

F · S · T<sup>®</sup>

FINE SCIENCE TOOLS



FINE SURGICAL INSTRUMENTS  
FOR RESEARCH™

FINE SCIENCE TOOLS CATALOG 2021

## Letter from the Managing Partner

Dear Customers,

After my uncle and founder of Fine Science Tools, Hans, handed over the management of the company to my cousin Rob and I last year, a lot has happened. Coming to FST as an “outsider”, my primary goal was to learn everything about the products, customers and the entire company. From my very first day, I learned just how much my uncle Hans and the excellent managerial team, Rob, Michael and Christina were able to grow the company over the last 45 years from a single office in Vancouver into a global enterprise, a tremendous achievement that they should be proud of. Through excellent customer service, impeccable product quality and a passionate team, FST has become a household name in surgical and microsurgical instruments and accessories.

During the COVID19 pandemic and the following worldwide lockdown, whether at their home office or on-site, our teams around the world were able to provide our customers with the instruments and accessories they needed. Under challenging circumstances, we kept our warehouses open in order to ship products to research laboratories, biotech’s and academic institutions around the world while our support staff actively continued to provide assistance to all customer questions and inquiries.

I would like to thank my colleagues, our suppliers and our customers – who have stuck with us over the years and especially, over the last few months. I am looking forward to our continued cooperation as well as a successful and healthy future for all of us.



Sincerely,

Markus Gawenda,  
Managing Partner



Rob Gawenda  
President



Michael Dosch  
Chief Executive Officer



Christina Callanta  
Chief of Operations

### Please note the following information for your safety.

All surgical instruments and devices from the Fine Science Tools product range are intended exclusively for use in experimental research laboratories and facilities or in veterinary medicine. Our Customer Support is available to answer any questions you may have about the field of application and the material properties.



<b>Scissors</b>	<b>3 – 35</b>
Spring	3 – 14
Fine	15 – 28
Surgical	29 – 35
<b>Bone Instruments</b>	<b>36 – 49</b>
Rongeurs	36 – 38
Cutters	39 – 47
Other Bone Instruments	47 – 48
Curettes & Chisels	49
<b>Scalpels &amp; Knives</b>	<b>50 – 61</b>



<b>Forceps</b>	<b>63 – 91</b>
Dumont	63 – 73
Fine	72 – 80
Moria	74
S&T	75, 77
Standard	81 – 91
<b>Hemostats</b>	<b>92 – 97</b>



<b>Probes &amp; Hooks</b>	<b>99 – 103</b>
<b>Spatulae</b>	<b>102 – 105</b>
<b>Hippocampal Tools &amp; Spoons</b>	<b>106 – 107</b>
<b>Pins &amp; Holders</b>	<b>108 – 109</b>
<b>Wound Closure</b>	<b>110 – 121</b>
Needle Holders & Suture	110 – 118
Staplers, Clips & Applicators	119 – 121
<b>Retractors</b>	<b>122 – 129</b>
<b>Vascular Instruments</b>	<b>130 – 139</b>
Clamps & Occluders	130 – 134
Ligation Aids	135
Dilation & Cannulation	136 – 139



<b>Animal Accessories</b>	<b>141 – 143</b>
Feeding Needles	141
Animal Identification	142 – 143
<b>Instrument Care &amp; Accessories</b>	<b>144 – 155</b>
Hot Bead Sterilizer	149
Instrument Cases	152 – 155
<b>Surgical Accessories</b>	<b>156 – 159</b>
Drill Accessories	157
Cauterizers	158
<b>Laboratory Accessories</b>	<b>160 – 171</b>
Tools	160 – 165
Magnifiers & Lens Paper	166 – 171



<b>Student Quality Instruments</b>	<b>173 – 179</b>
Quality instruments with the student in mind	
Scissors	173 – 174
Cutter	174
Vessel Dilator	175
Forceps	175 – 177
Hemostat, Needle Holder, Pin Holder, Scalpel Handle & Retractor	178 – 179



<b>Reference Pages</b>	<b>181 – 200</b>
Worldwide Locations	181
Scissors Test	182
Features and Alloys	183
Maintenance and Care	184 – 185
Quality Control	186
Student Line	187
Selection	188
Dumont	189
Numerical and Alphabetical Indexes	190 – 199
Additional Information	200



# Scissors, Bone Instruments & Scalpels

Spring Scissors	Pages	3 – 14
Fine Scissors	Pages	15 – 28
Surgical Scissors	Pages	29 – 35
Bone Instruments	Pages	36 – 49
Scalpels & Knives	Pages	50 – 61





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

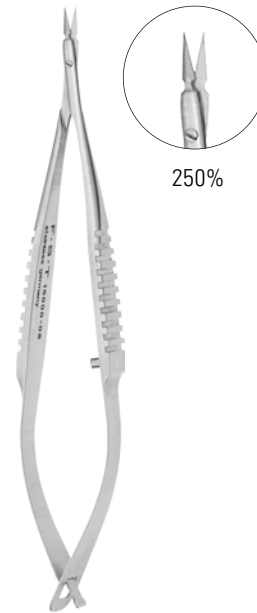
The short taper is ideal for small, precise cuts.



200%




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

- |   |   |
|---|---|
|  |  |
| Straight  | Curved  |
| No. 15000-03  | No. 15000-04  |
| \$431.00  | \$452.00  |



250%

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

- |   |   |   |
|---|---|---|
|  |  |  |
| Straight  | Curved  | Angled to side  |
| No. 15000-08  | No. 15001-08  | No. 15002-08  |
| \$292.50  | \$336.50  | \$358.50  |

**MOST POPULAR**

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



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



Straight

No. 15000-00  
\$357.00

**MOST POPULAR**



Curved

No. 15000-10  
\$374.00

**Vannas**



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



Straight

No. 15018-10  
\$291.50



Curved

No. 15019-10  
\$310.00

**Vannas-Tübingen**



Cutting edge: 5 mm  
Tip diameter: 0.075 mm



Straight  
8.5 cm

No. 15003-08  
\$303.50

**MOST POPULAR**



Angled to side  
8.5 cm

No. 15008-08  
\$321.50



Curved  
8.5 cm

No. 15004-08  
\$314.00



Angled up  
9.5 cm

No. 15005-08  
\$321.50

**Vannas Scissors with Microserrations**

Microserrated to minimize slippage.



Tip diameter: 0.1 mm



Straight

Cutting edge: 4 mm  
8.5 cm  
No. 15070-08  
\$380.00



Curved

Cutting edge: 4 mm  
8.5 cm  
No. 15071-08  
\$397.50

Cutting edge: 5 mm  
9 cm  
No. 15007-08  
\$385.00

**Miniature Vannas**

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



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



Straight

Moria 9600  
No. 15396-00  
\$662.00



Curved

Moria 9601  
No. 15396-01  
\$666.50

**Titanium Vannas**



**•TITANIUM•**

For more information see page 183.

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

**Cohan-Vannas**

Long cutting blades for a more controlled cut.



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

**ToughCut® Spring Scissors**



**TOUGH CUT**

For more information see page 183.

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



Straight

No. 15610-08  
\$560.00



Curved

No. 15615-08  
\$573.00



Angled up

No. 15617-08  
\$578.00



Straight

Sharp/Sharp  
No. 15000-02  
\$374.00

Blunt/Blunt  
No. 15000-12  
\$362.50



Curved

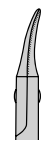
Sharp/Sharp  
No. 15000-01  
\$379.00

Blunt/Blunt  
No. 15000-11  
\$367.50



Straight

No. 15124-12  
\$523.00



Curved

No. 15123-12  
\$538.00

**Round Handled Vannas**

Round handles allow easy fingertip adjustments.



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



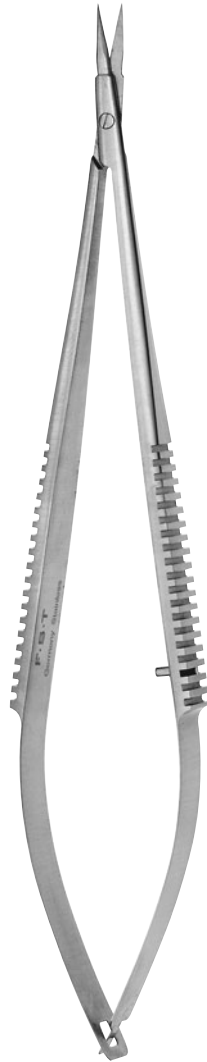
Straight

No. 15400-12  
\$392.00

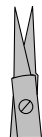


Curved

No. 15401-12  
\$410.50

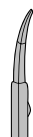


Cutting edge: 6 mm  
Tip diameter: 0.15 mm  
14 cm



Straight

No. 15020-15  
\$358.50



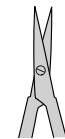
Curved

No. 15021-15  
\$370.00

**Ceramic Coated Spring Scissors**



For more information about our ceramic instruments please visit page 183



Straight

No. 15750-11  
\$417.00



Curved

No. 15751-11  
\$438.00

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Vannas-Wolff

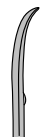
Ultra long cutting edge without sacrificing tip width.



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

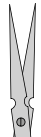
Cutting edge: 8 mm  
Tip diameter: 0.1 mm  
8.5 cm

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



Straight

Curved



Straight

Angled

Moria MC52  
No. 15370-52  
\$639.00

Moria MC50  
No. 15370-50  
\$683.00

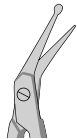
No. 15009-08  
\$404.00

No. 15006-09  
\$321.00

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



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



Angled

No. 15033-09  
\$334.00



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



Straight  
Sharp/Sharp

No. 15024-10  
\$276.50



Straight  
Blunt/Blunt

No. 15025-10  
\$261.50



Curved  
Sharp/Sharp

No. 15023-10  
\$298.00

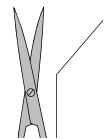


Cutting edge: 10 mm  
Tip diameter: 0.1 mm  
11.5 cm



Straight

No. 15040-11  
\$350.00



Angled up

No. 15042-11  
\$371.00

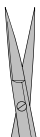
Dowell

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**Noyes**



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



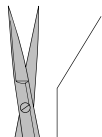
Straight

No. 15012-12  
\$283.00



Curved

No. 15011-12  
\$303.50



Angled up

No. 15013-12  
\$316.50

**Tungsten Carbide Noyes**

Tungsten carbide cutting edges provide long lasting sharpness.



**TUNGSTEN  
CARBIDE**

For more information  
see page 183.

Tungsten Carbide Cutting Edges

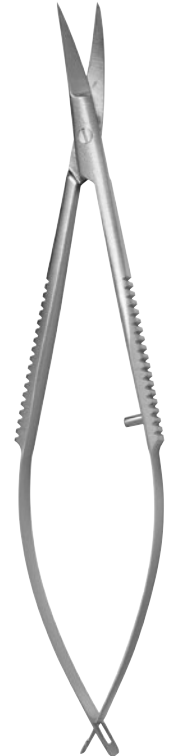
Cutting edge: 14 mm  
Tip diameter: 0.275 mm  
12 cm



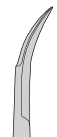
Straight

No. 15514-12  
\$410.00

**Castroviejo**



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



Sharply curved

No. 15017-10  
\$310.00

**Ceramic Coated Titanium Castroviejo**

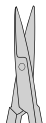


**·TITANIUM·**

For more information see page 183.

For more information about our ceramic instruments please visit page 183

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



Straight



Curved

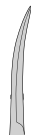
No. 15650-11  
\$494.00

No. 15651-11  
\$513.00

**Westcott**



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



Slightly curved

No. 15015-11  
\$291.50

**Fine Angled Spring Scissors**

These spring scissors aid in cutting tissues from various angles.



Angled  
Cutting edge: 2 mm  
Tip diameter: 0.1 mm  
9.5 cm

No. 15010-09  
\$402.00



Angled  
Cutting edge: 4 mm  
Tip diameter: 0.125 mm  
10 cm

No. 15010-10  
\$389.00

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**Trident II**

A re-release of a popular spring scissors now with a new innovative design for a better feel.



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



Straight



Angled

No. 15110-08  
\$379.00

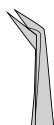
No. 15111-08  
\$392.50

**Pascheff-Wolff**

Very delicate blades.



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



Angled

Moria MC19/B  
No. 15371-92  
\$581.00

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



Straight



Curved

No. 15028-18  
\$494.00

No. 15027-18  
\$497.00



**Vitreotomy 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.**



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



200% of actual size

Straight  
Microserrations to minimize slippage.

No. 15030-14  
\$639.00



200% of actual size

Angled to side

No. 15031-14  
\$677.00



14 cm



200% of actual size

Straight  
Cutting edge: 2.2 mm  
Tip diameter: 0.15 mm

No. 15036-14  
\$1019.50



200% of actual size

Angled 90°  
Cutting edge: 1 mm  
Tip diameter: 0.1 mm

No. 15037-14  
\$1025.00

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### 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.

Blade shape: Triangular  
 Blade thickness: 0.1 mm  
 Tip thickness: 0.05-0.08 mm  
 Cutting edge: 1.5-2 mm  
 10 cm

No. 15300-00  
 \$446.00

### Biemer Scissors

These scissors are designed to securely cut vessels without slipping.



Cutting edge: 4 mm  
 8.5 cm

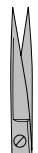
No. 15032-08  
 \$419.00

Cutting edge: 2 mm  
 13 cm

No. 15032-13  
 \$425.00

**Extra Fine Bonn**

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



Straight  
8.5 cm

Sharp/Sharp  
No. 14084-08  
\$99.00

**MOST POPULAR**



Curved  
8.5 cm

Sharp/Sharp  
No. 14085-08  
\$102.00

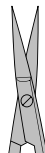
**MOST POPULAR**



Sharp/Blunt  
No. 14083-08  
\$93.50

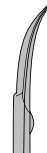
**Bonn**

Highly polished.



Straight  
Sharp/Sharp  
9 cm

No. 14184-09  
\$114.50



Curved  
Sharp/Sharp  
9 cm

No. 14185-09  
\$121.00

**ToughCut® Bonn-Strabismus**

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



For more information see page 183.

ToughCut



Straight  
Blunt/Blunt  
9 cm

No. 14084-09  
\$139.00



Curved  
Blunt/Blunt  
9 cm

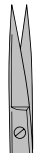
No. 14085-09  
\$147.50

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**Hardened Fine Iris Scissors**

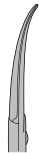
These scissors have an anti-reflective finish to reduce glare.



Straight  
Sharp/Sharp

9 cm  
**No. 14090-09**  
\$85.50

11 cm  
**No. 14090-11**  
\$99.00



Curved  
Sharp/Sharp

9 cm  
**No. 14091-09**  
\$96.50

11 cm  
**No. 14091-11**  
\$103.00

**MOST  
POPULAR**

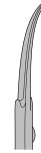
**Fine Iris Scissors**

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



Straight  
Sharp/Sharp  
10.5 cm

**No. 14094-11**  
\$109.00



Curved  
Sharp/Sharp  
10.5 cm

**No. 14095-11**  
\$120.50

Delicate pattern.



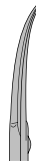
Straight  
Sharp/Sharp

9 cm  
No. 14060-09  
\$72.00

10.5 cm  
No. 14060-10  
\$74.00

11.5 cm  
No. 14060-11  
\$75.00

**MOST  
POPULAR**

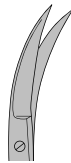


Curved  
Sharp/Sharp

9 cm  
No. 14061-09  
\$77.50

10.5 cm  
No. 14061-10  
\$78.50

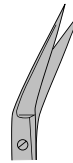
11.5 cm  
No. 14061-11  
\$80.50



Curved to side  
Sharp/Sharp

9 cm  
No. 14062-09  
\$101.00

10.5 cm  
No. 14062-10  
\$110.00



Angled to side  
Sharp/Sharp

9 cm  
No. 14063-09  
\$98.00

11.5 cm  
No. 14063-11  
\$105.00



Straight  
Sharp/Sharp

**LEFT  
HANDED**   
10.5 cm

No. 14160-10  
\$135.00



Curved  
Sharp/Sharp

**LEFT  
HANDED**   
10.5 cm

No. 14161-10  
\$140.00

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

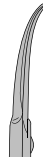


Moria



Straight  
Sharp/Sharp  
10.5 cm

Moria 4877  
No. 14370-22  
\$157.00



Shallow curve  
Sharp/Sharp  
10.5 cm

Moria 4878  
No. 14370-23  
\$162.00

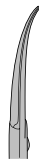


Side-view showing  
extra narrow pattern

Straight  
Sharp/Sharp  
10.5 cm

**MOST POPULAR**  
No. 14088-10  
\$89.50

Wagner

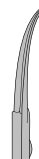


Straight  
Sharp/Sharp  
Large finger loops  
10 cm

Curved  
Sharp/Sharp  
Large finger loops  
10 cm

No. 14040-10  
\$86.50

No. 14041-10  
\$92.50

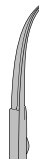


Straight  
Sharp/Sharp  
Non-serrated  
12 cm

Curved  
Sharp/Sharp  
Non-serrated  
12 cm

No. 14068-12  
\$75.00

No. 14069-12  
\$80.50



Straight  
Sharp/Sharp  
Serrated  
12 cm

Curved  
Sharp/Sharp  
Serrated  
12 cm

No. 14070-12  
\$84.50

No. 14071-12  
\$93.50

PRICES VALID OCT 1, 2020 TO SEPT 30, 2021 · PRICES IN CANADIAN CURRENCY · SEE INSIDE BACK COVER FOR ORDERING INFORMATION

**ToughCut®**



For more information see page 183.

ToughCut

**Tungsten Carbide**



For more information see page 183.

Tungsten Carbide Cutting Edges



Straight  
Sharp/Sharp

9 cm  
**MOST POPULAR**  
 No. 14058-09  
 \$80.00

11.5 cm  
**MOST POPULAR**  
 No. 14058-11  
 \$86.00



Curved  
Sharp/Sharp

9 cm  
 No. 14059-09  
 \$84.00

11.5 cm  
 No. 14059-11  
 \$89.50



Straight  
Sharp/Sharp

9 cm  
**MOST POPULAR**  
 No. 14568-09  
 \$134.00

11.5 cm  
**MOST POPULAR**  
 No. 14568-12  
 \$139.00



Curved  
Sharp/Sharp

9 cm  
 No. 14569-09  
 \$140.00

11.5 cm  
 No. 14569-12  
 \$145.00

**ToughCut® and Tungsten Carbide**



For more information see page 183.



For more information see page 183.



ToughCut and Tungsten Carbide Cutting Edges



Straight  
Sharp/Sharp

9 cm  
No. 14558-09  
\$253.50

11.5 cm  
No. 14558-11  
\$257.50



Curved  
Sharp/Sharp

9 cm  
No. 14559-09  
\$272.00

11.5 cm  
No. 14559-11  
\$276.00

**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.



For more information see page 183.



CeramaCut



Straight  
Sharp/Sharp

9 cm  
No. 14958-09  
\$335.00

11.5 cm  
No. 14958-11  
\$340.00



Curved  
Sharp/Sharp

9 cm  
No. 14959-09  
\$345.00

11.5 cm  
No. 14959-11  
\$350.00

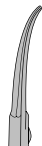
PRICES VALID OCT 1, 2020 TO SEPT 30, 2021 · PRICES IN CANADIAN CURRENCY · SEE INSIDE BACK COVER FOR ORDERING INFORMATION

Lexer-Baby



Straight  
Sharp/Blunt  
10 cm

No. 14028-10  
\$79.50



Curved  
Sharp/Blunt  
10 cm

No. 14029-10  
\$82.50



Straight  
Blunt/Blunt  
10 cm

No. 14078-10  
\$78.50



Curved  
Blunt/Blunt  
10 cm

No. 14079-10  
\$83.50

**Strabismus**



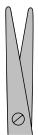
**Tungsten Carbide Strabismus**



**TUNGSTEN  
CARBIDE**

For more information  
see page 183.

Tungsten Carbide Cutting Edges



Straight  
Blunt/Blunt

9 cm  
No. 14074-09  
\$68.00

11.5 cm  
No. 14074-11  
\$81.00



Curved  
Blunt/Blunt

9 cm  
No. 14075-09  
\$73.00

11.5 cm  
No. 14075-11  
\$88.00



Straight  
Blunt/Blunt

9 cm  
No. 14574-09  
\$139.00

11 cm  
No. 14574-11  
\$145.00



Curved  
Blunt/Blunt

9 cm  
No. 14575-09  
\$146.50

11 cm  
No. 14575-11  
\$152.50

PRICES VALID OCT 1, 2020 TO SEPT 30, 2021 · PRICES IN CANADIAN CURRENCY · SEE INSIDE BACK COVER FOR ORDERING INFORMATION



**Walton**



Slightly curved  
Sharp/Sharp

9.5 cm  
No. 14077-09  
\$98.00

10.5 cm  
No. 14077-10  
\$100.00

**Stevens Tenotomy**



Straight  
Sharp/Sharp  
11 cm

No. 14064-11  
\$93.50



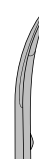
Straight  
Blunt/Blunt  
11 cm

No. 14066-11  
\$89.50



Curved  
Sharp/Sharp  
11 cm

No. 14065-11  
\$96.00



Curved  
Blunt/Blunt  
11 cm

No. 14067-11  
\$91.50

**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

No. 14173-12  
\$102.00

**Shea**

Transplant scissors with light and delicate pattern.



Curved  
Blunt/Blunt  
12 cm

No. 14105-12  
\$108.00

PRICES VALID OCT 1, 2020 TO SEPT 30, 2021 · PRICES IN CANADIAN CURRENCY · SEE INSIDE BACK COVER FOR ORDERING INFORMATION

**Dissector Scissors**

Slim blades for cutting tissue.

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

**Spencer Ligature**

Used for cutting stitches or suture.



Angled to side  
Sharp/Sharp  
Cutting edge: 8 mm  
10 cm

No. 14081-09  
\$94.50



Angled to side  
Sharp/Sharp  
Cutting edge: 12 mm  
10.5 cm

No. 14082-09  
\$98.50



Sharp/Sharp  
9 cm

No. 14076-09  
\$68.00

**Bonn Artery**

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

**Tissue Separating Scissors**



Delicate

Sharp/1.5 mm Ball  
9 cm

No. 14086-09  
\$100.00



Sharp/1.5 mm Ball  
11.5 cm

No. 14080-11  
\$96.00



Blunt/Blunt  
11.5 cm

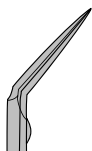
No. 14072-10  
\$96.00

See page 8 for artery-style spring scissors.

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**Kaye**

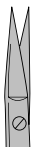
These scissors have semi-sharp outer edges to better facilitate dissection.


Sharply angled up  
Sharp/Sharp  
10.5 cm  
  
No. 14037-10  
\$109.00



Straight  
Large finger loops  
9.5 cm



Sharp/Sharp  
No. 14106-09  
\$81.50



Blunt/Blunt  
No. 14108-09  
\$78.50




Gently curved  
Blunt/Blunt  
Serrated  
Large finger loops  
10.5 cm  
  
No. 14171-10  
\$96.00

**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.



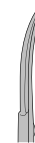
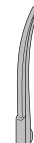
Length (cm)	Straight Sharp/Sharp		Straight Sharp/Blunt		Straight Blunt/Blunt	
12	No. 14002-12	\$49.50	No. 14001-12	\$48.50	No. 14000-12	\$47.50
13	No. 14002-13	\$51.50	No. 14001-13	\$50.50	No. 14000-13	\$49.50
14.5	No. 14002-14	\$54.50	No. 14001-14*	\$53.50	No. 14000-14	\$52.50
16.5	No. 14002-16	\$58.50	No. 14001-16	\$55.50	No. 14000-16	\$54.50
18.5			No. 14001-18	\$61.00	No. 14000-18	\$57.50
20					No. 14000-20	\$62.00

**MOST POPULAR**

\* Left-handed version also available.

**LEFT HANDED** 

No. 14008-14  
\$191.50



Length (cm)	Curved Sharp/Sharp		Curved Sharp/Blunt		Curved Blunt/Blunt	
12	No. 14005-12	\$54.50	No. 14004-12	\$53.50	No. 14003-12	\$51.00
13	No. 14005-13	\$57.50	No. 14004-13	\$54.50	No. 14003-13	\$53.50
14.5	No. 14005-14	\$58.50	No. 14004-14	\$56.50	No. 14003-14	\$54.50
16.5	No. 14005-16	\$61.00	No. 14004-16	\$58.00	No. 14003-16	\$57.50
18.5			No. 14004-18	\$67.00	No. 14003-18	\$64.00
20					No. 14003-20	\$70.00

PRICES VALID OCT 1, 2020 TO SEPT 30, 2021 · PRICES IN CANADIAN CURRENCY · SEE INSIDE BACK COVER FOR ORDERING INFORMATION

**ToughCut® Standard Pattern**



80% of actual size



For more information see page 183.

ToughCut



Straight Sharp/Blunt

13 cm  
**No. 14054-13**  
 \$91.50



17.5 cm  
**No. 14130-17**  
 \$100.00

**Tungsten Carbide Standard Pattern**



80% of actual size



For more information see page 183.

Tungsten Carbide Cutting Edges



Straight Sharp/Sharp  
 14.5 cm

**No. 14502-14**  
 \$125.50



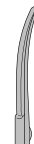
Straight Sharp/Blunt  
 14.5 cm

**No. 14501-14**  
 \$123.00



Curved Sharp/Sharp  
 14.5 cm

**No. 14505-14**  
 \$131.00



Curved Sharp/Blunt  
 14.5 cm

**No. 14504-14**  
 \$128.50

**Standard Pattern with Serrations**



80% of actual size

Straight Sharp/Blunt Serrated  
 14 cm

**No. 14007-14**  
 \$77.50

**Standard Pattern with Large Finger Loops**



Straight  
Sharp/Blunt  
Large finger loops  
14.5 cm

No. 14101-14  
\$58.50

**Tungsten Carbide Mini-Lister**



Tungsten Carbide Cutting Edges

Angled to side  
Blunt/Blunt  
Smooth  
9 cm

No. 14531-09  
\$204.00

**Lister**

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



Angled to side  
Blunt/Blunt  
Serrated  
14 cm

No. 14131-14  
\$95.00

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**Metzenbaum Baby**



Straight  
Blunt/Blunt

13 cm  
No. 14018-13  
\$93.00

14.5 cm  
No. 14018-14  
\$101.00

18 cm  
No. 14018-18  
\$112.00



Curved  
Blunt/Blunt

13 cm  
No. 14019-13  
\$99.00

14.5 cm  
No. 14019-14  
\$106.00

18 cm  
No. 14019-18  
\$117.00

**Tungsten Carbide Metzenbaum Fino**



**TUNGSTEN  
CARBIDE**

For more information  
see page 183.

**Tungsten Carbide Cutting Edges**



Straight  
Blunt/Blunt  
Ultra fine tips

14.5 cm  
No. 14508-15  
\$170.00



Straight  
Blunt/Blunt

14.5 cm  
No. 14518-14  
\$127.50

18 cm  
No. 14518-18  
\$135.00



Curved  
Blunt/Blunt  
Ultra fine tips

14.5 cm  
No. 14509-15  
\$174.00



Curved  
Blunt/Blunt

14.5 cm  
No. 14519-14  
\$137.00

18 cm  
No. 14519-18  
\$139.00

**Metzenbaum**



**ToughCut® Metzenbaum**



For more information see page 183.

ToughCut

Straight Sharp/Blunt	Straight Blunt/Blunt	Curved Blunt/Blunt
14.5 cm No. 14024-14 \$81.00	14.5 cm No. 14016-14 \$79.00	14.5 cm No. 14017-14 \$81.00
	18 cm No. 14016-18 \$84.00	18 cm No. 14017-18 \$87.00

Straight Blunt/Blunt	Curved Blunt/Blunt
14.5 cm No. 14116-14 \$82.50	14.5 cm No. 14117-14 \$87.50
18 cm No. 14116-18 \$95.00	18 cm No. 14117-18 \$99.00

PRICES VALID OCT 1, 2020 TO SEPT 30, 2021 · PRICES IN CANADIAN CURRENCY · SEE INSIDE BACK COVER FOR ORDERING INFORMATION

Mayo

ToughCut® Mayo

Tungsten Carbide Mayo



**TOUGH CUT**

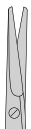
For more information see page 183.

**TUNGSTEN CARBIDE**

For more information see page 183.

ToughCut

Tungsten Carbide Cutting Edges



Straight  
Blunt/Blunt

Curved  
Blunt/Blunt

15 cm  
No. 14010-15  
\$64.00

15 cm  
No. 14011-15  
\$70.00

17 cm  
No. 14010-17  
\$66.00

17 cm  
No. 14011-17  
\$75.00



Straight  
Blunt/Blunt

Curved  
Blunt/Blunt

15 cm  
No. 14110-15  
\$95.00

15 cm  
No. 14111-15  
\$96.00

17 cm  
No. 14110-17  
\$99.00

17 cm  
No. 14111-17  
\$100.00



Straight  
Blunt/Blunt

Curved  
Blunt/Blunt

Straight  
Blunt/Blunt  
ToughCut

15 cm  
No. 14510-15  
\$127.50

15 cm  
No. 14511-15  
\$138.00

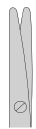
15 cm  
No. 14512-15  
\$239.00

17 cm  
No. 14510-17  
\$138.00

17 cm  
No. 14511-17  
\$143.00

17 cm  
No. 14512-17  
\$268.00

**Mayo-Stille**



Straight  
Blunt/Blunt

15 cm  
No. 14012-15  
\$69.00

17 cm  
No. 14012-17  
\$77.50



Curved  
Blunt/Blunt

15 cm  
No. 14013-15  
\$75.00

17 cm  
No. 14013-17  
\$83.50

**Mayo-Noble**



Straight  
Blunt/Blunt  
16.5 cm

No. 14014-17  
\$99.00



Curved  
Blunt/Blunt  
16.5 cm

No. 14015-17  
\$110.00

**Decapitation Scissors**

Stop guard at tips to prevent slippage.



Straight  
Blunt/Blunt  
21 cm

No. 14200-21  
\$92.50

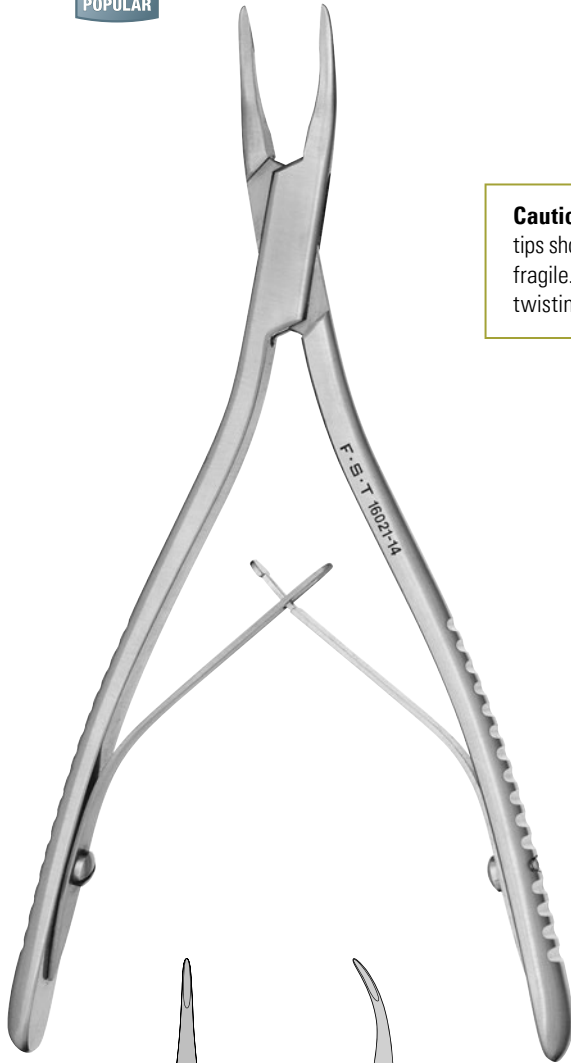
80% of  
actual size


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**Friedman-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. Handmade in our Heidelberg, Germany workshop.

**MOST POPULAR**

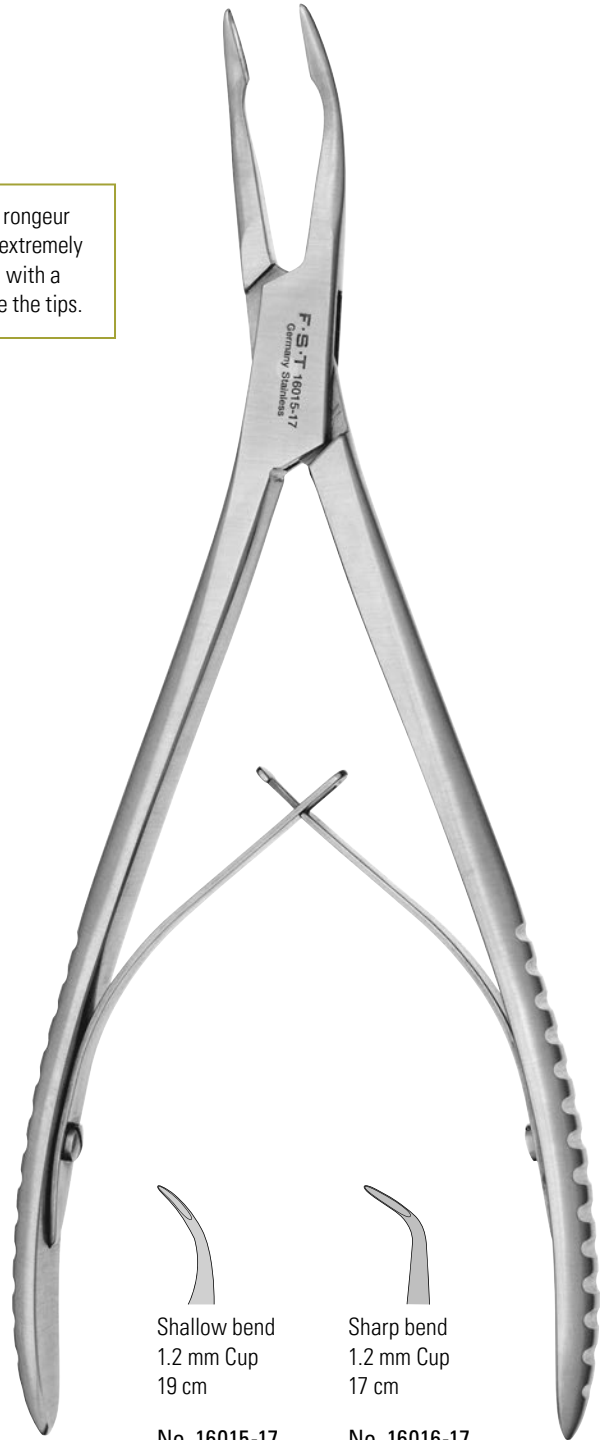


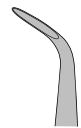
- |   |   |
|---|---|
|  |  |
| Straight<br>14 cm   | Curved<br>14 cm   |
| 0.5 mm Cup<br>No. 16220-14<br>\$363.00  | 0.5 mm Cup<br>No. 16221-14<br>\$368.00  |
| 0.7 mm Cup<br>No. 16120-14<br>\$330.00  | 0.7 mm Cup<br>No. 16121-14<br>\$335.00  |
| 1 mm Cup<br>No. 16020-14<br>\$318.00  | 1 mm Cup<br>No. 16021-14<br>\$323.00  |

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

**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. Handmade in our Heidelberg, Germany workshop.



- |   |   |
|---|---|
|  |  |
| Shallow bend<br>1.2 mm Cup<br>19 cm   | Sharp bend<br>1.2 mm Cup<br>17 cm   |
| No. 16015-17<br>\$390.00  | No. 16016-17<br>\$397.00  |

**Baby-Beyer**

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

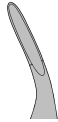
**Beyer**

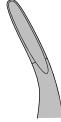
Double-action rongeur with strong jaws helps relieve hand strain.



**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  
2 mm Cup  
15 cm  
  
No. 16023-15  
\$561.00

  
Curved  
2 mm Cup  
15 cm  
  
No. 16022-15  
\$578.00

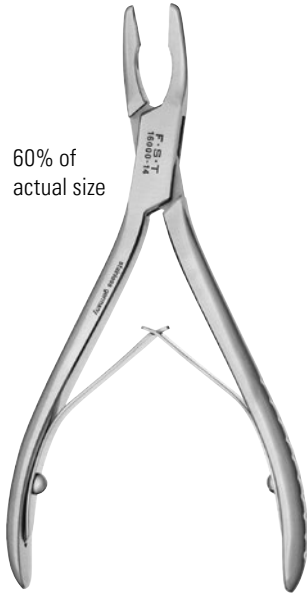
  
Curved  
2.5 mm Cup  
18 cm  
  
No. 16002-18  
\$583.00

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**Friedman**

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.

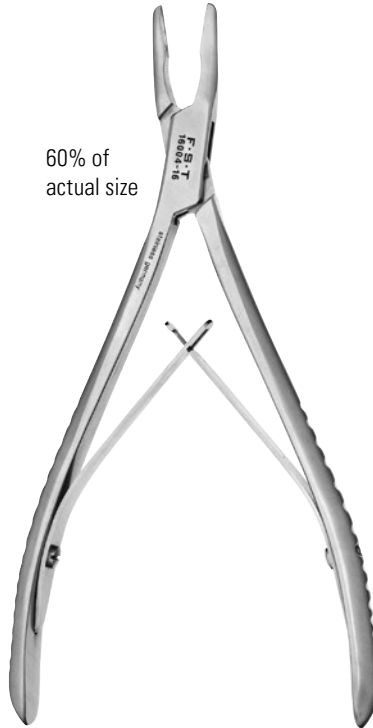
60% of actual size



**Lempert**

Extra fine jaws.

60% of actual size



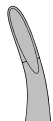
**Luer**

60% of actual size



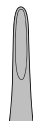
**Diameter of this circle determines cup size.**

Form an imaginary circle that will fit in the very tip of the instrument and measure its diameter.



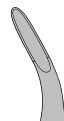
Curved  
2.5 mm Cup  
13 cm

No. 16000-14  
\$306.00



Straight  
2.5 mm Cup  
16 cm

No. 16004-16  
\$309.00



Curved  
2.5 mm Cup  
16 cm

No. 16005-16  
\$315.00



Curved  
4 mm Cup  
15 cm

No. 16001-15  
\$318.00

**Bone Trimmers**



Curved  
Cutting edge: 8 mm  
14 cm

No. 16109-14  
\$308.00

**Cartilage Cutter**

Round cutting blades for tissue, cartilage and soft bone.



Curved  
Cutting edge: 9 mm  
14 cm

No. 16107-14  
\$179.00

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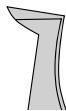


**Dumont #15a Bone Cutter**

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. **Not autoclavable.**



Hard carbon steel



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

No. 11215-01  
\$101.00

**Dumont #15a Bone Cutter  
Epoxy Coated**

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. **Not autoclavable.**



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

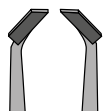
No. 11215-02  
\$63.00

**Tungsten Carbide Bone Cutter**



**TUNGSTEN  
CARBIDE**

For more information  
see page 183.



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

No. 11515-02  
\$109.00

**NEW  
ITEM**

**Micro Bone Cutter**



Angled 25°  
Cutting edge: 5 mm  
Rolling Bearing Steel handle with TPE Grip  
13 cm

No. 16103-11  
\$95.00

**NEW  
ITEM**

**Bone Forceps**

Strong cross-serrated tips for  
bone crushing and removal.

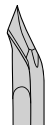


Angled  
Cross serrated  
Tip diameter: 1 mm  
11.5 cm

No. 16060-11  
\$123.50

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**Bone Nipper**



Angled  
Cutting edge: 5 mm  
11 cm

No. 16102-11  
\$153.00

**Offset Bone Nipper**

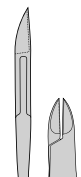
Strong jaws for cutting tough cartilage.



Angled  
Cutting edge: 7 mm  
10 cm

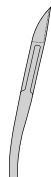
No. 16101-10  
\$159.00

**Malleus Nipper**



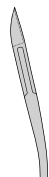
Straight  
Serrated  
Cutting edge: 9 mm  
11 cm

No. 16140-11  
\$153.00



Angled down  
Serrated  
Cutting edge: 9 mm  
11 cm

No. 16141-11  
\$177.00



Angled up  
Serrated  
Cutting edge: 9 mm  
11 cm

No. 16142-11  
\$177.00

**Bone Cutting Spring Scissors**

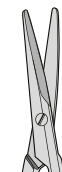
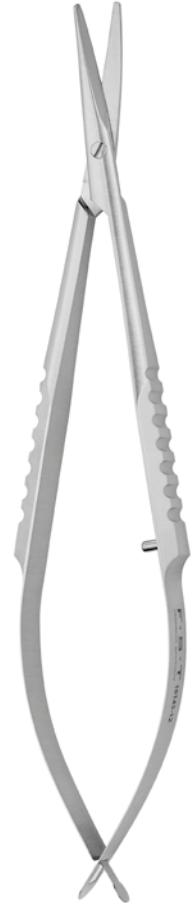


Straight  
Cutting edge: 12 mm  
13 cm

No. 16144-13  
\$134.00

**Delicate Bone Cutting Spring Scissors**

Slim, strong blades for cutting fine bones and tissues.



Curved  
Cutting edge: 12 mm  
12 cm

No. 16143-12  
\$273.00

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**Littauer Bone Cutter**



Cutting edge: 15 mm  
11 cm  
No. 16152-11  
\$120.00

Cutting edge: 17 mm  
12.5 cm  
No. 16152-12  
\$140.00

Cutting edge: 19 mm  
15 cm  
No. 16152-15  
\$142.00

**Beebe Bone Scissors**

Very strong jaws with sharp points.



**MOST POPULAR**

Straight  
Cutting edge: 15 mm  
10 cm

No. 16044-10  
\$55.50

**Tungsten Carbide Bone Scissors**

Strong heavy blades for cutting bone.



**TUNGSTEN CARBIDE**

For more information see page 183.

Tungsten Carbide Cutting Edges

Straight  
Cutting edge: 15 mm  
12.5 cm

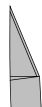
No. 16030-12  
\$172.00

Straight  
Cutting edge: 15 mm  
16 cm

No. 16030-16  
\$192.50

**Boehler**

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



Angled up 10°  
Cutting edge: 18 mm  
15 cm

No. 16130-15  
\$528.00

**Skull Flap Cutter**

One tip has a flat and narrow platform which fits between dura and skull. Other tip has sharp cutting edge.



Angled up 15°  
Cutting edge: 10 mm  
15 cm

No. 16050-15  
\$595.00

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**Cleveland Cutter**

**Liston**

Gross anatomy bone cutter.

CUTTERS



Slightly angled

Cutting edge: 14 mm  
15 cm  
**No. 16106-14**  
\$295.00

Cutting edge: 15 mm  
17 cm  
**No. 16105-16**  
\$300.00



Straight

Cutting edge: 20 mm  
14 cm  
**No. 16104-14**  
\$284.00

Cutting edge: 30 mm  
20 cm  
**No. 16104-19**  
\$357.00

**Bone Shears**



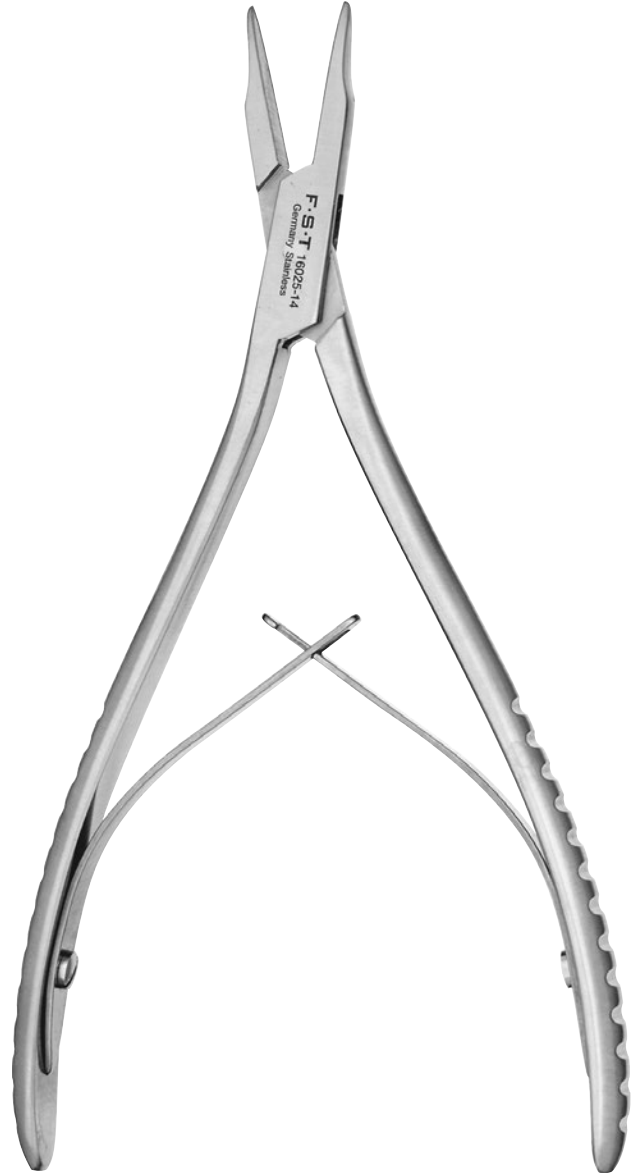
75% of actual size

Cutting edge: 6.5 cm  
24 cm

No. 16150-24  
\$99.00

**Bone Pliers**

To peel back skull flaps.



Flat surface  
15.5 cm

No. 16025-14  
\$274.00

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### Self-Holding Pin and Bone Screw Forceps

Designed with a serrated tip and grooved cup for a stable and secure grip, these forceps hold pins and screws allowing precise placement at your target area. They are compatible with all Fine Science Tools insect pins, minuten pins and bone screws.



Polished stainless steel  
14 cm

No. 26100-00  
\$127.50



### 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.

Shaft diameter: 0.86 mm  
Length: 4 mm

Pkg. of 100 screws  
**No. 19010-10**  
\$204.00

For pre-drilling use our 0.7 mm burs,  
see page 157.

Shaft diameter: 1.19 mm  
Length: 4.8 mm

Pkg. of 100 screws  
**No. 19010-00**  
\$101.00

For pre-drilling use our 0.9 mm burs,  
see page 157.

### Bone Wax

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



Box of 12 foil packs (2.5 g each)  
**No. 19009-00**  
\$173.00

**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.



**Delicate Bone Scraper**

For scraping tissue without cutting into bone.

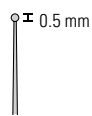
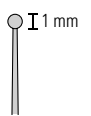
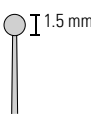
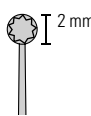


**Austin Chisel**

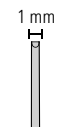
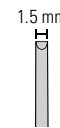
**Dissecting Chisel**




Serrations on cutting edge

			
13 cm	13 cm	13 cm	12.5 cm
No. 10080-05 \$114.50	No. 10081-10 \$111.00	No. 10082-15 \$109.00	No. 10083-20 \$133.00


16.5 cm
No. 10075-16 \$131.00

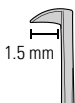
	
16 cm	16 cm
No. 10096-16 \$154.50	No. 10097-16 \$148.00


12.5 cm
No. 10095-12 \$69.00

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**Von Graefe Knife**

Used for cutting dura.



Angled 90°  
Cutting edge: 1.5 mm  
13 cm

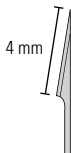
No. 10059-13  
\$95.50

**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.

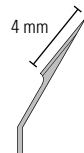


Cutting edge: 4 mm  
12.5 cm



Straight

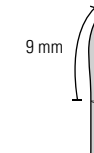
No. 10055-12  
\$123.50



Angled 30°

No. 10056-12  
\$129.00

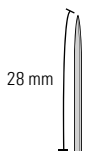
**Sichel**



Cutting edge: 9 mm  
12 cm

No. 10073-14  
\$111.00

**Von Graefe Knife**



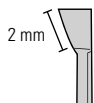
28 mm

Cutting edge: 28 mm  
13 cm

No. 10370-13  
\$136.00



200%

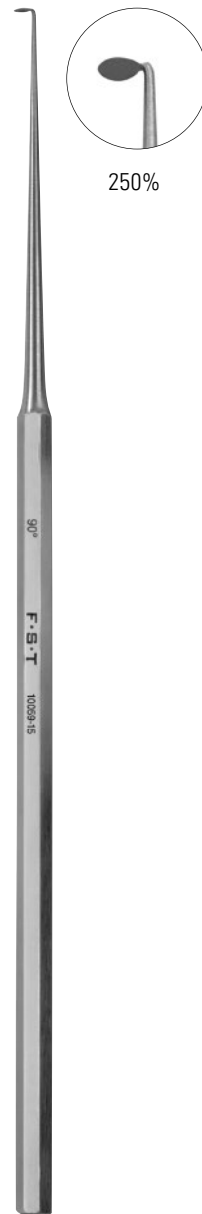


Side blade 20°  
Cutting edge: 2 mm  
15 cm

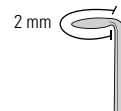
No. 10058-15  
\$154.00

**Circle Knife**

Sharp cutting edge around tip.



250%



Angled 90°  
Cutting edge: 2 mm  
16 cm

No. 10059-15  
\$156.50

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**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
- **Autoclavable**



Ceramic Blade

45° Cutting Edge  
Cutting edge: 8 mm  
33 x 6 x 0.5 mm

Pkg. of 5 blades  
No. 10025-45  
\$140.50

Aluminum Alloyed Handle

12.5 cm  
No. 10025-50  
\$10.50

**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.



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

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



Cutting angle: 30°  
No. 10100-30  
\$525.50



Cutting angle: 45°  
No. 10100-45  
\$520.00

### 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:**  
 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.

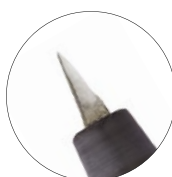


150%

Wood Dowel  
 Straight  
**Not autoclavable**

Approximate blade length: 6 mm  
 No. 10110-01  
 \$115.50

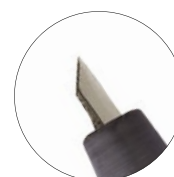
Approximate blade length: 12 mm  
 No. 10110-03  
 \$112.50



150%

Plastic Dowel  
 Approximate blade length: 6 mm  
**Autoclavable**

Straight  
 No. 10110-05  
 \$147.00



150%

Plastic Dowel  
 Approximate blade length: 6 mm  
**Autoclavable**

Angled  
 No. 10110-07  
 \$156.50

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**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



Dissection knife

Cutting edge: 13 cm  
28 cm  
No. 10157-13  
\$30.00

Cutting edge: 15 cm  
30 cm  
No. 10157-15  
\$33.00

Cutting edge: 18 cm  
33 cm  
No. 10157-18  
\$40.00

40% of actual size





Brain sectioning knife

Cutting edge: 30 cm  
45 cm  
No. 10152-30  
\$65.00

**Blade Holders and Breakers**



  
 Flat surface  
 Jaw width: 4 mm  
 11 cm  
 No. 10052-11  
 \$240.00

  
 Surface with concave  
 and convex jaws  
 Jaw width: 4 mm  
 Handle diameter: 5.5 mm  
 9 cm  
 No. 10053-09  
 \$456.50  
 Handle diameter: 8 mm  
 13 cm  
 No. 10053-13  
 \$475.00

**Breakable Carbon Steel Blades**

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

**Not autoclavable.**

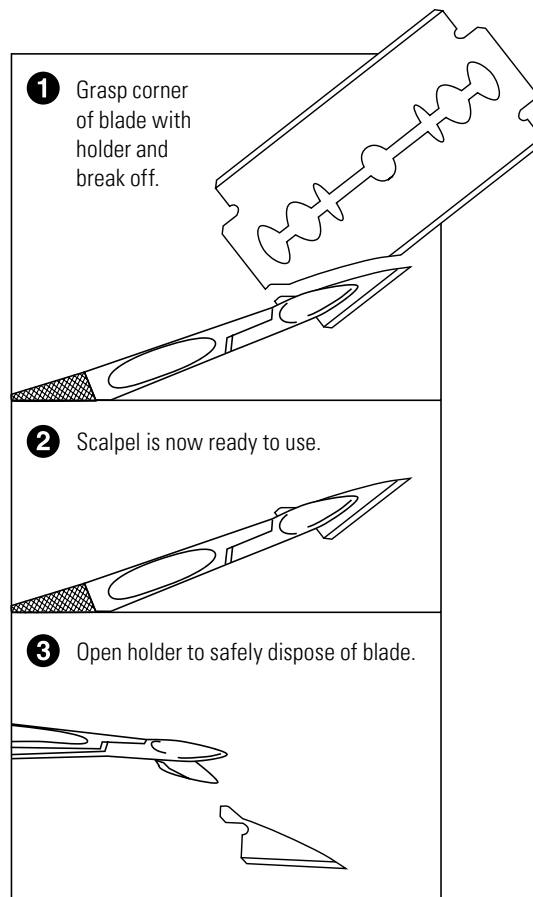


Blade thickness: 0.1 mm

Box of 10 blades  
 No. 10050-00  
 \$21.50

**Create Your Own Blade**

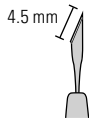
With these blade holders/breakers and our special carbon steel blades, No. 10050-00, you can produce microblades in sizes that meet your own individual needs.



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



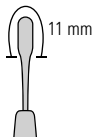
Cutting angle: 22.5°  
Tip thickness: 0.15 mm  
Cutting edge: 4.5 mm  
13.5 cm

No. 10316-14 **MOST POPULAR**  
\$24.50



Cutting angle: 15°  
Tip thickness: 0.15 mm  
Cutting edge: 5 mm  
13 cm

No. 10315-12 **MOST POPULAR**  
\$29.00



Crescent blade  
Tip thickness: 0.20 mm  
Cutting edge: 11 mm  
14 cm

No. 10317-14  
\$58.50



Needle blade  
Tip thickness: 0.20 mm  
Cutting edge: 4 mm  
14.5 cm

No. 10318-14  
\$78.50

**Interchangeable Carbon Steel Blades**

**Not autoclavable.**



Handle for  
Interchangeable  
Blades

9.5 cm  
No. 10035-00  
\$63.00

12.5 cm  
No. 10035-12  
\$64.00



Angled blade  
Carbon steel  
Cutting edge: 10 mm

Pkg. of 5 blades  
No. 10035-15  
\$28.50



Curved blade  
Carbon steel  
Cutting edge: 10 mm

Pkg. of 5 blades  
No. 10035-20  
\$28.50



Small flat blade  
Carbon steel  
Cutting edge: 1.5 mm

Pkg. of 5 blades  
No. 10035-05  
\$28.00



Large flat blade  
Carbon steel  
Cutting edge: 2.75 mm

Pkg. of 5 blades  
No. 10035-10  
\$31.00



Cane blade  
Carbon steel  
Cutting edge: 12 mm

Pkg. of 5 blades  
No. 10035-25  
\$25.00



Arc blade  
Carbon steel  
Cutting edge: 12 mm

Pkg. of 5 blades  
No. 10035-30  
\$60.00

**Scalpel with Plastic Handle #4**

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



#4 Plastic  
13.5 cm

No. 10008-13  
\$66.00

**Standard Scalpel Handle #4 Solid**

Especially suitable for large dissections.



#4 Solid  
13 cm

No. 10004-13  
\$19.50

**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. Not autoclavable.**



Box of 100 blades  
No. 10020-00  
\$71.50



Box of 100 blades  
No. 10021-00  
\$71.50



Box of 100 blades  
No. 10022-00  
\$71.50



Box of 100 blades  
No. 10023-00  
\$71.50

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**Standard Scalpel Handle #3 Solid**



#3  
12 cm

No. 10003-12  
\$21.00



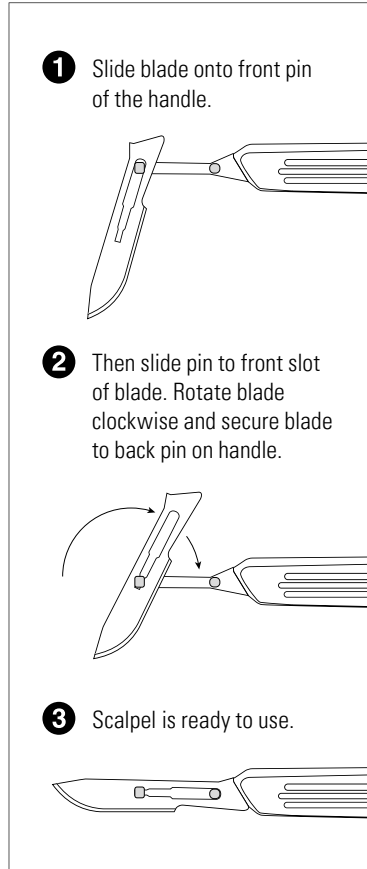
**Secure Scalpel Handle #3**

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



#3  
12 cm

No. 10003-13  
\$30.00



**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.**  
**Not autoclavable.**



Box of 100 blades  
No. 10010-00  
\$71.50



Box of 100 blades  
No. 10011-00  
\$71.50



Box of 100 blades  
No. 10012-00  
\$71.50



Box of 100 blades  
No. 10015-00  
\$71.50

**Short Scalpel  
Handle #7 Solid**



#7 short  
12 cm

No. 10007-12  
\$27.00

**Standard Scalpel  
Handle #7 Solid**



#7 long  
16.5 cm

No. 10007-16  
\$30.00

**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

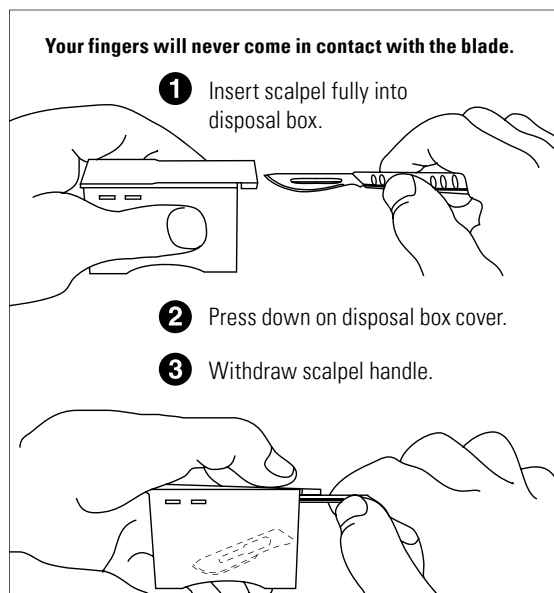
No. 10002-00  
\$15.00

**Scalpel Blade Removal 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.

Capacity approximately 80 blades  
7.5 x 5 x 2.5 cm

Carton of 10 boxes  
No. 10002-50  
\$39.00



Gross Anatomy Blade and Handle



7.5 cm

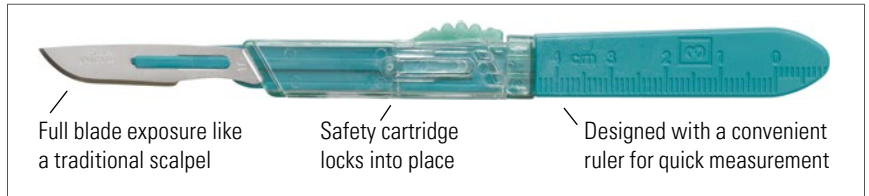
Box of 100 blades  
No. 10060-00  
\$98.00

13 cm

No. 10060-13  
\$22.50

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  
No. 10000-10  
\$40.00

#11 scalpels  
Pkg. of 10  
No. 10000-11  
\$40.00

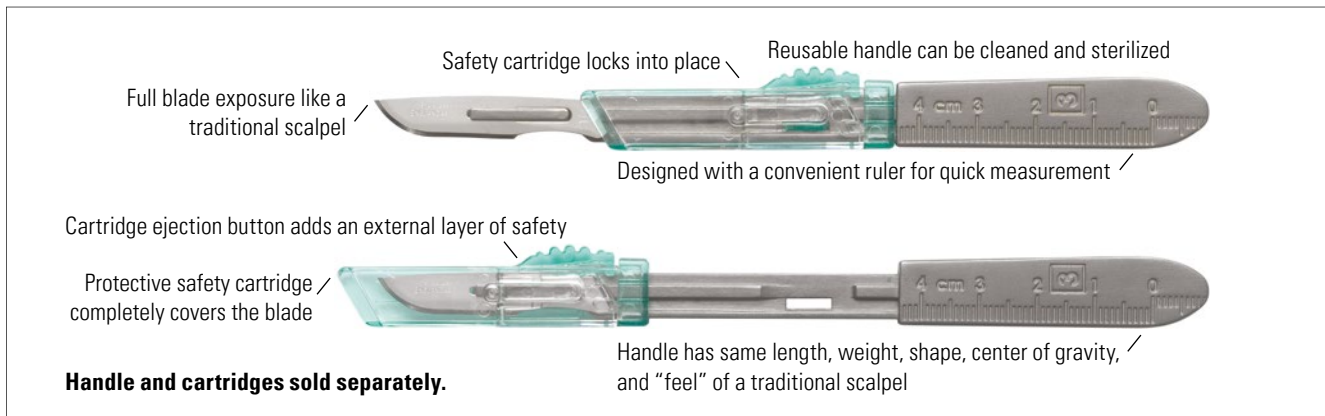
#15 scalpels  
Pkg. of 10  
No. 10000-15  
\$40.00

Plastic handle with stainless steel blades 14 cm

Scalpel shown with safety cartridge closed and locked into place.

### Safety Scalpel Handle #3 and 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



Teflon coated stainless steel  
12.5 cm

No. 10006-12  
\$29.00

#### Safety Scalpel Blade Cartridges



#10 blades  
Pkg. of 10  
No. 10010-10  
\$40.00



#11 blades  
Pkg. of 10  
No. 10011-10  
\$40.00



#15 blades  
Pkg. of 10  
No. 10015-10  
\$40.00



Scalpel blade shown with safety cartridge closed and not attached to handle.

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

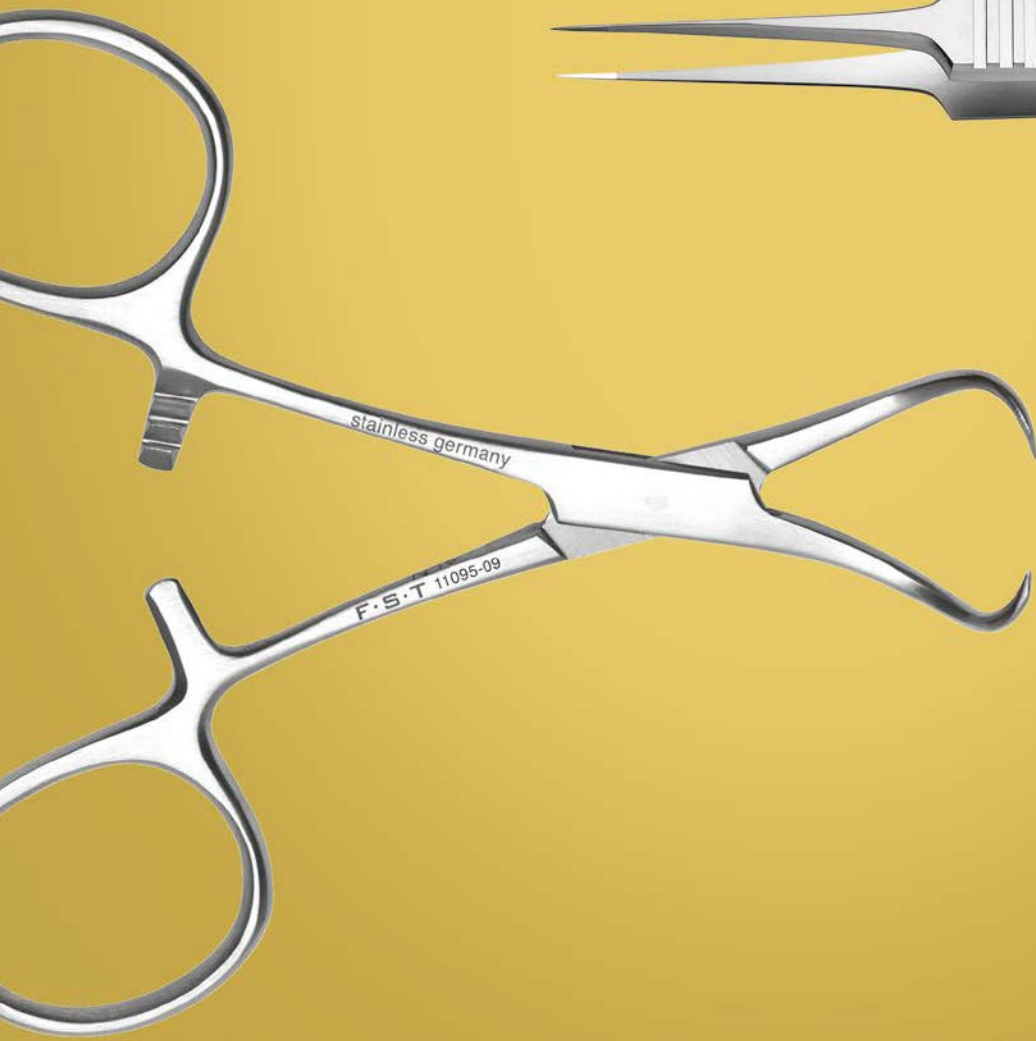
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## Forceps & Hemostats

Dumont	Pages	63 – 73
Fine	Pages	72 – 80
Moria	Page	74
S&T	Pages	75, 77
Standard	Pages	81 – 91
Hemostats	Pages	92 – 97

*See page 189 for alloy and additional information.*



**Dumont #5SF**

The finest tips ever produced by Dumont.



**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.



**Dumont #5 Ceramic Coated**

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



For more information about our ceramic instruments please visit page 183

**Dumont #5CO**

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



For information on Dumont alloys and tip styles, see page 189.

**MOST POPULAR**

Super fine tip  
0.025 x 0.005 mm  
Inox  
11 cm

No. 11252-00  
\$115.50

Biology tip  
0.05 x 0.01 mm  
Inox  
11 cm

No. 11254-20  
\$65.00

Biology tip  
0.05 x 0.01 mm  
Ceramic coated inox  
11 cm

No. 11252-50  
\$110.00

Biology tip  
0.05 x 0.01 mm  
Dumostar  
11 cm

No. 11295-20  
\$81.00

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**Dumont 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



Straight  
0.10 x 0.06 mm  
Inox  
11 cm

Medical #5  
No. 11253-20  
\$46.50



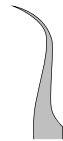
Off-center  
0.13 x 0.08 mm  
Inox  
11.5 cm

Medical #5A  
No. 11253-21  
\$50.50



Short curve  
0.17 x 0.10 mm  
Inox  
12 cm

Medical #7S  
No. 11273-22  
\$56.50



Curved  
0.17 x 0.10 mm  
Inox  
11.5 cm

Medical #7  
No. 11273-20  
\$58.50



Angled 45°  
0.10 x 0.06 mm  
Inox  
11 cm

Medical #5/45  
No. 11253-25  
\$62.00



Angled 90°  
0.10 x 0.06 mm  
Inox  
11 cm

Medical #5/90  
No. 11253-29  
\$63.00

**Dumont #55**

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



Biology tip  
0.05 x 0.02 mm  
11 cm

Inox  
**No. 11255-20**  
\$51.50

Dumostar  
**No. 11295-51**  
\$78.00

**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 tip  
0.10 x 0.06 mm  
Inox  
11 cm

**No. 11251-23**  
\$102.50

Biology tip  
0.05 x 0.02 mm  
Inox  
11 cm

**No. 11252-23**  
\$108.00

For information on Dumont alloys and tip styles, see page 189.

**Dumont #5**

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



Standard tip  
0.10 x 0.06 mm  
11 cm

**MOST POPULAR**

Inox  
**No. 11251-20**  
\$43.50

Dumoxel  
**No. 11251-30**  
\$42.00

Dumostar  
**No. 11295-00**  
\$64.00

Carbon  
0.08 x 0.04 mm  
**Not autoclavable**  
**No. 11251-10**  
\$45.50

Biology tip  
0.05 x 0.02 mm  
11 cm

Inox  
**No. 11252-20**  
\$51.50

**MOST POPULAR**

Dumoxel  
**No. 11252-30**  
\$47.50

Dumostar  
**No. 11295-10**  
\$75.00

**TITANIUM**  
**No. 11252-40**  
\$62.00

FORCEPS

**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.

**Dumont #5XL**

For information on Dumont alloys and tip styles, see page 189.



Side View



Standard tip  
0.10 x 0.06 mm  
Inox  
12 cm

No. 11251-21  
\$47.00

Biology tip  
0.05 x 0.02 mm  
Inox  
12 cm

No. 11252-21  
\$55.00

Standard tip  
0.10 x 0.06 mm  
Inox  
15 cm

No. 11253-10  
\$74.00

**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. **Autoclavable.**



Standard tip  
0.10 x 0.06 mm  
Inox  
11 cm

No. 11253-27  
\$80.00

**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 tip  
0.10 x 0.06 mm  
Teflon coated inox  
11 cm

No. 11626-11  
\$57.50

**Dumont #5/45**

45° tips for improved visibility and control.



Standard tip  
0.10 x 0.06 mm  
Dumoxel  
11 cm

No. 11251-35  
\$48.50

**MOST POPULAR**

**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.



400%

1 mm from tip to bend  
Upper tip: 0.10 x 0.08 mm  
Lower tip: 0.10 x 0.02 mm  
Dumoxel  
11.5 cm

No. 11251-33  
\$69.50

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**Dumont #3**

Tapered and sturdy shanks.



Standard tip  
0.17 x 0.10 mm  
12 cm

Dumoxel  
No. 11231-30  
\$41.00

Dumostar  
No. 11293-00  
\$62.00

**Dumont #3c**



Standard tip  
0.17 x 0.10 mm  
Inox  
11 cm

No. 11231-20  
\$39.00

**Dumont #6**

Sharply angled tips for access to difficult areas.



Standard tip  
0.17 x 0.10 mm  
Inox  
11.5 cm

No. 11260-20  
\$72.00

**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.



For information on Dumont alloys and tip styles, see page 189.

**Dumont #7**



**Dumont #7  
Ceramic Coated**



For more information about our ceramic instruments please visit page 183

**Dumont #7B**



FORCEPS

Biology tip  
0.07 x 0.03 mm  
Inox  
11 cm

No. 11274-20  
\$61.50

Standard tip  
0.17 x 0.10 mm  
11.5 cm

Dumoxel  
No. 11271-30  
\$47.50

Dumostar  
No. 11297-00  
\$82.50

Biology tip  
0.07 x 0.04 mm  
11.5 cm

Dumoxel  
No. 11272-30  
\$58.00

Dumostar  
No. 11297-10  
\$79.50

**TITANIUM**

No. 11272-40  
\$68.50

Biology tip  
0.07 x 0.04 mm  
Ceramic coated inox  
11 cm

No. 11272-50  
\$93.50

Standard tip  
Serrated  
0.17 x 0.10 mm  
Inox  
11 cm

No. 11270-20  
\$56.50

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**Dumont #4**

Similar to #5, but with broader shanks.



Standard tip  
0.13 x 0.08 mm  
Dumoxel  
11 cm

No. 11241-30  
\$43.50

Dumostar  
No. 11294-00  
\$62.00

Biology tip  
0.06 x 0.04 mm  
Dumoxel  
11 cm

No. 11242-40  
\$46.50

**Dumont #2  
Laminectomy Forceps**

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



0.40 x 0.02 mm  
Inox  
12 cm

No. 11223-20  
\$62.00

**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.



Tip width: 1.5 mm  
Epoxy coated Inox  
12 cm

No. 11220-21  
\$32.00

**Dumont AA**

**Dumont AA  
Epoxy Coated**

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



0.4 x 0.2 mm  
Inox  
12.5 cm  
  
No. 11210-20  
\$33.00



0.4 x 0.2 mm  
Epoxy coated inox  
12.5 cm  
  
No. 11210-10  
\$39.00

For information on Dumont alloys and tip styles, see page 189.

**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 tip  
0.20 x 0.12 mm  
Inox  
13.5 cm  
  
No. 11203-23  
\$44.50



Biology tip  
0.10 x 0.06 mm  
Dumoxel  
13.5 cm  
  
No. 11200-33  
\$43.00



Angled 45°

No. 11203-25  
\$51.50

FORCEPS



**Dumont Mini Forceps**



0.12 x 0.07 mm Inox 7 cm	0.14 x 0.06 mm Inox 7 cm	0.09 x 0.05 mm Inox 8.2 cm
Style 3 No. 11200-10 \$37.00	Style 4 No. 11200-12 \$39.00	Style 5 No. 11200-14 \$35.00

**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.



0.10 x 0.06 mm 11 cm	0.05 x 0.02 mm 11 cm
No. 11412-11 \$129.00	No. 11413-11 \$138.00

**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  
\$3.00



**Fine Forceps Broad Shanks**

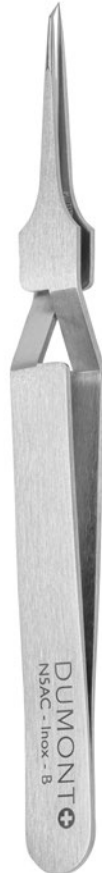
Straight forceps with sturdy coarse tips.



0.2 x 0.12 mm  
12 cm

No. 11445-12  
\$78.50

**Dumont #5AC**



Biology Tip  
0.07 x 0.02 mm  
Inox  
Type #5 Anti-Capillary  
11.5 cm

No. 11258-20  
\$76.00

**NEW  
ITEM**

**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.



0.08 x 0.04 mm  
11.5 cm

No. 11480-11  
\$78.50



0.10 x 0.06 mm  
11 cm

No. 11485-11  
\$81.50



0.20 x 0.12 mm  
11.5 cm

No. 11487-11  
\$88.50

FORCEPS

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

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



Moria

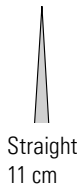


Moria



Moria

Tip width: 0.5 mm  
Blunt  
10 cm



Straight  
11 cm

Moria MC40  
No. 11370-40  
\$283.50



Curved  
11 cm

Moria MC40/B  
No. 11370-42  
\$288.50



Straight  
13 cm

Moria 9980  
No. 11399-80  
\$233.00



Curved  
13 cm

Moria 9987  
No. 11399-87  
\$238.00



Smooth  
Moria MC32/B  
No. 11373-22  
\$205.00



Smooth  
Moria MC31/B  
No. 11373-12  
\$211.00



Microerrated  
Moria MC32  
No. 11370-32  
\$211.00



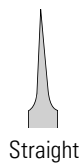
Microerrated  
Moria MC31  
No. 11370-31  
\$218.50

**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.

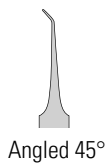


0.3 x 0.25 mm  
11 cm



Straight

No. 00108-11  
\$297.00



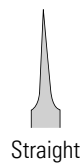
Angled 45°

No. 00109-11  
\$324.50



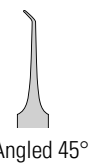
The gripping surface is similar to a match head.

0.3 x 0.25 mm  
11 cm



Straight

No. 00632-11  
\$310.00

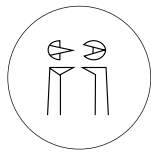


Angled 45°

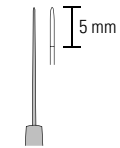
No. 00649-11  
\$363.50

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**Bonn**

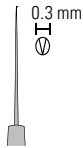


20x magnification



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

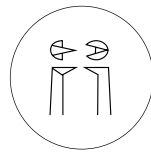
No. 11083-07  
\$307.00



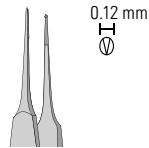
1x2 teeth  
Tip width: 0.45 mm  
Teeth width: 0.1 mm  
7 cm

No. 11084-07  
\$357.50

**Mirror Finish Bonn Forceps**



20x magnification

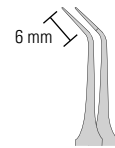


Straight  
1x2 teeth  
Tip width: 0.12 mm  
Partly polished  
10 cm

No. 11090-10  
\$219.00

**NEW  
ITEM**

**McPherson Forceps**

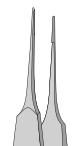


Angled 45°  
Smooth  
Tip width: 0.4 mm  
Platform  
9 cm

No. 11063-07  
\$168.00

**MOST  
POPULAR**

**Mirror Finish Suture Tying Forceps**



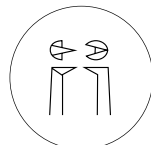
Straight  
Tip diameter: 0.3 mm  
Tying Platform: 5 mm  
Partly polished  
10 cm

No. 11093-10  
\$183.00

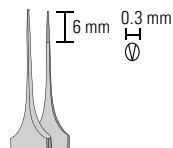
**NEW  
ITEM**

**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  
Tip width: 0.3 mm  
Platform with 1x2 teeth  
9 cm

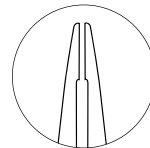
No. 11090-09  
\$309.00

**Suture Tying Forceps**

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



S&T®

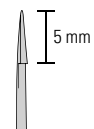


Tip diameter: 0.3 mm  
Tying platform: 6 mm  
13.5 cm

No. 00272-13  
\$341.00

**Suture Tying Forceps**

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



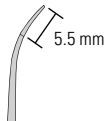
Tip diameter: 0.5 mm  
Tying platform: 5 mm  
10 cm

No. 18025-10  
\$155.50

FORCEPS

**Round Handled Suture Tying Forceps**

Round handles allow easy fingertip adjustments.

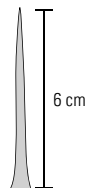
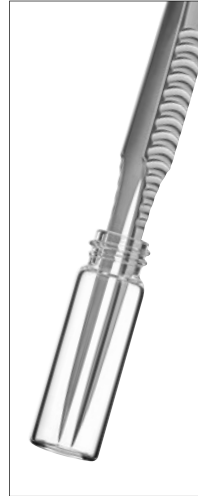


Tip diameter: 0.35 mm  
Tying platform: 5.5 mm  
10.5 cm

No. 18026-10  
\$294.50

**Vial Forceps**

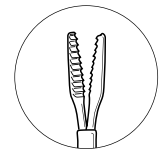
Tips taper for 6 cm allowing easy access to specimens in vials.



Tip diameter: 0.5 mm  
15 cm

No. 11006-15  
\$192.00

**Vitro Grasping Forceps**



Serrated  
Tip diameter: 0.7 mm  
14 cm

No. 11900-14  
\$939.00

**Graefe Forceps**



Tip width: 0.6 mm  
7 cm



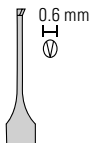
Straight  
Serrated

No. 11064-07  
\$79.50



Curved  
Serrated

No. 11065-07  
\$84.50



Straight  
1x2 teeth

No. 11066-07  
\$86.50



Curved  
1x2 teeth

No. 11067-07  
\$89.50

**Bishop-Harman**

Extra light, fenestrated handles ensure a good grip.

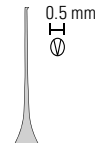


Tip width: 0.5 mm  
8.5 cm



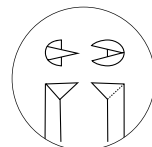
Serrated

No. 11069-08  
\$180.00



1x2 teeth

No. 11070-08  
\$190.00



10x magnification

**Octagon Forceps**

The octagon shaped grip provides a particularly secure finger hold.



Tip width: 0.8 mm  
9.5 cm



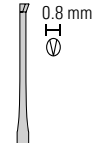
Straight  
Serrated

No. 11040-08  
\$148.50



Curved  
Serrated

No. 11041-08  
\$155.50



Straight  
1x2 teeth

No. 11042-08  
\$167.00



Curved  
1x2 teeth

No. 11043-08  
\$171.00

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Extra Fine Graefe Forceps







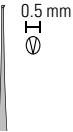








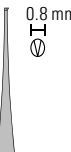


Tip width: 0.5 mm  
10 cm

Graefe Forceps



Tip width: See below  
10 cm

- |   |   |   |
|---|---|---|
|  |  |  |
| Serrated<br>No. 11150-10<br>\$67.00   | Serrated<br>No. 11151-10<br>\$72.00   | Serrated<br>No. 11152-10<br>\$73.00   |
|  |  |  |
| Smooth<br>No. 11158-10<br>\$91.50   | Smooth<br>No. 11159-10<br>\$95.00   | Smooth<br>No. 11160-10<br>\$93.00   |
|  |  |  |
| 1x2 teeth<br>No. 11153-10<br>\$73.00  | 1x2 teeth<br>No. 11154-10<br>\$79.50  | 1x2 teeth<br>No. 11155-10<br>\$80.50  |

- |   |   |   |   |
|---|---|---|---|
|  |  |  |  |
| Serrated<br>Tip width: 0.8 mm<br>No. 11050-10<br>\$66.00                            | Serrated<br>Tip width: 0.8 mm<br>No. 11051-10<br>\$69.00                            | Serrated<br>Tip width: 0.8 mm<br>No. 11052-10<br>\$70.00                              | Serrated<br>Tip width: 0.8 mm<br>No. 11049-10<br>\$74.00                              |
| <b>·TITANIUM·</b><br>Tip width: 1.2 mm<br>No. 11650-10<br>\$121.50                  | <b>·TITANIUM·</b><br>Tip width: 1.2 mm<br>No. 11651-10<br>\$125.50                  | <b>·TITANIUM·</b><br>Tip width: 1.2 mm<br>No. 11652-10<br>\$129.00                    |   |
|  |  |  |   |
| 1x2 teeth<br>Tip width: 0.8 mm<br>No. 11053-10<br>\$72.00                           | 1x2 teeth<br>Tip width: 0.8 mm<br>No. 11054-10<br>\$78.50                           | 1x2 teeth<br>Tip width: 0.8 mm<br>No. 11055-10<br>\$79.50                             |   |

For more information see page 183.

**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.



Slide lock  
Smooth  
Tip width: 1 mm  
11 cm

No. 11062-10  
\$138.00

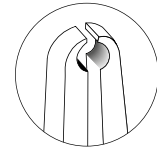


Tip thickness: 0.2 mm  
10 cm

No. 11071-10  
\$141.00

**Pierson 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  
0.1 x 0.4 mm  
13 cm

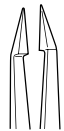
No. 18155-13  
\$149.00

**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.



Acetyl  
11.5 cm  
Pkg. of 10 forceps



Sharp straight  
0.40 x 0.25 mm

No. 11700-00  
\$23.50



Blunt straight  
1.5 x 0.40 mm

No. 11700-03  
\$23.50



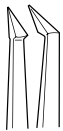
Sharp curved  
0.30 x 0.20 mm

No. 11700-01  
\$23.50



Blunt curved  
1.5 x 0.40 mm

No. 11700-04  
\$23.50

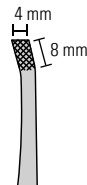


Sharp 45°  
0.30 x 0.20 mm

No. 11700-02  
\$23.00

**Cross Action Forceps**

These tissue transport forceps have a gentle action.



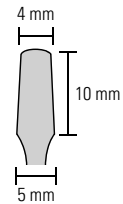
Cross serrated  
Tip width: 4 mm  
Tip depth: 8 mm  
10 cm

No. 11075-00  
\$74.00

**Cover Glass Forceps**



10.5 cm



Straight

No. 11074-02  
\$34.00

Angled

No. 11073-10  
\$47.50

**Ring Forceps**

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



ID: 1 mm	ID: 2.2 mm	ID: 4.8 mm
OD: 1.5 mm	OD: 3 mm	OD: 6 mm
8.5 cm	9 cm	9 cm
No. 11101-09	No. 11103-09	No. 11106-09
\$85.50	\$77.50	\$75.00

**Circle Forceps**

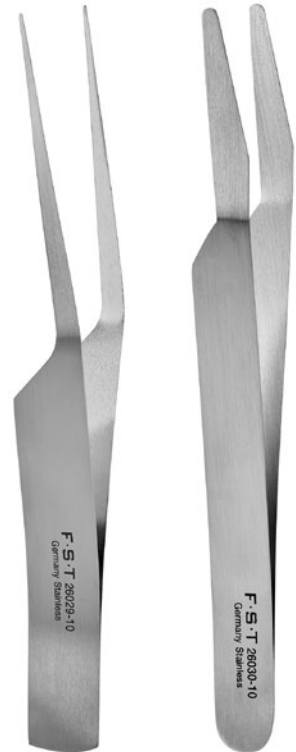
Cupped forceps for atraumatic gripping of organs and tissues.



Tip diameter: 0.7 mm
11.5 cm
No. 11072-11
\$41.00

**Live Insect Handling Forceps**

Very delicate.



Narrow	Wide
10 cm	10 cm
No. 26029-10	No. 26030-10
\$30.00	\$28.00

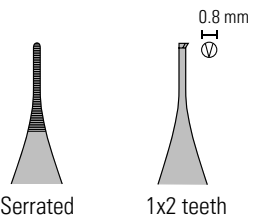
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**Micro-Adson**

Our most delicate version of the popular Adson forceps.



Tip width: 0.8 mm  
12 cm



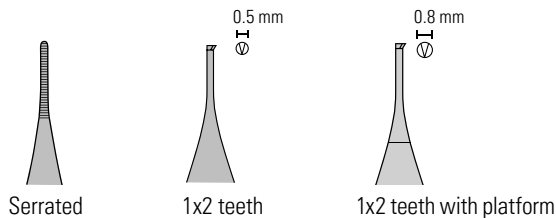
No. 11018-12 \$52.50  
No. 11019-12 \$56.50

**Micro-Adson with Fenestrated Handle**

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



12 cm



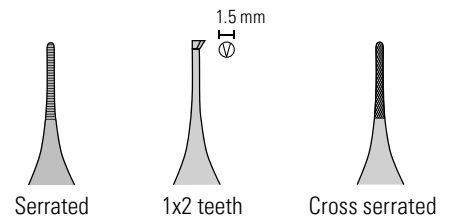
Tip width: 0.8 mm No. 11020-12 \$62.00  
Tip width: 0.5 mm No. 11032-12 \$102.50  
Tip width: 0.8 mm No. 11022-12 \$65.00

**Adson**

Wide, strong grip with narrow tips.



Tip width: 1.5 mm  
12 cm

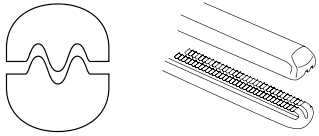


No. 11006-12 \$34.00 **MOST POPULAR**  
No. 11027-12 \$40.00 **MOST POPULAR**  
No. 11506-12 \$153.50

**TUNGSTEN CARBIDE**

For more information see page 183.

**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.

**Adson-Graefe**



**Adson-Brown**

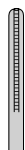


FORCEPS



DeBakey serrations  
Tip width: 1.5 mm  
12.5 cm

No. 11617-12  
\$155.50



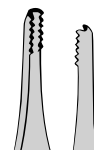
DeBakey serrations  
Tip width: 1.5 mm  
15 cm

No. 11616-15  
\$157.50



Fine sharp teeth  
Tip width: 4.5 mm  
12.5 cm

No. 11030-12  
\$119.50



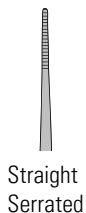
Shark teeth  
Tip width: 1.4 mm  
12 cm

No. 11627-12  
\$66.00

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**Semken**

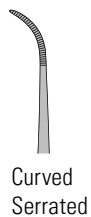
Slim pattern with long, narrow shanks and gentle spring action.



Tip width (mm)	Length (cm)	Item	Price
1.3	13	No. 11008-13	\$34.00
1.5	15	No. 11008-15	\$35.00

**·TITANIUM·**

1.5	15	No. 11608-15	\$173.50
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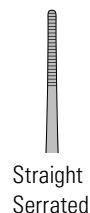


Tip width (mm)	Length (cm)	Item	Price
1.3	13	No. 11009-13	\$38.00
1.5	15	No. 11009-15	\$43.50



**Narrow Pattern**

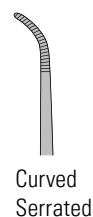
Lighter spring action than standard pattern for grasping more delicate tissue.



Tip width (mm)	Length (cm)	Item	Price
2	12	No. 11002-12	\$24.50
2.15	13	No. 11002-13	\$26.00
2.25	14.5	No. 11002-14	\$28.00
2.35	16	No. 11002-16	\$32.00
2.4	18	No. 11002-18	\$42.00
2.75	20	No. 11002-20	\$47.50
3.2	25	No. 11002-25	\$61.00

**·TITANIUM·**

2.25	14.5	No. 11602-14	\$109.00
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Tip width (mm)	Length (cm)	Item	Price
2	12	No. 11003-12	\$28.00
2.15	13	No. 11003-13	\$29.00
2.25	14.5	No. 11003-14	\$30.00
2.35	16	No. 11003-16	\$34.00
2.4	18	No. 11003-18	\$46.00
2.75	20	No. 11003-20	\$50.00

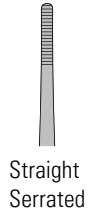


**·TITANIUM·**

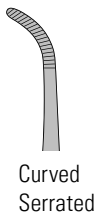
For more information  
see page 183.

**Standard Pattern**

Broad pattern with strong spring action.



Tip width (mm)	Length (cm)	Item	Price
2.5	12	No. 11000-12	\$20.50
2.8	13	No. 11000-13	\$22.50
3.25	14.5	No. 11000-14	\$23.50
3.3	16	No. 11000-16	\$27.00
3.7	18	No. 11000-18	\$34.00
3.75	20	No. 11000-20	\$39.00
3.9	25	No. 11000-25	\$49.50
4	30	No. 11000-30	\$57.50



Tip width (mm)	Length (cm)	Item	Price
2.5	12	No. 11001-12	\$24.50
2.8	13	No. 11001-13	\$26.00
3.25	14.5	No. 11001-14	\$27.00
3.3	16	No. 11001-16	\$32.00
3.7	18	No. 11001-18	\$39.00
3.75	20	No. 11001-20	\$43.50



**Mouse Handling Forceps**

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



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

**No. 11036-20**  
\$50.50



Replacement silicone tips

Pkg of 2 tips  
**No. 11036-90**  
\$20.50

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Slim 1x2 teeth

10 cm	14.5 cm
No. 11023-10	No. 11023-14
\$29.00	\$31.00
12 cm	15.5 cm
No. 11023-12	No. 11023-15
\$30.00	\$34.00



1x2 teeth

12 cm
No. 11021-12
\$22.50
14.5 cm
No. 11021-14
\$23.50
15.5 cm
No. 11021-15
\$26.00



2x3 teeth

14.5 cm
No. 11022-14
\$31.00
15.5 cm
No. 11022-15
\$37.00

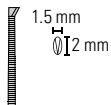


1x2 teeth

14 cm
No. 11029-14
\$33.00

Used with rongeur No. 16021-14 (page 36) in laminectomy to securely hold spinal column.

**Gillies**

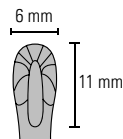


Serrated  
1x2 teeth  
15 cm

No. 11028-15  
\$61.00

**Russian**

Special cupped pattern  
for superior grip.

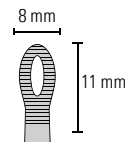


15 cm

No. 11026-15  
\$58.00

**Organ Holding Forceps**

With limit screw to prevent  
excessive applied pressure.

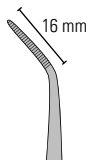


Serrated  
14.5 cm

No. 11031-15  
\$192.50

FORCEPS

London Forceps



Angled  
Serrated  
16 cm

No. 11080-02  
\$30.00

Titanium Forceps



Straight  
Serrated  
16 cm

No. 11602-16  
\$159.50

·TITANIUM·

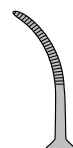
For more information  
see page 183.

Gerald Forceps



Straight  
Serrated  
18 cm

No. 11014-18  
\$57.50













Curved  
Serrated  
18 cm

No. 11015-18  
\$65.00

**Taylor Forceps**

Serrated and smooth versions available.

**Potts-Smith Forceps**

 Straight Serrated 17 cm  No. 11010-17 \$49.50		 Curved Serrated 17 cm  No. 11011-17 \$52.50	 Straight Serrated 18 cm No. 11012-18 \$37.00  21 cm No. 11012-21 \$44.50  25 cm No. 11012-25 \$56.50		 Curved Serrated 18 cm No. 11013-18 \$49.50  21 cm No. 11013-21 \$58.50
 Straight Smooth 17 cm  No. 11016-17 \$48.50	 Curved Smooth 17 cm  No. 11017-17 \$51.50	 Straight 1x2 teeth 18 cm  No. 11024-18 \$48.50	 Curved 1x2 teeth 18 cm  No. 11025-18 \$52.50		

FORCEPS

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**Ultra Fine Hemostat**



Tip width: 0.6 mm  
Smooth  
12 cm



Straight

No. 13020-12  
\$125.00



Curved

No. 13021-12  
\$127.00

**Fine Hemostat**



Tip width: 1 mm  
Smooth  
12 cm



Straight

No. 13006-12  
\$119.00



Curved

No. 13007-12  
\$121.00

Micro-Mosquito

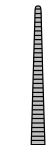
Halsted-Mosquito



Tip width: 1.3 mm  
Serrated  
12 cm

Tip width: 1 mm  
Serrated  
12.5 cm

Tip width: 1 mm  
Serrated  
Left handed  
12.5 cm



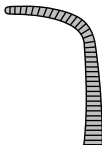
Straight

No. 13010-12  
\$105.00



Curved

No. 13011-12  
\$108.00



Angled 90°

No. 13012-12  
\$117.00



Straight

No. 13008-12  
\$50.00



Curved

No. 13009-12  
\$53.00



Straight

**LEFT HANDED**  
No. 13108-12  
\$117.50



Curved

**LEFT HANDED**  
No. 13109-12  
\$111.00

**MOST POPULAR**

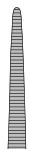
HEMOSTATS

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**Crile**

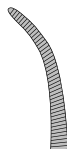


Tip width: 1.5 mm  
Serrated  
14 cm



Straight

No. 13004-14  
\$50.00



Curved

No. 13005-14  
\$55.00

**Kelly**

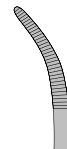


Tip width: 1.5 mm  
Serrated  
14 cm



Straight

No. 13018-14  
\$55.00



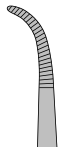
Curved

No. 13019-14  
\$58.00

Baby-Mixer



Tip width: 1.3 mm  
Serrated  
14 cm



Curved

No. 13013-14  
\$87.50

Providence-Hospital



Tip width: 1.5 mm  
Serrated  
14 cm



Straight

No. 13014-14  
\$59.00



Curved

No. 13015-14  
\$62.00

HEMOSTATS

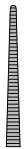
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Hartman



Tip width: 1 mm  
Serrated  
10 cm



Straight

No. 13002-10  
\$55.00



Curved

No. 13003-10  
\$57.00



Backhaus Towel Forceps



9 cm

No. 11095-09  
\$50.00



13 cm

No. 11095-13  
\$55.00

**Allis Forceps**

Tissue and organ holding forceps.



HEMOSTATS

Ⓜ 4 mm

5x6 teeth  
Tip width: 4 mm  
15 cm

Allis  
No. 11091-15  
\$83.00

Ⓜ 3 mm

4x5 teeth  
Tip width: 3 mm  
12 cm

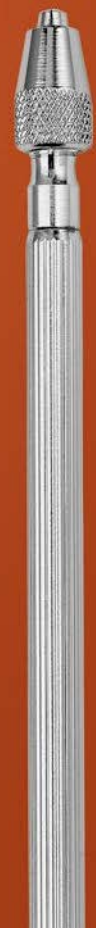
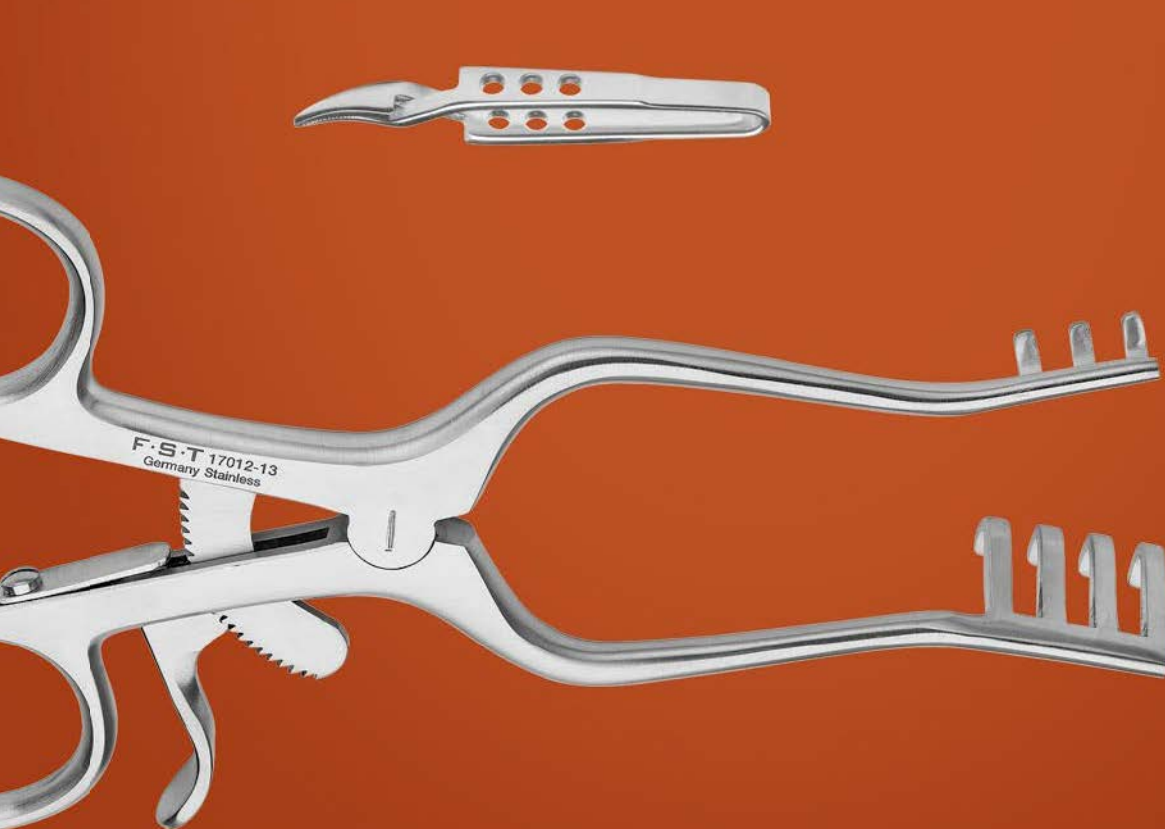
Allis-Baby  
No. 11092-12  
\$79.00

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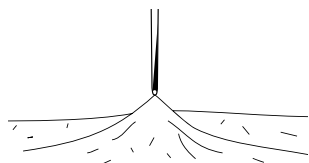
## Probes, Needle Holders, Wound Closure, Retractors & Clamps

Probes & Hooks	Pages	99 – 103
Spatulae	Pages	102 – 105
Hippocampal Tools	Page	106
Spoons	Page	107
Pins & Holders	Pages	108 – 109
Wound Closure	Pages	110 – 121
Retractors	Pages	122 – 129
Vascular Instruments	Pages	130 – 139



### Double Pronged Pick

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



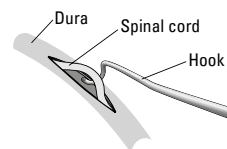
The tip consists of two very sharp, nearly horizontally opposed points. By applying gentle downward pressure and twisting slightly in a clockwise fashion, the points will embed themselves horizontally into fine membranes or skin, etc., so that it may be lifted upward. This instrument also has been used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



11 cm

No. 18067-11  
\$147.00

### 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.



250°

Tip diameter: 3 mm  
12 cm

No. 10162-12  
\$103.00

**Bonn Micro Probes**



Length: 13.5 cm



Actual size

Straight  
Tip diameter: 0.025 mm

No. 10030-13  
\$79.50



200%

Angled 45°  
Tip diameter: 0.025 mm

No. 10032-13  
\$81.50



Actual size

Curved  
Tip diameter: 0.025 mm

No. 10031-13  
\$84.50



Actual size

Large curve  
Tip diameter: 0.038 mm

No. 10033-13  
\$82.50

**Micro Points**



Length: 15.5 cm



200%

Angled 90° short  
Tip diameter: 0.05 mm

No. 10063-15  
\$102.00



200%

Angled 90°  
Tip diameter: 0.02 mm

No. 10065-15  
\$97.00

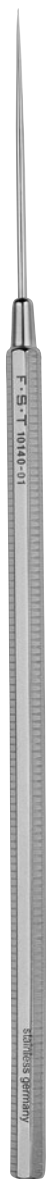


200%

Angled 45°  
Tip diameter: 0.038 mm

No. 10066-15  
\$96.00

Probes and Explorers



Length: 15.5 cm



Actual size

Straight  
Tip diameter: 0.25 mm

No. 10140-01 **MOST POPULAR**  
\$12.50



Actual size

Short angle  
Tip diameter: 0.12 mm

No. 10140-04  
\$16.50



Actual size

Angled  
Tip diameter: 0.15 mm

No. 10140-02  
\$14.50



Actual size

Long angled  
Tip diameter: 0.15 mm

No. 10140-03  
\$15.50

Micro Hooks



175%

Short round hook  
Tip diameter: 0.05 mm  
Length: 13 cm

No. 10064-14  
\$102.00



175%

Sharp hook  
Tip diameter: 0.075 mm  
Length: 12 cm

No. 10061-12  
\$81.50



175%

Blunt hook  
Tip diameter: 0.30 mm  
Length: 12 cm

No. 10062-12  
\$79.50

PROBES

**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**



**·TITANIUM·**  
For more information see page 183.

**Y-Hook**



**·TITANIUM·**  
For more information see page 183.

**Micro Spatula**

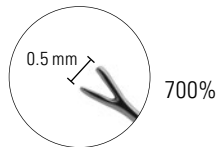


**·TITANIUM·**  
For more information see page 183.



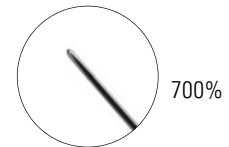
Angled 45°  
Tip diameter: 0.4 mm  
Titanium  
12.5 cm

No. 10165-11  
\$191.00



Angled 45°  
Tip width: 0.5 mm  
Titanium  
12.5 cm

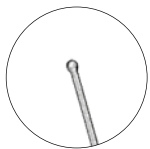
No. 10166-11  
\$167.00



Angled 30°  
Tip width: 0.6 mm  
Tip thickness: 0.25 mm  
Titanium  
12.5 cm

No. 10167-11  
\$188.00

Vessel Dilating Probe



200%

Tip diameter: 0.6 mm  
12.5 cm

No. 10160-13  
\$176.00

Gross Anatomy Probe



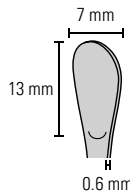
MOST POPULAR



Angled 45°  
Tip diameter: 1.2 mm  
15 cm

No. 10088-15  
\$18.00

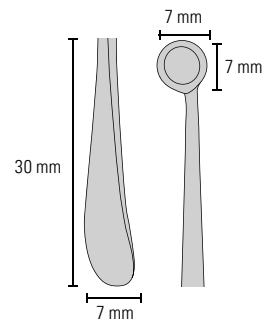
Combination Probe and Spatula



14 cm

No. 10090-13  
\$139.00

Combination Spoon and Spatula



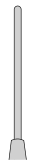
17.5 cm

No. 10090-17  
\$175.00

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**Micro Spatula**



Tip width: 1 mm  
Tip thickness: 0.25 mm  
11 cm

No. 10089-11  
\$105.50

**Mirror Finish  
Micro Spatula**

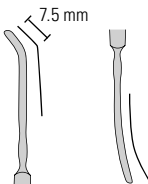
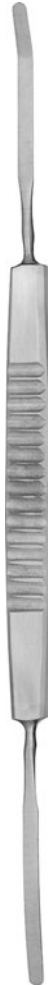
Mirror finished to provide a non-stick spatula.



Tip width: 0.8 mm  
Tip thickness: 0.25 mm  
12 cm

No. 10087-12  
\$179.00

**Double-Ended  
Micro Spatula**



Tip width: 2 mm  
Tip thickness: 0.3 mm  
13 cm

No. 10091-12  
\$164.00

**MOST  
POPULAR**

**Iris Spatulae**



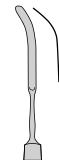
Tip width: 3 mm  
Tip thickness: 0.4 mm  
13 cm

No. 10094-13  
\$75.00



Tip width: 1.7 mm  
Tip thickness: 0.3 mm  
13 cm

No. 10093-13  
\$76.00



Tip width: 1.8 mm  
Tip thickness: 0.3 mm  
12 cm

No. 10092-12  
\$80.00

Micro Spatula Kit



150% of actual size

SPATULAE

Kit with 4 pieces

No. 10098-06

\$35.00

**NEW  
ITEM**

Black



Straight  
Tip width: 0.2 mm  
6 cm

Blue



Straight  
Tip width: 0.3 mm  
6 cm

Green



Straight  
Tip width: 0.5 mm  
6 cm

Red



Straight  
Tip width: 0.7 mm  
6 cm

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**Mini Hippocampal Dissecting Tool**

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

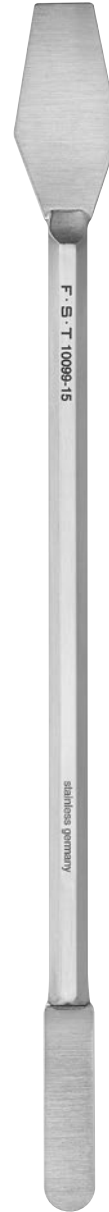


14.5 cm

No. 10099-12  
\$205.00

**Hippocampal Dissecting Tool**

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



16 cm

No. 10099-15  
\$73.50

PIN HOLDERS

**Spoon**



Diameter: 8 mm  
Depth: 2 mm  
12.5 cm

Moria 1121B  
No. 10321-08  
\$240.00

**Mini Perforated Spoon**

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



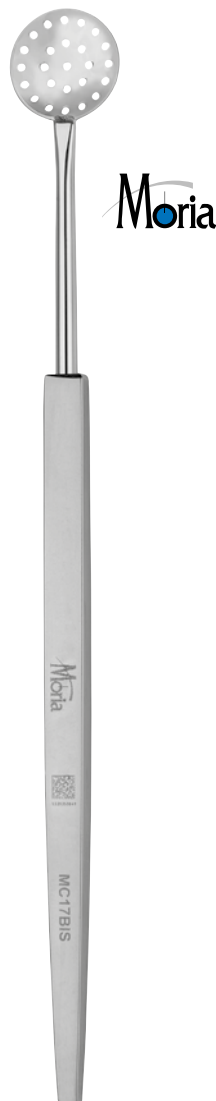
Perforations are  
0.8 mm in diameter.

Diameter: 8 mm  
Depth: 1 mm  
10 cm

Moria MC 17C  
No. 10370-19  
\$213.00

**Perforated Spoon**

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



Perforations are  
0.9 mm in diameter.

**MOST POPULAR**

Diameter: 15 mm  
Depth: 3 mm  
14.5 cm

Moria MC 17 BIS  
No. 10370-18  
\$257.50

Diameter: 20 mm  
Depth: 5 mm  
14.5 cm

Moria MC 17  
No. 10370-17  
\$205.00

**Mirror Finish Cutting Spoon**

Non stick cutting spoon.



Diameter: 4.5 mm  
Depth: 0.15 mm  
13 cm

No. 10360-13  
\$126.50

PINS

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**Pin Holder**

Light weight.



Nickel-plated chuck  
Aluminum handle  
Jaw opening: 0–1 mm  
17 cm

No. 26018-17  
\$31.00

**MOST  
POPULAR**

**Pin Holder**



Moria

Nickel-plated  
Jaw opening: 0–1 mm  
12 cm

No. 26016-12  
\$40.00

**MOST  
POPULAR**

**Self Holding Pin and Bone Screw Forceps**

Designed with a serrated tip and grooved cup for a stable and secure grip, these forceps hold pins and screws allowing precise placement at your target area. They are compatible with all Fine Science Tools insect pins, minutien pins and bone screws.



200%

Polished stainless steel  
14 cm

No. 26100-00  
\$127.50

SPOONS

**Insert Pins**

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

Stainless steel  
5 cm  
\$6.00



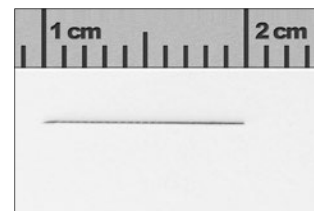
No. 26007-01    -02    -03    -04    -05

**Black Anodized Minutien Pins**

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

Tip diameter: 0.0175 mm  
Rod diameter: 0.15 mm  
10 mm

Box of 500 pins  
No. 26002-15 **MOST POPULAR**  
\$38.00



**Stainless Steel Minutien Pins**

The thinnest and finest pins available.

Tip diameter: 0.0125 mm  
Rod diameter: 0.1 mm  
10 mm

Box of 500 pins  
No. 26002-10 **MOST POPULAR**  
\$34.00

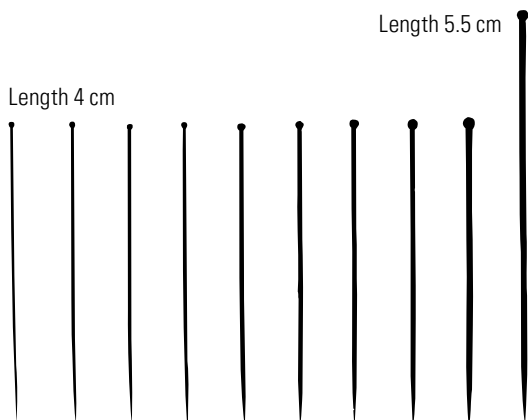
Tip diameter: 0.02 mm  
Rod diameter: 0.2 mm  
10 mm

Box of 500 pins  
No. 26002-20 **MOST POPULAR**  
\$33.00

**Black Anodized Insect Pins**

Nylon heads  
Tip diameter: 0.03 mm

Pkg. of 100 pins  
\$15.00



Size	000	00	0	1	2	3	4	5	6	7
Rod diameter (mm)	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70
No. 26000	-25	-30	-35	-40	-45	-50	-55	-60	-65	-70

**Stainless Steel Insect Pins**

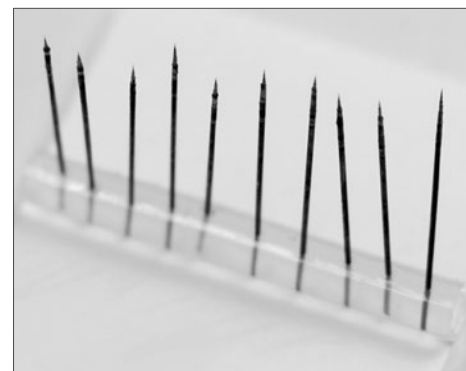
Nylon heads  
Tip diameter: 0.03 mm

Pkg. of 100 pins  
\$20.00

Size	000	00	0	1	2	3	4	5	6	7
Rod diameter (mm)	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70
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 106.



Tip diameter: 1 µm (0.001 mm)  
12 mm

Box of 10 needles

Rod diameter (mm)	Item	Price
0.125	No. 10130-05	\$150.50
0.25	No. 10130-10	\$150.50
0.5	No. 10130-20	\$150.50

FEATURED PRODUCTS

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**Castroviejo**

Micro pattern, with slightly blunted tips.



Straight  
9 cm

With lock  
No. 12060-01  
\$340.00

Without lock  
No. 12060-02  
\$315.00



Curved  
9 cm

With lock  
No. 12061-01  
\$345.00

Without lock  
No. 12061-02  
\$317.00

**Round Handled Needle Holder with Suture Cutter**

Round handles allow easy fingertip adjustments.



Curved  
Cutting edge: 3.5 mm  
14 cm

Without lock  
No. 12075-14  
\$708.50

**Cautionary note:**

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 116).

**Round Handled Needle Holder**

Round handles allow easy fingertip adjustments.



Straight  
12.5 cm

With lock  
No. 12075-12  
\$415.00

Without lock  
No. 12076-12  
\$368.50

**Mathieu**

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



14 cm

With lock  
No. 12010-14  
\$157.00



With tungsten carbide jaws  
14 cm

With lock  
No. 12510-14  
\$257.00

**TUNGSTEN  
CARBIDE**

For more information  
see page 183.

**Castroviejo with Tungsten Carbide Jaws**



**TUNGSTEN  
CARBIDE**

For more information  
see page 183.



With tungsten carbide jaws  
14 cm

With lock  
No. 12565-14  
\$411.00



Halsey



Smooth  
13 cm



With tungsten  
carbide jaws  
13 cm

**TUNGSTEN  
CARBIDE**

For more information  
see page 183.

**MOST  
POPULAR**

No. 12001-13  
\$74.00

No. 12501-13  
\$176.00

Halsey with Tungsten Carbide Jaws



**TUNGSTEN  
CARBIDE**

For more information  
see page 183.



With tungsten  
carbide jaws  
12.5 cm

No. 12500-12  
\$201.00

NEEDLE HOLDERS

Olsen-Hegar with Suture Cutter



10 mm cutting edge  
1.5 mm jaw surface  
12 cm

15 mm cutting edge  
2 mm jaw surface  
14 cm

**MOST POPULAR**

No. 12002-12  
\$183.00

No. 12002-14  
\$186.00



No. 12102-12  
\$193.00

Olsen-Hegar with Suture Cutter and Tungsten Carbide Jaws



**TUNGSTEN CARBIDE**

For more information see page 183.



With tungsten carbide jaws  
10 mm cutting edge  
1.5 mm jaw surface  
12 cm

With tungsten carbide jaws  
15 mm cutting edge  
2 mm jaw surface  
14 cm

No. 12502-12  
\$240.00

No. 12502-14  
\$245.00

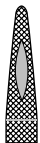


No. 12512-12  
\$268.00

NEEDLE HOLDERS

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Crile-Wood



15 cm

No. 12003-15  
\$80.00



With tungsten carbide jaws  
15 cm

No. 12503-15  
\$174.00



No. 12504-15  
\$233.00

**TUNGSTEN  
CARBIDE**

For more information  
see page 183.

Mayo-Hegar



16 cm  
No. 12004-16  
\$82.00

18 cm  
No. 12004-18  
\$89.00

**Slim Elongated Needle Holder  
with Tungsten Carbide Jaws**

**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.



**TUNGSTEN  
CARBIDE**

For more information  
see page 183.

**TUNGSTEN  
CARBIDE**

For more information  
see page 183.

Side View



With tungsten  
carbide jaws  
15 cm

No. 12005-15  
\$251.50



With tungsten  
carbide dust tips  
15 cm

No. 12505-15  
\$285.50

NEEDLE HOLDERS

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### Microsurgical Needles with Suture Thread Attached

The combination of proprietary needle design technology and state-of-the-art manufacturing techniques has enabled S&T to provide a microsurgical needle that is unmatched in the industry. S&T 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 non-absorbable 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

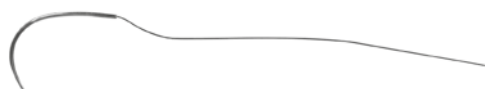


400% of actual size

No. 12051-11



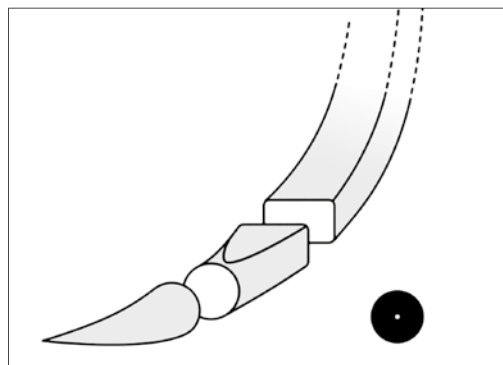
No. 12051-10



No. 12051-09



No. 12051-08



Standard taper point needle



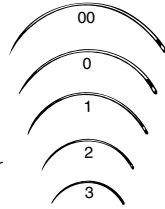
Suture size	Suture length (cm)	Needle diameter (micron)	Needle diameter (mm)	Needle chord length (mm)	Circle	Arch (mm)	Item	Price
11/0	10	50	0.05	3	3/8	3.8	No. 12051-11	\$654.00
10/0	10	70	0.07	3	3/8	3.8	No. 12051-10	\$458.50
9/0	15	100	0.1	4	3/8	5.1	No. 12051-09	\$319.50
8/0	15	140	0.14	5	3/8	6.4	No. 12051-08	\$268.00

**Suture Needles**

Polished stainless steel  
 3/8 curved  
 Round with standard eye  
 Diameter 0.35 mm  
 Suitable for sutures up to 0.32 mm diameter

**Non-sterile**

Pkg. of 12 needles



Size	Item	Price
00	No. 12050-20	\$27.00
0	No. 12050-10	\$27.00
1	No. 12050-01	\$27.00
2	No. 12050-02	\$27.00
3	No. 12050-03	\$27.00

**Silk Suture**

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

Braided silk

**Non-sterile**



Size	Diameter (mm)	Spool length (m)	Item	Price
7/0	0.05	91	No. 18020-70	\$100.00
6/0	0.08	23	No. 18020-60	\$37.00
5/0	0.12	23	No. 18020-50	\$38.00
4/0	0.17	23	No. 18020-40	\$39.00
3/0	0.22	23	No. 18020-30	\$40.00
2/0	0.32	23	No. 18020-20	\$42.00
0	0.37	23	No. 18020-00	\$51.00
1	0.45	23	No. 18020-01	\$53.00
2	0.55	23	No. 18020-02	\$74.00
3	0.65	23	No. 18020-03	\$80.00

For Suture Tying Forceps, see pages 76, 77 and 78.

**Nylon Monofilament Suture**

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

Nylon monofilament

**Non-sterile**



Size	Diameter (mm)	Spool length (m)	Item	Price
8/0	0.04	91	No. 18030-80	\$132.00
7/0	0.05	91	No. 18030-70	\$109.00
6/0	0.07	91	No. 18030-60	\$125.00
5/0	0.10	91	No. 18030-50	\$127.00
4/0	0.15	91	No. 18030-40	\$128.00
3/0	0.20	91	No. 18030-30	\$130.00

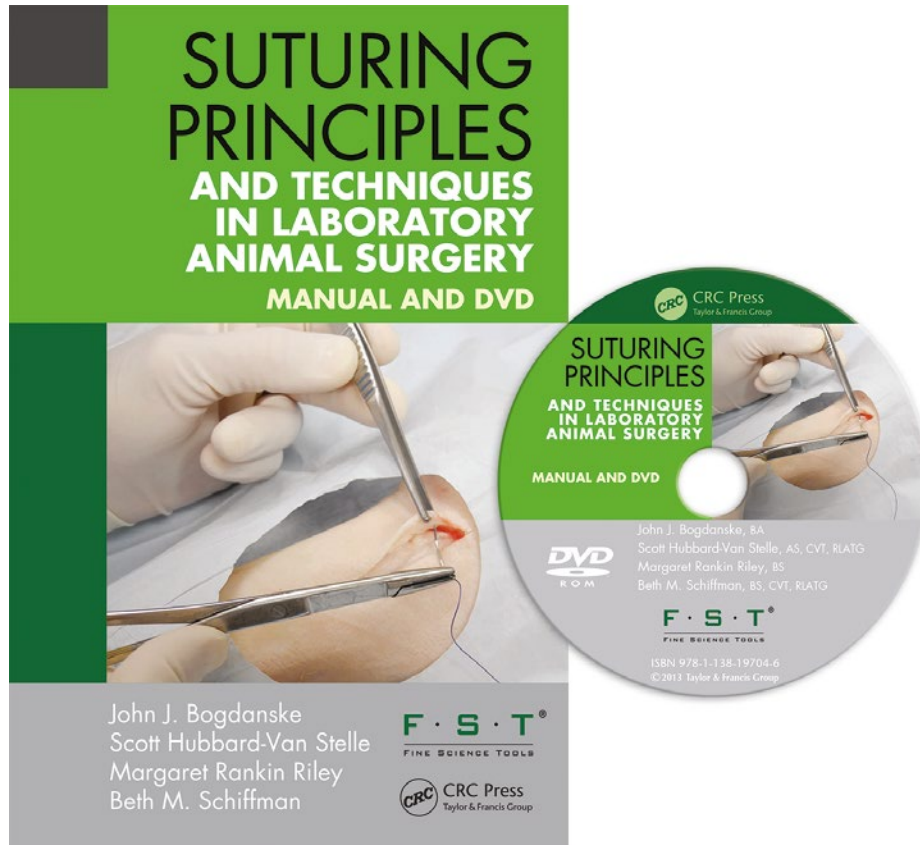
SUTURES

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**Suturing Principles and Techniques in Laboratory Animals**

Introduces the basic principles, materials and surgical instruments required for suturing and wound closure used on animals. The manual 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 DVD provides descriptive narrative and step-by-step video demonstrations for each of the suturing techniques.

**Manual and DVD**



Includes: Fine Science Tools Item Number Reference Page for all surgical instruments used in the manual.

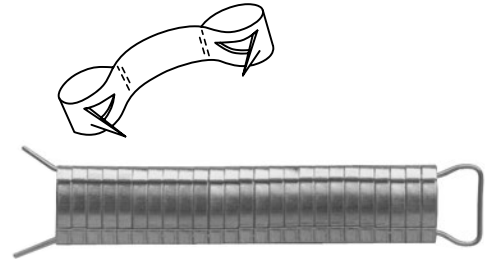
No. 23005-10  
\$101.00

SUTURE BOOK/DVD

**Michel Suture Clips**

Anti-magnetic, acid-resistant stainless steel  
Pkg. of 1,000 clips

Size (mm)	Item	Price
7.5 x 1.75	No. 12040-01	\$97.00
11 x 2	No. 12040-02	\$95.00
12 x 2.5	No. 12040-03	\$92.50



**Applying Forceps**



For all Michel suture clips  
12.5 cm

No. 12018-12  
\$51.50

**Applying and Removing Instruments**



For clip sizes 12040-02 and larger  
Curved  
13 cm

No. 12028-12  
\$102.00



For clip size 12040-01 only  
Angled  
13 cm

No. 12029-12  
\$154.50

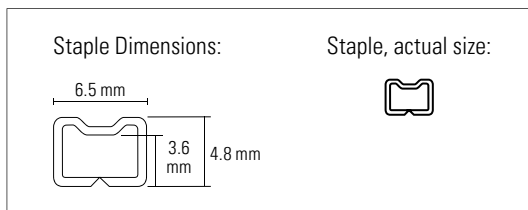
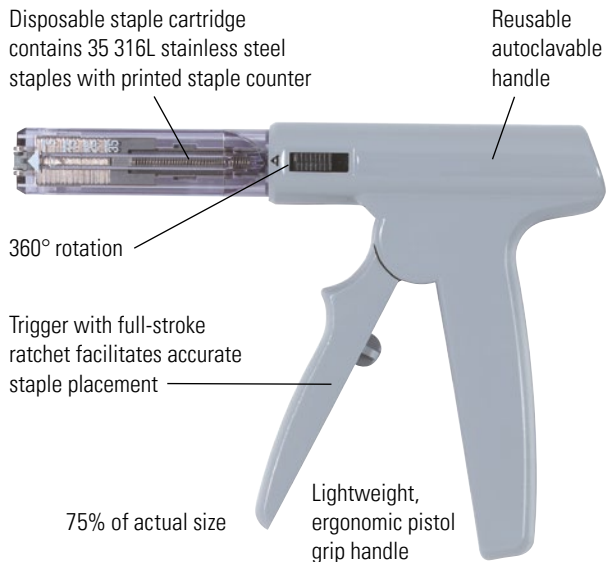
SUTURE CLIPS

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### 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.**



Surgical staple kit

- 1 Handle
- 1 Remover
- 12 Disposable staple cartridges

No. 12030-20  
\$242.00

Single disposable cartridge  
35 staples per cartridge  
No. 12030-22  
\$21.00

12 disposable cartridges  
35 staples per cartridge  
No. 12030-23  
\$226.50

Handle  
No. 12030-01  
\$28.00

### Surgical Staple Remover

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



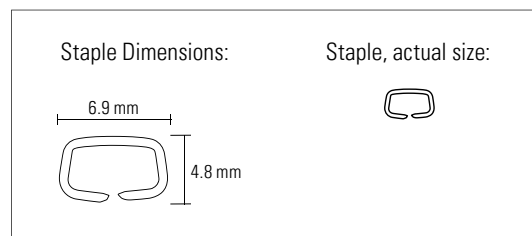
10 cm  
No. 12030-04  
\$10.50

SKIN STAPLERS

### Manipler® Skin Stapler

Quality, slim, lightweight design with consistent actuation and staple count indicator. **Disposable, sterile, and not autoclavable.**

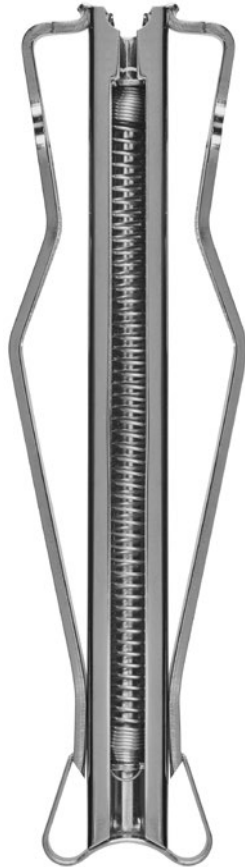
15 cm  
35 staples per cartridge  
No. 12035-00  
\$23.50



**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 and not autoclavable. Components sold separately or as a kit.**

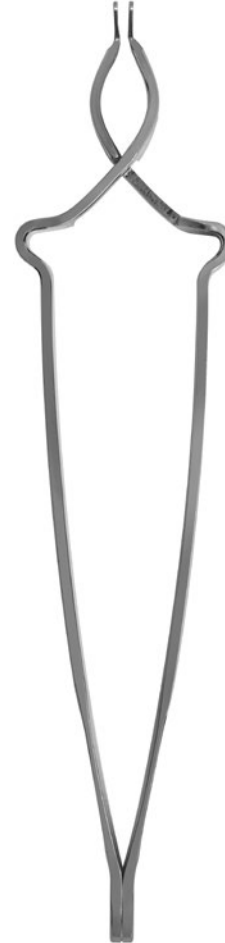
MOST POPULAR



Applier



Clips



Remover

AUTOCLIP SYSTEM

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

No. 12020-00  
\$387.50

AutoClip® applier  
11.5 cm

No. 12020-09  
\$256.00

AutoClip® 9 mm clips  
Pkg. of 100 clips

No. 12022-09  
\$33.50

AutoClip® remover  
12.5 cm

No. 12023-00  
\$141.00

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**Guthrie**

Extra delicate pattern.

2.5 mm



F · S · T  
17021-13  
Germany Stainless

2 Pronged  
Blunt  
13 cm

No. 17021-13  
\$84.50

6 mm



F · S · T  
17023-13

2 Pronged  
Blunt  
13.5 cm

No. 17023-13  
\$79.50

**Blair**

6 mm



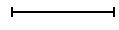
F · S · T  
17022-13

4 Pronged  
Blunt  
13.5 cm

No. 17022-13  
\$108.00

**Fomon**

13 mm



F · S · T  
17020-17

2 Pronged  
2 mm Ball at each tip  
17 cm

No. 17020-17  
\$133.00

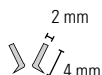
**Slide Retractor with Blades**



Maximum spread: 1 cm  
Atraumatic blades  
2 cm

No. 17004-03  
\$167.00

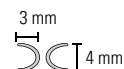
**Mini-Goldstein**



Maximum spread: 0.5 cm  
3x3 Sharp teeth  
2 cm

No. 17002-02  
\$191.50

**Mini-Colibri**



Maximum spread: 1 cm  
2 cm

No. 17000-01  
\$42.00

RETRACTORS

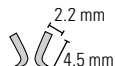
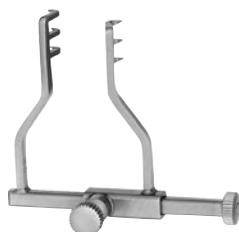
**Slide Retractor with Teeth**



Maximum spread: 1 cm  
2x2 Blunt teeth  
2 cm

No. 17005-03  
\$168.00

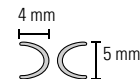
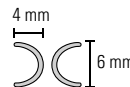
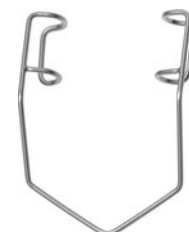
**Goldstein**



Maximum spread: 1.8 cm  
3x3 Sharp teeth  
3 cm

No. 17003-03  
\$120.00

**Colibri**



Maximum spread: 1.5 cm

Maximum spread: 1.2 cm

3 cm  
No. 17000-03  
\$27.50



3 cm  
No. 17000-02  
\$28.50

4 cm  
No. 17000-04  
\$26.50

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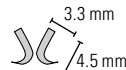
**Fine Adjustable  
Wire Retractor**



Maximum spread: 3.5 cm  
Thin, curved blades  
5 cm

No. 17004-05  
\$228.50

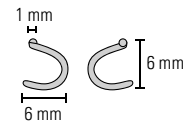
**Agricola**



Maximum spread: 3.5 cm  
3x3 Sharp teeth  
4 cm

No. 17005-04  
\$143.00

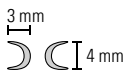
**Speculum**



Maximum spread: 3.5 cm  
Thin, curved blades and grooved finger grips  
4.5 cm

Moria 7699  
No. 17370-53  
\$96.00

**Alm Retractor  
with Wire Teeth**



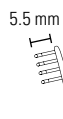
Maximum spread: 4 cm  
Arms gently curved down  
7 cm

No. 17010-07  
\$188.00

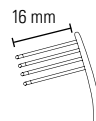
**Alm Retractor  
with Blunt Teeth**



Maximum spread: 4 cm  
Arms gently curved down  
7 cm

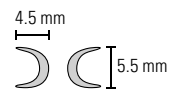


Blunt teeth  
No. 17008-07  
\$119.00



Long blunt teeth  
No. 17009-07  
\$176.00

**Alm Retractor  
with Blades**



Maximum spread: 4.5 cm  
Arms gently curved down  
Thin, curved blades  
7.5 cm

No. 17009-08  
\$175.00

RETRACTORS

PRICES VALID OCT 1, 2020 TO SEPT 30, 2021 · PRICES IN CANADIAN CURRENCY · SEE INSIDE BACK COVER FOR ORDERING INFORMATION

Spring-Loaded Retractor

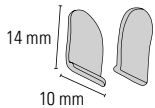


Curved atraumatic blades

Bowman

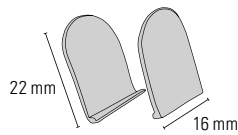


RETRACTORS



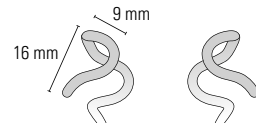
Maximum spread: 3 cm  
Blade dimensions: 14 x 10 mm  
5.5 cm

No. 17006-05  
\$57.50



Maximum spread: 4 cm  
Blade dimensions: 22 x 16 mm  
8 cm

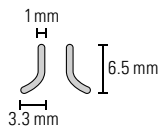
No. 17007-08  
\$58.50



Maximum spread: 2.5 cm  
8 cm

No. 17001-07  
\$25.00

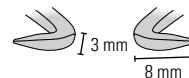
Heiss



Maximum spread: 2.3 cm  
 4x4 Blunt teeth  
 10 cm

No. 17011-10  
 \$136.00

Gelpi



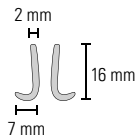
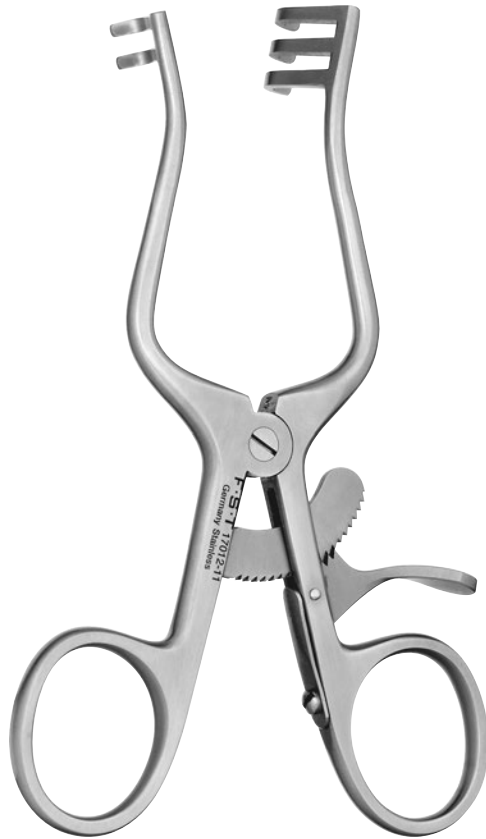
Maximum spread: 3 cm  
 Angled down  
 1x1 Sharp teeth  
 10 cm

No. 17017-10  
 \$240.00

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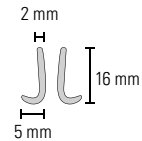
Weitlaner-Locktite



Maximum spread: 4.5 cm  
 2x3 Blunt teeth  
 11 cm  
**No. 17012-11**  
 \$215.00

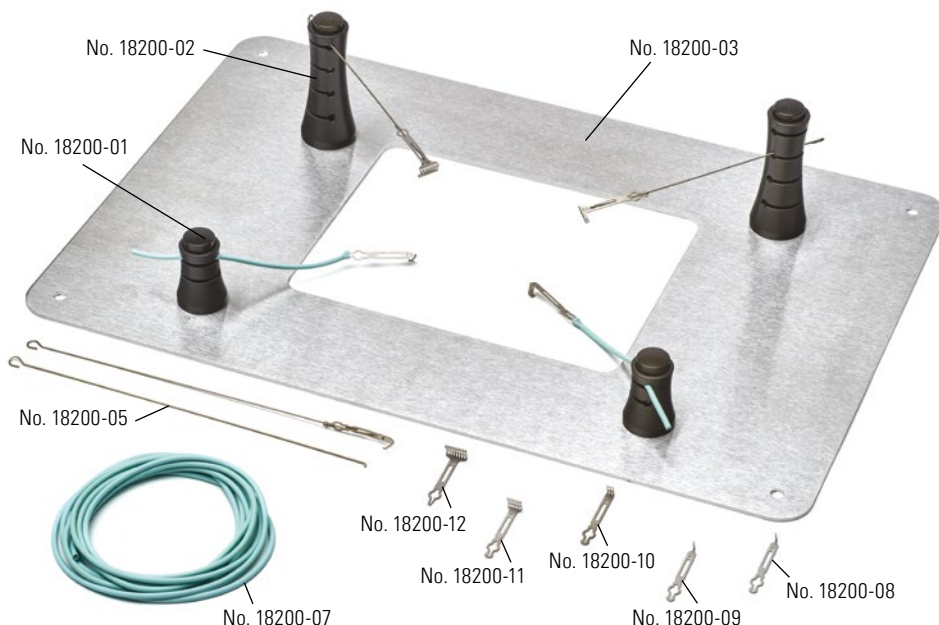
Maximum spread: 6.5 cm  
 3x4 Blunt teeth  
 13 cm  
**No. 17012-13**  
 \$232.00

Wullstein



Maximum spread: 4.5 cm  
 Angled down  
 3x3 Blunt teeth  
 11 cm

**No. 17018-11**  
 \$306.00



## 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**  
\$393.50

### 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**  
\$484.50

### Individual parts:

Short fixator, 2.5 cm high  
Each  
**No. 18200-01**  
\$80.50

Tall fixator, 5 cm high  
Each  
**No. 18200-02**  
\$88.50

Small base plate, (20 x 30 cm)  
Each  
**No. 18200-03**  
\$85.00

Large base plate, (25 x 35 cm)  
Each  
**No. 18200-04**  
\$93.50

Wire handles, 10 cm long  
Pkg. of 10  
**No. 18200-05**  
\$32.00

Wire handles, 14 cm long  
Pkg. of 10  
**No. 18200-06**  
\$35.00

Elastomer, 2 m roll  
**No. 18200-07**  
\$30.00

Sharp retractors  
Pkg. of 10  
**No. 18200-08**  
\$41.00

Blunt retractors, 1 mm wide  
Pkg. of 10  
**No. 18200-09**  
\$41.00

Blunt retractors, 2.5 mm wide  
Pkg. of 10  
**No. 18200-10**  
\$42.00









Blunt retractors, 5 mm wide  
Pkg. of 10  
**No. 18200-11**  
\$43.50

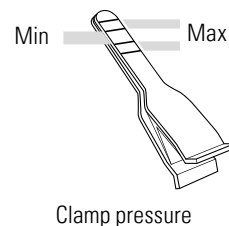
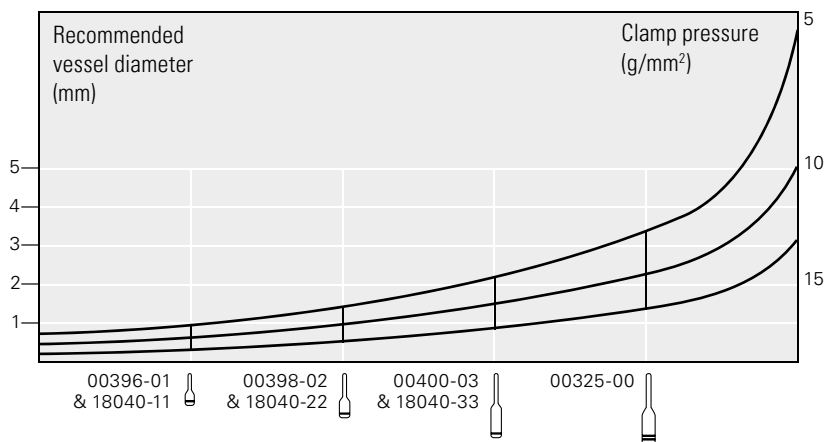
Blunt retractors, 7.5 mm wide  
Pkg. of 10  
**No. 18200-12**  
\$44.50

## 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/mm<sup>2</sup> when used on the largest vessel in its range, and 15g/mm<sup>2</sup> when used on the smallest vessel. Even at the higher range, S&T's micro clamps have the gentlest working pressure of any small vessel clamp available.

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



See page 131 for Micro Clamp and Double Clamp Appliers.

MICRO CLAMPS

### Micro Clamps S&T®



S&T B-1  
No. 00396-01  
\$111.50



S&T B-2  
No. 00398-02  
\$103.00



S&T B-3  
No. 00400-03  
\$101.00



S&T HD-S  
No. 00325-00  
\$152.00

### 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  
\$398.00



No. 18040-22  
\$388.00



No. 18040-33  
\$372.00

**Micro Clamp Applying Forceps**



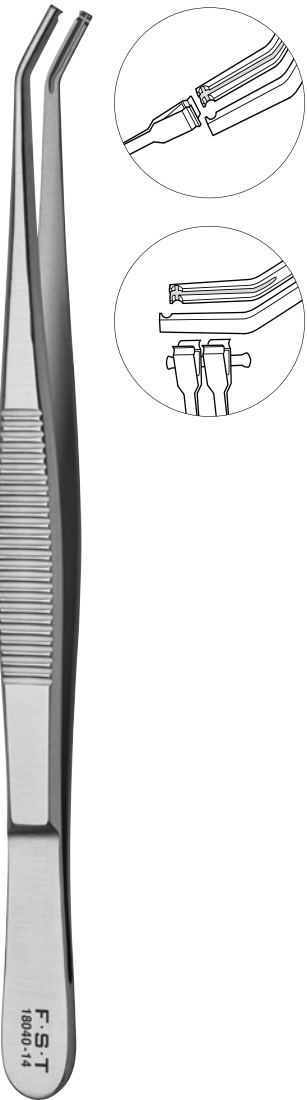
**S&T®**

Only compatible with  
S&T Micro Clamps  
14 cm

With lock  
No. 00071-14  
\$236.50

Without lock  
No. 00072-14  
\$154.00

**Micro Clamp Applying Forceps**



Compatible with S&T  
Micro Clamps and  
Double Micro Clamps  
14.5 cm

No. 18040-14  
\$184.50

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**Micro Clip Applicator with Lock**



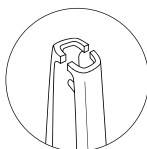
**MOST POPULAR**

For use with our 18055 series micro serrefines 14 cm

No. 18056-14  
\$556.00

**Forceps Style Clip Applicator**

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



For use with our 18055 series micro serrefines 14 cm

No. 18057-14  
\$86.50

**Stainless Steel Micro Serrefines**

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

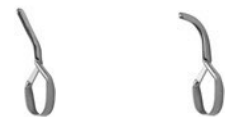
Delicate atraumatic serrations  
Spring width: 2 mm

\$76.00 **MOST POPULAR**



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

\$91.50



	No. 18055-05	-06
Jaw length (mm)	6	4
Jaw width (mm)	1	0.75
Total length (mm)	17	16
Jaw pressure (g)	100	125

**Titanium Micro Serrefines**

**TITANIUM**

Lightweight with strong clamping pressure.

For more information see page 183.

Delicate atraumatic serrations  
Spring width: 2 mm

\$187.00



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

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

**Moria Vessel Clamp**

Finely serrated (atraumatic)  
 Light pressure  
 For vessels up to 2 mm in diameter  
 Calibrated to 15g/mm<sup>2</sup>  
 1.8 mm wide, 3 cm long  
 Straight  
 33 mm



Moria 201/A  
 No. 18320-11  
 \$46.00



**Moria Bulldog Type Clamps**

Non-serrated  
 Strong pressure  
 2 mm wide  
 53 mm



Straight  
 Moria MC43  
 No. 18374-43  
 \$126.00



Curved  
 Moria MC44  
 No. 18374-44  
 \$128.00



**Dietrich Bulldog Clamps**

Serrated  
 Good access to deep seated vessels  
 Closing pressure: 50 g (light)  
 Weight: 3 g



Straight  
 52.5 mm  
 No. 18038-45  
 \$213.00



Angled  
 50 mm  
 No. 18039-45  
 \$215.00

**Bulldog Type Serrefines**

Serrated

Straight  
 Medium pressure  
 28 mm  
 No. 18050-28  
 \$72.50



Curved  
 Medium pressure  
 28 mm  
 No. 18051-28  
 \$75.00



Straight  
 Strong pressure  
 35 mm  
 No. 18050-35  
 \$53.50



Straight  
 Strong pressure  
 50 mm  
 No. 18050-50  
 \$51.50



Curved  
 Strong pressure  
 35 mm  
 No. 18051-35  
 \$55.50

Curved  
 Strong pressure  
 50 mm  
 No. 18051-50  
 \$57.00

**Schwartz Micro Serrefines**

Non-serrated  
 Strong pressure  
 26 mm



Straight  
 No. 18052-01  
 \$13.50



Light bend  
 No. 18052-02  
 \$14.50



Sharp bend  
 No. 18052-03  
 \$15.50



**Mini Serrefines**

Smallest bulldog-type hemostatic clamps  
 Medium pressure  
 Gentle serrations  
 2 mm wide  
 28 mm

Straight  
 No. 18054-28  
 \$106.50



Curved  
 No. 18053-28  
 \$115.50



**Bulldog Artery Spring Clamp**

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

Straight  
 Serrated  
 Light pressure  
 30 mm



For more information  
 see page 183.

No. 18144-30  
 \$420.00



### Silver Neuro Clips

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

Pkg. of 100 clips  
 No. 18040-00  
 \$110.00

### 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

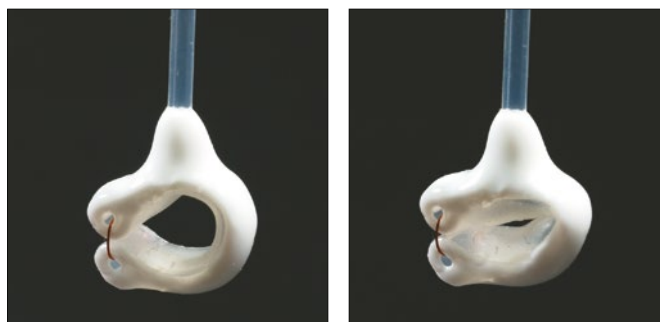
- Step 1** Apply the occluder cuff around the exposed blood vessel. Secure it in place with suture material through the eyelets.
- Step 2** Occlude the vessel to the desired degree by inflating the diaphragm with air or liquid injected into the actuating tube using a syringe and blunt needle. Clamp the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

#### Benefits

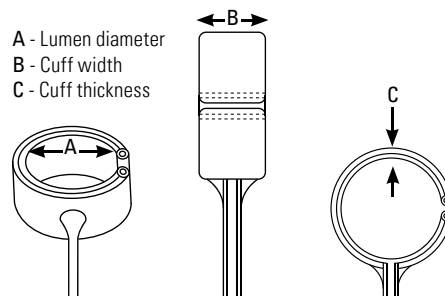
- Occlusion is accomplished without traction on vessels or surrounding tissues.
- The actuating tube may be exteriorized from the occlusion site for remote actuation.
- Performance during implantations is reliable and consistent.
- Autoclavable or cold sterilized, and easily maintained.
- Made from soft, 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.



#### VO-1.5 N

Lumen diameter: 1.5 mm  
 Cuff width: <3.5 mm  
 Cuff thickness: 1.5 mm

No. 18080-01  
 \$238.00

#### VO-2

Lumen diameter: 2 mm  
 Cuff width: 5 mm  
 Cuff thickness: 1.5 mm

No. 18080-02  
 \$238.00

#### VO-3

Lumen diameter: 3 mm  
 Cuff width: 5 mm  
 Cuff thickness: 1.5 mm

No. 18080-03  
 \$238.00

**V-Hook**

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



400%

Tip diameter: 0.4 x 0.2 mm  
11 cm

No. 18052-12  
\$99.00

**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.



150%

Ultrafine  
Hole diameter: 0.4 mm  
10.5 cm

No. 18062-12  
\$123.00



150%

Hole diameter: 1 mm  
13.5 cm

No. 18062-13  
\$77.00



150%



Hole diameter: 1 mm  
13.5 cm

No. 18063-13  
\$80.00

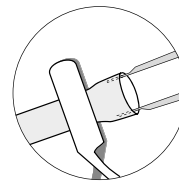
LIGATION

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**Vessel Dilators**

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



DILATORS



Angled 10°  
11 cm

Tip diameter: 0.1 mm  
No. 00126-11  
\$429.00

Tip diameter: 0.2 mm  
No. 00125-11  
\$396.00



Angled 45°  
13.5 cm

Tip diameter: 0.2 mm  
No. 00276-13  
\$418.00



Angled 10°  
12 cm

Tip diameter: 0.1 mm  
No. 18131-12  
\$278.00

Tip diameter: 0.2 mm  
No. 18132-12  
\$275.00

## Balanced Instruments

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.

### Vessel Dilators

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.

### Vessel Dilator



86% of actual size



Straight  
Suture tying platform  
Tip diameter: 0.1 mm  
14.5 cm

No. 18601-15  
\$476.00



86% of actual size



Straight  
Suture tying platform  
Tip diameter: 0.3 mm  
15 cm

No. 18602-15  
\$455.00



86% of actual size



Angled  
Smooth  
Tip diameter: 0.2 mm  
14.5 cm

No. 18603-14  
\$384.00

DILATORS

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**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.

8 cm

No. 18000-10  
\$82.50



CANNULATION

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

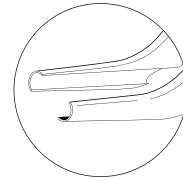
**2 Insertion**  
Remove trocar and advance cannula.

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

Instruments sold separately.

**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®**



**DUMONT**  
S W I S S M A D E



CANNULATION

For tubing between  
0.5 and 1 mm OD  
11 cm

**No. 00574-11**  
\$336.00

For tubing of 0.35 mm OD  
11 cm  
**No. 11280-11**  
\$332.00

For tubing of 0.5 mm OD  
11 cm  
**No. 11281-11**  
\$306.00

For tubing of 1 mm OD  
11 cm  
**No. 11282-11**  
\$280.00

For tubing of 0.35 mm OD  
11.5 cm  
**No. 18403-11**  
\$240.50

For tubing of 0.6 mm OD  
11.5 cm  
**No. 18406-11**  
\$231.00

For tubing of 0.6 mm OD  
13.5 cm  
**No. 18406-13**  
\$222.50

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## Surgical & Laboratory Accessories

Animal Accessories	Pages	141 – 143
Instrument Care & Accessories	Pages	144 – 155
Surgical Accessories	Pages	156 – 159
Laboratory Accessories	Pages	160 – 171



### Reusable Gavage Feeding Needles

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



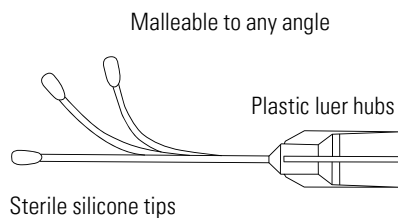
Gauge	Length (mm)	Tip diameter (mm)	Shape	Mice	Rats	Guinea pigs	Item	Price
24	25	1.25	Straight	>14 g			No. 18061-24*	\$69.50
22	25	1.25	Straight	15-20 g			No. 18061-22*	\$63.00
20	30	Barrel	Straight	20-25 g		50-75 g	No. 18060-20*	\$46.50
20	38	2.25	Straight	20-25 g		50-75 g	No. 18064-20	\$62.00
20	38	2.25	Curved	20-25 g		50-75 g	No. 18065-20	\$66.00
18	38	2.25	Straight	20-30 g	100-200 g	250-300 g	No. 18061-38	\$63.00
18	50	2.25	Curved	25-30 g	100-200 g	250-300 g	No. 18061-50*	\$64.00
16	75	3.00	Curved		150-300 g	350-450 g	No. 18061-75	\$63.50
16	100	3.00	Curved		150-300 g	350-450 g	No. 18061-10	\$51.50

\* MOST POPULAR

### 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.**

MOST POPULAR



Pkg. of 5 needles

Gauge	Length (mm)	Tip diameter (mm)	Shape	Mice	Rats	Guinea pigs	Item	Price
20	38	1.75	Flexible	20-25 g	50-75 g		No. 18061-20	\$39.00
18	50	2.50	Flexible	25-30 g	100-200 g		No. 18061-18	\$39.00
15	75	3.00	Flexible		200-350 g	400-600 g	No. 18061-15	\$39.00

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**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.**



80% of actual size

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.

Stainless steel and anodized aluminum  
Punch diameter: 2 mm  
11.5 cm

No. 24215-02  
\$131.00



**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.**



80% of actual size

Stainless steel and anodized aluminum  
Punch diameter: 2 mm  
11.5 cm

No. 24214-02  
\$75.00

**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.



80% of actual size

10.5 cm

Punch diameter: 1 mm  
No. 24212-01  
\$52.00

Punch diameter: 2 mm  
No. 24212-02  
\$49.50

### 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.



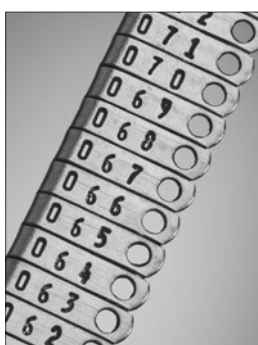
Ear tags  
Alloy: Monel  
7.8 x 2.8 mm

Black numbers 1-100  
No. 24220-10  
\$33.00

Black numbers 1-500  
No. 24220-50  
\$173.00

Black numbers 501-1000  
No. 24220-90  
\$173.00

**NEW  
ITEM**

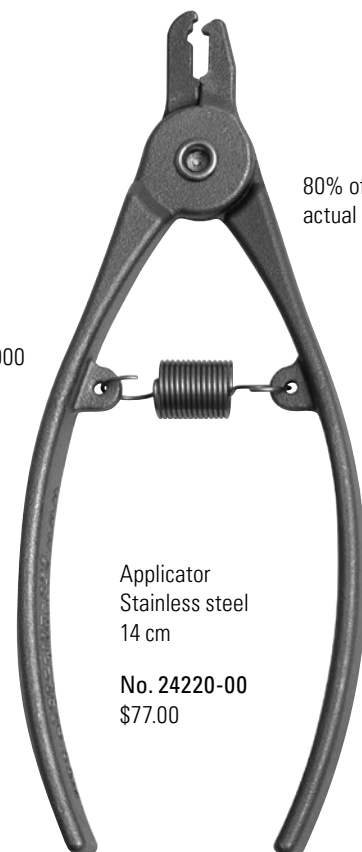


Ear Tags (enlarged view)

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

1 to 6 numbers only:	1 to 6 letters or numbers:
\$58.00 per 100 ear tags	\$74.00 per 100 ear tags
\$170.00 per 500 ear tags	\$180.00 per 500 ear tags

For special order, use item No. 70000-10 and indicate sequence. Please allow 5 to 6 weeks for delivery.



80% of actual size

Applicator  
Stainless steel  
14 cm

No. 24220-00  
\$77.00

### 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 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



55% of actual size



Animal microtattoo system  
13 cm

No. 24201-00  
\$644.00

Green tattoo paste  
1 oz / 29.6 ml

No. 24201-01  
\$13.50

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**Silicone Seal and Lubricant**

This stiff non-melting silicone base maintains its consistency from -40°C to 200°C (40°F to 392°F) with less than 2% evaporation after 24 hours of exposure to 150°C (302°F). Typical applications include lubrication of stopcock rotating parts and other lab items. Seals vacuum and low pressure systems. Compatible with glass, plastics, metals, synthetic rubber gaskets and seals. **Autoclavable.**

15 ml container  
 No. 29051-45  
 \$6.00

**Demagnetizer**

This safe and easy to operate tabletop demagnetizer has a large coil opening of 8 x 4 cm in a rigid, molded housing. Can be used to demagnetize or magnetize instruments.

12 x 5.5 x 9 cm

No. 18000-15  
 \$127.50



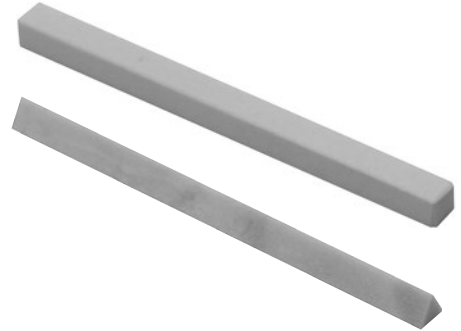
**Instrument Sharpening Stones**

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  
 \$20.00

Triangular stone  
 No. 29008-12  
 \$21.00



**Instrument Oil and Oil Pen**

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

50 ml bottle  
 No. 29055-00  
 \$15.50



7 mm needle  
 12.5 cm

12 ml oil pen  
 No. 29055-12  
 \$18.50



### 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.

4 x 1 x 10 cm

No. 29008-22  
\$68.50



### Fine Forceps Repair Kit

Realign and repair fine forceps with this convenient kit. Bent forceps 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 forceps tips. O-rings clamp the forceps shut to ensure that both shanks are equally aligned and sharpened. Instrument oil assists in producing a smooth sharp edge. Detailed instructions are included.

Kit includes:

- 1 Sharpening stone for fine forceps with ten O-rings (No. 29008-22)
- 1 Instrument oil, 50 ml bottle (No. 29055-00)
- 1 Chain nose pliers

No. 29000-00  
\$102.00

**MOST  
POPULAR**

### Optical Cleaning Kit and Lens Paper

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)

Kit  
No. 29000-10  
\$36.00

Lens Paper  
15 x 10 cm  
Book of 50 sheets  
No. 29015-50  
\$6.00



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**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.**

Material: Vinyl  
290 x 0.6 cm (each roll)



Green  
No. 29071-01  
\$15.50



Blue  
No. 29071-02  
\$15.50



Yellow  
No. 29071-03  
\$15.50



Red  
No. 29071-04  
\$15.50



White  
No. 29071-05  
\$15.50



Black  
No. 29071-06  
\$15.50



Brown  
No. 29071-07  
\$15.50



Orange  
No. 29071-08  
\$15.50

**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, Blue and Orange. **Autoclavable.**

Material: Vinyl  
107 x 0.6 cm (each roll)

No. 29080-00  
\$41.00



**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.**  
Material: Plastisol



1.6 x 19.1 mm

Pkg. of 25  
No. 29060-01  
\$17.00



2 x 19 mm

Pkg. of 25  
No. 29060-02  
\$17.00



2.8 x 19.1 mm

Pkg. of 25  
No. 29060-03  
\$17.00



3.2 x 25.4 mm

Pkg. of 25  
No. 29060-04  
\$17.00



4.8 x 25.4 mm

Pkg. of 25  
No. 29060-05  
\$17.00



2 x 9.5 x 25.4 mm

Pkg. of 25  
No. 29060-06  
\$17.00



Assorted pack, five of each size

Pkg. of 30  
No. 29060-00  
\$20.00

**MOST POPULAR**

**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.**  
Material: Plastisol



12.7 x 20 mm

Pkg. of 10  
No. 29066-01  
\$14.50



9 x 25.5 mm

Pkg. of 10  
No. 29066-02  
\$14.50



15 x 25 mm

Pkg. of 10  
No. 29066-03  
\$14.50



25 x 26 mm

Pkg. of 10  
No. 29066-04  
\$14.50



Assorted pack, three of each size

Pkg. of 12  
No. 29066-00  
\$16.50

TIP PROTECTORS

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**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.

**Advantages:**

- 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**  
\$54.50

13 x 26 cm  
For instruments up to 23 cm long

Pkg. of 100 pouches  
**No. 28000-10**  
\$68.50

18 x 30 cm  
For instruments up to 26 cm long

Pkg. of 100 pouches  
**No. 28000-12**  
\$89.50

STERILIZATION  
POUCHES

### 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), and 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
- 2 Bags 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.

STERILIZER

**FST 250 Sterilizer**

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

**No. 18000-45**  
\$825.00

**Replacement glass beads for FST 250**  
**No. 18000-46**  
\$43.50

**FST 350 Sterilizer**

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

**No. 18000-50**  
\$985.00

**Replacement glass beads for FST 350**  
**No. 18000-51**  
\$62.00

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**Autoclave Tape Dispenser**

Easy loading core with heavy duty steel construction and a non-skid base. Serrated cutting blade cuts tape fast and cleanly.



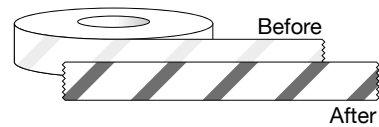
Coated steel  
23.5 cm

Tape sold separately.

No. 28001-00  
\$35.00

**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  
\$15.50

**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.

14 cm

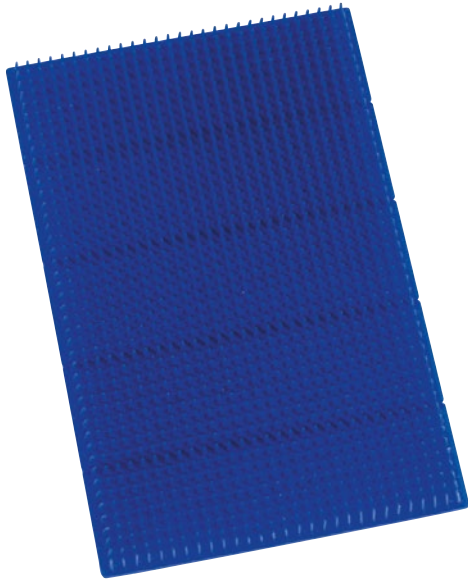
No. 18000-30  
\$5.50



80% of actual size

**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  
\$152.50

**Magnetic Sterilization Mat**

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



Instruments not included.

30 x 20 cm

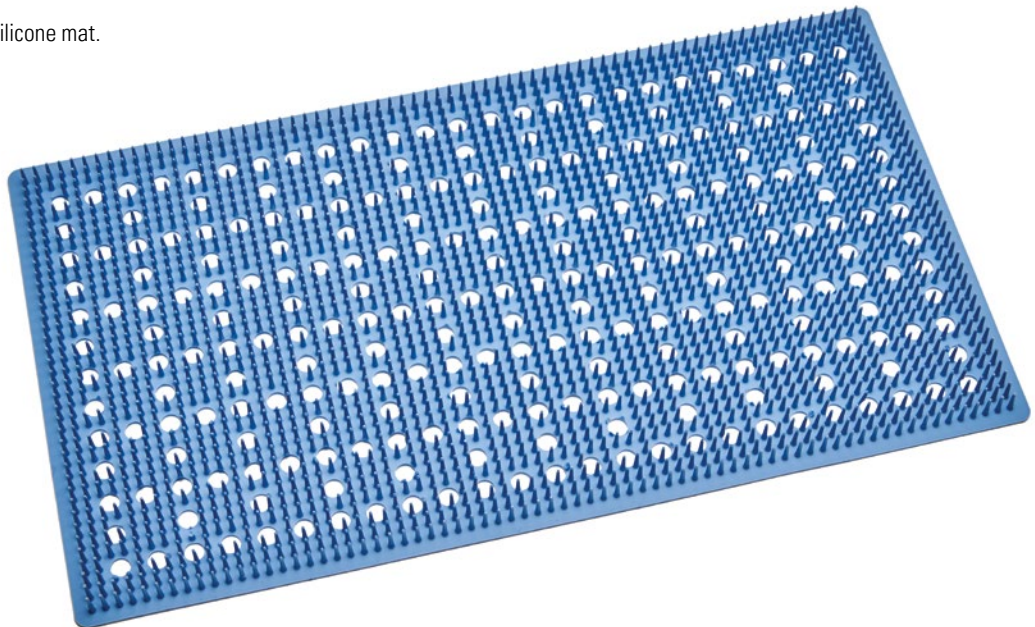
No. 20350-00  
\$190.50

**Silicone Mat**

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

46 x 25 cm

No. 20325-10  
\$118.50



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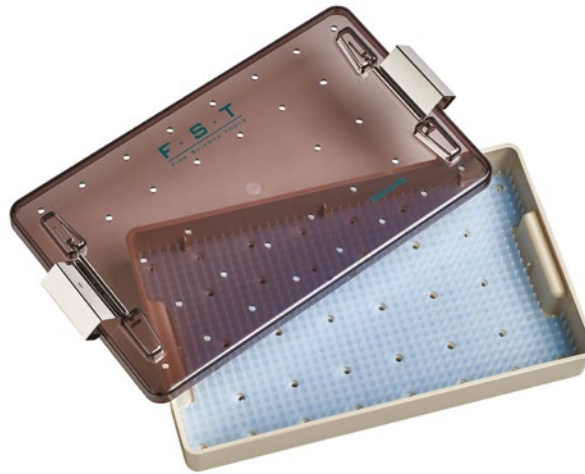


**Sterilization Container**

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  
\$179.00



27 x 16 x 4 cm  
No. 20810-02  
\$292.50



**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  
\$268.00

CASES & WRAPS

**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

51 x 51 cm

Pkg. of 25 wraps  
No. 28015-15  
\$10.50

Pkg. of 25 wraps  
No. 28020-20  
\$14.50

Cases not included.

**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.**



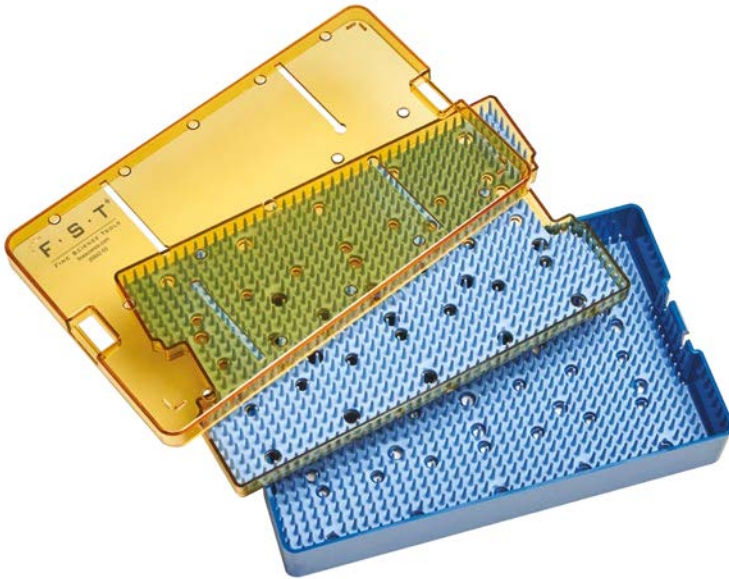
Single tier  
19 x 7 x 2 cm

No. 20840-01  
\$62.00



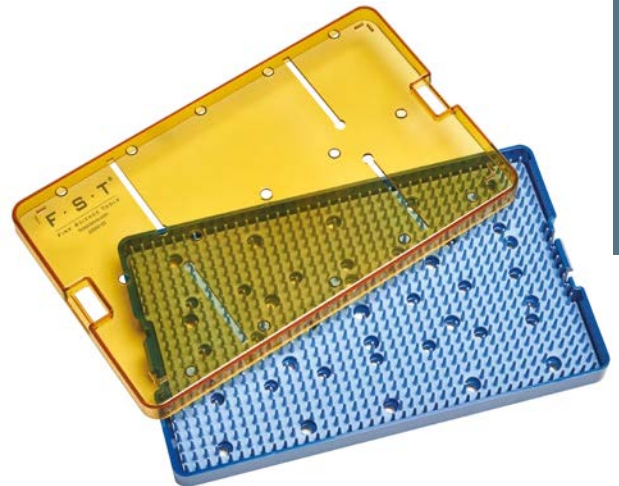
Single tier  
17 x 10 x 2 cm

No. 20840-02  
\$89.00



Double tier  
25 x 15 x 4 cm

No. 20842-03  
\$246.00



Single tier  
25 x 15 x 2 cm

No. 20840-03  
\$124.00

**MOST  
POPULAR**

CASES

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**Dual Clamping Stainless Steel Sterilization Container**

This container will assist in the sterilization and storage of your fine surgical instruments. It comes with a custom fit silicon mat and one single-use filter for keeping the instruments sterile while they remain in the container. **Suitable for autoclave or ethylene oxide sterilization.**



30 x 14 x 4 cm

No. 20850-00  
\$340.00

5 Long-term textile filters  
No. 20850-10  
\$54.00

**Stainless Steel Sterilization Container**

Removable perforated interior plates hold long-term textile filters which keep the instruments sterile while they remain in the container. Lid can be locked in place. Comes with two textile filters installed. **Suitable for autoclave or ethylene oxide sterilization.**



20 x 10 x 4 cm

No. 20890-51  
\$366.00

10 Long-term textile filters  
No. 20890-72  
\$101.00

**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.**

18 x 9 x 3 cm

No. 20311-21  
\$122.50

**MOST POPULAR**



**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.**

17 x 8 x 2 cm

**MOST POPULAR**



Instruments not included.



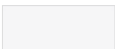
Blue

No. 20830-00  
\$14.50



Green

No. 20830-01  
\$14.50



Clear

No. 20830-02  
\$14.50



Yellow

No. 20830-03  
\$14.50



Pink

No. 20830-04  
\$14.50



Orange

No. 20830-05  
\$14.50

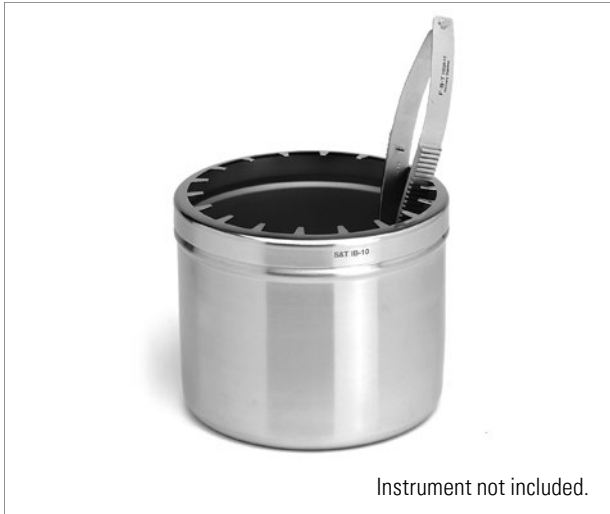


Purple

No. 20830-06  
\$14.50

CASES

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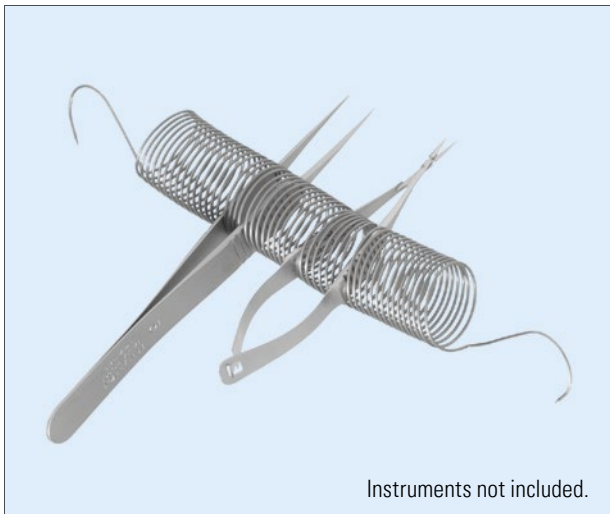


**Instrument Beaker with Silicone Bottom**

Instruments are placed in the beaker with their tips immersed in distilled water when not in immediate use. This keeps the instruments clean and functional and ready to grasp. The instrument tips are protected from damage by the soft silicone rubber bottom. Segmented lid keeps instruments organized and secure.

Diameter: 10 cm  
Height: 8 cm

No. 00081-00  
\$313.50



**Instrument Holding Spring**

For the safe placement of delicate surgical instruments during use. Pin the sharp ends into the drape to secure the mounting spring.

Diameter: 2 cm  
Length: 4 cm (closed)

No. 18090-00  
\$26.00

**Stainless Steel Burrs**

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



Diameter (mm)	Item	Price
0.7*	No. 19008-07	\$26.50
0.9**	No. 19008-09	\$26.50
1.4	No. 19008-14	\$26.50

\* Use this size for screws No. 19010-10.  
\*\* Use this size for screws No. 19010-00.

**Carbon Steel Burrs**

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



Diameter (mm)	Item	Price
0.5	No. 19007-05	\$19.50
0.7*	No. 19007-07	\$19.50
0.9**	No. 19007-09	\$19.50
1.4	No. 19007-14	\$19.50
2.1	No. 19007-21	\$19.50
2.9	No. 19007-29	\$38.00

\* Use this size for screws No. 19010-10.  
\*\* Use this size for screws No. 19010-00.

**MOST POPULAR**

**Tungsten Carbide Burrs**

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



**TUNGSTEN  
CARBIDE**

For more information see page 183.

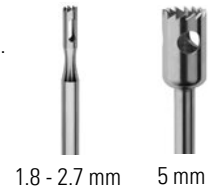
Diameter (mm)	Item	Price
0.5	No. 19009-05	\$33.00
0.7*	No. 19009-07	\$32.00
0.9**	No. 19009-09	\$32.00

\* Use this size for screws No. 19010-10.  
\*\* Use this size for screws No. 19010-00.

**Stainless Steel Trepines**

Side opening for clearing of material.

Shaft diameter: 2.3 mm  
Length: 44 mm  
Sold individually



Diameter (mm)	Item	Price
1.8	No. 18004-18	\$24.50
2.3	No. 18004-23	\$24.50
2.7	No. 18004-27	\$30.00
5	No. 18004-50	\$56.00

DRILL BITS

**Stainless Steel Circular Saw**

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

Diameter: 16 mm  
Thickness: 0.1 mm



Pkg. of 10 saws  
No. 18000-20  
\$51.00

**Stainless Steel Mandrel**

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

Shaft diameter: 2.3 mm  
Length: 45 mm

No. 18000-18  
\$7.00



**Low Cost Cautery Kit**

This low cost, 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 diameter  
Total weight: 60 g  
Length: 17.5 cm (without tip)

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

Cautery kit  
No. 18010-00  
\$105.00

**MOST POPULAR**

65% of actual size



Replacement tips  
Straight standard

Box of 10 tips  
No. 18010-01  
\$101.00

**MOST POPULAR**



Replacement tips  
Straight fine

Box of 10 tips  
No. 18010-02  
\$112.50

**MOST POPULAR**

**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 diameter  
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

Cautery kit  
No. 18000-00  
\$577.00

**Cautionary note:**  
Remove batteries before autoclaving.

65% of actual size



Replacement tip  
Straight fine

No. 18000-01  
\$90.00



Replacement tip  
Angled fine

No. 18000-02  
\$90.00



Replacement tip  
Straight knife

No. 18000-03  
\$90.00

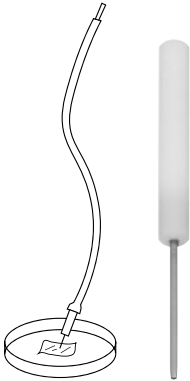


Replacement tip  
Straight knob

No. 18000-04  
\$90.00

**Neuro Punches**

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

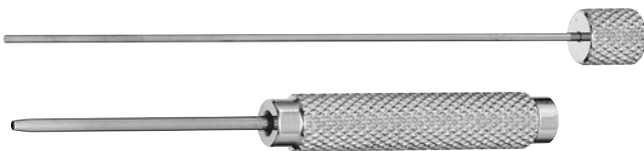


ID (mm)	OD (mm)	Gauge	Length (cm)	Item	Price
0.31	0.61	24	4.2	No. 18036-24	\$60.00
0.41	0.70	22	4.5	No. 18036-22	\$60.00
0.69	1.00	19	4.5	No. 18036-19	\$60.00

**Sample Corers**

For quantitative analysis. Comes with plunger.

8.5 cm



ID (mm)	OD (mm)	Gauge	Item	Price
0.35	0.80	21	No. 18035-35	\$99.00
0.50	1.00	19	No. 18035-50	\$75.00
0.80	1.45	17	No. 18035-80	\$75.00
1.00	1.80	15	No. 18035-01	\$72.00
2.00	3.00	11	No. 18035-02	\$72.00
3.00	4.00	8	No. 18035-03	\$72.00
5.00	6.00	4	No. 18035-05	\$72.00

**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.

**MOST POPULAR**



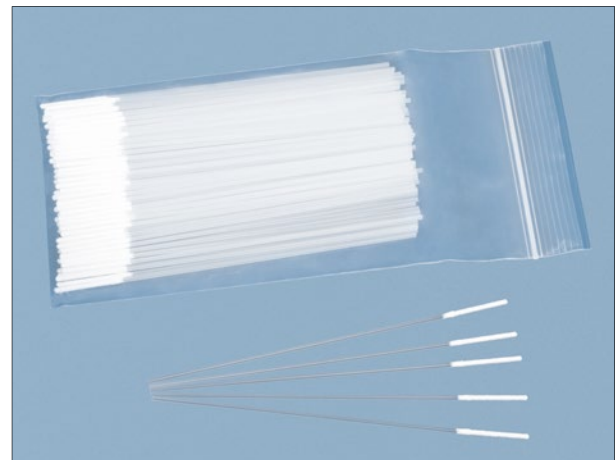
**Absorption Spears Sterile**  
7 cm

**Absorption Triangles Sterile**  
2 cm

Box of 200 spears  
No. 18105-01  
\$168.00

Box of 500 triangles  
No. 18105-03  
\$154.00

**Fiber Optic Swabs**



Straight

Pack of 100  
Tip diameter: 2.5 mm  
15 cm

No. 18106-01  
\$153.00

**NEW ITEM**

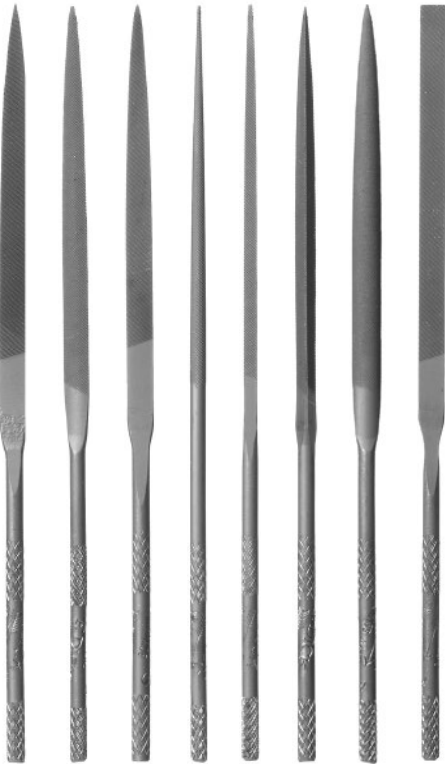
ACCESSORIES

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**Miniature File Set**

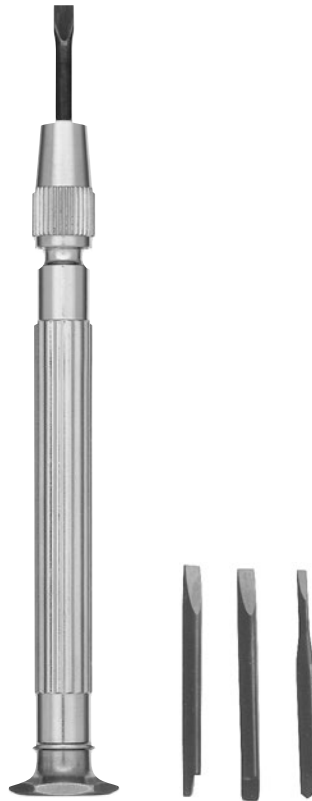
Comes with 8 different file profiles in a vinyl pouch.  
**Not autoclavable.**



10 cm  
 No. 30076-14  
 \$124.00

**4-in-1 Screwdriver**

With 4 hardened, interchangeable blades stored in handle: 1.5, 2, 2.5, and 3 mm.



10.5 cm  
 No. 30051-10  
 \$30.00

**Ceramic Blade Cutter**



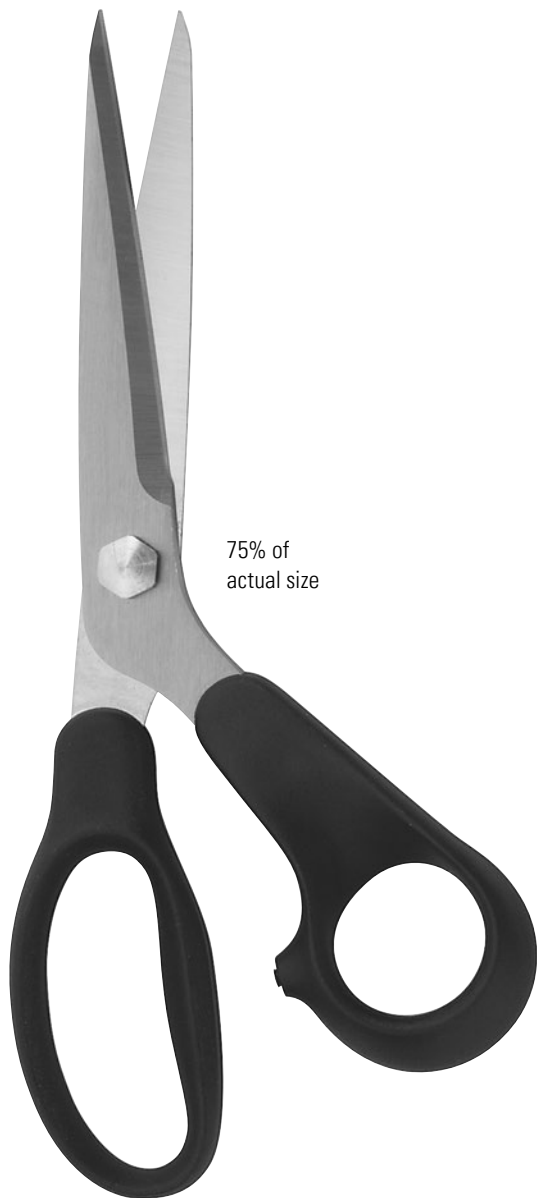
No. 10025-70  
 \$29.00

**NEW  
 ITEM**

TOOLS

**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. **Not autoclavable.**



75% of actual size

Stainless steel with plastic handle  
21 cm

Right-handed  
No. 37500-00  
\$39.00

**LEFT HANDED**   
No. 37000-00  
\$46.50

**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. **Not autoclavable.**



Stainless steel with plastic handle  
13 cm

Right-handed  
No. 37500-05  
\$31.00

**NEW ITEM**

TOOLS

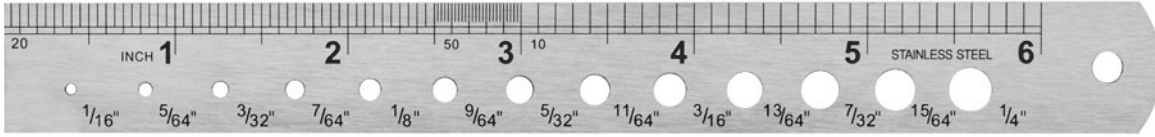
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**Ruler with Gauge Measurements**

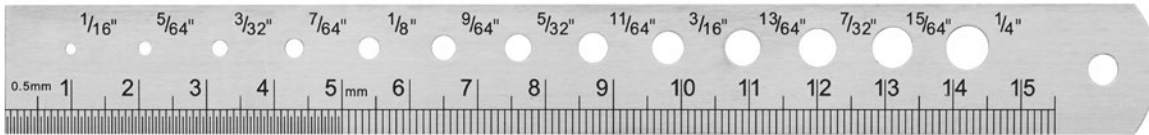
Stainless steel

15 cm (6")  
No. 30085-15  
\$7.50

90% of actual size



Front



Back

**Ruler with Metric Conversion Table**

Stainless steel

30 cm (12")  
No. 30085-30  
\$5.50

50% of actual size



Front



Back

**Ruler Label**

Used for stable measurements in all surgical platforms.

6 cm

Pkg. of 25 labels  
No. 29027-00  
\$6.00



**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". Capacity is 13 cm.



75% of actual size

21 cm

No. 30087-20  
\$41.00

**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  
\$48.50

**Castroviejo Surgical Caliper**

Used for precise measurement during surgery.



0-20 mm with 0.5 mm divisions  
Tip diameter: 0.5 mm  
8.5 cm

No. 18000-35  
\$438.00

CALIPERS

**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)  
 Illumination: Ultra-bright LED  
 38 x 38 x 40 mm

No. 29026-10  
 \$175.00



**Stage Micrometers**

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

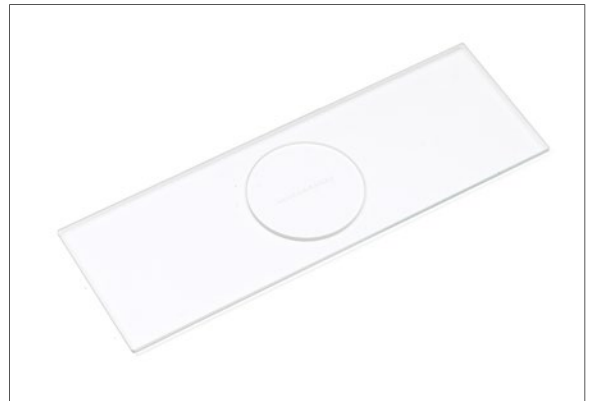
76 x 26 mm

10 mm with 100 divisions (0.1 mm)

No. 29025-01  
 \$189.00

1 mm with 100 divisions (0.01 mm)

No. 29025-02  
 \$197.00



### 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  
AAA battery included

No. 27000-01  
\$41.00



### Gold Wire Contacts

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

Total length: 16 mm (when connected together)  
Diameter: 1.2 mm  
Opening for wire: 0.63 mm

Pkg. of 50 male contacts  
No. 19003-00  
\$108.50

Pkg. of 50 female contacts  
No. 19003-01  
\$163.00



Enlarged

**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).

MAGNIFIERS

Magnification: 2.5x  
Working distance: 200 mm (8")

No. 28030-02  
\$93.00

Magnification: 2.75x  
Working distance: 150 mm (6")

No. 28030-03  
\$100.00

Magnification: 3.5x  
Working distance: 100 mm (4")

No. 28030-04  
\$102.00

**VisorLIGHT™**

Small, portable light source with 3.9 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.



No. 28030-10  
\$50.00

### 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)

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

Field of view: Variable

Working distance: Variable

No. 28080-10  
\$42.00

**MOST  
POPULAR**



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

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**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: 400 mm (16")  
Weight: 72 g

No. 28050-30  
\$335.00

Magnification: 3.5x  
Working distance: 300 mm (12")  
Weight: 77 g

No. 28050-35  
\$390.00



MAGNIFIERS

**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: 350 mm (14")  
Weight: 70 g  
Plastic frame reinforced with fiberglass

No. 28040-30  
\$494.00



**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  
\$13.00



### 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: 400 mm (16")

Weight: 49 g

No. 28030-20

\$140.00

**MOST  
POPULAR**



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

### 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 Headband Magnifiers. Comes with 3 AA batteries and storage case.

Gross Weight: 106 g (including batteries)

No. 28030-25

\$188.00

**MOST  
POPULAR**





### 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  
\$36.00



### 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  
\$6.00

**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: Latest SMD LED technology

Power source: 120V & 220V

No. 28015-25

\$675.50

**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: 75 mm (3")

Lens material: PXM® lightweight lens with patented

Ceratec® scratch-resistant coating

Illumination: Latest SMD LED technology

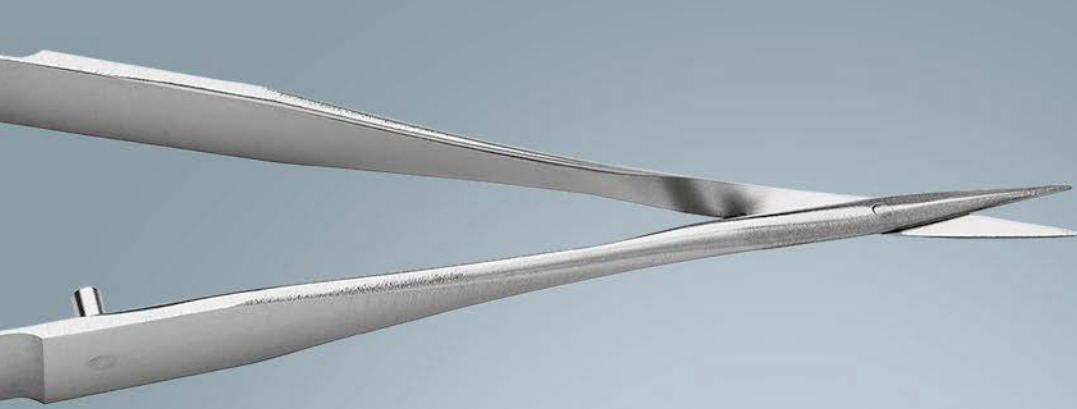
Power source: 4 AA batteries (included)

No. 28020-28

\$184.00



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## Student Quality Instruments

Scissors	Pages	173 – 174
Cutter	Page	174
Vessel Dilator	Page	175
Forceps	Pages	175 – 177
Hemostat, Needle Holder, Pin Holder, Scalpel Handle & Retractor	Pages	178 – 179

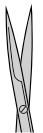


**Vannas Spring Scissors**

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.



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



Straight

No. 91500-09  
\$102.00

**MOST POPULAR**



Curved

No. 91501-09  
\$111.00

**Fine Scissors**



11.5 cm



Straight

No. 91460-11  
\$45.00

**MOST POPULAR**



Curved

No. 91461-11  
\$49.00

**Quantity discount for student instruments:**

5-9 = 5%  
10+ = 10%

*Per item, selection cannot be assorted for discount.*

For more info on student instruments see page 187.

**Surgical Scissors**



90% of actual size



Sharp/Sharp

10.5 cm  
No. 91402-10  
\$35.00



Sharp/Blunt

10.5 cm  
No. 91401-10  
\$33.00



Blunt/Blunt

10.5 cm  
No. 91400-10  
\$32.00

12 cm  
No. 91402-12  
\$37.00

12 cm  
No. 91401-12  
\$35.00

12 cm  
No. 91400-12  
\$34.00

14.5 cm  
No. 91402-14  
\$40.00

14.5 cm  
No. 91401-14  
\$38.00

14.5 cm  
No. 91400-14  
\$36.00

STUDENT

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**Lister Scissors**

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



Angled to side  
Blunt/Blunt  
14 cm

No. 91413-14  
\$33.00

**Bone Scissors**

For cutting fine bone.



Curved

Cutting edge: 9 mm  
9 cm

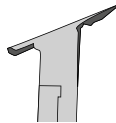
No. 91604-09  
\$70.00

**Quantity discount for student instruments:**

5-9 = 5%  
10+ = 10%

*Per item, selection cannot be assorted for discount.*

For more info on student instruments see page 187.

**Bone Cutter**

Angled 30°

Cutting edge: 19.5 mm  
Blue Plastic Handle  
11 cm

No. 91601-11  
\$153.00

**NEW  
ITEM**



Vessel Dilator



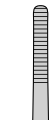
Angled 10°

Tip diameter: 0.3 mm  
11 cm

No. 91815-11  
\$124.00

Standard Pattern

Broad pattern with strong spring action.

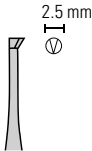


Serrated

Tip width: 2.5 mm  
11.5 cm  
No. 91100-12  
\$16.50



Tip width: 3.5 mm  
16 cm  
No. 91100-16  
\$21.50



1x2 teeth

Tip width: 2.5 mm  
12 cm  
No. 91121-12  
\$19.50

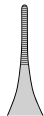
Quantity discount for student instruments:  
5-9 = 5%  
10+ = 10%  
Per item, selection cannot be assorted for discount.

Adson

Wide, strong grip with narrow tips.

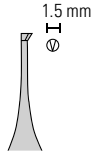


Tip width: 1.5 mm  
12 cm



Serrated

No. 91106-12  
\$24.50



1x2 teeth

No. 91127-12  
\$28.00

STUDENT



**Dumont #5**

**Dumont #7**

**Quantity discount for student instruments:**

5-9 = 5%

10+ = 10%

*Per item, selection cannot be assorted for discount.*

For more info on student instruments see page 187.



**MOST POPULAR**

Standard tip  
0.1 x 0.06 mm  
Inox  
11 cm

No. 91150-20  
\$41.00

**MOST POPULAR**

Standard tip  
0.17 x 0.1 mm  
Inox  
11 cm

No. 91197-00  
\$44.50

**Fine Forceps  
Straight**



0.2 x 0.1 mm  
11 cm

No. 91115-10  
\$40.00

**Fine Forceps  
Broad Shanks**



0.2 x 0.2 mm  
12 cm

No. 91113-10  
\$39.00

**Fine Forceps  
Curved**



0.2 x 0.2 mm  
12 cm

No. 91117-10  
\$44.50

**Fine Forceps  
Angled**



0.2 x 0.2 mm  
11 cm

No. 91110-10  
\$43.50

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

STUDENT

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**Halsted-Mosquito Hemostat**

**Halsey Needle Holder**

**Quantity discount for student instruments:**

5-9 = 5%  
10+ = 10%

*Per item, selection cannot be assorted for discount.*

For more info on student instruments see page 187.



Straight  
12.5 cm

No. 91308-12  
\$37.00



Curved  
12.5 cm

No. 91309-12  
\$39.00



13 cm

**MOST POPULAR**

No. 91201-13  
\$53.50

For suture needles, see page 116 & 117.

STUDENT

**Pin Holder**



Nickel-plated  
Jaw opening: 0-1 mm  
7.5 cm

No. 91606-07  
\$12.50

For pins, see  
page 109.

**Standard Scalpel  
Handle #3**



12 cm

No. 91003-12  
\$16.50

For scalpel blades,  
see page 58.

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

**Spring-Loaded Retractor**



Curved atraumatic blades  
Maximum spread: 3 cm  
Blade dimensions: 14 x 10 mm  
8.5 cm

No. 91706-05  
\$50.50

STUDENT



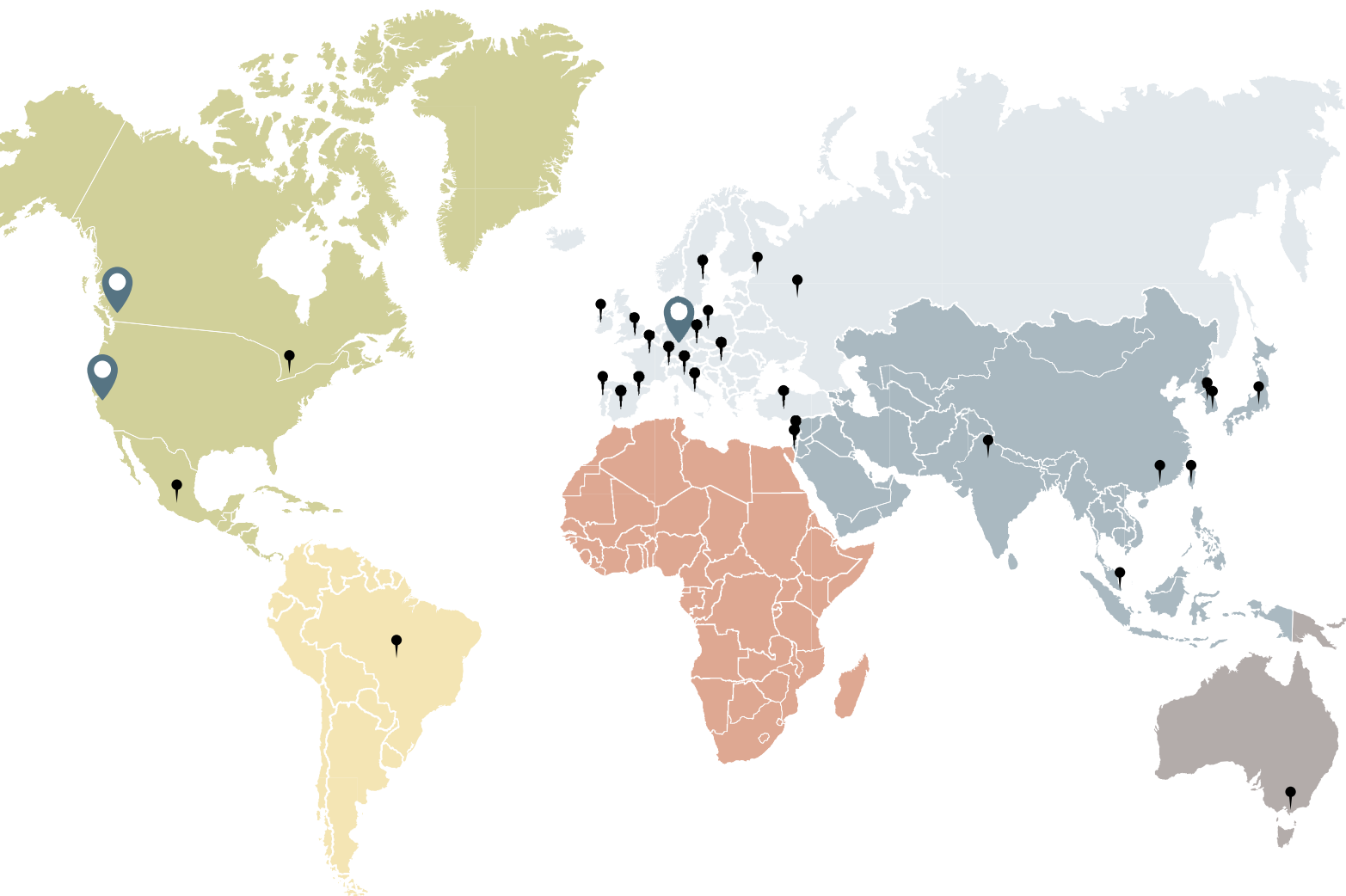
## Reference Pages

Worldwide Locations	Page	181
Scissors Test	Page	182
Features and Alloys	Page	183
Maintenance and Care	Pages	184 – 185
Quality Control	Page	186
Student Line	Page	187
Selection	Page	188
Dumont	Page	189
Numerical Index	Pages	190 – 193
Alphabetical Index	Pages	194 – 199
Additional Information	Page	200


# Fine Science Tools Around the World


## Commitment to excellence

For decades, we've demonstrated our commitment to excellence with genuine quality and a 100% satisfaction guarantee. As a result, our products continue to be the preferred instruments among scientists and biomedical researchers worldwide.



We have offices and dealers throughout the world and have been shipping globally since 1974.

	<b>Offices</b> finescience.com finescience.de finescience.ca	USA Europe Canada/International
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	<b>Dealers</b> To see a complete list of Fine Science Tools dealers, please visit us at <a href="https://finescience.ca/en-CA/Contact/FST-Dealers">finescience.ca/en-CA/Contact/FST-Dealers</a> .
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**RESEARCH ONLY**

PRODUCTS ARE FOR RESEARCH AND VETERINARY PURPOSES ONLY.

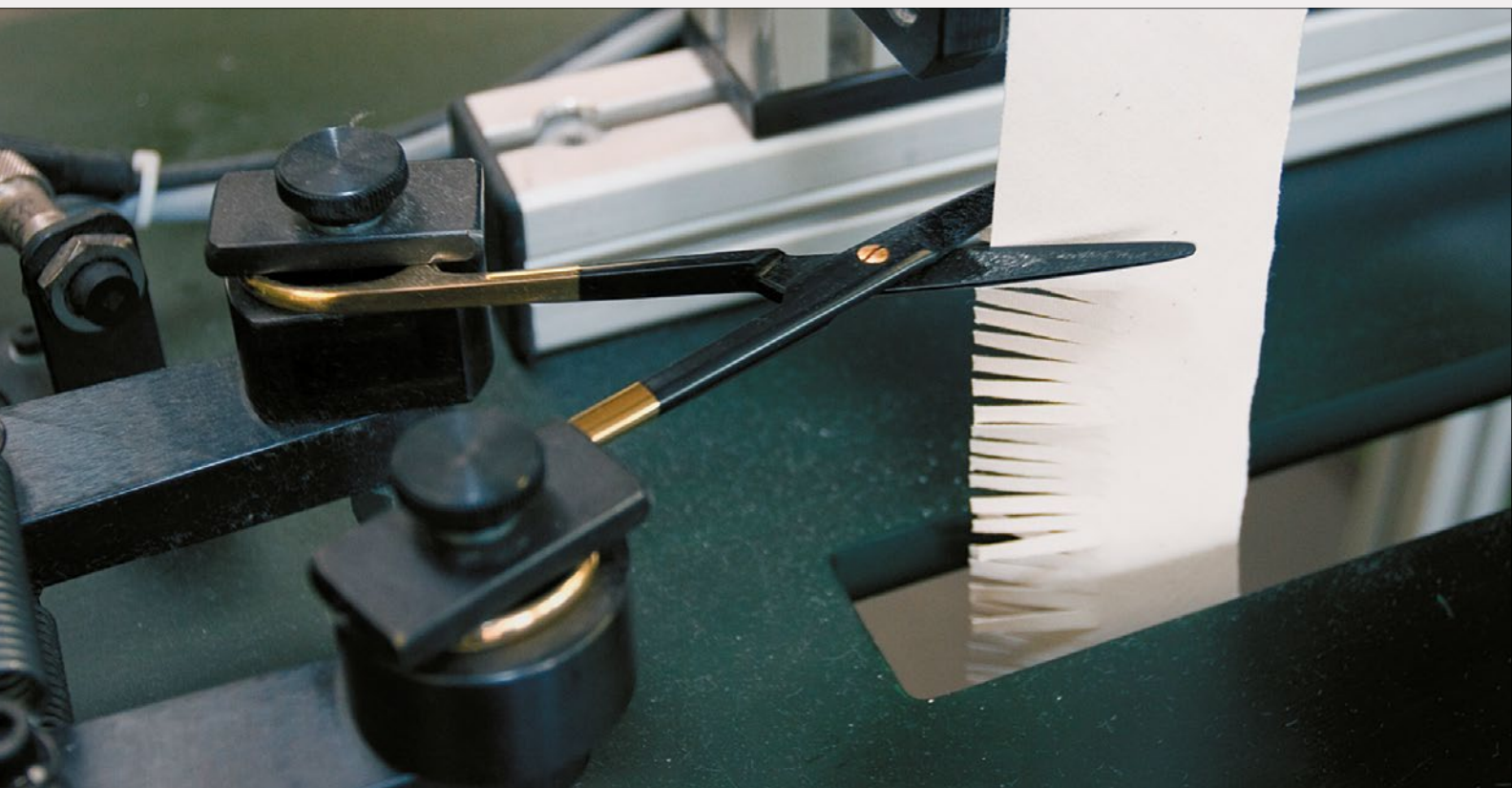
WORLDWIDE

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

Pictured below is a scissors testing device used to compare various alloys and cutting edge styles. The scissors 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 verify that the addition of various features dramatically increases the cutting life of the scissors. Most notably, the cutting life is more than doubled with the addition of ToughCut blades to stainless steel, and over six times longer with CeramaCut blades.

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

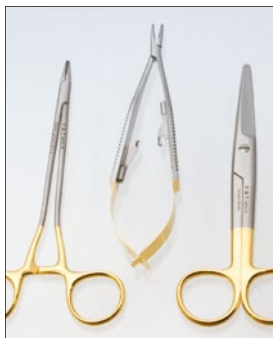


***The cutting life is more than doubled with the addition of ToughCut blades to stainless steel, and over six times longer with CeramaCut blades.***

Alloy/Material	Lasts longer than stainless steel by:
Tungsten Carbide	1.9x
Stainless Steel with ToughCut	2.3x
Tungsten Carbide with ToughCut	4.1x
CeramaCut (Ceramic Coated Tungsten Carbide with ToughCut)	6.6x

See page 183 for more information on ToughCut, Tungsten Carbide and CeramaCut.

## Tungsten Carbide



When you place heavy demands on your surgical instruments, be it scissors, needle holders, or forceps, you should consider the benefits of tungsten carbide, one of the hardest alloys available. Tungsten carbide scissors last almost two times longer than stainless steel, and needle holder tips can be made with a pyramid cross pattern that holds suture needles much more securely. Inlays are either glued or welded into place.

Compare the extra cost of these instruments with the length of useful wear and you have a cost effective solution for your instrument requirements. Tungsten carbide instruments are identified by their gold handles.

- Bone Cutters: page 41
- Scissors: pages 10, 20–21, 23, 30–32, 34 and 44
- Forceps: page 84
- Needles: page 109
- Needle Holders: pages 111–115
- Burrs: page 157

Look for this symbol



## ToughCut® Scissors



ToughCut scissors feature two unique cutting edges that cut through the toughest tissue with exceptional ease and accuracy. One blade is honed to razor sharpness, and the other is micro-serrated to minimize tissue slippage during cutting. Scissors with ToughCut edges are identified by their black handles.

For ToughCut scissors that last almost two times longer, select ToughCut with tungsten carbide cutting edges.

- Scissors: pages 6, 15, 20–21, 30, 33–34

Look for this symbol



## Ceramic and CeramaCut® Instruments



One of the hardest materials on Earth, ceramic is used in surgical instruments to form edges that last longer than stainless steel and even longer than tungsten carbide. Ceramic also has a high slide capacity which reduces surface tension and results in a much cleaner cut than metal instruments. Our CeramaCut scissors combine ToughCut technology with tungsten carbide edges and a ceramic coating for one of the best, cleanest cutting scissors available on the market today.

- CeramaCut Scissors: page 21
- Ceramic Blades: page 52
- Ceramic Cutter: page 160
- Ceramic Coated Forceps: pages 63 and 69
- Ceramic Coated Spring Scissors: pages 7 and 11

Look for this symbol



## Titanium

Titanium instruments are over 40% lighter than equivalent stainless steel instruments, with better flexibility and strength. Elemental titanium (Ti) is a very strong, lustrous, white metal with a specific gravity of 4.54. Titanium and titanium alloys readily form stable protective surface layers, giving them excellent corrosion resistance to saltwater, laboratory saline solutions, blood and other bodily fluids, oxidizing acids, alkalis and chlorides. Titanium is 100% nonmagnetic; a great benefit when working with nerves. Its inherent surface oxide film provides bactericidal and non-allergenic properties. Titanium alloys can be heated up to 440°C (824°F).

- Scissors: pages 6 and 11
- Forceps: pages 65, 69, 80, 86 and 90
- Probes, Y-Hook and Spatula: page 102
- Vascular Clamps: pages 132–133

Look for this symbol



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# Cleaning, Sterilization, Maintenance, & Storage of Surgical Instruments

*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 Care & Maintenance

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/Autoclaving

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.

IMPORTANT NOTE: Do **NOT** mix instruments of different or unknown alloys in the autoclave.

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.
- Can be left on all day.
- Beads reach temperature of 240° - 270°C (464° - 518°F) within 15-20 minutes heating time.

Please see page 149 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 148 and 152.

### 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 147. Instrument cases are available, see pages 152 – 155.

### 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.

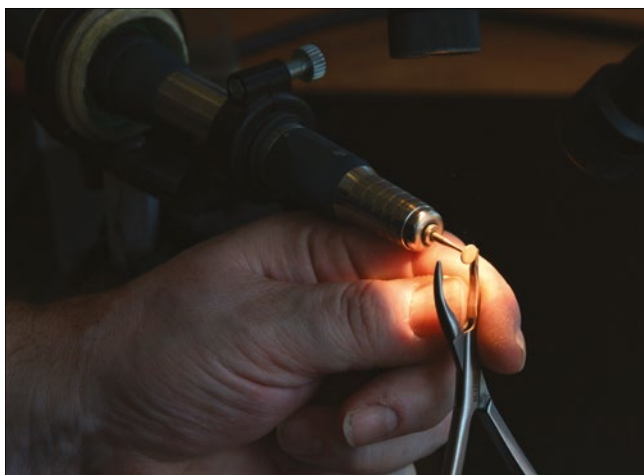
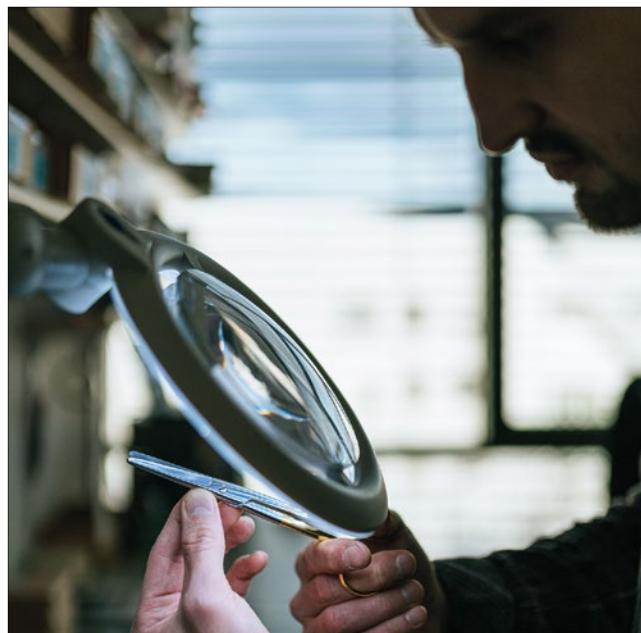
Although stainless steel is corrosive resistant, it can still rust or stain if handled improperly. Under unfavorable conditions instruments may oxidize because stainless steel that is exposed to physical, thermal, or chemical manipulations may lose some of its stainless properties.

## 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.





## FST Student Quality Instruments

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. All of our shipments come with an instruction pamphlet describing the use and care of surgical instruments. Visit our website at [finescience.ca](http://finescience.ca) for more information.

### Features:

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

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## We Proudly Stock



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 17, 29 and 161

Hemostatic Forceps: page 93

Needle Holders: pages 113-114

Ligation Aid: page 135



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 19, 28 and 31



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.



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. On page 189, you will find detailed descriptions to help guide you in choosing the right Dumont forceps best suited for your needs.



Moria of France is one of the most respected and well known ophthalmic instrument manufacturers in the world, offering some of the finest surgical instruments in the industry for almost 200 years.

Only quality Swedish and German stainless alloys are selected; and many hours of highly skilled labor are put into the manufacturing process, which includes hand crafted sharpening, balancing, and polishing, often done under 40x magnification. Moria’s product line includes scissors, spring scissors, forceps, spoons, vessel clamps, and more.



This Swiss manufacturer has established itself as one of the premier suppliers of superb microsurgical instruments worldwide. Unique designs, precise instrument balance, and optimum angles gives S&T instruments the “right feel” which is important for all procedures. S&T’s product line includes forceps, needle holders, scissors, vessel clamps, sutures, vessel cannulation forceps, vessel dilators, and more.

## Finding the Dumont forceps best suited for your needs:



Alloys	Hardness	Magnetic	Temperature resistance	Autoclavable	Advantages
<b>Titanium</b>	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.
<b>Dumoxel</b>	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.
<b>Inox</b>	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.
<b>Dumostar</b>	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.
<b>Carbon</b>	Hardest	Yes	N/A	No	Extremely hard; ensuring strong tips. Easily stains and rusts without proper care. <b>Carbon cannot be immersed in a water bath or sterilized.</b>

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

<b>Standard</b>	Made for high precision and consistently precise work under a microscope.
<b>Biology</b>	Twice as fine as "Standard Tips." Especially produced for high precision laboratory work under the microscope.
<b>Super Fine Tips</b>	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

<b>#2</b>	Straight forceps with wide yet fine tips, referred to as Mouse Laminectomy Forceps because of their popularity in breaking off delicate bone from mouse skulls.
#2AP	Epoxy coated with flat wide blunt tips.
<b>#3</b>	Long straight forceps with coarse tips. Popular in low magnification procedures.
#3C	Shorter version of #3.
<b>#4</b>	Similar to the #5 but with broader shanks and stronger tips.
<b>#5</b>	Most popular style of Dumont straight forceps with fine tips which come in several styles.
#55	Similar to the #5 but with lighter shanks, giving the forceps a lighter spring action.
#5CO	Similar to the #55 but with even finer shanks producing the lightest spring action and longest meeting surface of any Dumont style.
#5L	Medical #5 forceps with slide sleeve for a secure hold and retention.
#5SF	The finest tips ever produced by Dumont.
#5XL	Extra Long #5 forceps.
#5/45	Tips angled at 45°.
#5/45C	Designed to pick up cover slips from multi-well plates.
#5/90	Tips angled at 90°.
<b>#6</b>	Sharply angled, broad tips.
<b>#7</b>	Most popular style of Dumont curved forceps with fine tips which come in several styles.
#7B	Curved serrated tips.
<b>AA</b>	Strong broad tips.
<b>M</b>	Mini forceps.
<b>Medical</b>	Denotes distinctive ribbed handle to maximize grip.
<b>SS</b>	Long and narrow shanks with thin tips.
<b>WA</b>	One piece design with no soldering grooves allows the forceps to be thoroughly and easily cleaned preventing biofilm residue.

PRICES VALID OCT 1, 2020 TO SEPT 30, 2021 · PRICES IN CANADIAN CURRENCY · SEE INSIDE BACK COVER FOR ORDERING INFORMATION

# INDEX

<b>Item No.</b>	<b>Page No.</b>										
		10030-13.....	100	10096-16.....	49	11001-12.....	87	11023-10.....	88	11092-12.....	97
		10031-13.....	100	10097-16.....	49	11001-13.....	87	11023-12.....	88	11093-10.....	77
		10032-13.....	100	10098-06.....	105	11001-14.....	87	11023-14.....	88	11095-09.....	96
00071-14.....	131	10033-13.....	100	10099-12.....	106	11001-16.....	87	11023-15.....	88	11095-13.....	96
00072-14.....	131	10035-00.....	56	10099-15.....	106	11001-18.....	87	11024-18.....	91	11101-09.....	83
00081-00.....	156	10035-05.....	56	10100-30.....	52	11001-20.....	87	11025-18.....	91	11103-09.....	83
00108-11.....	75	10035-10.....	56	10100-45.....	52	11002-12.....	86	11026-15.....	89	11106-09.....	83
00109-11.....	75	10035-12.....	56	10110-01.....	53	11002-13.....	86	11027-12.....	84	11150-10.....	80
00125-11.....	136	10035-15.....	56	10110-03.....	53	11002-14.....	86	11028-15.....	89	11151-10.....	80
00126-11.....	136	10035-20.....	56	10110-05.....	53	11002-16.....	86	11029-14.....	88	11152-10.....	80
00272-13.....	77	10035-25.....	56	10110-07.....	53	11002-18.....	86	11030-12.....	85	11153-10.....	80
00276-13.....	136	10035-30.....	56	10130-05.....	109	11002-20.....	86	11031-15.....	89	11154-10.....	80
00325-00.....	130	10050-00.....	55	10130-10.....	109	11002-25.....	86	11032-12.....	84	11155-10.....	80
00396-01.....	130	10052-11.....	55	10130-20.....	109	11003-12.....	86	11036-20.....	87	11158-10.....	80
00398-02.....	130	10053-09.....	55	10140-01.....	101	11003-13.....	86	11036-90.....	87	11159-10.....	80
00400-03.....	130	10053-13.....	55	10140-02.....	101	11003-14.....	86	11040-08.....	79	11160-10.....	80
00574-11.....	139	10055-12.....	50	10140-03.....	101	11003-16.....	86	11041-08.....	79	11200-00.....	72
00632-11.....	75	10056-12.....	50	10140-04.....	101	11003-18.....	86	11042-08.....	79	11200-10.....	72
00649-11.....	75	10058-15.....	51	10152-30.....	54	11003-20.....	86	11043-08.....	79	11200-12.....	72
10000-10.....	60	10059-13.....	50	10157-13.....	54	11006-12.....	84	11049-10.....	80	11200-14.....	72
10000-11.....	60	10059-15.....	51	10157-15.....	54	11006-15.....	78	11050-10.....	80	11200-33.....	71
10000-15.....	60	10060-00.....	60	10157-18.....	54	11008-13.....	86	11051-10.....	80	11203-23.....	71
10002-00.....	59	10060-13.....	60	10160-13.....	103	11008-15.....	86	11052-10.....	80	11203-25.....	71
10002-50.....	59	10061-12.....	101	10162-12.....	99	11009-13.....	86	11053-10.....	80	11210-10.....	71
10003-12.....	58	10062-12.....	101	10165-11.....	102	11009-15.....	86	11054-10.....	80	11210-20.....	71
10003-13.....	58	10063-15.....	100	10166-11.....	102	11010-17.....	91	11055-10.....	80	11215-01.....	40
10004-13.....	57	10064-14.....	101	10167-11.....	102	11011-17.....	91	11062-10.....	81	11215-02.....	40
10006-12.....	61	10065-15.....	100	10315-12.....	56	11012-18.....	91	11063-07.....	76	11220-21.....	70
10007-12.....	59	10066-15.....	100	10316-14.....	56	11012-21.....	91	11064-07.....	79	11223-20.....	70
10007-16.....	59	10073-14.....	50	10317-14.....	56	11012-25.....	91	11065-07.....	79	11231-20.....	68
10008-13.....	57	10075-16.....	49	10318-14.....	56	11013-18.....	91	11066-07.....	79	11231-30.....	68
10010-00.....	58	10080-05.....	49	10321-08.....	107	11013-21.....	91	11067-07.....	79	11241-30.....	70
10010-10.....	61	10081-10.....	49	10360-13.....	107	11014-18.....	90	11069-08.....	79	11242-40.....	70
10011-00.....	58	10082-15.....	49	10370-13.....	51	11015-18.....	90	11070-08.....	79	11251-10.....	65
10011-10.....	61	10083-20.....	49	10370-17.....	107	11016-17.....	91	11071-10.....	81	11251-20.....	65
10012-00.....	58	10087-12.....	104	10370-18.....	107	11017-17.....	91	11072-11.....	83	11251-21.....	66
10015-00.....	58	10088-15.....	103	10370-19.....	107	11018-12.....	84	11073-10.....	82	11251-23.....	65
10015-10.....	61	10089-11.....	104	11000-12.....	87	11019-12.....	84	11074-02.....	82	11251-30.....	65
10020-00.....	57	10090-13.....	103	11000-13.....	87	11020-12.....	84	11075-00.....	82	11251-33.....	67
10021-00.....	57	10090-17.....	103	11000-14.....	87	11021-12.....	88	11080-02.....	90	11251-35.....	67
10022-00.....	57	10091-12.....	104	11000-16.....	87	11021-14.....	88	11083-07.....	76	11252-00.....	63
10023-00.....	57	10092-12.....	104	11000-18.....	87	11021-15.....	88	11084-07.....	76	11252-20.....	65
10025-45.....	52	10093-13.....	104	11000-20.....	87	11022-12.....	84	11090-09.....	77	11252-21.....	66
10025-50.....	52	10094-13.....	104	11000-25.....	87	11022-14.....	88	11090-10.....	76	11252-23.....	65
10025-70.....	160	10095-12.....	49	11000-30.....	87	11022-15.....	88	11091-15.....	97	11252-30.....	65

11252-40..... 65	11506-12..... 84	12050-10..... 117	14000-13.....29	14018-13.....32	14080-11.....27
11252-50..... 63	11515-02.....41	12050-20..... 117	14000-14.....29	14018-14.....32	14081-09.....26
11253-10..... 66	11602-14..... 86	12051-08..... 116	14000-16.....29	14018-18.....32	14082-09.....26
11253-20..... 64	11602-16..... 90	12051-09..... 116	14000-18.....29	14019-13.....32	14083-08.....15
11253-21..... 64	11608-15..... 86	12051-10..... 116	14000-20.....29	14019-14.....32	14084-08.....15
11253-25..... 64	11616-15..... 85	12051-11..... 116	14001-12.....29	14019-18.....32	14084-09.....15
11253-27..... 67	11617-12..... 85	12060-01..... 110	14001-13.....29	14024-14..... 33	14085-08.....15
11253-29..... 64	11626-11.....67	12060-02..... 110	14001-14.....29	14028-10.....22	14085-09.....15
11254-20..... 63	11627-12..... 85	12061-01..... 110	14001-16.....29	14029-10.....22	14086-09.....27
11255-20..... 65	11650-10..... 80	12061-02..... 110	14001-18.....29	14037-10.....28	14088-10.....18
11258-20.....73	11651-10..... 80	12075-12..... 110	14002-12.....29	14040-10.....19	14090-09.....16
11260-20..... 68	11652-10..... 80	12075-14..... 110	14002-13.....29	14041-10.....19	14090-11.....16
11270-20..... 69	11700-00.....82	12076-12..... 110	14002-14.....29	14054-13..... 30	14091-09.....16
11271-30..... 69	11700-01.....82	12102-12..... 113	14002-16.....29	14058-09.....20	14091-11.....16
11272-30..... 69	11700-02.....82	12500-12..... 112	14003-12.....29	14058-11.....20	14094-11.....16
11272-40..... 69	11700-03.....82	12501-13..... 112	14003-13.....29	14059-09.....20	14095-11.....16
11272-50..... 69	11700-04.....82	12502-12..... 113	14003-14.....29	14059-11.....20	14101-14.....31
11273-20..... 64	11900-14.....78	12502-14..... 113	14003-16.....29	14060-09.....17	14105-12.....25
11273-22..... 64	12001-13..... 112	12503-15..... 114	14003-18.....29	14060-10.....17	14106-09.....28
11274-20..... 69	12002-12..... 113	12504-15..... 114	14003-20.....29	14060-11.....17	14108-09.....28
11280-11.....139	12002-14..... 113	12505-15..... 115	14004-12.....29	14061-09.....17	14110-15.....34
11281-11.....139	12003-15..... 114	12510-14..... 111	14004-13.....29	14061-10.....17	14110-17.....34
11282-11.....139	12004-16..... 114	12512-12..... 113	14004-14.....29	14061-11.....17	14111-15.....34
11293-00..... 68	12004-18..... 114	12565-14..... 111	14004-16.....29	14062-09.....17	14111-17.....34
11294-00.....70	12005-15..... 115	13002-10..... 96	14004-18.....29	14062-10.....17	14116-14.....33
11295-00..... 65	12010-14..... 111	13003-10..... 96	14005-12.....29	14063-09.....17	14116-18.....33
11295-10..... 65	12018-12..... 119	13004-14..... 94	14005-13.....29	14063-11.....17	14117-14.....33
11295-20..... 63	12020-00.....121	13005-14..... 94	14005-14.....29	14064-11.....24	14117-18.....33
11295-51..... 65	12020-09.....121	13006-12.....92	14005-16.....29	14065-11.....24	14130-17.....30
11297-00..... 69	12022-09.....121	13007-12.....92	14007-14..... 30	14066-11.....24	14131-14.....31
11297-10..... 69	12023-00.....121	13008-12.....93	14008-14.....29	14067-11.....24	14160-10.....17
11370-31..... 74	12028-12..... 119	13009-12.....93	14010-15..... 34	14068-12.....19	14161-10.....17
11370-32..... 74	12029-12..... 119	13010-12.....93	14010-17..... 34	14069-12.....19	14171-10.....28
11370-40..... 74	12030-01.....120	13011-12.....93	14011-15..... 34	14070-12.....19	14173-12.....25
11370-42..... 74	12030-04.....120	13012-12.....93	14011-17..... 34	14071-12.....19	14184-09.....15
11373-12..... 74	12030-20.....120	13013-14.....95	14012-15.....35	14072-10.....27	14185-09.....15
11373-22..... 74	12030-22.....120	13014-14.....95	14012-17.....35	14074-09.....23	14200-21.....35
11399-80..... 74	12030-23.....120	13015-14.....95	14013-15.....35	14074-11.....23	14370-22.....18
11399-87..... 74	12035-00.....120	13018-14.....94	14013-17.....35	14075-09.....23	14370-23.....18
11412-11.....72	12040-01.....119	13019-14.....94	14014-17.....35	14075-11.....23	14501-14.....30
11413-11.....72	12040-02.....119	13020-12.....92	14015-17.....35	14076-09.....26	14502-14.....30
11445-12.....73	12040-03.....119	13021-12.....92	14016-14..... 33	14077-09.....24	14504-14.....30
11480-11.....73	12050-01.....117	13108-12.....93	14016-18..... 33	14077-10.....24	14505-14.....30
11485-11.....73	12050-02.....117	13109-12.....93	14017-14..... 33	14078-10.....22	14508-15.....32
11487-11.....73	12050-03.....117	14000-12.....29	14017-18..... 33	14079-10.....22	14509-15.....32

PRICES VALID OCT 1, 2020 TO SEPT 30, 2021 · PRICES IN CANADIAN CURRENCY · SEE INSIDE BACK COVER FOR ORDERING INFORMATION



# INDEX

14510-15 ..... 34	15010-09 ..... 11	15750-11 ..... 7	17000-04 ..... 123	18010-02 ..... 158	18052-12 ..... 135
14510-17 ..... 34	15010-10 ..... 11	15751-11 ..... 7	17001-07 ..... 126	18020-00 ..... 117	18053-28 ..... 133
14511-15 ..... 34	15011-12 ..... 10	16000-14 ..... 38	17002-02 ..... 123	18020-01 ..... 117	18054-28 ..... 133
14511-17 ..... 34	15012-12 ..... 10	16001-15 ..... 38	17003-03 ..... 123	18020-02 ..... 117	18055-01 ..... 132
14512-15 ..... 34	15013-12 ..... 10	16002-18 ..... 37	17004-03 ..... 123	18020-03 ..... 117	18055-02 ..... 132
14512-17 ..... 34	15015-11 ..... 11	16004-16 ..... 38	17004-05 ..... 124	18020-20 ..... 117	18055-03 ..... 132
14518-14 ..... 32	15017-10 ..... 10	16005-16 ..... 38	17005-03 ..... 123	18020-30 ..... 117	18055-04 ..... 132
14518-18 ..... 32	15018-10 ..... 4	16015-17 ..... 36	17005-04 ..... 124	18020-40 ..... 117	18055-05 ..... 132
14519-14 ..... 32	15019-10 ..... 4	16016-17 ..... 36	17006-05 ..... 126	18020-50 ..... 117	18055-06 ..... 132
14519-18 ..... 32	15020-15 ..... 7	16020-14 ..... 36	17007-08 ..... 126	18020-60 ..... 117	18056-14 ..... 132
14531-09 ..... 31	15021-15 ..... 7	16021-14 ..... 36	17008-07 ..... 125	18020-70 ..... 117	18057-14 ..... 132
14558-09 ..... 21	15023-10 ..... 9	16022-15 ..... 37	17009-07 ..... 125	18025-10 ..... 77	18060-20 ..... 141
14558-11 ..... 21	15024-10 ..... 9	16023-15 ..... 37	17009-08 ..... 125	18026-10 ..... 78	18061-10 ..... 141
14559-09 ..... 21	15025-10 ..... 9	16025-14 ..... 47	17010-07 ..... 125	18030-30 ..... 117	18061-15 ..... 141
14559-11 ..... 21	15027-18 ..... 12	16030-12 ..... 44	17011-10 ..... 127	18030-40 ..... 117	18061-18 ..... 141
14568-09 ..... 20	15028-18 ..... 12	16030-16 ..... 44	17012-11 ..... 128	18030-50 ..... 117	18061-20 ..... 141
14568-12 ..... 20	15030-14 ..... 13	16044-10 ..... 44	17012-13 ..... 128	18030-60 ..... 117	18061-22 ..... 141
14569-09 ..... 20	15031-14 ..... 13	16050-15 ..... 45	17017-10 ..... 127	18030-70 ..... 117	18061-24 ..... 141
14569-12 ..... 20	15032-08 ..... 14	16060-11 ..... 41	17018-11 ..... 128	18030-80 ..... 117	18061-38 ..... 141
14574-09 ..... 23	15032-13 ..... 14	16101-10 ..... 42	17020-17 ..... 122	18035-01 ..... 159	18061-50 ..... 141
14574-11 ..... 23	15033-09 ..... 9	16102-11 ..... 42	17021-13 ..... 122	18035-02 ..... 159	18061-75 ..... 141
14575-09 ..... 23	15036-14 ..... 13	16103-11 ..... 41	17022-13 ..... 122	18035-03 ..... 159	18062-12 ..... 135
14575-11 ..... 23	15037-14 ..... 13	16104-14 ..... 46	17023-13 ..... 122	18035-05 ..... 159	18062-13 ..... 135
14958-09 ..... 21	15040-11 ..... 9	16104-19 ..... 46	17370-53 ..... 124	18035-35 ..... 159	18063-13 ..... 135
14958-11 ..... 21	15042-11 ..... 9	16105-16 ..... 46	18000-00 ..... 158	18035-50 ..... 159	18064-20 ..... 141
14959-09 ..... 21	15070-08 ..... 5	16106-14 ..... 46	18000-01 ..... 158	18035-80 ..... 159	18065-20 ..... 141
14959-11 ..... 21	15071-08 ..... 5	16107-14 ..... 39	18000-02 ..... 158	18036-19 ..... 159	18067-11 ..... 99
15000-00 ..... 4	15110-08 ..... 12	16109-14 ..... 39	18000-03 ..... 158	18036-22 ..... 159	18080-01 ..... 134
15000-01 ..... 6	15111-08 ..... 12	16120-14 ..... 36	18000-04 ..... 158	18036-24 ..... 159	18080-02 ..... 134
15000-02 ..... 6	15123-12 ..... 6	16121-14 ..... 36	18000-10 ..... 138	18038-45 ..... 133	18080-03 ..... 134
15000-03 ..... 3	15124-12 ..... 6	16130-15 ..... 45	18000-15 ..... 144	18039-45 ..... 133	18090-00 ..... 156
15000-04 ..... 3	15300-00 ..... 14	16140-11 ..... 43	18000-18 ..... 157	18040-00 ..... 134	18105-01 ..... 159
15000-08 ..... 3	15370-50 ..... 8	16141-11 ..... 43	18000-20 ..... 157	18040-11 ..... 130	18105-03 ..... 159
15000-10 ..... 4	15370-52 ..... 8	16142-11 ..... 43	18000-30 ..... 150	18040-14 ..... 131	18106-01 ..... 159
15000-11 ..... 6	15371-92 ..... 12	16143-12 ..... 43	18000-35 ..... 163	18040-22 ..... 130	18131-12 ..... 136
15000-12 ..... 6	15396-00 ..... 5	16144-13 ..... 43	18000-45 ..... 149	18040-33 ..... 130	18132-12 ..... 136
15001-08 ..... 3	15396-01 ..... 5	16150-24 ..... 47	18000-46 ..... 149	18050-28 ..... 133	18144-30 ..... 133
15002-08 ..... 3	15400-12 ..... 7	16152-11 ..... 44	18000-50 ..... 149	18050-35 ..... 133	18155-13 ..... 81
15003-08 ..... 4	15401-12 ..... 7	16152-12 ..... 44	18000-51 ..... 149	18050-50 ..... 133	18200-01 ..... 129
15004-08 ..... 4	15514-12 ..... 10	16152-15 ..... 44	18004-18 ..... 157	18051-28 ..... 133	18200-02 ..... 129
15005-08 ..... 4	15610-08 ..... 6	16220-14 ..... 36	18004-23 ..... 157	18051-35 ..... 133	18200-03 ..... 129
15006-09 ..... 8	15615-08 ..... 6	16221-14 ..... 36	18004-27 ..... 157	18051-50 ..... 133	18200-04 ..... 129
15007-08 ..... 5	15617-08 ..... 6	17000-01 ..... 123	18004-50 ..... 157	18052-01 ..... 133	18200-05 ..... 129
15008-08 ..... 4	15650-11 ..... 11	17000-02 ..... 123	18010-00 ..... 158	18052-02 ..... 133	18200-06 ..... 129
15009-08 ..... 8	15651-11 ..... 11	17000-03 ..... 123	18010-01 ..... 158	18052-03 ..... 133	18200-07 ..... 129

18200-08.....129	20830-01.....155	26002-10.....109	29055-00.....144	91308-12.....178
18200-09.....129	20830-02.....155	26002-15.....109	29055-12.....144	91309-12.....178
18200-10.....129	20830-03.....155	26002-20.....109	29060-00.....147	91400-10.....173
18200-11.....129	20830-04.....155	26007-01.....109	29060-01.....147	91400-12.....173
18200-12.....129	20830-05.....155	26007-02.....109	29060-02.....147	91400-14.....173
18200-20.....129	20830-06.....155	26007-03.....109	29060-03.....147	91401-10.....173
18200-50.....129	20840-01.....153	26007-04.....109	29060-04.....147	91401-12.....173
18320-11.....133	20840-02.....153	26007-05.....109	29060-05.....147	91401-14.....173
18374-43.....133	20840-03.....153	26016-12.....108	29060-06.....147	91402-10.....173
18374-44.....133	20842-03.....153	26018-17.....108	29066-00.....147	91402-12.....173
18403-11.....139	20850-00.....154	26029-10.....83	29066-01.....147	91402-14.....173
18406-11.....139	20850-10.....154	26030-10.....83	29066-02.....147	91413-14.....174
18406-13.....139	20890-51.....154	26100-00...48,108	29066-03.....147	91460-11.....173
18555-01.....132	20890-72.....154	27000-01.....165	29066-04.....147	91461-11.....173
18555-02.....132	23005-10.....118	28000-07.....148	29071-01.....146	91500-09.....173
18555-03.....132	24201-00.....143	28000-10.....148	29071-02.....146	91501-09.....173
18555-04.....132	24201-01.....143	28000-12.....148	29071-03.....146	91601-11.....174
18601-15.....137	24212-01.....142	28001-00.....150	29071-04.....146	91604-09.....174
18602-15.....137	24212-02.....142	28001-02.....150	29071-05.....146	91606-07.....179
18603-14.....137	24214-02.....142	28015-15.....152	29071-06.....146	91706-05.....179
19003-00.....165	24215-02.....142	28015-25.....171	29071-07.....146	91815-11.....175
19003-01.....165	24220-00.....143	28020-20.....152	29071-08.....146	
19007-05.....157	24220-10.....143	28020-28.....171	29080-00.....146	
19007-07.....157	24220-50.....143	28030-02.....166	30051-10.....160	
19007-09.....157	24220-90.....143	28030-03.....166	30076-14.....160	
19007-14.....157	26000-25.....109	28030-04.....166	30085-15.....162	
19007-21.....157	26000-30.....109	28030-10.....166	30085-30.....162	
19007-29.....157	26000-35.....109	28030-20.....169	30087-00.....163	
19008-07.....157	26000-40.....109	28030-25.....169	30087-20.....163	
19008-09.....157	26000-45.....109	28040-30.....168	37000-00.....161	
19008-14.....157	26000-50.....109	28050-30.....168	37500-00.....161	
19009-00.....48	26000-55.....109	28050-35.....168	37500-05.....161	
19009-05.....157	26000-60.....109	28080-10.....167	91003-12.....179	
19009-07.....157	26000-65.....109	28080-90.....168	91100-12.....175	
19009-09.....157	26000-70.....109	29000-00.....145	91100-16.....175	
19010-00.....48	26001-25.....109	29000-10..145,170	91106-12.....175	
19010-10.....48	26001-30.....109	29008-01.....144	91110-10.....177	
20311-21.....154	26001-35.....109	29008-12.....144	91113-10.....177	
20325-00.....151	26001-40.....109	29008-22.....145	91115-10.....177	
20325-10.....151	26001-45.....109	29015-50..145,170	91117-10.....177	
20350-00.....151	26001-50.....109	29025-01.....164	91121-12.....175	
20810-01.....152	26001-55.....109	29025-02.....164	91127-12.....175	
20810-02.....152	26001-60.....109	29026-10.....164	91150-20.....176	
20820-00.....152	26001-65.....109	29027-00.....162	91197-00.....176	
20830-00.....155	26001-70.....109	29051-45.....144	91201-13.....178	

PRICES VALID OCT 1, 2020 TO SEPT 30, 2021 · PRICES IN CANADIAN CURRENCY · SEE INSIDE BACK COVER FOR ORDERING INFORMATION

## Alphabetical Index

## A

Absorption Spears and Triangles .....	159
<i>Adson</i> forceps.....	84-85
<i>Adson</i> .....	84
<i>Adson-Brown</i> .....	85
<i>Adson DeBaKey</i> .....	85
<i>Adson-Graefe</i> .....	85
Micro <i>Adson</i> .....	84
Micro <i>Adson</i> Fenestrated.....	84
<i>Agricola</i> retractor .....	124
<i>Allis</i> hemostatic forceps .....	97
<i>Alm</i> retractors.....	125
Applicators	
Micro serrefine .....	130-132
Suture clips .....	119-121
Applying forceps, clamp.....	131-132
Arc blade.....	56
Arteriotomy knives .....	50-53
Artery scissors .....	27
<i>Austin</i> Chisel .....	49
AutoClip® System.....	121

## B

<i>Baby-Beyer</i> .....	37
<i>Baby-Mixer</i> hemostatic forceps .....	95
<i>Backhaus</i> towel forceps.....	96
Balanced Instruments .....	137
Ball Tipped	
Scissors .....	27
Spring Scissors .....	9
<i>Beebee</i> bone scissors .....	44
<i>Beyer</i> rongeurs.....	37
<i>Biemer</i> spring scissors .....	14
<i>Bishop-Harman</i> forceps.....	79
<i>Bonn-Strabismus</i> scissors .....	15
Blade	
Breakers .....	55
Cartridges.....	61
Holders .....	52-61
Blades	
Breakable .....	55
Ceramic .....	52
Scalpel.....	52-61
<i>Blair</i> retractor .....	122
<i>Boehler</i> bone cutter.....	45

## Bone

Cutters.....	40-47
Delicate scraper.....	49
Forceps .....	41
Nipper.....	42-43
Pliers .....	47
Rongeurs .....	36-39
Scissors .....	44
Scissors, Student.....	174
Scraper .....	49
Screw forceps .....	48
Screws, self-tapping.....	48
Shears .....	47
Wax .....	48

## Bone cutters

<i>Beebee</i> .....	44
Bone Trimmers .....	40
<i>Boehler</i> .....	45
Cartilage Cutter .....	40
<i>Cleveland</i> .....	46
Dumont carbon steel .....	40
Dumont epoxy coated.....	40
<i>Liston</i> .....	46
<i>Littauer</i> .....	44
Malleus Nipper.....	43
Micro .....	41
Offset Bone Nipper.....	42
Skull Flap.....	45
Spring Scissors .....	43
Tungsten Carbide.....	41, 44

## Bone Nipper .....

## Bonn

Artery .....	27
Forceps .....	76
Micro probes.....	100
Scissors .....	15, 27
Strabismus .....	15

Book and DVD-*Suturing Principles*.....

118	
<i>Bowman</i> retractor .....	126
Bulldog clamps .....	133
Burrs.....	157

## C

## Calipers

<i>Castroviejo</i> .....	163
Digital electronic.....	163
Plastic Vernier .....	163
Cane blade .....	56

## Cannulation aids.....

135-139	
Cartilage Cutter.....	40
Cases, instrument .....	152-155

*Castroviejo*

Caliper .....	163
Needle holders.....	110-111
Spring scissors.....	10
Cauterizers, vessel .....	158
CeramaCut, scissors.....	21
Ceramic	
About.....	183
Blades.....	52
Cutter.....	160
Dumont forceps.....	63, 69
Scissors .....	21
Spring scissors.....	7
Titanium .....	10

## Chisels

<i>Austin</i> .....	49
Dissecting.....	49
Circle forceps.....	83
Circle knife.....	51

## Clamps

Applying forceps.....	131-132
Bulldog Artery Spring Clamps.....	133
Bulldog Type Serrefines.....	133
<i>Dietrich</i> Bulldog Clamps.....	133
Double Micro Clamps.....	130
Mini Serrefines .....	133
Moria .....	133
S&T .....	130
<i>Schwartz</i> Micro Serrefines.....	133
Silver Neuro Clips .....	134
Titanium .....	132
Vascular.....	130, 132-133
Vascular Occluders .....	134

*Cleveland* bone cutters .....

46	
Clip-On LED Light.....	169
Clipper style scissors .....	14
<i>Cohan-Vannas</i> spring scissors .....	5
<i>Colibri</i> retractor .....	123
<i>Colibri</i> retractor (mini) .....	123
Combination Probe and Spatula .....	103
Combination Spoon and Spatula .....	103
Contacts, Gold wire.....	165
Corers, sample.....	159
Cover glass forceps.....	82
Cover slip forceps.....	67
<i>Crile</i> hemostatic forceps .....	94

*Crile-Wood* needle holders..... 114  
 Currettes, micro.....49

**D**

*DeBakey* forceps.....85  
 Decapitation scissors.....35  
 Demagnetizer.....144  
 Diamond knives.....52  
*Dietrich* bulldog clamps.....133  
 Digital Electronic Caliper.....163  
 Dilator, vessel.....136-137  
 Disposable safety scalpels.....60-61  
 Disposable scalpel box.....59  
 Dissecting Chisel.....49  
 Dissecting knives.....50-51  
 Double-Ended Micro Spatula.....104  
 Double Micro Clamps.....130  
 Double pronged tissue pick.....99  
 Double tip protectors.....147  
*Dowell* spring scissors.....9  
 Dressing forceps.....80, 86-87  
 Dumont  
     Bone Cutter.....40  
     Ceramic.....63, 69  
     Coverslip.....67  
     Epoxy.....70-71  
     Forceps.....40, 63-73,139  
     Forceps repair kit.....145  
     Forceps sharpening stones.....145  
     Laminectomy.....70  
     Mini Forceps.....72  
     Slide Lock.....67  
     Super Fine Tip.....63  
     Teflon.....67  
     Titanium.....65, 69  
     Tweezers.....63-72,139  
 Dura cutting knife.....50  
 Dura hook.....99

**E**

Ear  
     Punches.....142  
     Tags.....143  
     Tattoo system.....143  
 Electronic timers.....165  
 Etched micro needles.....109  
 Eschenbach magnifiers.....168-169, 171

Extra Fine *Bonn*.....15  
 Explorers.....101

**F**

Feeding needles.....141  
 File set.....160  
 Filters, sterilization containers.....153  
 Fine  
     *Bonn*.....15  
     Forceps.....73-79  
     Iris Scissors.....16  
     Scissors.....15-28  
     Spring scissors.....3-14  
 Fine Hemostat.....92  
 Fixation forceps, *Pierson*.....81  
*Fomon* retractor.....122  
 Forceps  
     *Adson*.....84-85  
     *Adson-Brown*.....85  
     *Adson DeBakey*.....85  
     *Adson-Graefe*.....85  
     Applying and removing.....119  
     *Bishop-Harman*.....79  
     Bone.....41  
     *Bonn*.....76  
     Cannulation.....139  
     Ceramic.....63, 69  
     Circle.....83  
     Cover glass.....82  
     Cover slip.....67  
     Cross action.....82  
     Dressing.....80, 86-87  
     Dumont.....63-72,139  
     Epoxy coated.....70-71  
     Fine.....73-79  
     Fixation.....81  
     *Gerald*.....90  
     *Gillies*.....89  
     *Graefe*.....80  
     Grasping.....78  
     Hemostatic.....92-97  
     Insect handling.....83  
     Laminectomy.....70  
     London.....90  
     Micro.....63-76  
     Mirror Finish.....65, 72, 77  
     Moria.....74  
     Mouse laminectomy.....70

Mouse handling.....87  
 Narrow Pattern.....86  
 Octagon.....79  
 Organ holding.....89  
*Pierson* fixation.....81  
 Pin & bone screw holding.....48, 108  
 Plastic.....82  
*Potts-Smith*.....91  
 Repair kit.....145  
 Ring.....83  
*Russian*.....89  
 S&T.....75, 77, 139  
 Self-Closing.....73  
*Semken*.....86  
 Standard Forceps.....81-91  
 Standard Pattern.....87  
 Student.....175-177  
 SuperGrip.....75  
 Suture tying.....77-78  
*Taylor*.....91  
 Titanium.....65, 69, 80, 86, 90  
 Tungsten carbide.....84  
 Vetro Grasping.....78  
 Vial.....78  
*Friedman* rongeur.....38  
*Friedman-Pearson* rongeur.....36

**G**

Galilean Loupes.....168  
 Gavage feeding needles.....141  
*Gelpi* retractor.....127  
 GenoPunch.....142  
*Gerald* forceps.....90  
*Gillies* forceps.....89  
 Gold wire contacts.....165  
*Goldstein* retractor.....123  
*Graefe* forceps.....80  
*Graefe* knife.....50  
 Grasping forceps.....78  
 Grease, silicone.....144  
 Gross anatomy  
     Knives.....54  
     Probe.....103  
     Scalpel.....60  
     Scissors.....29-35  
*Guthrie* retractor.....122

**H**

*Halsey* needle holders ..... 112  
*Halsted-Mosquito* hemostatic forceps ..... 93  
 Handles, scalpel ..... 57-61  
 Hardened Fine Iris Scissors ..... 16  
*Hartman* hemostatic forceps ..... 96  
 Headband magnifier ..... 166  
 Headband, spectacles ..... 168  
*Heiss* retractor ..... 127  
 Hemostatic forceps  
     *Allis* Forceps ..... 97  
     *Baby-Mixer* ..... 95  
     *Backhaus* Towel Forceps ..... 96  
     *Crile* ..... 94  
     Fine ..... 92  
     *Halsted-Mosquito* ..... 93  
     *Hartman* ..... 96  
     *Kelly* ..... 94  
     Left-handed ..... 93  
     *Micro-Mosquito* ..... 93  
     *Providence-Hospital* ..... 95  
     Smooth ..... 92  
     Student ..... 178  
     Ultra Fine ..... 92  
 Hippocampal dissecting tools ..... 106

Holders

Blade ..... 52-61  
 Ceramic blade ..... 52  
 Micro needle ..... 110  
 Needle ..... 110-115, 178  
 Pin ..... 108  
 Scalpel blade ..... 52-61

Hooks

Micro ..... 101-102  
 Spinal cord ..... 99  
 Y-Hook ..... 102  
 V-Hook ..... 135

Hot bead sterilizers ..... 149

**I**

Identification, animal

Tattoo system ..... 143  
 Ear punches ..... 142  
 Ear tags ..... 143

Insect

Handling forceps ..... 83  
 Pins ..... 109

Insert

Pin holders ..... 108, 179  
 Pins ..... 109

Instrument

Beaker ..... 156  
 Cases ..... 152-155  
 Holding spring ..... 156  
 Oil and Oil Pen ..... 144  
 Sharpening Stones ..... 144-145  
 Tape, identification ..... 146  
 Tip protectors ..... 147  
 Iridectomy scissors ..... 3-14  
 Iris Spatulae ..... 104

**K**

*Kaye* scissors ..... 28  
*Kelly* hemostatic forceps ..... 94  
 Knives  
     Circle ..... 51  
     Diamond ..... 52  
     Dura cutting ..... 50  
     Gross anatomy (blade) ..... 60  
     Micro ..... 50-52  
     Sichel ..... 50  
     Stone age ..... 53  
     *Von Graefe* ..... 50

**L**

*LaGrange* scissors ..... 25  
 Laminectomy forceps, mouse ..... 70  
 Large Loops ..... 19, 28, 31  
 Left-handed  
     Fine scissors ..... 17  
     Hemostatic forceps ..... 93  
     Ligation aid ..... 135  
     Needle holders ..... 113-114  
     Surgical scissors ..... 29  
     Universal scissors ..... 161  
*Lempert* rongeur ..... 38  
 Lens paper ..... 145, 170  
*Lexer-Baby* scissors ..... 22  
 Ligation aid ..... 135  
 Ligation scissors ..... 26  
*Lister* scissors ..... 31  
*Liston* gross anatomy cutter ..... 46  
*Littauer* bone cutter ..... 44  
 Live Insect Handling Forceps ..... 83  
 Lubricant, silicone ..... 144  
*Luer* rongeur ..... 38

**M**

Magnetic sterilization mat ..... 151  
 Magnifiers  
     Eschenbach Clip-On LED Light ..... 169  
     Galilean Loupes ..... 168  
     Headband ..... 168  
     Interchangeable Headset with LED ..... 167  
     Magnifying Loupe with Micrometer  
         and LED ..... 164  
     Spectacles ..... 166-169  
     Stands ..... 171  
     Scribolux ..... 171  
     Vario Flex ..... 171  
 Malleus Nipper ..... 43  
 Mandrel ..... 157  
 Manipler®, skin stapler ..... 120  
 Manual and DVD, *Suturing Principles  
 and Techniques in Laboratory Animals* ..... 118  
 Marker, skin ..... 150  
 Mat, silicone ..... 151  
*Mathieu* needle holder ..... 111  
 Max Detail spectacles ..... 169  
*Mayo* scissors ..... 34  
*Mayo-Hegar* needle holder ..... 114  
*Mayo-Noble* scissors ..... 35  
*Mayo-Stille* scissors ..... 35  
*Metzenbaum* scissors  
     *Baby* scissors ..... 32  
     Scissors ..... 33  
     ToughCut *Metzenbaum* ..... 33  
     Tungsten Carbide *Metzenbaum Fino* ..... 32  
*Michel* suture clips ..... 119  
 Micro-  
     Bone cutter ..... 41  
     Cannulation System ..... 138  
     Curettes ..... 49  
     Dissecting knives ..... 50-52  
     Dissection scissors ..... 3-14  
     Forceps ..... 63-76  
     Hooks ..... 101-102  
     Needles, etched ..... 109  
     Needle holders ..... 110  
     Needles and sutures ..... 116-117  
     Points ..... 100, 102  
     Probes ..... 100-102  
     Rongeurs ..... 36  
     Serrefine applicators ..... 131-132  
     Serrefines ..... 130, 132  
     Spatulae ..... 102-104  
     Micrometers ..... 164

Micro-Mosquito Hemostat ..... 93  
*Mini-Biemer* spring scissors ..... 14  
*Mini-Colibri* retractor..... 123  
*Mini-Lister*..... 31  
*Mini-Vannas* spring scissors ..... 5  
 Minutien pins..... 109  
 Mirror finish  
     Cutting spoon..... 107  
     Forceps ..... 65, 72  
     Micro spatula ..... 104  
     Suture tying forceps ..... 77  
 Moria  
     Forceps ..... 74  
     Instrument case ..... 154  
     Retractors..... 124  
     Scissors ..... 18  
     Spoons..... 107  
     Spring scissors..... 12  
     Vascular clamps ..... 133  
 Mosquito hemostatic forceps..... 93  
 Mouse  
     Feeding needles ..... 141  
     Laminectomy forceps..... 70  
     Handling forceps ..... 87

**N**

Narrow Pattern Forceps..... 86  
 Needle Holders  
     *Castroviejo*..... 110  
     *Castroviejo* with Tungsten Carbide Jaws . 111  
     *Crile-Wood*..... 114  
     *Halsey*..... 112  
     *Halsey* with Tungsten Carbide Jaws..... 112  
     *Mathieu* ..... 111  
     *Mayo-Hegar* ..... 114  
     Needle Holder with Suture Cutter ..... 110  
     *Olsen-Hegar* with Suture Cutter ..... 113  
     Round Handled..... 110  
     Ryder Mini-Select Needle Holder ..... 115  
     Slim Elongated Needle Holder ..... 115  
 Needles  
     Etched, micro..... 109  
     Feeding ..... 141  
 Micro needles and sutures ..... 116  
 Neuro punches..... 159  
 Neuro clips, silver ..... 134  
*Noyes* spring scissors..... 10  
 Nylon suture thread ..... 117

**O**

Obsidian scalpels..... 53  
 Occluders, vascular ..... 134  
 Octagon Forceps..... 79  
 Offset Bone Nipper ..... 42  
 Oil, instrument ..... 144  
 O-rings for forceps ..... 72  
*Olsen-Hegar* needle holders ..... 113  
 Optical cleaning kit..... 145, 170  
 Organ holding forceps ..... 83

**P**

*Pascheff-Wolff* spring scissors..... 12  
*Pearson* rongeur ..... 36  
 Pen  
     Oil..... 144  
     Skin Marker ..... 150  
 Perforated Spoons..... 107  
 Pick  
     Double Pronged Pick ..... 99  
*Pierse* fixation forceps..... 81  
 Pin holders ..... 108  
 Pins  
     Etched Tungsten Micro Needles ..... 109  
     Insect..... 109  
     Insert ..... 109  
     Minutien ..... 109  
 Plastic cases ..... 152-155  
 Plastic forceps ..... 82  
 Plastic sterilization container ..... 152-153  
 Plastic Vernier Caliper ..... 163  
*Potts-Smith* forceps ..... 91  
 Pouches, sterilization ..... 148  
 Probes  
     Bonn Micro Probes..... 100  
     Combination Probe and Spatula ..... 103  
     Gross Anatomy Probe ..... 103  
     Micro Hooks ..... 101-102  
     Micro Points ..... 100, 102  
     Probes and Explorers..... 101  
     Vessel Dilating Probe..... 103  
*Providence-Hospital* hemostatic forceps..... 95  
 Punches  
     Ear..... 142  
     Neuro..... 159

**R**

Repair kit, forceps ..... 145

Retractors  
     Agricola ..... 124  
     Alm Retractors ..... 125  
     Blade..... 123-125  
     *Blair*..... 122  
     *Bowman*..... 126  
     *Colibri*..... 123  
     Fine Adjustable Wire Retractor ..... 124  
     *Fomon* ..... 122  
     *Heiss*..... 127  
     *Gelpi* ..... 127  
     *Goldstein* ..... 123  
     *Guthrie* ..... 122  
     Large..... 124-129  
     *Mini-Goldstein*..... 123  
     *Mini-Colibri*..... 123  
     Moria ..... 124  
     Slide..... 123  
     Small..... 123  
     Speculum..... 124  
     Spring-Loaded..... 126  
     Student..... 179  
     Systems ..... 129  
     *Weitlaner-Locktite* ..... 128  
     Wire..... 124  
     *Wullstein* ..... 128  
 Ring forceps..... 83  
 Rongeurs  
     *Baby-Beyer* ..... 37  
     *Beyer*..... 37  
     Bone..... 36-38  
     *Friedman*..... 38  
     *Friedman-Pearson*..... 36  
     *Lempert*..... 38  
     *Luer* ..... 38  
     Micro ..... 36  
     *Pearson*..... 36  
 Round Handled  
     Needle holder..... 110  
     Spring scissors ..... 6  
     Suture tying forceps ..... 78  
 Rulers  
     Label Tape ..... 162  
     Steel ..... 162  
*Russian* forceps ..... 89

**S**

S&T  
     Cannulation forceps..... 139

# INDEX

Forceps.....	75, 77, 131, 136, 139	<i>Strabismus</i> .....	23	Perforated Spoon.....	108
Instrument beaker.....	156	Student.....	173-174	Spring scissors	
Micro needles and suture.....	116	Student Lister.....	174	Angled.....	3-5, 8-9, 11-13
SuperGrip forceps.....	75	Surgical.....	29-35	Ball Tipped.....	8
Suture tying forceps.....	77	Titanium.....	5	<i>Biemer</i> .....	14
Vascular clamps.....	130	ToughCut.....	6, 15, 20, 25, 30, 33-34	Bone Cutter.....	44
Vessel dilator.....	136	ToughCut with tungsten carbide.....	21	<i>Bonn</i> .....	15
Safety scalpel		Tungsten carbide.....	9, 20, 21, 23, 30, 32, 34	<i>Castroviejo</i> .....	10
Blade cartridges.....	61	Universal.....	160	Ceramic coated.....	7
Disposable.....	60	Utility.....	161	Clipper Scissors II.....	14
Handle.....	61	Vitrectomy.....	13	<i>Cohan-Vannas</i> .....	5
Sample corers.....	159	<i>Walton</i> .....	24	<i>Dowell</i> .....	9
Saw, Circular.....	157	Screwdrivers.....	160	Extra fine.....	3-5, 12-13
Scalpel		Screws, self-tapping bone.....	48	Iridectomy.....	3-14
Blade handles.....	52-61	Secure scalpel handle.....	58	<i>Mini-Vannas</i> .....	3
Blade removers.....	59	Self closing forceps.....	73	Moria.....	5, 7, 12, 18
Blades.....	52-61	Self Holding Pin and Bone Screw Forceps ..	48, 106	<i>Noyes</i> .....	9
Ceramic blades.....	52	Self-Sealing Sterilization Pouches.....	148	<i>Pascheff-Wolff</i> .....	12
Disposal Box.....	59	<i>Semken</i> forceps.....	86	Round Handled.....	6
Disposal Safety.....	60	Serrefines.....	132, 133	Serrated.....	4, 6
Gross anatomy.....	60	Sharpening stones.....	144-145	Student <i>Vannas</i> .....	173
Safety Scalpels.....	60-61	<i>Shea</i> scissors.....	25	Superior Line Spring Scissors.....	3
Stone age.....	53	Shears, bone.....	47	Superior Line Vannas-Tubingen	
<i>Schwartz</i> micro serrefine.....	133	<i>Sichel</i> knife.....	50	Spring Scissors.....	4
Scissors		Silicone lubricant.....	144	Titanium <i>Vannas</i> .....	5
Bone.....	44	Silicone mats.....	151	ToughCut.....	6
<i>Bonn</i> .....	15, 27	Silicone tips, forceps.....	87	Trident II.....	11
CeramaCut.....	21	Silk sutures.....	117	<i>Vannas</i> .....	3-7, 173
Clipper.....	14	Skin marker.....	150	<i>Vannas-Miniature</i> .....	5
Decapitation.....	35	Skin staplers.....	120-121	<i>Vannas-Tubingen</i> .....	4
Dissector.....	26	Skull flap cutter.....	45	<i>Vannas-Wolff</i> .....	7
<i>Dowell</i> .....	9	Slide retractors.....	123	Vessels.....	14
Fine.....	15-28	Spatulae		Vitrectomy.....	13
<i>Kaye</i> .....	28	Combination Spoon and Spatula.....	103	<i>Wescott</i> .....	10
<i>LaGrange</i> .....	25	Combination Probe and Spatula.....	103	Spring, instrument holding.....	156
Large loops.....	19, 28, 31	Double-Ended Micro Spatula.....	104	Stage micrometers.....	164
Left-handed.....	17, 29, 161	Hippocampal Dissecting Tool.....	105	Standard Pattern Forceps.....	87
<i>Lexer-Baby</i> .....	22	Iris Spatulae.....	104	Standard Pattern Scissors	
Ligature.....	26	Micro Spatula.....	102, 104	Large Loops.....	31
<i>Lister</i> .....	31	Micro Spatula Kit.....	105	Scissors.....	29-31
<i>Mayo</i> .....	34	Mini Hippocampal Dissecting Tool.....	105	Serrations.....	31
<i>Mayo-Noble</i> .....	35	Mirror Finish Micro Spatula.....	104	ToughCut.....	30
<i>Mayo-Stille</i> .....	35	Spears, absorption.....	159	Tungsten Carbide.....	30
<i>Metzenbaum</i> .....	32-33	Spectacles Headband.....	168	Staplers, skin.....	120-121
Mini- <i>Lister</i> .....	31	Spectacles, magnifier.....	166-169	Sterilizers, hot bead.....	149
Moria.....	5, 7, 12, 18	<i>Spencer</i> Ligature.....	26	Sterilizing containers.....	152-153
<i>Shea</i> .....	25	Spinal Cord Hook.....	99	Sterilizing mats.....	151
<i>Spencer</i> Ligature.....	26	Spoons		Sterilizing pouches.....	148
Spring.....	3-14	Mini Perforated Spoon.....	108	Sterilizing wraps.....	152
Standard Pattern.....	29	Mirror Finish Cutting Spoon.....	108	<i>Stevens</i> tenotomy scissors.....	24
<i>Stevens</i> Tenotomy.....	24	Moria Spoon.....	108	Stone Age Scalpels.....	53

<i>Strabismus</i> .....	23	Titanium		Vascular clamps.....	130, 132-133
Student		About.....	183	Vascular occluders .....	134
Bone Scissors.....	174	Artery clamp.....	133	Vernier caliper.....	163
Bone Cutter .....	174	Ceramic .....	10	Vessel cannulation aids .....	136-139
Dumont forceps.....	176	Forceps .....	65, 69, 80, 86, 90	Vessel cauterizer .....	158
Forceps .....	175-177	Micro Point.....	102	Vessel dilating probe.....	103
Hemostatic forceps.....	178	Micro Spatula.....	102	Vessel dilators .....	103, 136-137
Instruments, About.....	183	Scissors .....	5	Vessel spring scissors .....	14
Lister.....	174	Serrefines.....	132	Vetro grasping forceps .....	78
Needle holder.....	178	Vascular Clamps.....	130, 132	Vial forceps.....	78
Pin holder.....	179	Y-Hook .....	102	VisorLight.....	166
Retractor .....	179	Tools .....	160-161	Vitreotomy scissors .....	13
Scalpel handle.....	179	ToughCut		V-Hook.....	135
Scissors .....	173-174	About.....	183	<i>Von Graefe</i> knife .....	50
Spring scissors, <i>Vannas</i> .....	173	<i>Bonn-Strabismus</i> .....	15		
Superior Line		<i>Mayo</i> .....	34	<b>W</b>	
Spring Scissors .....	3	<i>Metzenbaum</i> .....	33	<i>Wagner</i> .....	19
<i>Vannas-Tubingen</i> .....	4	Scissors .....	6, 15, 20, 30, 33-34	<i>Walton</i> .....	24
SuperGrip forceps .....	75	Spring scissors .....	6	Wax .....	48
Surgical scissors.....	29-35	Scissors with tungsten carbide.....	21	<i>Weitlaner-Locktite</i> retractor .....	128
Left-handed.....	29	Standard Pattern.....	30	<i>Westcott</i> spring scissors .....	10
Surgery plate.....	129	Trephines .....	157	Wire contacts, gold.....	165
Suture		Trident II spring scissors .....	11	Wire teeth retractor .....	125
Clips, AutoClip.....	121	Tungsten needles, etched .....	107	Wound Closure .....	110-121
Clips, <i>Michel</i> .....	117	Tungsten carbide		Wraps, sterilization.....	152
Needles .....	116-117	About.....	183	<i>Wullstein</i> retractor .....	128
Nylon .....	117	Burrs .....	157		
S&T micro needles and suture .....	116	Cutter.....	41		
<i>Suturing Principles and Techniques in</i>		Forceps .....	84		
<i>Laboratory Animals, Manual and DVD</i> ... 118		<i>Mayo</i> .....	34		
Thread .....	116-117	<i>Metzenbaum Fino</i> .....	32		
Tying forceps.....	77-78	Needle holders.....	111-115		
Swabs		<i>Noyes</i> .....	9		
Fiber Optic .....	159	Scissors .....	9, 20-21, 23, 30-32, 34, 44		
		Scissors with ToughCut .....	21		
		Standard Pattern.....	30		
		<i>Strabismus</i> .....	23		
<b>T</b>		Tweezers, Dumont.....	41, 63-72, 139		
Tags, Ear.....	143				
Tape		<b>U</b>			
Dispenser .....	150	Ultra Fine Clipper Scissors II.....	14		
Identification.....	146	Ultra Fine Hemostat .....	92		
Sterilization .....	150	Utility scissors .....	161		
Ruler Label .....	162				
Tattoo system.....	143	<b>V</b>			
<i>Taylor</i> forceps .....	91	<i>Vannas</i> spring scissors.....	3-7, 173		
Timers .....	165	<i>Vannas-Miniature</i> spring scissors.....	5		
Tip protectors .....	147	<i>Vannas-Tubingen</i> spring scissors.....	4		
Tip Replacement.....	87	<i>Vannas-Wolff</i> spring scissors .....	7		
Tissue					
Pick .....	99				
Scissors .....	27				

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& Scalpels**  
pages 3–61



**Forceps & Hemostats**  
pages 63–97



**Probes, Needle Holders, Thread,  
Retractors & Clamps**  
pages 99–139



**Surgical & Laboratory  
Accessories**  
pages 141–171



**Student Quality Instruments**  
pages 173–179



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pages 181–200



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