

F · S · T  
FINE SCIENCE TOOLS

2024



FINE SURGICAL INSTRUMENTS FOR RESEARCH™



Official UK Distributor for Fine Science Tools

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FREE DELIVERY  
NO MINIMUM ORDER CHARGE  
100% SATISFACTION GUARANTEE

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## How to contact us



01223 894833



01223 894235



[surgicaltools.co.uk](http://surgicaltools.co.uk)



[sales@surgicaltools.co.uk](mailto:sales@surgicaltools.co.uk)



InterFocus Ltd  
Cambridge Road  
Linton  
Cambridge  
CB21 4NN



## LETTER FROM THE MANAGING PARTNER



Markus Gawenda  
Managing Partner

**To our family of valued customers,  
associates, and business partners,**

I am always reinvigorated by the release of our new catalog, as it allows us the opportunity to give appreciation to all who are integral parts of Fine Science Tools. This is also a great time for reflection and setting our sights on what is to come in 2024, an exciting year where we will be celebrating our 50th Anniversary! The journey has been outstanding and our dedication to service and support has propelled us from a very humble beginning to where we are now and where we will go in the future. It remains a pleasure to work closely with such inspiring and talented customers who are devoted to their contributions in science for all of these years and we look forward to serving you for many more years to come. FST has remained steadfast in our assurance to supplying quality instrumentation worldwide to an array of professionals and students in the Biomedical Science and Medical Device Technology industries. It is our unrelenting commitment to quality that is the hallmark of our company. Whether it is innovating new instruments to perfectly meet your exact needs or our teams finding new applications for existing FST instruments, our best information comes from you.

I introduce to you this year's catalog theme, Bubbles illustrating the delicate and precise by nature forms – characteristics which also describe our surgical instruments. A bubble is a microcosm where each individual element bends toward fulfilling its purpose with the whole, similar to our FST teams across the globe.

Resembling the designs of our instruments, bubbles appear simple but are complex encapsulation of elements that are fascinating to both children and adults with their beautiful shapes and colors. The lustrous appearance of bubbles and FST instruments alike catches the attention and curiosity of many.

In an effort to better serve our customers at the highest level and continue to offer our unwavering support, we are optimizing our sales structure and one of our first steps will be shifting operations from Canada to our devoted teams in the US and European offices. While change is inevitable there will always be a constant with our 100% satisfaction guarantee. We have formulated a smooth transition plan, which we can ensure will be seamless and considerate to our customers worldwide.

On behalf of all of Fine Science Tools I would like to thank you for your incredible support and your belief and trust in us to provide high quality surgical instruments to aid in your advancements and breakthroughs in science. Our achievements and longevity would not have been possible without your continued patronage. Fine Science Tools remains committed to being your partner in all aspects of your scientific developments and look forward to continuing our relationship with you for another 50+ years.

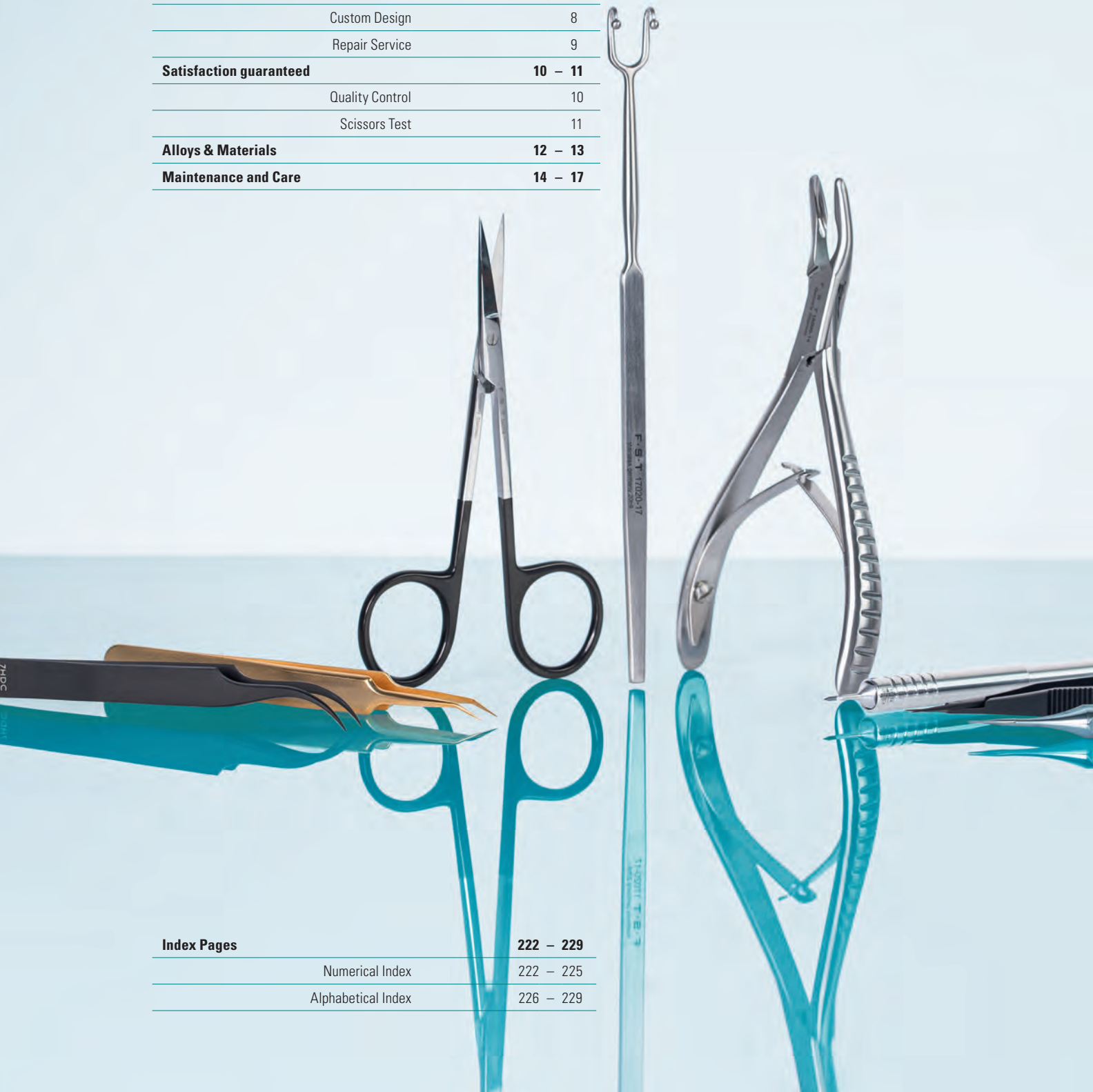
**Thank you again for your continued support and loyalty.**

Markus Gawenda

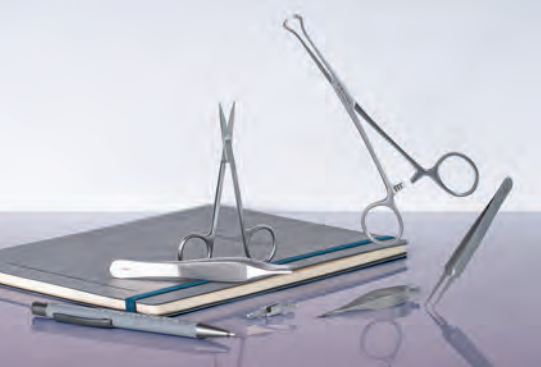
A handwritten signature in black ink, appearing to read 'M. Gawenda'.

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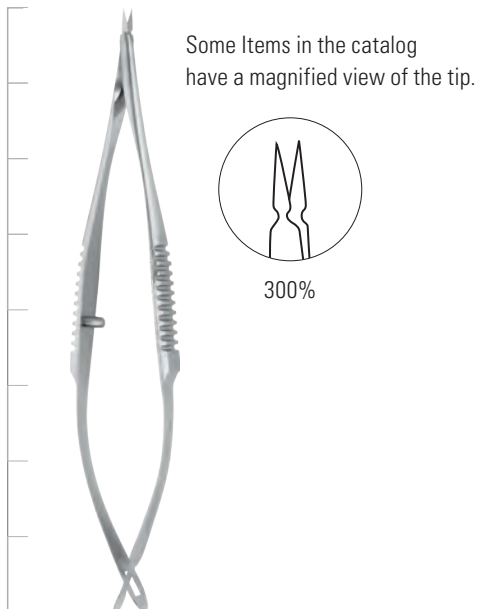
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# Catalog Features

## CATALOG FEATURES

To provide you with our support regarding your decision 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.



Most Items in the catalog have a 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

## ICONS:



**MOST POPULAR**

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.



**SERRATED**

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



**NOT AUTOCLAVABLE**

These items are not suitable for an 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.



**LEFT HANDED**

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

*Scissors: pages 33, 45 / Hemostatic Forceps: page 113*

*Needle Holders: pages 145 - 146 / Ligation Aid: page 125*



**LARGE LOOP**

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, 44 and 47*



**NEW ITEM**

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.

# WE PROUDLY STOCK

F · S · T  
by DUMONT

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

Dumont forceps come in a wide 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 stainless steel.  |
| Dumoxel  | Hard       | No       | 400° C                 | Yes          | The most popular alloy available for Dumont forceps offers the best 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 stainless steels. 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. | #5XL    | Extra Long #5 forceps.  |
| #2AP | Epoxy coated with flat wide blunt tips.   | #5/45   | Tips angled at 45°.   |
| #3   | Long straight forceps with coarse tips. Popular in low magnification procedures.  | #5/45C  | Designed to pick up cover slips from multi-well plates.   |
| #3C  | Shorter version of #3.  | #5/90   | Tips angled at 90°.   |
| #4   | Similar to the #5 but with broader shanks and stronger tips.  | #5AC    | Self-closing Anti-Capillary forceps.  |
| #5   | Most popular style of Dumont straight forceps with fine tips which come in several styles.  | #6      | Sharply angled, broad tips.   |
| #55  | Similar to the #5 but with lighter shanks, giving the forceps a lighter spring action.  | #7      | Most popular style of Dumont curved forceps with fine tips which come in several styles.                                      |
| #5CO | Similar to the #55 but with even finer shanks producing the lightest spring action and longest meeting surface of any Dumont style.                             | #7B     | Curved serrated tips.   |
| #5L  | Medical #5 forceps with slide sleeve for a secure hold and retention.   | AA      | Strong broad tips.  |
| #5SF | The finest tips ever produced by Dumont.  | 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. |



# Timeline

**F · S · T**  
FINE SCIENCE TOOLS  
EST. 1974

## FST SINCE 1974

For nearly 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) and Heidelberg (Germany) supporting and serving customers across the globe.

**1974**

FST established by Hans Gawenda in North Vancouver B.C., Canada.

**1993**

Set up European office in Heidelberg, Germany.

**2003**

Deployed first website to make online ordering hassle-free

**2009**

FST Catalog Cover wins 1st Showcase of Print and Design Excellence award. Since 2009, FST catalog covers and print Ads have won over 22 awards and are well known within the research community.

**1984**

Opened a business office in Foster City, California, near San Francisco.

**1999**

25<sup>th</sup> Anniversary of FST

**1996**

FST invents first and only available 0.5mm Rongeur

**2019**

Markus Gawenda joins the company  
US office in Foster City, California  
relocated and expanded.

**2024**

50<sup>th</sup> Anniversary of FST

**2023**

FST expands workshop  
in Germany

**2014**

FST wins Highest Attention-Getting Ads  
in Nature and Lab Animal Magazines.

**2021**

FST reaches 1.000  
available products

**2018**

Launched redesigned website with zoom  
feature and multiple languages for a more  
immersive product experience.



# Handcrafted



## PRECISION THAT MAKES A MARK

Our surgical mechanics refine and perfect instruments in FST's very own workshop, this is a step that only we take in this form. This is essential for the precision and quality of each and every one of our products.

For example, our Friedman-Pearson rongeurs with tip diameters of 0.5 or 0.7 mm, both are unique in the world. Also, our spring scissors

have established themselves in the research industry and are second to none in terms of fineness.

The result: a level of quality that makes its mark - and to which we have now dedicated our own. Our new symbol "Hand-Crafted" stands for 100% guaranteed craftsmanship and instruments you can rely on in any situation.



## CUSTOM DESIGN

If you have ever thought about how nice it would be to use a personalized, unique instrument, you should contact our custom design service as soon as possible.

We have the capabilities to manufacture any product to your specific requirements or to customize existing products to make them perfect for your application.



## FINE SCIENCE TOOLS SERVICE

We at FST are constantly trying to improve ourselves and our service. This service includes the preparation and repair of instruments, custom-made products and individual pieces of various instruments according to customer requirements, customer-specific advice based on their application and more.

Over the years we have built up a network of partners and collaborations with well-known institutions and companies. As a result, we also offer application-specific instrument kits including complementary items from our partners.

If you are interested or have any questions, please give us a call at one of our offices.

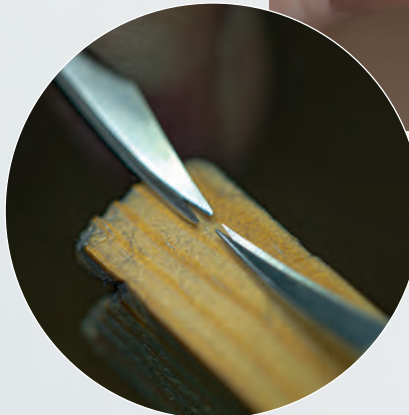


## REPAIR SERVICE

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 for all of our products.

Which includes:

- General repairs
- Sharpening of scissors/spring scissors
- Adjustments of forceps
- Replacement of tungsten carbide jaws
- Cleaning & reconditioning
- Replacement, if an instrument is beyond repair



Additionally, our team is also available for repairs of your instruments which have not been purchased from FST.



# Satisfaction Guarantee

## QUALITY CONTROL

The high quality of Fine Science Tools surgical and microsurgical instruments is the result of our relentless attention to detail. Almost every instrument we sell is manufactured by skilled European craftsmen, designed to exacting specifications made from the finest German stainless steel alloys, and forged from the strongest, lightest materials available, and tested to ensure precision performance and ergonomics.

We are dedicated to quality control, with technicians in our German office inspecting most

FST instruments. Aside from checking instrument dimensions and specifications, we thoroughly inspect tip sharpness, cutting edges, springs, joints, and other various components. Only after passing our detailed inspections, instruments are approved and sealed with our "FST Inspected" sticker.

We are proud to guarantee all of our products with your 100% satisfaction. If, for any reason, you are not completely satisfied with your purchase, you may return it for a full refund.

## 100% SATISFACTION GUARANTEE

*"If, for any reason, you are not completely satisfied with your purchase you may return it for a full refund."*

*Hans Gawenda, Founder, Fine Science Tools Inc.*

**F · S · T**  
FINE SCIENCE TOOLS



## SCISSORS TEST

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

The picture below 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.

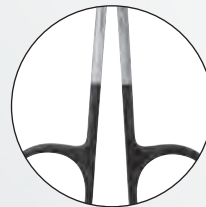
See the chart below for a comparison of four different scissors sold by FST.



The cutting life is more than doubled with the addition of **ToughCut** blades to stainless steel, and over six times longer with **CeramaCut** blades.



**Tungsten Carbide**  
Lasts longer than  
stainless steel by: **1.9x**



**Stainless Steel with ToughCut**  
Lasts longer than  
stainless steel by: **2.3x**



**Tungsten Carbide with ToughCut**  
Lasts longer than  
stainless steel by: **4.1x**



**CeramaCut (Ceramic Coated Tungsten Carbide with ToughCut)**  
Lasts longer than  
stainless steel by: **6.6x**

# Alloys & Materials

There are various alloys and materials which are used to produce micro surgical instruments for research with each having certain properties that would be advantageous in particular environments or applications.

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



## ToughCut® Scissors

- Black handles
- Last approx. 2.3x longer than stainless steel
- One cutting edge has micro serrations to minimize tissue slippage
- One cutting edge has increased sharpness
- (cutting edge with a 30° instead of 15° angle)



## Tungsten Carbide Instruments

- Golden handles (short gold plating)
- Last approx. 1.9x longer than stainless steel
- Is welded onto the cutting edges of scissors or tips of forceps and needles holders
- Available instruments: bone cutters, scissors, forceps, needles, needle holders, burs

## Stainless Steel Instruments

Stainless steel is an alloy, which does exactly what its name implies: stains less than ordinary steel (iron).

- Autoclavable





## CeramaCut® Scissors

- Golden handles and black coating
- Last approx. 6.6x longer than stainless steel
- Cutting edges with Tungsten Carbide and Tough Cut plus ceramic coating
- Ceramic is one of the hardest materials on earth
- Reduced glare



## Tungsten Carbide & ToughCut® Scissors

- Golden handles (long gold plating)
- Last approx. 4.1x longer than stainless steel
- One cutting edge has micro serrations to minimize tissue slippage
- One cutting edge has increased sharpness (cutting edge with a 30° instead of 15° angle)



## Ceramic Instruments

- Ceramic coating
- Last approx. 2.3x longer than stainless steel
- Ceramic is one of the hardest materials on earth
- Reduced glare
- Available instruments: Dumont forceps and spring scissors



## Titanium Instruments

- Approx. 40% lighter than stainless steel
- Softer alloy than stainless steel
- Corrosion resistance (cannot rust)
- Non-Magnetic
- High temperature resistance up to 440°C / 824°F
- Available instruments: scissors, forceps, probes, hooks, spatula, vascular clamps







# Maintenance and Care

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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.

## GENERAL

Guidelines to extend the life of your surgical instruments.

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.

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 below procedures, 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 (pH 7) 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 guns.

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.



## STERILIZATION

It is important that instruments are free from all traces of organic or other matter prior to sterilization.

## 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 172 - 173 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.

*Sterilization pouches and wraps available, see pages 171, 174 and 176 - 178.*



## 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 180.*

*Instrument cases are available, see pages 178 – 180*



## OXIDATION (RUST)

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

# SCISSORS, BONE INSTRUMENTS, KNIVES & SCALPELS

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| Knives & Scalpels | 66 – 77 |
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### Micro 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.



300%

### Micro Vannas

The short taper is ideal for small, precise cuts.



15000-08



300%

### Micro Vannas

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



15000-00



300%



### 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



15003-08



**Straight  
Sharp/Sharp**

8.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.075 mm

**No. 15003-08**



**Angled up  
Sharp/Sharp**

9.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.075 mm

**No. 15005-08**



**Curved  
Sharp/Sharp**

8.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.075 mm

**No. 15004-08**



**Angled to side  
Sharp/Sharp**

8.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.075 mm

**No. 15008-08**



**Straight  
Sharp/Sharp**

8.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.075 mm

**No. 15903-08**



**Curved  
Sharp/Sharp**

8.5 cm  
Cutting edge: 5 mm  
Tip Ø: 0.075 mm

**No. 15904-08**

Vannas Spring Scissors High Polished

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.



Vannas Spring Scissors Round Handle

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.



**Straight  
Sharp/Sharp**

9 cm  
Cutting edge: 5 mm  
Tip Ø: 0.075 mm

**No. 15403-08**



**Curved  
Sharp/Sharp**

9 cm  
Cutting edge: 5 mm  
Tip Ø: 0.075 mm

**No. 15404-08**



## Vannas Scissors with Microserrations

Microserrated to minimize slippage.



### Straight Sharp/Sharp

8.5 cm  
Cutting edge: 7 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

10.5 cm  
Cutting edge: 4 mm  
Tip Ø: 0.15 mm

**No. 15018-10**



### Curved Sharp/Sharp

10.5 cm  
Cutting edge: 4 mm  
Tip Ø: 0.15 mm

**No. 15019-10**



## Vannas

## Miniature Vannas

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



## Moria 9600



### Straight Sharp/Sharp

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

**No. 15396-00**

## Moria 9601



### Curved Sharp/Sharp

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

**No. 15396-01**

## Titanium Vannas



### Straight Sharp/Sharp

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

**No. 15610-08**



### 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**

## Cohan-Vannas

Long cutting blades for a more controlled cut.



### Straight Sharp/Sharp

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

**No. 15000-02**



### Curved Sharp/Sharp

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

**No. 15000-01**

### Straight Blunt/Blunt

6 cm  
Cutting edge: 6 mm  
Tip Ø: 0.15 mm

**No. 15000-12**

### Curved Blunt/Blunt

6 cm  
Cutting edge: 6 mm  
Tip Ø: 0.15 mm

**No. 15000-11**

## ToughCut® Spring Scissors



### 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**

### Round Handled Vannas

Round handles allow easy fingertip adjustments.



**Straight  
Sharp/Sharp**

12.5 cm  
Cutting edge: 6 mm  
Tip Ø: 0.075 mm

**No. 15400-12**

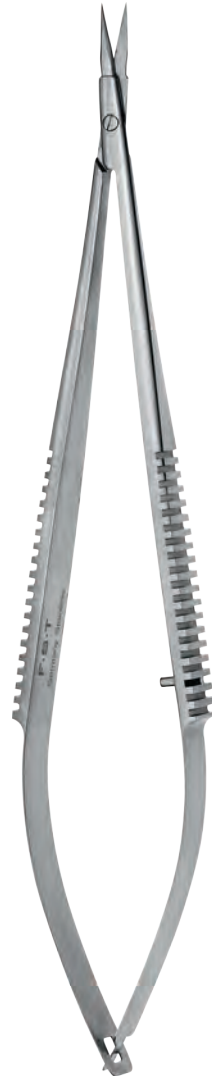


**Curved  
Sharp/Sharp**

12.5 cm  
Cutting edge: 6 mm  
Tip Ø: 0.075 mm

**No. 15401-12**

### Spring Scissors



**Straight  
Sharp/Sharp**

14 cm  
Cutting edge: 6 mm  
Tip Ø: 0.15 mm

**No. 15020-15**



**Curved  
Sharp/Sharp**

14 cm  
Cutting edge: 6 mm  
Tip Ø: 0.15 mm

**No. 15021-15**

### Ceramic Coated Spring Scissors



**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**

Vannas-Wolff

Moria



Vannas

Ultra long cutting edge without sacrificing tip width.



Castroviejo



Moria MC52



**Straight  
Sharp/Sharp**

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

No. 15370-52

Moria MC50



**Curved  
Sharp/Sharp**

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

No. 15370-50

**Straight  
Sharp/Sharp**

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

No. 15009-08

**Angled to side  
Sharp/Sharp**

10 cm  
Cutting edge: 10 mm  
Tip Ø: 0.125 mm

No. 15006-09

### Castroviejo with Ball Tip

Same as No. 15006-09 but with a ball tip to prevent piercing of underlying tissue.



### Spring Scissors



#### Straight Sharp/Sharp

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

**No. 15024-10**



#### Angled to side Sharp/Ball tip

9 cm  
Cutting edge: 8 mm  
Tip Ø: 1.3 mm Ball

**No. 15033-09**



#### Straight Blunt/Blunt

10 cm  
Cutting edge: 8 mm  
Tip Ø: 0.3 mm

**No. 15025-10**



#### Curved Sharp/Sharp

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

**No. 15023-10**



#### 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**

### Dowell





## SPRING SCISSORS

## Noyes



**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**

## Tungsten Carbide Noyes

Tungsten carbide cutting edges  
provide long lasting sharpness.



**Straight  
Sharp/Sharp**

12 cm  
Cutting edge: 14 mm  
Tip Ø: 0.275 mm

**No. 15514-12**

## Castroviejo



**Curved  
Sharp/Sharp**

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

**No. 15017-10**

## Ceramic Coated Titanium Castroviejo



**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**

## Westcott



**Curved  
Sharp/Sharp**

11 cm  
Cutting edge: 15 mm  
Tip Ø: 0.25 mm

**No. 15015-11**

## Fine Angled Spring Scissors

These spring scissors aid in cutting tissues from various angles.



**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: 0.125 mm

**No. 15010-10**

## Trident II

Special design with short handle and inner spring.



**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**

## Pascheff-Wolff

Very delicate blades.



**Angled up  
Sharp/Sharp**

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

**No. 15371-92**

## Long Handle Spring Scissors



**Straight  
Sharp/Sharp**

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

**No. 15028-18**



**Curved  
Sharp/Sharp**

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

**No. 15027-18**

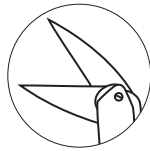


### Micro Scissors

With microserrations to minimize slippage.



300%



300%



**Straight  
Sharp/Sharp**

14.5 cm  
Cutting edge: 2.5 mm  
Tip Ø: 0.175 mm

**No. 15030-14**



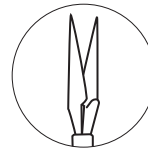
**Angled to side  
Sharp/Sharp**

14.5 cm  
Cutting edge: 2.5 mm  
Tip Ø: 0.175 mm

**No. 15031-14**

### Micro Scissors

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.**



300%



300%



**Straight  
Sharp/Sharp**

14 cm  
Cutting edge: 2.2 mm  
Tip Ø: 0.15 mm

**No. 15036-14**



**Angled to side 90°  
Sharp/Sharp**

14 cm  
Cutting edge: 1 mm  
Tip Ø: 0.1 mm

**No. 15037-14**

## SPRING SCISSORS

**Ultra Fine Clipper Scissors II**

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

**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.



**Straight  
Sharp/Sharp**

10 cm

Cutting edge: 1.5 - 2 mm

Tip Ø: 0.05 - 0.08 mm

Blade shape: Triangular

0.1 mm Blade thickness

**No. 15300-00**

**Biemer Scissors**

These scissors are designed to securely cut vessels without slipping.



**Straight  
Blunt/Blunt**

8.5 cm

Cutting edge: 4 mm

Tip Ø: 2 mm

**No. 15032-08**



**Straight  
Blunt/Blunt**

13 cm

Cutting edge: 2 mm

Tip Ø: 2 mm

**No. 15032-13**



**Extre Fine Bonn**

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



14084-08  
14085-08



**Straight  
Sharp/Sharp**

8.5 cm  
Cutting edge: 10 mm

**No. 14084-08**



**Curved  
Sharp/Sharp**

8.5 cm  
Cutting edge: 10 mm

**No. 14085-08**



**Straight  
Sharp/Blunt**

8.5 cm  
Cutting edge: 10 mm

**No. 14083-08**



**Straight  
Sharp/Sharp**

8.5 cm  
Cutting edge: 10 mm

**No. 14184-09**



**Curved  
Sharp/Sharp**

8.5 cm  
Cutting edge: 10 mm

**No. 14185-09**

**Bonn**

Highly polished.

**ToughCut® Bonn-Strabismus**

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



**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**

## FINE SCISSORS

**Hardened Fine Iris Scissors**

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



14090-09



**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

**Fine Iris Scissors**

Made from Martensitic stainless steel, combined with Molybdenum and Vanadium.



**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

**Iris Scissors**

Delicate pattern.



14060-11

**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**

11.5 cm

Cutting edge: 18 mm

**No. 14063-11****Straight  
Sharp/Sharp**

10.5 cm

Cutting edge: 18 mm

**No. 14160-10****Straight  
Sharp/Sharp**

10.5 cm

Cutting edge: 18 mm

**No. 14161-10****Left Handed Iris Scissors**

**Moria Iris Scissors**

**Moria 4877****Straight  
Sharp/Sharp**12.5 cm  
Cutting edge: 10.5 mm**No. 14370-22****Moria 4878****Curved  
Sharp/Sharp**10.5 cm  
Cutting edge: 14 mm**No. 14370-23****Extra Narrow Iris Scissors**

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

Side-view showing  
extra narrow pattern**Straight  
Sharp/Sharp**10.5 cm  
Cutting edge: 16 mm**No. 14088-10**

## Largo Loops Scissors



**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**

## Wagner



14070-12  
14071-12



**ToughCut®**



14058-09  
14058-11



**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**

**Tungsten Carbide**



14568-09  
14568-12



**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**



**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**

**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 six times 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**

Fine Scissors



**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**

## Strabismus

## Tungsten Carbide Strabismus



**Straight  
Blunt/Blunt**

9 cm  
Cutting edge: 12 mm

**No. 14074-09**



**Curved  
Blunt/Blunt**

9 cm  
Cutting edge: 12 mm

**No. 14075-09**

11.5 cm

Cutting edge: 20 mm

**No. 14074-11**

11.5 cm

Cutting edge: 20 mm

**No. 14075-11**



**Straight  
Blunt/Blunt**

9 cm  
Cutting edge: 12 mm

**No. 14574-09**



**Curved  
Blunt/Blunt**

9 cm  
Cutting edge: 12 mm

**No. 14575-09**

11 cm

Cutting edge: 20 mm

**No. 14574-11**

11 cm

Cutting edge: 20 mm

**No. 14575-11**

Walton



**Curved  
Sharp/Sharp**

9.5 cm  
Cutting edge: 10 mm

**No. 14077-09**



**Curved  
Sharp/Sharp**

10.5 cm  
Cutting edge: 10 mm

**No. 14077-10**

Stevens Tenotomy



**Straight  
Sharp/Sharp**

11 cm  
Cutting edge: 13 mm

**No. 14064-11**



**Curved  
Sharp/Sharp**

11 cm  
Cutting edge: 13 mm

**No. 14065-11**



**Straight  
Blunt/Blunt**

11 cm  
Cutting edge: 13 mm

**No. 14066-11**



**Curved  
Blunt/Blunt**

11 cm  
Cutting edge: 13 mm

**No. 14067-11**

**LaGrange**

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



Side-view



**Curved  
Sharp/Sharp**

11.5 cm  
Cutting edge: 12 mm

**No. 14173-12**

**Shea**

Transplant scissors with light and delicate pattern.



**Curved  
Blunt/Blunt**

12 cm  
Cutting edge: 16 mm

**No. 14105-12**

## FINE SCISSORS

**Dissector Scissors**

Slim blades for cutting tissue.



**Angled to side  
Sharp/Sharp**

10 cm  
Cutting edge: 6 mm

**No. 14081-09**

**Dissector Scissors**

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



**Angled to side  
Sharp/Sharp**

10.5 cm  
Cutting edge: 8 mm

**No. 14082-09**

**Spencer Ligature**

Used for cutting stitches or suture.



**Straight  
Sharp/Sharp**

9 cm  
Cutting edge: 16 mm

**No. 14076-09**

**Bonn Artery**

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 Scissors**

**Straight  
Blunt/Blunt**

11.5 cm  
Cutting edge: 16 mm

**No. 14072-10**



## FINE SCISSORS

**Graefe**

**Angled up  
Sharp/Sharp**

10.5 cm  
Cutting edge: 12 mm

**No. 14037-10**

**Adjustable Loops Fine Scissors**

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



**Straight  
Sharp/Sharp**

9.5 cm  
Cutting edge: 8 mm

**No. 14106-09**



**Straight  
Blunt/Blunt**

9.5 cm  
Cutting edge: 8 mm

**No. 14108-09**

**Kaye**

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



**Curved  
Blunt/Blunt**

10.5 cm  
Cutting edge: 14 mm

**No. 14171-10**

## Standard Pattern

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.



14001-12 – 14001-18






14008-14



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

| Length<br>(cm) | Cutting edge<br>(mm) |  Curved<br>Sharp / Sharp |  Curved<br>Sharp / Blunt |  Curved<br>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  |

## ToughCut® Standard Pattern



14054-13



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**

## Tungsten Carbide Standard Pattern



80% of actual size

**Straight Sharp/Sharp**

14.5 cm  
Cutting edge: 34 mm

**No. 14502-14**



**Curved Sharp/Sharp**

14.5 cm  
Cutting edge: 34 mm

**No. 14505-14**



**Straight Sharp/Blunt**

14.5 cm  
Cutting edge: 34 mm

**No. 14501-14**

**Curved Sharp/Blunt**

14.5 cm  
Cutting edge: 34 mm

**No. 14504-14**

## Standard Pattern with Serrations



80% of actual size

**Straight Sharp/Blunt**

14 cm  
Cutting edge: 30 mm

**No. 14007-14**

**Standard Pattern with  
Large Finger Loops**



80% of  
actual size



**Straight  
Sharp/Blunt**

14.5 cm  
Cutting edge: 30 mm

**No. 14101-14**

**Tungsten Carbide  
Mini-Lister**



**Angled to side  
Blunt/Blunt**

9 cm  
Cutting edge: 14 mm

**No. 14531-09**

**Lister**

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



80% of  
actual size



**Angled to side  
Blunt/Blunt**

14 cm  
Cutting edge: 26 mm

**No. 14131-14**

**Metzenbaum Baby**



70% 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**

14.5 cm

Cutting edge: 22 mm

**No. 14018-14**

14.5 cm

Cutting edge: 22 mm

**No. 14019-14**

18 cm

Cutting edge: 24 mm

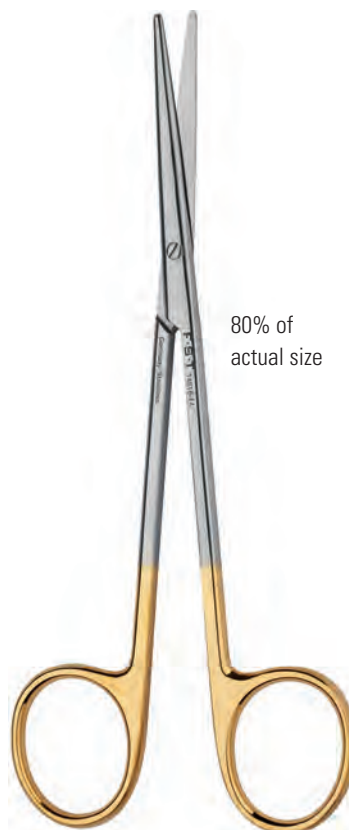
**No. 14018-18**

18 cm

Cutting edge: 24 mm

**No. 14019-18**

**Tungsten Carbide Metzenbaum Fino**



80% of  
actual size



**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**

18 cm

Cutting edge: 24 mm

**No. 14518-18**

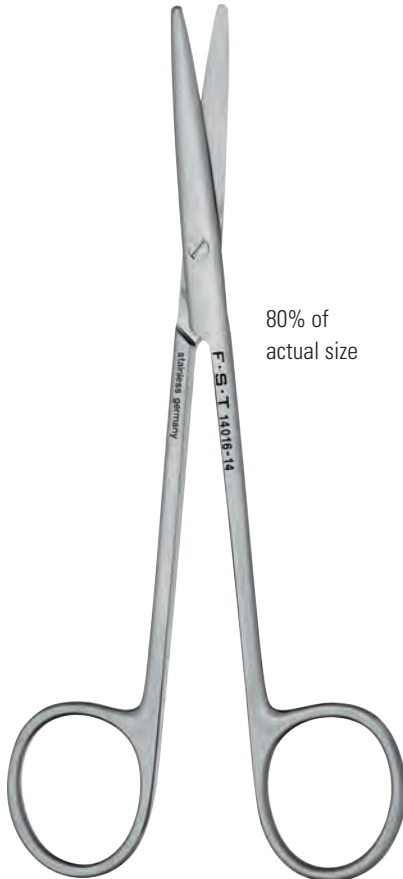
18 cm

Cutting edge: 24 mm

**No. 14519-18**

Metzenbaum

ToughCut® Metzenbaum



80% of  
actual size



80% of  
actual size



**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**

18 cm  
Cutting edge: 24 mm

**No. 14016-18**

18 cm  
Cutting edge: 24 mm

**No. 14017-18**



**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. 14116-18**

18 cm  
Cutting edge: 24 mm

**No. 14117-18**



**Mayo**

**ToughCut® Mayo**

**Tungsten Carbide Mayo**



14512-15 & 14512-17



80% of  
actual size



80% of  
actual size



80% 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**

15 cm

Cutting edge: 28 mm

**No. 14110-15**



**Curved  
Blunt/Blunt**

15 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**

17 cm

Cutting edge: 32 mm

**No. 14010-17**

17 cm

Cutting edge: 32 mm

**No. 14011-17**

17 cm

Cutting edge: 32 mm

**No. 14110-17**

17 cm

Cutting edge: 32 mm

**No. 14111-17**

17 cm

Cutting edge: 32 mm

**No. 14510-17**

17 cm

Cutting edge: 32 mm

**No. 14511-17**

17 cm

Cutting edge: 32 mm

**No. 14512-17**

## Mayo-Stille

80% of  
actual size**Straight  
Blunt/Blunt**15 cm  
Cutting edge: 28 mm**No. 14012-15****Curved  
Blunt/Blunt**15 cm  
Cutting edge: 28 mm**No. 14013-15**

17 cm

Cutting edge: 32 mm

**No. 14012-17**

17 cm

Cutting edge: 32 mm

**No. 14013-17**

## Mayo-Noble

80% of  
actual size**Straight  
Blunt/Blunt**16.5 cm  
Cutting edge: 30 mm**No. 14014-17****Curved  
Blunt/Blunt**16.5 cm  
Cutting edge: 30 mm**No. 14015-17**

## Decapitation Scissors

Stop guard at tips to prevent slippage.

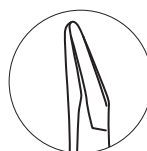
70% of  
actual size**Straight  
Blunt/Blunt**21 cm  
Cutting edge: 50 mm**No. 14200-21**

## Friedmann-Pearson

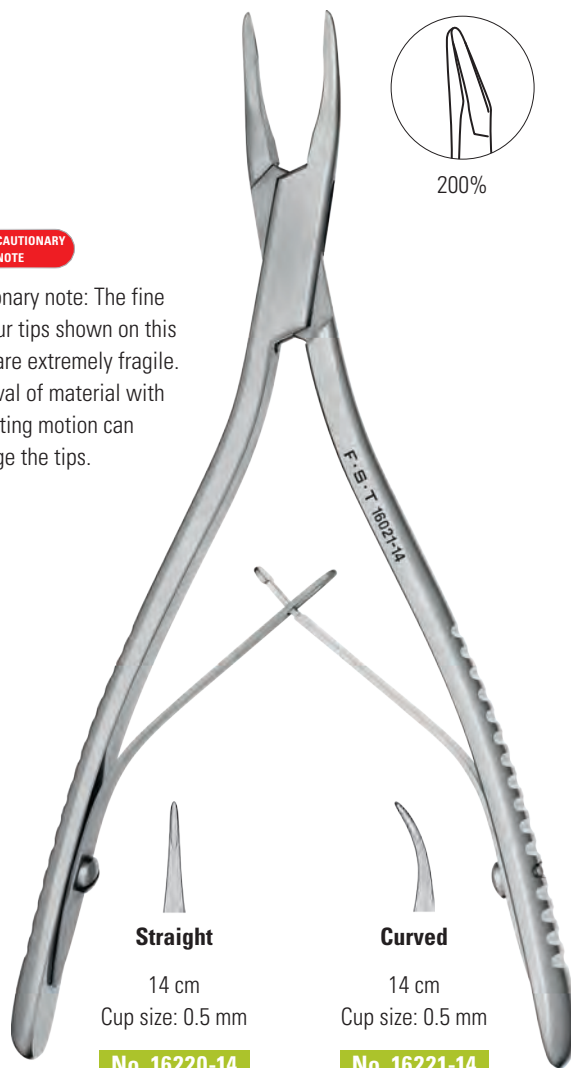
This popular, fine-tipped rongeur is suited for delicate work. The fine-cupped jaws have been designed with a longer and slimmer approach for better visibility.



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



200%



## Straight

14 cm  
Cup size: 0.5 mm

**No. 16220-14**

## Curved

14 cm  
Cup size: 0.5 mm

**No. 16221-14**

14 cm  
Cup size: 0.7 mm

**No. 16120-14**

14 cm  
Cup size: 0.7 mm

**No. 16121-14**

14 cm  
Cup size: 1 mm

**No. 16020-14**

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.



Cautionary note: 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

## RONGEURS

**Baby-Beyer**

Double-action rongeur with strong jaws helps relieve hand strain.

**Straight**

15 cm  
Cup size: 2 mm

**No. 16023-15****Curved**

15 cm  
Cup size: 2 mm

**No. 16022-15**

**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.

**Beyer**

Double-action rongeur with strong jaws helps relieve hand strain.

**Curved**

18 cm  
Cup size: 2.5 mm

**No. 16002-18**

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.

Lempert

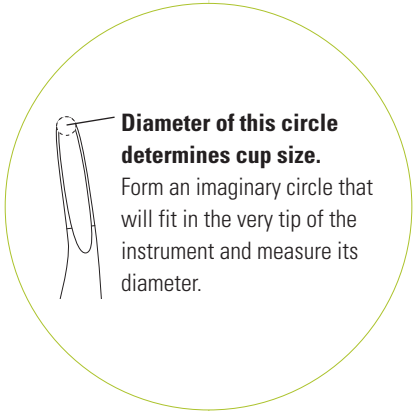
Extra fine jaws.



Curved

13 cm  
Cup size: 2.5 mm

No. 16000-14



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.



Straight

16 cm  
Cup size: 2.5 mm

No. 16004-16

Curved

16 cm  
Cup size: 2.5 mm

No. 16005-16



## CUTTERS

## Bone Trimmers

**Curved**

14 cm  
Cutting edge: 8 mm

**No. 16109-14**

## Cartilage Cutter

Round cutting blades for tissue, cartilage  
and soft bone.

**Curved**

14 cm  
Cutting edge: 9 mm

**No. 16107-14**

**Dumont #15a Bone Cutter**

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.

**F · S · T**  
by DUMONT®



**Angled**

11.5 cm  
Cutting edge: 10 mm  
Jaw Opening: 2.5 mm  
Hard carbon steel

**No. 11215-01**

**Dumont #15ARW Cutter**

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.

**F · S · T**  
by DUMONT®



**Angled**

11.5 cm  
Cutting edge: 6 mm  
Jaw Opening: 2.5 mm  
Epoxy coated carbon steel

**No. 11215-02**

**Tungsten Carbide #15AGHM Cutter**

**Angled**

11.5 cm  
Cutting edge: 10 mm  
Stainless Steel handle with  
Tungsten Carbide tips

**No. 11515-02**

**Bone Nipper****Angled up**

11 cm  
Cutting edge: 5 mm

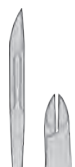
**No. 16102-11****Offset Bone Nipper**

Strong jaws for cutting tough cartilage.

**Angled up**

10 cm  
Cutting edge: 7 mm

**No. 16101-10**

**Malleus Nipper****Straight**

11 cm  
Cutting edge: 9 mm

**No. 16140-11**

**Angled Down**

11 cm  
Cutting edge: 9 mm

**No. 16141-11**

**Angled up**

11 cm  
Cutting edge: 9 mm

**No. 16142-11**

**Bone Cutting Spring Scissors****Straight  
Blunt/Blunt**

13 cm  
Cutting edge: 12 mm

**No. 16144-13**

**Curved  
Blunt/Blunt**

12 cm  
Cutting edge: 12 mm

**No. 16143-12**

**Delicate Bone Cutting Spring Scissors**

Slim, strong blades for cutting fine bones and tissues.

## CUTTERS

## Littauer Bone Cutter



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

## Beebee Bone Scissors

Very strong jaws with sharp points.



Straight

10 cm  
Cutting edge: 15 mm

No. 16044-10

## Tungsten Carbide Bone Scissors

Strong heavy blades for cutting bone.



Straight

12.5 cm  
Cutting edge: 15 mm

No. 16030-12



Straight

16 cm  
Cutting edge: 15 mm

No. 16030-16



**Boehler**

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



**Angled up**

15 cm  
Cutting edge: 18 mm

**No. 16130-15**

**Skull Flap Cutter**

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.



**Angled up**

14 cm  
Cutting edge: 10 mm

**No. 16050-15**

## CUTTERS

## Cleveland Cutter

**Angled up**

15 cm  
Cutting edge: 14 mm

**No. 16106-14**

17 cm  
Cutting edge: 15 mm

**No. 16105-16**

## Listen

Gross anatomy bone cutter.

**Straight**

14 cm  
Cutting edge: 20 mm

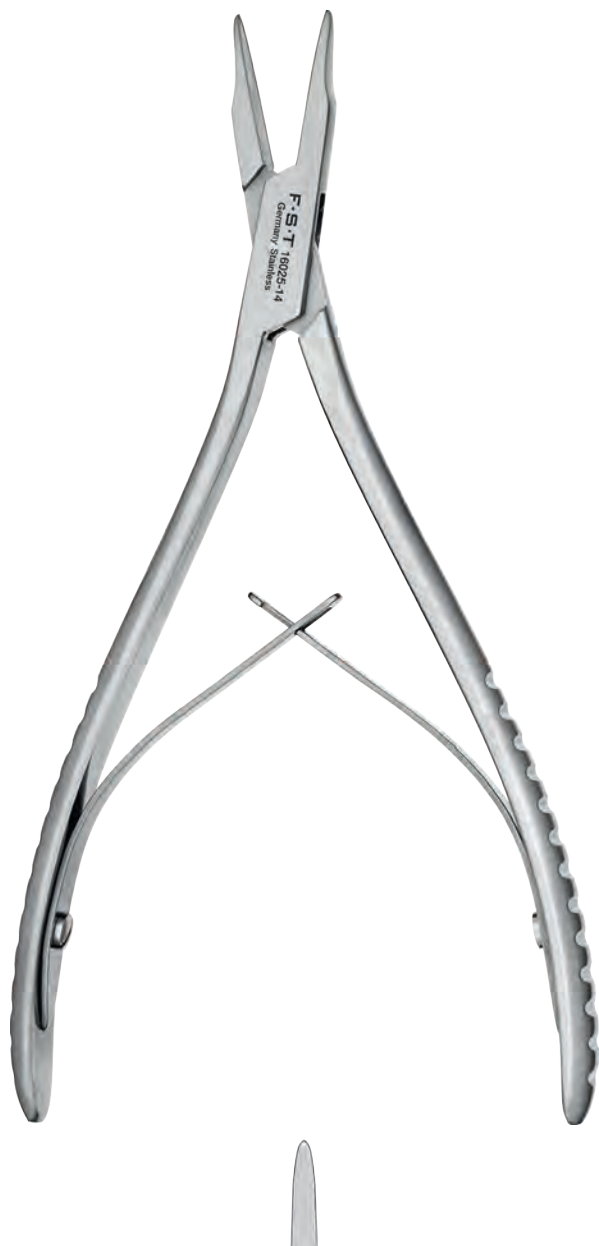
**No. 16104-14**

20 cm  
Cutting edge: 30 mm

**No. 16104-19**

**Bone Pliers**

To peel back skull flaps.



**Straight / Flat  
surface**

15.5 cm

**No. 16025-14**

**Bone Shears**

60% of  
actual size

**Curved**

24 cm  
Cutting edge: 6.5 cm

**No. 16150-24**

**Bone Forceps**

Strong cross-serrated tips for bone crushing and removal.

**Angled**

11.5 cm  
Tip Ø: 1 mm  
Cross serrated

**No. 16060-11**

**Miniature Self-Tapping Bone Screws**

Used extensively to anchor dental cement to bone, these self-tapping screws have superior holding strength over ordinary machine screws. 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 181.

For pre-drilling use our 0.9 mm burrs, see page 181.

**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**

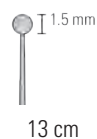
Curette tips consist of a scoop with sharp edges and are used for scraping or cleaning. They can also be used for separating and transporting, inoculating plates or transferring small amounts of chemicals.



No. 10080-05



No. 10081-10



No. 10082-15

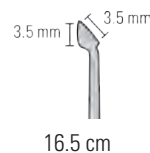


No. 10083-20

Serrations on  
cutting edge

**Delicate Bone Scraper**

For scraping tissue without cutting into bone.



No. 10075-16

**Austin Chisel**

No. 10096-16



No. 10097-16

**Dissecting Chisel**

No. 10095-12

## MICRO KNIVES

**Von 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

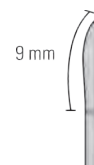
**No. 10055-12**



**Angled 30°**

12.5 cm  
Cutting edge: 4 mm

**No. 10056-12**

**Sichel**

**Curved**

12 cm  
Cutting edge: 9 mm

**No. 10073-14**



**Micro Knife****Straight**

13 cm  
Cutting edge: 28 mm

**No. 10370-13****Micro Knife Side Cut****Side cut**

15 cm  
Cutting edge: 2 mm

**No. 10058-15****Circle Knife**

Sharp cutting edge around tip.

**Round**

16 cm  
Cutting edge: 2 mm

**No. 10059-15**

KNIVES

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.



**CAUTIONARY  
NOTE**

Cautionary note: 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.



Wood Dowel  
**Not autoclavable**

**Straight**

Approximate blade length: 6 mm

**No. 10110-01**



150%

**Straight**

Approximate blade length: 12 mm

**No. 10110-03**



150%

**Straight**

Approximate blade length: 6 mm

**No. 10110-05**



150%

**Angled**

Approximate blade length: 6 mm

**No. 10110-07**

## CERAMIC &amp; DIAMOND KNIVES

## Ceramic Blades

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



## Ceramic Blades

## 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 400x magnification. The retractable handle aids in care and storage.



Cautionary note: This blade is extremely fragile and vulnerable to lateral pressure.



## Cutting angle: 30°

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

No. 10100-30



## 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 Holders and Breakers



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 Carbon Steel Blades

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

**Not autoclavable.**



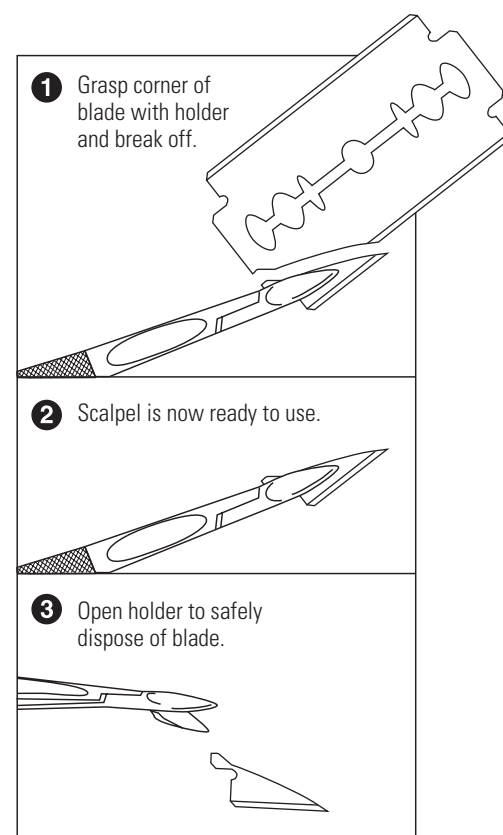
Blade thickness: 0.1 mm

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.



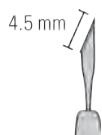
## SCALPELS

## Carbon Steel Scalpel

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



10316-14  
10315-12

**22.5° Cutting angle**

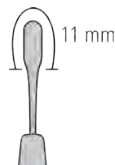
13.5 cm  
Cutting edge: 4.5 mm  
Tip thickness: 0.15 mm

**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 Carbon Steel Blades



Handle for Inter-  
changeable Blades  
9.5 cm

**No. 10035-00**

12.5 cm

**No. 10035-12**

**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**

**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**



**Scalpel Handle #4 with Silicone**

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



13.5 cm

No. 10009-13

**Standard Scalpel Handle #4 Solid**

Especially suitable for large dissections.



13 cm

No. 10004-13

**Blades for #4 Scalpel Handle**

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



Box. of 100 blades

No. 10020-00



Box. of 100 blades

No. 10021-00



Box. of 100 blades

No. 10022-00



Box. of 100 blades

No. 10023-00

## SCALPELS

## #3 Standard



12 cm

No. 10003-12

## #3 Secure

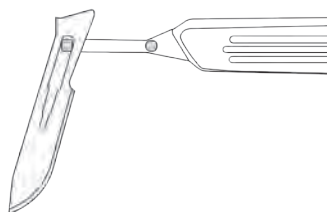
A safety lock holds the blade securely, and allows simple and safe blade attachment and removal.



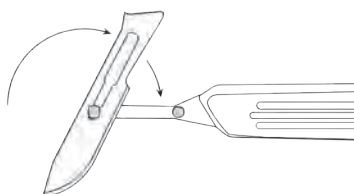
12 cm

No. 10003-13

- 1** Slide blade onto front pin of the handle.



- 2** Then slide pin to front slot of blade. Rotate blade clockwise and secure blade to back pin on handle.



- 3** Scalpel is ready to use.



## 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.**



Box. of 100 blades

No. 10010-00



Box. of 100 blades

No. 10011-00



Box. of 100 blades

No. 10012-00



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**

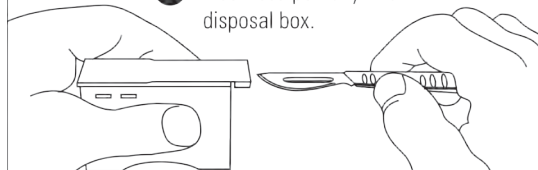
This plastic device will remove used scalpel blades safely and retain them for safe disposal. Can be used for blades that fit the #3, #4, #7 and Gross Anatomy handles.

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

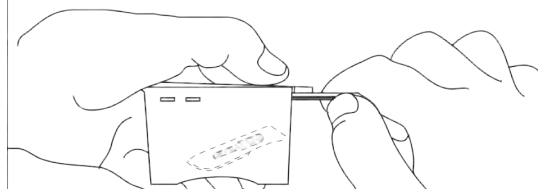
**No. 10002-50**

**Your fingers will never come in contact with the blade.**

- 1 Insert scalpel fully into disposal box.



- 2 Press down on disposal box cover.
- 3 Withdraw scalpel handle.



SCALPELS

Gross Anatomy Blade and Handle



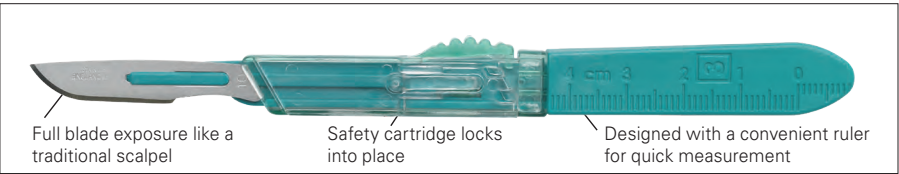
7.5 cm  
Box of 100 blades  
**No. 10060-00**



**No. 10060-13**

Disposable Safety Scalpels

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



#10 scalpels  
Pkg. of 10 blades  
**No. 10000-10**



#11 scalpels  
Pkg. of 10 blades  
**No. 10000-11**



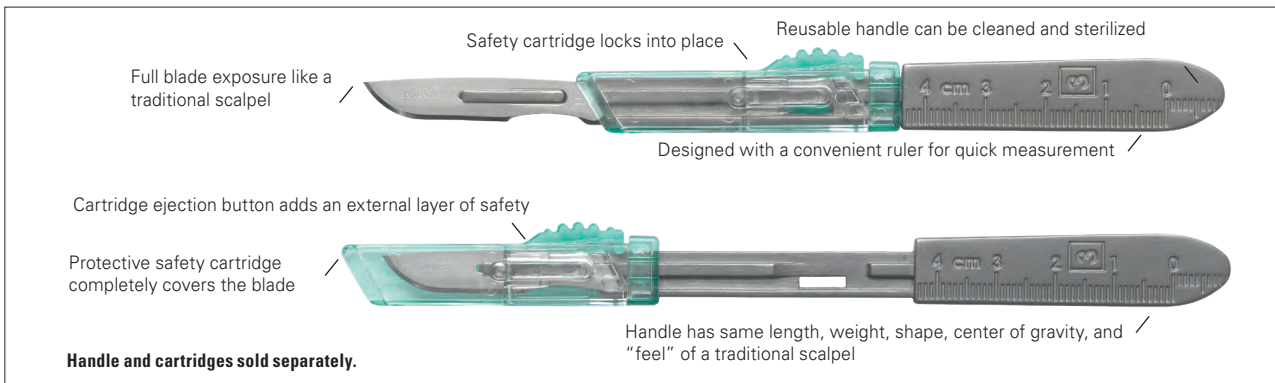
#15 scalpels  
Pkg. of 10 blades  
**No. 10000-15**



Scalpel shown with safety cartridge closed and locked into place.

### 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.**



### Safety Scalpel Handle #3



12.5 cm  
Teflon coated Stainless Steel

**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

79 – 88

Fine

89 – 99

Moria

92 – 93, 95

S&T

94, 96

Standard

100 – 111

Hemostats

112 – 117

Vascular Instruments

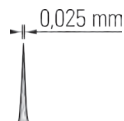
118 – 127





### Dumont #5SF

The finest tips ever produced by Dumont.



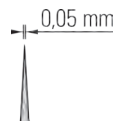
**Super fine**

11 cm  
Inox  
0.025 x 0.005 mm

**No. 11252-00**

### Dumont #5 Fine Tips

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



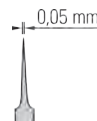
**Biology**

11 cm  
Inox  
0.05 x 0.01 mm

**No. 11254-20**

### Dumont #5 Ceramic Coated

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



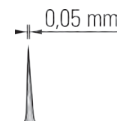
**Biology**

11 cm  
Ceramic coated Inox  
0.05 x 0.01 mm

**No. 11252-50**

### Dumont #5CO

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



**Biology**

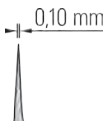
11 cm  
Dumostar  
0.05 x 0.01 mm

**No. 11295-20**

Dumont Medical Micro-Blunted  
Atraumatic Tipped Forceps

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.

FORCEPS/TWEEZERS

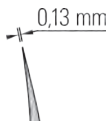


**Medical #5**

Standard  
Straight

11 cm  
Inox  
0.1 x 0.06 mm

No. 11253-20



**Medical #5A**

Standard  
Off-Center

11.5 cm  
Inox  
0.13 x 0.08 mm

No. 11253-21



**Medical #7S**

Standard  
Curved

12 cm  
Inox  
0.17 x 0.1 mm

No. 11273-22

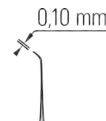


**Medical #7**

Standard  
Curved

11.5 cm  
Inox  
0.17 x 0.1 mm

No. 11273-20



**Medical #5/45**

Standard  
Angled 45°

11 cm  
Inox  
0.1 x 0.06 mm

No. 11253-25



**Medical #5/90**

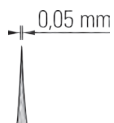
Standard  
Angled 90°

11 cm  
Inox  
0.1 x 0.06 mm

No. 11253-29

### Dumont #55

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



**Biology**

11 cm  
Inox  
0.05 x 0.02 mm

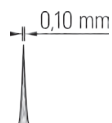
**No. 11255-20**

11 cm  
Dumostar  
0.05 x 0.02 mm

**No. 11295-51**

### Dumont #5 Mirror Finish Forceps

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  
Inox  
0.1 x 0.06 mm

**No. 11251-23**



**Biology**

11 cm  
Inox  
0.05 x 0.02 mm

**No. 11252-23**

### Dumont #5

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



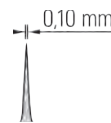
11251-20  
11252-20



11252-40



11251-10



**Standard**

11 cm  
Inox  
0.1 x 0.06 mm

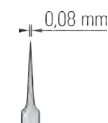
**No. 11251-20**

Dumoxel

**No. 11251-30**

Dumostar

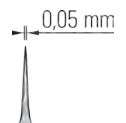
**No. 11295-00**



**Standard**

11 cm  
Carbon steel  
0.08 x 0.04 mm

**No. 11251-10**



**Biology**

11 cm  
Inox  
0.05 x 0.02 mm

**No. 11252-20**

Dumoxel

**No. 11252-30**

Dumostar

**No. 11295-10**

Titanium

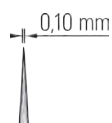
**No. 11252-40**

**Dumont WA #5**

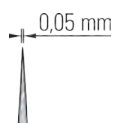
These specially designed forceps offer improved stability with an ergonomic body that allows the forceps to fit more comfortably in your hand. A domed end with no soldering grooves allows the forceps to be thoroughly and easily cleaned, preventing biofilm residues.



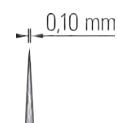
Side View

**Standard**

12 cm  
Inox  
0.10 x 0.06 mm

**No. 11251-21****Biology**

12 cm  
Inox  
0.05 x 0.02 mm

**No. 11252-21****Dumont #5XL****Standard**

15 cm  
Inox  
0.1 x 0.06 mm

**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.



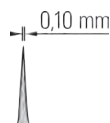
**Standard**

11 cm  
Inox  
0.1 x 0.06 mm

**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.



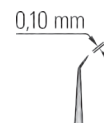
**Standard**

11 cm  
Teflon coated Inox  
0.1 x 0.06 mm

**No. 11626-11**

### Dumont #5/45

45° tips for improved visibility and control.



**Standard**

11 cm  
Dumoxel  
0.1 x 0.06 mm

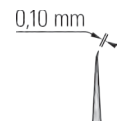
**No. 11251-35**

### Dumont #5/45 Cover Slip Forceps

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



300%



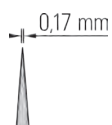
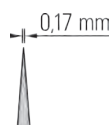
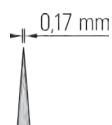
**1 mm from tip to bend**

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

**No. 11251-33**

**Dumont #3**

Tapered and sturdy shanks.

**Standard**12 cm  
Dumoxel  
0.17 x 0.1 mm**No. 11231-30****Standard**12 cm  
Dumostar  
0.17 x 0.1 mm**No. 11293-00****Dumont #3c****Standard**11 cm  
Inox  
0.17 x 0.1 mm**No. 11231-20****Dumont #6**

Sharply angled tips for access to difficult areas.

**Standard**11.5 cm  
Inox  
0.17 x 0.1 mm**No. 11260-20**



**Dumont #7  
Fine Tips**

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



**Biology**

11.5 cm  
Inox  
0.07 x 0.03 mm

**No. 11274-20**

**Dumont #7**



11272-40



**Biology**

11.5 cm  
Dumoxel  
0.07 x 0.04 mm

**No. 11272-30**

Dumostar

**No. 11297-10**

Titanium

**No. 11272-40**

**Dumont #7  
Ceramic Coated**



**Biology**

11.5 cm  
Ceramic coated Inox  
0.07 x 0.04 mm

**No. 11272-50**

**Dumont #7B**



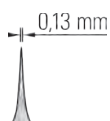
**Standard**

11.5 cm  
Inox  
0.17 x 0.1 mm

**No. 11270-20**

**Dumont #4**

Similar to #5, but with broader shanks.

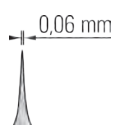
**Standard**

11 cm  
Dumoxel  
0.13 x 0.08 mm

**No. 11241-30**

Dumostar

**No. 11294-00**

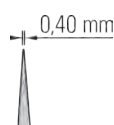
**Biology**

11 cm  
Dumoxel  
0.06 x 0.04 mm

**No. 11242-40**

**Dumont #2  
Laminectomy Forceps**

These forceps can be used to break off delicate bone during mouse laminectomies, as well as fine skull bone removal.

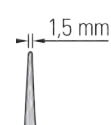
**Standard**

12 cm  
Inox  
0.4 x 0.02 mm

**No. 11223-20**

**Dumont #2AP  
Epoxy Coated**

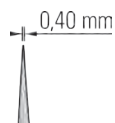
Provides good insulation for up to 220 AC voltage work and highly impervious to chemical solutions. Frozen or super cold sections will not adhere to the gripping surfaces.

**Standard**

12 cm  
Epoxy coated Inox  
1.5 x 0.7 mm

**No. 11220-21**

## Dumont AA



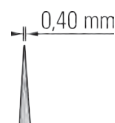
**Standard**

12.5 cm  
Inox  
0.4 x 0.2 mm

**No. 11210-20**

## Dumont AA Epoxy Coated

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



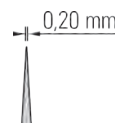
**Standard**

12.5 cm  
Epoxy coated Inox  
0.4 x 0.2 mm

**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**

13.5 cm  
Inox  
0.2 x 0.12 mm

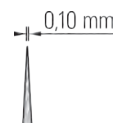
**No. 11203-23**



**Standard  
Angled 45°**

13.5 cm  
Inox  
0.2 x 0.12 mm

**No. 11203-25**



**Biology**

13.5 cm  
Dumoxel  
0.1 x 0.06 mm

**No. 11200-33**

## Dumont Mini Forceps

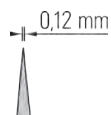
## Dumont #2E Components Forceps

## Dumont #5AC

FORCEPS/TWEEZERS



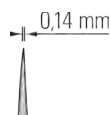
300%



**Mini #3  
Standard**

7 cm  
Inox  
0.12 x 0.07 mm

No. 11200-10



**Mini #4  
Standard**

7 cm  
Inox  
0.14 x 0.06 mm

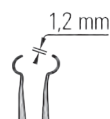
No. 11200-12



**Mini #5  
Standard**

8.2 cm  
Inox  
0.09 x 0.05 mm

No. 11200-14



**For components**

11.5 cm  
Dumoxel  
8 x 1.2 mm

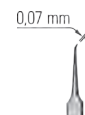
No. 11229-08



**For components**

11.5 cm  
Dumoxel  
10 x 1.2 mm

No. 11229-10



**Type #5 Anti-Capillary  
Biology**

11.5 cm  
Inox  
0.07 x 0.02 mm

No. 11258-20

**Gold Plated Forceps**

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.

**Straight**

11 cm  
Gold plated  
Stainless Steel  
0.1 x 0.06 mm

**No. 11915-11****Curved**

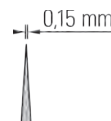
12 cm  
Gold plated  
Stainless Steel  
0.2 x 0.1 mm

**No. 11917-12****Angled 30°**

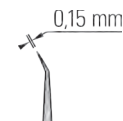
11 cm  
Gold plated  
Stainless Steel  
0.1 x 0.06 mm

**No. 11911-11****Diamond Coated Forceps**

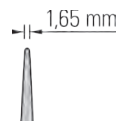
Diamond coating provides increased corrosion resistance and greater protection from wear and tear, which extends the operational life of the forceps, as well as providing a stronger grip at the tips.

**Straight**

14 cm  
Diamond coated  
Stainless Steel  
0.15 x 0.1 mm

**No. 11990-14****Angled 30°**

14 cm  
Diamond coated  
Stainless Steel  
0.15 x 0.1 mm

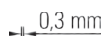
**No. 11991-14****Straight**

12 cm  
Diamond coated  
Stainless Steel  
1.65 x 0.05 mm

**No. 11992-12**

### Mirror Finish Broad Shanks

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.



**Straight**

13 cm  
0.3 x 0.15 mm

**No. 11923-13**

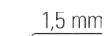
### #2A Forceps



**Straight**

12 cm  
1.5 x 0.13 mm

**No. 11992-20**



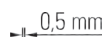
**Curved**

13 cm  
1.5 x 0.1 mm

**No. 11972-20**

### Forceps with Replaceable Tips

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.



**Straight**

13 cm  
0.5 x 0.5 mm

Stainless Steel 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  
0.5 x 0.5 mm

**No. 11988-02**



Pkg. of 2 tips and 3 screws  
Replacement plastic tips

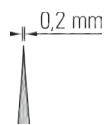
**Curved / Very fine**

4 cm  
0.5 x 0.5 mm

**No. 11988-03**

### Fine Forceps Broad Shanks

Straight forceps with sturdy coarse tips.



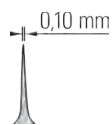
**Straight**

12 cm  
0.2 x 0.12 mm

**No. 11445-12**

### Fine Forceps Mirror Finish

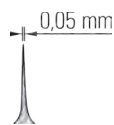
The last 5 mm on the inside of the tips are highly polished to help prevent tissue from sticking. Ideal for embryos, nerves or other adhesive tissue.



**Straight**

11 cm  
0.1 x 0.06 mm

**No. 11412-11**



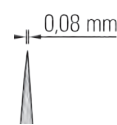
**Straight**

11 cm  
0.05 x 0.02 mm

**No. 11413-11**

### Fine Forceps Self-Closing

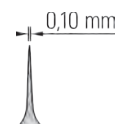
Ideal for lifting and holding EM grids. Consistent pressure at tips. Correctly tensioned "cross-over" shanks come to a microscopically matched point



**Straight**

11.5 cm  
0.08 x 0.04 mm

**No. 11480-11**



**Straight**

11 cm  
0.1 x 0.06 mm

**No. 11485-11**



**Curved**

11.5 cm  
0.2 x 0.12 mm

**No. 11487-11**

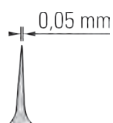


## Moria Ultra Fine Forceps

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.



Moria MC40



Straight

11 cm  
0.05 x 0.01 mm

No. 11370-40

Moria MC40/B



Curved

11 cm  
0.05 x 0.01 mm

No. 11370-42



Moria 9980

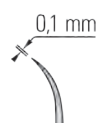


Straight

13 cm  
0.1 x 0.06 mm

No. 11399-80

Moria 9987



Curved

13 cm  
0.1 x 0.06 mm

No. 11399-87

## Moria Iris Forceps

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



Moria MC32/B



**Straight**  
Smooth

10 cm  
0.5 x 0.3 mm

No. 11373-22

Moria MC31/B

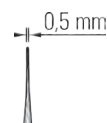


**Curved**  
Smooth

10 cm  
0.5 x 0.4 mm

No. 11373-12

Moria MC32



Serrated

No. 11370-32

Moria MC31



Serrated

No. 11370-31

Moria Bonn Forceps



11383-56



Moria 7835



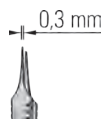
**Straight**

Tying platform with  
1x2 teeth

7.5 cm  
Tip width: 0.3 mm  
Tying platform: 4 mm  
Stainless Steel

No. 11383-50

Moria T17835



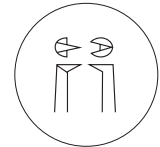
**Straight**

Tying platform with  
1x2 teeth

7.5 cm  
Tip width: 0.3 mm  
Tying platform: 4 mm  
Titanium

No. 11383-56

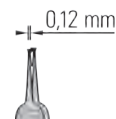
Moria Paufigue Forceps



20x magnification



Moria 3225



**Straight**

Tying platform with  
1x2 teeth

8.5 cm  
Tip width: 0.12 mm  
Tying platform: 5 mm  
Stainless Steel

No. 11390-25

## Fine Forceps



**Straight  
Standard**

11 cm  
0.3 x 0.25 mm

**No. 00108-11**



**Angled 45°  
Standard**

11 cm  
0.3 x 0.25 mm

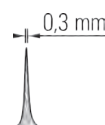
**No. 00109-11**

## SuperGrip Forceps

The tips are processed with MicroCrystals®, a method developed by S&T® to infuse tungsten carbide on 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.



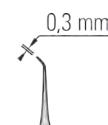
300%  
The gripping surface is  
similar to a match head.



**Straight  
SuperGrip**

11 cm  
0.3 x 0.25 mm

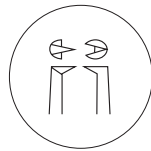
**No. 00632-11**



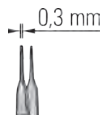
**Angled 45°  
SuperGrip**

11 cm  
0.3 x 0.25 mm

**No. 00649-11**

**Bonn**

20x magnification

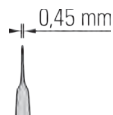
**Straight**

Smooth with platform

7 cm

Tip width: 0.3 mm

Tying platform: 5 mm

**No. 11083-07****Straight**

1x2 Teeth

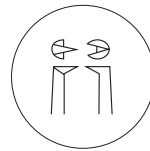
7 cm

Tip width: 0.3 mm

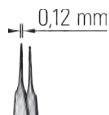
Teeth width: 0.1 mm

**No. 11084-07****Mirror Finish Bonn Forceps**

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.



20x magnification

**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

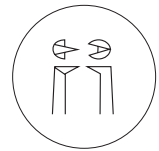
10.5 cm

Tip width: 0.3 mm

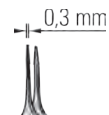
Tying platform: 5 mm

**No. 11093-10****Mirror Finish Suture Tying Forceps with Teeth**

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



20x magnification

**Straight**Tying platform with  
1x2 teeth

9 cm

Tip width: 0.3 mm

Tying platform: 6 mm

**No. 11090-09**

**Moria Suture Tying Forceps**

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 9604****Straight**

Smooth with platform

9.5 cm

Tip Ø: 0.3 mm

Tying platform: 8 mm

No. 11393-04

**Moria 9605****Curved**

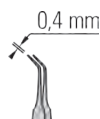
Smooth with platform

8.5 cm

Tip Ø: 0.3 mm

Tying platform: 7.5 mm

No. 11393-05

**McPherson Forceps****Angled 45°**

Smooth with platform

9 cm

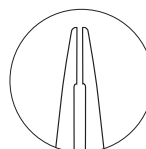
Tip Ø: 0.4 mm

Tying platform: 6 mm

No. 11063-07

**Suture Tying Forceps**

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

**Straight**

Smooth with platform

13.5 cm

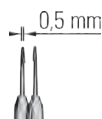
Tip Ø: 0.3 mm

Tying platform: 6 mm

No. 00272-13

**Suture Tying Forceps**

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

**Straight**

Smooth with platform

10 cm

Tip Ø: 0.5 mm

Tying platform: 5 mm

No. 18025-10

**Round Handled Suture Tying Forceps**

Round handles allow easy fingertip adjustments.



**Curved**

Smooth with platform

10.5 cm

Tip Ø: 0.35 mm

Tying platform: 5.5 mm

**No. 18026-10**

**Vial Forceps**

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

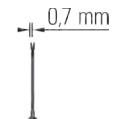


**Straight**

15 cm

Tip Ø: 0.5 mm

**No. 11006-15**

**Vitro Grasping Forceps**

**Straight**

Serrated

14 cm

Tip Ø: 0.7 mm

**No. 11900-14**

### Graefe Forceps



The length of all forceps is 7 cm  
The dimensions of all tips are 0.6 x 0.5 mm



**Straight**  
Serrated

**No. 11064-07**



**Curved**  
Serrated

**No. 11065-07**



**Straight**  
1x2 Teeth

**No. 11066-07**

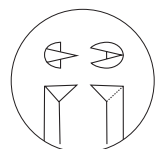


**Curved**  
1x2 Teeth

**No. 11067-07**

### Bishop-Harman

Extra light, fenestrated handles ensure a good grip.



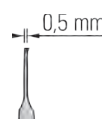
10x magnification

The length of all forceps is 8.5 cm  
The dimensions of all tips are 0.5 x 0.5 mm



**Straight**  
Serrated

**No. 11069-08**



**Straight**  
1x2 Teeth

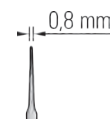
**No. 11070-08**

### Octagon Forceps

The octagon shaped grip provides a particularly secure finger hold.



The length of all forceps is 9.5 cm  
The dimensions of all tips are 0.8 x 0.5 mm



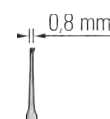
**Straight**  
Serrated

**No. 11040-08**



**Curved**  
Serrated

**No. 11041-08**



**Straight**  
1x2 Teeth

**No. 11042-08**



**Curved**  
1x2 Teeth

**No. 11043-08**



## Extra Fine Graefe Forceps



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



**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

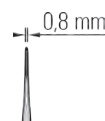
## Graefe Forceps



11051-10  
11054-10



11650-10 – 11652-10



**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

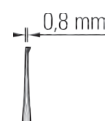
No. 11052-10



**Angled**  
Serrated

0.8 x 0.7 mm

No. 11049-10



**Straight**  
1x2 Teeth

0.8 x 0.7 mm

No. 11053-10



**Slightly curved**  
1x2 Teeth

0.8 x 0.7 mm

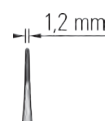
No. 11054-10



**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



**Sliding Lock Forceps**

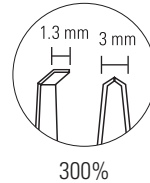
**Straight**  
Smooth

11 cm  
1 x 0.75 mm

**No. 11062-10**

**Episcleral Forceps**

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.



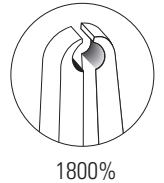
**Straight**  
Arched

10 cm  
1.3 x 3 x 0.2 mm

**No. 11071-10**

**Pierse Fixation Forceps**

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



Tissue retention  
hole of 0.3 mm  
behind tips.

**Straight**  
0.3 mm Hole

13 cm  
1 x 0.5 mm

**No. 18155-13**

**Plastic Forceps**

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.



**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**



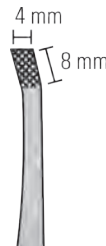
**Curved**  
Blunt

11.5 cm  
1.5 x 0.4 mm

**No. 11700-04**

**Cross Action Forceps**

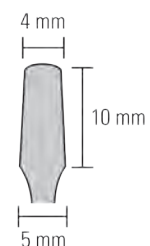
These tissue transport forceps have a gentle action.



**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.



**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

**Circle Forceps**

Cupped forceps for atraumatic gripping of organs and tissues.

**Live Insect Handling Forceps**

Very delicate.



**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

**Micro-Adson**

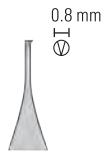
Our most delicate version of the popular Adson forceps.



**Straight**  
Serrated

12 cm  
0.8 x 0.9 mm

**No. 11018-12**



**Straight**  
1x2 Teeth

12 cm  
0.8 x 0.9 mm

**No. 11019-12**

**Micro-Adson with Fenestrated Handle**

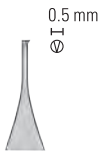
Our delicate Micro-Adson forceps, with five windows to aid in stability and easy finger adjustments.



**Straight**  
Serrated

12 cm  
0.8 x 1 mm

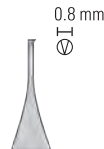
**No. 11020-12**



**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**

**Adson**

Wide, strong grip with narrow tips.



11006-12  
11027-12



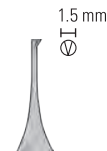
11506-12



**Straight**  
Serrated

12 cm  
1.5 x 1 mm

**No. 11006-12**



**Straight**  
1x2 Teeth

12 cm  
1.5 x 0.8 mm

**No. 11027-12**

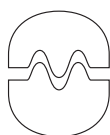


**Straight**  
Cross Serrated  
Tungsten Carbide

12 cm  
1.5 x 1.3 mm

**No. 11506-12**

## Adson DeBakey


**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**

**Standard Pattern**

Broad pattern with strong spring action.



**Straight**  
Serrated

| Length<br>(cm) | Tip width<br>(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<br>(cm) | Tip width<br>(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 |

**Narrow Pattern**

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



11602-14



**Straight**  
Serrated

| Length<br>(cm) | Tip width<br>(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<br>(cm) | Tip width<br>(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 |



**Semken**

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



11608-15



**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 mm  
Tip width: 1.3 mm

No. 11024-12

**DeBakey Round Handle Forceps**

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**

Suture tying platform

14.5 cm

Tip Ø: 0.1 mm

**No. 18601-15**



#### **Straight**

Suture tying platform

15 cm

Tip Ø: 0.3 mm

**No. 18602-15**



#### **Angled**

Smooth

14.5 cm

Tip Ø: 0.2 mm

**No. 18603-14**

Tissue Forceps



**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

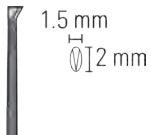
Tissue Forceps

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



**Curved**  
1x2 Teeth / Narrow  
14 cm

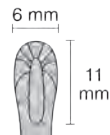
No. 11029-14

**Gillies****Straight**

1x2 Teeth &amp; cross serrated

15 cm  
1.5 x 2 mm**No. 11028-15****Russian**

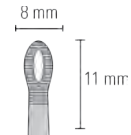
Special cupped pattern for superior grip.

**Straight**

Cupped teeth

15 cm  
6 x 11 mm**No. 11026-15****Organ Holding Forceps**

With limit screw to prevent excessive applied pressure.

**Straight**

Serrated

14.5 cm  
8 x 11 mm**No. 11031-15**

London Forceps



**Angled**  
Serrated

16 cm  
1 x 0.9 mm

**No. 11080-02**

Titanium Forceps



**Straight**  
Serrated

16 cm  
0.3 x 0.5 mm

**No. 11602-16**

Gerald Forceps



**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 Forceps**

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 Forceps**

**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**

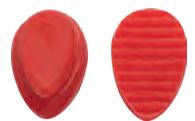
**Mouse Handling Forceps**

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



21 cm  
Forceps with serrated  
silicone tips  
Gripping surface:  
15 x 20 mm

**No. 11036-20**



Replacement silicone tips  
Pkg. of 2 tips

**No. 11036-90**

Ultra Fine Hemostat



**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 cm  
Tip width: 1 mm

**No. 13010-12**



**Curved  
Serrated**

12 cm  
Tip width: 1 mm

**No. 13011-12**



**Angled 90°  
Serrated**

12 cm  
Tip width: 1 mm

**No. 13012-12**

## Halsted-Mosquito



13008-12



13108-12  
13109-12



**Straight  
Serrated**

12.5 cm  
Tip width: 1.3 mm

**No. 13008-12**

Left handed

**No. 13108-12**



**Curved  
Serrated**

12.5 cm  
Tip width: 1.3 mm

**No. 13009-12**

Left handed

**No. 13109-12**

Crile



**Straight  
Serrated**

14 cm  
Tip width: 1.5 mm

**No. 13004-14**



**Curved  
Serrated**

14 cm  
Tip width: 1.5 mm

**No. 13005-14**

Kelly



**Straight  
Serrated**

14 cm  
Tip width: 1.5 mm

**No. 13018-14**



**Curved  
Serrated**

14 cm  
Tip width: 1.5 mm

**No. 13019-14**

## Baby-Mixer

## Providence-Hospital



**Curved  
Serrated**

14 cm  
Tip width: 1.3 mm

**No. 13013-14**



**Straight  
Serrated**

14 cm  
Tip width: 1.5 mm

**No. 13014-14**



**Curved  
Serrated**

14 cm  
Tip width: 1.5 mm

**No. 13015-14**

Hartmann



13003-10



**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 Clamp**

Tissue and organ holding forceps.



**Straight  
5x6 Teeth**

15 cm  
Tip width: 4 mm

**No. 11091-15**



**Straight  
4x5 Teeth**

12 cm  
Tip width: 3 mm

**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**

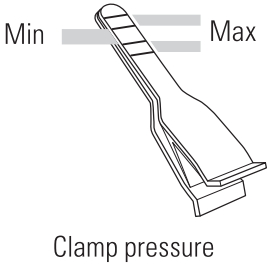
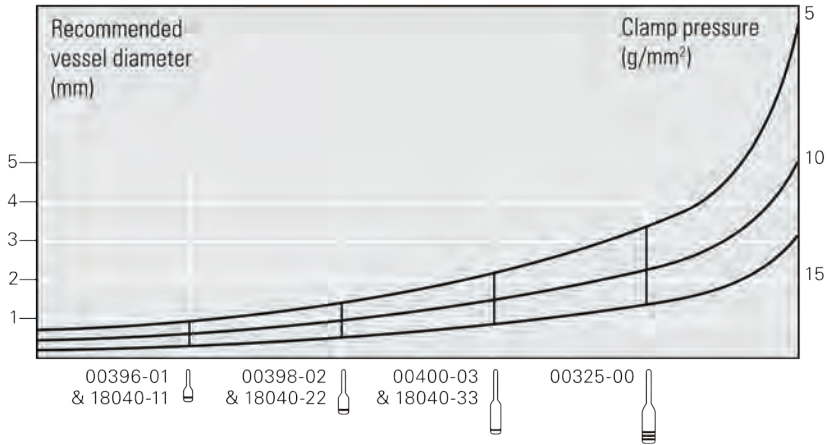
MICRO CLAMPS

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 5g/mm2 when used on the largest vessel in its range, and 15g/mm2 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

Double Micro Clamps

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 Clamp Applying Forceps

S&T®



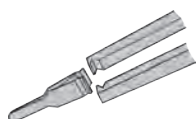
14 cm

Only compatible with  
S&T Micro Clamps  
Lock: Yes

No. 00071-14

Lock: No

No. 00072-14



Micro Clamp Applying Forceps

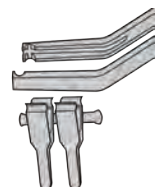
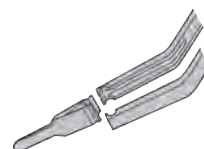


14.5 cm

Compatible with S&T Micro Clamps  
and Double Micro Clamps.

Lock: No

No. 18040-14





## CLAMPS

### Micro Clip Applicator with Lock



14 cm

For use with FST 18055 and 18555 series micro serrefines.

Lock: Yes

No. 18056-14

### Forceps Style Clip Applicator

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



14 cm

For use with FST 18055 and 18555 series micro serrefines.

Lock: No

No. 18057-14

### Biemer Clip Applicator (Forceps Style)

Application forceps for Biemer clamps made of surgical stainless steel.



14 cm

For use with FST 18058 (Biemer Clip) series

Lock: No

No. 18059-14

### Stainless Steel Micro Serrefines

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



Micro Serrefines should never be compressed with fingers; use only the appropriate applicator No. 18056-14 or No. 18057-14.

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                | 85               | No. 18055-05 |
| 4 x 0.75           | 16                | 85               | No. 18055-06 |



### Titanium Micro Serrefines

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 |





### Moria Vessel Clamp

Straight

33 mm

Serrated: Yes

Light pressure

Jaw dimensions: 13 x 1.6 mm



Moria 201/A

**No. 18320-11**

### Moria Bulldog Type Clamps

53 mm

Serrated: No

Strong pressure

Jaw dimensions: 16 x 2.5 mm



Straight

Moria MC43

**No. 18374-43**



Curved

Moria MC44

**No. 18374-44**

### Bulldog Artery Spring Clamp

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



Straight

30 mm

Serrated: Yes

Light pressure



**No. 18144-30**

### Dietrich Bulldog Clamps

Serrated: Yes

Closing pressure: 50 g



Straight

52.5 mm

**No. 18038-45**



Angled

50 mm

**No. 18039-45**

### Bulldog Type Serrefines

Serrated: Yes

Straight

28 mm

Medium pressure



**No. 18050-28**

Curved

28 mm

Medium pressure



**No. 18051-28**

Straight

35 mm

Strong pressure



**No. 18050-35**

Straight

50 mm

Strong pressure



Curved

35 mm

Strong pressure



**No. 18051-35**

Curved

50 mm

Strong pressure

**No. 18051-50**

### Schwartz Micro Serrefines

Serrated: No  
Strong pressure  
26 mm



Straight

**No. 18052-01**



Light bend

**No. 18052-02**



Sharp bend

**No. 18052-03**



### Biemer Clip

Serrated: Yes

Straight

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

15 mm

Clamping Length: 6 mm

**No. 18058-15**



18 mm

Clamping Length: 9 mm

**No. 18058-18**



### Mini Serrefines

28 mm

Medium pressure

Serrated: Yes

Jaw dimensions: 6 x 2 mm

Straight

**No. 18054-28**



Curved

**No. 18053-28**



**Horizon™ Metal Ligation System**

The Horizon™ System provides surgeons with a strong, secure clip coupled with an efficient, convenient easy-load cartridge system. The preformed chevron shape of the Horizon™ Clip engulfs tissue with precise tip-to-tip closure. Heart-shaped wire is designed to give each clip a firm grip on vessels, while the triangulated cross-section of the clip leg maximizes surface-to-surface contact between clip and jaw, practically eliminating clip fallout.



Horizon™  
Ligation Clips

1.98 x 2.87 mm  
Pkg. of 6 Clips  
Sterile: No

**No. 18070-10**

Horizon™  
Clip Remover

Straight  
16.5 cm

**No. 18073-00**



Horizon™  
Ligation Applicator

Curved  
20 cm

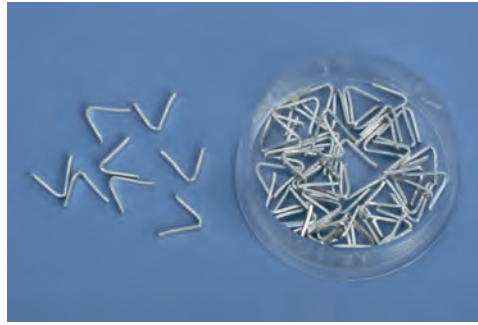
**No. 18070-00**

## Silver Neuro Clips

These single-use, silver neuro clips are meant for permanent vessel occlusion.

Pkg. of 100 clips

No. 18040-00



## 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

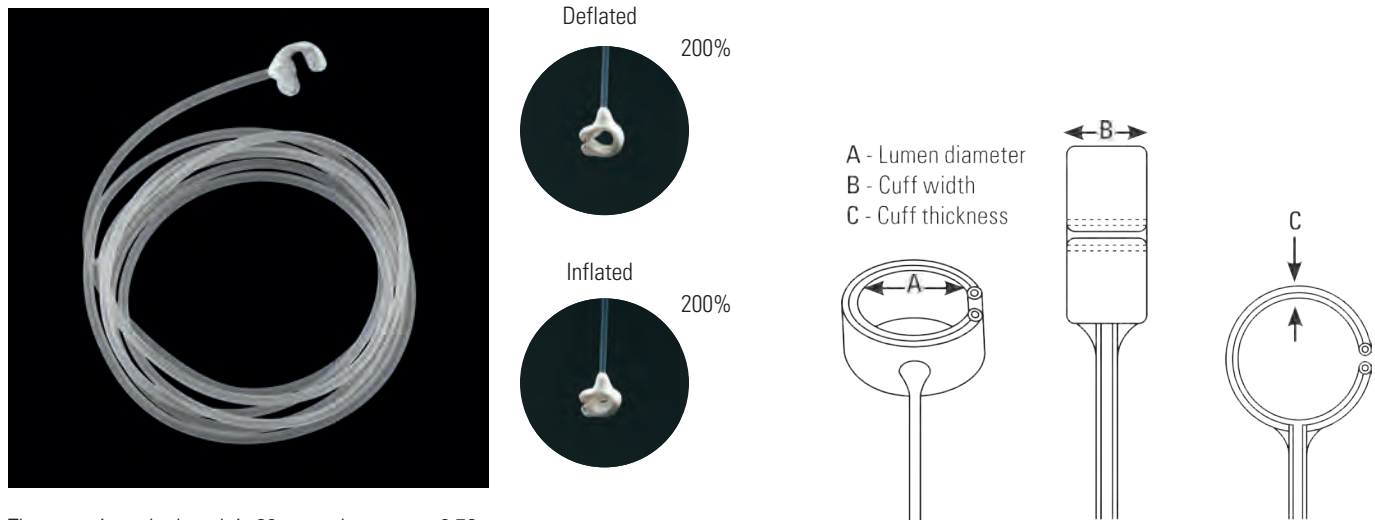
1. Apply the occluder cuff around the exposed blood vessel. Secure it in place with suture material through the eyelets.
2. Occlude the vessel to the desired degree by inflating the diaphragm with air or liquid injected into the actuating tube using a syringe and blunt needle. Clamp the tubing to maintain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

## 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.



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

## Vessel Dilators

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

S&amp;T®

S&amp;T®



Angled 10°

11 cm  
Tip Ø: 0.1 mm

No. 00126-11



Tip Ø: 0.2 mm

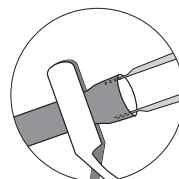
No. 00125-11



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

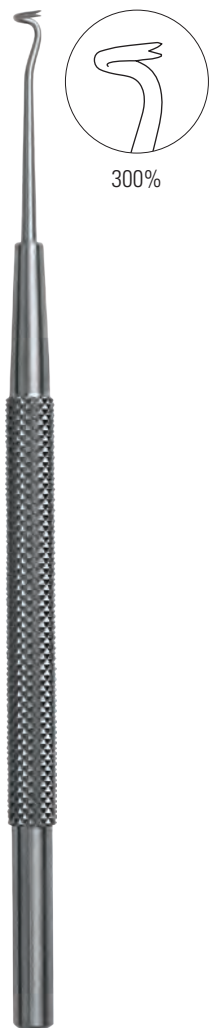


Tip Ø: 0.2 mm

No. 18132-12

**V-Hook**

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



300%



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.



300%

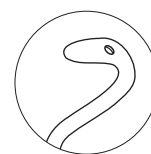


10.5 cm

Hole Ø: 0.4 mm

**No. 18062-12**

200%



200%



13.5 cm

Hole Ø: 1 mm

**No. 18062-13**

13.5 cm

Hole Ø: 1 mm

**No. 18063-13**

### 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 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

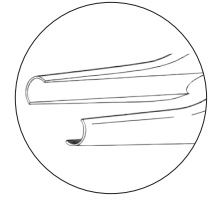
Cannula size: 0.33 mm OD - 0.16 mm ID

No. 18000-10



### Vessel Cannulation 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®



11 cm  
For tubing of 0.35 mm OD

**No. 00608-11**

11 cm  
For tubing of 0.5-1 mm OD

**No. 00574-11**



13 cm  
For tubing of 0.35 mm OD

**No. 11280-11**

11 cm  
For tubing of 0.5 mm OD

**No. 11281-11**

11 cm  
For tubing of 1 mm OD

**No. 11282-11**



11.5 cm  
For tubing of 0.35 mm OD

**No. 18403-11**

11.5 cm  
For tubing of 0.6 mm OD

**No. 18406-11**

13.5 cm  
For tubing of 0.6 mm OD

**No. 18406-13**

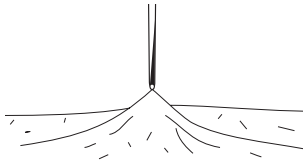
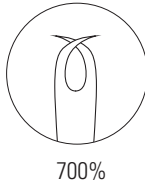
# PROBES, NEEDLE HOLDERS, WOUND CLOSURE, RETRACTORS & CLAMPS

|                |                |
|----------------|----------------|
| Probes & Hooks | 129 – 134      |
| Spatulae       | 132, 135 – 138 |
| Spoons         | 139            |
| Pins & Holders | 140 – 141      |
| Wound Closure  | 142 – 153      |
| Retractors     | 154 – 161      |



### Double Pronged Pick

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



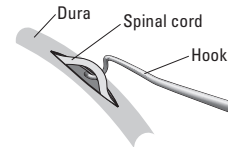
The tip consists of two very sharp, nearly horizontally opposed points. By applying gentle downward pressure and twisting slightly in a clockwise fashion, the points will embed themselves horizontally into fine membranes or skin etc., so that it may be lifted upward. This instrument also has been used 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



Shaped like a ligation aid and sized to isolate the spinal cord from the dura of adult mice and neonatal rats. The cord can then be cut with minimal damage to the dura.



11 cm  
Tip Ø: 3 mm

**No. 10162-12**

Bonn Micro Probes

Micro Points

Actual size



**Angled 45°**

13.5 cm  
Tip Ø: 0.025 mm

**No. 10032-13**



Actual size



**Straight**

13.5 cm  
Tip Ø: 0.025 mm

**No. 10030-13**

Actual size



**Wide Hook**

13.5 cm  
Tip Ø: 0.038 mm

**No. 10033-13**

Actual size



**Narrow Hook**

13.5 cm  
Tip Ø: 0.025 mm

**No. 10031-13**

300%



**Angled 90° Short**

15.5 cm  
Tip Ø: 0.05 mm

**No. 10063-15**



300%



**Angled 45°**

15.5 cm  
Tip Ø: 0.038 mm

**No. 10066-15**

300%



**Angled 90° Long**

15.5 cm  
Tip Ø: 0.02 mm

**No. 10065-15**

Probes and Explorers

Mico Hooks



10140-01



Actual size

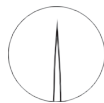


**Angled 80° Short**

15.5 cm  
Tip Ø: 0.12 mm

**No. 10140-04**

Actual size



**Straight**

15.5 cm  
Tip Ø: 0.25 mm

**No. 10140-01**

Actual size



**Angled 80° Long**

15.5 cm  
Tip Ø: 0.15 mm

**No. 10140-03**

Actual size



**Angled 80°**

15.5 cm  
Tip Ø: 0.15 mm

**No. 10140-02**

175%



**Micro hook**

13 cm  
Tip Ø: 0.05 mm

**No. 10064-14**



175%



**Blunt hook**

12 cm  
Tip Ø: 0.3 mm

**No. 10062-12**

175%



**Sharp hook**

12 cm  
Tip Ø: 0.075 mm

**No. 10061-12**

### 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**



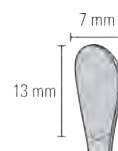
### Combination Spoon and Spatula



17.5 cm  
Top: Ø 7 mm / Bottom 30 x 7 mm

**No. 10090-17**

### Combination Probe and Spatula



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

**No. 10090-13**

### Micro Spatula



#### Straight

11 cm  
17.5 x 1 x 0.25 mm

No. 10089-11

### Mirror Finish Micro Spatula

Mirror finished to provide a non-stick spatula.



#### Curved

12 cm  
15 x 0.8 x 0.25 mm

No. 10087-12

### Double-Ended Micro Spatula



#### Curved/Angled

13 cm  
25 x 2 x 0.3 mm

No. 10091-12

## Iris Spatula

**Curved**

12 cm  
20 x 1.8 x 0.3 mm

**No. 10092-12**

**Slightly curved**

13 cm  
23 x 1.7 x 0.3 mm

**No. 10093-13**

**Straight**

13 cm  
33 x 3 x 0.4 mm

**No. 10094-13**

Micro Spatula Kit

Kit with 4 pieces



150% of  
actual size

SPATULAE

Black



Blue



Green



Red



Straight

6 cm

Tip Ø: 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.



14.5 cm  
20 x 6 mm & 13 x 3 mm  
Tip thickness: 0.5 mm

**No. 10099-12**

## Hippocampal Dissecting Tool

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



16 cm  
27 x 14 mm & 27 x 6 mm  
Tip thickness: 0.5 mm

**No. 10099-15**

**Spoon**

Moria

**Moria 1121B**

12.5 cm  
Tip Ø: 8 mm  
Depth: 2 mm

**No. 10321-08****Mini Perforated Spoon**

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

Moria

**Moria MC 17C**

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

**No. 10370-19****Perforated Spoon**

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



Moria

**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****Mirror Finish Cutting Spoon**

Non stick cutting spoon.



13 cm  
Tip Ø: 4.5 mm  
Depth: 0.15 mm

**No. 10360-13**

SPOONS

**Pin Holder**

Light weight



17 cm

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

**No. 26018-17**

**Pin Holder**



**Moria**



12 cm

Nickel-plated  
Jaw opening: 0 to 1 mm

**No. 26016-12**



## Insert Pins

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

5 cm  
Stainless Steel



Lancet

No. 26007-01



Straight

No. 26007-02



Curved

No. 26007-03



Lancet half

No. 26007-04



Spatula

No. 26007-05

## Black Anodized Minutien Pins

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



## Stainless Steel Minutien Pins

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

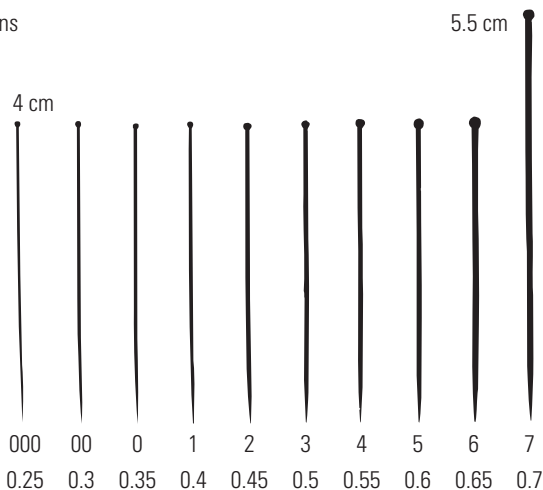
No. 26003-15

Tip Ø: 0.02 mm  
Rod Ø: 0.2 mm  
1.2 cm  
Box of 500 pins

No. 26002-20

## Black Anodized Insect Pins

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



| No. 26000 | -25 | -30 | -35 | -40 | -45 | -50 | -55 | -60 | -65 | -70 |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

## Stainless Steel Insect Pins

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 a 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 140.



Tip Ø: 1 µm (0.001 mm)  
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 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 148).



**Straight**

9 cm  
Lock: Yes

**No. 12060-01**

Lock: No

**No. 12060-02**



**Curved**

9 cm  
Lock: Yes

**No. 12061-01**

Lock: No

**No. 12061-02**

Kalt Needle Holder

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  
13.5 cm  
Lock: Yes

**No. 12080-14**

**Curved**

Serrated: Yes  
13.5 cm  
Lock: Yes

**No. 12081-14**

### Round Handled Needle Holder

Round handles allow easy fingertip adjustments.



**Straight**

12.5 cm  
Lock: Yes

**No. 12075-12**



**Curved**

12.5 cm  
Lock: No

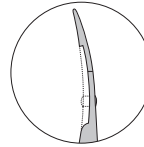
**No. 12074-12**

Lock: No

**No. 12076-12**

### Round Handled Needle Holder 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 148).



**Curved**

14 cm  
Cutting edge: 3.5 mm  
Lock: No

**No. 12075-14**

### Castroviejo with Tungsten Carbide Jaws



14 cm  
Tungsten Carbide jaws  
Lock: Yes

**No. 12565-14**

WOUND CLOSURE

## Halsey



13 cm  
Smooth  
Lock: Yes

**No. 12001-13**



13 cm  
Tungsten Carbide jaws  
Lock: Yes

**No. 12501-13**

## Halsey with Tungsten Carbide Jaws



12.5 cm  
Tungsten Carbide jaws  
Lock: Yes

**No. 12500-12**

WOUND CLOSURE

### Mathieu

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



14 cm  
Lock: Yes

No. 12010-14



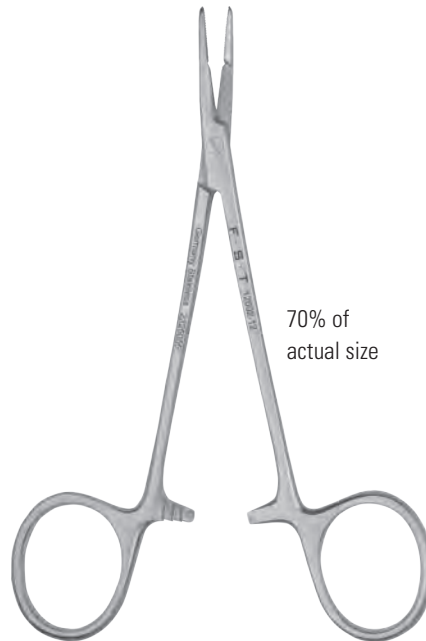
14 cm  
Tungsten Carbide jaws  
Lock: Yes

No. 12510-14

### Olsen-Hegar with Suture Cutter



12102-12



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

### Olsen-Hegar with Suture Cutter and Tungsten Carbide Jaws



12512-12



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

WOUND CLOSURE

## Crile-Wood



12504-15



15 cm  
Lock: Yes

No. 12003-15

15 cm  
Tungsten Carbide jaws  
Lock: Yes

No. 12503-15

No. 12504-15

## Mayo-Hegar



16 cm  
Lock: Yes

No. 12004-16



18 cm  
Lock: Yes

No. 12004-18

### Slim Elongated Needle Holder with Tungsten Carbide Jaws



15 cm  
Tungsten Carbide jaws  
Lock: Yes

**No. 12005-15**

### Ryder Mini-Select Needle Holder

This needle holder has been uniquely fashioned with tungsten carbide dust tips, giving the clamping platform an extra secure grip.



15 cm  
Tungsten Carbide jaws  
Lock: Yes

**No. 12505-15**



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.

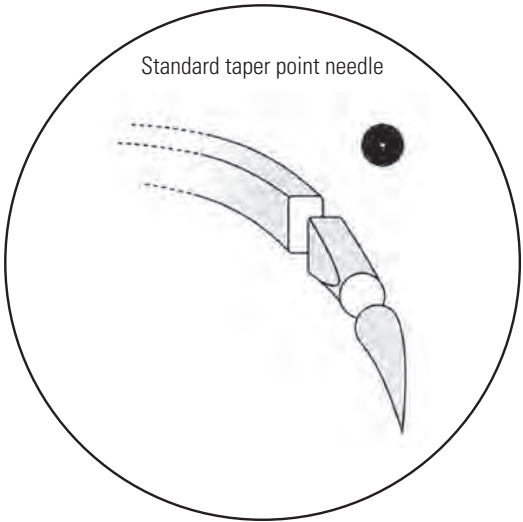
The suture-to-needle attachment is tested to higher standards than the USP specifications.

Features:

- Needle and thread combination comprising of nonabsorbable black nylon polyamide monofilament thread and stainless steel 3/8 circle needle. Nylon is suitable for closing ophthalmic, neurological and microvascular wounds.
- 3/8 circle precision taper point. 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

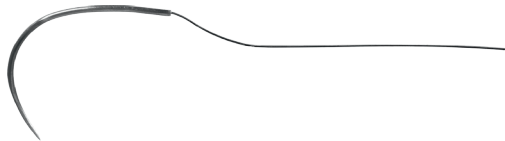
No. 12052-11



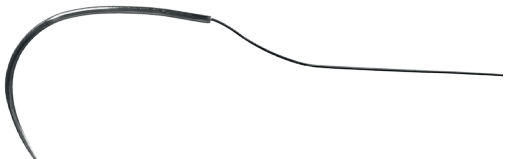
No. 12052-10



No. 12052-09



No. 12052-08



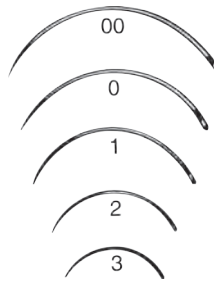
| Suture size | Suture length<br>(cm) | Needle Ø<br>(micron) | Needle Ø<br>(mm) | Needle chord length<br>(mm) | Circle | Arch<br>(mm) | Item         |
|-------------|-----------------------|----------------------|------------------|-----------------------------|--------|--------------|--------------|
| 11/0        | 10                    | 50                   | 0.05             | 3.8                         | 3/8    | 3.8          | No. 12052-11 |
| 10/0        | 10                    | 70                   | 0.07             | 3.8                         | 3/8    | 3.8          | No. 12052-10 |
| 9/0         | 15                    | 100                  | 0.1              | 5                           | 3/8    | 5.1          | No. 12052-09 |
| 8/0         | 15                    | 140                  | 0.14             | 5                           | 3/8    | 6.4          | No. 12052-08 |

**Suture Needles**

- Polished 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 | Item         |
|------|--------------|
| 00   | No. 12050-20 |
| 0    | No. 12050-10 |
| 1    | No. 12050-01 |
| 2    | No. 12050-02 |
| 3    | No. 12050-03 |

**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 79, 80 and 81.****Nylon Monofilament Suture**

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

Nylon monofilament

**Non sterile****Can be ETO sterilized**

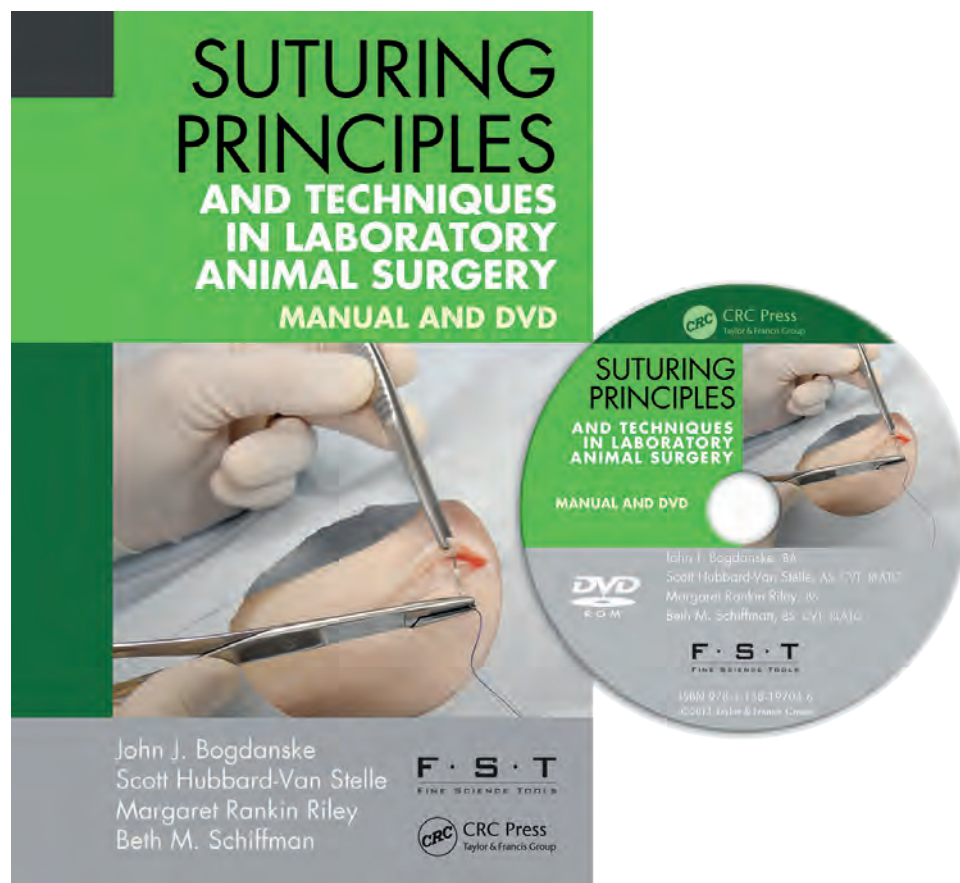
| Size | Suture Ø (mm) | Spool length (m) | Item         |
|------|---------------|------------------|--------------|
| 8/0  | 0.04          | 91               | No. 18030-80 |
| 7/0  | 0.05          | 91               | No. 18030-70 |
| 6/0  | 0.07          | 91               | No. 18030-60 |
| 5/0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

### Suturing Principles and Techniques in Laboratory Animal Surgery

This manual introduces the reader into the basic principles, materials and surgical instruments required for suturing and wound closure used on laboratory animals. It provides descriptions and pictures portraying proper tissue handling and aseptic technique, correct hand placement and use of surgical instruments, proper needle placement on needle holders, and provides an in-depth explanation of various suture patterns and associated principles for proper knot tying during wound closure.

The included DVD provides descriptive narrative and step-by-step video demonstrations for each of the suturing techniques.

For your convenience all instruments which are used for the demonstrations are listed with their FST item numbers



No. 23005-10

Michel Suture Clips

- Anti-magnetic
- Acid-resistant stainless steel
- Pkg. of 1.000 clips

| Size<br>(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

WOUND CLOSURE

### Reloadable Skin Stapler with Rotating Head

The 360° degree swivel nose and unique design offers maximum visibility at the delivery point. The 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

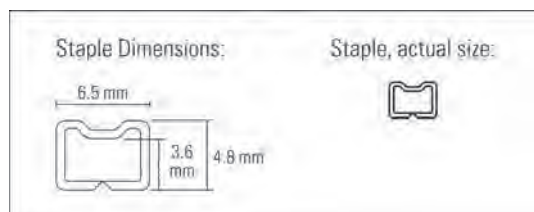
Reusable autoclavable handle

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

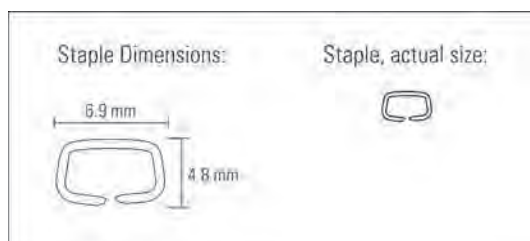
Quality, slim, lightweight design with consistent actuation and staple count indicator.

**Disposable, sterile and not autoclavable.**



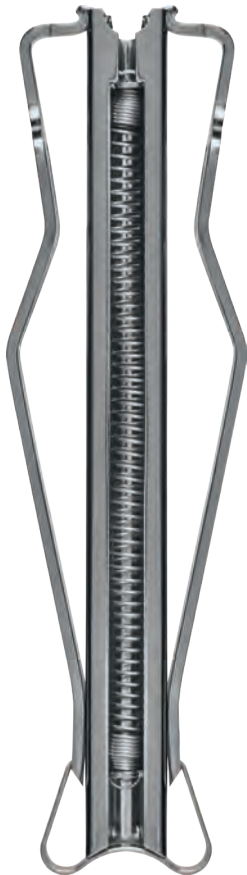
15 cm  
35 staples per cartridge

**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

WOUND CLOSURE

AutoClip® Kit

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

AutoClip® applier  
11.5 cm

AutoClip® clips  
9 mm  
Pkg. of 100 clips

AutoClip® clips  
9 mm  
Pkg. of 1000 clips

AutoClip® remover  
12.5 cm

No. 12020-00

No. 12020-09

No. 12022-09

No. 12022-19

No. 12023-00

## RETRACTORS

### Guthrie

Extra delicate pattern.



2.5 mm



13 cm  
2 Blunt

No. 17021-13

### Fine Retractor



6 mm



13.5 cm  
2 Blunt

No. 17023-13

### Blair



6 mm



13.5 cm  
4 Blunt

No. 17022-13

### Fomon



80% of  
actual size

13 mm

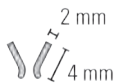


17 cm  
2 with 2 mm Ball each tip

No. 17020-17



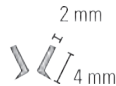
## Slide Retractor with Blades



2 cm  
Max. spread: 1 cm

**No. 17004-03**

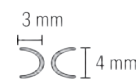
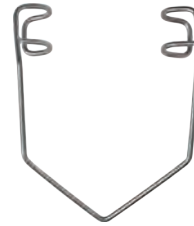
## Mini-Goldstein



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

**No. 17002-02**

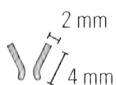
## Mini-Colibri



2 cm  
Max. spread: 1 cm

**No. 17000-01**

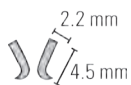
## Slide Retractor with Teeth



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

**No. 17005-03**

## Goldstein



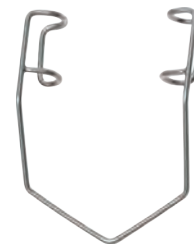
3 cm  
Max. spread: 1.8 cm  
3 x 3 Sharp teeth

**No. 17003-03**

## Colibri



17000-03



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**

### Speculum



#### Moria 7699

4.5 cm  
Max. spread: 3.5 cm  
Curved

**No. 17370-53**

### Fine Adjustable Wire Retractor



5 cm  
Max. spread: 3.5 cm  
Curved

**No. 17004-05**

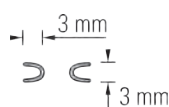
### Colibri



#### Moria 6346D

3.4 cm  
Max. spread: 1.5 cm

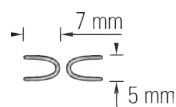
**No. 17300-02**



#### 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**

Alm Retractor with Wire Teeth



7 cm  
Max. spread: 4 cm  
Slightly curved down

**No. 17010-07**

Alm Retractor with Blunt Teeth



5.5 mm



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

**No. 17008-07**

16 mm



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

**No. 17009-07**

Alm Retractor with Blades



4.5 mm

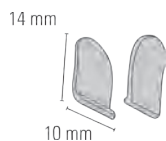


7.5 cm  
Max. spread: 4.5 cm  
Slightly bent

**No. 17009-08**

### Spring-Loaded Retractor

Curved atraumatic blades



5.5 cm  
Max. spread: 3 cm  
14 x 10 mm

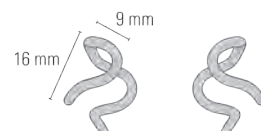
**No. 17006-05**



8 cm  
Max. spread: 4 cm  
22 x 16 mm

**No. 17007-08**

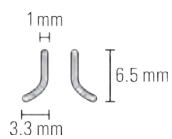
### Bowman



8 cm  
Max. spread: 2.5 cm

**No. 17001-07**

## Heiss



10 cm  
Max. spread: 2.3 cm  
4 x 4 Blunt teeth

No. 17011-10

## Gelpi

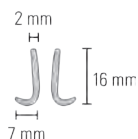


10 cm  
Angled down  
Max. spread: 3 cm  
1 x 1 Sharp teeth

No. 17017-10

Weitlaner-Locktite

Wullstein



Straight

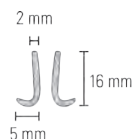
2 x 3 Blunt teeth  
11 cm  
Max. spread: 4 cm

No. 17012-11

Straight

3 x 4 Blunt teeth  
13 cm  
Max. spread: 4 cm

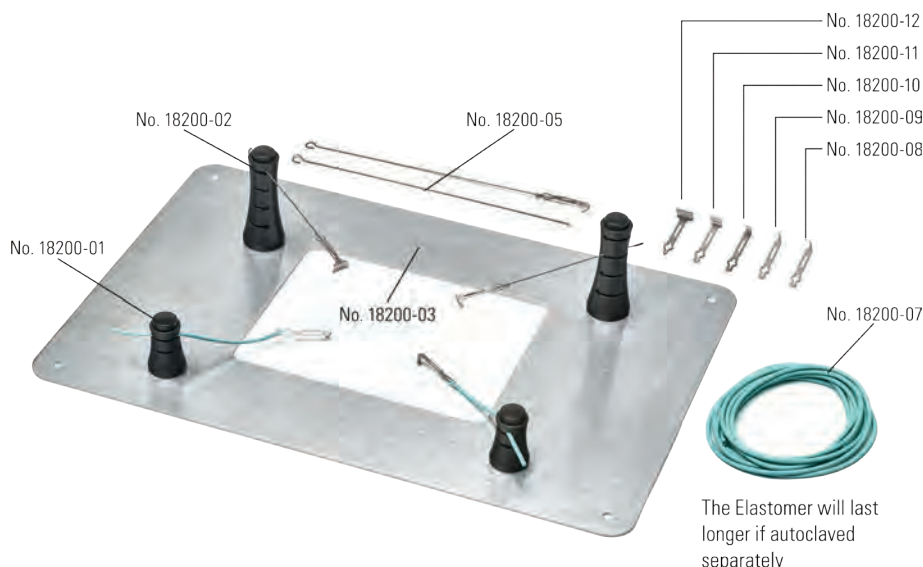
No. 17012-13



Angled down

3 x 3 Blunt teeth  
11 cm  
Max. spread: 3 cm

No. 17018-11



### 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 system components are autoclavable.**

#### 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 163 – 168

Instrument Care & Accessories 169 – 180

Surgical Accessories 181 – 184

Laboratory Accessories 185 – 197





### Reusable Gavage Feeding Needles

Stainless steel feeding needles with luer lock hub. Also ideal for transcatheter perfusions with a fixative. The needles come with a round tip.



Round tip

No. 18061-24



Round tip

No. 18061-50

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

These needles come with a barrel tip.



Barrel tip

No. 18060-20



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

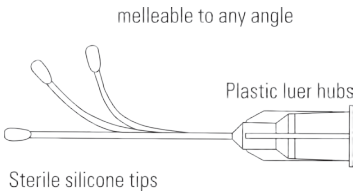
Single Use Gavage Feeding Needles

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.**

Pkg. of 5 needles



No. 18061-20



| Gauge | Length<br>(mm) | Tip Ø<br>(mm) | Mice<br>(g) | Rats<br>(g) | Guinea pigs<br>(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.**

Pkg. of 5 needles



No. 18961-85

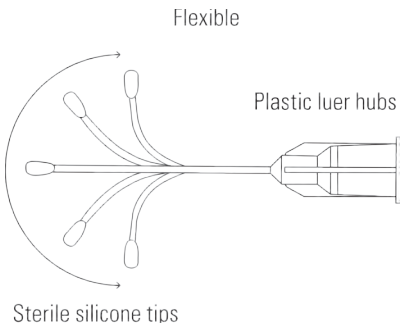
No. 18961-75

No. 18961-15

No. 18961-17

No. 18961-18

No. 18961-20



| Gauge | Length<br>(mm) | Tip Ø<br>(mm) | Mice<br>(g) | Rats<br>(g) | Guinea pigs<br>(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.**



**Microtubes  
not included.**

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  
Stainless Steel and  
Anodized Aluminum  
Punch Ø: 2 mm

**No. 24215-02**

### Blue Ear Punch

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.**



**Microtubes  
not included.**

14 cm  
Punch Ø: 1 mm

**No. 24916-01**

14 cm  
Punch Ø: 2 mm

**No. 24916-02**

### Ear Punch with Replaceable Tip

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



#### Handle and Tip

11.5 cm  
Anodized aluminum handle  
and stainless steel tip  
Punch Ø: 2 mm

**No. 24213-02**

#### Replacement Tip

Punch Ø: 2 mm

**No. 24213-12**

### Ear Punch

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



11.5 cm  
Stainless Steel 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**

### 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 and not the skin and will last for 6-12 weeks.



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



Fine Tip  
4.5 x 7.5 mm  
Black  
10 ml

No. 24202-06



Fine Tip  
4.5 x 7.5 mm  
Blue  
10 ml

No. 24202-02



Fine Tip  
4.5 x 7.5 mm  
Green  
10 ml

No. 24202-01



Fine Tip  
4.5 x 7.5 mm  
Red  
10 ml

No. 24202-04



Fine Tip  
4.5 x 7.5 mm  
Yellow  
10 ml

No. 24202-03



Fine Tip  
4.5 x 7.5 mm  
Orange  
10 ml

No. 24202-05



Standard Tip  
15 x 10 x 10 mm  
Black  
15 ml

No. 24202-16



Standard Tip  
15 x 10 x 10 mm  
Blue  
15 ml

No. 24202-12



Standard Tip  
15 x 10 x 10 mm  
Green  
15 ml

No. 24202-11



Standard Tip  
15 x 10 x 10 mm  
Red  
15 ml

No. 24202-14



Standard Tip  
15 x 10 x 10 mm  
Yellow  
15 ml

No. 24202-13



Standard Tip  
15 x 10 x 10 mm  
Orange  
15 ml

No. 24202-15

### Surgical 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

These ear tags come numbered from 1-1000. The silver colored ear tags are made of monel and the laser marked 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



## 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.



Picture similar

Alloy: Monel  
0.8 cm  
No. 1-100  
Ear tags - #s 1 to 100

**No. 24221-10**

Alloy: Monel  
0.8 cm  
No. 1-500  
Ear tags - #s 1 to 500

**No. 24221-50**

Alloy: Monel  
0.8 cm  
No. 501-1000  
Ear tags - #s 501 to 1000

**No. 24221-90**

# Animal Microtattoo System

A quick, efficient and affordable method of permanently identifying laboratory animals (mice as early as 1 day old). Designed and tested by laboratory animal technicians, the system utilizes a hypodermic needle at one end of a stainless steel forceps and a small metal cup containing green tattoo paste at the other side of the forceps.

By squeezing the forceps together, the needle penetrates the toe, footpad or ear of the animal and injects a deposit of green tattoo paste into the animal. A grid location pattern provided enables a numbering system that extends over 1 million.

Use of the microtattoo system is humane and in compliance with regulatory agencies for the care and use of laboratory animals. Detailed instructions are included.

**Both the microtattoo forceps and green tattoo paste are autoclavable.**

Animal microtattoo system (No. 24201-00) includes:

- 1 Pair plated steel microtattoo forceps
- 1 Tube (1 oz.) of green tattoo paste
- 1 Aluminum planchette
- 2 Hypodermic needles
- 1 Plastic holding case



Animal microtattoo system  
13 cm

**No. 24201-00**



Green tattoo paste  
29.6 ml

**No. 24201-01**

### Fine Forceps Repair Kit

Realign and repair fine forceps with this convenient kit. Bent forcep tips can be restraightened with the chain nose pliers. The sharpening stone has two grooves, 1.6 mm and 0.8 mm, to assist in reshaping the forcep 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 with ten O-rings (No. 29008-22)
- 1 Instrument oil, 50 ml bottle (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**

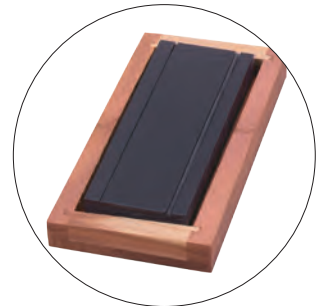


#### Instrument Oil

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 reshaping 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

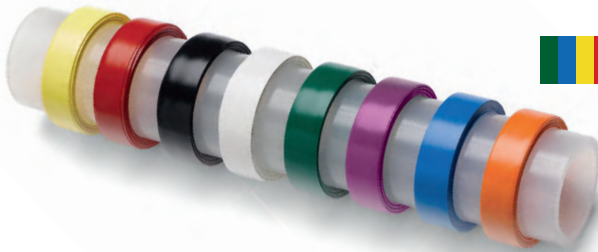
Organize instruments quickly and easily with this economical, non-toxic, pressure sensitive tape. Color is unaffected by boiling, cold sterilization or autoclaving. 8 colors available. **Autoclavable.**



| Color  | Roll length<br>(cm) | Tape width<br>(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 8 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 8 assorted color rolls: Yellow, Red, Black, White, Green, Brown, Purple, Blue and Orange. **Autoclavable.**



|  |     |     |       |              |
|--|-----|-----|-------|--------------|
|  | 107 | 0.6 | Vinyl | No. 29080-01 |
|--|-----|-----|-------|--------------|

### Instrument Marking Tape

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<br>(cm) | Tape width<br>(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.



10 x 18 cm

For instruments up to 13 cm long

Pkg. of 100 pouches

**No. 28000-07**

13 x 26 cm

For instruments up to 23 cm long

Pkg. of 100 pouches

**No. 28000-10**

18 x 30 cm

For instruments up to 26 cm long

Pkg. of 100 pouches

**No. 28000-12**

## HOT BEAD STERILIZER

### 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 110V and 220V. 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 (only with FST 250)

FST 250 shown.  
Instruments not included.

60 % of actual size



#### FST 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

#### FST 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 FST 250

Weight: 150 g

No. 18000-46

#### Replacement glass beads for FST 350

Weight: 300 g

No. 18000-51

### Micro Bead Sterilizer with Glass Beads

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) can be used to eliminate the presence of bacteria, spores and other micro-organisms.

#### Small Sterilizer 110V

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 220V

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: 150 g

**No. 18000-47**

#### Tall Sterilizer 220V

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 110V

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**

Small sterilizer shown.  
Instruments not included.

60 % of actual size



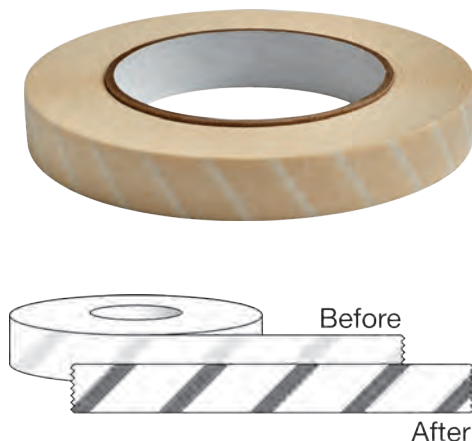
#### Replacement glass beads for tall sterilizer

Weight: 300 g

**No. 18000-52**

**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.



2 cm x 55 m

**No. 28001-02**

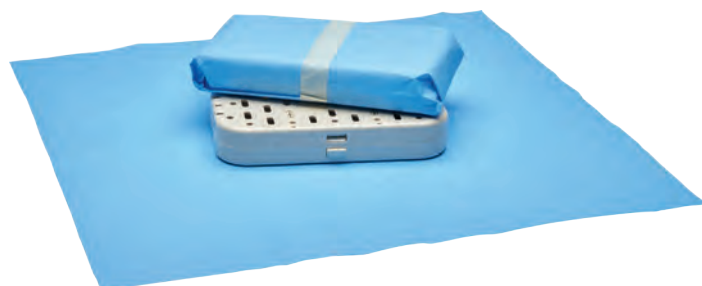
**Disposable Sterilization Wraps**

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.



38 x 38 cm  
Pkg. of 25 wraps

**No. 28015-15**



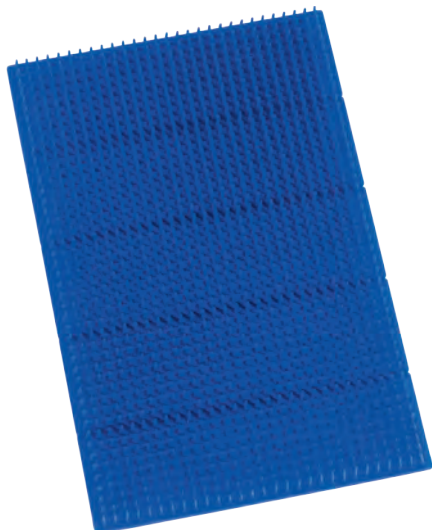
51 x 51 cm  
Pkg. of 25 wraps

**No. 28020-20**

Cases not included.

**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.**

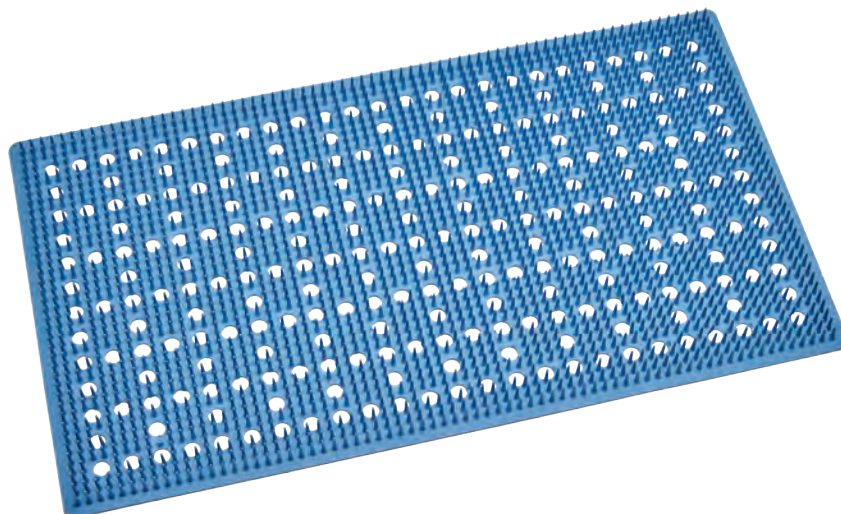


Instruments not included.

30 x 20 cm

**No. 20350-00****Silicone Mat**

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



46 x 25 cm

**No. 20325-10**



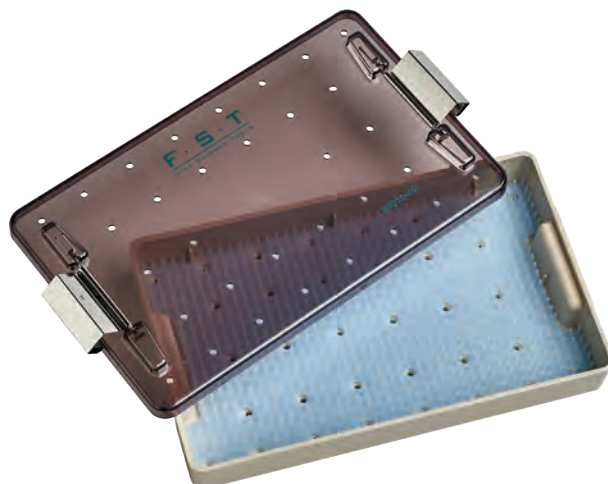
### Sterilization Container

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

### Two Tiered Sterilization Container

This plastic sterilization container has two tiers of silicone slots that will accommodate up to 12 different instruments. Hinged top and bottom lock tight. Container is perforated. **Suitable for autoclave or ethylene oxide sterilization.**



25 x 12 x 3 cm

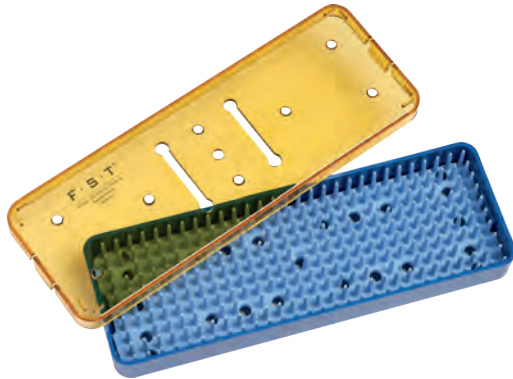
No. 20820-00

### 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.**

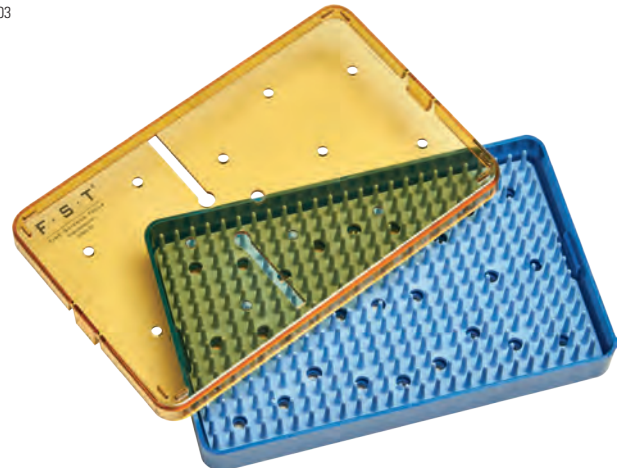


20840-03



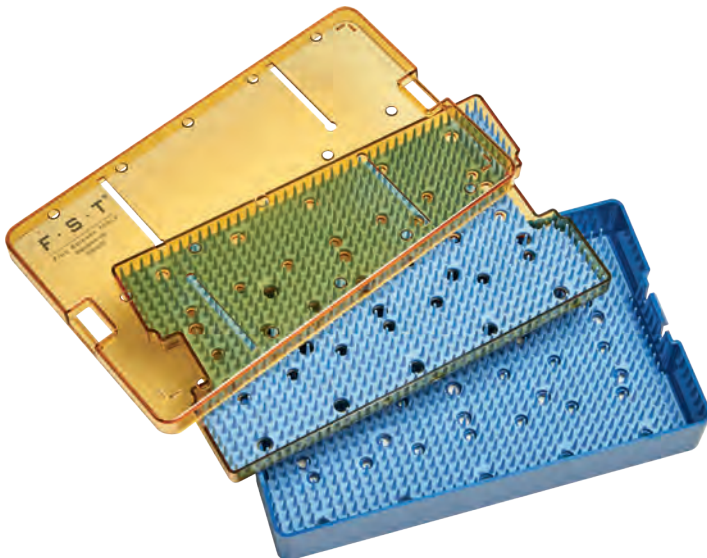
19 x 7 x 2 cm  
Single tier

No. 20840-01



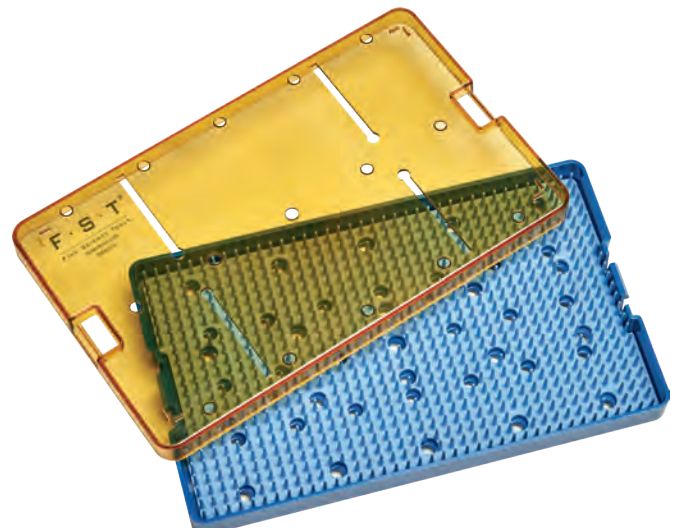
17 x 10 x 2 cm  
Single tier

No. 20840-02



25 x 15 x 4 cm  
Double tier

No. 20842-03



25 x 15 x 2 cm  
Single tier

No. 20840-03

### Dual Clasping 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**

One Long-term textile filter

**No. 20850-11**

### Utility 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



18 x 9 x 3 cm  
Silver

**No. 20311-21**



### Colored Aluminum Cases

This instrument case comes with a spiked silicone mat for secure storage of surgical instruments. Four 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.**



18 x 9 x 3 cm  
Blue

**No. 20330-00**



18 x 9 x 3 cm  
Green

**No. 20330-01**



18 x 9 x 3 cm  
Red

**No. 20330-02**



18 x 9 x 3 cm  
Yellow

**No. 20330-03**

### Instrument Case

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.



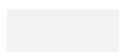
17 x 8 x 2 cm  
Blue

**No. 20830-00**



17 x 8 x 2 cm  
Green

**No. 20830-01**



17 x 8 x 2 cm  
Clear

**No. 20830-02**



17 x 8 x 2 cm  
Yellow

**No. 20830-03**



17 x 8 x 2 cm  
Pink

**No. 20830-04**



17 x 8 x 2 cm  
Orange

**No. 20830-05**



17 x 8 x 2 cm  
Purple

**No. 20830-06**

## INSTRUMENT STORAGE

### Roll Up Travel Case

Vinyl dissection roll up case with Velcro strap to hold the case closed. Holds up to 10 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: Plastisol

No. 29060-01



2 x 19 mm  
Pkg. of 25  
Material: Plastisol

No. 29060-02



2.8 x 19.1 mm  
Pkg. of 25  
Material: Plastisol

No. 29060-03



3.2 x 25.4 mm  
Pkg. of 25  
Material: Plastisol

No. 29060-04



29060-00



4.8 x 25.4 mm  
Pkg. of 25  
Material: Plastisol

No. 29060-05



9.5 x 25.4 mm  
Pkg. of 25  
Material: Plastisol

No. 29060-06



Assorted pack, five of each size  
Pkg. of 30  
Material: Plastisol

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 thorough sterilization. **Autoclavable.**



12.7 x 2 mm  
Pkg. of 10  
Material: Plastisol

No. 29066-01



9 x 25.5 mm  
Pkg. of 10  
Material: Plastisol

No. 29066-02



15 x 25 mm  
Pkg. of 10  
Material: Plastisol

No. 29066-03



25 x 26 mm  
Pkg. of 10  
Material: Plastisol

No. 29066-04



Assorted pack,  
three of each size  
Pkg. of 12  
Material: Plastisol

No. 29066-00

### Stainless Steel Burrs

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

| Tip Ø<br>(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 64).

\*\* Use this size for screws No. 19010-00 (page 64).



### Carbon Steel Burrs

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



19007-07

| Tip Ø<br>(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 64).

\*\* Use this size for screws No. 19010-00 (page 64).



### Tungsten Carbide Burrs

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



| Tip Ø<br>(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 64).

\*\* Use this size for screws No. 19010-00 (page 64).



### Stainless Steel Trephines

Side opening for clearing of material.

Length: 44 mm  
Shaft Ø: 2.3 mm  
Sold individually

1.8 - 2.7 mm 5 mm

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



### Stainless Steel Circular Saw

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



Ø: 1.6 cm  
Thickness: 0.1 mm  
Pkg. of 10 saws

No. 18000-20

### Stainless Steel 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. **Not autoclavable.**



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

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

65% of  
actual size



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

Box of 10 tips

No. 18010-00

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

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



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

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 includes:

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



Remove batteries before autoclaving.

80% of  
actual size



Replacement tip  
Reusable  
Straight / Fine

Cautery Kit

No. 18000-00



Replacement tip  
Reusable  
Angled / Fine

No. 18000-02



Replacement tip  
Reusable  
Straight / Fine

No. 18000-03



Replacement tip  
Reusable  
Straight knob

No. 18000-04

Neuro Punches

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



| ID<br>(mm) | OD<br>(mm) | Gauge | Length<br>(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 |

Absorption Spears and Triangles

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



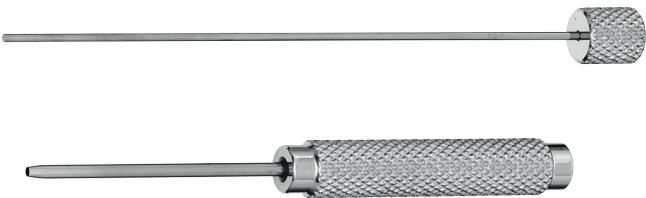
Absorption Triangles  
2 cm  
Sterile: Yes  
Pkg. of 200 triangles

No. 18105-04

Sample Corers

For quantitative analysis. Comes with plunger.

8.5 cm



| ID<br>(mm) | OD<br>(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 |

Fiber Optic Swabs



Straight  
15 cm  
Tip Ø: 2.5 mm  
Pack of 100

No. 18106-01

Micro Cleaning Brush



7 cm  
Nylon  
Bag of 25

No. 18196-10



### Miniature File Set

Comes with 8 different file profiles in a vinyl pouch.



10 cm  
Carbon Steel

**No. 30076-14**

### Instrument Sharpening Stones

Natural Arkansas oil stones feature unequaled 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 4 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.**



Straight  
13 cm  
Cutting Edge: 58 mm

**No. 10025-70**

### Replacement blade

Straight  
Cutting Edge: 58 mm

**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 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.



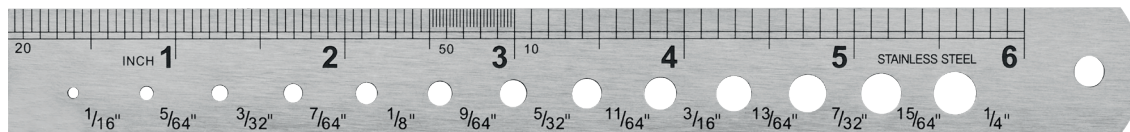
13 cm  
Stainless steel with  
plastic handle

No. 37500-05

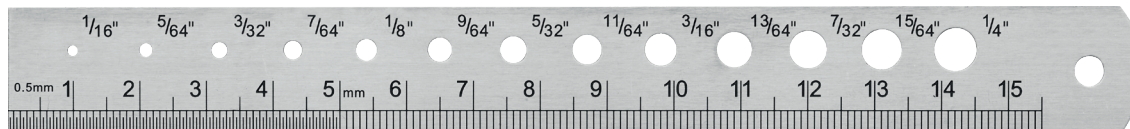


## Ruler with Gauge Measurements

Front



Back



Stainless Steel  
15.5 cm / 6"

No. 30085-15

## Ruler with Metric Conversion Table

Front



Back



Stainless Steel  
30 cm / 12"

50% of actual size

No. 30085-30

## Ruler Label

Used for stable measurements in all surgical platforms.



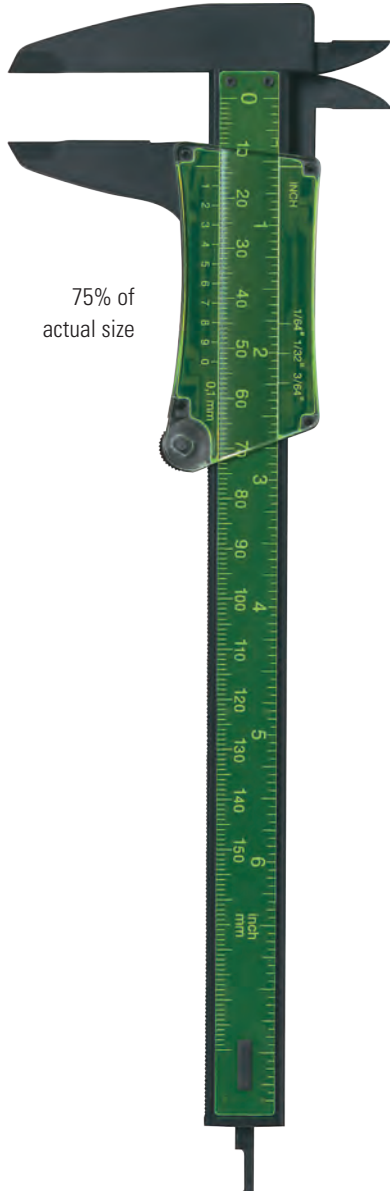
6 cm

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.



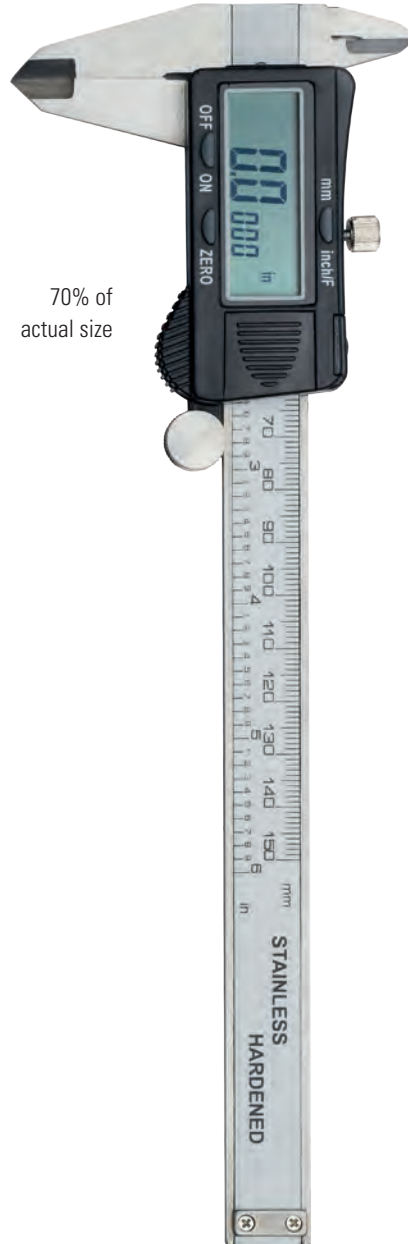
75% of  
actual size

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.



70% of  
actual size

Stainless steel  
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

**Magnifying 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 Micrometers**

These are highly accurate stage micrometers for use with transmitted light in both compound and stereo microscopes. Comes with a plastic case.

76 x 26 mm  
10 mm with 100 divisions (0.1 mm)

**No. 29025-01**



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

**No. 29025-02**

### 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.

Enlarged 225%

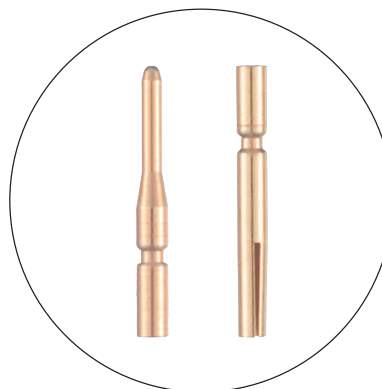
Total length: 16 mm (if connected)  
Ø: 1.2 mm  
Opening for wire: 0.63 mm

Pkg. of 50 Male contacts

**No. 19003-00**

Pkg. of 50 Female contacts

**No. 19003-01**



### Headband Magnifier

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



Headband magnifier shown with VisorLIGHT™ (sold separately).

### VisorLIGHT™

Small, portable light source with 26 cm cord for attachment to headband. It comes with a battery pack that holds two AA batteries. Completely adjustable. Replacement bulbs are available upon request.

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

**No. 28030-02**

Magnification: 2.75  
Working distance: 15 cm (6")

**No. 28030-03**

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

**No. 28030-04**



AA battery (not included)

**No. 28030-10**



### Interchangeable Magnifier Headset 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).



Magnification: 1x, 1.5x, 2x, 2.5x and 3.5x

Field of view: Variable

Working distance: Variable

**No. 28080-10**

### Galilean Loupes

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")  
Weight: 72 g

**No. 28050-30**

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

**No. 28050-35**

### Eschenbach Magnifier Spectacles

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")  
Weight: 70 g  
Plastic frame reinforced with fiberglass

**No. 28040-30**

### Spectacles Headband

Compatible with the Eschenbach Max Detail Spectacles (Item No. 28030-20) and Eschenbach Magnifier Spectacles (Item No. 28040-30).



Material: Neoprene

**No. 28080-90**

### Eschenbach Max Detail Spectacles

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")  
Working distance: 40 cm (16")  
Weight: 49 g

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

**No. 28030-20**

### Eschenbach Clip-On LED Light

A compact and lightweight light source with two high-performance SMD LED's 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 Max Detail Spectacles and Head-band Magnifiers. Comes with 3 AA batteries, belt clip and storage case.



Weight: 106 g (incl. batteries)

**No. 28030-25**



### Eschenbach Vario Flex with LED

The Vario LED Flex 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**



### Eschenbach Scribolux Magnifier

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")  
 Lens material: PXM® lightweight lens with patented Ceratec® scratch resistant coating  
 Illumination: SMD LED  
 Power source: 6V (4 AA-Batteries included)

**No. 28020-28**



### Optical 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



### 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

### Eschenbach mobilux® DIGITAL inspection

The reflection-free and high-contrast 4.3-inch display ensures relaxed work. The HD camera arranged centrally under the display enables easy orientation. A magnification of up to 15x can be selected continuously or in increments by touching the magnifying glass symbol. The integrated LED lighting offers great variability in lighting and exposure settings for a wide variety of applications. The mobilux® offers measurement and comparison functions via adjustable scales and templates as well as simultaneous comparison measurements of the target and actual status via a split screen on the PC.

With the photo function, the live image seen through the magnifying glass can be saved as a photo on an inserted SD card. The images can also be easily transferred to a computer via a USB connection. In addition, the USB connection to the computer enables the live image of the magnifying glass to be transferred to the PC monitor, so the mobilux® can also be used as a screen reader. The "mobilux® digital" program supplied must first be installed on the computer (Windows Vista, Windows 7, 8 or Windows 10).

Delivery incl. USB cable length 2m, SD memory card (incl. software), hand strap, manual, case for storage, calibration plate. Mains adapter for EU, GB, US, AUS included.



Magnification: 4 -15x  
Field of view: Variable  
Working distance: Variable  
Screen size: 11 cm (4.3")  
Screen resolution: 480 x 272 px  
User input: Touchscreen

**No. 28070-50**

### Eschenbach laboCOMFORT

With the laboCOMFORT, both hands remain free to work. The screen can be folded up when not in use. Various locking options for individual height adjustment of the magnifying screen. The headband magnifier can also be used by people who wear glasses.



Can be used with the Eschenbach  
Clip-On LED light.

Magnification: 3x  
Working distance: 13 cm (5")

**No. 28030-13**

# STUDENT INSTRUMENTS

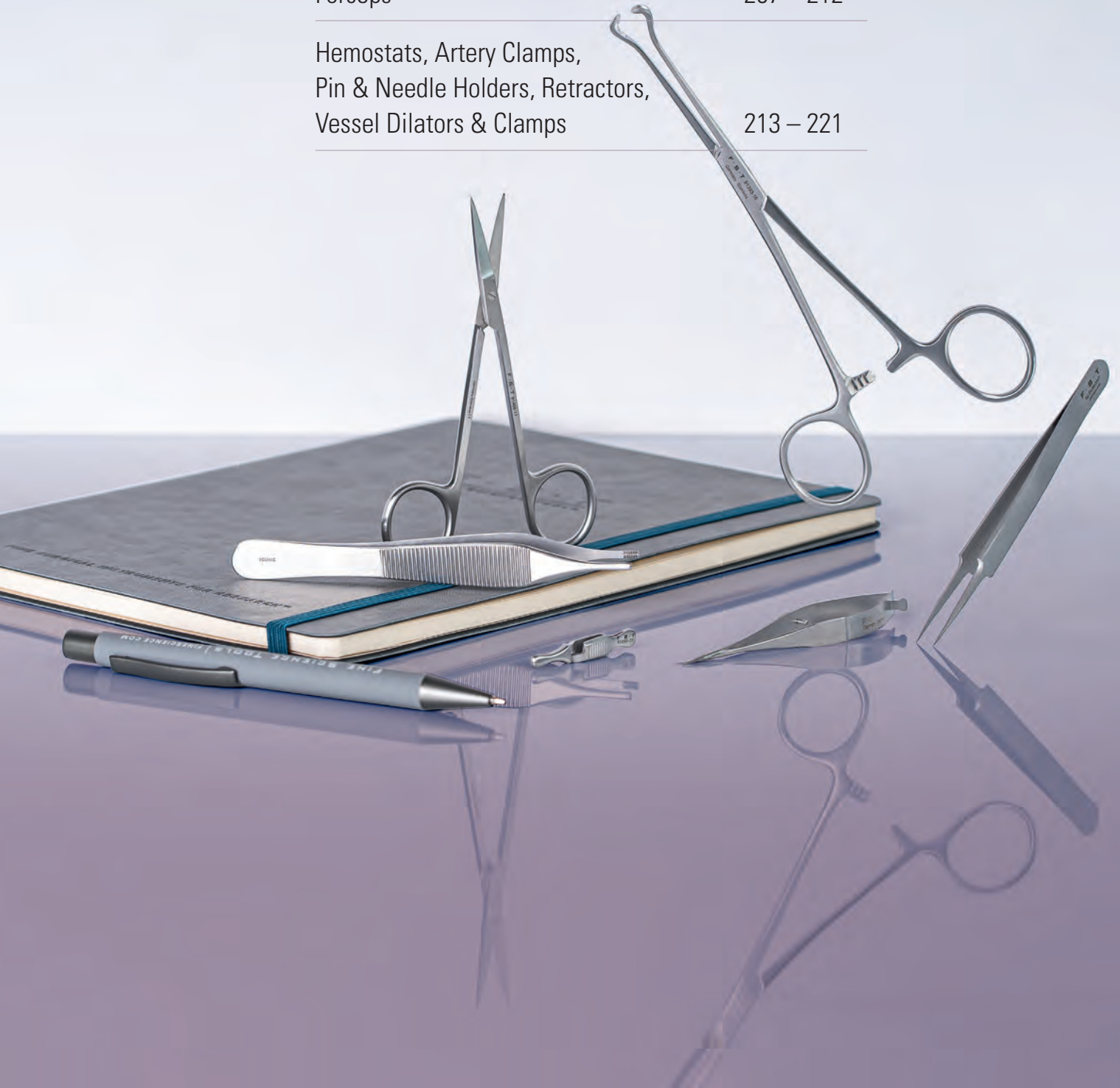
|          |           |
|----------|-----------|
| Scissors | 200 – 204 |
|----------|-----------|

|         |     |
|---------|-----|
| Cutters | 205 |
|---------|-----|

|                 |     |
|-----------------|-----|
| Scalpel Handles | 206 |
|-----------------|-----|

|         |           |
|---------|-----------|
| Forceps | 207 – 212 |
|---------|-----------|

|  |           |
|--|-----------|
| Hemostats, Artery Clamps,<br>Pin & Needle Holders, Retractors,<br>Vessel Dilators & Clamps | 213 – 221 |
|--|-----------|





# FST STUDENT QUALITY INSTRUMENTS



## 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 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** for more information.



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

STUDENT LINE

## SCISSORS

### Vannas Spring Scissors

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



91500-09



### Fine Scissors



91460-11



### Sanvenero



**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**

Surgical Scissors



| Length<br>(cm) | Cutting edge<br>(mm) | Straight<br>Sharp / Sharp | Straight<br>Sharp / Blunt | Straight<br>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<br>(cm) | Cutting edge<br>(mm) | Curved<br>Sharp / Sharp | Curved<br>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 0%

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

STUDENT

Wagner



% DISCOUNT

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



**Straight  
Sharp/Sharp**

11.5 cm  
Cutting edge: 20 mm

No. 91468-12

Spencer Ligature



**Straight  
Sharp/Sharp**

9 cm  
Cutting edge: 16 mm

No. 91476-09

STUDENT



Lister Scissors

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



**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

Mayo



80% of  
actual size

DISCOUNT 0%

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

STUDENT

Metzenbaum Baby

Metzenbaum



**% DISCOUNT**

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

STUDENT



**Curved  
Blunt/Blunt**

14.5 cm  
Cutting edge: 22 mm

**No. 91419-14**



**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**

**Heavy Scissors**

**Curved  
Sharp/Sharp**

Heavy Blades  
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**

**Bone Cutter**

**Angled 30°**

11 cm  
Cutting edge: 19.5 mm  
Blue plastic handle

**No. 91601-11**



DISCOUNT 0%

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

STUDENT

## Scalpel Handle #4



For scalpel blades,  
see page 73.

#4

13 cm

No. 91004-13

## Standard Scalpel Handle #3



For scalpel blades,  
see page 74.

#3

12 cm

No. 91003-12

% DISCOUNT

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

STUDENT

Dumont #5



Standard  
Straight

11 cm  
Inox  
0.1 x 0.06 mm

No. 91150-20

Dumont #7



Standard  
Curved

11 cm  
Inox  
0.17 x 0.1 mm

No. 91197-00

DISCOUNT

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

STUDENT

## FINE FORCEPS

### Fine Forceps Straight



**Straight**

11 cm  
0.2 x 0.1 mm

**No. 91115-10**

### Fine Forceps Broad Shanks



**Straight / Broad shanks**

12 cm  
0.2 x 0.2 mm

**No. 91113-10**

### Fine Forceps Curved



**Curved**

12 cm  
0.2 x 0.2 mm

**No. 91117-10**

### Fine Forceps Angled



**Angled**

11 cm  
0.2 x 0.2 mm

**No. 91110-10**

**% DISCOUNT**

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

STUDENT

Feilchenfeld



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

Splinter Forceps



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



# STANDARD FORCEPS

## Micro Adson



80% of  
actual size



### Serrated

12 cm

Tip width: 0.7 mm

No. 91118-12



### 1x2 Teeth

12 cm

Tip width: 1.3 mm

No. 91119-12

## Adson

Wide, strong grip with narrow tips.



80% of  
actual size

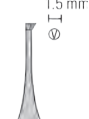


### Serrated

12 cm

Tip width: 1.5 mm

No. 91106-12



### 1x2 Teeth

12 cm

Tip width: 1.5 mm

No. 91127-12

## Adson-Brown



### Shark teeth

12 cm

Tip width: 2.5 mm

No. 91162-12

## Adson with Cross Serrations



### 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

## Anatomical and Surgical Forceps

Broad pattern with strong spring action.

## Anatomical Standard Pattern

Straight  
Serrated

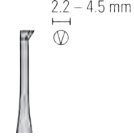
| Tip width<br>(mm) | Length<br>(cm) | Item         |
|-------------------|----------------|--------------|
| 2.5               | 11.5           | No. 91100-12 |
| 2.7               | 13             | No. 91100-13 |
| 3                 | 14.5           | No. 91100-14 |
| 3.5               | 16      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



91100-12



## Surgical Standard Pattern

Straight  
1x2 Teeth

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



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

STUDENT

## 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



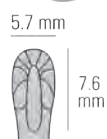
80% of  
actual size

**1x2 Teeth and  
Cross-Serrations**

15.5 cm  
Tip width: 2.1 mm

**No. 91128-15**

## Russian



**Serrated**

15 cm  
Tip dimension: 7.6 x 5.7 mm

**No. 91126-15**

## McIndoe



**Serrated**

15 cm  
Tip width: 1.2 mm

**No. 91138-15**

**% DISCOUNT**

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

STUDENT

## 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 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.

STUDENT

Crile



80% of  
actual size



**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**

Kelly



**Straight  
Serrated**

14 cm  
Tip width: 2 mm

**No. 91318-14**



**Curved  
Serrated**

14 cm  
Tip width: 2 mm

**No. 91319-14**

**% DISCOUNT**

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

STUDENT

## Rochester-Pean



80% of  
actual size



**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**

## Pean



**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 **0%**

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

STUDENT

Ochsner-Kocher

Kocher



80% of  
actual size



**Straight**  
**1x2 Teeth and Serrations**

14 cm  
Tip width: 2.2 mm

**No. 91328-14**



**Curved**  
**1x2 Teeth and Serrations**

14 cm  
Tip width: 2.2 mm

**No. 91329-14**

**Straight**  
**1x2 Teeth and Serrations**

16 cm  
Tip width: 3 mm

**No. 91328-16**

**Curved**  
**1x2 Teeth and Serrations**

16 cm  
Tip width: 3 mm

**No. 91329-16**



**Straight**  
**1x2 Teeth and Serrations**  
**Narrow**

14 cm  
Tip width: 2.2 mm

**No. 91330-14**



**Curved**  
**1x2 Teeth and Serrations**  
**Narrow**

14 cm  
Tip width: 2.2 mm

**No. 91331-14**

**% DISCOUNT**

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

STUDENT



Backhaus Towel Clamp



Round and sharp tips

9 cm

No. 91195-09



Round and sharp tips

11 cm

No. 91195-11



Round and sharp tips

13 cm

No. 91195-13

Tohoku Towel Clamp



Round and serrated tips

10 cm  
Tip width: 2.5 mm

No. 91194-10



Round and serrated tips

13 cm  
Tip width: 3 mm

No. 91194-13

DISCOUNT 0%

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

STUDENT

## Lorna Towel Clamp

## Babcock



**%** DISCOUNT

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



**Serrated**

13 cm  
Tip width: 7 mm

**No. 91196-13**



**Serrated**

16 cm  
Tip width: 6 mm

**No. 91393-16**

Allis Clamp



60% of  
actual size

5x6 Teeth

15 cm  
Tip width: 6 mm

No. 91191-15

Hose Clamp



60% of  
actual size

Cross-Serrated

15 cm  
Tip width: 4 mm

No. 91198-15

Lister Sine Clamp



60% of  
actual size

Serrated

16 cm  
Tip width: 3 mm

No. 91199-16

DISCOUNT 0%

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

STUDENT

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 115.

**Nickel-plated**

7.5 cm  
Jaw opening: 0-1 mm

**No. 91606-07**

Halsey



80% of actual size

For suture needles, see page 150-151.



**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 150-151.



**Straight**

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

**No. 91204-16**

STUDENT

# Senn-Miller

# Vessel Dilator

# Spring-Loaded Retractor



16 cm

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

No. 91790-16



16 cm

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

No. 91791-16



Angled 10°

11 cm

Tip Ø: 0.3 mm

No. 91815-11



Atraumatic blades

8.5 cm

Maximum spread: 3 cm

No. 91706-05

# Barraquer



3 cm  
Maximum spread: 1.1 cm

No. 91700-03

# Dieffenbach



Straight

35 mm

Strong pressure

No. 91850-35

DISCOUNT 0%

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

STUDENT

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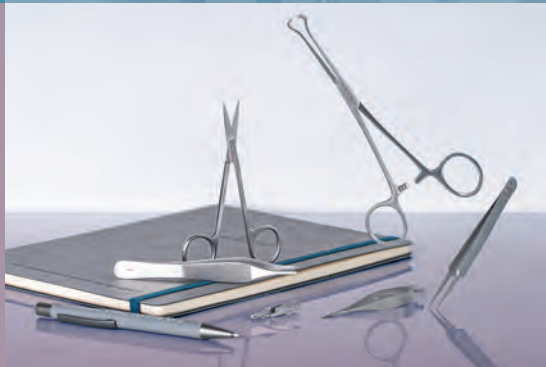
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**Fine Science Tools (USA) Inc.**

4000 East 3<sup>rd</sup> Avenue, Suite 100  
Foster City, CA 94404-4824  
USA

**Telephone** +1 800-521-2109 / +1 650-349-1636

**Fax** +1 800-523-2109 / +1 650-349-3729

**E-Mail** [info@finescience.com](mailto:info@finescience.com)

**Web** [finescience.com](http://finescience.com)



**Fine Science Tools GmbH**

Vangerowstraße 14  
69115 Heidelberg  
Germany

**Telephone** +49 62 21 - 90 50 50

**Fax** +49 62 21 - 90 50 590

**E-Mail** [europe@finescience.de](mailto:europe@finescience.de)

**Web** [finescience.de](http://finescience.de)



**InterFocus Ltd.**

Cambridge Road  
Linton, CB21 4NN  
Great Britain

**Telephone** 01223 894833

**E-Mail** [sales@surgicaltools.co.uk](mailto:sales@surgicaltools.co.uk)

**Web** [www.surgicaltools.co.uk](http://www.surgicaltools.co.uk)

 **InterFocus**  
[surgicaltools.co.uk](http://surgicaltools.co.uk)