-40

Dumont #2

These forceps are ideal for breaking off delicate bones.



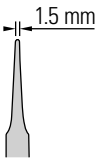
Standard

12 cm  
0.4 x 0.02 mm  
Surgical Stainless Steel (Inox)

No. 11223-20

Dumont #2AP Epoxy Coated

Provides good insulation for up to 220 AC voltage work and highly impervious to chemical solutions. Frozen or super cold sections will not adhere to the gripping surfaces.

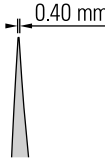


Standard

12 cm  
1.5 x 0.7 mm  
Epoxy coated Surgical Stainless Steel (Inox)

No. 11220-21

Dumont AA



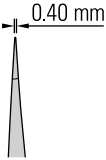
Standard

12.5 cm  
0.4 x 0.2 mm  
Surgical Stainless Steel (Inox)

No. 11210-20

Dumont AA Epoxy Coated

Slip-proof acid and electric shock resistant epoxy coating covers the forceps 17.5 mm from the tips.



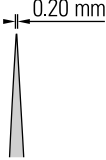
Standard

12.5 cm  
0.4 x 0.2 mm  
Epoxy coated Surgical Stainless Steel (Inox)

No. 11210-10

Dumont SS

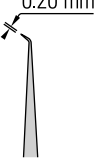
The tips are smooth on the inside for a gentle grip. Applying full strength will not separate tips and a strong hold on the smallest specimen is ensured.



Standard

Straight  
13.5 cm  
0.2 x 0.12 mm  
Surgical Stainless Steel (Inox)

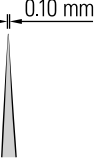
No. 11203-23



Standard

Angled 45°  
13.5 cm  
0.2 x 0.12 mm  
Surgical Stainless Steel (Inox)

No. 11203-25



Biology

Straight  
13.5 cm  
0.1 x 0.06 mm  
Dumoxel

No. 11200-33

FORCEPS/TWEEZERS

FORCEPS/TWEEZERS

Dumont Mini Forceps

Dumont #5AC

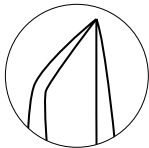
Balanced #5

Gold Plated

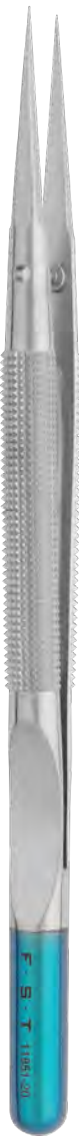
These forceps feature an ergonomic design and ultra fine tips for optimal comfort and accuracy. The balanced action of the forceps ensures seamless efficiency during prolonged tasks, providing ease in rotational pivoting with the rounded handle and a counterweight technology providing enhanced control and stability.



Gold-plating gives corrosion resistance to most chemicals, salts and acids. These forceps are perfect for any application where corrosion resistance and toughness are primary requirements.



Magnified View

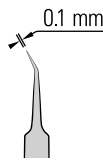
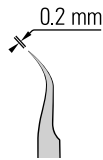
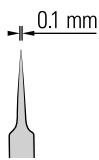
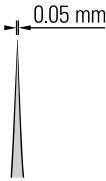
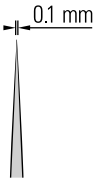
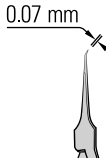
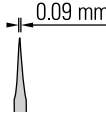
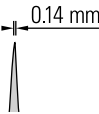
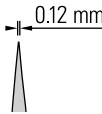


Mini #3

Mini #4

Mini #5

Type #5 Anti-Capillary



Standard

Standard

Standard

Biology

Standard

Biology

Straight

Curved

Angled 30°

7 cm  
0.12 x 0.07 mm

7 cm  
0.14 x 0.06 mm

8.2 cm  
0.1 x 0.05 mm

11.5 cm  
0.07 x 0.02 mm

15 cm  
0.1 x 0.06 mm

15 cm  
0.05 x 0.02 mm

11 cm  
0.1 x 0.06 mm  
Gold plated  
Surgical Stainless  
Steel (Inox)

12 cm  
0.2 x 0.1 mm  
Gold plated  
Surgical Stainless  
Steel (Inox)

11 cm  
0.1 x 0.06 mm  
Gold plated  
Surgical Stainless  
Steel (Inox)

No. 11200-10

No. 11200-12

No. 11200-14

No. 11258-20

No. 11851-20

No. 11852-20

No. 11915-11

No. 11917-12

No. 11911-11

Diamond Coated

Diamond coating provides increased corrosion resistance and greater protection from wear and tear, which extends the operational life of the forceps, as well as providing a stronger grip at the tips.

#27 Mirror Finish

These forceps have long and narrow shanks with thin, highly polished tips to prevent tissue from sticking. Ideal for embryos, nerves, or other adhesive tissues.

#259 Replaceable Tips

Surgical Stainless Steel body with replaceable plastic tips. Tips are made of polyvinylidene fluoride (PVDF) and are electrostatic discharge (ESD) safe. Body and plastic tips are corrosion and abrasion resistant.

#5 Mirror Finish

The last 5 mm on the inside of the tips are highly polished to help prevent tissue from sticking. Ideal for embryos, nerves or other adhesive tissue.

#3

Straight forceps with sturdy coarse tips.

FORCEPS / TWEEZERS

FORCEPS / TWEEZERS

**Straight**

14 cm  
0.15 x 0.1 mm  
Diamond coated  
Surgical Stainless  
Steel (Inox)

No. 11990-14

**Angled 30°**

14 cm  
0.15 x 0.1 mm  
Diamond coated  
Surgical Stainless  
Steel (Inox)

No. 11991-14

**Straight**

12 cm  
1.65 x 0.05 mm  
Diamond coated  
Surgical Stainless  
Steel (Inox)

No. 11992-12

**Straight**

13 cm  
0.3 x 0.15 mm  
Surgical Stainless  
Steel (Inox)

No. 11923-13

**Straight**

13 cm  
0.5 x 0.6 mm  
Surgical Stainless  
Steel (Inox) body  
with plastic tips

No. 11980-13

Pkg. of 2 tips and 3 screws  
Replacement plastic tips

**Straight / Fine**

4 cm  
0.6 x 0.6 mm

No. 11988-01

Pkg. of 2 tips and 3 screws  
Replacement plastic tips

**Straight / Very fine**

4 cm  
0.6 x 0.45 mm

No. 11988-02

Pkg. of 2 tips and 3 screws  
Replacement plastic tips

**Curved / Very fine**

4 cm  
0.5 x 0.5 mm

No. 11988-03

**Straight**

11 cm  
0.1 x 0.06 mm  
Surgical Stainless  
Steel (Inox)

No. 11412-11

**Straight**

11 cm  
0.05 x 0.02 mm  
Surgical Stainless  
Steel (Inox)

No. 11413-11

**Straight**

12 cm  
0.2 x 0.12 mm  
Surgical Stainless  
Steel (Inox)

No. 11445-12



#2A

Self-Closing

Moria #5

Moria Iris

Ideal for lifting and holding EM grids. Consistent pressure at tips. Correctly tensioned "cross-over" shanks come to a microscopically matched point.

These forceps have the most finely executed points available. They are extremely light, superbly balanced and have a gentle spring action. The shanks are specially designed with an arch which ensures maximum force to the tips. The tips close flat for 6 mm from the points to give a large holding area. The tips have been expertly finished under magnification.

Balanced with gentle spring action and tips that are perfectly matched.



Moria

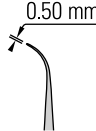
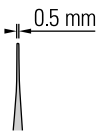
Moria

Moria



Moria MC32/B

Moria MC31/B



**Straight**  
Smooth

**Curved**  
Smooth

10 cm  
0.5 x 0.3 mm

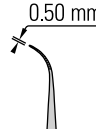
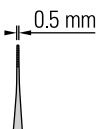
10 cm  
0.5 x 0.3 mm

No. 11373-22

No. 11373-12

Moria MC32

Moria MC31

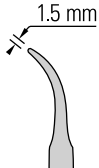
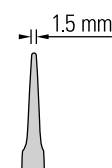


Serrated

Serrated

No. 11370-32

No. 11370-31



**Straight**

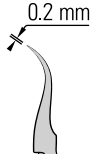
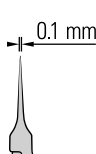
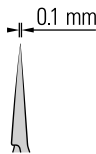
**Curved**

12 cm  
1.5 x 0.1 mm

12 cm  
1.5 x 0.1 mm

No. 11992-20

No. 11972-20



**Straight**

**Straight**

**Curved**

11.5 cm  
0.1 x 0.05 mm

11 cm  
0.1 x 0.06 mm

11.5 cm  
0.2 x 0.12 mm

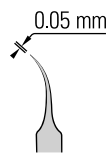
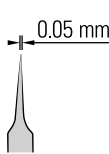
No. 11480-11

No. 11485-11

No. 11487-11

Moria MC40

Moria MC40/B



**Straight**

**Curved**

11 cm  
0.05 x 0.01 mm

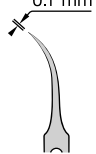
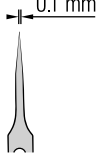
11 cm  
0.05 x 0.01 mm

No. 11370-40

No. 11370-42

Moria 9980

Moria 9987



**Straight**

**Curved**

13 cm  
0.1 x 0.06 mm

13 cm  
0.1 x 0.06 mm

No. 11399-80

No. 11399-87

Moria Paufigue

#5 Fine Forceps

#5 SuperGrip Forceps

Bonn

Castroviejo Suture Tying

Mirror Finish Suture Tying Forceps with Teeth

Moria

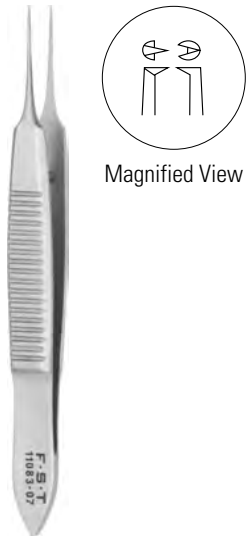
S&T®

The tips are processed with MicroCrystals®, a method developed by S&T® to infuse Tungsten Carbide on Surgical Stainless Steel. The formation of this ultra-fine coating guarantees atraumatic handling of tissue while improving the grip dramatically. The recommended use is where forceps are utilized as needle holders or when slippery tissues might be encountered.

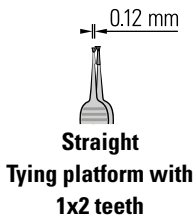
The 1x2 teeth forceps No. 11084-07 are the finest of their kind with 0.1 mm wide teeth. The smooth forceps No. 11083-07 have a narrow 5 mm long platform. Both forceps have a pin inside the shanks to limit the applied pressure.

The fine Bonn forceps features a tying platform and is also available with additional 1x2 teeth. It's designed for tissue manipulation and suturing. The wide handle ensures safe handling. The fine and precise tips make it suitable for work under a high magnification.

A unique tip style fusing a suture tying platform and a 1x2 teeth tip for tissue manipulation.



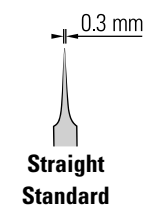
Moria 3225



Straight  
Tying platform with  
1x2 teeth

8.5 cm  
0.6 x 1 mm

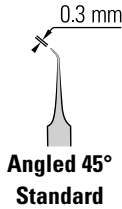
No. 11390-25



Straight  
Standard

11 cm  
0.3 x 0.25 mm

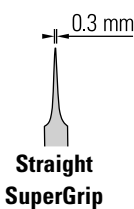
No. 00108-11



Angled 45°  
Standard

11 cm  
0.3 x 0.25 mm

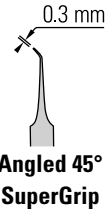
No. 00109-11



Straight  
SuperGrip

11 cm  
0.3 x 0.25 mm

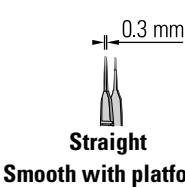
No. 00632-11



Angled 45°  
SuperGrip

11 cm  
0.3 x 0.25 mm

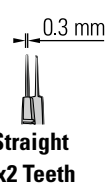
No. 00649-11



Straight  
Smooth with platform

7 cm  
Tip width: 0.3 mm  
Tying platform: 5 mm

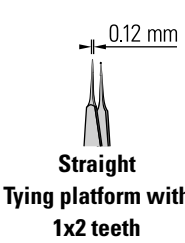
No. 11083-07



Straight  
1x2 Teeth

7 cm  
Tip width: 0.3 mm  
Teeth width: 0.1 mm

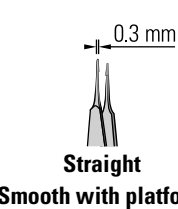
No. 11084-07



Straight  
Tying platform with  
1x2 teeth

10.5 cm  
Tip width: 0.12 mm  
Tying platform: 5 mm

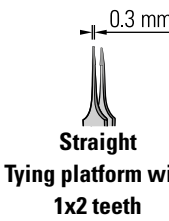
No. 11090-10



Straight  
Smooth with platform

10.5 cm  
Tip width: 0.3 mm  
Tying platform: 5 mm

No. 11093-10



Straight  
Tying platform with  
1x2 teeth

9 cm  
Tip width: 0.3 mm  
Tying platform: 6 mm

No. 11090-09

FORCEPS / TWEEZERS

FORCEPS / TWEEZERS

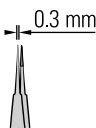
Moria Troutman Suture Tying

Used to suture after surgery is complete. This requires the manipulation of a calibrated nylon thread and the use of a specific instrument: a tying forceps, straight or curved, without teeth.

Moria



Moria 9604

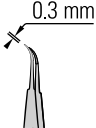


**Straight**  
Smooth with platform

9.5 cm  
Tip Ø: 0.3 mm  
Tying platform: 8 mm

No. 11393-04

Moria 9605

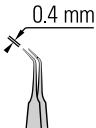


**Curved**  
Smooth with platform

8.5 cm  
Tip Ø: 0.3 mm  
Tying platform: 7.5 mm

No. 11393-05

McPherson



**Angled 45°**  
Smooth with platform

9 cm  
Tip Ø: 0.4 mm  
Tying platform: 6 mm

No. 11063-07

#3 Suture Tying Forceps

The platform tips close flat. This ensures a reliable grip on sutures.

S&T®



0.30 mm

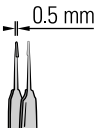
**Straight**  
Smooth with platform

13.5 cm  
Tip Ø: 0.3 mm  
Tying platform: 6 mm

No. 00272-13

Tuebingen Suture Tying

The platform tips close flat. This ensures a reliable grip on sutures.



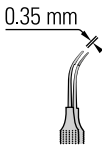
**Straight**  
Smooth with platform

10 cm  
Tying platform: 5 mm

No. 18025-10

Round Handled Suture Tying

Round handles allow easy fingertip adjustments.



**Curved**  
Smooth with platform

10.5 cm  
Tying platform: 5.5 mm

No. 18026-10

Vial Forceps

Tips taper for 6 cm allowing easy access to specimens in vials.



**Straight**

15 cm  
Tip Ø: 0.5 mm

No. 11006-15



Graefe Forceps

Bishop-Harman

Extra light, fenestrated handles ensure a good grip.

Foerster

The octagon shaped grip provides a particularly secure finger hold.

Fine Graefe

Graefe



MOST POPULAR



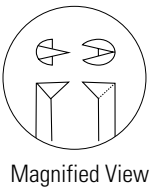
TITANIUM

11650-10 – 11652-10

The length of all forceps is 10 cm

FORCEPS / TWEEZERS

FORCEPS / TWEEZERS

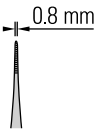


Magnified View





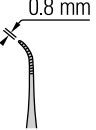
MOST POPULAR



**Straight Serrated**

0.8 x 0.7 mm

No. 11050-10



**Slightly curved Serrated**

0.8 x 0.7 mm

No. 11051-10



**Curved Serrated**

0.8 x 0.7 mm

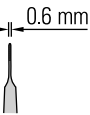
No. 11052-10



**Angled Serrated**

0.8 x 0.7 mm

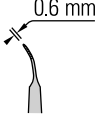
No. 11049-10



**Straight Serrated**

7 cm  
0.6 x 0.5 mm

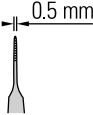
No. 11064-07



**Curved Serrated**

7 cm  
0.6 x 0.5 mm

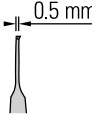
No. 11065-07



**Straight Serrated**

8.5 cm  
0.5 x 0.5 mm

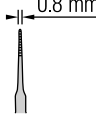
No. 11069-08



**Straight 1x2 Teeth**

8.5 cm  
0.5 x 0.5 mm

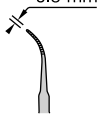
No. 11070-08



**Straight Serrated**

9.5 cm  
0.8 x 0.5 mm

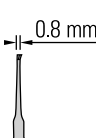
No. 11040-08



**Curved Serrated**

9.5 cm  
0.8 x 0.5 mm

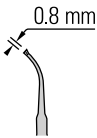
No. 11041-08



**1x2 Teeth**

9.5 cm  
0.8 x 0.5 mm

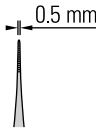
No. 11042-08



**1x2 Teeth**

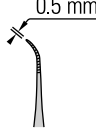
9.5 cm  
0.8 x 0.5 mm

No. 11043-08



**Straight Serrated**

No. 11150-10



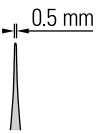
**Slightly curved Serrated**

No. 11151-10



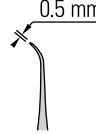
**Curved Serrated**

No. 11152-10



**Straight Smooth**

No. 11158-10



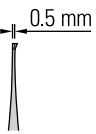
**Slightly curved Smooth**

No. 11159-10



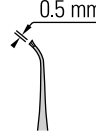
**Curved Smooth**

No. 11160-10



**Straight 1x2 Teeth**

No. 11153-10



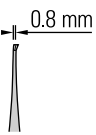
**Slightly curved 1x2 Teeth**

No. 11154-10



**Curved 1x2 Teeth**

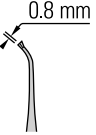
No. 11155-10



**Straight 1x2 Teeth**

0.8 x 0.7 mm

No. 11053-10



**Slightly curved 1x2 Teeth**

0.8 x 0.7 mm

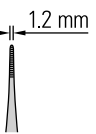
No. 11054-10



**Curved 1x2 Teeth**

0.8 x 0.7 mm

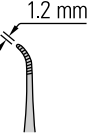
No. 11055-10



**Straight Serrated**

1.2 x 0.9 mm  
Titanium

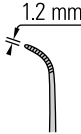
No. 11650-10



**Slightly curved Serrated**

1.2 x 0.9 mm  
Titanium

No. 11651-10



**Curved Serrated**

1.2 x 0.9 mm  
Titanium

No. 11652-10

The length of all forceps is 10 cm  
The dimensions of all tips are 0.5 x 0.5 mm



Sliding Lock Forceps

Episcleral Forceps

Pierse Fixation

Plastic

Self-Closing Forceps

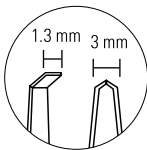
Kuehne

The tips of these forceps arch toward each other, closing flat. Exceptional gripping power is possible with minimal damage to tissue. A limit pin prevents excessive applied pressure.

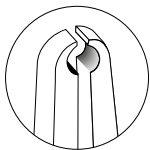
For exceptional gripping power with no damage to sclera, vascular sheath and epineurium.

These forceps are non-magnetic, acid resistant and able to withstand temperatures up to 240 °C (464 °F). Tips do not spread under pressure. Plastic forceps are made of Acetyl and will be sold in packages of 10 pieces.

These tissue transport forceps have a gentle action.



Magnified View



Magnified View

Tissue retention hole of 0.3 mm behind tips.



Straight Smooth

11 cm  
1 x 0.75 mm

No. 11062-10



Straight Arched

10 cm  
1.3 x 3 x 0.2 mm

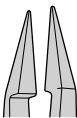
No. 11071-10



Straight 0.3 mm Hole

13 cm  
1 x 0.5 mm

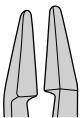
No. 18155-13



Straight Sharp

11.5 cm  
0.4 x 0.25 mm

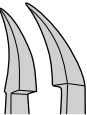
No. 11700-00



Straight Blunt

11.5 cm  
1.5 x 0.4 mm

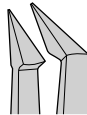
No. 11700-03



Curved Sharp

11.5 cm  
0.3 x 0.2 mm

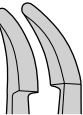
No. 11700-01



Angled 45° Sharp

11.5 cm  
0.3 x 0.2 mm

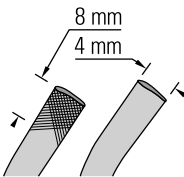
No. 11700-02



Curved Blunt

11.5 cm  
1.5 x 0.4 mm

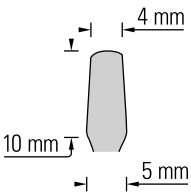
No. 11700-04



Angled Cross serrated

10 cm  
4 x 8 mm

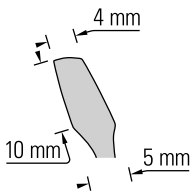
No. 11075-00



Straight Smooth

10.5 cm  
4 x 10 x 0.6 mm

No. 11074-02



Angled Smooth

10.5 cm  
4 x 10 x 0.6 mm

No. 11073-10

Ring Forceps

For transport of tissue and organs. With limit screw to prevent excessive applied pressure.

Circle Forceps

Cupped forceps for atraumatic gripping of organs and tissues.

Live Insect Handling

Very delicate.

Micro-Adson

Our most delicate version of the popular Adson forceps.

Micro-Adson with Fenestrated Handle

Our delicate Micro-Adson forceps, with five windows to aid in stability and easy finger adjustments.

Adson

Wide, strong grip with narrow tips.



11506-12



Straight Ring

8.5 cm  
ID: 1 mm OD: 1.5 mm x 0.5 mm

No. 11101-09



Straight Ring

9 cm  
ID: 2.2 mm OD: 3 mm x 1.3 mm

No. 11103-09



Straight Ring

9 cm  
ID: 4.8 mm OD: 6 mm x 1.5 mm

No. 11106-09



Straight Circle

11.5 cm  
7 x 0.5 mm

No. 11072-11



Straight Narrow

10 cm  
0.9 x 0.15 mm

No. 26029-10



Straight Wide

10 cm  
2.3 x 0.3 mm

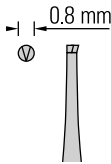
No. 26030-10



Straight Serrated

12 cm  
0.8 x 0.9 mm

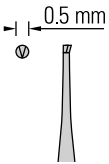
No. 11018-12



Straight 1x2 Teeth

12 cm  
0.8 x 1.3 mm

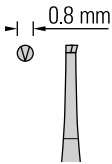
No. 11019-12



Straight 1x2 Teeth

12 cm  
0.5 x 0.6 mm

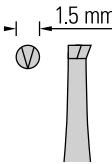
No. 11032-12



Straight Tying platform with 1x2 teeth

12 cm  
0.8 x 2 mm  
Tying platform: 6 mm

No. 11022-12



Straight 1x2 Teeth

12 cm  
1.5 x 2 mm

No. 11027-12



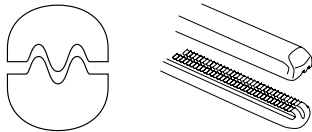
Straight Cross Serrated Tungsten Carbide

12 cm  
1.5 x 1.3 mm

No. 11506-12

Adson DeBakey

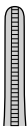
Ideal for gentle, atraumatic gripping of vessels, tissue and other delicate structures. Two rows of atraumatic teeth interfit with one opposite row of atraumatic teeth.



Atraumatic DeBakey Serrations

This tooth pattern, as shown, consists of one row of atraumatic teeth meshed with two opposite rows of atraumatic teeth.

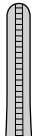
These two forceps are ideal for gentle, atraumatic gripping of vessels, tissue and other delicate structures.



Straight DeBakey serrations

12.5 cm  
1.75 x 1.5 mm

No. 11617-12

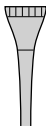


Straight DeBakey serrations

15 cm  
1.75 x 1.5 mm

No. 11616-15

Adson-Graefe

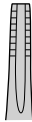


Straight Fine teeth

12.5 cm  
4.5 x 1.25 mm

No. 11030-12

Adson-Brown



Straight Shark teeth

12 cm  
2 x 1.4 mm

No. 11627-12

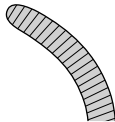
Anatomical Standard Models

Broad pattern with strong spring action.



Straight Serrated

Length (cm)	Tip width (mm)	Item
12	2.5	No. 11000-12
13	2.8	No. 11000-13
14.5	3.25	No. 11000-14
16	3.3	No. 11000-16
18	3.7	No. 11000-18
20	3.75	No. 11000-20
25	3.9	No. 11000-25
30	4	No. 11000-30



Curved Serrated

Length (cm)	Tip width (mm)	Item
12	2.5	No. 11001-12
13	2.8	No. 11001-13
14.5	3.25	No. 11001-14
16	3.3	No. 11001-16
18	3.7	No. 11001-18
20	3.75	No. 11001-20

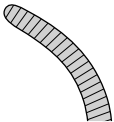
Anatomical Narrow Models

Lighter spring action than standard pattern for grasping more delicate tissue.



Straight Serrated

Length (cm)	Tip width (mm)	Item
12	2	No. 11002-12
13	2.15	No. 11002-13
14.5	2.25	No. 11002-14
14.5	2.25	No. 11602-14
16	2.35	No. 11002-16
18	2.4	No. 11002-18
20	2.75	No. 11002-20
25	3.2	No. 11002-25



Curved Serrated

Length (cm)	Tip width (mm)	Item
12	2	No. 11003-12
13	2.15	No. 11003-13
14.5	2.25	No. 11003-14
16	2.35	No. 11003-16
18	2.4	No. 11003-18
20	2.75	No. 11003-20



11602-14

TITANIUM

Semken

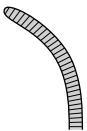
The Semken tweezers are characterized by their slim shape and fine tips. Their anatomical (toothing) or surgical (1x2 teeth) tips make them ideal for grasping tissue. The serrated grip surface ensures a secure hold during use.



Straight  
Serrated

13 cm  
Tip width: 1.3 mm

No. 11008-13



Curved  
Serrated

13 cm  
Tip width: 1.3 mm

No. 11009-13



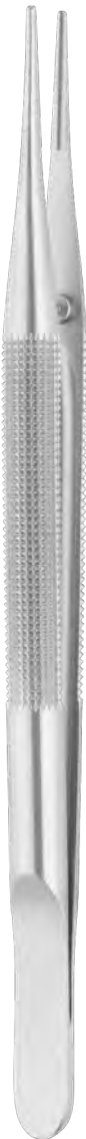
Straight  
1x2 Teeth

12.5 cm  
Tip width: 1.3 mm

No. 11024-12

DeBakey Round Handled

Ideal for gentle, atraumatic gripping of vessels, tissue and other delicate structures. Two rows of atraumatic teeth interfit with one opposite row of atraumatic teeth. The round handles allow easy fingertip adjustments.



Straight  
DeBakey serrations

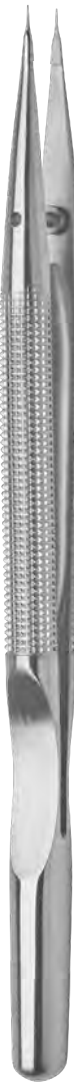
15 cm  
Tip width: 1.2 mm

No. 11076-15

Multipurpose Forceps

Balanced instruments are designed to put the center of gravity between the thumb and index finger. This is accomplished by adding a slight counter weight to the proximal end of the instruments. The design enhances tactile feel, aiding in better control and precision.

The tips of these multipurpose forceps are configured to enable their use as dilators at the front, as well as needle holders and tying forceps further in the back. The platform at the tips close parallel ensuring a reliable grip.



Straight  
For Dilating and Suture tying

14.5 cm  
Tip Ø: 0.1 mm

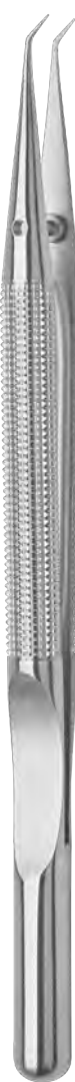
No. 18601-15



Straight  
For Dilating and Suture tying

15 cm  
Tip Ø: 0.3 mm

No. 18602-15



Angled  
For Dilating

14.5 cm  
Tip Ø: 0.2 mm

No. 18603-14



Surgical Models Straight



**Straight**  
**1x2 Teeth / Narrow**

10 cm

No. 11023-10

12 cm

No. 11023-12

14.5 cm

No. 11023-14

15.5 cm

No. 11023-15

**Straight**  
**1x2 Teeth / Standard**

12 cm

No. 11021-12

14.5 cm

No. 11021-14

15.5 cm

No. 11021-15

**Straight**  
**2x3 Teeth / Standard**

14.5 cm

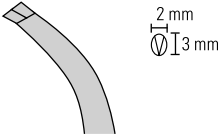
No. 11022-14

15.5 cm

No. 11022-15

Surgical Models Curved

Used with rongeur No. 16021-14 in laminectomy to securely hold spinal column.

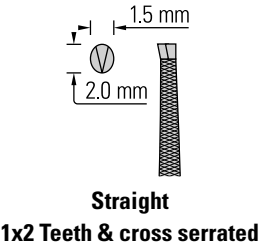


**Curved**  
**1x2 Teeth / Narrow**

14 cm

No. 11029-14

Gillies



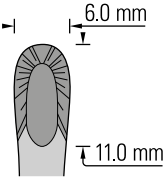
**Straight**  
**1x2 Teeth & cross serrated**

15 cm  
1.5 x 2 mm

No. 11028-15

Russian

Special cupped pattern for superior grip.



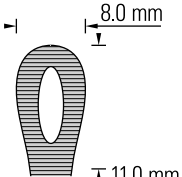
**Straight**  
**Cupped teeth**

15 cm  
6 x 11 mm

No. 11026-15

Transport Forceps

With limit screw to prevent excessive applied pressure.



**Straight**  
**Serrated**

14.5 cm  
8 x 11 mm

No. 11031-15

FORCEPS / TWEEZERS

FORCEPS / TWEEZERS

FORCEPS/TWEEZERS

Flagg



Angled  
Serrated

16 cm  
1 x 0.9 mm

No. 11080-02

Anatomical Titanium



Straight  
Serrated

16 cm  
0.5 x 0.5 mm

No. 11602-16

Gerald



Straight  
Serrated

18 cm  
1.4 x 1 mm

No. 11014-18

Curved  
Serrated

18 cm  
1.4 x 1 mm

No. 11015-18

Taylor

Serrated and smooth versions available.



Straight  
Serrated

17 cm  
1.5 x 1 mm

No. 11010-17

Straight  
Smooth

17 cm  
1.5 x 1 mm

No. 11016-17

Curved  
Serrated

17 cm  
1.5 x 1 mm

No. 11011-17

Curved  
Smooth

17 cm  
1.5 x 1 mm

No. 11017-17

Potts-Smith



Straight  
Serrated

18 cm  
1.25 x 1 mm

No. 11012-18

21 cm  
1.8 x 1.5 mm

No. 11012-21

25 cm  
2 x 1.6 mm

No. 11012-25

Curved  
Serrated

18 cm  
1.25 x 1 mm

No. 11013-18

21 cm  
1.8 x 1.5 mm

No. 11013-21

Straight  
1x2 Teeth

18 cm  
1.25 x 1 mm

No. 11024-18

Curved  
1x2 Teeth

18 cm  
1.25 x 1 mm

No. 11025-18

Silicone Tipped Forceps

Long handles make picking up small rodents easy and help prevent bites.



21 cm  
Forceps with serrated  
silicone tips  
15 x 20 mm

No. 11036-20



Replacement silicone tips  
Pkg. of 2 tips


No. 11036-90

FORCEPS/TWEEZERS

Ultra Fine Hemostat

These are the finest hemostats in our product line.






**Straight Smooth**

12 cm  
Tip width: 0.6 mm

No. 13020-12




**Curved Smooth**

12 cm  
Tip width: 0.6 mm

No. 13021-12

Fine Hemostat






**Straight Smooth**

12 cm  
Tip width: 1 mm

No. 13006-12




**Curved Smooth**

12 cm  
Tip width: 1 mm

No. 13007-12

Micro-Mosquito






**Straight Serrated**

12.5 cm  
Tip width: 1 mm

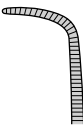
No. 13010-12



**Curved Serrated**

12.5 cm  
Tip width: 1 mm

No. 13011-12



**Angled 90° Serrated**

12.5 cm  
Tip width: 1 mm

No. 13012-12

Mosquito




MOST  
POPULAR



LEFT-HANDED

13108-12  
13109-12






**Straight Serrated**

12.5 cm  
Tip width: 1.1 mm

No. 13008-12

Left handed

No. 13108-12



**Curved Serrated**

12.5 cm  
Tip width: 1.1 mm

No. 13009-12

Left handed

No. 13109-12


Crile

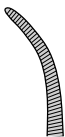
Kelly


Adson-Baby

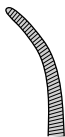
Providence-Hospital

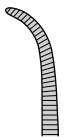



  
**Straight  
Serrated**  
14 cm  
Tip width: 1.5 mm  
**No. 13004-14**

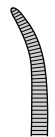
  
**Curved  
Serrated**  
14 cm  
Tip width: 1.5 mm  
**No. 13005-14**

  
**Straight  
Serrated**  
14 cm  
Tip width: 1.5 mm  
**No. 13018-14**

  
**Curved  
Serrated**  
14 cm  
Tip width: 1.5 mm  
**No. 13019-14**

  
**Curved  
Serrated**  
14 cm  
Tip width: 1.3 mm  
**No. 13013-14**

  
**Straight  
Serrated**  
14.5 cm  
Tip width: 1.5 mm  
**No. 13014-14**

  
**Curved  
Serrated**  
14.5 cm  
Tip width: 1.5 mm  
**No. 13015-14**



Hartmann



**Straight  
Serrated**

10 cm  
Tip width: 1 mm

No. 13002-10



**Curved  
Serrated**

10 cm  
Tip width: 1 mm

No. 13003-10

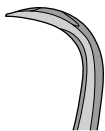
Backhaus Towel Clamp



**Curved  
Round tips**

9 cm

No. 11095-09



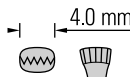
**Curved  
Round tips**

13 cm

No. 11095-13

Allis

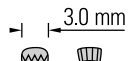
Tissue and organ holding forceps.



**Straight  
5x6 Teeth**

15 cm

No. 11091-15



**Straight  
4x5 Teeth**

12 cm

No. 11092-12

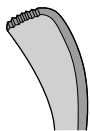
Lorna Towel Clamp



**Curved  
Serrated**

10 cm  
Tip width: 7 mm

No. 11096-10



**Curved  
Serrated**

13 cm  
Tip width: 7 mm

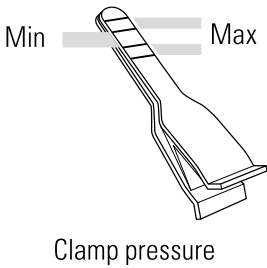
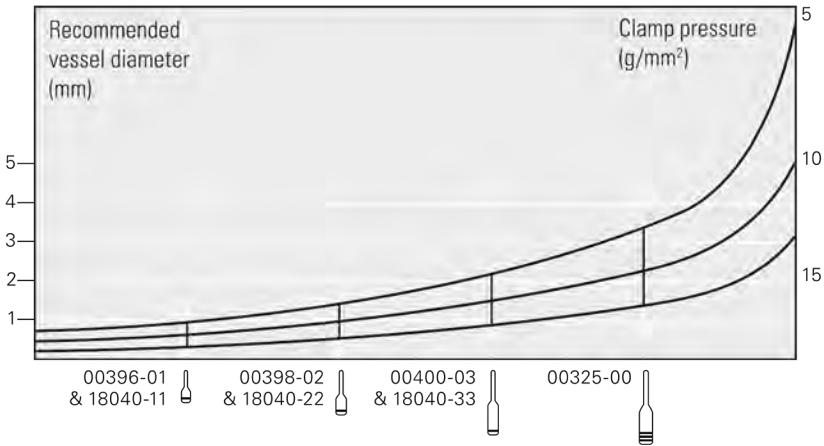
No. 11096-13

Clamp Size and Clamp Pressure

Clamp pressure is determined by the closing force of the clamp (in grams), divided by the area of the vessel wall that is compressed between the jaws (in square millimeters). Thus, the smaller the vessel, the higher the pressure exerted.

Despite the wide range of closing forces, the pressure exerted by each clamp, big or small, remains consistent throughout the series. Each size of clamp exerts a pressure of 5 g/mm<sup>2</sup> when used on the largest vessel in its range, and 15 g/mm<sup>2</sup> when used on the smallest vessel. Even at the higher range, S&T®'s micro clamps have the gentlest working pressure of any small vessel clamp available.

Clamp (ea)	L x W (mm)	Vessel Diameter Range (mm)
00396-01 & 18040-11	3.5 x 1.0	0.4 - 1.0
00398-02 & 18040-22	5.5 x 1.5	0.6 - 1.5
00400-03 & 18040-33	7.5 x 1.75	1.0 - 2.25
00325-00	10 x 2.15	2.0 - 5.0



Micro Clamps



S&T B-1

No. 00396-01



S&T B-2

No. 00398-02



S&T B-3

No. 00400-03



S&T HD-S

No. 00325-00

Micro Double

For vascular approximation at anastomosis. These clamps are mounted on a 10 mm sliding bar and can easily be moved by applying gentle force. The distance between the jaws of the clamps is adjustable from 3 to 16 mm.



No. 18040-11



No. 18040-22



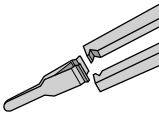
No. 18040-33

Micro Clamps

Compatible with S&T® Clamps and Double Micro Clamps. For clamp sizes B-1, B-2, B-3, and HD-S, as well as Item Nos. 18040-11, 18040-22, and 18040-33.

Micro Clamp Applying Forceps

For use with S&T® vascular clamps.

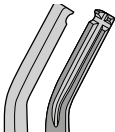


14 cm  
Lock: Yes

No. 00071-14

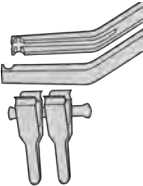
Lock: No

No. 00072-14



14.5 cm  
Lock: No

No. 18040-14



Micro Clip Applicator with Lock

Micro Clip Applicator Forceps Style

Biemer Clip Applicator Forceps Style

This applicator features special U-shaped side supports for improved seating of the clips.

Application forceps for Biemer clips made of Surgical Stainless Steel.

Micro Clips Stainless Steel

Used to obtain a clear surgical field for extended arterial cross-clamping.

Biemer Clips

Serrated: Yes  
Straight

15 mm  
Clamping Length: 6 mm

18 mm  
Clamping Length: 9 mm

Closing pressure:  
0.29 - 0.39 N / 30 - 40 g



Biemer clips should never be compressed with fingers; use only the appropriate applicator No. 18059-14.

Mini Bulldog Artery Clip

Can be used with a minimum of distortion for MRI investigations.



Straight



No. 18144-30

30 mm  
Serrated: Yes  
Strong pressure

Moria

Moria Vessel Clamp

Straight

33 mm  
Serrated: Yes  
Light pressure  
Jaw dimensions: 13 x 1.5 mm



No. 18320-11

Moria De Wecker Clamp

50 mm  
Serrated: No  
Strong pressure  
Jaw dimensions: 16 x 2.5 mm



No. 18374-43

Straight

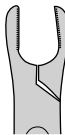
Moria MC43

Curved

Moria MC44



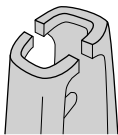
No. 18374-44



14 cm  
For use with 18055-XX and 18555-XX series micro serrefines.

Lock: Yes

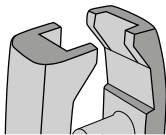
No. 18056-14



14 cm  
For use with 18055-XX and 18555-XX series micro serrefines.

Lock: No

No. 18057-14



14 cm  
For use with 18058-XX (Biemer Clip) series

Lock: No

No. 18059-14



Delicate atraumatic serration

Jaw dimesions (mm)	Total length (mm)	Jaw pressure (g)	Item	
10 x 2	19	60	No. 18055-01	
8 x 2	16	85	No. 18055-02	
6 x 1	15	100	No. 18055-03	
4 x 0.75	13	125	No. 18055-04	

Jaw dimesions (mm)	Total length (mm)	Jaw pressure (g)	Item	
6 x 1	17	70	No. 18055-05	
6 x 1	16	70	No. 18055-06	

Micro Clips Titanium

Lightweight with strong clamping pressure.

Delicate atraumatic serration



Jaw dimesions (mm)	Total length (mm)	Jaw pressure (g)	Item	
10 x 2	19	60	No. 18555-01	
8 x 2	16	85	No. 18555-02	
6 x 1	15	100	No. 18555-03	
4 x 0.75	13	125	No. 18555-04	

Diethrich

Serrated: Yes  
Closing pressure: 80 g



Straight  
52.5 mm

No. 18038-45

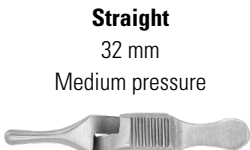
Angled  
50 mm



No. 18039-45

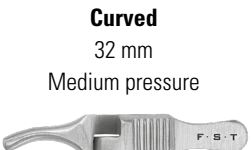
Dieffenbach

Serrated: Yes



Straight  
32 mm  
Medium pressure

No. 18050-32



Curved  
32 mm  
Medium pressure

No. 18051-32



Straight  
35 mm  
Medium pressure

No. 18050-35



Curved  
35 mm  
Medium pressure

No. 18051-35



Straight  
50 mm  
Strong pressure

No. 18050-50



Curved  
50 mm  
Strong pressure

No. 18051-50

Schwartz



Serrated: No  
Strong pressure  
26 mm



Straight

No. 18052-01



Light bend

No. 18052-02



Sharp bend

No. 18052-03

Mini Serrefines

28 mm  
Medium pressure  
Serrated: Yes  
Jaw dimensions: 6 x 2 mm



Straight

No. 18054-28



Curved

No. 18053-28

Vascular Occluders

Applications

- Fast, dependable zero-flow baseline determination in blood flow studies.
- Partial to full occlusion of vessels for circulation research studies.
- Prolonged implantations, such as chronic blood flow studies.
- Constriction of soft organs in acute or chronic applications.

Operation instruction

1. Apply the occluder cuff around the exposed blood vessel. Secure it in place with suture material through the eyelets.
2. Occlude the vessel to the desired degree by inflating the diaphragm with air or liquid injected into the actuating tube using a syringe and blunt needle. Clamp the tubing to maintain occlusion of the vessel over time.
3. To deflate, simply withdraw the air or liquid.



The actuating tube length is 90 cm and measures 0.76 mm ID x 1.6 mm OD. Detailed instructions are included.

A: Lumen diameter  
B: Cuff width  
C: Cuff thickness

VO-1.5 N

A: 1.5 mm - B: < 3.5 mm - C: 1.5 mm

No. 18080-01

VO-2

A: 2 mm - B: 5 mm - C: 1.5 mm

No. 18080-02

VO-3

A: 3 mm - B: 5 mm - C: 1.5 mm

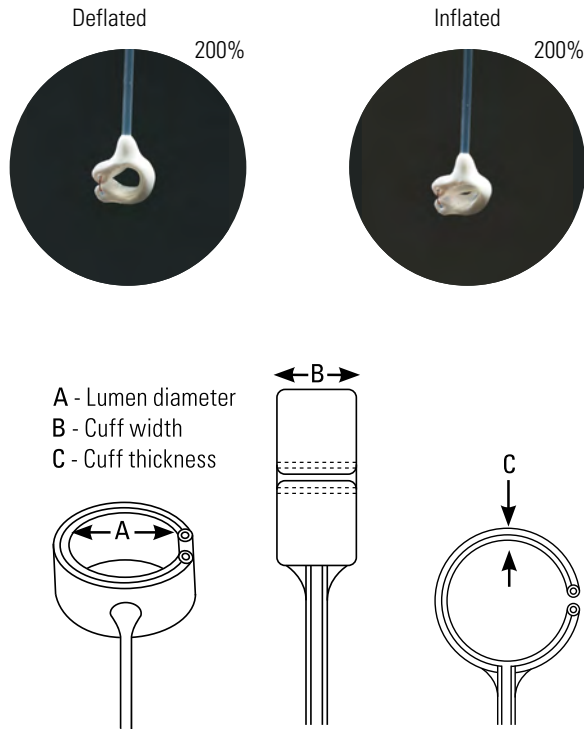
No. 18080-03

Benefits

- Occlusion is accomplished without traction on vessels or surrounding tissues.
- The actuating tube may be exteriorized from the occlusion site for remote actuation.
- Performance during implantations is reliable and consistent.
- Easily maintained: can be autoclaved or cold sterilized.
- Made from soft, flexible 100% silicone rubber.
- Fully operational with instant response using air, liquids, or inert gases.

Selection

The lumen diameter when deflated is usually the determining factor in the selection of the proper device. Select the occluder size that provides a slightly loose fit around the subject vessel. The cuff width and thickness will vary, depending on models and sizes.



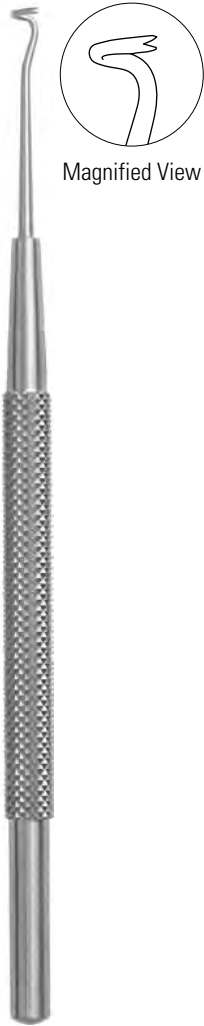


VASCULAR INSTRUMENTS

VASCULAR INSTRUMENTS

V-Hook

Aids in feeding fine suture around blood vessels, works very similar to ligation aids.



Magnified View



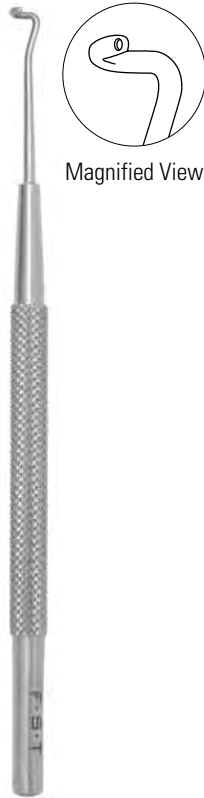
11 cm

Tip Dimensions: 0.4 x 0.2 mm

No. 18052-12

Ligation Aids

A handy instrument for leading a fine suture under and around a blood vessel for tying-off purposes. Also useful for ligating peripheral nerves. Grooves toward hole help threading.



Magnified View



10.5 cm

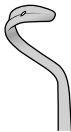
Hole Ø: 0.4 mm

No. 18062-12



Magnified View

Magnified View



13.5 cm

Hole Ø: 1 mm

No. 18062-13



13.5 cm

Hole Ø: 1 mm

No. 18063-13

Vessel Dilators

Highly modified forceps with elongated, parallel tips which are highly polished. Designed for controlled intraluminal vessel dilation.



Angled 10°

11 cm  
Tip Ø: 0.1 mm

No. 00126-11

Tip Ø: 0.2 mm

No. 00125-11



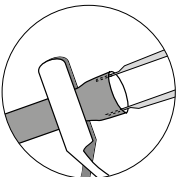
Angled 10°

12 cm  
Tip Ø: 0.1 mm

No. 18131-12

Tip Ø: 0.2 mm

No. 00276-13



Angled 45°

13.5 cm  
Tip Ø: 0.2 mm

No. 00276-13



Angled 10°

12 cm  
Tip Ø: 0.1 mm

No. 18131-12

Tip Ø: 0.2 mm

No. 18132-12

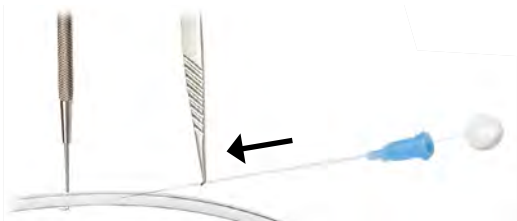
Micro Cannulation System

This micro cannula is most helpful for quick and easy insertion in arteries and veins. It can be used as an “indwelling” catheter during long term experiments. With care, thorough rinsing and sterilization, it can be reused several times. Detailed instructions are included.



- Features
- Biocompatible Teflon® tubing.
  - Cannula size 0.33 mm OD – 0.16 mm ID
  - A pointed Surgical Stainless Steel stylus (trocar), to aid in vascular penetration and allow a maximum range of cannula manipulation during insertion.
  - Contoured tip for easy insertion, fitted with shoulder for “tie-in” to prevent accidental removal.
  - Female luer connection for linkage to infusion lines.

**1 Approach**  
Cannulation Forceps (Item No. 18403-11) and Spinal Cord Hook (Item No. 10162-12) aid in the insertion process.



**2 Insertion**  
Remove trocar and advance cannula.



**3 Secure**  
Use shoulder hub and suture to “tie in” cannula to prevent accidental removal.

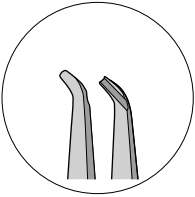


Instruments sold separately.

8 cm  
Cannula size: 0.33 mm OD - 0.16 mm ID  
**No. 18000-10**

Tubing Introducer Forceps

These vessel cannulation forceps are useful whenever a fine plastic tube has to be introduced into a small blood vessel of almost equal size. The hollowed jaws hold the tubing securely without deforming it. The tip of the tubing is directed exactly into the vessel opening without damage to the vessel from unwanted movement.



S&T®

F · S · T  
by DUMONT®



For tubing of 0.35 mm OD  
11 cm  
**No. 00608-11**

For tubing of 0.6 mm OD  
11 cm  
**No. 00574-11**



For tubing of 0.35 mm OD  
13 cm  
**No. 11280-11**

For tubing of 0.5 mm OD  
13 cm  
**No. 11281-11**

For tubing of 1 mm OD  
13 cm  
**No. 11282-11**



For tubing of 0.35 mm OD  
11.5 cm  
**No. 18403-11**

For tubing of 0.6 mm OD  
11.5 cm  
**No. 18406-11**

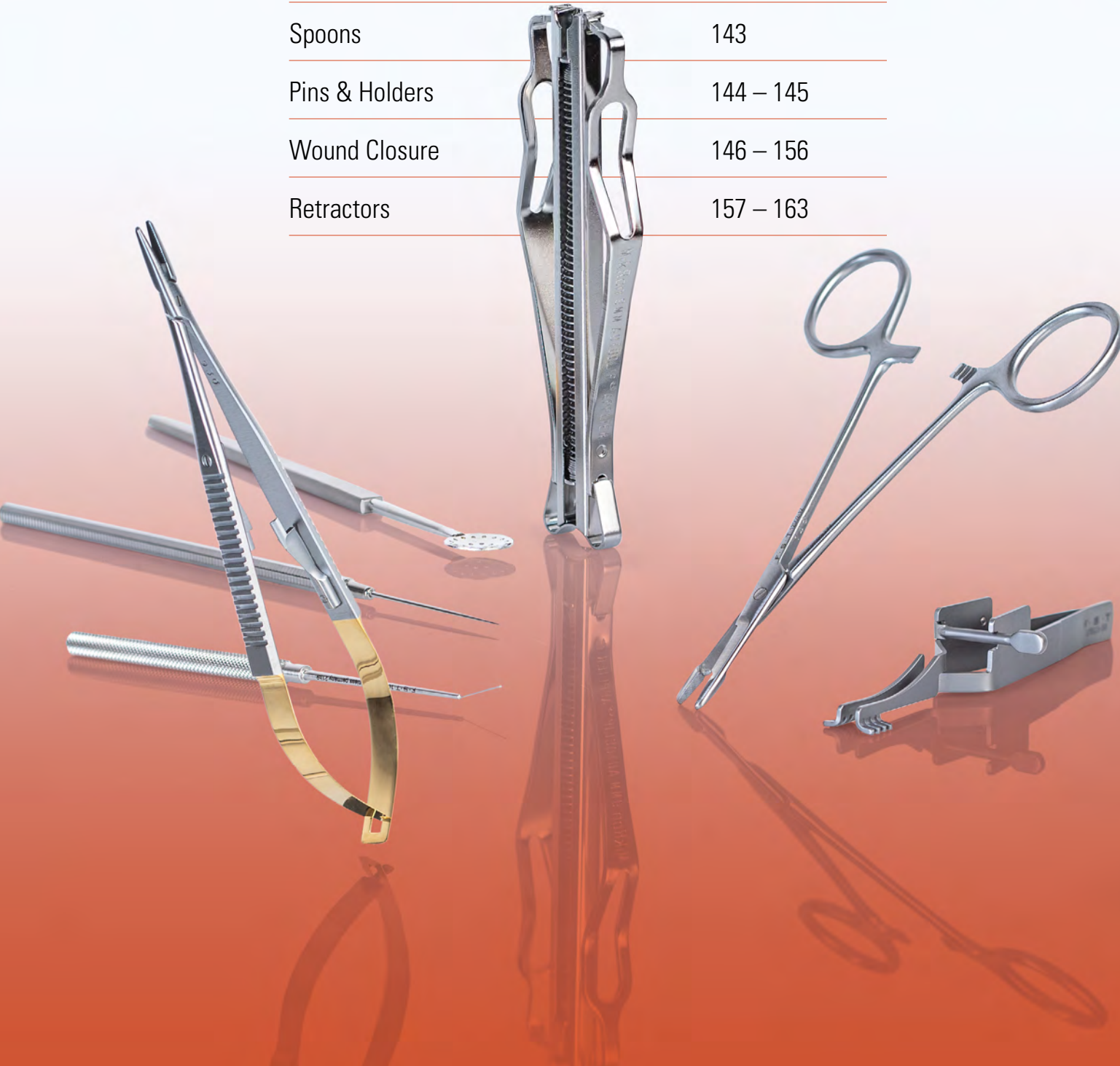
For tubing of 0.6 mm OD  
13.5 cm  
**No. 18406-13**

VASCULAR INSTRUMENTS

VASCULAR INSTRUMENTS

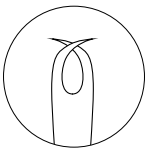
PROBES, NEEDLE HOLDERS,  
WOUND CLOSURE,  
RETRACTORS

Probes & Hooks	133 – 138
Spatulae	139 – 142
Spoons	143
Pins & Holders	144 – 145
Wound Closure	146 – 156
Retractors	157 – 163

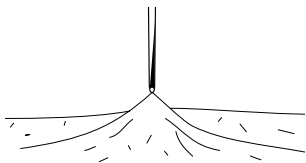


Double Pronged Hook

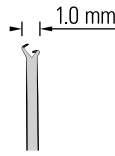
For peritoneum, pleura, endocardium, organ capsules and skin. Grasps lifts skin, tissue and dura etc.



Magnified View



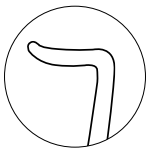
The tip consists of two very sharp, nearly horizontally opposed points. By applying gentle downward pressure and twisting slightly in a clockwise fashion, the points will embed themselves horizontally into fine membranes or skin etc., so that it may be lifted upward. This instrument also has been used successfully when separating fine tissue from an underlying area that is not to be cut.



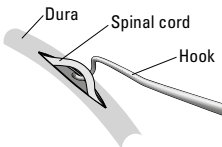
11 cm  
Tip Ø: 1 mm

No. 18067-11

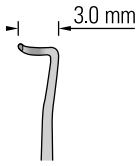
Spinal Cord Hook



Magnified View



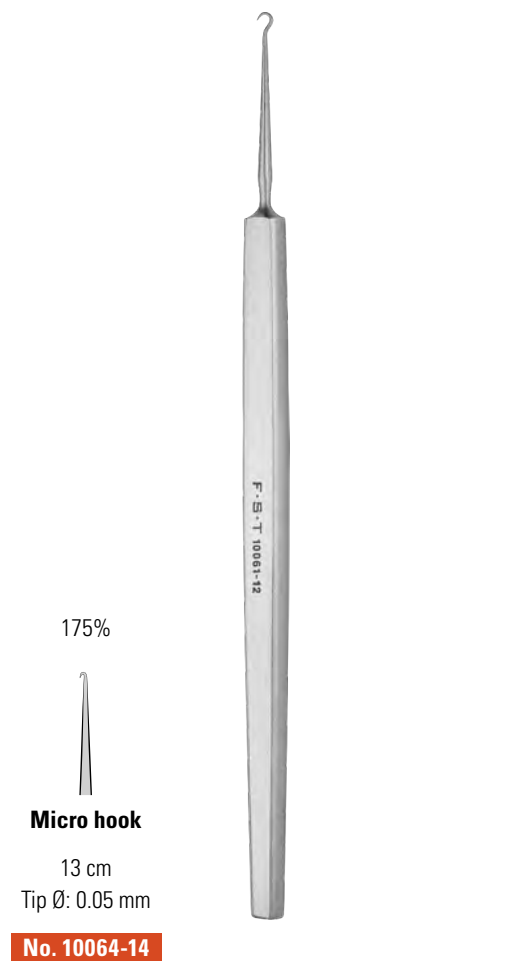
Shaped like a ligation aid and sized to isolate the spinal cord. The cord can then be cut with minimal damage to the dura.



11 cm  
Tip Ø: 3 mm

No. 10162-12

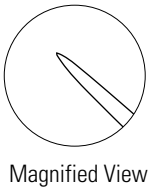
## Graefe Micro Hooks





Titanium Micro Point, Y-Hook, and Spatula

These instruments are lightweight, color coded for easy identification, have an ergonomic design and a non-reflective surface.



Micro Point



Angled 45°

12.5 cm  
Tip Ø: 0.4 mm

No. 10165-11



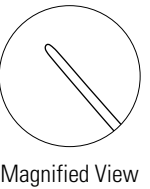
Y-Hook



Angled 45°

12.5 cm  
Tip width: 0.5 mm

No. 10166-11



Micro Spatula



Angled 30°

12.5 cm  
Tip: 0.25 x 0.6 mm

No. 10167-11

Vessel Dilating Probe

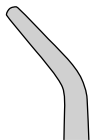


Angled

12.5 cm  
Tip Ø: 0.6 mm

No. 10160-13

Gross Anatomy Probe



Angled 45°

15 cm  
Tip Ø: 1.2 mm

No. 10088-15

Grooved Director

The Grooved Director is a specialized multipurpose device which is used by surgeons in different areas to probe cavities and wounds for example.



13 cm  
with Tongue Tie

No. 10290-13

Combination Spoon and  
Spatula

Combination Probe and  
Spatula

Micro Spatula

Mirror Finish Micro  
Spatula

Mirror finished to  
provide a non-stick  
spatula.

Double-Ended  
Micro Spatula



17.5 cm  
Spoon: Ø 7 mm / Spatula: 30 x 7 mm



No. 10090-17



14 cm  
13 x 7 x 0.6 mm  
Tip Ø: 0.1 mm



No. 10090-13



11 cm  
17.5 x 1 x 0.25 mm

Straight

No. 10089-11



12 cm  
15 x 0.8 x 0.25 mm

Curved

No. 10087-12



13 cm  
25 x 2 x 0.3 mm

Curved/Angled

No. 10091-12

PROBES & HOOKS

SPATULAE

Wecker Iris Spatula



Curved

12.5 cm  
20 x 1.8 x 0.3 mm

No. 10092-12



Slightly curved

12.5 cm  
23 x 1.8 x 0.3 mm

No. 10093-13



Straight

13 cm  
25 x 3 x 0.5 mm

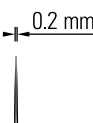
No. 10094-13

Micro Spatula Kit

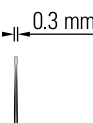
Kit with 4 pieces.



150% of  
actual size



0.2 mm



0.3 mm



0.5 mm



0.7 mm

Straight

6 cm

Tip width: Black: 0.2 mm, Blue: 0.3 mm, Green: 0.5 mm, Red: 0.7 mm

No. 10098-06

Mini Hippocampal Dissecting Tool

The instrument ends are malleable to allow you to adjust their shape to the correct angle for optimal positioning.

Hippocampal Dissecting Tool

The instrument ends are malleable to allow you to adjust their shape to the correct angle for optimal positioning.

Spoon

Mini Perforated Spoon

Most commonly used to take embryos out of solution and handling very small organs.

Perforated Spoon

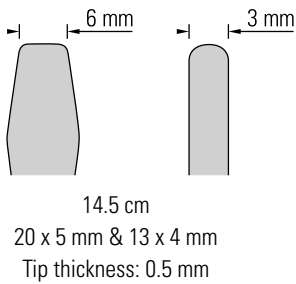
Most commonly used to take embryos out of solution and handling very small organs.

Mirror Finish Cutting Spoon

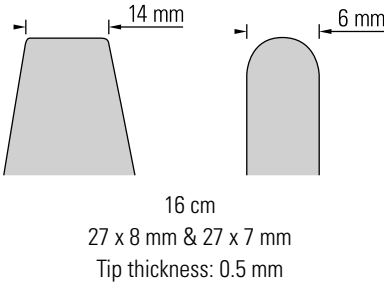
Non stick cutting spoon.



SPATULAE



No. 10099-12



No. 10099-15



Moria 1121B

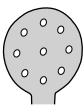


12.5 cm  
Tip Ø: 8 mm  
Depth: 2 mm

No. 10321-08



Moria MC 17C

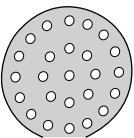


10 cm  
Tip Ø: 8 mm  
Depth: 1 mm  
Hole Ø: 0.8 mm

No. 10370-19



Moria MC 17 BIS

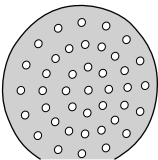


14.5 cm  
Tip Ø: 15 mm  
Depth: 3 mm  
Hole Ø: 0.9 mm

No. 10370-18



Moria MC 17



14.5 cm  
Tip Ø: 20 mm  
Depth: 5 mm  
Hole Ø: 0.9 mm

No. 10370-17



13 cm  
Tip Ø: 4.5 mm  
Depth: 0.15 mm

No. 10360-13

SPOONS



Pin/Needle Holder

Light weight.



17 cm

Aluminum handle with nickel-plated chuck  
Jaw opening: 0 to 1 mm

No. 26018-17

Moria Pin/Needle Holder



Moria



Moria MC1

12 cm

Nickel-plated  
Jaw opening: 0 to 1 mm

No. 26016-12

Needle Inserts

All insert pins fit any of our pin holders.  
Pins are antimagnetic and acid resistant.

5 cm  
Surgical Stainless Steel (Inox)



Lancet

No. 26007-01



Straight

No. 26007-02



Curved

No. 26007-03



Lancet half

No. 26007-04



Spatula

No. 26007-05

Minutien Pins Black Anodized

These high quality pins are black for  
best visibility under high magnification  
and bright light.

Tip Ø: 0.0175 mm  
Rod Ø: 0.15 mm  
1.2 cm

Box of 500 pins

No. 26002-15



Minutien Pins  
Stainless Steel

The thinnest and finest  
pins available.



Tip Ø: 0.0125 mm  
Rod Ø: 0.1 mm  
1.2 cm

Box of 500 pins

No. 26002-10

Tip Ø: 0.0175 mm  
Rod Ø: 0.15 mm  
1.2 cm

Box of 500 pins

No. 26003-15

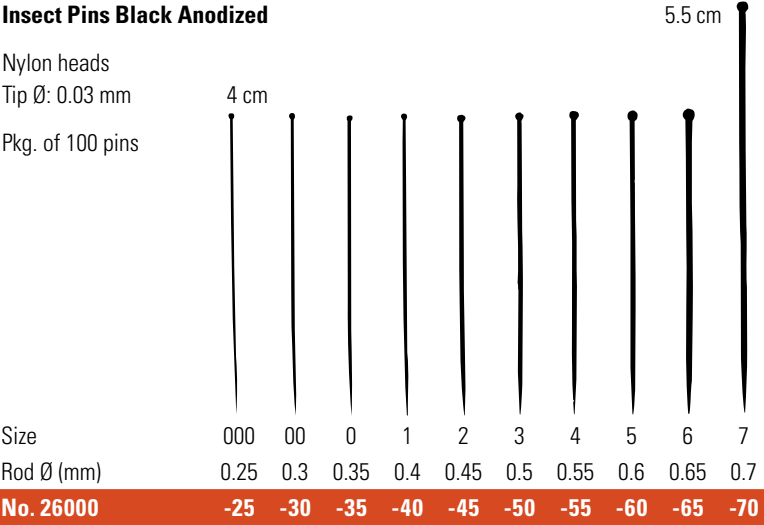
Tip Ø: 0.02 mm  
Rod Ø: 0.2 mm  
1.2 cm

Box of 500 pins

No. 26002-20

Insect Pins Black Anodized

Nylon heads  
Tip Ø: 0.03 mm  
Pkg. of 100 pins



Insect Pins Stainless Steel

Nylon heads  
Tip Ø: 0.03 mm  
Pkg. of 100 pins

Size	000	00	0	1	2	3	4	5	6	7
Rod Ø (mm)	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7
No. 26001	-25	-30	-35	-40	-45	-50	-55	-60	-65	-70

Etched Tungsten Micro Needles

These Tungsten micro needles are drawn to an approxi-  
mate 1 micron tip and three different rod diameters are  
offered. Each provides lateral stability as well as minimal  
spring action during manipulation. The micro needles can  
be used with our pin holders shown on page 144.



Tip Ø: 1 µm  
Box of 10 needles

Rod Ø (mm)	Item
0.125	No. 10130-05
0.25	No. 10130-10
0.5	No. 10130-20

Castroviejo Micro

Micro pattern, with slightly blunted tips.



Never use a micro needle holder with needles that are too thick, as this can easily damage the fine jaws. Use only micro needles of less than 0.2 mm diameter (see page 152).



Straight

9 cm  
Tip width: 0.6 mm  
Lock: Yes

No. 12060-01



Curved

9 cm  
Tip width: 0.6 mm  
Lock: Yes

No. 12061-01

Tip width: 0.6 mm  
Lock: No

No. 12060-02

Tip width: 0.6 mm  
Lock: No

No. 12061-02

Round-Handled Micro/Macro

These Round-Handled Needle Holders have a dual-purpose and can be used for microscopic and macroscopic applications. The fine tapered tips can be used to handle small needles up to 0.2 mm in diameter. While the remaining portion of the tip ensures a secure hold for larger needles. The balanced design improves control and stability, while the ergonomic handle enhances grip and reduces hand strain.



Curved

13.5 cm  
Tip width: 0.4 mm  
Lock: No

No. 12875-13

Round Handled Micro

Round handles allow easy fingertip adjustments.



Straight

12.5 cm  
Lock: Yes

No. 12075-12

Lock: No

No. 12076-12



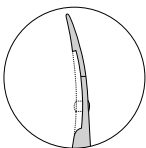
Curved

12.5 cm  
Lock: No

No. 12074-12

Round Handled with Suture Cutter

Round handles allow easy fingertip adjustments.



Actual size



Never use a micro needle holder with needles that are too thick, as this can easily damage the fine jaws. Use only micro needles of less than 0.2 mm diameter (see page 152).



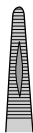
Curved

14 cm  
Cutting edge: 3.5 mm  
Lock: No

No. 12075-14

Kalt

The Kalt needle holder is characterized by its extraordinary design and good handling. The closure system closes softly and securely and can be easily opened again with your thumb.



Straight

Serrated: Yes  
14 cm  
Lock: Yes

No. 12080-14



Curved

Serrated: Yes  
14 cm  
Lock: Yes

No. 12081-14

WOUND CLOSURE

WOUND CLOSURE

Castroviejo with Tungsten Carbide Jaws



Straight

14 cm

Tungsten Carbide jaws  
Lock: Yes

No. 12565-14

Mathieu

Extra slim and narrow profile, with squeeze-lock.  
Facilitates excellent wrist motion for suturing.



12510-14



14 cm

Extra narrow profile  
Lock: Yes

No. 12010-14



14 cm

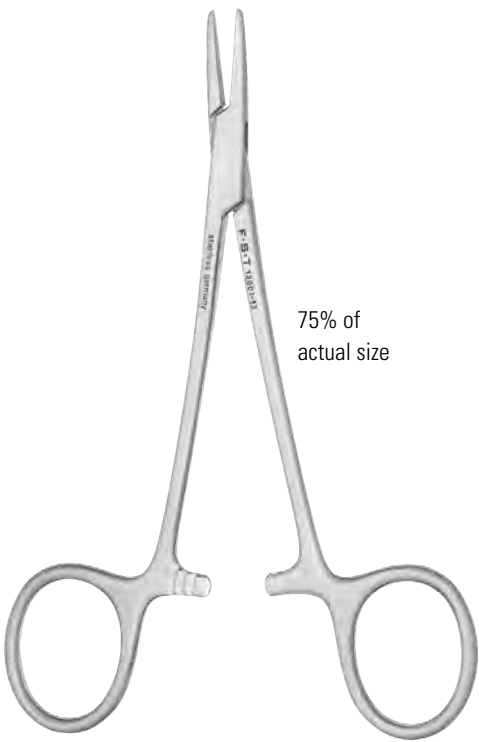
Tungsten Carbide jaws  
Lock: Yes

No. 12510-14

Halsey



12501-13



75% of  
actual size



13 cm

Smooth  
Lock: Yes

No. 12001-13



13 cm

Tungsten Carbide jaws  
Lock: Yes

No. 12501-13

Halsey Micro with Tungsten Carbide Jaws



75% of  
actual size



12 cm

Tungsten Carbide jaws  
Lock: Yes

No. 12500-12

WOUND CLOSURE

WOUND CLOSURE

Olsen-Hegar

Olsen-Hegar with Tungsten Carbide Jaws

Mayo-Hegar

Crile-Wood

Slim Elongated with Tungsten Carbide Jaws

 MOST POPULAR

 LEFT-HANDED

12102-12

 LEFT-HANDED

 TUNGSTEN CARBIDE

12512-12

12502-12

12512-12

 LEFT-HANDED

 TUNGSTEN CARBIDE

12504-15

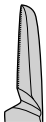
12503-15

12504-15

 TUNGSTEN CARBIDE



70% of actual size

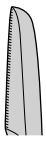


12 cm

Cutting edge: 10 mm  
Lock: Yes

No. 12002-12

No. 12102-12



14 cm

Cutting edge: 15 mm  
Lock: Yes

No. 12002-14



70% of actual size



12 cm

Tungsten Carbide jaws  
Cutting edge: 10 mm  
Lock: Yes

No. 12502-12

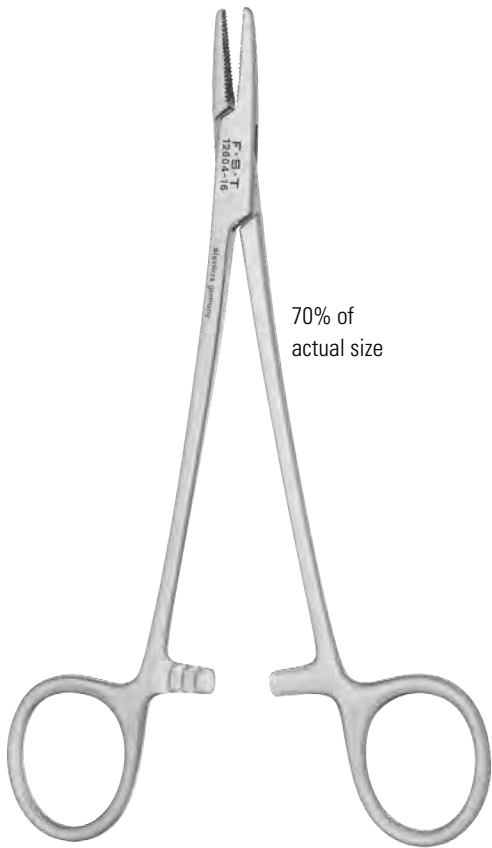
No. 12512-12



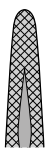
14 cm

Tungsten Carbide jaws  
Cutting edge: 15 mm  
Lock: Yes

No. 12502-14



70% of actual size



15 cm

Lock: Yes

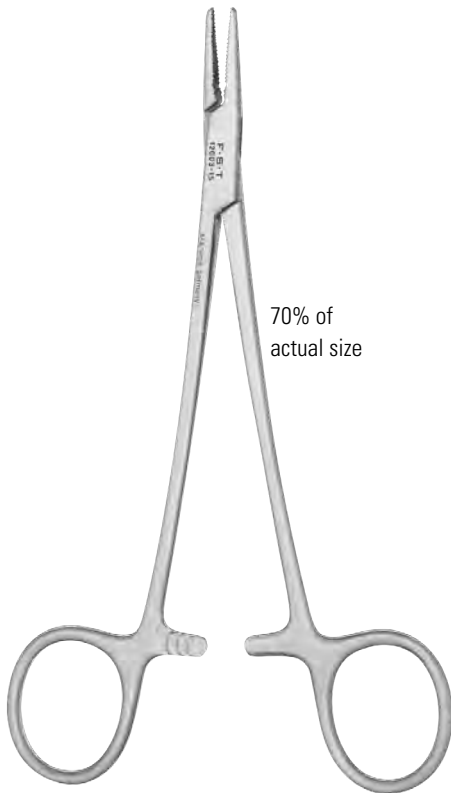
No. 12004-16



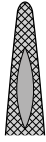
18 cm

Lock: Yes

No. 12004-18



70% of actual size



15 cm

Lock: Yes

No. 12003-15



15 cm

Lock: Yes

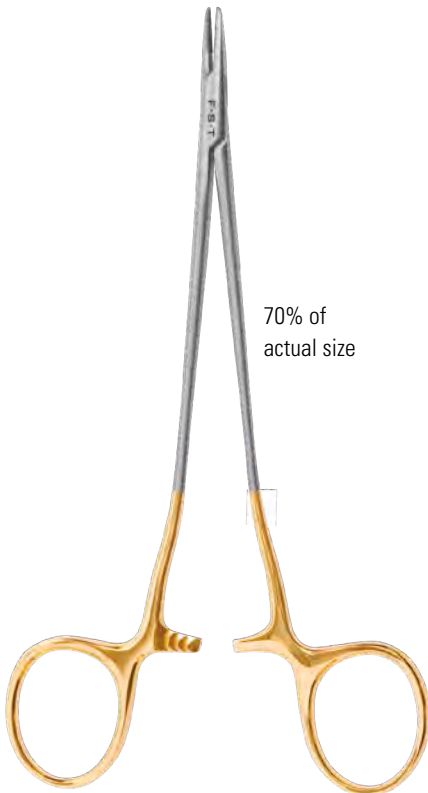
No. 12503-15



15 cm

Lock: Yes

No. 12504-15



70% of actual size



15 cm

Tungsten Carbide jaws

Lock: Yes

No. 12005-15

WOUND CLOSURE

WOUND CLOSURE



Microsurgical Needles with Suture Thread Attached

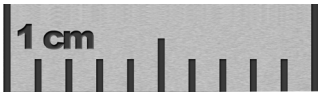
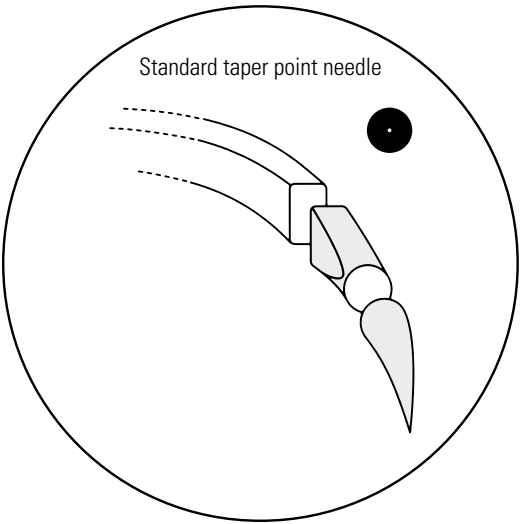
The combination of proprietary needle design technology and state-of-the-art manufacturing techniques has enabled FST® to provide a microsurgical needle that is unmatched in the industry. FST microsurgical needles provide frictionless tissue penetration. They are inspected under the microscope at critical stages during the manufacturing process, and a multi-point final inspection of each suture and needle combination ensures a high quality product. The suture-to-needle attachment is tested to higher standards than the USP specifications.

Features:

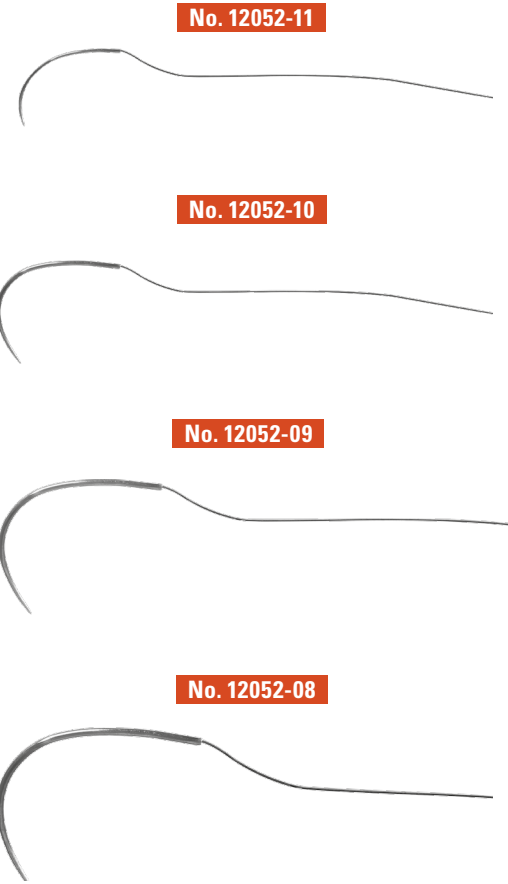
- Needle and thread combination comprising of nonabsorbable black nylon polyamide monofilament thread and Surgical Stainless Steel 3/8 circle needle. Nylon is suitable for closing ophthalmic, neurological and microvascular wounds.
- 3/8 circle precision taper point. Surgical Stainless Steel needle honed under microscope by hand. Superfine round tip with flattened body to improve stability in needle holder. Easy penetration. Precise stitch placement.
- Grinding geometry and suture needle attachment are directed toward frictionless tissue penetration.
- Each needle suture combination is individually packed and sealed in a peel-open blister pack.

Sterile

Pkg. of 12 disposable units



400% of actual size



Suture size	Suture length (cm)	Needle Ø (micron)	Needle Ø (mm)	Needle chord length (mm)	Circle	Item
8/0	15	140	0.14	29	3/8	No. 12052-08
9/0	15	100	0.1	24	3/8	No. 12052-09
10/0	10	70	0.07	18	3/8	No. 12052-10
11/0	10	50	0.05	16	3/8	No. 12052-11

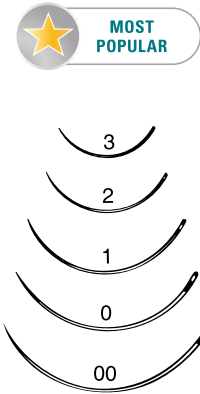
Kalt Suture Needles

- Polished Surgical Stainless Steel
- 3/8 curved
- Round with standard eye
- Suitable for sutures up to 0.32 mm diameter

Ø: 0.35 mm

Sterile: No

Pkg. of 12 needles



Size	Needle Chord Length (mm)	Item
3	12 mm	No. 12050-03
2	16 mm	No. 12050-02
1	20 mm	No. 12050-01
0	23 mm	No. 12050-10
00	26 mm	No. 12050-20

Silk Suture

Silk suture has a smooth flow through tissue while maintaining knot security.

Braided Silk

Sterile: No

Can be ETO sterilized



Size	Suture Ø (mm)	Spool length (m)	Item
7/0	0.05	91	No. 18020-70
6/0	0.08	23	No. 18020-60
5/0	0.12	23	No. 18020-50
4/0	0.17	23	No. 18020-40
3/0	0.22	23	No. 18020-30
2/0	0.32	23	No. 18020-20
0	0.37	23	No. 18020-00
1	0.45	23	No. 18020-01
2	0.55	23	No. 18020-02
3	0.65	23	No. 18020-03

For Suture Tying Forceps, see pages 99 - 101 und 111.

Nylon Monofilament Suture

Nylon is known for its uniform diameter flexibility and outstanding consistent knot security.

Nylon monofilament

Sterile: No

Can be ETO sterilized

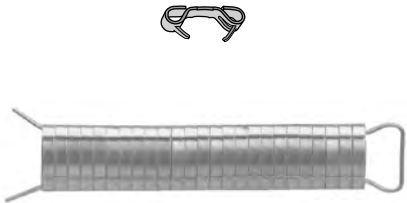


Size	Suture Ø (mm)	Spool length (m)	Item
8/0	0.04	91	No. 18030-80
7/0	0.05	91	No. 18030-70
6/0	0.07	91	No. 18030-60
5/0	0.1	91	No. 18030-50
4/0	0.15	91	No. 18030-40
3/0	0.2	91	No. 18030-30

Michel Suture Clips

- Anti-magnetic
- Acid-resistant Surgical Stainless Steel
- Pkg. of 1,000 clips

Size (mm)	Item
7.5 x 1.75	No. 12040-01
11 x 2	No. 12040-02
12 x 2.5	No. 12040-03



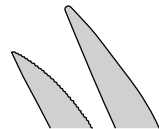
Applying Forceps



12.5 cm  
For clip sizes 12040-02 and 12040-03

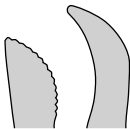
No. 12018-12

Applying and Removing Instruments



**Angled**  
13 cm  
For clip size 12040-01

No. 12029-12



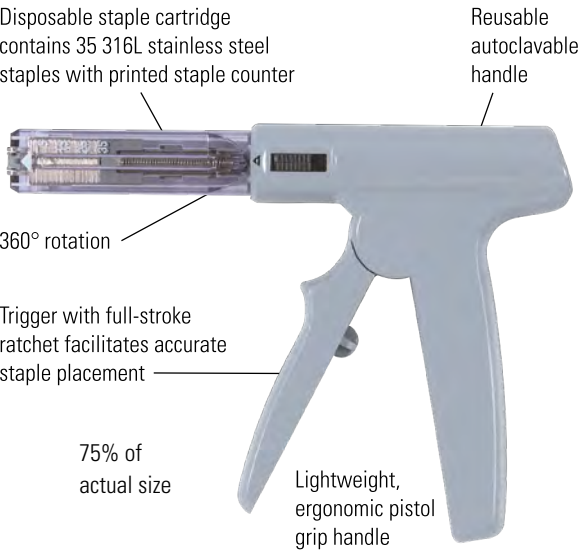
**Curved**  
13 cm  
For clip sizes 12040-02 and 12040-03

No. 12028-12

Reloadable Skin Stapler with Rotating Head

The 360° swivel nose and unique design offers maximum visibility at the delivery point. The Surgical Stainless Steel staples are non-sterile and feature a patented staple design which make for quick and easy removal. The disposable staple cartridge includes a printed staple counter.

**The handle is reusable and autoclavable. Staples are non-sterile. Components sold separately or as a kit.**



Disposable staple cartridge contains 35 316L stainless steel staples with printed staple counter

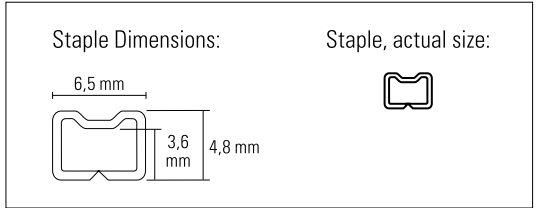
Reusable autoclavable handle

360° rotation

Trigger with full-stroke ratchet facilitates accurate staple placement

75% of actual size

Lightweight, ergonomic pistol grip handle



Surgical staple kit

- 1 Handle
- 1 Remover
- 12 Disposable staple cartridges

No. 12030-20

Single disposable cartridge  
35 staples per cartridge

No. 12030-22

12 disposable cartridges  
35 staples per cartridge

No. 12030-23

Handle

No. 12030-01

Surgical Staple Remover

Compatible with Reloadable Skin Stapler with Rotating Head and Manipler® Skin Stapler.



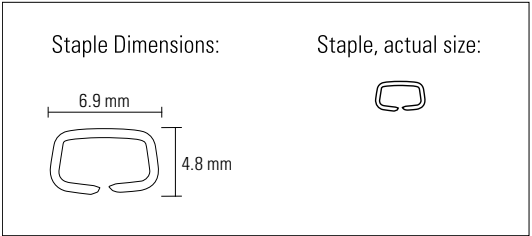
10 cm

No. 12030-04

Manipler® Skin Stapler

Quality, slim, lightweight design with consistent actuation and staple count indicator.

Disposable and sterile.

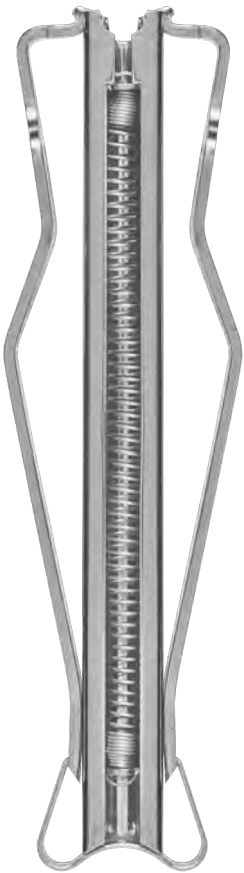


15 cm  
35 staples per cartridge

No. 12035-00

AutoClip® System

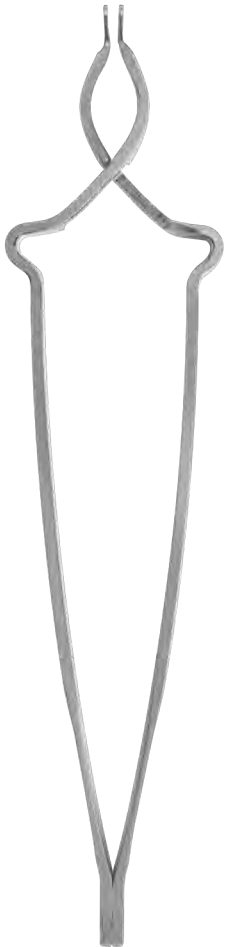
The AutoClip® System is a safe, secure method of wound closure. Faster and easier than suture, this system is perfect when staples may be too thin to provide adequate closure. **Non-sterile. Components sold separately or as a kit.** We recommend using wet steam sterilization at 120-125 °C for at least 30 minutes in an autoclave to sterilize the device.



Applier



Clips



Remover

AutoClip® Kit

- 1 Applier
- 9 mm clips (100)
- 1 Remover
- Storage case

No. 12020-00

AutoClip® applier

11.5 cm

No. 12020-09

AutoClip® clips

9 mm  
Pkg. of 100 clips

No. 12022-09

AutoClip® clips

9 mm  
Pkg. of 1,000 clips

No. 12022-19

AutoClip® remover

12.5 cm

No. 12023-00

Guthrie

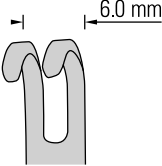
Extra delicate pattern.



13 cm  
2 Blunt

No. 17021-13

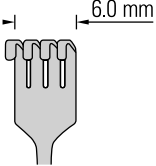
Fine



13.5 cm  
2 Blunt

No. 17023-13

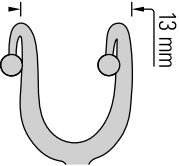
Blair



13 cm  
4 Blunt

No. 17022-13

Fomon

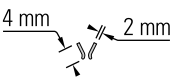


17 cm  
2 with 2 mm Ball each tip

No. 17020-17

80% of actual size

Goldstein Mini with Blades



2 cm  
Max. spread: 1 cm  
Atraumatic blades

No. 17004-03

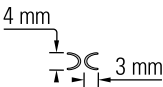
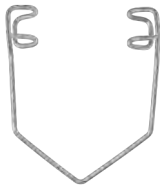
Goldstein Mini



2 cm  
Max. spread: 0.5 cm  
3 x 3 Sharp teeth

No. 17002-02

Barraquer Mini

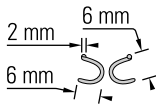


2 cm  
Max. spread: 1 cm

No. 17000-01

Corcelle Speculum

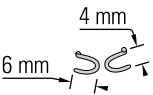
Moria



Moria 7699  
4.5 cm  
Max. spread: 3.5 cm  
Curved

No. 17370-53

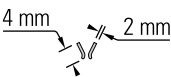
Fine Adjustable Spring Wire



5 cm  
Max. spread: 3.5 cm  
Curved

No. 17004-05

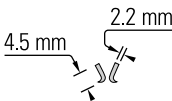
Goldstein Mini with Blunt Teeth



2 cm  
Max. spread: 1 cm  
2 x 2 Blunt teeth

No. 17005-03

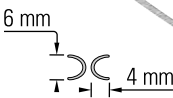
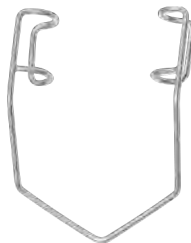
Goldstein



3 cm  
Max. spread: 1.8 cm  
3 x 3 Sharp teeth

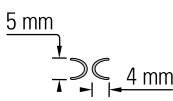
No. 17003-03

Barraquer



3 cm  
Max. spread: 1.5 cm

No. 17000-03



4 cm  
Max. spread: 1.5 cm

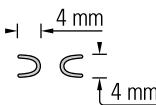
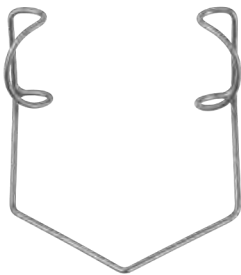
No. 17000-04

3 cm  
Max. spread: 1.2 cm

No. 17000-02

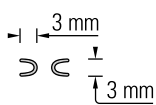
Barraquer

Moria



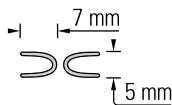
Moria 6346D  
3.4 cm  
Max. spread: 1.5 cm

No. 17300-02



Moria 6346C  
3.3 cm  
Max. spread: 1.5 cm

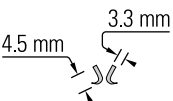
No. 17300-03



Moria 6346B  
3.5 cm  
Max. spread: 2 cm

No. 17300-04

Agricola



4 cm  
Max. spread: 3.5 cm  
3 x 3 Sharp teeth

No. 17005-04

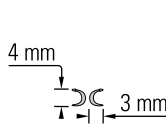
Liebermann with Wire Teeth

Alm

Liebermann

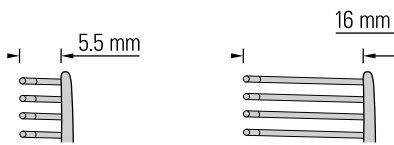
Spring-Loaded Retractor

Curved atraumatic blades.



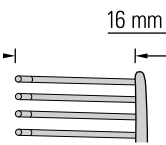
7 cm  
Max. spread: 4 cm  
WireSlightly curved  
down

No. 17010-07



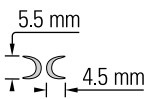
7 cm  
Max. spread: 4 cm  
Slightly curved  
4 x 4 Blunt

No. 17008-07



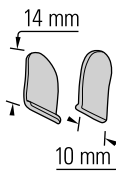
7 cm  
Max. spread: 4 cm  
Blunt teeth  
4 x 4 Blunt

No. 17009-07



8 cm  
Max. spread: 4.5 cm  
Blades

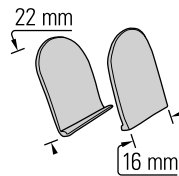
No. 17009-08



6 cm  
Max. spread: 3 cm

14 x 10 mm

No. 17006-05



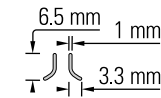
8 cm  
Max. spread: 5 cm

22 x 16 mm

No. 17007-08



Heiss

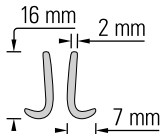
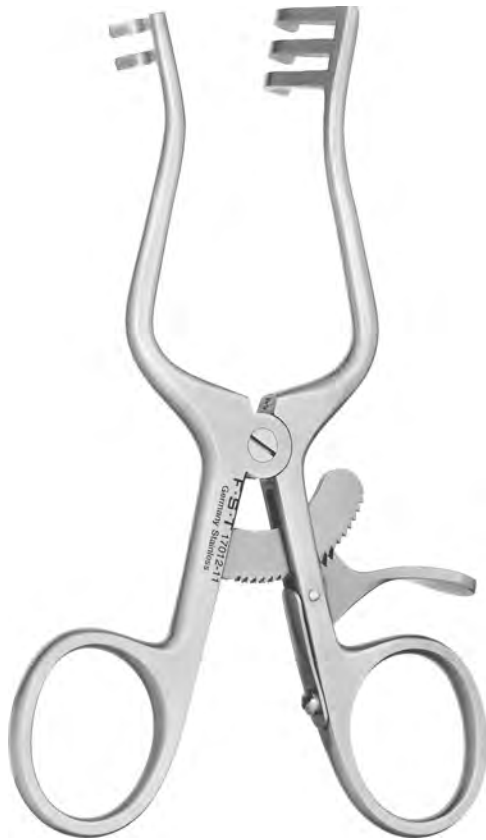


4 x 4 Blunt teeth

10 cm  
Max. spread: 2.3 cm

No. 17011-10

Weitlaner



Straight  
2 x 3 Blunt teeth

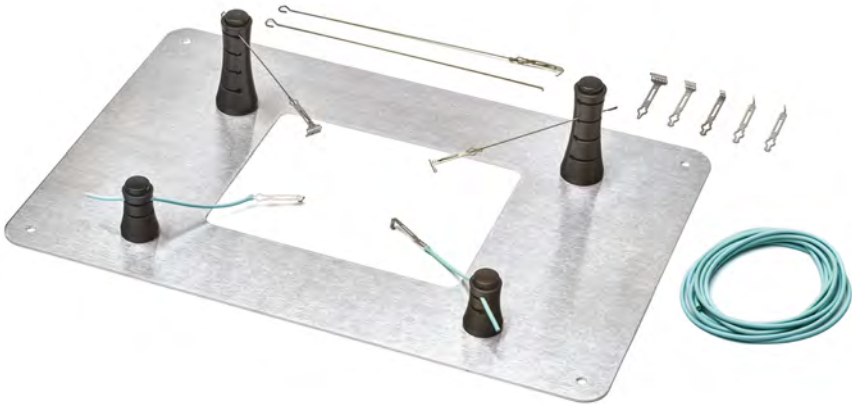
10.5 cm  
Max. spread: 4 cm

No. 17012-11

Straight  
3 x 4 Blunt teeth

13 cm  
Max. spread: 4 cm

No. 17012-13



Magnetic Fixator Retraction System

This Small Animal Retraction System simplifies set-up procedure and provides the examiner with an excellent overview of the operative site. It consists of three components: Base Plate (Nos. 18200-03 & 18200-04); Fixators (Nos. 18200-01 & 18200-02); and Retractors (Nos. 18200-05 through 18200-12).

The Base Plates are made from magnetic Stainless Steel and are available in two sizes. The surface is nonreflective and both plates have a window in the center which allows the animal contact with body temperature control systems. The window sizes are 10 x 13 cm for the small base plate and 15 x 25 cm for the large.

The Fixators are movable anchors made from anodized aluminum with a surgical grade rare earth magnet in the base for attachment anywhere on the Base Plate. The magnets do not interfere with lab electronics and can be used in close proximity (3 cm) to ferro-magnetic items. They incorporate pushbutton-activated spring locks that grip either the Wire or Elastomer Retractors.

The Retractors are interchangeable Retractor Tips (Nos. 18200-08 through 18200-12) which attach to either Retractor Wire (Nos. 18200-05 & 18200-06) for static retraction or to Elastomer (No. 18200-07) for dynamic retraction. The Retractor Tips are light and atraumatic to delicate tissue or membrane.

All items are autoclavable, except for the elastomers.

Kit for animals up to 200 g

Includes:

- 1 Small base plate (No. 18200-03)
- 2 Short fixators (No. 18200-01)
- 1 Tall fixator (No. 18200-02)
- 1 Elastomer, 2 m roll (No. 18200-07)
- 1 Package of retractors, blunt, 1 mm wide (No. 18200-09)
- 1 Package of retractors, blunt, 2.5 mm wide (No. 18200-10)

No substitutions

No. 18200-20



Kit for animals from 200 g up to 5 kg

Includes:

- 1 Large base plate (No. 18200-04)
- 2 Short fixators (No. 18200-01)
- 2 Tall fixators (No. 18200-02)
- 1 Elastomer, 2 m roll (No. 18200-07)
- 1 Package of retractors, blunt, 2.5 mm wide (No. 18200-10)
- 1 Package of retractors, blunt, 5 mm wide (No. 18200-11)

No substitutions

No. 18200-50

Individual parts:

Short fixator, 3 cm high  
Each

No. 18200-01

Tall fixator, 6 cm high  
Each

No. 18200-02

Small base plate, 20 x 30 cm  
Each

No. 18200-03

Large base plate, 25 x 35 cm  
Each

No. 18200-04

Wire handles, 10 cm long  
Pkg. of 10

No. 18200-05

Wire handles, 14 cm long  
Pkg. of 10

No. 18200-06

Elastomer, 2 m roll  
No. 18200-07

Sharp retractors, 1 mm wide  
Pkg. of 10

No. 18200-08

Blunt retractors, 1 mm wide  
Pkg. of 10

No. 18200-09

Blunt retractors, 2.5 mm wide  
Pkg. of 10

No. 18200-10

Blunt retractors, 5 mm wide  
Pkg. of 10

No. 18200-11

Blunt retractors, 7.5 mm wide  
Pkg. of 10

No. 18200-12

ACCESSORIES & INSTRUMENT CARE

Animal Accessories	165 – 170
Instrument Care & Accessories	171 – 182
Surgical Accessories	183 – 186
Laboratory Accessories	187 – 197



Reusable Feeding Needles Ball Tip

Surgical Stainless Steel feeding needles with luer lock hub. Also ideal for transcardiac perfusions with a fixative. The needles come with a round tip.



Gauge	Length (mm)	Tip Ø (mm)	Shape	Mice (g)	Rats (g)	Guinea pigs (g)	Item
24	25	1.25	Straight	>14			No. 18061-24
22	25	1.25	Straight	15-20			No. 18061-22
20	38	2.25	Straight	20-25	50-75		No. 18064-20
20	38	2.25	Curved	20-25	50-75		No. 18065-20
18	38	2.25	Straight	20-30	100-200	250-300	No. 18061-38
18	50	2.25	Curved	25-30	100-200	250-300	No. 18061-50
16	75	3	Curved		150-300	350-450	No. 18061-75
16	100	3	Curved		150-300	350-450	No. 18061-10

These needles come with a barrel tip.



Gauge	Length (mm)	Tip Ø (mm)	Shape	Mice (g)	Rats (g)	Guinea pigs (g)	Item
24	25	1.7	Straight	>14			No. 18060-24
22	25	1.7	Straight	15-20			No. 18060-22
20	30	1.7	Straight	20-25	50-75		No. 18060-20
20	38	1.7	Straight	20-25	50-75		No. 18063-20
20	38	1.7	Curved	20-25	50-75		No. 18067-20
18	38	1.7	Straight	20-30	100-200	250-300	No. 18060-18
18	50	2	Curved	25-30	100-200	250-300	No. 18067-50
16	75	2.4	Curved		150-300	350-450	No. 18067-75
16	100	2.4	Curved		150-300	350-450	No. 18067-10

Single Use Feeding Needles

These economical feeding needles feature plastic luer hubs with silicone tips. They are nontoxic and nonpyrogenic. Needles can be easily formed to any desired shape. **Sterile.**



Gauge	Length (mm)	Tip Ø (mm)	Mice (g)	Rats (g)	Guinea pigs (g)	Item
20	38	1.75	20-25	50-75		No. 18061-20
18	50	2.5	25-30	100-200		No. 18061-18
15	75	3		200-350	400-600	No. 18061-15

Disposable Flexible PTFE Feeding Needles

These affordable needles feature flexible PTFE tube with silicone tip and plastic luer hub, delivered in sterile pouches. They are very flexible, and translucent for easy confirmation of reagent delivery. The soft silicone tips are non-toxic and non-pyrogenic and ensure that no damage occurs during the insertion. **Sterile.**



Gauge	Length (mm)	Tip Ø (mm)	Mice (g)	Rats (g)	Guinea pigs (g)	Item
20	38	1.8	20-25	50-75		No. 18961-20
18	38	2	20-30	100-200	250-300	No. 18961-18
17	52	2.4	25-30	100-200	250-300	No. 18961-17
15	78	2.6		200-350	400-600	No. 18961-15
18	75	2	25-30	150-250	250-300	No. 18961-75
17	85	2.4	25-30	150-250	250-300	No. 18961-85

GenoPunch

The interchangeable GenoPunch aids in the fast and simple collection of the 2 mm tissue sample for DNA analysis and/or genotyping. FST® Exclusive Item. **Autoclavable.**



GenoPunch includes:

- 1 GenoPunch
- 1 0.5 ml tube holder
- 1 1.6 ml tube holder
- 1 Screwdriver
- 4 Screws

FST does not supply microtubes.



11.5 cm  
Surgical Stainless Steel (Inox)  
and anodized aluminum  
Punch Ø: 2 mm

No. 24215-02

The Ear Puncher relieves stress on the wrist during ID marking as it requires only a very gentle pressure to cut a hole. The Stainless Steel puncher has a sloped edge that provides a cut rather than a punch, which minimizes discomfort. The ear puncher should be lubricated to improve longevity. **Autoclavable.**



14 cm  
Punch Ø: 1 mm

No. 24916-01

14 cm  
Punch Ø: 2 mm

No. 24916-02



Ear Punch

Designed to ensure a fast and clean punch, this ear punch is lightweight and fits comfortably in the palm of your hand.

Autoclavable.



11.5 cm

Surgical Stainless Steel (Inox) and anodized aluminum  
Punch Ø: 2 mm

No. 24214-02

Finger Loop Ear Punch

This ear punch provides stability and control for researchers using the numbering system. The 1 mm ear punch offers greater numbering variations and/or patterns.



10.5 cm  
Punch Ø: 2 mm

No. 24212-02

Punch Ø: 1 mm

No. 24212-01



Color can stain skin and clothing. The use of gloves and lab coats is recommended. These colors will not work on black fur.

Marking Pen

The Marking Pen was developed for easy, long lasting identification of laboratory animals. The markers contain no harmful chemicals and instead nontoxic pigment approved by the Japanese Ministry of Health for use in food, drugs and cosmetics. It is intended for use on the fur rather than the skin and will last for 6-12 weeks.



Green



Fine Tip  
4.5 x 7.5 mm  
10 ml

No. 24202-01

Blue



Fine Tip  
4.5 x 7.5 mm  
10 ml

No. 24202-02

Yellow



Fine Tip  
4.5 x 7.5 mm  
10 ml

No. 24202-03

Red



Fine Tip  
4.5 x 7.5 mm  
10 ml

No. 24202-04

Orange



Fine Tip  
4.5 x 7.5 mm  
10 ml

No. 24202-05

Black



Fine Tip  
4.5 x 7.5 mm  
10 ml

No. 24202-06



Green



Standard Tip  
15 x 10 x 10 mm  
15 ml

No. 24202-11

Blue



Standard Tip  
15 x 10 x 10 mm  
15 ml

No. 24202-12

Yellow



Standard Tip  
15 x 10 x 10 mm  
15 ml

No. 24202-13

Red



Standard Tip  
15 x 10 x 10 mm  
15 ml

No. 24202-14

Orange



Standard Tip  
15 x 10 x 10 mm  
15 ml

No. 24202-15

Black



Standard Tip  
15 x 10 x 10 mm  
15 ml

No. 24202-16

Skin Marker

This marker features a versatile tip for precise fine (0.2 mm) line marking, or when held at an angle, a broad (2 mm) line marking. The marker's violet ink is nontoxic, non-tattooing and surgical prep-resistant. Markings can be removed from the skin with isopropyl alcohol. A six-inch ruler calibrated in both centimeters and inches is included.

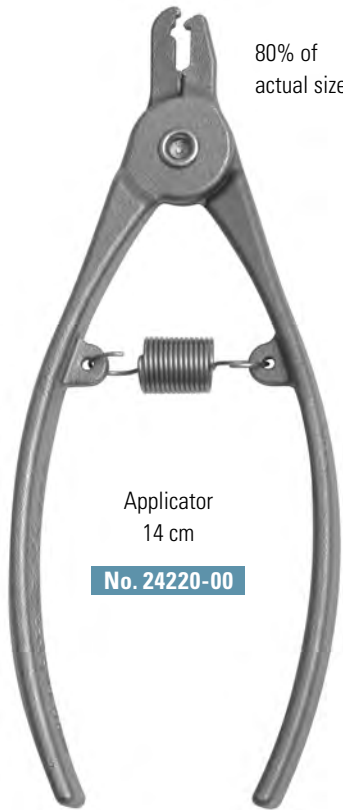


No. 18000-30

50% of actual size

Self Piercing Ear Tags

Ideal for use in small animals such as mice and rats, these ear tags come numbered from 1-100 or 1-500. Silver colored tags with black numbers provide high visibility making them easy to read. Once applied, tags seal and cannot be removed, providing an easy to use, permanent identification method. These ear tags are safe for use in salt water.



80% of actual size



No. 24220-00

Custom alphanumeric sequences and numbers above 1000 are available by special order.

Customized ear tags available in packages of 100 or 500. The following markings are possible: 1 to 6 numbers only or 1 to 6 letters and numbers.

For special order, use item No. 70000-10 and indicate sequence. Please allow 4 to 5 weeks for delivery.



Alloy: Monel  
0.8 cm  
No. 1-100

No. 24221-10



Alloy: Monel  
0.8 cm  
No. 1-500

No. 24221-50

Picture similar

Alloy: Monel  
0.8 cm  
No. 501-1000

No. 24221-90

Fine Forceps Repair Kit

Realign and repair fine forceps with this convenient kit. Bent forceps tips can be re-straightened with the chain nose pliers. The sharpening stone has two grooves, 1.6 mm and 0.8 mm, to assist in resharpening the forceps tips. O-rings clamp the forceps shut to ensure that both shanks are equally aligned and sharpened. Instrument oil assists in producing a smooth sharp edge. Detailed instructions are included.



Kit includes:

- 1 Sharpening stone for fine forceps (No. 29008-22)
- 10 O-rings (11200-00)
- 1 Oil bottle, 50 ml (No. 29055-00)
- 1 Chain nose pliers

No. 29000-00



O-Rings for Forceps

These rubber O-rings fit our forceps and keep them closed with variable degrees of pressure on the tips.

Pkg. of 10

No. 11200-00



Oil bottle or spray

Physiologically inert oil for lubricating surgical instruments, box locks, ratchets and any overlapping joints.

50 ml bottle

No. 29055-00



Sharpening Stone for Fine Forceps

This natural Arkansas stone assists in resharpening the tips of fine forceps. The stone has two grooves, 0.8 mm and 1.6 mm and comes in a cedar box with ten O-rings.

12.5 x 6.5 x 3 cm

No. 29008-22



Instrument Marking Tape - 290 cm

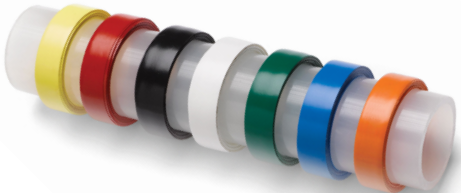
Organize instruments quickly and easily with this economical, non-toxic, pressure sensitive tape. Color is unaffected by boiling, cold sterilization or autoclaving. 8 colors available. **Autoclavable.**



Color	Roll length (cm)	Tape width (cm)	Material	Item
Green	290	0.6	Vinyl	No. 29071-01
Blue	290	0.6	Vinyl	No. 29071-02
Yellow	290	0.6	Vinyl	No. 29071-03
Red	290	0.6	Vinyl	No. 29071-04
White	290	0.6	Vinyl	No. 29071-05
Black	290	0.6	Vinyl	No. 29071-06
Orange	290	0.6	Vinyl	No. 29071-08
Purple	290	0.6	Vinyl	No. 29071-09

Instrument Marking Tape  
7 assorted colors

Organize instruments quickly and easily with this economical, non-toxic, pressure sensitive tape. Color is unaffected by boiling, cold sterilization or autoclaving. Includes 7 assorted color rolls: Yellow, Red, Black, White, Green, Blue and Orange. **Autoclavable.**



	107	0.6	Vinyl	No. 29080-02
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Instrument Marking Tape - 510 cm

Organize instruments quickly and easily with this economical, non-toxic, pressure sensitive tape. Color is unaffected by boiling, cold sterilization or autoclaving. 9 colors available. **Autoclavable.**



Color	Roll length (cm)	Tape width (cm)	Material	Item
Green	510	0.6	Vinyl	No. 29070-01
Blue	510	0.6	Vinyl	No. 29070-02
Yellow	510	0.6	Vinyl	No. 29070-03
Red	510	0.6	Vinyl	No. 29070-04
White	510	0.6	Vinyl	No. 29070-05
Black	510	0.6	Vinyl	No. 29070-06
Brown	510	0.6	Vinyl	No. 29070-07
Orange	510	0.6	Vinyl	No. 29070-08
Purple	510	0.6	Vinyl	No. 29070-09

Self Sealing Sterilization Pouches

Preformed pouches with self adhering tape are blue tinted on one side for visualization of contents and paper-backed on the other side. Pouches will work with either steam autoclave or ethylene oxide sterilization.

- Material properties:
- Protects instruments during sterilization.
  - Provides sterile storage until use.
  - Write on pouches for easier identification during sterilization.



Outer: 9 x 17 cm | Inner: 7 x 11.5 cm  
For instruments up to 11 cm long

Pkg. of 100 pouches

No. 28000-06

Outer: 13.5 x 28 cm| Inner: 11.5 x 22.5 cm  
For instruments up to 20 cm long

Pkg. of 100 pouches

No. 28000-11

Outer: 19 x 36 cm | Inner: 17 x 30 cm  
For instruments up to 28 cm long

Pkg. of 100 pouches

No. 28000-14

Hot Bead Sterilizer

The sterilizer provides a safe, effective and convenient method for sterilizing your surgical instruments prior to and during surgery or tissue culture. Without using potentially dangerous gases flames or chemicals, you can ensure that your instruments will be free of pathogens and microbial contaminants.

The beads take 15–20 minutes to reach 240 °C to 270 °C (464 °F to 518 °F), then the sterilizer is ready for use. The temperature is thermostatically maintained and the unit can be left on all day. Instruments require approximately 20 seconds of contact with the beads for complete sterilization. The sterilizer is safe to use even in laminar flow hoods.

Sterilization test results conducted by the Pasteur Institute in Lille, France, are available upon request. Available in 110 V and 220 V. CE Certified and UL Approved.

Sterilizer includes:

- Sterilizer unit
- 1 Bag of glass beads
- 1 Dust cover for well
- 1 Small heat-tempered glass dish for small objects



250 shown.  
Instruments not included.

60% of actual size

Micro Bead Sterilizer

Micro Bead Sterilizer is ideal for the sterilization of small and large research tools (forceps, scissors, etc.). When the chamber is filled with the included glass beads, high temperatures (up to 300 °C / 572 °F) can be used to eliminate the presence of bacteria, spores and other micro-organisms.



Small sterilizer shown.  
Instruments not included.

60% of actual size

Small Sterilizer 115 V

Well Ø: 4 cm  
Well depth: 8 cm  
Well volume: 100 ml  
Total unit size: 14.5 x 15.5 x 15.5 cm

No. 18090-45

Small Sterilizer 220 V

Well Ø: 4 cm  
Well depth: 8 cm  
Well volume: 100 ml  
Total unit size: 14.5 x 15.5 x 15.5 cm

No. 18090-46

Replacement glass beads for small sterilizer

Weight: 125 g

No. 18000-47

Tall Sterilizer 220 V

Well Ø: 4 cm  
Well depth: 14 cm  
Well volume: 175 ml  
Total unit size: 14.5 x 15.5 x 21.5 cm

No. 18090-51

Tall Sterilizer 115 V

Well Ø: 4 cm  
Well depth: 14 cm  
Well volume: 175 ml  
Total unit size: 14.5 x 15.5 x 21.5 cm

No. 18090-50

Replacement glass beads for tall sterilizer

Weight: 256 g

No. 18000-52

250 Sterilizer

Well Ø: 4 cm  
Well depth: 8 cm  
Well volume: 100 ml  
Total unit size: 14.5 x 12.5 x 13.5

No. 18000-45

350 Sterilizer

Well Ø: 4 cm  
Well depth: 14 cm  
Well volume: 175 ml  
Total unit size: 20.5 x 12.5 x 13.5

No. 18000-50

Replacement glass beads for 18000-45

Weight: 150 g

No. 18000-46

Replacement glass beads for 18000-50

Weight: 300 g

No. 18000-51

Autoclave Tape

Tape will permanently indicate diagonal stripes after exposure to steam autoclave temperature between 121 °C and 130 °C during a 40 - 60 minute time period. Use with sterilization pouches, sterilization wraps and sterilization cases.

The tape can be used in:

- Gravity sterilizers operating at 121 °C (+3 °C) for 30 minutes or
- Pre-vacuum sterilizers operating at 132 °C (+3 °C) for 4 minutes and 135 °C (+3 °C) for 3 minutes
- Shelf life/durability is 36 months



1,90 cm x 55 m

No. 28001-02

Silicone Mat

High quality, extra soft mat for safe and secure placement of delicate instruments. This mat can easily be cut along the premarked grooves to fit in various sized instrument cases. **Autoclavable.**



30 x 20 cm

No. 20325-00

Magnetic Sterilization Mat

Used during sterilization and for safe anti-slip placement around surgical settings. **Autoclavable.**



Instruments not included.

30 x 20 cm

No. 20350-00

Disposable Sterilization Wraps

These biodegradable cellulose fiber wraps are resistant to tears and conform easily to maintain a breathable yet impervious barrier to airborne bacteria, saline, blood and water. Wrapping your instrument case securely will ensure the sterility of your instruments until ready for use. Available in two sizes.



Cases not included.

38 x 38 cm  
Pkg. of 25 wraps

No. 28015-15

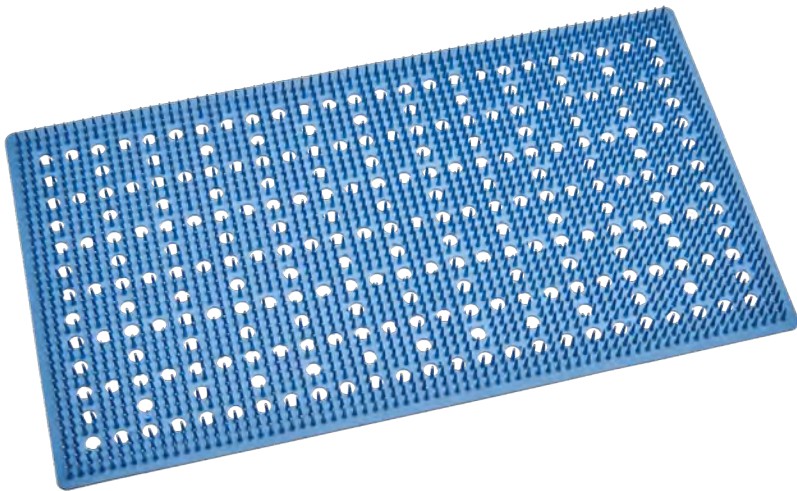


51 x 51 cm  
Pkg. of 25 wraps

No. 28020-20

Silicone Mat

Large, economical silicone mat. **Autoclavable.**



46 x 25 cm

No. 20325-10



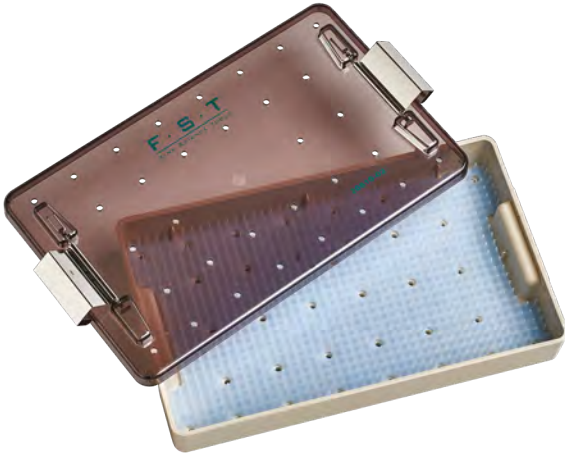
Plastic Sterilization Container

This plastic sterilization container includes a silicone mat for safe placement of instruments. Perforated top is clear for visual identification of instruments. **Suitable for autoclave or ethylene oxide sterilization.**



19 x 10 x 2 cm

No. 20810-01



27 x 16 x 4 cm

No. 20810-02

Plastic Sterilization Container

This sterilization container is made from Ultem® polymer to ensure strength and long lasting durability. The transparent perforated lid provides easy identification of your surgical instruments. Silicone mat is included for a safe and secure hold. Trays are also stackable for convenience. **Suitable for autoclave or ethylene oxide sterilization.**



19 x 7 x 2 cm  
Single tier

No. 20840-01



17 x 10 x 2 cm  
Single tier

No. 20840-02

Stainless Steel Sterilization Container

This container will assist in the sterilization and storage of your fine surgical instruments. It comes with a custom fit silicone mat to keep instruments in place while the sterilizing process and storage. The textile filters are necessary for keeping instruments sterile while they remain in the container.

**Suitable for autoclave or ethylene oxide sterilization.**



30 x 14 x 4 cm

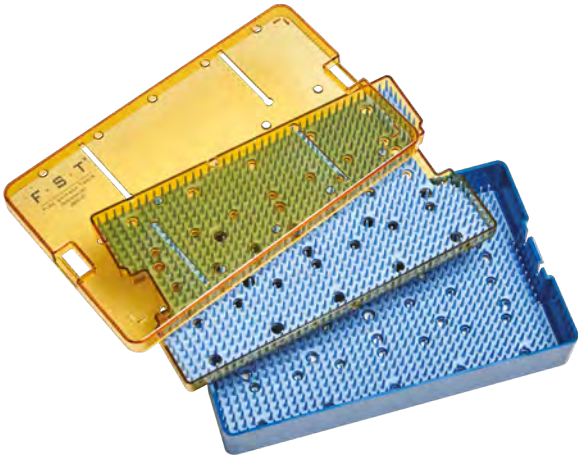
No. 20850-00

5 Long-term textile filters

No. 20850-10

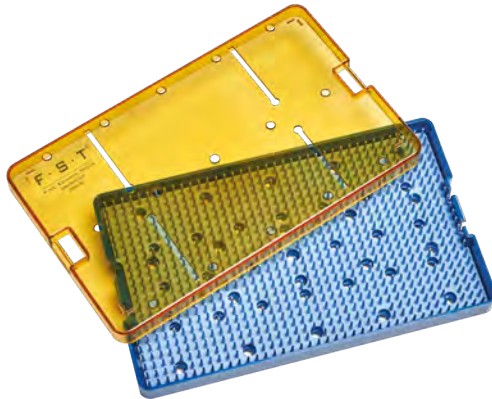
1 Long-term textile filter

No. 20850-11



25 x 15 x 4 cm  
Double tier

No. 20842-03



25 x 15 x 2 cm  
Single tier

No. 20840-03

Colored Aluminum Instrument Cases

This instrument case comes with a spiked silicone mat for secure storage of surgical instruments. Five colors available but may vary due to lot to lot variations.

The case and silicone insert are autoclavable but should not be used for sterilization of surgical instruments.



Blue

No. 20330-00



Green

No. 20330-01



Red

No. 20330-02



Yellow

No. 20330-03



Silver

No. 20330-04

Moria Instrument Case

Comes with a silicone mat for safe placement of instruments. **Case and silicone insert are autoclavable but should not be used for sterilizing surgical instruments.**

Moria



Silver  
18 x 9 x 3 cm

No. 20311-21

Colored Plastic Instrument Cases

This plastic case is compact, safe, secure, and slotted for placement of individual surgical instruments, aiding in the prevention of tip damage. Seven colors available. **Case is autoclavable but should not be used for sterilizing surgical instruments.**



Instruments not included.

Blue



17 x 8 x 2 cm

No. 20830-00

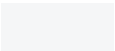
Green



17 x 8 x 2 cm

No. 20830-01

Clear



17 x 8 x 2 cm

No. 20830-02

Yellow



17 x 8 x 2 cm

No. 20830-03

Pink



17 x 8 x 2 cm

No. 20830-04

Orange



17 x 8 x 2 cm

No. 20830-05

Purple



17 x 8 x 2 cm

No. 20830-06



Roll Up Travel Case

Vinyl dissection roll up case with Velcro strap to hold the case closed. Holds up to ten tools, one ruler holder, and one Velcro sealed pouch. Instruments not included.

36 x 23 cm (unfolded)  
Black  
Vinyl

No. 20831-10



Instrument Tip Protectors

These tip protectors are a convenient, color-coded way to protect surgical instrument tips and edges. They provide exceptional protection and are vented to prevent rusting from condensation. Instrument tip protectors are recommended during handling, storage, and sterilization. **Autoclavable.**



1.6 x 19.1 mm  
Pkg. of 25  
Material: Platisol  
**No. 29060-01**

2 x 19 mm  
Pkg. of 25  
Material: Platisol  
**No. 29060-02**

2.8 x 19.1 mm  
Pkg. of 25  
Material: Platisol  
**No. 29060-03**

3.2 x 25.4 mm  
Pkg. of 25  
Material: Platisol  
**No. 29060-04**

4.8 x 25.4 mm  
Pkg. of 25  
Material: Platisol  
**No. 29060-05**

9.5 x 25.4 mm  
Pkg. of 25  
Material: Platisol  
**No. 29060-06**

Assorted pack, five of each size  
Pkg. of 30  
Material: Platisol  
**No. 29060-00**

Double Tip Protectors

These vented tip protectors are designed to hold hemostats and rongeurs firmly while allowing the jaws, box hinge and tips to stay open for through sterilization. **Autoclavable.**

12.7 x 2 mm  
Pkg. of 10  
Material: Platisol  
**No. 29066-01**

9 x 25.5 mm  
Pkg. of 10  
Material: Platisol  
**No. 29066-02**

15 x 25 mm  
Pkg. of 10  
Material: Platisol  
**No. 29066-03**

25 x 26 mm  
Pkg. of 10  
Material: Platisol  
**No. 29066-04**

Assorted pack, three of each size  
Pkg. of 12  
Material: Platisol  
**No. 29066-00**

Burrs Stainless Steel

Length: 44 mm  
Shaft Ø: 2.3 mm  
Pkg. of 10 burrs

Tip Ø (mm)	Item
0.7 *	No. 19008-07
0.9 **	No. 19008-09
1.4	No. 19008-14

\* Use this size for screws No. 19010-10 (page 68).  
\*\* Use this size for screws No. 19010-00 (page 68).



Burrs Carbon Steel

Length: 44 mm  
Shaft Ø: 2.3 mm  
Pkg. of 10 burrs



Tip Ø (mm)	Item
0.5	No. 19007-05
0.7 *	No. 19007-07
0.9 **	No. 19007-09
1.4	No. 19007-14
2.1	No. 19007-21
2.9	No. 19007-29

\* Use this size for screws No. 19010-10 (page 68).  
\*\* Use this size for screws No. 19010-00 (page 68).



Burrs Tungsten Carbide

Length: 44 mm  
Shaft Ø: 2.3 mm  
Pkg. of 5 burrs



Tip Ø (mm)	Item
0.5	No. 19009-05
0.7 *	No. 19009-07
0.9 **	No. 19009-09

\* Use this size for screws No. 19010-10 (page 68).  
\*\* Use this size for screws No. 19010-00 (page 68).



Trephines Stainless Steel

Side opening for clearing of material.

Length: 44 mm  
Shaft Ø: 2.3 mm  
Sold individually

Tip Outer Ø (mm)	Item
1.8	No. 18004-18
2.3	No. 18004-23
2.7	No. 18004-27
5	No. 18004-50



Circular Saw

For cutting bone and other hard substances. Attaches to mandrel (No. 18000-18), on the right side.



Ø: 16 mm  
Thickness: 0.1 mm  
Pkg. of 10 saws

No. 18000-20

Mandrel

Screw allows attachment of discs and circular saws for use with high speed drills.



Length: 45 mm  
Shaft Ø: 2.3 mm

No. 18000-18

High Temperature Cautery Kit

This high temperature cauterizer is a great alternative to disposable cautery units. Temperature at tips is approximately 1000 °C (1832 °F). Replacement cautery tips are available.

 MOST POPULAR

 NOT AUTOCLAVABLE



Plastic body  
Surgical Stainless Steel tips: 0.2 mm Ø  
Operation temperature: 1000 °C (1832 °F)  
Total weight: 70 g  
Length: 16 cm (without tip)

Cautery Kit

No. 18010-00

- Cautery kit includes:
- 1 Cautery handle
  - 2 AA batteries
  - 2 Standard tips
  - 2 Fine tips
  - 1 Storage case



Replacement tips  
**Single use**  
Straight / Standard  
Sterile: Yes

Box of 10 tips

No. 18010-01



Replacement tips  
**Single use**  
Straight / Fine  
Sterile: Yes

Box of 10 tips

No. 18010-02

Low Temperature Cautery Kit

This low temperature cautery kit is a great alternative to disposable cautery units. Temperature at the tips is approximately 649 °C (1200 °F). Replacement cautery tips are available.

 NOT AUTOCLAVABLE



Plastic body  
Surgical Stainless Steel tips: 0.2 mm Ø  
Operation temperature: 649 °C (1200 °F)  
Total weight: 60 g  
Length: 12 cm (without tip)

Cautery Kit

No. 18019-00

- Cautery kit includes:
- 1 Cautery handle
  - 1 AA battery
  - 2 Fine tips
  - 2 Elongated fine tips
  - 1 Storage case



Replacement tips  
**Single use**  
Straight / Fine  
Sterile: Yes

Box of 10 tips

No. 18019-01



Replacement tips  
**Single use**  
Elongated Straight / Fine  
Sterile: Yes

Box of 10 tips

No. 18019-02

Small Vessel Cauterizer Kit

This small hand-held unit keeps bleeding to a minimum and therefore provides a surgical field clear of clamps and hemostats. The cauterizer should be activated momentarily so the delicate tips do not burn out. Temperature at tips is approximately 1000 °C (1832 °F). Replacement cautery tips are available. **Autoclavable.**



Heavy gauge Stainless Steel body  
Platinum-iridium tips: 0.3 mm Ø  
Total weight: 100 g  
Length: 13.5 cm (without tip)

Cautery Kit

No. 18000-00

- Cautery kit includes:
- 1 Cautery handle
  - 2 AA Batteries
  - 1 Straight fine tip
  - 1 Angled fine tip
  - 1 Storage case



Remove batteries before autoclaving.



Replacement tips  
**Reusable**  
Straight / Fine

No. 18000-01



Replacement tips  
**Reusable**  
Angled / Fine

No. 18000-02



Replacement tips  
**Reusable**  
Straight / Fine

No. 18000-03



Replacement tips  
**Reusable**  
Straight knob

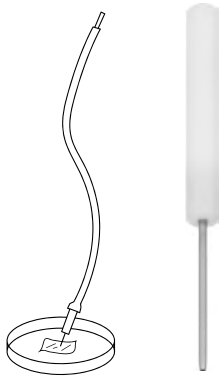
No. 18000-04

SURGICAL ACCESSORIES

SURGICAL ACCESSORIES

Neuro Punches

N.I.H. style neuro punches for punch removal of frozen brain microregions.

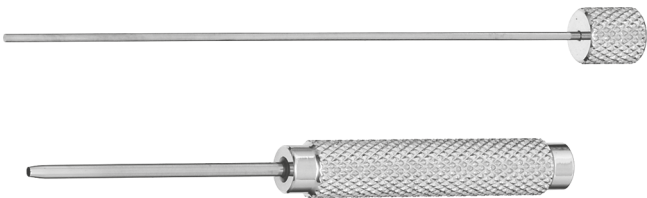


ID (mm)	OD (mm)	Gauge	Length (cm)	Item
0.31	0.61	24	4.2	No. 18036-24
0.41	0.7	22	4.5	No. 18036-22
0.69	1	19	4.5	No. 18036-19

Sample Corers

For quantitative analysis. Comes with plunger.

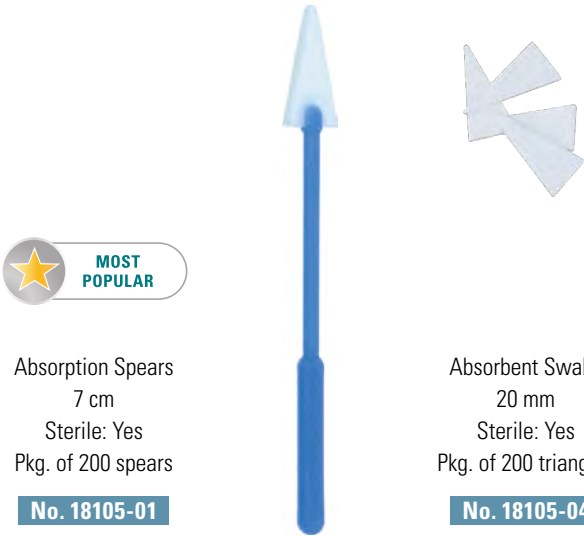
8.5 cm



ID (mm)	OD (mm)	Gauge	Item
0.35	0.8	21	No. 18035-35
0.5	1	19	No. 18035-50
0.8	1.45	17	No. 18035-80
1	1.8	15	No. 18035-01
2	3	11	No. 18035-02
3	4	8	No. 18035-03
5	6	4	No. 18035-05

Absorbent Swabs Mounted

These synthetic surgical sponges absorb fluids twice as fast as the best cotton sponges and have three times their fluid-holding capacity. They are made from strong, soft, lint-free biocompatible-proven material that is nonirritating to delicate tissue and leaves no fibrous residue that might cause wound contamination. The Absorption Spears are sterilized by radiation.



Absorption Spears  
7 cm  
Sterile: Yes  
Pkg. of 200 spears  
No. 18105-01

Absorbent Swabs  
20 mm  
Sterile: Yes  
Pkg. of 200 triangles  
No. 18105-04

Micro Cleaning Brush



7 cm  
Nylon  
Bag of 25  
No. 18196-10

Miniature File Set

Comes with eight different file profiles in a vinyl pouch.



10 cm  
Carbon Steel  
No. 30076-14

Sharpening Stones

Natural Arkansas oil stones feature unequalled fineness, hardness and structural density. When used with mineral oil, they will produce a sharper cutting edge.



6 mm x 9 cm  
Square stone  
No. 29008-01



6 mm x 9 cm  
Triangular stone  
No. 29008-12

4-in-1 Screwdriver

With four hardened, interchangeable blades stored in handle: 1.5, 2, 2.5, and 3 mm.



Handle 9.5 cm, with  
attachment 11.5 cm  
Nickel handle  
No. 30051-10

Ceramic Blade Cutter

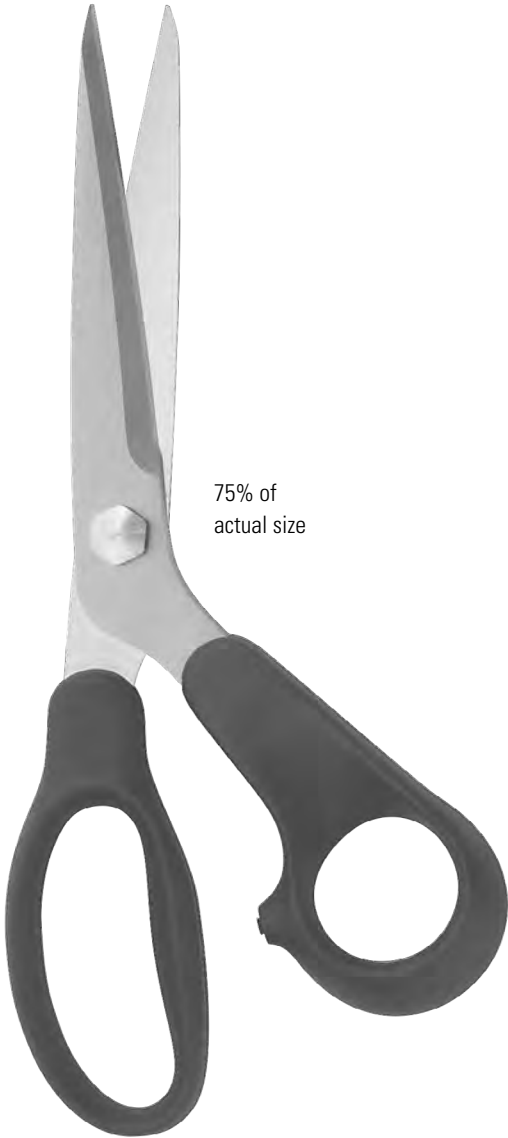
Ceramic edge stays sharp 100 times longer than a steel edge. Rust and corrosion free. No trace metal contamination. **Autoclavable.**



Plastic handle with ceramic blade	Replacement blade
Straight	Straight
13 cm Cutting Edge: 58 mm	Cutting Edge: 58 mm
No. 10025-70	No. 10025-71

Utility Scissors

These scissors are extremely hard (54 on the Rockwell scale). Useful for cutting tin or aluminum sheets, bone, plastics, etc. The strong, 3 mm thick blades are magnetic. The plastic handles are anatomically shaped.



75% of actual size

21 cm  
Stainless Steel (Inox)  
with plastic handle

No. 37500-00

Universal Scissors

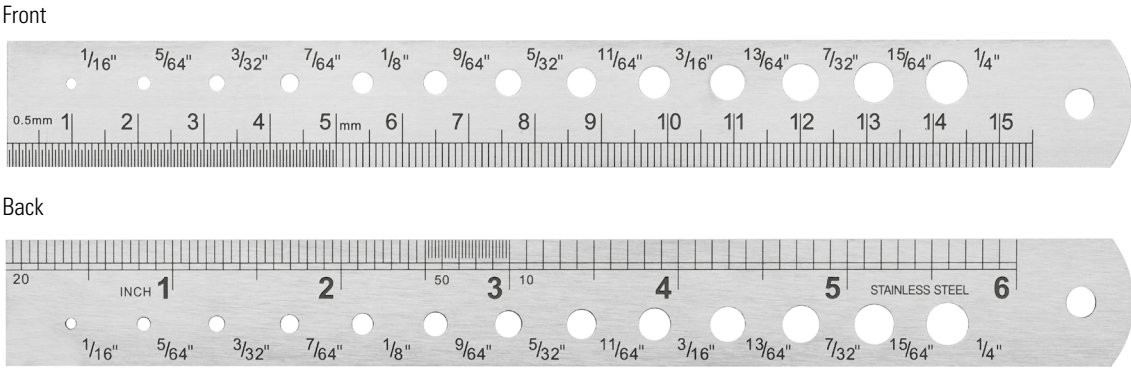
The scissor blades are made of high quality Stainless Steel and guarantee a perfect cut. Handles are made of glass fiber reinforced polyamide.



13 cm  
Stainless Steel (Inox)  
with plastic handle

No. 37500-05

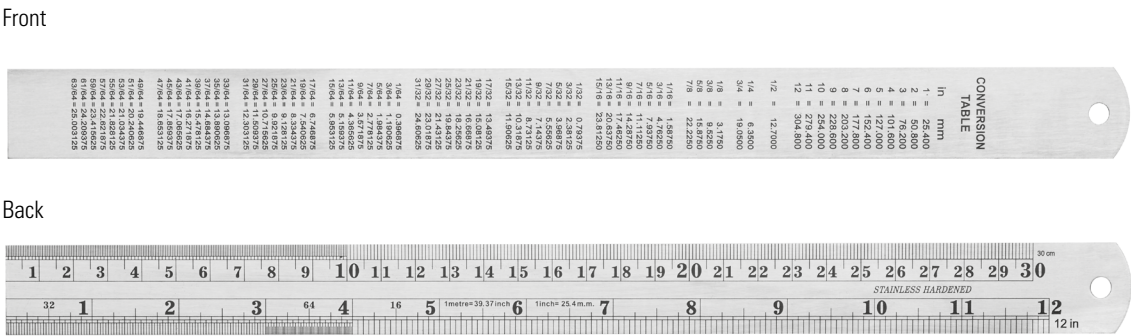
Ruler with Gauge Measurements



Surgical Stainless Steel (Inox)  
15.5 cm / 6 inch

No. 30085-15

Rulter with Metric Conversion Table



Surgical Stainless Steel (Inox)  
30 cm / 12 inch

No. 30085-30

Ruler Label

Used for stable measurements in all surgical platforms.



6 cm  
Pkg. of 25 labels

No. 29027-00



Plastic Vernier Caliper

Tough polymer is unbreakable under normal conditions. Measures inside, outside, step and depth, metric and inch to 0.1 mm or 1/64". Maximum measurement: 153 mm.



Plastic  
21 cm

No. 30087-20

Digital Electronic Caliper

Wide screen LED display with the ability to measure in millimeters, inches and fractions. Measures inside, outside, step and depth. Battery, spare battery and plastic storage case included.



Surgical Stainless Steel (Inox)  
23.5 cm

No. 30087-00

Castroviejo Surgical Caliper

Used for precise measurement during surgery.



0-20 mm with 0.5 mm divisions  
Tip Ø: 0.5 mm

8.5 cm

No. 18000-35

Electronic Clock/Triple Timer

Three activities can be timed up or down simultaneously or individually. Time can be displayed either in 12 or 24 hours and features a memory function. Maximum countdown time is 19 hours, 59 minutes, 59 seconds. Minimum time interval is 1 second. The timer housing includes a powerful magnet for mounting.



LCD display: 4.5 x 4.5 cm  
7 x 8.5 x 1.5 cm  
AA battery (not included)

No. 27000-01

Gold Wire Contacts

Matching pin and socket. Contacts are crimp terminated, but also can be used for solder connections.

Total length: 16 mm  
Ø:1.2 mm  
Opening for wire: 0.63 mm

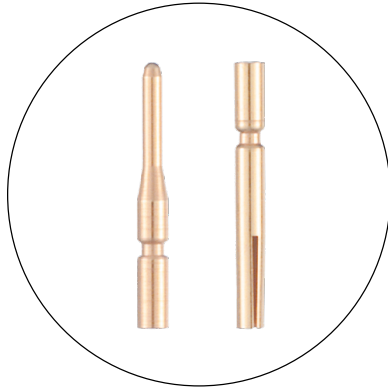
Pkg. of 50 Male contacts

No. 19003-00

Pkg. of 50 Female contacts

No. 19003-01

Enlarged 225%



Loupe with Micrometer and LED

High quality loupe features a removable micrometer and ultra-bright LED lights surrounding the circumference for a defined image and clear contrast.



Magnification: 10x  
Field of view: 30 mm  
Working distance: 10 mm (without scale)  
Ultrabright LED  
38 x 38 x 40 mm

No. 29026-10

Stage Micrometer



76 x 26 mm  
1 mm with 100 divisions (0.01 mm)

No. 29025-02

Interchangeable Magnifier Spectacles with LED

Economical and fully interchangeable headband magnifier with LED light.

Includes:

- Multiple Lens Magnifications (1.0x, 1.5x, 2.0x, 2.5x, 3.5x)
- LED Light Source
- Tilting Functionality
- Cushioned Nose Pads
- Adjustable Headband
- Interchangeable Lens Frames
- Requires 3 AAA Batteries (Batteries not included)



Can be used with or without the adjustable head strap (included).

Headband Magnifiers

Precision ground and polished optical glass lenses. The padded headband is lightweight and fully adjustable. Can be worn with spectacles.



Magnification: 2.5x  
Working distance: 20 cm (8 inch)

No. 28030-02

Magnification: 2.75x  
Working distance: 15 cm (6 inch)

No. 28030-03

Magnification: 3.5x  
Working distance: 10 cm (4 inch)

No. 28030-04



Magnification: 1x, 1.5x, 2x, 2.5x and 3.5x  
Field of view: Variable  
Working distance: Variable

No. 28080-10

Galilean Flip-up

These loupes are lightweight and easy to use. Made from the finest optical coated lenses which deliver excellent clarity and high resolution. The loupes are mounted onto a strong yet flexible wraparound safety frame with a headband for stability and comfort. Ability to flip loupes up for use as safety glasses. Comes with mini screwdriver for fine adjustments, micro cloth and storage case.



Magnification: 3x  
Working distance: 40 cm (16 inch)  
Weight: 262 g

No. 28050-30

Magnification: 3.5x  
Working distance: 30 cm (12 inch)  
Weight: 77 g

No. 28050-35

Eschenbach maxDETAIL

These spectacles are portable, lightweight, and easily adjustable. Designed with frosted objective lens housing which eliminates distracting reflections. Bendable ear pieces for a secure, comfortable fit. Protective case is included.



Magnification: 2x  
Field of view: 110 mm (4 inch)  
Working distance: 40 cm (16 inch)  
Weight: 114 g

No. 28030-20

maxDETAIL Spectacles shown with Eschenbach Clip-On LED Light (sold separately).

Eschenbach ridoMED

These magnifier spectacles allow full adjustments on almost all parts. Headband keeps spectacles steady and in place. Leather case and Headband included.



Magnification: 2.5x  
Working distance: 35 cm (14 inch)  
Weight: 97 g  
Plastic frame reinforced with fiberglass

No. 28040-30

Eschenbach Clip-On LED Light

A compact and lightweight light source with two high-performance SMD LEDs and a lens that concentrates the light producing a more powerful, bright and homogenous field of view. Light can be set high or low. Compatible with the maxDETAIL Spectacles and Headband Magnifiers. Comes with 3 AA batteries, belt clip and storage case.



Weight: 335 g

No. 28030-25



Eschenbach varioLEDflex

The varioLEDflex ensures ease and precision by its smooth flexible neck and tiltable magnifying lens. This magnifier’s innovative features provide a spacious working platform suitable for any application. Mounting clamp provides uncompromised workspace due to its sturdy, slim design. The magnification lens is illuminated with shadow-free full or half ring optimum bright LEDs.



Magnification: 2.5x  
Diopter: 6D  
Lens size: 76 mm  
Lens shape: Aspheric  
Working distance: Variable  
Lens material: PXM® lightweight lens with patented Ceratec®scratch resistant coating  
Illumination: SMD LED  
Power source: 120 V & 230 V

No. 28015-25

Lens Cleaning Kit

This convenient kit contains everything you need to clean lens surfaces safely. Perfect for microscopes, camera lenses, binoculars, telescopes, graphic art optics and all other fragile lenses. Storage case included.

- Kit includes:
- 1 Bottle of lens cleaner (30 ml)
  - 1 Ultra soft duster brush
  - 1 Cleaning cloth (20 x 20 cm)
  - 3 Books of lens paper (25 sheets each)



No. 29000-10

Eschenbach Scribolux

This magnifier provides an illuminated platform suitable for any working condition. The open design allows for a spacious working platform. Supplied in a microfiber pouch for protecting and cleaning the lens.



Magnification: 2.8x  
Diopter: 7/11D  
Lens size: 100 x 75 mm  
Lens shape: Aspheric  
Working distance: 7.5 cm (3 inch)  
Lens material: PXM® lightweight lens with patented Ceratec®scratch resistant coating  
Illumination: SMD LED  
Power source: 6 V (4 AA-Batteries included)

No. 28020-28

Lens Paper

This premium grade optical lens tissue is extremely soft and safe for any glass or plastic optical lens surface.



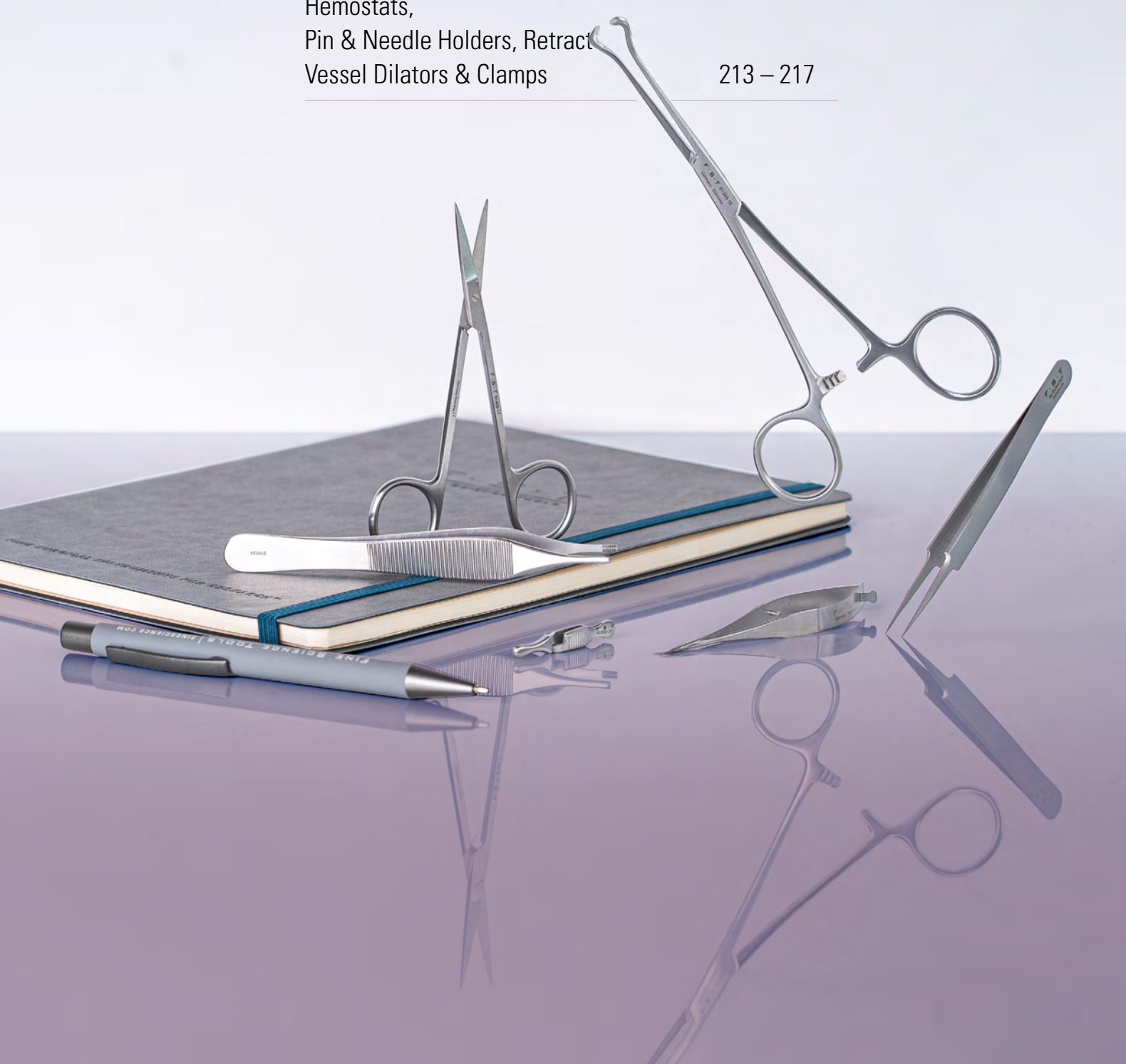
15 x 10 cm  
Book of 50 sheets

No. 29015-50



STUDENT QUALITY INSTRUMENTS

Scissors	200 – 205
Scalpel Handles	206
Forceps	207 – 212
Hemostats, Pin & Needle Holders, Retractors, Vessel Dilators & Clamps	213 – 217



FST® STUDENT LINE



- FEATURES:
- Economy
  - Quantity discounts
  - Quality
  - Less hand finishing
  - Less expensive alloys

One of the hallmarks of FST has always been to accurately assess the needs of our customers. We gather information not only from the lab, but from conferences, journals and researchers. Whether it is designing new tools or finding new applications for existing instruments, we believe our best information comes directly from you.

Our customers wanted reduced costs and quantity discounts without sacrificing the precision and quality inherent in German instruments. To meet their needs, we have developed a full line of “student” instruments. They were created for use in the classroom where students are learning proper instrument care.

Unlike our competitors, the quality of these instruments does not drop dramatically with the price. Our student line uses quality Surgical Stainless Steel and maintains the precision you expect from FST. In addition they carry our unconditional satisfaction guarantee while being offered at a significantly reduced price.

Not intended as a substitute for our highest quality instruments, the student line may require extra care as the alloys used are more susceptible to corrosion. Visit our website at [finescience.com](https://www.finescience.com) for more information.

DISCOUNT %

Quantity discount for student instruments:  
5 – 9 = 5%  
10+ = 10%  
Per item, selection cannot be assorted for discount.

Vannas

Ideal for introductory courses in microdissec-  
tion. The manufacturer, material and general  
pattern are the same as our No. 15003-08 but  
with much of the costly hand finishing omitted.



Iris








Sanvenero



Standard Surgical



Length (cm)	Cutting edge (mm)			
		Straight Sharp / Sharp	Straight Sharp / Blunt	Straight Blunt / Blunt
10.5	20	No. 91402-10	No. 91401-10	No. 91400-10
12	26	No. 91402-12	No. 91401-12	No. 91400-12
13	28	No. 91402-13	No. 91401-13	
14.5	30	No. 91402-14	No. 91401-14	No. 91400-14

Length (cm)	Cutting edge (mm)		
		Curved Sharp / Sharp	Curved Sharp / Blunt
12	26	No. 91405-11	No. 91404-12
13	28	No. 91405-13	No. 91404-13
14.5	30	No. 91405-14	No. 91404-14

% DISCOUNT

Quantity discount  
for student  
instruments:  
5 – 9 = 5%  
10+ = 10%  
Per item, selection  
cannot be assorted  
for discount.



Straight  
Sharp/Sharp

9 cm  
Cutting edge: 5 mm  
Tip Ø: 0.35 mm

No. 91500-09



Curved  
Sharp/Sharp

9 cm  
Cutting edge: 5 mm  
Tip Ø: 0.35 mm

No. 91501-09



Straight  
Sharp/Sharp

11.5 cm  
Cutting edge: 16 mm

No. 91460-11



Curved  
Sharp/Sharp

11.5 cm  
Cutting edge: 16 mm

No. 91461-11



Straight  
Sharp/Sharp

14.5 cm  
Cutting edge: 22 mm

No. 91408-14

DISCOUNT %

Quantity discount  
for student  
instruments:  
5 – 9 = 5%  
10+ = 10%  
Per item, selection  
cannot be assorted  
for discount.

Wagner

Spencer Ligature

Lister

Mayo

Longer blunt blade prevents damaging tissue underneath skin without losing the cutting line.



80% of actual size

% DISCOUNT

Quantity discount for student instruments:  
5 – 9 = 5%  
10 + = 10%  
Per item, selection cannot be assorted for discount.



Straight Sharp/Sharp

12 cm  
Cutting edge: 20 mm

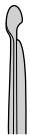
No. 91468-12



Straight Blunt/Blunt

9 cm  
Cutting edge: 16 mm

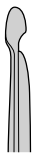
No. 91476-09



Angled to side Blunt/Blunt

14 cm  
Cutting edge: 26 mm

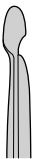
No. 91413-14



Angled to side Blunt/Blunt

18 cm  
Cutting edge: 30 mm

No. 91413-18



Angled to side Blunt/Blunt

20 cm  
Cutting edge: 34 mm

No. 91413-20



Curved Sharp/Blunt

14.5 cm  
Cutting edge: 28 mm

No. 91409-15



Straight Blunt/Blunt

17 cm  
Cutting edge: 32 mm

No. 91410-17



Curved Blunt/Blunt

17 cm  
Cutting edge: 32 mm

No. 91411-17

DISCOUNT %

Quantity discount for student instruments:  
5 – 9 = 5%  
10 + = 10%  
Per item, selection cannot be assorted for discount.

Metzenbaum Baby



**Curved  
Blunt/Blunt**

14.5 cm  
Cutting edge: 22 mm

No. 91419-14

Metzenbaum



**Straight  
Blunt/Blunt**

14.5 cm  
Cutting edge: 22 mm

No. 91416-14

**Curved  
Blunt/Blunt**

18 cm  
Cutting edge: 24 mm

No. 91417-18

Strong Scissors



**Curved  
Sharp/Sharp**

Student Quality  
10.5 cm  
Cutting edge: 20 mm

No. 91405-10

Bone Scissors

For cutting fine bone.



**Curved  
Sharp/Sharp**

9 cm  
Cutting edge: 14 mm

No. 91604-09

% DISCOUNT

Quantity discount  
for student  
instruments:  
5 – 9 = 5%  
10+ = 10%  
Per item, selection  
cannot be assorted  
for discount.

STUDENT INSTRUMENTS

DISCOUNT %

Quantity discount  
for student  
instruments:  
5 – 9 = 5%  
10+ = 10%  
Per item, selection  
cannot be assorted  
for discount.

STUDENT INSTRUMENTS



Scalpel Handle #4

Scalpel Handle #3

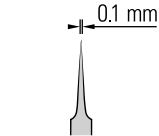
Dumont #5

Dumont #7



For scalpel blades,  
see page 77.

For scalpel blades,  
see page 78.



Standard  
Straight

11 cm  
0.1 x 0.06 mm  
Surgical Stainless  
Steel (Inox)

No. 91150-20



Standard  
Curved

11 cm  
0.17 x 0.1 mm  
Surgical Stainless  
Steel (Inox)

No. 91197-00



% DISCOUNT

Quantity discount  
for student  
instruments:  
5 - 9 = 5%  
10+ = 10%  
Per item, selection  
cannot be assorted  
for discount.

STUDENT

DISCOUNT %

Quantity discount  
for student  
instruments:  
5 - 9 = 5%  
10+ = 10%  
Per item, selection  
cannot be assorted  
for discount.

STUDENT

#5



#3



#7



#5/45



Feilchenfeld

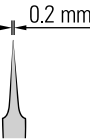


Splinter Forceps



% DISCOUNT

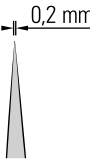
Quantity discount  
for student  
instruments:  
5 – 9 = 5%  
10+ = 10%  
Per item, selection  
cannot be assorted  
for discount.



Straight

11 cm  
0.2 x 0.1 mm

No. 91115-10



Straight / Broad shanks

12 cm  
0.2 x 0.2 mm

No. 91113-10



Curved

12 cm  
0.2 x 0.2 mm

No. 91117-10



Angled

11 cm  
0.2 x 0.2 mm

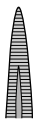
No. 91110-10



Serrated/Sharp  
Straight

9 cm  
Tip Ø: 0.75 mm

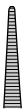
No. 91139-09



Serrated/Sharp  
Straight

11.5 cm  
Tip Ø: 1 mm

No. 91139-12



Serrated  
Straight

10.5 cm  
Tip Ø: 0.3 mm

No. 91156-11

DISCOUNT %

Quantity discount  
for student  
instruments:  
5 – 9 = 5%  
10+ = 10%  
Per item, selection  
cannot be assorted  
for discount.

STUDENT INSTRUMENTS

Micro Adson

Adson

Wide, strong grip with narrow tips.

Adson-Brown

Adson with Cross Serrations

Anatomical and Surgical

Broad pattern with strong spring action.



80% of actual size



80% of actual size



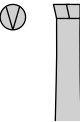
Anatomical Standard Pattern



Straight Serrated

Tip width (mm)	Length (cm)	Item
2.5	11.5	No. 91100-12
2.7	13	No. 91100-13
3	14.5	No. 91100-14
3.5	16	No. 91100-16
4	17	No. 91100-17

Surgical Standard Pattern



Straight 1x2 Teeth

Tip width (mm)	Length (cm)	Item
2.2	12	No. 91121-12
2.4	13	No. 91121-13
2.6	14.5	No. 91121-14
2.8	15.5	No. 91121-15
3	16	No. 91121-16
3.5	18	No. 91121-18
4	20	No. 91121-20
4.5	25	No. 91121-25

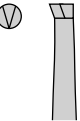
Anatomical Narrow Pattern



Straight Serrated

Tip width (mm)	Length (cm)	Item
1.5	11.5	No. 91102-12
2.1	13	No. 91102-13
2.2	14.5	No. 91102-14
2.3	16	No. 91102-16

Surgical Narrow Pattern

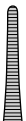


Straight 1x2 Teeth

Tip width (mm)	Length (cm)	Item
2	11.5	No. 91123-12
2.2	14.5	No. 91123-14
2.4	16	No. 91123-16

% DISCOUNT

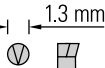
Quantity discount for student instruments:  
5 – 9 = 5%  
10+ = 10%  
Per item, selection cannot be assorted for discount.



Serrated

12 cm  
Tip width: 0.7 mm

No. 91118-12



1x2 Teeth

12 cm  
Tip width: 1.3 mm

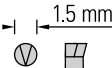
No. 91119-12



Serrated

12 cm  
Tip width: 1.5 mm

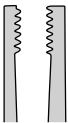
No. 91106-12



1x2 Teeth

12 cm  
Tip width: 1.5 mm

No. 91127-12



Shark teeth

12 cm  
Tip width: 2.5 mm

No. 91162-12



1x2 Teeth/  
Cross-serrations

12 cm  
Tip width: 1.3 mm

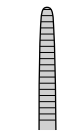
No. 91427-12

DISCOUNT %

Quantity discount for student instruments:  
5 – 9 = 5%  
10+ = 10%  
Per item, selection cannot be assorted for discount.

STUDENT INSTRUMENTS

Semken



Serrated  
Straight

11.5 cm  
Tip width: 1.2 mm

No. 91108-12

Straight

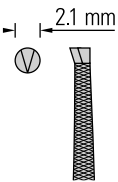
14.5 cm  
Tip width: 2.2 mm

No. 91108-14

Gillies



80% of  
actual size



1x2 Teeth and  
Cross-Serrations

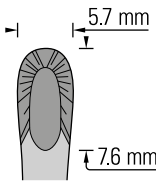
15.5 cm  
Tip width: 2.1 mm

No. 91128-15

Russian



80% of  
actual size



Serrated

15 cm  
Tip dimension: 7.6 x 5.7 mm

No. 91126-15

McIndoe



80% of  
actual size



Serrated

15 cm  
Tip width: 1.2 mm

No. 91138-15

Halsted-Mosquito



Straight  
Serrated

12.5 cm  
Tip width: 1.4 mm

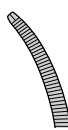
No. 91308-12



Curved  
Serrated

12.5 cm  
Tip width: 1.4 mm

No. 91309-12



Curved  
1x2 Teeth and  
Serrations

12.5 cm  
Tip width: 2 mm

No. 91331-12

Hartmann



Curved  
Serrated

10 cm  
Tip width: 1.5 mm

No. 91303-10

% DISCOUNT

Quantity discount  
for student  
instruments:  
5 – 9 = 5%  
10+ = 10%  
Per item, selection  
cannot be assorted  
for discount.

DISCOUNT %

Quantity discount  
for student  
instruments:  
5 – 9 = 5%  
10+ = 10%  
Per item, selection  
cannot be assorted  
for discount.

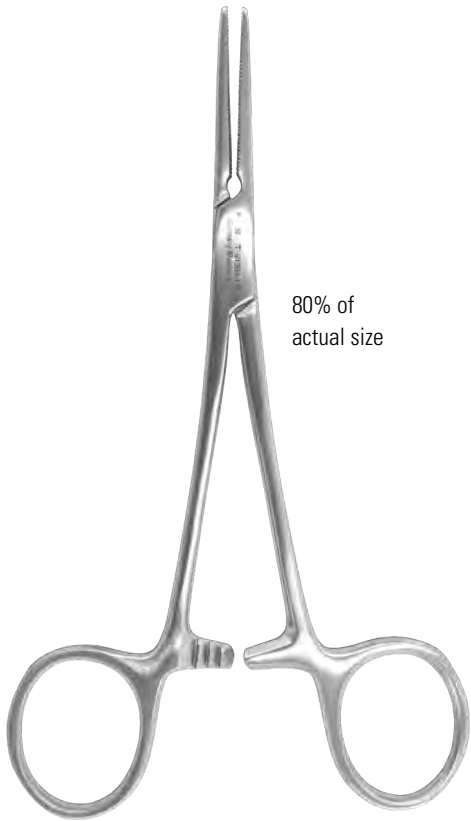


Crile

Kelly

Rochester-Pean

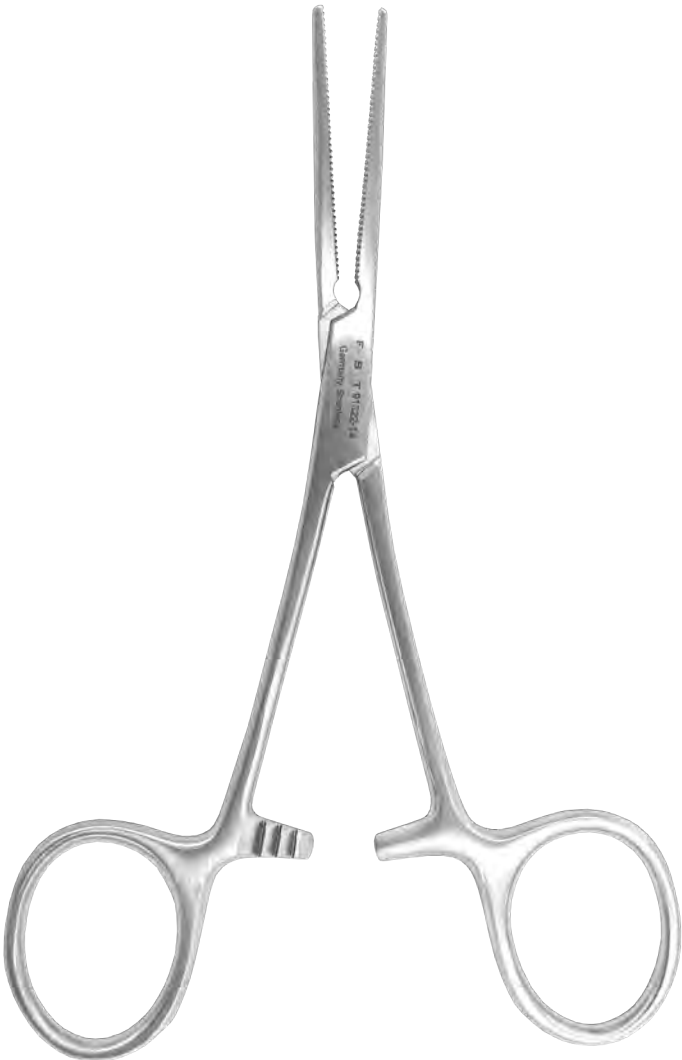
Pean



80% of  
actual size



80% of  
actual size



**%** DISCOUNT

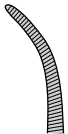
Quantity discount  
for student  
instruments:  
5 – 9 = 5%  
10+ = 10%  
Per item, selection  
cannot be assorted  
for discount.



**Straight  
Serrated**

14 cm  
Tip width: 1.5 mm

No. 91304-14



**Curved  
Serrated**

14 cm  
Tip width: 1.5 mm

No. 91305-14

**Straight  
Serrated**

16 cm  
Tip width: 2 mm

No. 91304-16

**Curved  
Serrated**

16 cm  
Tip width: 2 mm

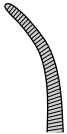
No. 91305-16



**Straight  
Serrated**

14 cm  
Tip width: 2 mm

No. 91318-14



**Curved  
Serrated**

14 cm  
Tip width: 2 mm

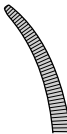
No. 91319-14



**Straight  
Serrated**

14 cm  
Tip width: 2 mm

No. 91316-14



**Curved  
Serrated**

14 cm  
Tip width: 2 mm

No. 91317-14

**Straight  
Serrated**

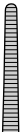
16 cm  
Tip width: 2.5 mm

No. 91316-16

**Curved  
Serrated**

16 cm  
Tip width: 2.5 mm

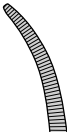
No. 91317-16



**Straight  
Serrated  
Narrow**

14 cm  
Tip width: 2 mm

No. 91322-14



**Curved  
Serrated  
Narrow**

14 cm  
Tip width: 2 mm

No. 91323-14

DISCOUNT **%**

Quantity discount  
for student  
instruments:  
5 – 9 = 5%  
10+ = 10%  
Per item, selection  
cannot be assorted  
for discount.

Pin Holder



% DISCOUNT

Quantity discount for student instruments:  
5 – 9 = 5%  
10+ = 10%  
Per item, selection cannot be assorted for discount.

For pins, see page 145.

Nickel-plated

7.5 cm  
Jaw opening: 0 to 1 mm

No. 91606-07

Halsey



80% of actual size

For suture needles, see page 152 - 153.

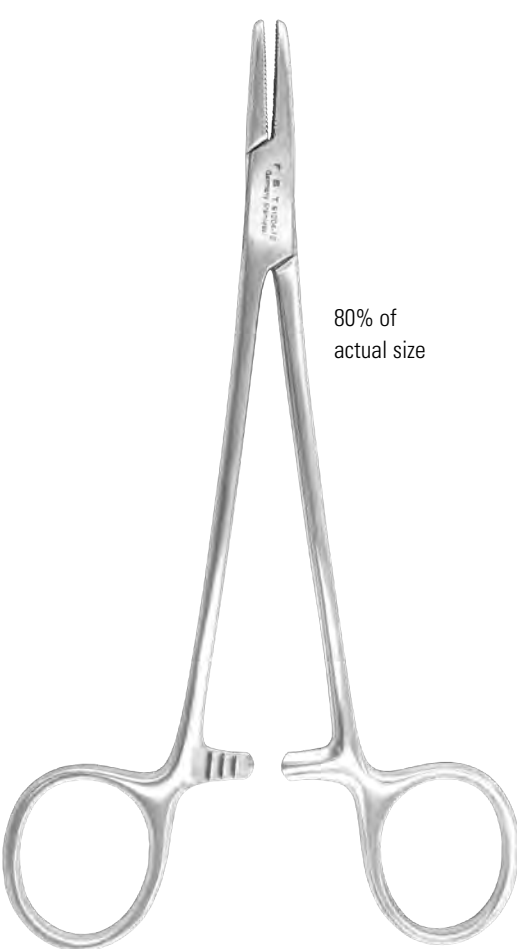


Straight

13 cm  
Tip width: 1.5 mm  
Clamping length: 18 mm  
Lockable: Yes  
Scissors: No

No. 91201-13

Mayo-Hegar



80% of actual size

For suture needles, see page 152 - 153.



Straight

16 cm  
Tip width: 2.6 mm  
Clamping length: 21 mm  
Lockable: Yes  
Scissors: No

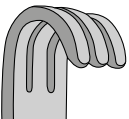
No. 91204-16

Senn-Miller



16 cm  
3 sharp teeth 7 x 8 mm and 1 blunt tooth 18 x 6 mm

No. 91790-16



16 cm  
3 blunt teeth 7 x 8 mm and 1 blunt tooth 18 x 6 mm

No. 91791-16

Vessel Dilator

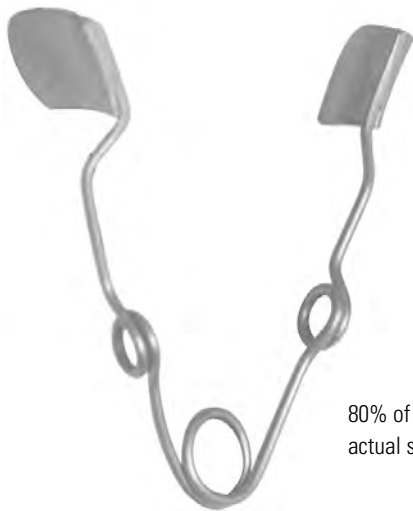


Angled 10°

11 cm  
Tip Ø: 0.3 mm

No. 91815-11

Spring Loaded

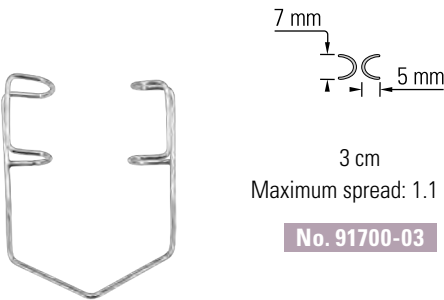


80% of actual size

Atraumatic blades  
8.5 cm  
Maximum spread: 3 cm

No. 91706-05

Barraquer



7 mm  
5 mm

3 cm  
Maximum spread: 1.1 cm

No. 91700-03

Dieffenbach



Straight

35 mm  
Strong pressure

No. 91850-35

DISCOUNT %

Quantity discount for student instruments:  
5 – 9 = 5%  
10+ = 10%  
Per item, selection cannot be assorted for discount.

00071-14	123	10035-00	76	10110-07	73	11003-13	109	11043-08	102	11200-33	91
00072-14	123	10035-05	76	10130-05	145	11003-14	109	11049-10	103	11203-23	91
00108-11	98	10035-10	76	10130-10	145	11003-16	109	11050-10	103	11203-25	91
00109-11	98	10035-12	76	10130-20	145	11003-18	109	11051-10	103	11210-10	91
00125-11	129	10035-15	76	10140-01	135	11003-20	109	11052-10	103	11210-20	91
00126-11	129	10035-20	76	10140-02	135	11006-12	107	11053-10	103	11215-01	61
00272-13	100	10035-25	76	10140-03	135	11006-15	101	11054-10	103	11215-02	61
00276-13	129	10035-30	76	10140-04	135	11008-13	110	11055-10	103	11220-21	90
00325-00	122	10050-00	75	10152-30	72	11008-15	110	11062-10	104	11223-20	90
00396-01	122	10052-11	75	10157-13	72	11009-13	110	11063-07	100	11231-20	88
00398-02	122	10053-09	75	10157-15	72	11009-15	110	11064-07	102	11231-30	88
00400-03	122	10053-13	75	10157-18	72	11010-17	115	11065-07	102	11241-30	90
00574-11	131	10055-12	70	10160-13	137	11011-17	115	11066-07	102	11242-40	90
00608-11	131	10056-12	70	10162-12	133	11012-18	115	11067-07	102	11251-10	85
00632-11	98	10058-15	71	10165-11	136	11012-21	115	11069-08	102	11251-20	85
00649-11	98	10059-13	70	10166-11	136	11012-25	115	11070-08	102	11251-21	86
10000-10	80	10059-15	71	10167-11	136	11013-18	115	11071-10	104	11251-23	85
10000-11	80	10060-00	80	10290-13	137	11013-21	115	11072-11	106	11251-30	85
10000-15	80	10060-13	80	10315-12	76	11014-18	114	11073-10	105	11251-33	87
10002-00	79	10061-12	135	10316-14	76	11015-18	114	11074-02	105	11251-35	87
10002-50	79	10062-12	135	10317-14	76	11016-17	115	11075-00	105	11252-00	83
10003-12	78	10063-15	134	10318-14	76	11017-17	115	11076-15	110	11252-20	85
10003-13	78	10064-14	135	10321-08	143	11018-12	107	11080-02	114	11252-21	86
10004-13	77	10065-15	134	10360-13	143	11019-12	107	11083-07	99	11252-23	85
10006-12	81	10066-15	134	10370-13	71	11020-12	107	11084-07	99	11252-30	85
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10020-00	77	10090-17	138	11000-30	109	11024-12	110	11103-09	106	11258-20	92
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10025-45	74	10098-06	141	11002-12	109	11030-12	108	11155-10	103	11273-20	84
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10025-71	187	10100-30	74	11002-16	109	11036-20	115	11160-10	103	11280-11	131
10030-13	134	10100-45	74	11002-18	109	11036-90	115	11200-00	171	11281-11	131
10031-13	134	10110-01	73	11002-20	109	11040-08	102	11200-10	92	11282-11	131
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11295-00	85	11988-03	95	12500-12	149	14003-20	49	14062-10	37	14160-10	38
11295-10	85	11990-14	94	12501-13	149	14004-12	49	14063-09	37	14161-10	38
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11297-00	89	11992-20	96	12503-15	151	14004-16	49	14066-11	44	14184-09	36
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11445-12	95	12028-12	154	13011-12	117	14013-17	55	14079-10	42	14512-17	54
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11700-00	105	12052-08	152	14000-20	49	14037-10	47	14095-11	37	14575-11	43
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11700-02	105	12052-10	152	14001-13	49	14041-10	39	14105-12	45	14855-10	35
11700-03	105	12052-11	152	14001-14	49	14054-13	50	14106-09	48	14958-09	41
11700-04	105	12060-01	146	14001-16	49	14058-09	40	14108-09	48	14958-11	41
11851-20	93	12060-02	146	14001-18	49	14058-11	40	14110-15	54	14959-09	41
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11911-11	93	12061-02	146	14002-13	49	14059-11	40	14111-15	54	15000-00	23
11915-11	93	12074-12	147	14002-14	49	14060-09	37	14111-17	54	15000-01	26
11917-12	93	12075-12	147	14002-16	49	14060-10	37	14116-14	53	15000-02	26
11923-13	94	12075-14	147	14003-12	49	14060-11	37	14116-18	53	15000-03	23
11972-20	96	12076-12	147	14003-13	49	14061-09	37	14117-14	53	15000-04	23
11980-13	95	12080-14	147	14003-14	49	14061-10	37	14117-18	53	15000-08	23
11988-01	95	12081-14	147	14003-16	49	14061-11	37	14130-17	50	15000-10	23
11988-02	95	12102-12	150	14003-18	49	14062-09	37	14131-14	51	15000-11	26

15000-12	26	15610-08	26	17004-05	159	18020-20	153	18058-15	125	18200-10	163
15001-08	23	15615-08	26	17005-03	158	18020-30	153	18058-18	125	18200-11	163
15002-08	23	15617-08	26	17005-04	159	18020-40	153	18059-14	124	18200-12	163
15003-08	24	15650-11	27	17006-05	161	18020-50	153	18060-18	165	18200-20	163
15004-08	24	15651-11	27	17007-08	161	18020-60	153	18060-20	165	18200-50	163
15005-08	24	15750-11	27	17008-07	160	18020-70	153	18060-22	165	18320-11	125
15006-09	28	15751-11	27	17009-07	160	18025-10	100	18060-24	165	18374-43	125
15007-08	25	15903-08	24	17009-08	160	18026-10	101	18061-10	165	18374-44	125
15008-08	24	15904-08	24	17010-07	160	18030-30	153	18061-15	166	18403-11	131
15009-08	25	16000-14	59	17011-10	162	18030-40	153	18061-18	166	18406-11	131
15010-09	29	16001-15	58	17012-11	162	18030-50	153	18061-20	166	18406-13	131
15010-10	29	16004-16	59	17012-13	162	18030-60	153	18061-22	165	18555-01	125
15011-12	31	16005-16	59	17020-17	157	18030-70	153	18061-24	165	18555-02	125
15012-12	31	16015-17	58	17021-13	157	18030-80	153	18061-38	165	18555-03	125
15013-12	31	16016-17	58	17022-13	157	18035-01	186	18061-50	165	18555-04	125
15015-11	30	16020-14	57	17023-13	157	18035-02	186	18061-75	165	18601-15	111
15017-10	28	16021-14	57	17300-02	159	18035-03	186	18062-12	128	18602-15	111
15018-10	30	16025-14	67	17300-03	159	18035-05	186	18062-13	128	18603-14	111
15019-10	30	16030-12	64	17300-04	159	18035-35	186	18063-13	128	18961-15	166
15020-15	32	16030-16	64	17370-53	159	18035-50	186	18063-20	165	18961-17	166
15021-15	32	16044-10	64	18000-00	185	18035-80	186	18064-20	165	18961-18	166
15023-10	27	16050-15	65	18000-01	185	18036-19	186	18065-20	165	18961-20	166
15024-10	27	16060-11	68	18000-02	185	18036-22	186	18067-10	165	18961-75	166
15025-10	27	16101-10	62	18000-03	185	18036-24	186	18067-11	133	18961-85	166
15030-14	34	16102-11	62	18000-04	185	18038-45	126	18067-20	165	19003-00	191
15031-14	34	16104-14	66	18000-10	130	18039-45	126	18067-50	165	19003-01	191
15033-09	28	16104-19	66	18000-18	183	18040-11	122	18067-75	165	19007-05	183
15036-14	34	16105-16	66	18000-20	183	18040-14	123	18080-01	127	19007-07	183
15037-14	34	16106-14	66	18000-30	169	18040-22	122	18080-02	127	19007-09	183
15040-11	29	16107-14	60	18000-35	190	18040-33	122	18080-03	127	19007-14	183
15042-11	29	16109-14	60	18000-45	174	18050-32	126	18090-45	175	19007-21	183
15043-08	25	16120-14	57	18000-46	174	18050-35	126	18090-46	175	19007-29	183
15044-08	25	16121-14	57	18000-47	175	18050-50	126	18090-50	175	19008-07	183
15070-08	25	16130-15	65	18000-50	174	18051-32	126	18090-51	175	19008-09	183
15071-08	25	16140-11	63	18000-51	174	18051-35	126	18105-01	186	19008-14	183
15110-08	33	16143-12	63	18000-52	175	18051-50	126	18105-04	186	19009-00	68
15111-08	33	16144-13	63	18004-18	183	18052-01	126	18131-12	129	19009-05	183
15123-12	32	16150-24	67	18004-23	183	18052-02	126	18132-12	129	19009-07	183
15124-12	32	16152-11	64	18004-27	183	18052-03	126	18144-30	125	19009-09	183
15200-00	33	16152-12	64	18004-50	183	18052-12	128	18155-13	104	19010-00	68
15370-50	29	16152-15	64	18010-00	184	18053-28	126	18196-10	186	19010-01	68
15370-52	29	16220-14	56	18010-01	184	18054-28	126	18200-01	163	19010-10	68
15371-92	30	16221-14	56	18010-02	184	18055-01	125	18200-02	163	19010-11	68
15396-00	26	17000-01	158	18019-00	184	18055-02	125	18200-03	163	20311-21	181
15396-01	26	17000-02	158	18019-01	184	18055-03	125	18200-04	163	20325-00	177
15400-12	32	17000-03	158	18019-02	184	18055-04	125	18200-05	163	20325-10	177
15401-12	32	17000-04	158	18020-00	153	18055-05	125	18200-06	163	20330-00	180
15403-08	24	17002-02	158	18020-01	153	18055-06	125	18200-07	163	20330-01	180
15404-08	24	17003-03	158	18020-02	153	18056-14	124	18200-08	163	20330-02	180
15514-12	31	17004-03	158	18020-03	153	18057-14	124	18200-09	163	20330-03	180

20330-04	180	26000-70	145	29027-00	189	91102-16	211	91400-12	201
20350-00	177	26001-25	145	29055-00	171	91106-12	210	91400-14	201
20810-01	178	26001-30	145	29060-00	182	91108-12	212	91401-10	201
20810-02	178	26001-35	145	29060-01	182	91108-14	212	91401-12	201
20830-00	181	26001-40	145	29060-02	182	91110-10	208	91401-13	201
20830-01	181	26001-45	145	29060-03	182	91113-10	208	91401-14	201
20830-02	181	26001-50	145	29060-04	182	91115-10	208	91402-10	201
20830-03	181	26001-55	145	29060-05	182	91117-10	208	91402-12	201
20830-04	181	26001-60	145	29060-06	182	91118-12	210	91402-13	201
20830-05	181	26001-65	145	29066-00	182	91119-12	210	91402-14	201
20830-06	181	26001-70	145	29066-01	182	91121-12	211	91404-12	201
20831-10	182	26002-10	145	29066-02	182	91121-13	211	91404-13	201
20840-01	179	26002-15	145	29066-03	182	91121-14	211	91404-14	201
20840-02	179	26002-20	145	29066-04	182	91121-15	211	91405-10	205
20840-03	179	26003-15	145	29070-01	172	91121-16	211	91405-11	201
20842-03	179	26007-01	145	29070-02	172	91121-18	211	91405-13	201
20850-00	178	26007-02	145	29070-03	172	91121-20	211	91405-14	201
20850-10	178	26007-03	145	29070-04	172	91121-25	211	91408-14	200
20850-11	178	26007-04	145	29070-05	172	91123-12	211	91409-15	203
24202-01	169	26007-05	145	29070-06	172	91123-14	211	91410-17	203
24202-02	169	26016-12	144	29070-07	172	91123-16	211	91411-17	203
24202-03	169	26018-17	144	29070-08	172	91126-15	212	91413-14	203
24202-04	169	26029-10	106	29070-09	172	91127-12	210	91413-18	203
24202-05	169	26030-10	106	29071-01	172	91128-15	212	91413-20	203
24202-06	169	27000-01	191	29071-02	172	91138-15	212	91416-14	204
24202-11	169	28000-06	173	29071-03	172	91139-09	209	91417-18	204
24202-12	169	28000-11	173	29071-04	172	91139-12	209	91419-14	204
24202-13	169	28000-14	173	29071-05	172	91150-20	207	91427-12	210
24202-14	169	28001-02	176	29071-06	172	91156-11	209	91460-11	200
24202-15	169	28015-15	176	29071-08	172	91162-12	210	91461-11	200
24202-16	169	28015-25	196	29071-09	172	91197-00	207	91468-12	202
24212-01	168	28020-20	176	29080-02	172	91201-13	216	91476-09	202
24212-02	168	28020-28	196	30051-10	187	91204-16	216	91500-09	200
24214-02	168	28030-02	192	30076-14	187	91303-10	213	91501-09	200
24215-02	167	28030-03	192	30085-15	189	91304-14	214	91604-09	205
24220-00	170	28030-04	192	30085-30	189	91304-16	214	91606-07	216
24221-10	170	28030-20	195	30087-00	190	91305-14	214	91700-03	217
24221-50	170	28030-25	195	30087-20	190	91305-16	214	91706-05	217
24221-90	170	28040-30	194	37500-00	188	91308-12	213	91790-16	217
24916-01	167	28050-30	194	37500-05	188	91309-12	213	91791-16	217
24916-02	167	28050-35	194	91003-12	206	91316-14	215	91815-11	217
26000-25	145	28080-10	193	91004-13	206	91316-16	215	91850-35	217
26000-30	145	29000-00	171	91100-12	211	91317-14	215		
26000-35	145	29000-10	197	91100-13	211	91317-16	215		
26000-40	145	29008-01	187	91100-14	211	91318-14	214		
26000-45	145	29008-12	187	91100-16	211	91319-14	214		
26000-50	145	29008-22	171	91100-17	211	91322-14	215		
26000-55	145	29015-50	197	91102-12	211	91323-14	215		
26000-60	145	29025-02	192	91102-13	211	91331-12	213		
26000-65	145	29026-10	192	91102-14	211	91400-10	201		



A

Absorption swabs	186
Adson DeBakey Forceps	108
Adson Forceps	107,210
Adson-Brown Forceps	108,210
Adson-Graefe Forceps	108
Agricola Retractor	159
Allis Clamp Forceps	121
Alm Retractors	160
Animal Identification	
Ear Punch	167-168
Ear Tags	170
Markers	169
Autoclave Tape	176

B

Baby-Mixer Hemostat	119
Backhaus Towel Clamp	120
Barraquer Retractors	217
BeeBee Bone Scissors	64
Biemer	
Clip Applicator	124
Clips	125
Bishop-Harman	102
Blair Retractor	157
Boehler Bone Cutter	65
Bone	
Austin Chisel	69
Dissecting Chisel	69
Forceps	68
Nipper	62
Scissors	205
Scraper	69
Screws	68
Spring Scissors	63
Wax	68
Bonn	
Forceps	99
Micro Probe	134
Scissors	35-36,47
Bonn-Strabismus Scissors	36
Breakable Scalpels	75
Bulldog Clamps	125

C

Calipers	190
Cannulation System	130
Carbon Steel Blades	76
Castroviejo	
Needle Holder	146,148
Spring Scissors	27-28
Surgical Caliper	190
Cataract Knife	70
Cauterizer	184-185
Ceramic	
Scalpel Handle	74
Scalpels	74,187

Ceramic Coated	
Forceps	83,89
Iris Scissors	41
Spring Scissors	27
Circular Saw	183
Cleaning Brush	186
Cleveland Bone Cutter	66
Clips (Vascular)	
Biemer	125
Bulldog Artery Spring Clamp	125
Dieffenbach	217
Dietrich Bulldog	126
Double Clamps	122
Micro Serrefines	125
Mini Serrefines	126
S&T® Micro	122
Schwartz Micro Serrefines	126
Titanium	125

Clock (Electronic Timer)	191
Cohan-Vannas Spring Scissors	26
Colibri Retractors	158-159
Combination Spatula and Probe	138
Combination Spatula and Spoon	138
Cover Glass Forceps	105
Crile Hemostats	118,214
Crile-Wood Needle Holders	151
Cross-Action Forceps	105
Curettes	69
Cutters	61
Beebee Bone Scissors	64
Boehler Bone Cutter	65
Bone Nipper	62
Bone Pliers	67
Bone Scissors	64
Bone Shears	67
Bone Trimmers	60
Cartilage	60
Cleveland	66
Dumont	61
Liston Bone	66
Littauer Bone	64
Malleus Nipper	63
Skull Flap	65

D

DeBakey Forceps	110
Decapitation Scissors	55
Diamond Coated Forceps	94
Diamond Knives	74
Dieffenbach Clamp	217
Dietrich Bulldog Clamps	126
Double Micro Clamp Applying Forceps	123
Double Micro Clamps	122
Dowell Spring Scissors	29
Drill Accessories	
Burrs	183
Circular Saw	183

Mandrel	183
Trephines	183
Dumont	61,83-92,131,207
Dumoxel	
Forceps	89

E

Ear Punchs	167-168
Ear Tags	170
Episcleral Forceps	104
Eschenbach Magnifier	194-196
Clip-on LED light	195
Exclusive Line	
Forceps	93
Needle Holder	146
Rongeurs	56
Scissors	35

F

Feeding Needles	
Reusable	165
Single Use	166
Feilchenfeld Forceps	209
File Set	187
Fomon Retractor	157
Forceps	95-96
Adson	107
Adson (Student)	210
Adson DeBakey	108
Adson-Brown	108
Adson-Brown (Student)	210
Adson-Graefe	108
Allis Clamp Forceps	121
Balanced	93,111
Biemer Clip Applicator	124
Bishop-Harman	102
Bone	68
Bonn	99
Bonn Micro	99
Ceramic Coated	83,89
Circle	106
Cover Glass	105
Cover Slip	87
Cross Action	105
DeBakey Round Handled	110
Diamond Coated	94
Double Micro Clamp Applying	123
Dumont	83-92,131
Dumont (Student)	207
Dumoxel	89
Episcleral	104
Epoxy Coated	90-91
Feilchenfeld (Student)	209
Forceps Style Clip Applicator	124
Gerald	114
Gillies	113

Gillies (Student)	212
Gold Plated	93
Graefe	102-103
Insect Handling	106
Laminectomy	90
London	114
McIndoe (Student)	212
Micro Adson	107
Micro Adson (Student)	210
Micro-Blunted Tips	84
Mirror Finish	85,94-95
Moria Iris	97
Moria Paufique	98
Moria Suture Tying	100
Moria Ultra Fine	97
Mouse Handling	115
Narrow Pattern	109
O-Rings	171
Octagon	102
Organ Holding	113
Pierse Fixation	104
Plastic	105
Potts-Smith	115
Repair Kit	171
Replaceable Tips	95
Ring	106
Russian	113
Russian (Student)	212
S&T®	98
S&T® Micro Clamp Applying	123
S&T® SuperGrip	98
S&T® Suture Tying	100
S&T® Vessel Cannulation	131
Self-Closing	96
Semken	110
Semken (Student)	212
Sliding Lock	87,104
Sorensen	111
Splinter (Student)	209
Standard Pattern	109
Standard Pattern (Student)	211
Student	208
Suture Tying	99-101
Taylor	115
Tissue	112
Titanium	89,114
Vessel Cannulation	131
Vessel Dilators	129
Vessel Dilators (Student)	217
Vial	101
Forceps Style Clip Applicator	124
Forceps with Replaceable Tips	95
Friedmann Rongeurs	59
Friedmann-Pearson Rongeurs	56-57

G

Galilean Loupes	194
-----------------	-----

Gavage Feeding Needles	165-166
GenoPunch	167
Gerald Forceps	114
Gillies Forceps	113,212
Gold Plated Forceps	93
Gold Wire Contacts	191
Goldstein Retractors	158
Graefe Forceps	102-103
Graefe Scissors	47
Grooved Director	137
Gross Anatomy Blade and Handle	80
Gross Anatomy Knives	72
Gross Anatomy Probe	137
Guthrie Retractor	157

H

Halsey Needle Holder	149,216
Halsted-Mosquito Hemostats	117,213
Hartmann Hemostats	120,213
Heavy Scissors	205
Heiss Retractor	162
Hemostats	116
Baby-Mixer	119
Crile	118
Crile (Student)	214
Halsted-Mosquito	117
Halsted-Mosquito (Student)	213
Hartmann	120
Hartmann (Student)	213
Kelly	118
Kelly (Student)	214
Mosquito	117
Pean (Student)	215
Providence-Hospital	119
Rochester-Pean (Student)	215
Ultra-fine	116
Hippocampal Dissecting Tool	142
Holders and Breakers	75
Hooks	134-135
Hot Bead Sterilizer	174-175

I

Insect Handling Forceps	106
Insect Pins	145
Insert Pins	145
Instrument Care	
Double Tip Protectors	182
Forceps Repair Kit	171
Instrument Oil	171
Marking Tape	172
Sharpening Stones	171,187
Tip Protectors	182
Instrument Cases	
Aluminum (Storage)	180-181
Plastic (Storage)	181
Sterilization	178-179

Instrument Oil	171
Iris Scissors	36-42,200
Iris Spatula	140

K

Kalt Needle Holders	147
Kaye Scissors	48
Kelly Hemostats	118,214

L

LaGrange Scissors	45
Large Loops Scissors	48
Lempert Rongeurs	59
Lens Paper	197
Lexer-Baby Scissors	42
Ligation Aids	128
Lister	
Scissors	51,203
Liston Bone Cutter	66
Littauer Bone Cutter	64
London Forceps	114
Lorna Towel Clamp	121
Luer Rongeurs	58

M

Magnifiers / Loupes	192-196
Cleaning Kit	197
Malleus Nipper	63
Mandrel	183
Markers	169
Marking Tape	172
Mathieu Needle Holder	148
Mayo Scissors	54,203
Mayo-Hegar Needle Holder	150,216
Mayo-Noble Scissors	55
Mayo-Stille Scissors	55
McIndoe Forceps	212
McPherson Forceps	100
Metzenbaum Baby Scissors	52,204
Metzenbaum Scissors	52-53,204
Michel Suture Clips & Applicators	154
Micro Clip Applicator	124
Micro Serrefines	125
Microsurgical Needles with Suture Thread Attached	152
Mini Serrefines	126
Minutien Pins	145
Moria	
Bulldog Clamp	125
Forceps	97
Iris Scissors	38
Pascheff-Wolff Spring Scissors	30
Paufique Forceps	98
Retractors	159
Spoons	143

Spring Scissors	26
Suture Tying Forceps	100
Vannas-Wolff Spring Scissors	29
Vessel Clamp	125
Mosquito Hemostats Micro	117
Mouse Handling Forceps	115
Multipurpose Forceps	111

N

Narrow Pattern Forceps	109
Needle Holders	
Castroviejo	146,148
Crile-Wood	151
Halsey	149
Halsey (Student)	216
Kalt	147
Mathieu	148
Mayo-Hegar	150
Mayo-Hegar (Student)	216
Olsen-Hegar	150
Round Handled	146
Tungsten Carbide	148-151
Needles	
Etched Tungsten Micro Needles	145
Holders	144
Holders (Student)	216
Insect	145
Insert	145
Minutien	145
Suture Needles	153
Neuro Punches	186
Noyes Spring Scissors	31
Nylon Suture	153

O

O-Rings for Forceps	171
Obsidian Stone Age Scalpels	73
Octagon Forceps	102
Olsen-Hegar Needle Holder	150
Optical Cleaning Kit	197
Organ Holding Forceps	113

P

Pean Hemostats	215
Pearson Rongeurs	58
Pick	133
Pierse Fixation Forceps	104
Pin Holders	144,216
Plastic Forceps	105
Potts-Smith Forceps	115
Probes	135
Bonn Micro Probes	134
Double Pronged Pick	133
Providence-Hospital Hemostats	119
PTFE Feeding Needles	166

R

Repair Kit	171
Retraction System	163
Retractors	157-159,161,217
Agricola	159
Alm	160
Barraquer (Student)	217
Blair	157
Colibri	158-159
Fomon	157
Goldstein	158
Guthrie	157
Heiss	162
Senn-Miller (Student)	217
Weitlaner-Locktite	162
Reusable Feeding Needles	165
Ring Forceps	106
Rochester-Pean Hemostats	215
Rongeurs	
Friedmann	59
Friedmann-Pearson	56-57
Lempert	59
Luer	58
Pearson	58
Round Handled Needle Holders	146-147
Rulers	189
Russian Forceps	113,212

S

S&T®	
Clamp Applying Forceps	123
Forceps	98
Micro Clamps	122
SuperGrip Forceps	98
Suture Tying Forceps	100
Vessel Cannulation Forceps	131
Vessel Dilators	129
Sample Corers	186
Sanvenero Scissors	200
Scalpels	
Breakable	75
Cataract Knife	70
Ceramic Blade Cutter	187
Ceramic Blades	74
Circle Knife	71
Diamond Knives	74
Disposable Safety Scalpels	80
Holders and Breakers	75
Micro	76
Micro Knives	71,76
Safety Scalpel Blade Cartridges	81
Scalpel Blade Remover	79
Scalpel Blades	77-78
Scalpel Handles	77-79,81
Scalpel Handles (Student)	206
Schwartz Micro Serrefines	126
Scissors	
Bone	64

Bone (Student)	205
Bonn	35-36
Bonn Artery	47
Bonn-Gawenda	35
Bonn-Strabismus	36
Decapitation	55
Dissector	46
Graefe	47
Heavy (Student)	205
Iris	36-42
Iris (Student)	200
Kaye	48
LaGrange	45
Large Loops	48
Lexer-Baby	42
Ligature	46
Lister	51
Lister (Student)	203
Mayo	54
Mayo (Student)	203
Mayo-Noble	55
Mayo-Stille	55
Metzenbaum	52-53
Metzenbaum (Student)	204
Metzenbaum Baby	52
Metzenbaum Baby (Student)	204
Micro	34
Moria Iris	38
Sanvenero (Student)	200
Shea	45
Spencer	46
Spencer (Student)	202
Stevens Tenotomy	44
Strabismus	43
Tissue Separating	47
Universal Scissors	188
Utility Scissors	188
Wagner	39
Wagner (Student)	202
Walton	44
Screwdriver	187
Semken Forceps	110,212
Senn-Miller Retractors	217
Sharpening Stones	171,187
Shea Scissors	45
Sichel Knife	70
Silicone Mat	177
Silk Sutures	153
Single Use Feeding Needles	166
Skin Staplers & Applicators	155-156
Sliding Lock Forceps	104
Spatula	139,141
Combination Probe and Spatula	138
Combination Spoon and Spatula	138
Spencer Ligature Scissors	46,202
Spinal Cord Hook	133
Splinter Forceps	209
Spoons	143

Spring Scissors	27,29,32
Bone Cutting	63
Castroviejo	27-28
Cohan-Vannas	26
Dowell	29
Micro	34
Moria	26,29-30
Noyes	31
Pascheff-Wolff	30
Titanium	26
ToughCut®	32
Trident II	33
Tungsten Carbide	31
Vannas	23-26,30,32
Vannas (Student)	200
Vannas-Tübingen	24
Vannas-Wolff	29
Westcott	30
Sterilization	
Containers	178-179
Disposable Wraps	176
Tape	176
Stevens Tenotomy Scissors	44
Storage Cases	180-181
Strabismus Scissors	43
Surgical Scissors	49-51
Student	201
Tungsten Carbide	40-41,43,50,52,54
Suture Needles	152-153
Suture Tying Forceps	99-101

T

Taylor Forceps	115
Timer (Electronic)	191
Tip Protectors	182
Tissue Forceps	112
Tissue Separating Scissors	47
Titanium	
Forceps	89
Titanium Forceps	114
Titanium Micro Point, Y-Hook, and Spatula	136
Towel Clamps	
Backhaus	120
Lorna	121
Travel Case for instruments	182
Trephines	183
Trident II Spring Scissors	33

V

Vannas Spring Scissors	23-26,30,32,200
Vannas-Tübingen Spring Scissors	24
Vascular Occluders	127
Vessel Cannulation Forceps	131
Vessel Dilating Probe	137
Vessel Dilators	129,217
Vial Forceps	101
Von Graefe Knife	70

W

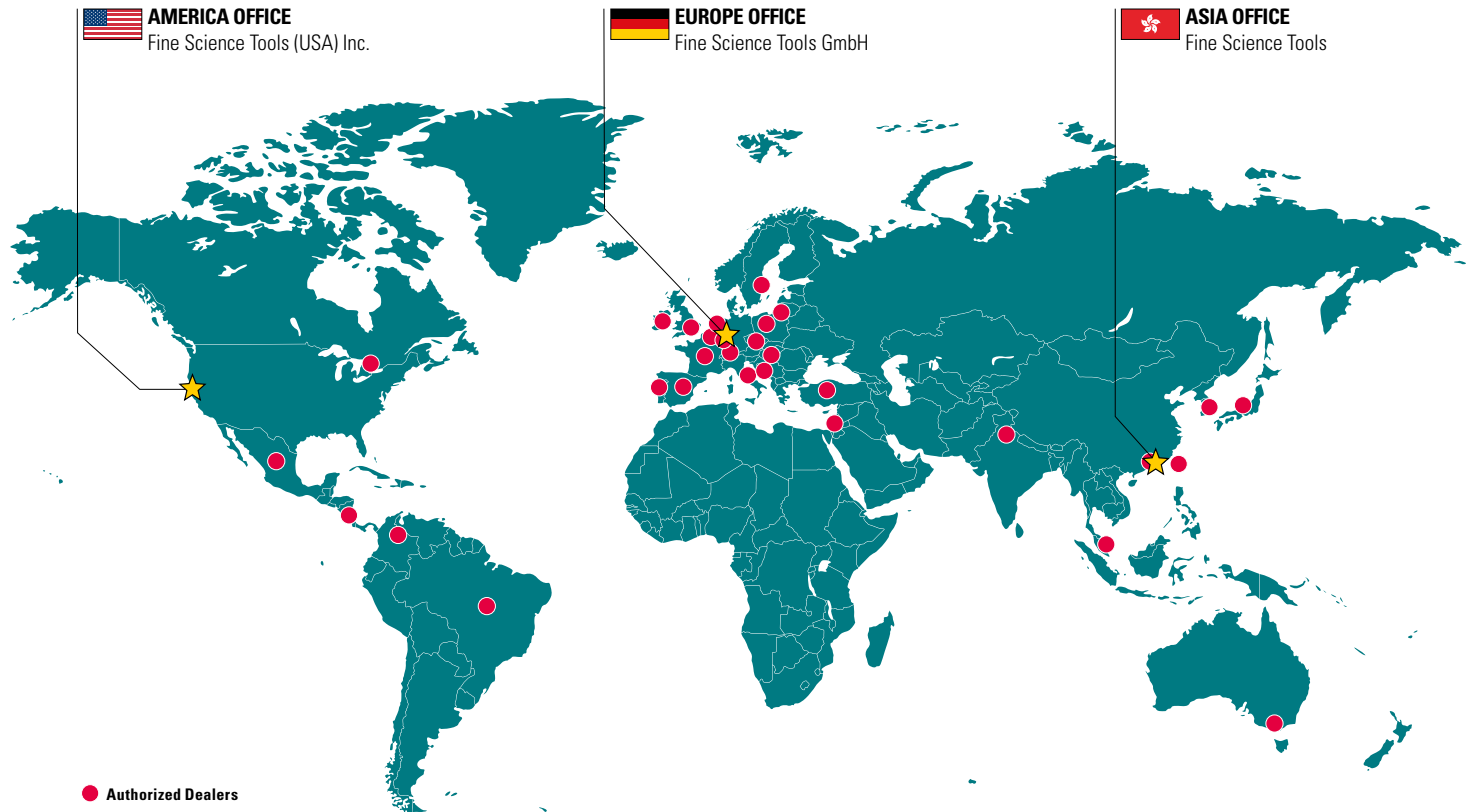
Wagner Scissors	39,202
Walton Scissors	44
Weitlaner-Locktite Retractor	162
Westcott Spring Scissors	30
Wraps	176

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Scissors, Bone Instruments,  
Knives & Scalpels



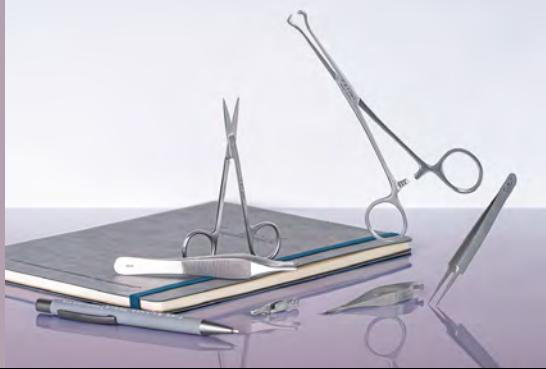
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