

# MOST POPULAR ITEMS



# ORDERING INFORMATION



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Central European Time (CET)



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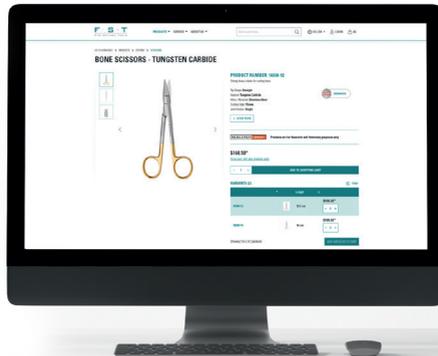
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finescience.com

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

# CHECK OUT OUR NEW WEBSHOP

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All of our European suppliers are ISO 9001 certified. All FST surgical instruments are made from the finest German stainless steel alloys (unless otherwise noted) and manufactured by skilled European craftsmen. Most surgical instruments are shown actual size. As these instruments are handcrafted, dimensions may vary slightly from those stated in this catalog.

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# FINE SCIENCE TOOLS AROUND THE WORLD

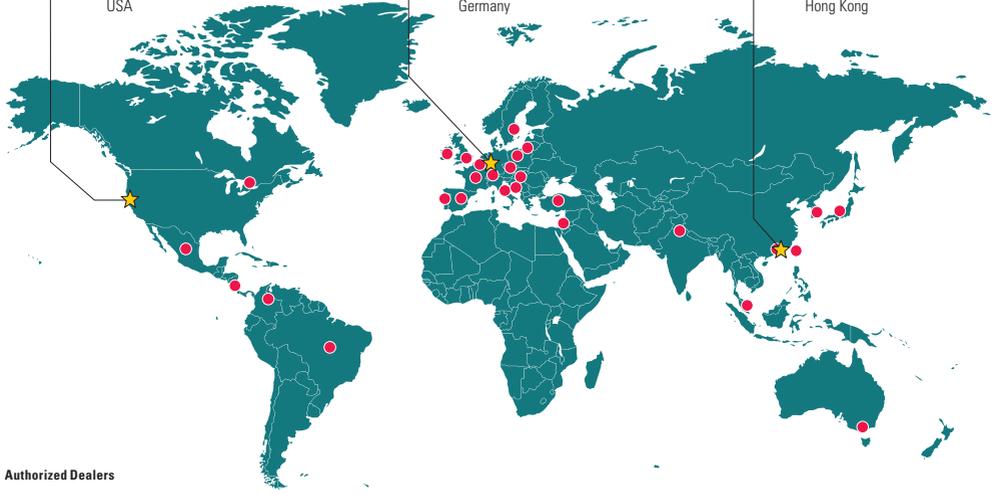
SHIPPING GLOBALLY SINCE 1974

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● Authorized Dealers

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Quality instruments with the student in mind	



# Handcrafted



## PRECISION THAT MAKES A MARK

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

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



## CUSTOM DESIGN

Have you ever thought about how wonderful it would be to have a personalized, unique instrument perfect for your needs? Please contact us to learn about our custom capabilities to manufacture any

instrument to your specific specifications and requirements. We as well have the capability to perform special modifications to our existing instruments.

# 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**

# 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 back all of our products with a 100% satisfaction guarantee. 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

## FINE SCIENCE TOOLS SERVICE

We are constantly trying to improve ourselves and our service. Our 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.

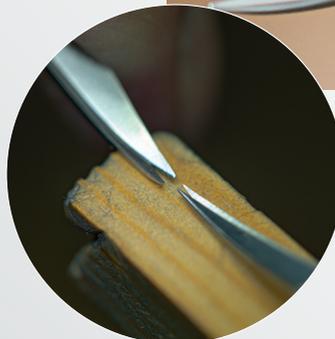


## REPAIR SERVICE

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.

# 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 tips of forceps and needles holders
- Available instruments: bone cutters, scissors, forceps, needles, needle holders, burrs

## 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 ToughCut® plus ceramic coating
- Tungsten Carbide 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)



## 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

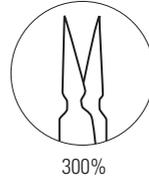


Learn more about  
our Alloys & Materials



### Micro Vannas

The short taper is ideal for small, precise cuts.



**Straight  
Sharp/Sharp**

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

**No. 15000-08**



**Curved  
Sharp/Sharp**

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

**No. 15001-08**



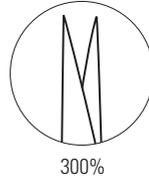
**Angled to side  
Sharp/Sharp**

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

**No. 15002-08**

### Micro Vannas

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



**Straight  
Sharp/Sharp**

8 cm  
Cutting edge: 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



**Straight  
Sharp/Sharp**

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

**No. 15003-08**



**Curved  
Sharp/Sharp**

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

**No. 15004-08**



**Angled up  
Sharp/Sharp**

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

**No. 15005-08**



**Angled to side  
Sharp/Sharp**

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

**No. 15008-08**

Vannas



**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**

### Spring Scissors



**Straight  
Sharp/Sharp**

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

**No. 15024-10**



**Curved  
Sharp/Sharp**

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

**No. 15023-10**



**Straight  
Blunt/Blunt**

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

**No. 15025-10**

**ToughCut®**



**Straight  
Sharp/Sharp**

9 cm  
Cutting edge: 16 mm

**No. 14058-09**



**Curved  
Sharp/Sharp**

9 cm  
Cutting edge: 16 mm

**No. 14059-09**

11.5 cm  
Cutting edge: 16 mm

**No. 14058-11**

11.5 cm  
Cutting edge: 16 mm

**No. 14059-11**

### Iris Scissors

Delicate pattern.



**Straight  
Sharp/Sharp**

9 cm  
Cutting edge: 16 mm

**No. 14060-09**

10.5 cm  
Cutting edge: 16 mm

**No. 14060-10**

11.5 cm  
Cutting edge: 16 mm

**No. 14060-11**



**Curved  
Sharp/Sharp**

9 cm  
Cutting edge: 16 mm

**No. 14061-09**

10.5 cm  
Cutting edge: 16 mm

**No. 14061-10**

11.5 cm  
Cutting edge: 16 mm

**No. 14061-11**



**Curved to side  
Sharp/Sharp**

9 cm  
Cutting edge: 16 mm

**No. 14062-09**

10.5 cm  
Cutting edge: 16 mm

**No. 14062-10**



**Angled to side  
Sharp/Sharp**

9 cm  
Cutting edge: 16 mm

**No. 14063-09**

11.5 cm  
Cutting edge: 18 mm

**No. 14063-11**

**Extra Fine Bonn**

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



**Straight  
Sharp/Sharp**

8.5 cm  
Cutting edge: 10 mm

**No. 14084-08**



**Straight  
Sharp/Blunt**

8.5 cm  
Cutting edge: 10 mm

**No. 14083-08**



**Curved  
Sharp/Sharp**

8.5 cm  
Cutting edge: 10 mm

**No. 14085-08**

### Extra Narrow Iris Scissors

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



**Straight  
Sharp/Sharp**

10.5 cm

Cutting edge: 16 mm

**No. 14088-10**

## Hardened Fine Iris Scissors

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



### Straight Sharp/Sharp

9 cm  
Cutting edge: 16 mm

**No. 14090-09**

11 cm  
Cutting edge: 16 mm

**No. 14090-11**



### Curved Sharp/Sharp

9 cm  
Cutting edge: 16 mm

**No. 14091-09**

11 cm  
Cutting edge: 16 mm

**No. 14091-11**

### 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**

## Tungsten Carbide



**Straight  
Sharp/Sharp**

9 cm  
Cutting edge: 16 mm

**No. 14568-09**



**Curved  
Sharp/Sharp**

9 cm  
Cutting edge: 16 mm

**No. 14569-09**

11.5 cm  
Cutting edge: 16 mm

**No. 14568-12**

11.5 cm  
Cutting edge: 16 mm

**No. 14569-12**

**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**

### 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.



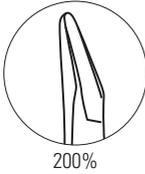
70% of actual size

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

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

### Friedmann-Pearson Rongeur

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



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

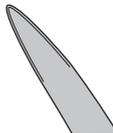


**Straight**

14 cm

Cup size: 0.5 mm

**No. 16220-14**



**Curved**

14 cm

Cup size: 0.5 mm

**No. 16221-14**

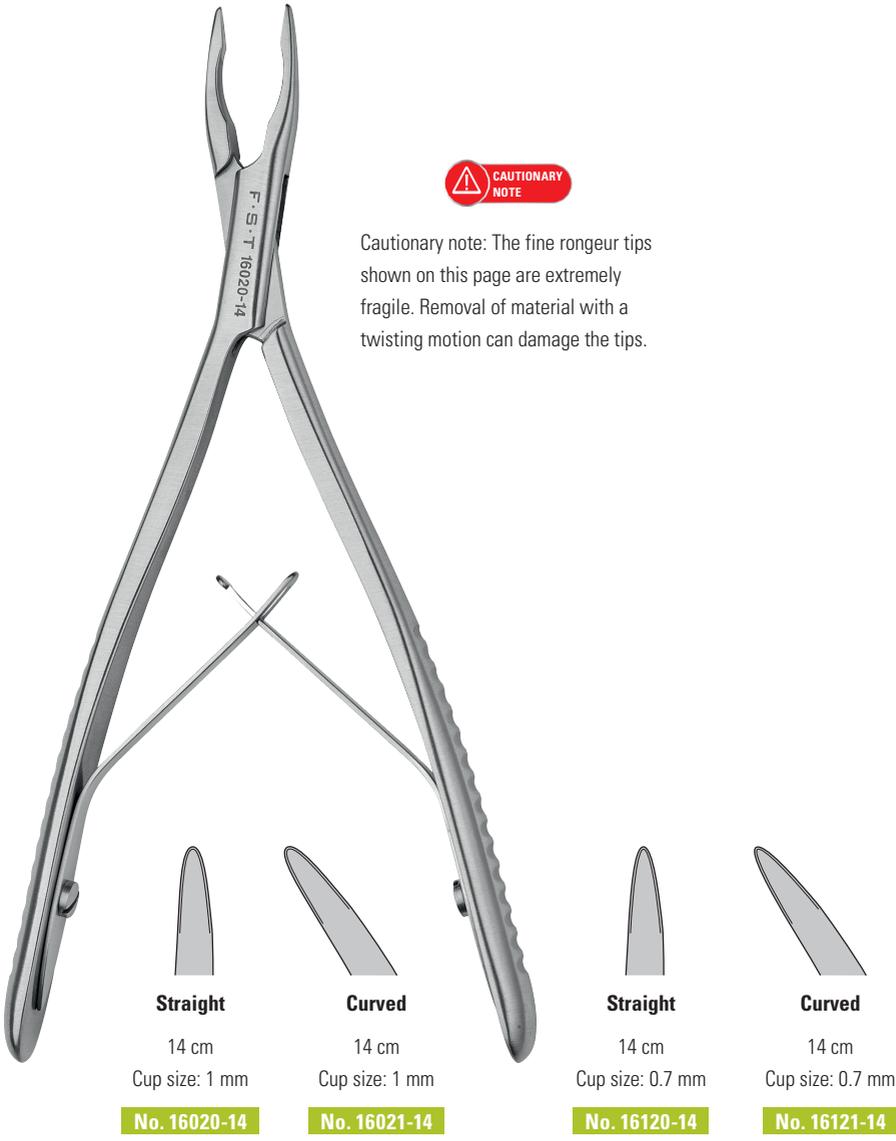
### Friedmann-Pearson Rongeur

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



**CAUTIONARY  
NOTE**

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



**Straight**

14 cm

Cup size: 1 mm

**No. 16020-14**

**Curved**

14 cm

Cup size: 1 mm

**No. 16021-14**

**Straight**

14 cm

Cup size: 0.7 mm

**No. 16120-14**

**Curved**

14 cm

Cup size: 0.7 mm

**No. 16121-14**

### Beebee Bone Scissors

Very strong jaws with sharp points.



**Straight**

10 cm

Cutting edge: 15 mm

**No. 16044-10**

## #3 Standard

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.**



12 cm

**No. 10003-12**



Box of 100 blades  
Cutting edge: 30 mm

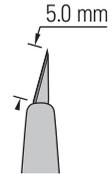
**No. 10010-00**

## 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.**



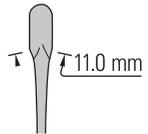
80% of  
actual size

**15° Cutting Angle**

13 cm

Cutting edge: 5 mm  
Tip thickness: 0.15 mm

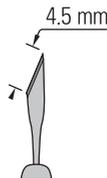
**No. 10315-12**

**Crescent blade**

14 cm

Cutting edge: 11 mm  
Tip thickness: 0.2 mm

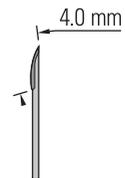
**No. 10317-14**

**22.5° Cutting angle**

13.5 cm

Cutting edge: 4.5 mm  
Tip thickness: 0.15 mm

**No. 10316-14**

**Needle blade**

14.5 cm

Cutting edge: 4 mm  
Tip thickness: 0.2 mm

**No. 10318-14**

**Dumont #5**

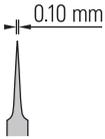
These are the most widely used Dumont forceps.  
Bevelled, very fine shanks for best visibility.



11252-40



11251-10



**Standard**

11 cm  
0.1 x 0.06 mm  
Inox

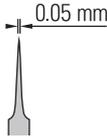
**No. 11251-20**

Dumoxel

**No. 11251-30**

Dumostar

**No. 11295-00**



**Biology**

11 cm  
0.05 x 0.02 mm  
Inox

**No. 11252-20**

Dumoxel

**No. 11252-30**

Dumostar

**No. 11295-10**

Titanium

**No. 11252-40**

**Dumont #5/45**

45° tips for improved  
visibility and control.



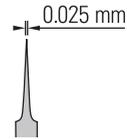
**Standard**

11 cm  
Dumoxel  
0.1 x 0.06 mm

**No. 11251-35**

**Dumont #5SF**

The finest tips ever  
produced by Dumont.



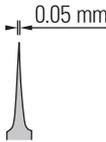
**Super fine**

11 cm  
Inox  
0.025 x 0.005 mm

**No. 11252-00**

**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**

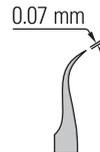
**Biology**

11 cm  
Dumostar  
0.05 x 0.02 mm

**No. 11295-51**

**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

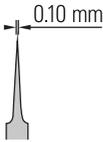
**No. 11274-20**

## Dumont 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.



*Medical #5*

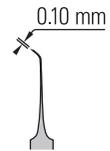


**Standard  
Straight**

11 cm  
Inox  
0.1 x 0.06 mm

**No. 11253-20**

*Medical #5/45*



**Standard  
Angled 45°**

11 cm  
Inox  
0.1 x 0.06 mm

**No. 11253-25**

*Medical #5A*



**Standard  
Off-Center**

11.5 cm  
Inox  
0.13 x 0.08 mm

**No. 11253-21**

*Medical #7*



**Standard  
Curved**

11.5 cm  
Inox  
0.17 x 0.1 mm

**No. 11273-20**

*Medical #7S*



**Standard  
Curved**

12 cm  
Inox  
0.17 x 0.1 mm

**No. 11273-22**

*Medical #5/90*



**Standard  
Angled 90°**

11 cm  
Inox  
0.1 x 0.06 mm

**No. 11253-29**

Dumont #7



11272-40



**Standard**

11.5 cm  
Dumoxel  
0.17 x 0.1 mm

**No. 11271-30**

Dumostar

**No. 11297-00**



**Biology**

11.5 cm  
Dumoxel  
0.07 x 0.04 mm

**No. 11272-30**

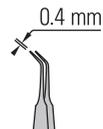
Dumostar

**No. 11297-10**

Titanium

**No. 11272-40**

McPherson Forceps



**Angled 45°**

**Smooth with platform**

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

**No. 11063-07**

Graefe Forceps



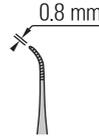
The length of all forceps is 10 cm



**Serrated Straight**

0.8 x 0.7 mm

**No. 11050-10**



**Serrated Slightly curved**

0.8 x 0.7 mm

**No. 11051-10**



**Serrated Curved**

0.8 x 0.7 mm

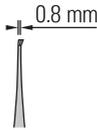
**No. 11052-10**



**Serrated Angled**

0.8 x 0.7 mm

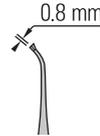
**No. 11049-10**



**1x2 Teeth Straight**

0.8 x 0.7 mm

**No. 11053-10**



**1x2 Teeth Slightly curved**

0.8 x 0.7 mm

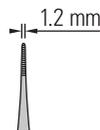
**No. 11054-10**



**1x2 Teeth Curved**

0.8 x 0.7 mm

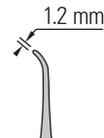
**No. 11055-10**



**Serrated Straight**

1.2 x 0.9 mm

**No. 11650-10**



**Serrated Slightly curved**

1.2 x 0.9 mm

**No. 11651-10**



**Serrated Curved**

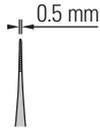
1.2 x 0.9 mm

**No. 11652-10**

## Extra Fine Graefe Forceps



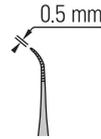
The length of all forceps is 10 cm



**Serrated  
Straight**

0.5 x 0.5 mm

**No. 11150-10**



**Serrated  
Slightly curved**

0.5 x 0.5 mm

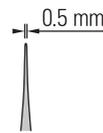
**No. 11151-10**



**Serrated  
Curved**

0.5 x 0.5 mm

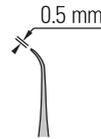
**No. 11152-10**



**Smooth  
Straight**

0.5 x 0.5 mm

**No. 11158-10**



**Smooth  
Slightly curved**

0.5 x 0.5 mm

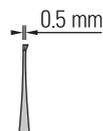
**No. 11159-10**



**Smooth  
Curved**

0.5 x 0.5 mm

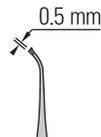
**No. 11160-10**



**1x2 Teeth  
Straight**

0.5 x 0.5 mm

**No. 11153-10**



**1x2 Teeth  
Slightly curved**

0.5 x 0.5 mm

**No. 11154-10**



**1x2 Teeth  
Curved**

0.5 x 0.5 mm

**No. 11155-10**

## STANDARD FORCEPS

### Adson

Wide, strong grip with narrow tips.



11506-12



**Straight  
Serrated**

12 cm  
1.5 x 1 mm

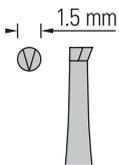
**No. 11006-12**



**Straight  
Cross Serrated  
Tungsten Carbide**

12 cm  
1.5 x 1.3 mm

**No. 11506-12**



**Straight  
1x2 Teeth**

12 cm  
1.5 x 2 mm

**No. 11027-12**



### Narrow Pattern

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

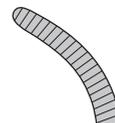


11602-14



**Straight  
Serrated**

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



**Curved  
Serrated**

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



**Halsted-Mosquito**



13108-12  
13109-12



70% of  
actual size



**Straight  
Serrated**

12.5 cm  
Tip width: 1.1 m

**No. 13008-12**

12.5 cm  
Left handed

**No. 13108-12**



**Curved  
Serrated**

12.5 cm  
Tip width: 1.1 m

**No. 13009-12**

12.5 cm  
Left handed

**No. 13109-12**

**Hartmann**



**Straight  
Serrated**

10 cm  
Tip width: 1 m

**No. 13002-10**



**Curved  
Serrated**

10 cm  
Tip width: 1 m

**No. 13003-10**

## CLAMPS & OCCLUDERS

### 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

No. 18050-50

#### Curved

35 mm

Strong pressure



No. 18051-35

#### Curved

50 mm

Strong pressure

No. 18051-50

### Schwartz Micro Serrefines

Serrated: No

#### Straight

26 mm

Strong pressure



No. 18052-01

#### Light bend

26 mm

Strong pressure



No. 18052-02

#### Sharp bend

26 mm

Strong pressure



No. 18052-03

### Stainless Steel Micro Serrefines

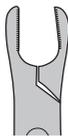
Used to obtain a clear surgical field for extended arterial cross-clamping.



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

Delicate atraumatic serration

Jaw dimensions (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 dimensions (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	

**Micro Clip Applicator with Lock**

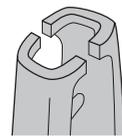
14 cm

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**

Probes and Explorers



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



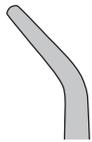
**Angled 80°**

15.5 cm

Tip Ø: 0.15 mm

**No. 10140-02**

Gross Anatomy Probe



Angled 45°

15 cm

Tip Ø: 1.2 mm

No. 10088-15

Iris Spatula



Curved

12.5 cm

20 x 1.8 x 0.3 mm

No. 10092-12



Slightly curved

12.5 cm

23 x 1.8 x 0.3 mm

No. 10093-13



Straight

12.5 cm

33 x 3 x 0.3 mm

No. 10094-13

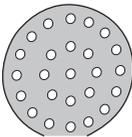
## Perforated Spoon

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

# Moria



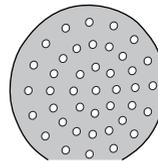
*Moria MC 17 BIS*



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**

**Pin Holder**

Light weight.



17 cm

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

**No. 26018-17****Pin Holder****Moria***Moria MC1*

12 cm

Nickel-plated  
Jaw opening: 0 to 1 mm

**No. 26016-12**

## Etched Tungsten Micro Needles

These Tungsten micro needles are drawn to an approximate 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 43.



Tip Ø: 1 µm  
Box of 10 needles

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

## 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**

### 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.



**Straight**

9 cm  
Tip width: 0.6 mm  
Lock: Yes

**No. 12060-01**

Lock: No

**No. 12060-02**



**Curved**

9 cm  
Tip width: 0.6 mm  
Lock: Yes

**No. 12061-01**

Lock: No

**No. 12061-02**

### 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**

### Halsey with Tungsten Carbide Jaws



13 cm

Tungsten Carbide jaws

Lock: Yes

**No. 12500-12**

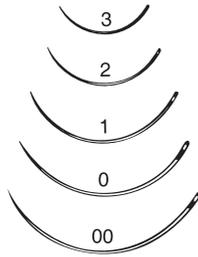
**Suture Needles**

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

**Silk Suture**

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

Braided Silk

**Sterile: No**

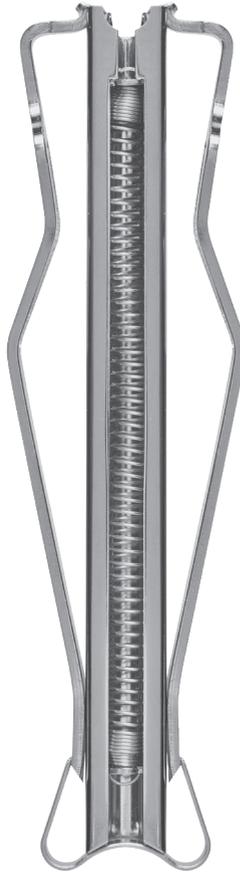
Can be ETO sterilized



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

### 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.



**Applicator**

*AutoClip® applicator*

11.5 cm

*AutoClip® Kit*

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

**No. 12020-00**

**No. 12020-09**



**Clips**

*AutoClip® clips*

9 mm

*Pkg. of 100 clips*

**No. 12022-09**

*AutoClip® clips*

9 mm

*Pkg. of 1,000 clips*

**No. 12022-19**



**Remover**

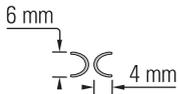
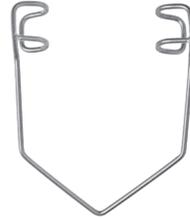
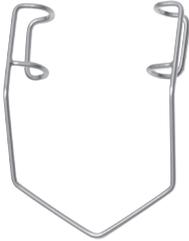
*AutoClip® remover*

12.5 cm

**No. 12023-00**

**Colibri**

**Mini-Colibri**

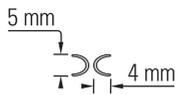


3 cm  
Max. spread: 1.5 cm

**No. 17000-03**

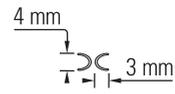
4 cm  
Max. spread: 1.5 cm

**No. 17000-04**



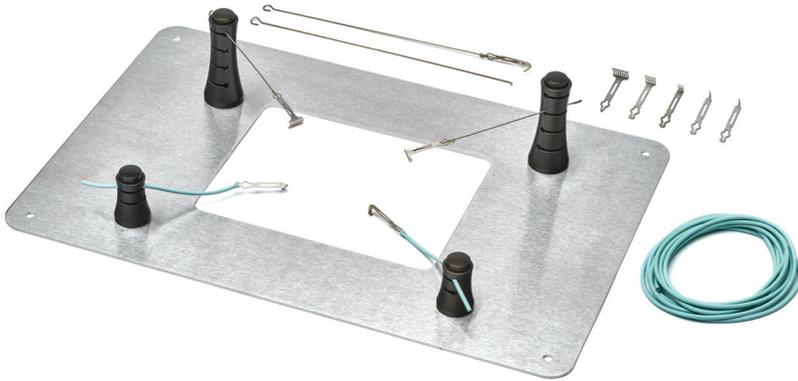
3 cm  
Max. spread: 1.2 cm

**No. 17000-02**



2 cm  
Max. spread: 1 cm

**No. 17000-01**



### 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**

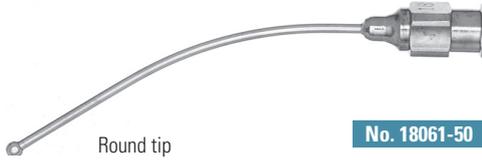
Blunt retractors, 7.5 mm wide

Pkg. of 10

**No. 18200-12**

### Reusable Gavage Feeding Needles

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



Gauge	Length (mm)	Tip Ø (mm)	Tip Shape	Shape	Mice (g)	Rats (g)	Guinea pigs (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.



No. 18060-20

Gauge	Length (mm)	Tip Shape	Shape	Mice (g)	Rats (g)	Guinea pigs (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

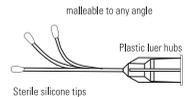
### Single Use Gavage Feeding Needles

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

**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**

**Ear Punch**

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

**Autoclavable.**



11.5 cm  
Stainless Steel and  
Anodized Aluminum  
Punch Ø: 2 mm

**No. 24214-02**

### Self Piercing Ear Tags

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

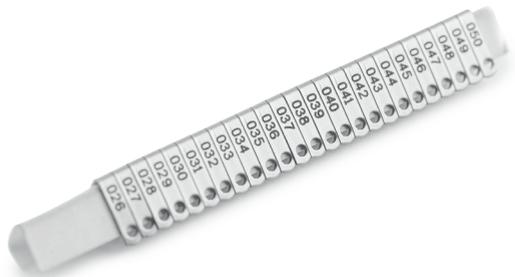


Applicator  
14 cm

No. 24220-00

Alloy: Monel  
0.8 cm  
Ear tags - #s 1 to 100

No. 24221-10



Alloy: Monel  
0.8 cm  
Ear tags - #s 1 to 500

No. 24221-50



Alloy: Monel  
0.8 cm  
Ear tags - #s 501 to 1000

No. 24221-90

**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.

### 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 (No. 29008-22)
- Ten O-rings (11200-00)
- 1 Instrument oil, 50 ml bottle (No. 29055-00)
- 1 Chain nose pliers

**No. 29000-00**

### 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.



Assorted pack, five of each size

Pkg. of 30

Material: Plastisol

**No. 29060-00**

### Colored Aluminum Cases

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

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



Blue  
18 x 9 x 3 cm

**No. 20330-00**

Red  
18 x 9 x 3 cm

**No. 20330-02**

Silver  
18 x 9 x 3 cm

**No. 20330-04**

Green  
18 x 9 x 3 cm

**No. 20330-01**

Yellow  
18 x 9 x 3 cm

**No. 20330-03**

### 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**

**Sterilization Container**

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



19 x 7 x 2 cm

**No. 20840-01**

17 x 10 x 2 cm

**No. 20840-02**

25 x 15 x 2 cm

**No. 20840-03**

25 x 15 x 4 cm

**No. 20842-03**

**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.



Blue

Green

Clear

Yellow

Pink

Orange

Purple



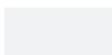
17 x 8 x 2 cm

**No. 20830-00**



17 x 8 x 2 cm

**No. 20830-01**



17 x 8 x 2 cm

**No. 20830-02**



17 x 8 x 2 cm

**No. 20830-03**



17 x 8 x 2 cm

**No. 20830-04**



17 x 8 x 2 cm

**No. 20830-05**



17 x 8 x 2 cm

**No. 20830-06**

## 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
- 2 Fine tips
- 1 Storage case

### Cautery Kit

No. 18010-00



Replacement tips

#### Single use

Straight / Standard

Sterile: Yes

Box of 10 tips

No. 18010-01



Replacement tips

#### Single use

Straight / Fine

Sterile: Yes

Box of 10 tips

No. 18010-02

**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 non-irritating 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**

**Carbon Steel Burrs**



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

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

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



## 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**

### 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.



**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

### Fine Scissors



**Straight  
Sharp/Sharp**

11.5 cm  
Cutting edge: 16 mm

No. 91460-11

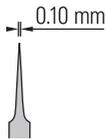


**Curved  
Sharp/Sharp**

11.5 cm  
Cutting edge: 16 mm

No. 91461-11

**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**

