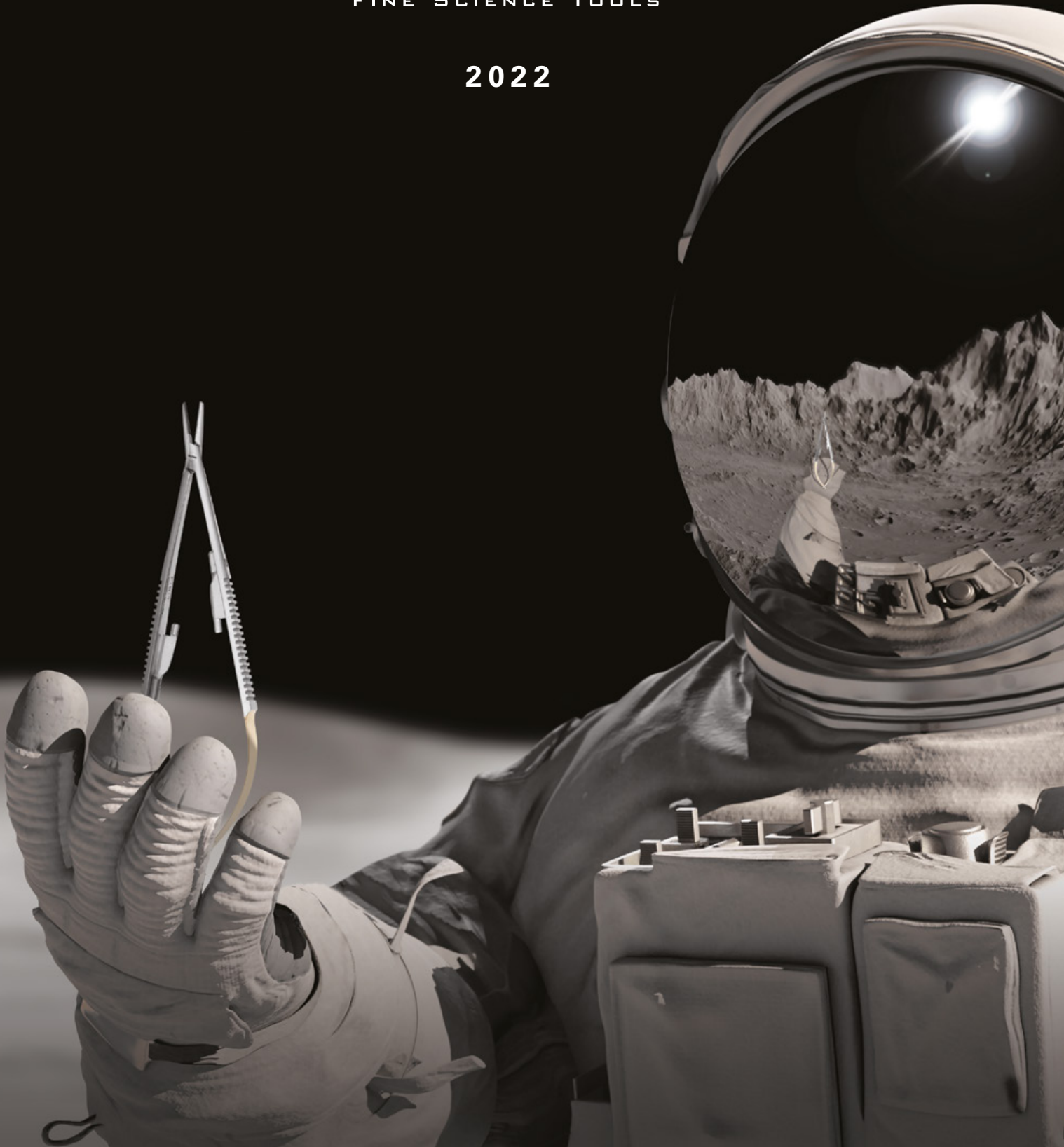


**F · S · T**  
FINE SCIENCE TOOLS

2022



**FINE SURGICAL INSTRUMENTS FOR RESEARCH™**

## Letter from the Managing Partner

Dear valued customers,

As we are coming into 2022 together, I would like to start by saying thank you to our incredibly loyal customer base – who have continuously been walking side by side with Fine Science Tools on this journey, with many of you actively working on research, diagnostics, therapeutics, and vaccinations against Covid-19. Going through this unprecedented time reveals the core values and the culture of every company, who we are, what we stand for and what kind of future we want to build together. We have been reminded of what is truly important – love, compassion, empathy, and taking care of one another. Across Fine Science Tools, we have embraced the spirit by focusing again on our core values and services that have defined us for over 45 years. Our commitment to listening and closely working with our customers has remained the same. Working together once again highlights our true abilities towards the long-term value of our company. Together we will overcome the most difficult obstacles.

To ensure that our values are exemplified we have introduced a management team of 7 specializing in fundamental areas of our business – all of them collaborating very closely with our amazing teams worldwide. We have as well extensively expanded our product range by 100+ products, many of which directly result from requests by customers like you. This growth displays our continued guarantee of high-quality instrumentation, impeccable customer service, and wide selection.

As always, neither this growth nor this success would be possible without you. On behalf of all of us at Fine Science Tools, once again thank you for placing your trust in us as your partner. Thank you for your tireless commitment, every day, to putting our shared values into action. I remain as optimistic as ever about our ability to build a better tomorrow, because we will be building it together with you.

Sincerely,



Markus Gawenda



Markus Gawenda  
Managing Partner



Hans Gawenda  
Founder



Rob Gawenda  
President

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

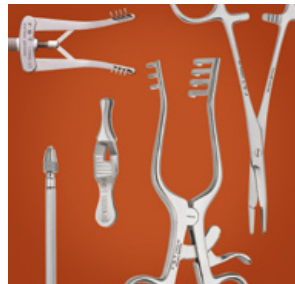
All surgical instruments and devices from the Fine Science Tools product range are intended exclusively for use in experimental research laboratories and facilities or in veterinary medicine. Our Customer Support is available to answer any questions you may have about the field of application and the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



<b>Scissors</b>	<b>3 – 35</b>
Spring	3 – 14
Fine	15 – 28
Surgical	29 – 35
<b>Bone Instruments</b>	<b>36 – 51</b>
Rongeurs	36 – 38
Cutters	41 – 48
Other Bone Instruments	49 – 50
Curettes & Chisels	51
<b>Knives &amp; Scalpels</b>	<b>52 – 63</b>



<b>Forceps</b>	<b>65 – 95</b>
Dumont	65 – 74
Fine	75 – 84
Moria	78
S&T	79, 81
Standard	85 – 95
<b>Hemostats</b>	<b>96 – 101</b>



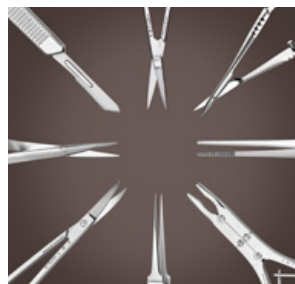
<b>Probes &amp; Hooks</b>	<b>103 – 107</b>
<b>Spatulae</b>	<b>106 – 109</b>
<b>Hippocampal Tools &amp; Spoons</b>	<b>110 – 111</b>
<b>Pins &amp; Holders</b>	<b>112 – 113</b>
<b>Wound Closure</b>	<b>114 – 125</b>
Needle Holders & Suture	114 – 122
Staplers, Clips & Applicators	123 – 125
<b>Retractors</b>	<b>126 – 133</b>
<b>Vascular Instruments</b>	<b>134 – 143</b>
Clamps & Occluders	134 – 138
Ligation Aids	139
Dilation & Cannulation	140 – 143



<b>Animal Accessories</b>	<b>145 – 148</b>
Feeding Needles	145 – 146
Animal Identification	147 – 148
<b>Instrument Care &amp; Accessories</b>	<b>149 – 161</b>
Hot Bead Sterilizer	154
Instrument Cases	157 – 160
<b>Surgical Accessories</b>	<b>162 – 165</b>
Drill Accessories	162
Cauterizers	163 – 164
<b>Laboratory Accessories</b>	<b>166 – 177</b>
Tools	166 – 171
Magnifiers & Lens Paper	172 – 177



<b>Student Instruments</b>	<b>179 – 199</b>
Quality instruments with the student in mind	
Scissors	179 – 184
Cutter	184
Scalpel Handles	185
Forceps	186 – 191
Fine Forceps	186 – 188
Standard Forceps	189 – 191
Hemostats	192 – 197
Needle Holder	198
Retractors, Vessel Dilator & Clamps	199

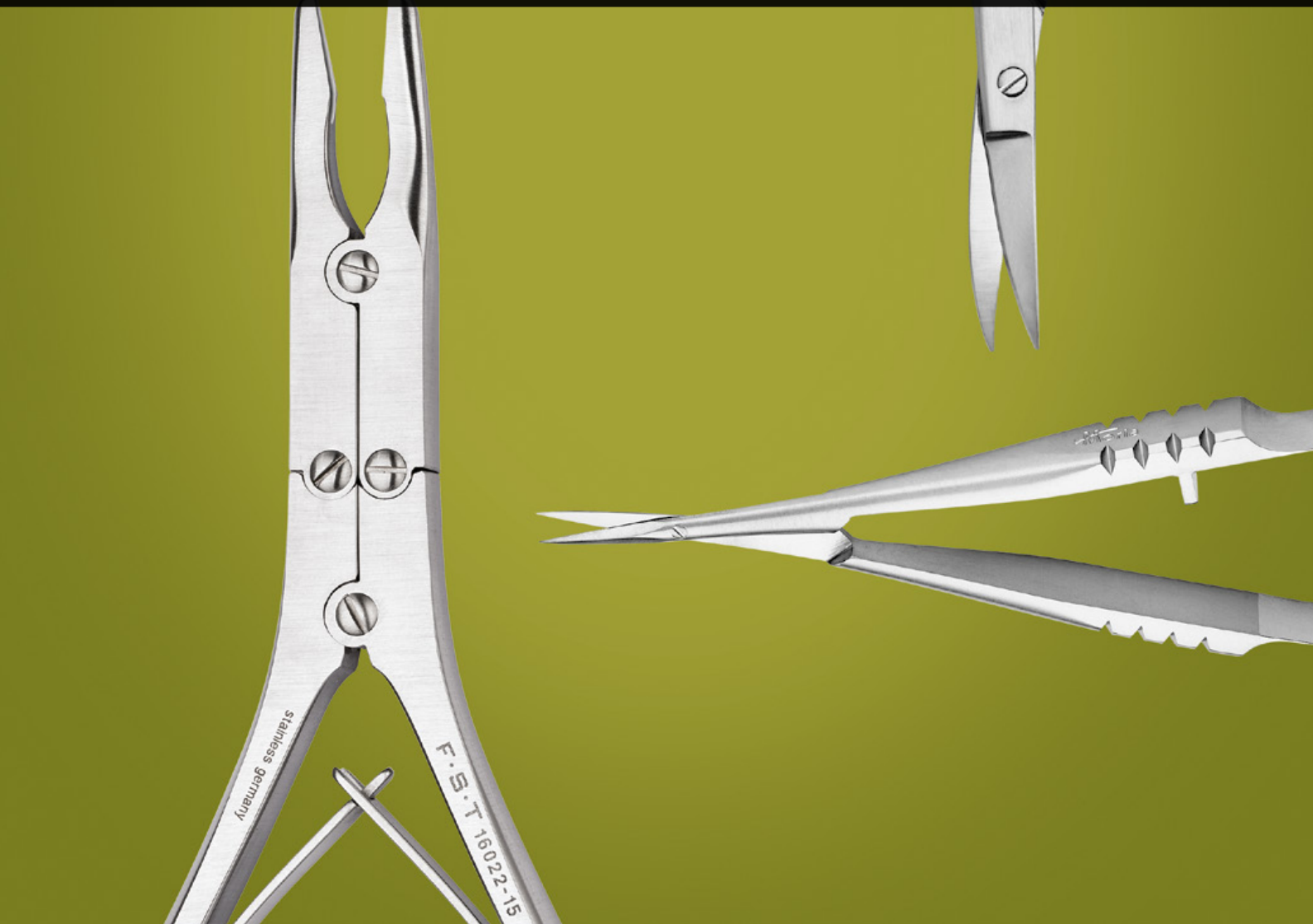


<b>Reference Pages</b>	<b>201 – 220</b>
Worldwide Locations	201
Scissors Test	202
Features and Alloys	203
Maintenance and Care	204 – 205
Quality Control	206
Student Line	207
Selection	208
Dumont	209
Numerical and Alphabetical Indexes	210 – 219
Additional Information	220



# Scissors, Bone Instruments, Knives & Scalpels

Spring Scissors	Pages	3 – 14
Fine Scissors	Pages	15 – 28
Surgical Scissors	Pages	29 – 35
Bone Instruments	Pages	36 – 51
Knives & Scalpels	Pages	52 – 63



**Micro Vannas**

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



**FST  
HAND  
CRAFTED**

For more information  
see page 38.



300%

**Micro Vannas**

The short taper is ideal for small, precise cuts.



15000-08



**FST  
HAND  
CRAFTED**

For more information  
see page 38.



300%



Straight  
Sharp/Sharp

8 cm  
Cutting edge: 2 mm  
Tip Ø: 0,05 mm

No. 15000-03



Curved  
Sharp/Sharp

8 cm  
Cutting edge: 2 mm  
Tip Ø: 0,05 mm

No. 15000-04



Straight  
Sharp/Sharp

8 cm  
Cutting edge: 2,5 mm  
Tip Ø: 0,05 mm

No. 15000-08



Curved  
Sharp/Sharp

8 cm  
Cutting edge: 2,5 mm  
Tip Ø: 0,05 mm

No. 15001-08



Angled to side  
Sharp/Sharp

8 cm  
Cutting edge: 2,5 mm  
Tip Ø: 0,05 mm

No. 15002-08

**Micro Vannas**

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



15000-00



**FST  
HAND  
CRAFTED**

For more information  
see page 38.



300%



Straight  
Sharp/Sharp

8 cm  
Cutting edge: 3 mm  
Tip Ø: 0,05 mm

No. 15000-00



Curved  
Sharp/Sharp

8 cm  
Cutting edge: 3 mm  
Tip Ø: 0,05 mm

No. 15000-10



Straight  
Sharp/Sharp

10,5 cm  
Cutting edge: 4 mm  
Tip Ø: 0,15 mm

No. 15018-10



Curved  
Sharp/Sharp

10,5 cm  
Cutting edge: 4 mm  
Tip Ø: 0,15 mm

No. 15019-10

**Vannas**



**FST  
HAND  
CRAFTED**

For more information  
see page 38.



**Vannas-Tübingen**



15003-08



**FST  
HAND  
CRAFTED**

For more information  
see page 38.



Straight  
Sharp/Sharp

8,5 cm  
Cutting edge: 5 mm  
Tip Ø: 0,075 mm

No. 15003-08



Angled to side  
Sharp/Sharp

8,5 cm  
Cutting edge: 5 mm  
Tip Ø: 0,075 mm

No. 15008-08



Curved  
Sharp/Sharp

8,5 cm  
Cutting edge: 5 mm  
Tip Ø: 0,075 mm

No. 15004-08



Angled up  
Sharp/Sharp

9,5 cm  
Cutting edge: 5 mm  
Tip Ø: 0,075 mm

No. 15005-08

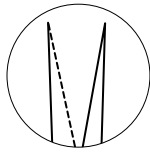
### Vannas Scissors with Microserrations

Microserrated to minimize slippage.



**FST  
HAND  
CRAFTED**

For more information  
see page 38.



300%

### Miniature Vannas

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



Straight  
Sharp/Sharp

8,5 cm  
Cutting edge: 4 mm  
Tip Ø: 0,1 mm

No. 15070-08



Straight  
Sharp/Sharp

9 cm  
Cutting edge: 5 mm  
Tip Ø: 0,1 mm

No. 15007-08



Curved  
Sharp/Sharp

8,5 cm  
Cutting edge: 4 mm  
Tip Ø: 0,1 mm

No. 15071-08

Moria 9600



Straight  
Sharp/Sharp

8 cm  
Cutting edge: 5 mm  
Tip Ø: 0,1 mm

No. 15396-00

Moria 9601



Curved  
Sharp/Sharp

8 cm  
Cutting edge: 5 mm  
Tip Ø: 0,1 mm

No. 15396-01

**Titanium Vannas**

**TITANIUM**

For more information see page 205.



**FST  
HAND  
CRAFTED**

For more information see page 38.



Straight  
Sharp/Sharp

9,5 cm  
Cutting edge: 5 mm  
Tip Ø: 0,3 mm

No. 15610-08



Curved  
Sharp/Sharp

9,5 cm  
5 mm  
Tip Ø: 0,3 mm

No. 15615-08



Angled up  
Sharp/Sharp

9,5 cm  
5 mm  
Tip Ø: 0,3 mm

No. 15617-08

**Cohan-Vannas**

Long cutting blades for a more controlled cut.



**FST  
HAND  
CRAFTED**

For more information see page 38.



Straight  
Sharp/Sharp

6 cm  
Cutting edge: 6 mm  
Tip Ø: 0,1 mm

No. 15000-02

Straight  
Blunt/Blunt

6 cm  
6 mm  
Tip Ø: 0,1 mm

No. 15000-12



Curved  
Sharp/Sharp

6 cm  
6 mm  
Tip Ø: 0,1 mm

No. 15000-01

Curved  
Blunt/Blunt

6 cm  
6 mm  
Tip Ø: 0,1 mm

No. 15000-11

**ToughCut® Spring Scissors**

**TOUGH  
CUT**

For more information see page 205.



**FST  
HAND  
CRAFTED**

For more information see page 38.



Straight  
Sharp/Sharp

12,5 cm  
6 mm  
Tip Ø: 0,3 mm

No. 15124-12



Curved  
Sharp/Sharp

12,5 cm  
6 mm  
Tip Ø: 0,3 mm

No. 15123-12

**Round Handled Vannas**

Round handles allow easy fingertip adjustments.



For more information see page 38.



Straight  
Sharp/Sharp

12,5 cm  
Cutting edge: 6 mm  
Tip Ø: 0,075 mm

No. 15400-12



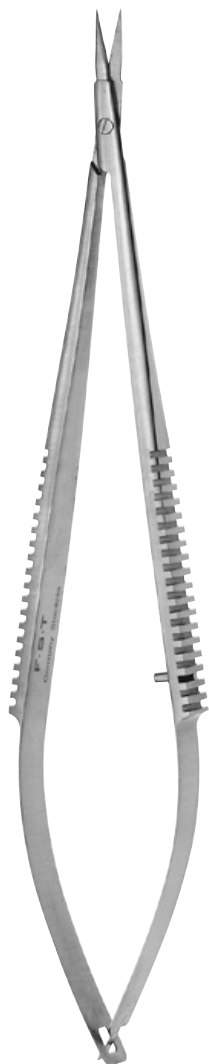
Curved  
Sharp/Sharp

12,5 cm  
Cutting edge: 6 mm  
Tip Ø: 0,075 mm

No. 15401-12



For more information see page 38.



Straight  
Sharp/Sharp

14 cm  
Cutting edge: 6 mm  
Tip Ø: 0,15 mm

No. 15020-15



Curved  
Sharp/Sharp

14 cm  
Cutting edge: 6 mm  
Tip Ø: 0,15 mm

No. 15021-15



For more information about our ceramic instruments please visit page 203.



For more information see page 38.



Straight  
Sharp/Sharp

10 cm  
Cutting edge: 7 mm  
Tip Ø: 0,1 mm

No. 15750-11



Curved  
Sharp/Sharp

10 cm  
Cutting edge: 7 mm  
Tip Ø: 0,1 mm

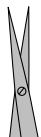
No. 15751-11



**Vannas-Wolff**



Moria MC52



Straight  
Sharp/Sharp

10 cm

Cutting edge: 7 mm

Tip Ø: 0,15 mm

No. 15370-52

Moria MC50



Curved  
Sharp/Sharp

10 cm

Cutting edge: 7 mm

Tip Ø: 0,15 mm

No. 15370-50

**Vannas**

Ultra long cutting edge  
without sacrificing tip width.



**FST  
HAND  
CRAFTED**

For more information  
see page 38.



Straight  
Sharp/Sharp

8,5 cm

Cutting edge: 8 mm

Tip Ø: 0,1 mm

No. 15009-08

**Castroviejo**



**FST  
HAND  
CRAFTED**

For more information  
see page 38.



Angled to side  
Sharp/Sharp

10 cm

Cutting edge: 10 mm

Tip Ø: 0,125 mm

No. 15006-09

**Castroviejo with Ball Tip**

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



For more information see page 38.



Angled to side  
Sharp/Sharp

9 cm  
Cutting edge: 8 mm  
Tip Ø: 1,3 mm Ball

No. 15033-09

**Spring Scissors**



For more information see page 38.



Straight  
Sharp/Sharp

10 cm  
Cutting edge: 8 mm  
Tip Ø: 0,15 mm

No. 15024-10



Straight  
Blunt/Blunt

10 cm  
Cutting edge: 8 mm  
Tip Ø: 0,15 mm

No. 15025-10



Curved  
Sharp/Sharp

10 cm  
Cutting edge: 8 mm  
Tip Ø: 0,15 mm

No. 15023-10



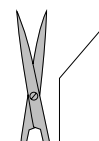
For more information see page 38.



Straight  
Sharp/Sharp

11,5 cm  
Cutting edge: 10 mm  
Tip Ø: 0,1 mm

No. 15040-11



Angled up  
Sharp/Sharp

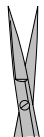
11,5 cm  
Cutting edge: 10 mm  
Tip Ø: 0,1 mm

No. 15042-11

**Noyes**



For more information see page 38.



Straight  
Sharp/Sharp

12 cm  
Cutting edge: 14 mm  
Tip Ø: 0,2 mm

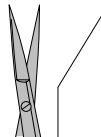
No. 15012-12



Curved  
Sharp/Sharp

12 cm  
Cutting edge: 14 mm  
Tip Ø: 0,2 mm

No. 15011-12



Angled up  
Sharp/Sharp

12 cm  
Cutting edge: 14 mm  
Tip Ø: 0,2 mm

No. 15013-12

**Tungsten Carbide Noyes**

Tungsten carbide cutting edges provide long lasting sharpness.



For more information see page 203.



For more information see page 38.



Straight  
Sharp/Sharp

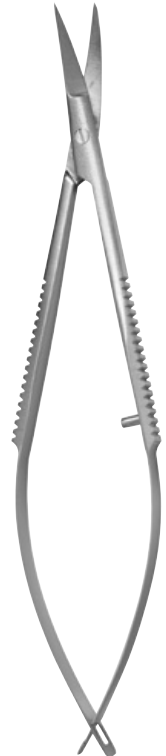
12 cm  
Cutting edge: 14 mm  
Tip Ø: 0,275 mm

No. 15514-12

**Castroviejo**



For more information see page 38.



Sharply curved  
Sharp/Sharp

10 cm  
Cutting edge: 10 mm  
Tip Ø: 0,2 mm

No. 15017-10

**Ceramic Coated Titanium Castroviejo**



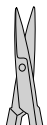
For more information see page 38.

**•TITANIUM•**

For more information see page 203.

**CERAMIC COATED**

For more information about our ceramic instruments please visit page 203.



Straight  
Sharp/Sharp

11 cm  
Cutting edge: 5 mm  
Tip Ø: 0,2 mm

No. 15650-11



Curved  
Sharp/Sharp

11 cm  
Cutting edge: 5 mm  
Tip Ø: 0,2 mm

No. 15651-11

**Westcott**



For more information see page 38.



Slightly curved  
Sharp/Sharp

11 cm  
Cutting edge: 15 mm  
Tip Ø: 0,25 mm

No. 15015-11

**Fine Angled Spring Scissors**

These spring scissors aid in cutting tissues from various angles.



For more information see page 38.



Angled up  
Sharp/Sharp

9,5 cm  
Cutting edge: 2 mm  
Tip Ø: 0,1 mm

No. 15010-09



Angled up  
Sharp/Sharp

10 cm  
Cutting edge: 4 mm  
Tip Ø: 0,125 mm

No. 15010-10

**Trident II**

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



Straight  
Sharp/Sharp

8 cm  
Cutting edge: 8 mm  
Tip Ø: 0,2 mm

No. 15110-08



Angled to side  
Sharp/Sharp

8 cm  
Cutting edge: 8 mm  
Tip Ø: 0,2 mm

No. 15111-08

**Pascheff-Wolff**

Very delicate blades.



Moria MC19/B



Angled up  
Sharp/Sharp

10,5 cm  
Cutting edge: 3 mm  
Tip Ø: 0,15 mm

No. 15371-92

**Long Handle Spring Scissors**



Straight  
Sharp/Sharp

18,5 cm  
Cutting edge: 5 mm  
Tip Ø: 0,2 mm

No. 15028-18



Curved  
Sharp/Sharp

18,5 cm  
Cutting edge: 5 mm  
Tip Ø: 0,2 mm

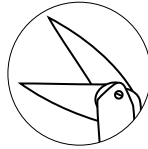
No. 15027-18

**Micro Scissors**

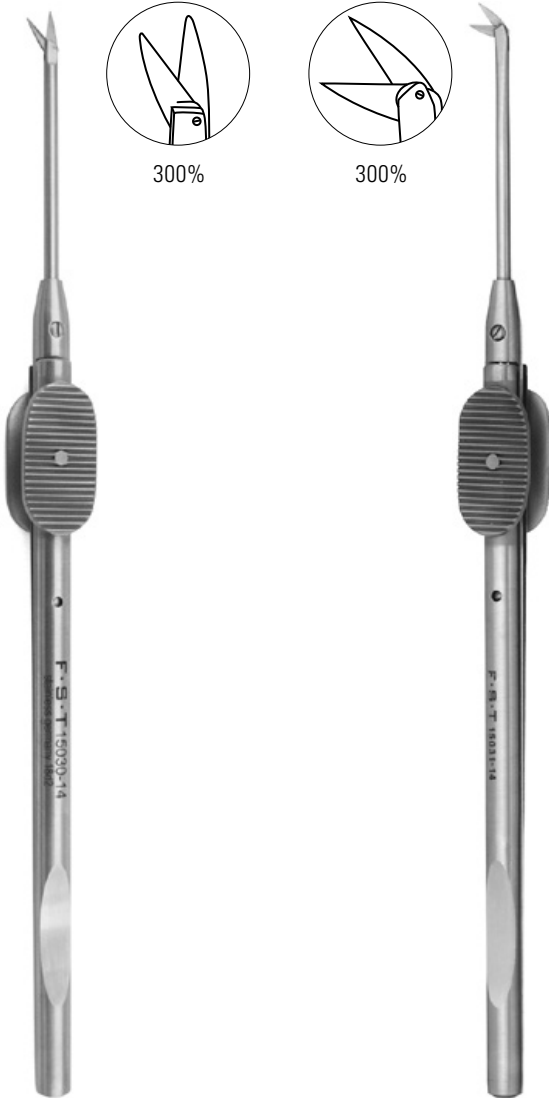
With microserrations to minimize slippage.



300%



300%



Straight  
Sharp/Sharp

14,5 cm  
Cutting edge: 2,5 mm  
Tip Ø: 0,175 mm

No. 15030-14



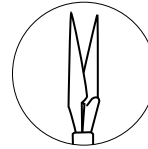
Angled to side  
Sharp/Sharp

14,5 cm  
Cutting edge: 2,5 mm  
Tip Ø: 0,175 mm

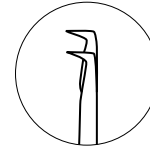
No. 15031-14

**Vitrectomy Scissors**

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



300%



300%



Straight  
Sharp/Sharp

14 cm  
Cutting edge: 2,2 mm  
Tip Ø: 0,15 mm

No. 15036-14



Angled 90°  
Sharp/Sharp

14 cm  
Cutting edge: 1 mm  
Tip Ø: 0,1 mm

No. 15037-14

### Ultra Fine Clipper Scissors II

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



Uses:

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

Straight  
Sharp/Sharp

10 cm  
Cutting edge: 1,5–2 mm  
Tip Ø: 0,05–0,08 mm  
Blade shape: Triangular  
Blade thickness: 0,1 mm

No. 15300-00

### Biemer Scissors

These scissors are designed to securely cut vessels without slipping.



Straight  
Blunt/Blunt

8,5 cm  
Cutting edge: 4 mm  
Tip Ø: 2 mm

No. 15032-08

Straight  
Blunt/Blunt

13 cm  
Cutting edge: 2 mm  
Tip Ø: 2 mm

No. 15032-13

**Extra Fine Bonn**

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

**MOST POPULAR**

14084-08  
14085-08



Straight  
Sharp/Sharp

8,5 cm  
Cutting edge: 13 mm

No. 14084-08



Curved  
Sharp/Sharp

8,5 cm  
Cutting edge: 13 mm

No. 14085-08



Straight  
Sharp/Blunt

8,5 cm  
Cutting edge: 13 mm

No. 14083-08



Straight  
Sharp/Sharp

9 cm  
Cutting edge: 13 mm

No. 14184-09



Curved  
Sharp/Sharp

9 cm  
Cutting edge: 13 mm

No. 14185-09

**Bonn**

Highly polished.



**ToughCut® Bonn-Strabismus**

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



For more information  
see page 203.



Straight  
Blunt/Blunt

9 cm  
Cutting edge: 14 mm

No. 14084-09



Curved  
Blunt/Blunt

9 cm  
Cutting edge: 14 mm

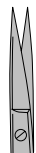
No. 14085-09



**Hardened Fine Iris Scissors**

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

**MOST POPULAR**  
14090-09



Straight  
Sharp/Sharp

9 cm  
Cutting edge: 24 mm

No. 14090-09



Curved  
Sharp/Sharp

9 cm  
Cutting edge: 24 mm

No. 14091-09

11 cm  
Cutting edge: 26 mm

No. 14090-11

11 cm  
Cutting edge: 26 mm

No. 14091-11

**Fine Iris Scissors**

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



Straight  
Sharp/Sharp

10,5 cm  
Cutting edge: 26 mm

No. 14094-11



Curved  
Sharp/Sharp

10,5 cm  
Cutting edge: 26 mm

No. 14095-11

**Iris Scissors**

Delicate pattern.

**MOST POPULAR**

14060-11



Straight  
Sharp/Sharp

9 cm  
Cutting edge: 21 mm

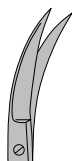
No. 14060-09



Curved  
Sharp/Sharp

9 cm  
Cutting edge: 21 mm

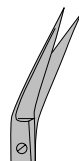
No. 14061-09



Curved to side  
Sharp/Sharp

9 cm  
Cutting edge: 21 mm

No. 14062-09



Angled to side  
Sharp/Sharp

9 cm  
Cutting edge: 21 mm

No. 14063-09

10,5 cm  
Cutting edge: 23 mm

No. 14060-10

10,5 cm  
Cutting edge: 23 mm

No. 14061-10

10,5 cm  
Cutting edge: 23 mm

No. 14062-10

11,5 cm  
Cutting edge: 23 mm

No. 14063-11

11,5 cm  
Cutting edge: 25 mm

No. 14060-11

11,5 cm  
Cutting edge: 25 mm

No. 14061-11

**Left Handed Iris Scissors**

**LEFT HANDED**



Straight  
Sharp/Sharp

11,5 cm  
Cutting edge: 25 mm

No. 14160-10



Curved  
Sharp/Sharp

11,5 cm  
Cutting edge: 25 mm

No. 14161-10

**Moria Iris Scissors**



Moria 4877



Straight  
Sharp/Sharp

12,5 cm  
Cutting edge: 25 mm

No. 14370-22

Moria 4878



Shallow curve  
Sharp/Sharp

10,5 cm  
Cutting edge: 25 mm

No. 14370-23

**Extra Narrow Iris Scissors**

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



Side-view showing  
extra narrow pattern

Straight  
Sharp/Sharp

10,5 cm  
Cutting edge: 23 mm

No. 14088-10

Large Loops Scissors



Straight  
Sharp/Sharp

10 cm  
Cutting edge: 25 mm

No. 14040-10



Curved  
Sharp/Sharp

10 cm  
Cutting edge: 25 mm

No. 14041-10

Wagner



Straight  
Sharp/Sharp

12 cm  
Cutting edge: 30 mm

No. 14068-12



Curved  
Sharp/Sharp

12 cm  
Cutting edge: 30 mm

No. 14069-12



Straight  
Sharp/Sharp

12 cm  
Cutting edge: 30 mm

No. 14070-12



Curved  
Sharp/Sharp

12 cm  
Cutting edge: 30 mm

No. 14071-12

**ToughCut®**

**MOST POPULAR**

14058-09  
14058-11

**TOUGH CUT**

For more information  
see page 203.



Straight  
Sharp/Sharp

9 cm  
Cutting edge: 22 mm

No. 14058-09



Curved  
Sharp/Sharp

9 cm  
Cutting edge: 22 mm

No. 14059-11

11,5 cm  
Cutting edge: 25 mm

No. 14058-11

11,5 cm  
Cutting edge: 25 mm

No. 14059-11

**Tungsten Carbide**

**MOST POPULAR**

14568-09  
14568-12

**TUNGSTEN CARBIDE**

For more information  
see page 203.



Straight  
Sharp/Sharp

9 cm  
Cutting edge: 22 mm

No. 14568-09



Curved  
Sharp/Sharp

9 cm  
Cutting edge: 22 mm

No. 14569-12

11,5 cm  
Cutting edge: 25 mm

No. 14568-12

11,5 cm  
Cutting edge: 25 mm

No. 14569-12

**ToughCut® and Tungsten Carbide**



For more information see page 203.



For more information see page 203.



Straight  
Sharp/Sharp

9 cm  
Cutting edge: 22 mm

No. 14558-09

11,5 cm  
Cutting edge: 25 mm

No. 14558-11



Curved  
Sharp/Sharp

9 cm  
Cutting edge: 22 mm

No. 14559-09

11,5 cm  
Cutting edge: 25 mm

No. 14559-11

**CeramaCut®**

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



For more information see page 203.



Straight  
Sharp/Sharp

9 cm  
Cutting edge: 22 mm

No. 14958-09

11,5 cm  
Cutting edge: 25 mm

No. 14958-11



Curved  
Sharp/Sharp

9 cm  
Cutting edge: 22 mm

No. 14959-09

11,5 cm  
Cutting edge: 25 mm

No. 14959-11

Fine Scissors

Lexer-Baby



Straight  
Sharp/Blunt

Curved  
Sharp/Blunt

10 cm  
Cutting edge: 27 mm

10 cm  
Cutting edge: 27 mm

No. 14028-10

No. 14029-10



Straight  
Blunt/Blunt

Curved  
Blunt/Blunt

10 cm  
Cutting edge: 25 mm

10 cm  
Cutting edge: 25 mm

No. 14078-10

No. 14079-10

**Strabismus**

**Tungsten Carbide Strabismus**

**TUNGSTEN  
CARBIDE**

For more information  
see page 203.



Straight  
Blunt/Blunt

9 cm  
Cutting edge: 20 mm

No. 14074-09

11,5 cm  
Cutting edge: 23 mm

No. 14074-11



Curved  
Blunt/Blunt

9 cm  
Cutting edge: 20 mm

No. 14075-09

11,5 cm  
Cutting edge: 23 mm

No. 14075-11



Straight  
Blunt/Blunt

9 cm  
Cutting edge: 20 mm

No. 14574-09

11 cm  
Cutting edge: 23 mm

No. 14574-11



Curved  
Blunt/Blunt

9 cm  
Cutting edge: 20 mm

No. 14575-09

11 cm  
Cutting edge: 23 mm

No. 14575-11



Walton



Slightly curved  
Sharp/Sharp

9,5 cm  
Cutting edge: 15 mm

No. 14077-09



Slightly curved  
Sharp/Sharp

10,5 cm  
Cutting edge: 18 mm

No. 14077-10

Stevens Tenotomy



Straight  
Sharp/Sharp

11 cm  
Cutting edge: 21 mm

No. 14064-11



Straight  
Blunt/Blunt

11 cm  
Cutting edge: 21 mm

No. 14066-11



Curved  
Sharp/Sharp

11 cm  
Cutting edge: 21 mm

No. 14065-11



Curved  
Blunt/Blunt

11 cm  
Cutting edge: 21 mm

No. 14067-11

**LaGrange**

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



Side View



Curved  
Sharp/Sharp

11,5 cm  
Cutting edge: 18 mm

No. 14173-12

**Shea**

Transplant scissors with light and delicate pattern.



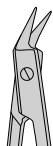
Curved  
Blunt/Blunt

12 cm  
Cutting edge: 20 mm

No. 14105-12

**Dissector Scissors**

Slim blades for cutting tissue.



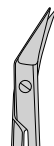
Angled to side  
Sharp/Sharp

10 cm  
Cutting edge: 8 mm

No. 14081-09

**Dissector Scissors**

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



Angled to side  
Sharp/Sharp

10,5 cm  
Cutting edge: 12 mm

No. 14082-09

**Spencer Ligature**

Used for cutting stitches or suture.



Straight  
Sharp/Sharp

9 cm  
Cutting edge: 20 mm

No. 14076-09

**Bonn Artery**

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



Straight  
Sharp/Ball tip

9 cm  
Cutting edge: 13 mm  
Tip Ø: 1,5 mm Ball

No. 14086-09



Straight  
Sharp/Ball tip

11,5 cm  
Cutting edge: 25 mm  
Tip Ø: 1,5 mm Ball

No. 14080-11

**Tissue Separating Scissors**

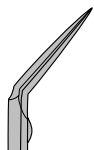


Straight  
Blunt/Blunt

11,5 cm  
Cutting edge: 23 mm

No. 14072-10

**Graefe**



Sharply angled up  
Sharp/Sharp

10,5 cm  
Cutting edge: 14 mm

No. 14037-10

**Adjustable Loops Fine Scissors**

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



Straight  
Sharp/Sharp

9,5 cm  
Cutting edge: 14 mm

No. 14106-09



Straight  
Blunt/Blunt

9,5 cm  
Cutting edge: 14 mm

No. 14108-09

**Kaye**

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



Slightly curved  
Blunt/Blunt

10,5 cm  
Cutting edge: 22 mm

No. 14171-10

Standard Pattern



14001-12 – 14001-18

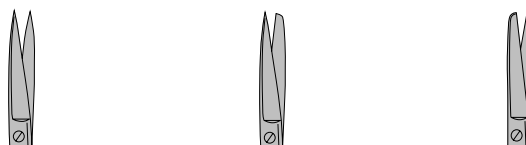


14008-14



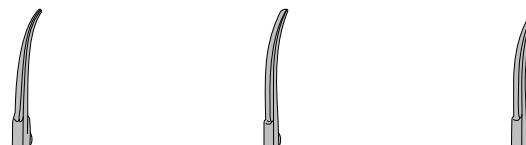
**Our standard surgical scissors are recognized for these important features:**

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



Length (cm)	Cutting edge (mm)	Straight Sharp/Sharp	Straight Sharp/Blunt	Straight Blunt/Blunt
12	40	No. 14002-12	No. 14001-12	No. 14000-12
13	40	No. 14002-13	No. 14001-13	No. 14000-13
14,5	45	No. 14002-14	No. 14001-14	No. 14000-14
16,5	50	No. 14002-16	No. 14001-16	No. 14000-16
18,5	55		No. 14001-18	No. 14000-18
20	60			No. 14000-20

Length (cm)	Cutting edge (mm)	Straight Sharp/Blunt
14,5	45	No. 14008-14



Length (cm)	Cutting edge (mm)	Curved Sharp/Sharp	Curved Sharp/Blunt	Curved Blunt/Blunt
12	40	No. 14005-12	No. 14004-12	No. 14003-12
13	40	No. 14005-13	No. 14004-13	No. 14003-13
14,5	45	No. 14005-14	No. 14004-14	No. 14003-14
16,5	50	No. 14005-16	No. 14004-16	No. 14003-16
18,5	55		No. 14004-18	No. 14003-18
20	60			No. 14003-20

**ToughCut® Standard Pattern**

**MOST POPULAR**

14054-13

**TOUGH CUT**

For more information see page 203.



80% of actual size

**Tungsten Carbide Standard Pattern**

**TUNGSTEN CARBIDE**

For more information see page 203.



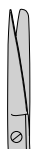
80% of actual size

**Standard Pattern with Serrations**

**SERRATED**



80% of actual size



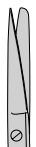
Straight Sharp/Blunt  
13 cm  
Cutting edge: 40 mm  
No. 14054-13



Straight Sharp/Sharp  
14,5 cm  
45 mm  
No. 14502-14



Straight Sharp/Blunt  
14,5 cm  
45 mm  
No. 14501-14



Straight Sharp/Blunt  
17,5 cm  
Cutting edge: 60 mm  
No. 14130-17



Curved Sharp/Sharp  
14,5 cm  
45 mm  
No. 14505-14



Curved Sharp/Blunt  
14,5 cm  
45 mm  
No. 14504-14



Straight Sharp/Blunt  
14 cm  
40 mm  
No. 14007-14

**Standard Pattern with Large Finger Loops**



80% of actual size



Straight  
Sharp/Blunt

14,5 cm  
Cutting edge: 45 mm

No. 14101-14

**Tungsten Carbide Mini-Lister**



For more information see page 203.



Angled to side  
Blunt/Blunt

9 cm  
Cutting edge: 20 mm

No. 14531-09



**Lister**

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



80% of actual size



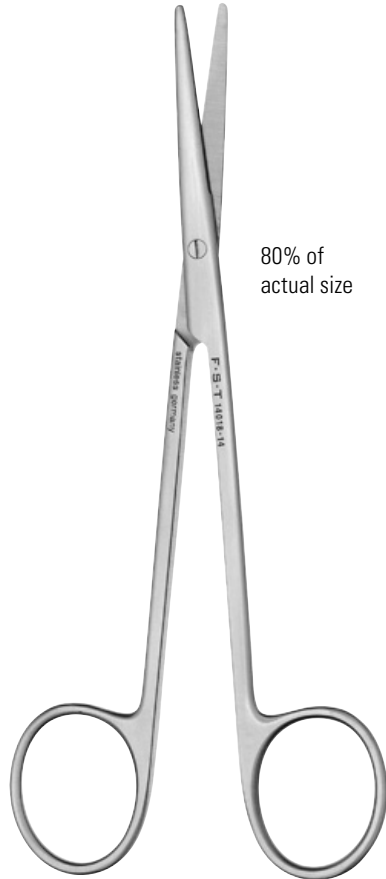
Angled to side  
Blunt/Blunt

14 cm  
Cutting edge: 30 mm

No. 14131-14



**Metzenbaum Baby**



80% of actual size

**Tungsten Carbide Metzenbaum Fino**

**TUNGSTEN  
CARBIDE**

For more information see page 203.



80% of actual size



Straight  
Blunt/Blunt

13 cm  
Cutting edge: 30 mm

No. 14018-13



Curved  
Blunt/Blunt

13 cm  
30 mm

No. 14019-13

14,5 cm  
Cutting edge: 35 mm

No. 14018-14

14,5 cm  
35 mm

No. 14019-14

18 cm  
Cutting edge: 40 mm

No. 14018-18

18 cm  
40 mm

No. 14019-18



Straight  
Blunt/Blunt  
Ultra fine tips

14,5 cm  
35 mm

No. 14508-15



Straight  
Blunt/Blunt

14,5 cm  
35 mm

No. 14518-14



Curved  
Blunt/Blunt  
Ultra fine tips

14,5 cm  
35 mm

No. 14509-15



Curved  
Blunt/Blunt

14,5 cm  
35 mm

No. 14519-14

18 cm  
40 mm

No. 14518-18

18 cm  
40 mm

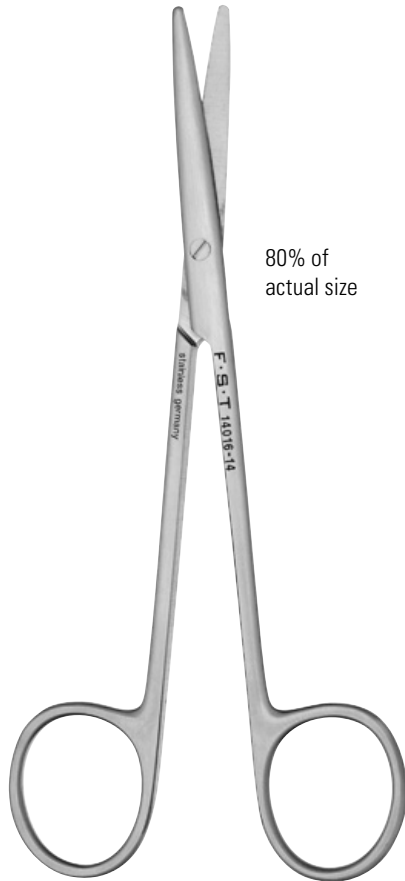
No. 14519-18

**Metzenbaum**

**ToughCut® Metzenbaum**



For more information  
see page 203.



80% of  
actual size



80% of  
actual size



Straight  
Sharp/Blunt

14,5 cm  
Cutting edge: 30 mm

No. 14024-14



Straight  
Blunt/Blunt

14,5 cm  
Cutting edge: 30 mm

No. 14016-14



Curved  
Blunt/Blunt

14,5 cm  
Cutting edge: 30 mm

No. 14017-14

18 cm  
Cutting edge: 35 mm

No. 14016-18

18 cm  
Cutting edge: 35 mm

No. 14017-18



Straight  
Blunt/Blunt

14,5 cm  
Cutting edge: 30 mm

No. 14116-14



Curved  
Blunt/Blunt

14,5 cm  
Cutting edge: 30 mm

No. 14117-14

18 cm  
Cutting edge: 35 mm

No. 14116-18

18 cm  
Cutting edge: 35 mm

No. 14117-18

Mayo

ToughCut® Mayo

Tungsten Carbide Mayo



For more information see page 203.



For more information see page 203.



14512-15 & 14512-17  
For more information see page 203.



80% of actual size



80% of actual size



80% of actual size



Straight  
Blunt/Blunt

Curved  
Blunt/Blunt

15 cm  
Cutting edge: 40 mm

15 cm  
40 mm

No. 14010-15

No. 14011-15

17 cm  
Cutting edge: 45 mm

17 cm  
45 mm

No. 14010-17

No. 14011-17



Straight  
Blunt/Blunt

Curved  
Blunt/Blunt

15 cm  
40 mm

15 cm  
40 mm

No. 14110-15

No. 14111-15

17 cm  
45 mm

17 cm  
45 mm

No. 14110-17

No. 14111-17



Straight  
Blunt/Blunt

Curved  
Blunt/Blunt

Straight  
Blunt/Blunt

15 cm  
40 mm

15 cm  
40 mm

15 cm  
40 mm

No. 14510-15

No. 14511-15

No. 14512-15

17 cm  
45 mm

17 cm  
45 mm

17 cm  
45 mm

No. 14510-17

No. 14511-17

No. 14512-17

**Mayo-Stille**



80% of actual size



Straight  
Blunt/Blunt

15 cm  
Cutting edge: 40 mm

No. 14012-15



Curved  
Blunt/Blunt

15 cm  
Cutting edge: 40 mm

No. 14013-15

17 cm  
Cutting edge: 45 mm

No. 14012-17

17 cm  
Cutting edge: 45 mm

No. 14013-17

**Mayo-Noble**



80% of actual size



Straight  
Blunt/Blunt

16,5 cm  
Cutting edge: 45 mm

No. 14014-17



Curved  
Blunt/Blunt

16,5 cm  
Cutting edge: 45 mm

No. 14015-17

**Decapitation Scissors**

Stop guard at tips to prevent slippage.



70% of actual size



Straight  
Blunt/Blunt

21 cm  
Cutting edge: 55 mm

No. 14200-21

**Friedman-Pearson**

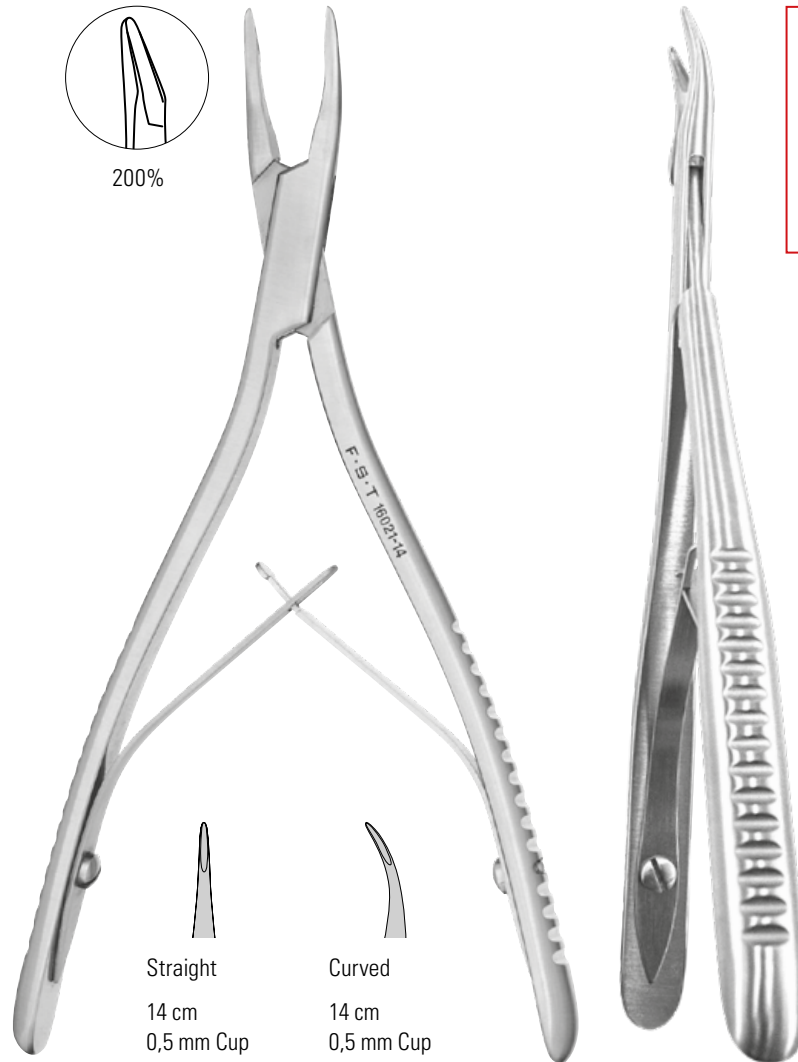
This popular, fine-tipped rongeur is suited for delicate work. The fine-cupped jaws have been designed with a longer and slimmer approach for better visibility.



For more information see page 38.



200%



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



Straight

14 cm  
0,5 mm Cup

No. 16220-14



Curved

14 cm  
0,5 mm Cup

No. 16221-14

14 cm  
0,7 mm Cup

No. 16120-14

14 cm  
0,7 mm Cup

No. 16121-14

14 cm  
1 mm Cup

No. 16020-14

14 cm  
1 mm Cup

No. 16021-14

**Pearson**



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



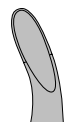
**Luer**

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



	
Slightly Curved	Sharply Curved
17 cm	17 cm
1,2 mm Cup	1,2 mm Cup
No. 16015-17	No. 16016-17




Curved
15 cm
4 mm Cup
No. 16001-15



### Precision that makes a mark.

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

For example, our Friedman-Pearson rongeurs with tip diameters of 0.5 or 0.7 mm, both are unique in the world. Also, our spring scissors have established themselves in the research industry and are second to none in terms of fineness.

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



**Baby-Beyer**


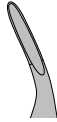
Double-action rongeur with strong jaws helps relieve hand strain.

**Beyer**

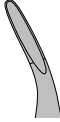
Double-action rongeur with strong jaws helps relieve hand strain.

**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	Curved
15 cm	15 cm
2 mm Cup	2 mm Cup
No. 16023-15	No. 16022-15




Curved
18 cm
2,5 mm Cup
No. 16002-18

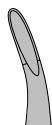
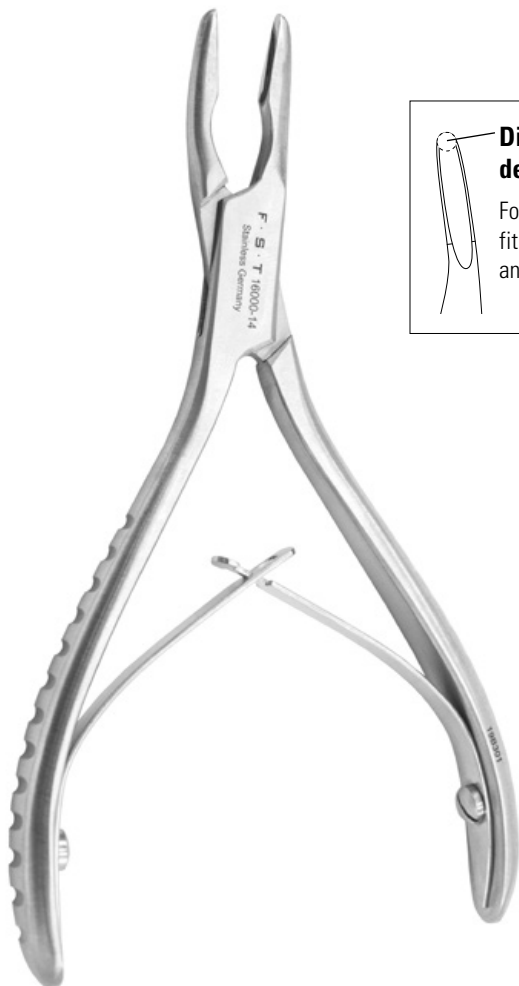


**Friedman**

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.

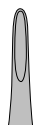
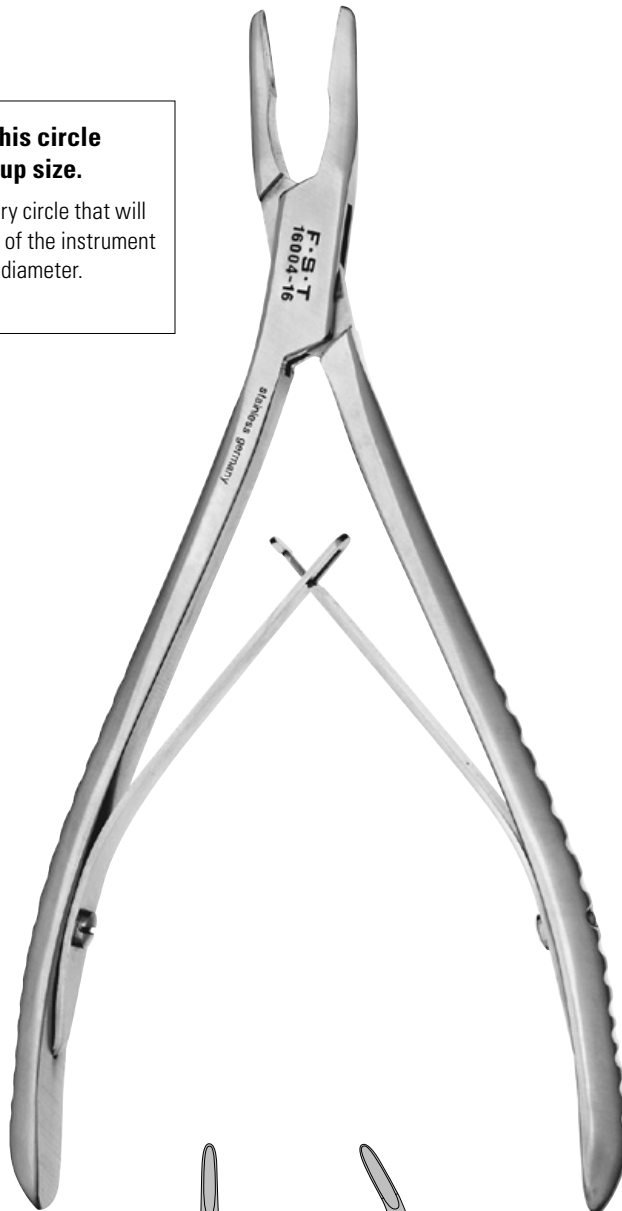
**Lempert**

Extra fine jaws.



Curved  
13 cm  
2,5 mm Cup  
No. 16000-14

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



Straight  
16 cm  
2,5 mm Cup  
No. 16004-16



Curved  
16 cm  
2,5 mm Cup  
No. 16005-16

**Bone Trimmers**

Curved

14 cm

Cutting edge: 8 mm

No. 16109-14

**Cartilage Cutter**

Round cutting blades for tissue, cartilage and soft bone.



Curved

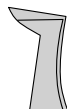
14 cm

Cutting edge: 9 mm

No. 16107-14

**Dumont #15a Bone Cutter**

Cutting edge on both outside and inside bevel. Cuts suture, cartilage, bone and steel wire to 0,06 mm, and copper wire to 0,15 mm.



11,5 cm  
Cutting edge: 10 mm  
Jaw opening: 2,5 mm  
Hard carbon steel

No. 11215-01

**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.



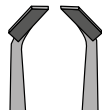
11,5 cm  
Cutting edge: 6 mm  
Jaw opening: 2,5 mm  
Epoxy coated carbon steel

No. 11215-02

**Tungsten Carbide Bone Cutter**

**TUNGSTEN  
CARBIDE**

For more information  
see page 203.



Angled

11,5 cm

Cutting edge: 10 mm

Stainless Steel handle with  
Tungsten Carbide Tips

No. 11515-02

**Micro Bone Cutter**



Angled 25°

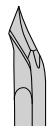
13 cm

Cutting edge: 5 mm

Rolling Bearing Steel handle  
with TPE Grip

No. 16103-11

**Bone Nipper**



Angled  
11 cm  
Cutting edge: 5 mm  
No. 16102-11

**Offset Bone Nipper**

Strong jaws for cutting tough cartilage.



Angled  
10 cm  
Cutting edge: 7 mm  
No. 16101-10

**Malleus Nipper**

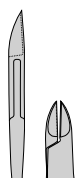
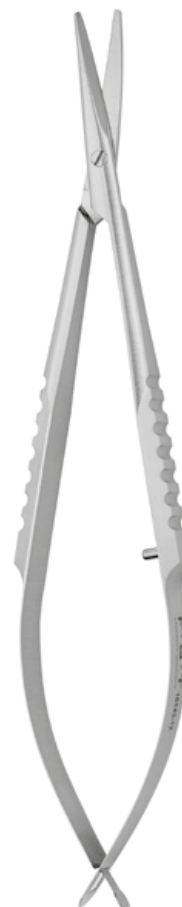


**Bone Cutting Spring Scissors**



**Delicate Bone Cutting Spring Scissors**

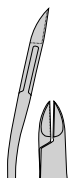
Slim, strong blades for cutting fine bones and tissues.



Straight

11 cm  
Cutting edge: 9 mm

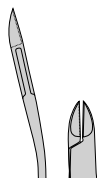
No. 16140-11



Angled down

11 cm  
Cutting edge: 9 mm

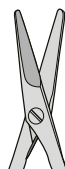
No. 16141-11



Angled up

11 cm  
Cutting edge: 9 mm

No. 16142-11



Straight

13 cm  
Cutting edge: 12 mm

No. 16144-13



Curved

12 cm  
Cutting edge: 12 mm

No. 16143-12

**Littauer Bone Cutter**



Straight  
11 cm  
Cutting edge: 15 mm  
No. 16152-11



Straight  
12,5 cm  
Cutting edge: 17 mm  
No. 16152-12



Straight  
15 cm  
Cutting edge: 19 mm  
No. 16152-15

**Beebee Bone Scissors**

Very strong jaws with sharp points.

MOST POPULAR



Straight  
10 cm  
Cutting edge: 15 mm  
No. 16044-10

**Tungsten Carbide Bone Scissors**

Strong heavy blades for cutting bone.

TUNGSTEN CARBIDE

SERRATED

For more information see page 203.



Straight  
12,5 cm  
Cutting edge: 15 mm  
No. 16030-12



Straight  
16 cm  
Cutting edge: 15 mm  
No. 16030-16

**Boehler**

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



Angled up 10°

15 cm

Cutting edge: 18 mm

No. 16130-15

**Skull Flap Cutter**

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



Angled up 15°

14 cm

Cutting edge: 10 mm

No. 16050-15



**Cleveland Cutter**

**Liston**

Gross anatomy bone cutter.

CUTTERS



Slightly angled  
15 cm  
Cutting edge: 14 mm  
No. 16106-14

17 cm  
Cutting edge: 15 mm  
No. 16105-16



Straight  
14 cm  
Cutting edge: 20 mm  
No. 16104-14

20 cm  
Cutting edge: 30 mm  
No. 16104-19

**Bone Pliers**

To peel back skull flaps.



Straight  
15,5 cm  
Flat surface  
No. 16025-14

**Bone Shears**



60% of actual size

Curved  
24 cm  
Cutting edge: 6,5 cm  
No. 16150-24

**Bone Forceps**

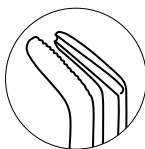
Strong cross-serrated tips for bone crushing and removal.



Angled  
11,5 cm  
Tip Ø: 1 mm  
Cross serrated  
No. 16060-11

**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, minution pins and bone screws.



200%

Angled  
14 cm  
Polished stainless steel  
No. 26100-00

**Miniature Self-Tapping Bone Screws**

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



4 mm  
Shaft diameter: 0,86 mm  
Pkg. of 100 screws  
No. 19010-10

Pkg. of 10 screws  
No. 19010-11

For pre-drilling use our  
0,7 mm burs, see page 162.

4,8 mm  
Shaft diameter: 1,19 mm  
Pkg. of 100 screws  
No. 19010-00

Pkg. of 10 screws  
No. 19010-01

For pre-drilling use our  
0,9 mm burs, see page 162.

**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

**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**

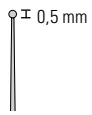


**Dissecting Chisel**

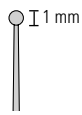


CURETTES & CHISELS

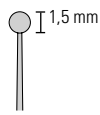
Serrations on cutting edge



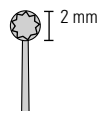
13 cm  
No. 10080-05



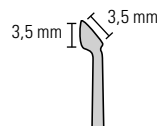
13 cm  
No. 10081-10



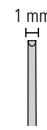
13 cm  
No. 10082-15



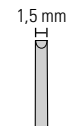
12,5 cm  
No. 10083-20



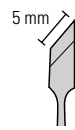
16,5 cm  
No. 10075-16



16 cm  
No. 10096-16



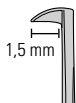
16 cm  
No. 10097-16



12,5 cm  
No. 10095-12

**Von Graefe Knife**

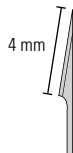
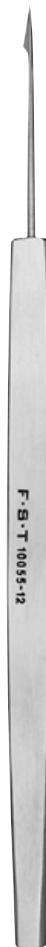
Used for cutting dura.



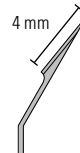
Angled 90°  
13 cm  
Cutting edge: 1,5 mm  
No. 10059-13

**Cataract Knife**

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

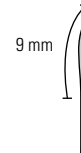


Straight  
12,5 cm  
Cutting edge: 4 mm  
No. 10055-12



Angled 30°  
12,5 cm  
Cutting edge: 4 mm  
No. 10056-12

**Sichel**



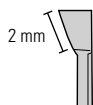
Curved  
12 cm  
Cutting edge: 9 mm  
No. 10073-14

**Micro Knife**



Straight  
13 cm  
Cutting edge: 28 mm  
No. 10370-13

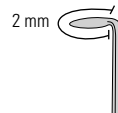
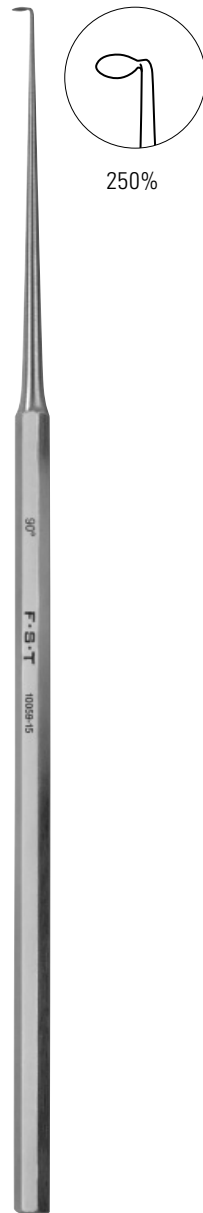
**Micro Knife Side Cut**



Side blade 20°  
15 cm  
Cutting edge: 2 mm  
No. 10058-15

**Circle Knife**

Sharp cutting edge around tip.



Angled 90°  
16 cm  
Cutting edge: 2 mm  
No. 10059-15

**Gross Anatomy Knives**

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



40% of actual size

**Dissection knife**

28 cm  
Cutting edge: 13 cm  
No. 10157-13

30 cm  
Cutting edge: 15 cm  
No. 10157-15

33 cm  
Cutting edge: 18 cm  
No. 10157-18



40% of actual size

**Brain sectioning knife**

45 cm  
Cutting edge: 30 cm  
No. 10152-30

### Obsidian Stone Age Scalpels

For applications where extremely fine cuts are required or for studies where trace metals from ordinary scalpel blades cannot be tolerated. These ultra fine cutting edges have been used in human surgical procedures where objectionable scar tissue results from the use of standard scalpels.

The blade is made from obsidian—a type of volcanic glass—which allows a much finer blade than is possible with the conventional steel blade. In some cases this makes the relatively inexpensive obsidian scalpel a suitable substitute for an expensive diamond knife.

Patterned after “stone age” knives which first made their appearance about 18.000 years ago, these modern versions utilize hard wood and plastic dowels for handles. Plastic dowels are made of polyoxymethylene.

**Cautionary note:**  
 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  
**Not autoclavable**

Straight  
 Approximate blade length: 6 mm  
 No. 10110-01

Straight  
 Approximate blade length: 12 mm  
 No. 10110-03



150%

Plastic Dowel  
**Autoclavable**

Straight  
 Approximate blade length: 6 mm  
 No. 10110-05



150%

Plastic Dowel  
**Autoclavable**

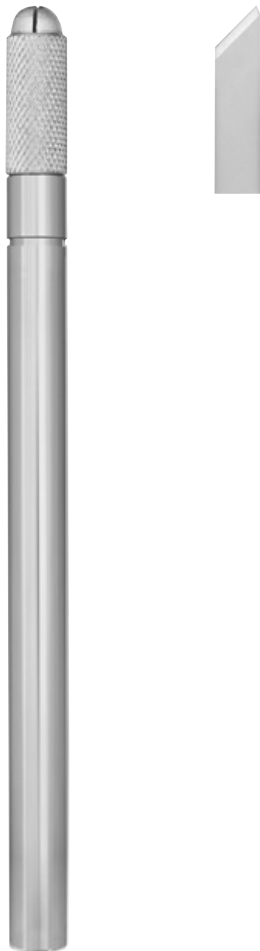
Angled  
 Approximate blade length: 6 mm  
 No. 10110-07



**Ceramic Blades**

Advantages:

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



**Ceramic Blade**

45° Cutting Edge

33 x 6 x 0,5 mm  
Cutting edge: 8 mm  
Pkg. of 5 blades

No. 10025-45

**Aluminum Alloyed Handle**

12,5 cm

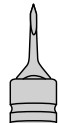
No. 10025-50

**Diamond Knives**

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

**Cautionary note:**

This blade is extremely fragile and vulnerable to lateral pressure.



Cutting angle: 30°

12 cm  
Cutting edge: 1 mm  
Tip thickness: 0,15 mm

No. 10100-30



Cutting angle: 45°

12 cm  
Cutting edge: 1 mm  
Tip thickness: 0,15 mm

No. 10100-45

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

**Blade Holders and Breakers**



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



9 cm  
Jaw width: 4 mm  
Surface with concave and convex jaws  
Handle diameter: 5,5 mm  
No. 10053-09

13 cm  
Jaw width: 4 mm  
Surface with concave and convex jaws  
Handle diameter: 8 mm  
No. 10053-13

**Breakable Carbon Steel Blades**

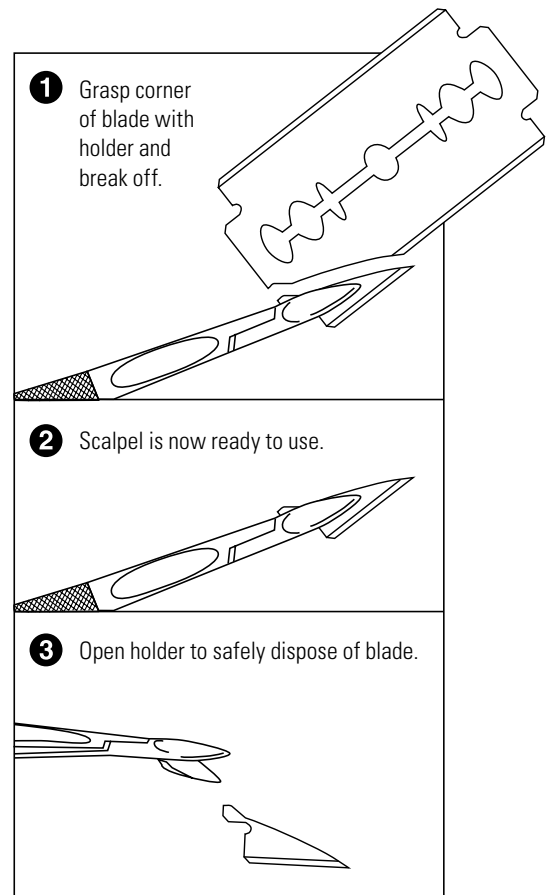
These special, high carbon content blades are the only blades that will break cleanly.  
**Not autoclavable.**



Blade thickness: 0,1 mm  
Box of 10 blades  
No. 10050-00

**Create Your Own Blade**

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



**Carbon Steel Scalpel**

Cold forged from carbon steel and sharpened to eliminate tissue distortion and blade drag. 12,5 cm plastic handle with slip-proof grip. **Sterile.**

**MOST POPULAR**

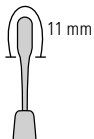
10316-14  
10315-12



Cutting angle: 22,5°  
13,5 cm  
Cutting edge: 4,5 mm  
Tip thickness: 0,15 mm  
No. 10316-14



Cutting angle: 15°  
13 cm  
Cutting edge: 5 mm  
Tip thickness: 0,15 mm  
No. 10315-12



Crescent blade  
14 cm  
Cutting edge: 11 mm  
Tip thickness: 0,20 mm  
No. 10317-14



Needle blade  
14,5 cm  
Cutting edge: 4 mm  
Tip thickness: 0,20 mm  
No. 10318-14

**Interchangeable Carbon Steel Blades**

**NOT AUTOCLAVABLE**



Handle for Interchangeable Blades

9,5 cm  
No. 10035-00  
12,5 cm  
No. 10035-12



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



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



Small flat blade  
Carbon steel  
Cutting edge: 1,5 mm  
Pkg. of 5 blades  
No. 10035-05



Large flat blade  
Carbon steel  
Cutting edge: 2,75 mm  
Pkg. of 5 blades  
No. 10035-10



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



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

**Scalpel Handle #4 with Silicone**

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



13,5 cm  
No. 10009-13

**Standard Scalpel Handle #4 Solid**

Especially suitable for large dissections.



13 cm  
No. 10004-13

**Blades for #4 Scalpel Handle**

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



Box of 100 blades  
No. 10020-00



Box of 100 blades  
No. 10021-00



Box of 100 blades  
No. 10022-00



Box of 100 blades  
No. 10023-00

#3 Standard

MOST POPULAR



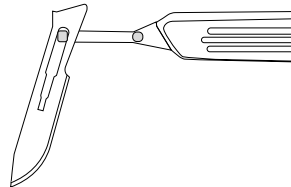
12 cm  
No. 10003-12

#3 Secure

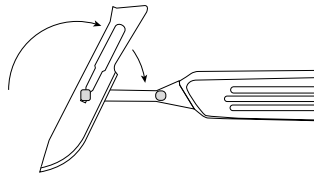
A safety lock holds the blade securely, and allows simple and safe blade attachment and removal.



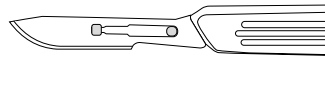
1 Slide blade onto front pin of the handle.



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



3 Scalpel is ready to use.



12 cm  
No. 10003-13

Blades for #3 and #7 Scalpel Handles

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

**NOT** AUTOCLAVABLE



Box of 100 blades  
No. 10010-00



Box of 100 blades  
No. 10011-00



Box of 100 blades  
No. 10012-00



Box of 100 blades  
No. 10015-00

**Short Scalpel Handle #7**



12 cm  
No. 10007-12

**Standard Scalpel Handle #7**



16,5 cm  
No. 10007-16

**Scalpel Blade Remover**

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



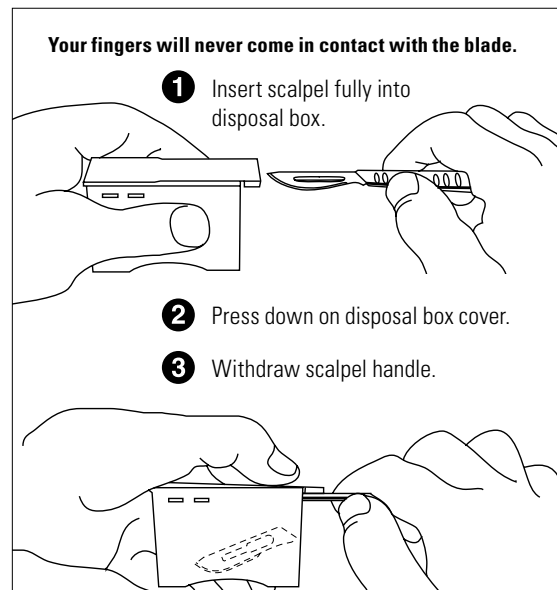
6,5 cm  
No. 10002-00

**Scalpel Blade 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.



7,5 x 5 x 2,5 cm  
Capacity approximately 80 blades  
Carton of 10 boxes  
No. 10002-50



**Gross Anatomy Blade and Handle**



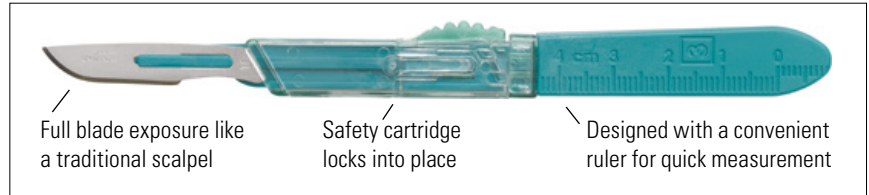
7,5 cm  
Box of 100 blades  
No. 10060-00



13 cm  
No. 10060-13

**Disposable Safety Scalpels**

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



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



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



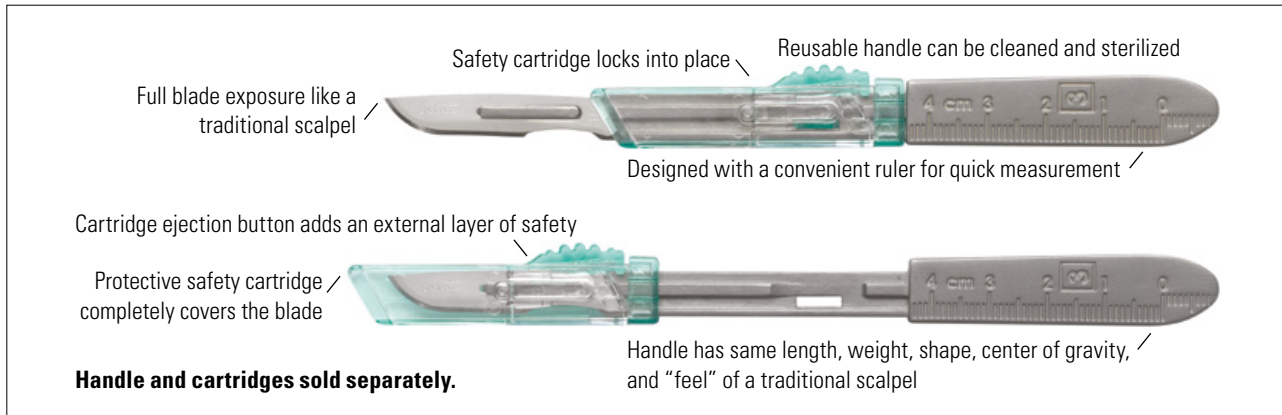
#15 scalpels  
Pkg. of 10  
No. 10000-15



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



12,5 cm  
Teflon coated stainless steel  
No. 10006-12

#### Safety Scalpel Blade Cartridges



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

#10 blades	#11 blades	#15 blades
Pkg. of 10	Pkg. of 10	Pkg. of 10
No. 10010-10	No. 10011-10	No. 10015-10

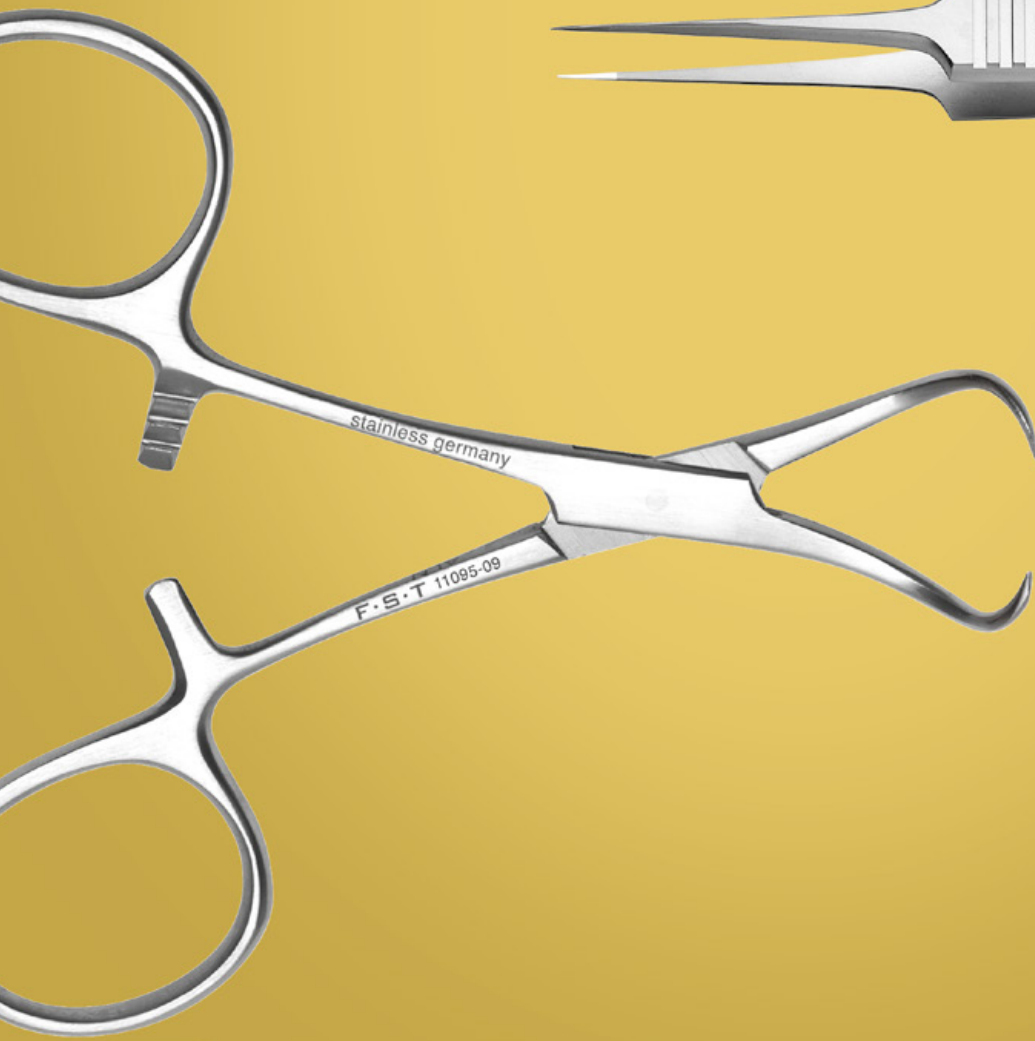




## Forceps & Hemostats

Dumont	Pages	65 – 74
Fine	Pages	75 – 84
Moria	Page	78
S&T	Pages	79, 81
Standard	Pages	85 – 95
Hemostats	Pages	96 – 101

*See page 209 for alloy and additional information.*



### Dumont #5SF

The finest tips ever produced by Dumont.



Super fine tip

11 cm  
Inox  
0,025 x 0,005 mm

No. 11252-00

### Dumont #5 Fine Tips

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

MOST  
POPULAR



Biology tip

11 cm  
Inox  
0,05 x 0,01 mm

No. 11254-20

### Dumont #5 Ceramic Coated

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

CERAMIC  
COATED

For more information about our ceramic instruments please visit page 203.



Biology tip

11 cm  
Ceramic coated inox  
0,05 x 0,01 mm

No. 11252-50

### Dumont #5C0

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



Biology tip

11 cm  
Dumostar  
0,05 x 0,01 mm

No. 11295-20

FORCEPS

For information on Dumont alloys and tip styles, see page 209.

### 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

For information on Dumont alloys and tip styles, see page 209.



Medical #5

Straight

11 cm  
Inox  
0,10 x 0,06 mm

No. 11253-20



Medical #5A

Off-center

11,5 cm  
Inox  
0,13 x 0,08 mm

No. 11253-21



Medical #7S

Short curve

12 cm  
Inox  
0,17 x 0,10 mm

No. 11273-22



Medical #7

Curved

11,5 cm  
Inox  
0,17 x 0,10 mm

No. 11273-20



Medical #5/45

Angled 45°

11 cm  
Inox  
0,10 x 0,06 mm

No. 11253-25



Medical #5/90

Angled 90°

11 cm  
Inox  
0,10 x 0,06 mm

No. 11253-29

### Dumont #55

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



Biology tip  
11 cm  
Inox  
0,05 x 0,02 mm  
No. 11255-20

11 cm  
Dumostar  
0,05 x 0,02 mm  
No. 11295-51

### Dumont #5 Mirror Finish Forceps

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



Standard tip  
11 cm  
Inox  
0,10 x 0,06 mm  
No. 11251-23



Biology tip  
11 cm  
Inox  
0,05 x 0,02 mm  
No. 11252-23

### Dumont #5

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

MOST POPULAR

11251-20  
11252-20

335°C NOT AUTOCLAVABLE

11251-10

TITANIUM

11252-40  
For more information see page 203.



Standard tip  
11 cm  
Inox  
0,10 x 0,06 mm  
No. 11251-20

Dumoxel  
No. 11251-30

Dumostar  
No. 11295-00

11 cm  
Carbon  
0,08 x 0,04 mm  
No. 11251-10



Biology tip  
11 cm  
Inox  
0,05 x 0,02 mm  
No. 11252-20

Dumoxel  
No. 11252-30

Dumostar  
No. 11295-10

Titanium  
No. 11252-40

For information on Dumont alloys and tip styles, see page 209.

**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**

FORCEPS

For information on Dumont alloys and tip styles, see page 209.



Side View



Standard tip

12 cm  
Inox  
0,10 x 0,06 mm

No. 11251-21



Biology tip

12 cm  
Inox  
0,05 x 0,02 mm

No. 11252-21



Standard tip

15 cm  
Inox  
0,10 x 0,06 mm

No. 11253-10

### Dumont #L5

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



Standard tip  
11 cm  
Inox  
0,10 x 0,06 mm  
  
No. 11253-27

### Dumont #5 Teflon® Coated

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



Standard tip  
11 cm  
Teflon coated inox  
0,10 x 0,06 mm  
  
No. 11626-11

### Dumont #5/45

45° tips for improved visibility and control.

MOST POPULAR



Standard tip  
11 cm  
Dumoxel  
0,10 x 0,06 mm  
  
No. 11251-35

### Dumont #5/45 Cover Slip Forceps

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



300%

For information on Dumont alloys and tip styles, see page 209.



1 mm from tip to bend  
11,5 cm  
Dumoxel  
Upper tip: 0,10 x 0,08 mm  
Lower tip: 0,10 x 0,02 mm  
  
No. 11251-33

FORCEPS

**Dumont #3**

Tapered and sturdy shanks.

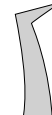
**Dumont #3c**

**Dumont #6**

Sharply angled tips for access to difficult areas.

FORCEPS

For information on Dumont alloys and tip styles, see page 209.



Standard tip

Standard tip

Standard tip

Standard tip

12 cm

12 cm

11 cm

11,5 cm

Dumoxel

Dumostar

Inox

Inox

0,17 x 0,10 mm

0,17 x 0,10 mm

0,17 x 0,10 mm

0,17 x 0,10 mm

No. 11231-30

No. 11293-00

No. 11231-20

No. 11260-20

### Dumont #7 Fine Tips

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



Biology tip  
11 cm  
Inox  
0,07 x 0,03 mm  
No. 11274-20

### Dumont #7

•TITANIUM•

11272-40  
For more information see page 203.



Biology tip  
11,5 cm  
Dumoxel  
0,07 x 0,04 mm  
No. 11272-30



Standard tip  
Dumoxel  
No. 11271-30  
Dumostar  
No. 11297-10  
Titanium  
No. 11272-40

### Dumont #7 Ceramic Coated

CERAMIC  
COATED

For more information about our ceramic instruments please visit page 203.



Biology tip  
11 cm  
Ceramic coated inox  
0,07 x 0,04 mm  
No. 11272-50

### Dumont #7B

SERRATED



Standard tip  
11 cm  
Inox  
0,17 x 0,10 mm  
No. 11270-20

For information on Dumont alloys and tip styles, see page 209.

FORCEPS



**Dumont #4**

Similar to #5, but with broader shanks.



Standard tip  
11 cm  
Dumoxel  
0,13 x 0,08 mm  
No. 11241-30

Dumostar  
No. 11294-00



Biology tip  
11 cm  
Dumoxel  
0,06 x 0,04 mm  
No. 11242-40

**Dumont #2 Laminectomy Forceps**

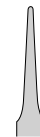
These forceps can be used to break off delicate bone during mouse laminectomies, as well as fine skull bone removal.



Standard tip  
12 cm  
Inox  
0,40 x 0,02 mm  
No. 11223-20

**Dumont #2AP Epoxy Coated**

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



Standard tip  
12 cm  
Epoxy coated Inox  
Tip width: 1,5 mm  
No. 11220-21

For information on Dumont alloys and tip styles, see page 209.

**Dumont AA**

**Dumont AA Epoxy Coated**

Slip-proof acid and electric shock resistant epoxy coating covering 17,5 mm from the tips.

**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

Standard tip

Standard tip

Angled 45°

Biology tip

12,5 cm

12,5 cm

13,5 cm

13,5 cm

13,5 cm

Inox

Epoxy coated inox

Inox

Inox

Dumoxel

0,4 x 0,2 mm

0,4 x 0,2 mm

0,20 x 0,12 mm

0,20 x 0,12 mm

0,10 x 0,06 mm

No. 11210-20

No. 11210-10

No. 11203-23

No. 11203-25

No. 11200-33

For information on Dumont alloys and tip styles, see page 209.

Dumont Mini Forceps

Dumont #5AC

FORCEPS

For information on Dumont alloys and tip styles, see page 209.



Style 3

7 cm  
Inox  
0,12 x 0,07 mm

No. 11200-10



Style 4

7 cm  
Inox  
0,14 x 0,06 mm

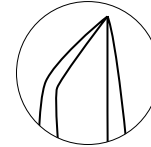
No. 11200-12



Style 5

8 cm  
Inox  
0,09 x 0,05 mm

No. 11200-14



300%



Biology Tip  
Type #5 Anti-Capillary

11,5 cm  
Inox  
0,07 x 0,02 mm

No. 11258-20

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



### Gold Plated Forceps

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



Straight

11,5 cm  
0,1 x 0,06 mm

Gold Plated  
Stainless Steel

No. 11915-11



Curved

11,5 cm  
0,2 x 0,1 mm

Gold Plated  
Stainless Steel

No. 11917-12



Angled 30°

11,5 cm  
0,1 x 0,06 mm

Gold Plated  
Stainless Steel

No. 11911-11

### Diamond Coated Forceps

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



Straight

14 cm  
0,15 x 0,1 mm

Diamond Coated  
Stainless Steel

No. 11990-14



Angled 30°

14 cm  
0,15 x 0,1 mm

Diamond Coated  
Stainless Steel

No. 11991-14



Straight

12 cm  
1,65 x 0,05 mm

Diamond Coated  
Stainless Steel

No. 11992-12

**Mirror Finish Broad Shanks**

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



Straight  
13 cm  
0,3 x 0,15 mm  
No. 11923-13

**Forceps with Replaceable Tips**

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



Straight  
13 cm  
0,5 x 0,5 mm  
Stainless Steel body with replaceable plastic tips  
No. 11980-13



Pkg. of 2 tips and 3 screws  
Replacement plastic tips  
Straight, strong  
4 cm  
0,5 mm  
No. 11988-01

Pkg. of 2 tips and 3 screws  
Replacement plastic tips  
Straight, very fine  
4 cm  
0,5 mm  
No. 11988-02

Pkg. of 2 tips and 3 screws  
Replacement plastic tips  
Curved  
4 cm  
0,5 mm  
No. 11988-03

### Fine Forceps Broad Shanks

Straight forceps with sturdy coarse tips.



12 cm  
0,2 x 0,12 mm

No. 11445-12

### Fine Forceps Mirror Finish

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



11 cm  
0,10 x 0,06 mm

No. 11412-11



11 cm  
0,05 x 0,02 mm

No. 11413-11

### Fine Forceps Self-Closing

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



11,5 cm  
0,08 x 0,04 mm

No. 11480-11



11 cm  
0,10 x 0,06 mm

No. 11485-11



11,5 cm  
0,20 x 0,12 mm

No. 11487-11

### Moria Ultra Fine Forceps

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

### Moria Iris Forceps

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

FORCEPS



Moria MC40

Moria MC40/B

Moria 9980

Moria 9987

Moria MC32/B

Moria MC31/B



Smooth  
Blunt

Smooth  
Blunt

10 cm  
Tip width: 0,5 mm

10 cm  
Tip width: 0,5 mm

No. 11373-22

No. 11373-12

Moria MC32

Moria MC31



Microserrated

Microserrated

No. 11370-32

No. 11370-31

Straight

Curved

Straight

Curved

11 cm

11 cm

13 cm

13 cm

No. 11370-40

No. 11370-42

No. 11399-80

No. 11399-87

**Fine Forceps**



Straight

11 cm  
0,3 x 0,25 mm

No. 00108-11



Angled 45°

11 cm  
0,3 x 0,25 mm

No. 00109-11

**SuperGrip Forceps**

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



300%

The gripping surface is similar to a match head.



Straight

11 cm  
0,3 x 0,25 mm

No. 00632-11



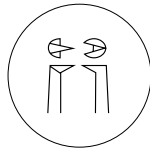
Angled 45°

11 cm  
0,3 x 0,25 mm

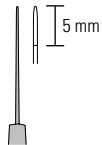
No. 00649-11



**Bonn**



20x magnification



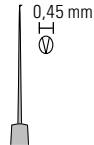
Smooth

7 cm

Tip width: 0,3 mm

Tying Platform: 5 mm

No. 11083-07



1x2 teeth

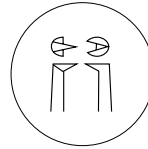
7 cm

Tip width: 0,45 mm

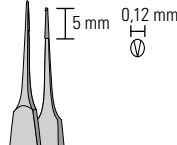
Teeth width: 0,1 mm

No. 11084-07

**Mirror Finish Bonn Forceps**



20x magnification



Straight

1x2 teeth

10 cm

Tip width: 0,12 mm

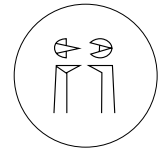
Tying Platform: 5 mm

Partly polished

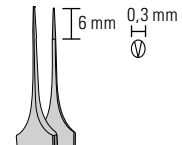
No. 11090-10

**Mirror Finish Suture Tying Forceps with Teeth**

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



20x magnification



Straight

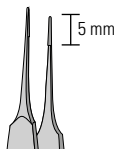
9 cm

Tip width: 0,3 mm

Platform with 1x2 teeth

No. 11090-09

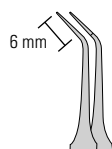
### Mirror Finish Suture Tying Forceps



Straight  
10 cm  
Tip diameter: 0,3 mm  
Tying Platform: 5 mm  
Partly polished  
No. 11093-10

### McPherson Forceps

MOST POPULAR

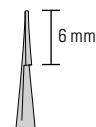
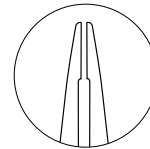


Angled 45°  
Smooth  
9 cm  
Tip width: 0,4 mm  
Tying Platform: 6 mm  
No. 11063-07

### Suture Tying Forceps

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

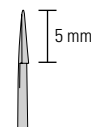
S&T®



13,5 cm  
Tip diameter: 0,3 mm  
Tying platform: 6 mm  
No. 00272-13

### Suture Tying Forceps

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

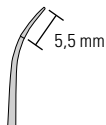


10 cm  
Tip diameter: 0,5 mm  
Tying platform: 5 mm  
No. 18025-10

FORCEPS

**Round Handled Suture Tying Forceps**

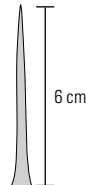
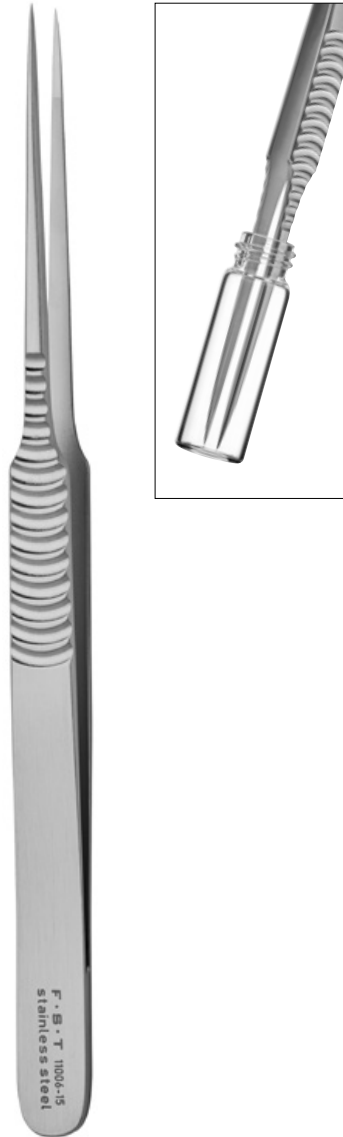
Round handles allow easy fingertip adjustments.



10,5 cm  
Tip diameter: 0,35 mm  
Tying platform: 5,5 mm  
No. 18026-10

**Vial Forceps**

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



15 cm  
Tip diameter: 0,5 mm  
No. 11006-15

**Vitro Grasping Forceps**



14 cm  
Serrated  
Tip diameter: 0,7 mm  
No. 11900-14

**Graefe Forceps**



Straight  
Serrated

7 cm  
Tip width: 0,6 mm

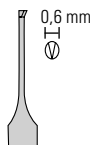
No. 11064-07



Curved  
Serrated

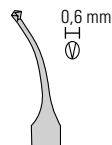
7 cm  
Tip width: 0,6 mm

No. 11065-07



Straight  
1x2 teeth

No. 11066-07

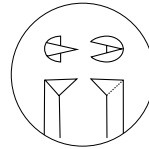


Curved  
1x2 teeth

No. 11067-07

**Bishop-Harman**

Extra light, fenestrated handles ensure a good grip.



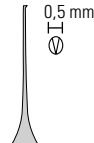
10x magnification



Serrated

8,5 cm  
Tip width: 0,5 mm

No. 11069-08



1x2 teeth

8,5 cm  
Tip width: 0,5 mm

No. 11070-08

**Octagon Forceps**

The octagon shaped grip provides a particularly secure finger hold.



Straight  
Serrated

9,5 cm  
Tip width: 0,8 mm

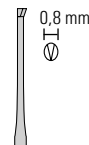
No. 11040-08



Curved  
Serrated

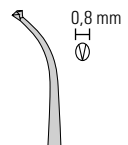
9,5 cm  
Tip width: 0,8 mm

No. 11041-08



Straight  
1x2 teeth

No. 11042-08



Curved  
1x2 teeth

No. 11043-08

Extra Fine Graefe Forceps

FORCEPS



80% of actual size



Serrated  
10 cm  
Tip width: 0,5 mm  
No. 11150-10



Serrated  
10 cm  
Tip width: 0,5 mm  
No. 11151-10



Serrated  
10 cm  
Tip width: 0,5 mm  
No. 11152-10



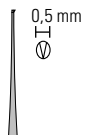
Smooth  
No. 11158-10



Smooth  
No. 11159-10



Smooth  
No. 11160-10



1x2 teeth  
No. 11153-10



1x2 teeth  
No. 11154-10



1x2 teeth  
No. 11155-10

Graefe Forceps

MOST POPULAR

11051-10  
11054-10

TITANIUM

11650-10 – 11652-10  
For more information see page 203.



Serrated  
Tip width: 0,8 mm  
No. 11050-10



Serrated  
Tip width: 0,8 mm  
No. 11051-10



Serrated  
Tip width: 0,8 mm  
No. 11052-10

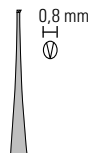


Serrated  
Tip width: 0,8 mm  
No. 11049-10

Titanium  
Tip width: 1,2 mm  
No. 11650-10

Titanium  
Tip width: 1,2 mm  
No. 11651-10

Titanium  
Tip width: 1,2 mm  
No. 11652-10



1x2 teeth  
Tip width: 0,8 mm  
No. 11053-10



1x2 teeth  
Tip width: 0,8 mm  
No. 11054-10



1x2 teeth  
Tip width: 0,8 mm  
No. 11055-10

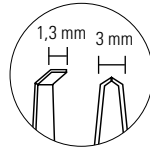
**Sliding Lock Forceps**



Smooth  
11 cm  
Tip width: 1 mm  
Slide lock  
No. 11062-10

**Episcleral Forceps**

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



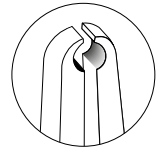
300%



10 cm  
Tip thickness: 0,2 mm  
Tip Dimension: 1,3 x 3 mm  
No. 11071-10

**Pierson Fixation Forceps**

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



1800%

Tissue retention hole of 0,3 mm behind tips.



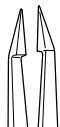
Straight  
13 cm  
Tip Dimension: 0,1 x 0,4 mm  
No. 18155-13

FORCEPS

**Plastic Forceps**

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

FORCEPS



Sharp  
Straight

11,5 cm  
0,40 x 0,25 mm

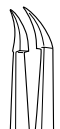
No. 11700-00



Blunt  
Straight

11,5 cm  
1,5 x 0,40 mm

No. 11700-03



Sharp  
Curved

11,5 cm  
0,30 x 0,20 mm

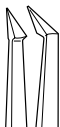
No. 11700-01



Blunt  
Curved

11,5 cm  
1,5 x 0,40 mm

No. 11700-04



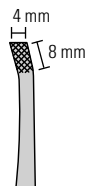
Sharp  
Angled 45°

11,5 cm  
0,30 x 0,20 mm

No. 11700-02

**Cross Action Forceps**

These tissue transport forceps have a gentle action.

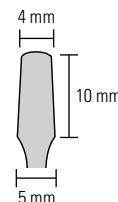


Cross serrated

10 cm  
Tip Dimension: 4 x 8 mm

No. 11075-00

**Cover Glass Forceps**



Straight

10,5 cm  
Tip Dimension:  
4 x 5 x 10 mm

No. 11074-02



Angled

10,5 cm  
Tip Dimension:  
4 x 5 x 10 mm

No. 11073-10

**Ring Forceps**

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



8,5 cm  
Inner Diameter: 1 mm  
Outer Diameter: 1,5 mm

No. 11101-09



9 cm  
Inner Diameter: 2,2 mm  
Outer Diameter: 3 mm

No. 11103-09



9 cm  
Inner Diameter: 4,8 mm  
Outer Diameter: 6 mm

No. 11106-09

**Circle Forceps**

Cupped forceps for atraumatic gripping of organs and tissues.



11,5 cm  
Tip diameter: 0,7 mm

No. 11072-11

**Live Insect Handling Forceps**

Very delicate.



Narrow  
10 cm

No. 26029-10



Wide  
10 cm

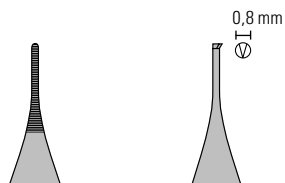
No. 26030-10

FORCEPS



**Micro-Adson**

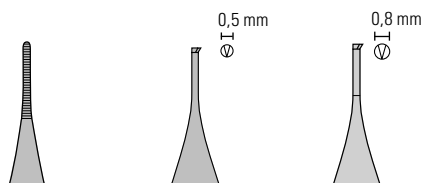
Our most delicate version of the popular Adson forceps.



Serrated	1x2 teeth
12 cm	12 cm
Tip width: 0,8 mm	0,8 mm
No. 11018-12	No. 11019-12

**Micro-Adson with Fenestrated Handle**

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



Serrated	1x2 teeth	1x2 teeth with 6 mm platform
12 cm	12 cm	12 cm
0,8 mm	0,5 mm	0,8 mm
No. 11020-12	No. 11032-12	No. 11022-12

**Adson**

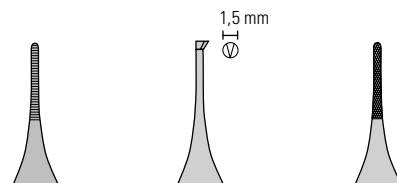
Wide, strong grip with narrow tips.

**MOST POPULAR**

11006-12  
11027-12

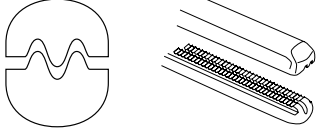
**TUNGSTEN CARBIDE**

11506-12  
For more information see page 203.



Serrated	1x2 teeth	Cross serrated tungsten carbide inlaid tip
12 cm	12 cm	12 cm
1,5 mm	1,5 mm	1,5 mm
No. 11006-12	No. 11027-12	No. 11506-12

**Adson DeBakey**

**Atraumatic DeBakey Serrations**

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

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

**Adson-Graefe**



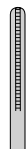
**Adson-Brown**



FORCEPS



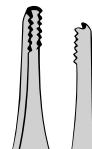
DeBakey serrations  
12,5 cm  
Tip width: 1,5 mm  
No. 11617-12



DeBakey serrations  
15 cm  
Tip width: 1,5 mm  
No. 11616-15



Fine sharp teeth  
12,5 cm  
Tip width: 4,5 mm  
No. 11030-12



Shark teeth  
12 cm  
Tip width: 1,4 mm  
No. 11627-12

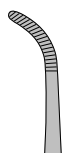
### Standard Pattern

Broad pattern with strong spring action.



Straight Serrated

Tip width (mm)	Length (cm)	Item
2,5	12	No. 11000-12
2,8	13	No. 11000-13
3,25	14,5	No. 11000-14
3,3	16	No. 11000-16
3,7	18	No. 11000-18
3,75	20	No. 11000-20
3,9	25	No. 11000-25
4	30	No. 11000-30



Curved Serrated

Tip width (mm)	Length (cm)	Item
2,5	12	No. 11001-12
2,8	13	No. 11001-13
3,25	14,5	No. 11001-14
3,3	16	No. 11001-16
3,7	18	No. 11001-18
3,75	20	No. 11001-20

### Narrow Pattern

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

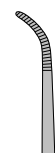
**•TITANIUM•**

11602-14  
For more information see page 203.



Straight Serrated

Tip width (mm)	Length (cm)	Item
2	12	No. 11002-12
2,15	13	No. 11002-13
2,25	14,5	No. 11002-14
2,25	14,5	No. 11602-14
2,35	16	No. 11002-16
2,4	18	No. 11002-18
2,75	20	No. 11002-20
3,2	25	No. 11002-25



Curved Serrated

Tip width (mm)	Length (cm)	Item
2	12	No. 11003-12
2,15	13	No. 11003-13
2,25	14,5	No. 11003-14
2,35	16	No. 11003-16
2,4	18	No. 11003-18
2,75	20	No. 11003-20

**Semken**

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

**•TITANIUM•**

11608-15  
For more information  
see page 203.



Straight  
Serrated

Tip width (mm)	Length (cm)	Item
1,3	13	No. 11008-13
1,5	15	No. 11008-15
1,5	15	No. 11608-15



Curved  
Serrated

Tip width (mm)	Length (cm)	Item
1,3	13	No. 11009-13
1,5	15	No. 11009-15

**Mouse Handling Forceps**

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



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

No. 11036-20



Replacement silicone tips  
Pkg of 2 tips

No. 11036-90

FORCEPS

Tissue Forceps



3 mm  
1 mm  
2 mm

Tissue Forceps

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

Straight  
Standard 1x2 teeth  
12 cm

No. 11021-12  
14,5 cm  
No. 11021-14

Straight  
Standard 2x3 teeth  
14,5 cm  
No. 11022-14

Straight  
Narrow 1x2 teeth  
10 cm  
No. 11023-10

Straight  
Narrow 1x2 teeth  
14,5 cm  
No. 11023-14

12 cm  
No. 11023-12

15,5 cm  
No. 11023-15

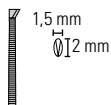
15,5 cm  
No. 11021-15

15,5 cm  
No. 11022-15



Curved  
Narrow 1x2 teeth  
14 cm  
No. 11029-14

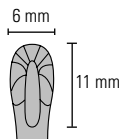
**Gillies**



Cross-Serrated  
1x2 teeth  
15 cm  
Tip Dimension: 1,5 x 2 mm  
No. 11028-15

**Russian**

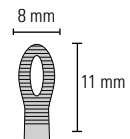
Special cupped pattern for superior grip.



15 cm  
Tip Dimension: 6 x 11 mm  
No. 11026-15

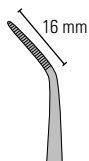
**Organ Holding Forceps**

With limit screw to prevent excessive applied pressure.



Serrated  
14,5 cm  
Tip Dimension: 8 x 11 mm  
No. 11031-15

London Forceps



Angled  
Serrated

16 cm

No. 11080-02

Titanium Forceps

•TITANIUM•

For more information  
see page 203.



Straight  
Serrated

16 cm

No. 11602-16

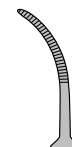
Gerald Forceps



Straight  
Serrated

18 cm

No. 11014-18



Curved  
Serrated


18 cm


No. 11015-18


**Taylor Forceps**


Serrated and smooth versions available.



  
 Straight  
 Serrated  
 17 cm  
 No. 11010-17


  
 Curved  
 Serrated  
 17 cm  
 No. 11011-17


  
 Straight  
 Smooth  
 17 cm  
 No. 11016-17


  
 Curved  
 Smooth  
 17 cm  
 No. 11017-17


**Potts-Smith Forceps**



  
 Straight  
 Serrated  
 18 cm  
 No. 11012-18  
 21 cm  
 No. 11012-21  
 25 cm  
 No. 11012-25

  
 Curved  
 Serrated  
 18 cm  
 No. 11013-18  
 21 cm  
 No. 11013-21

  
 Straight  
 1x2 teeth  
 18 cm  
 No. 11024-18

  
 Curved  
 1x2 teeth  
 18 cm  
 No. 11025-18



Ultra Fine Hemostat



Straight  
Smooth

12 cm  
Tip width: 0,6 mm

No. 13020-12



Curved  
Smooth

12 cm  
Tip width: 0,6 mm

No. 13021-12

Fine Hemostat



Straight  
Smooth

12 cm  
Tip width: 1 mm

No. 13006-12



Curved  
Smooth

12 cm  
Tip width: 1 mm

No. 13007-12

Micro-Mosquito



Straight Serrated

12 cm  
Tip width: 1,3 mm

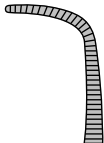
No. 13010-12



Curved Serrated

12 cm  
Tip width: 1,3 mm

No. 13011-12



Angled 90° Serrated

12 cm  
Tip width: 1,3 mm

No. 13012-12

Halsted-Mosquito



13108-12



13008-12



13109-12



Straight Serrated

12,5 cm  
Tip width: 1 mm

No. 13008-12



Curved Serrated

12,5 cm  
Tip width: 1 mm

No. 13009-12



Straight Serrated

12,5 cm  
Tip width: 1 mm  
Left handed

No. 13108-12



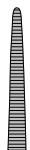
Curved Serrated

12,5 cm  
Tip width: 1 mm  
Left handed

No. 13109-12

HEMOSTATS

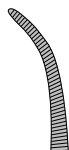
Crile



Straight  
Serrated

14 cm  
Tip width: 1,5 mm

No. 13004-14



Curved  
Serrated

14 cm  
Tip width: 1,5 mm

No. 13005-14

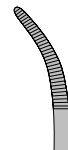
Kelly



Straight  
Serrated

14 cm  
Tip width: 1,5 mm

No. 13018-14



Curved  
Serrated

14 cm  
Tip width: 1,5 mm

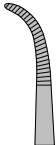
No. 13019-14

Baby-Mixer

Providence-Hospital



HEMOSTATS



Curved  
Serrated  
14 cm  
Tip width: 1,3 mm  
No. 13013-14



Straight  
Serrated  
14 cm  
Tip width: 1,5 mm  
No. 13014-14



Curved  
Serrated  
14 cm  
Tip width: 1,5 mm  
No. 13015-14

Hartman

MOST POPULAR

13003-10



Straight Serrated

10 cm  
Tip width: 1 mm

No. 13002-10



Curved Serrated

10 cm  
Tip width: 1 mm

No. 13003-10

Backhaus Towel Clamp



9 cm

No. 11095-09

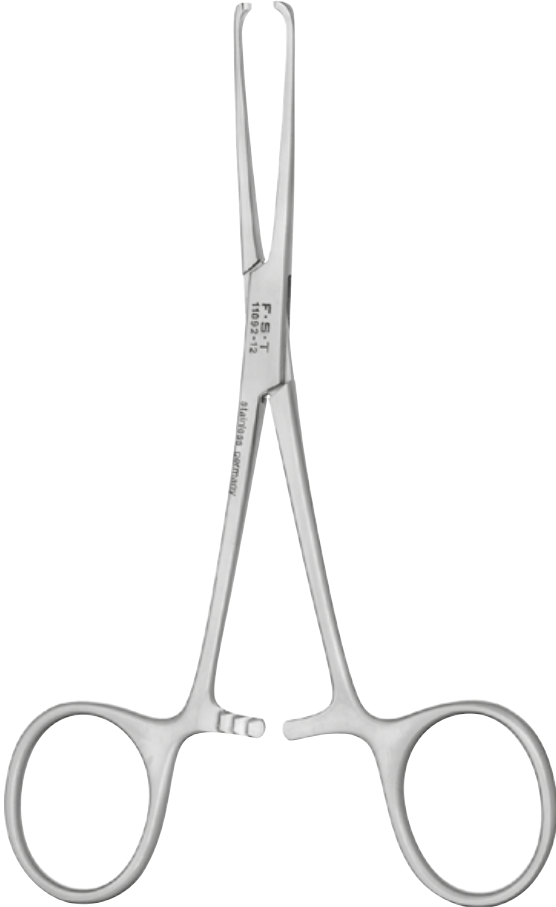


13 cm

No. 11095-13

**Allis Clamp**

Tissue and organ holding forceps.



**Lorna Clamp**



HEMOSTATS

**Allis**

④ 4 mm

5x6 teeth

15 cm

Tip width: 4 mm

No. 11091-15

**Allis-Baby**

③ 3 mm

4x5 teeth

12 cm

Tip width: 3 mm

No. 11092-12



Serrated

10 cm

Tip width: 6 mm

No. 11096-10



Serrated

13 cm

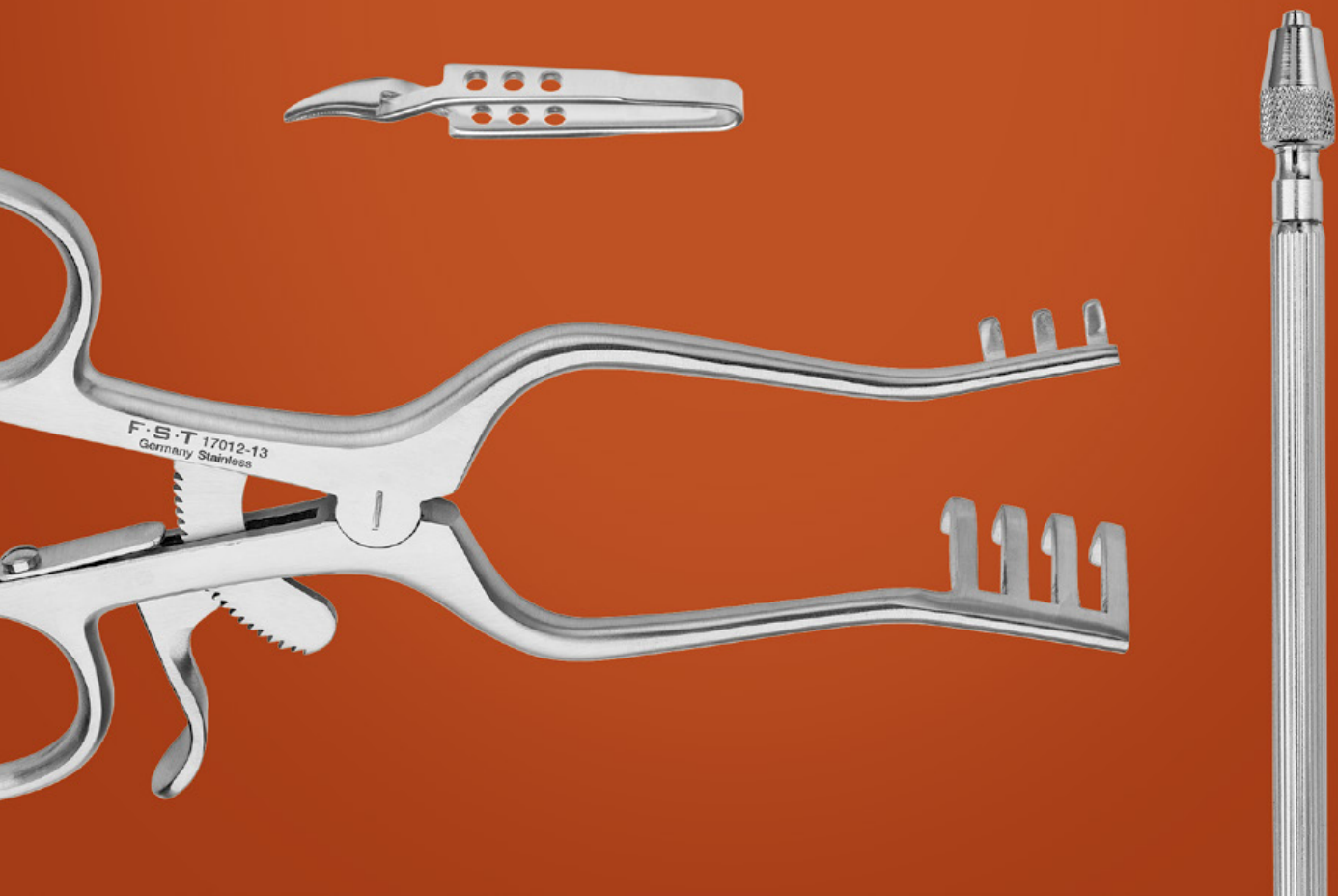
Tip width: 7 mm

No. 11096-13



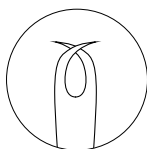
## Probes, Needle Holders, Wound Closure, Retractors & Clamps

Probes & Hooks	Pages	103 – 107
Spatulae	Pages	106 – 109
Hippocampal Tools	Page	110
Spoons	Page	111
Pins & Holders	Pages	112 – 113
Wound Closure	Pages	114 – 125
Retractors	Pages	126 – 133
Vascular Instruments	Pages	134 – 143

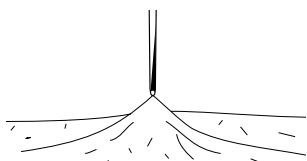


### Double Pronged Pick

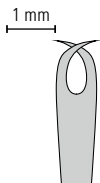
For peritoneum, pleura, endocardium, organ capsules and skin. Grasps and lifts skin, tissue and dura, etc.



700%



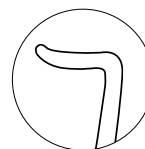
The tip consists of two very sharp, nearly horizontally opposed points. By applying gentle downward pressure and twisting slightly in a clockwise fashion, the points will embed themselves horizontally into fine membranes or skin, etc., so that it may be lifted upward. This instrument also has been used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



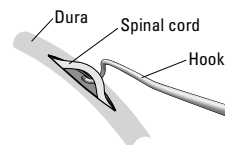
11 cm  
Tip diameter: 1 mm

No. 18067-11

### Spinal Cord Hook



300%



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.



12 cm  
Tip diameter: 3 mm

No. 10162-12

PROBES & HOOKS



Bonn Micro Probes

Micro Points

PROBES & HOOKS



Actual size

Angled 45°

13,5 cm  
Tip diameter: 0,025 mm

No. 10032-13



Actual size

Straight

13,5 cm  
Tip diameter: 0,025 mm

No. 10030-13



300%

Angled 90° short

15,5 cm  
Tip diameter: 0,05 mm

No. 10063-15



Actual size

Large curve

13,5 cm  
Tip diameter: 0,038 mm

No. 10033-13



Actual size

Curved

13,5 cm  
Tip diameter: 0,025 mm

No. 10031-13



300%

Angled 45°

15,5 cm  
Tip diameter: 0,038 mm

No. 10066-15



300%

Angled 90°

15,5 cm  
Tip diameter: 0,02 mm

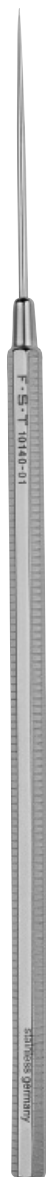
No. 10065-15

Probes and Explorers

Micro Hooks

**MOST POPULAR**

10140-01



Actual size

Short angle

15,5 cm  
Tip diameter: 0,12 mm

No. 10140-04



Actual size

Long angled

15,5 cm  
Tip diameter: 0,15 mm

No. 10140-03



Actual size

Straight

15,5 cm  
Tip diameter: 0,25 mm

No. 10140-01



Actual size

Angled

15,5 cm  
Tip diameter: 0,15 mm

No. 10140-02



175%

Short round hook

13 cm  
Tip diameter: 0,05 mm

No. 10064-14



175%

Blunt hook

12 cm  
Tip diameter: 0,30 mm

No. 10062-12



175%

Sharp hook

12 cm  
Tip diameter: 0,075 mm

No. 10061-12

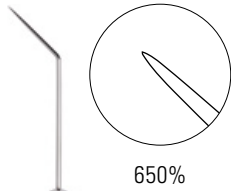
PROBES & HOOKS

**Titanium Micro Point, Y-Hook, and Spatula**

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

**•TITANIUM•**

For more information  
see page 203.



650%



**Micro Point**



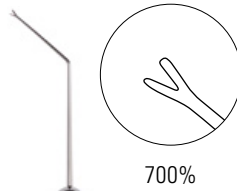
Angled 45°

12,5 cm  
Tip diameter: 0,4 mm

No. 10165-11

**•TITANIUM•**

For more information  
see page 203.



700%



**Y-Hook**



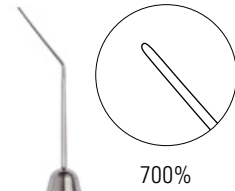
Angled 45°

12,5 cm  
Tip width: 0,5 mm

No. 10166-11

**•TITANIUM•**

For more information  
see page 203.



700%



**Micro Spatula**



Angled 30°

12,5 cm  
Tip width: 0,6 mm  
Tip thickness: 0,25 mm

No. 10167-11

Vessel Dilating Probe



200%



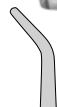
Angled 45°

12,5 cm  
Tip diameter: 0,6 mm

No. 10160-13

Gross Anatomy Probe

MOST POPULAR

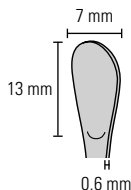


Angled 45°

15 cm  
Tip diameter: 1,2 mm

No. 10088-15

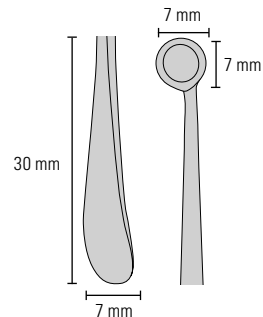
Combination Probe and Spatula



14 cm  
Spatula dimension: 13 x 7 x 0,6 mm  
Tip diameter: 0,1 mm

No. 10090-13

Combination Spoon and Spatula



17,5 cm  
Spatula dimension: 30 x 7 mm  
Spoon diameter: 7 mm

No. 10090-17

SPATULAE

# SPATULAE

## Micro Spatula

## Mirror Finish Micro Spatula

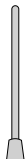
Mirror finished to provide a non-stick spatula.

## Double-Ended Micro Spatula

MOST POPULAR

## Iris Spatulae

SPATULAE



Straight

11 cm  
Tip width: 1 mm  
Tip thickness: 0,25 mm

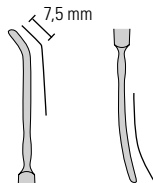
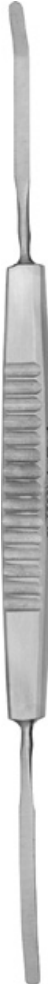
No. 10089-11



Slightly curved

12 cm  
Tip width: 0,8 mm  
Tip thickness: 0,25 mm

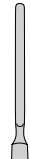
No. 10087-12



Angled

13 cm  
Tip width: 2 mm  
Tip thickness: 0,3 mm

No. 10091-12



Straight

13 cm  
Tip width: 3 mm  
Tip thickness: 0,4 mm

No. 10094-13



Slightly curved

13 cm  
Tip width: 1,7 mm  
Tip thickness: 0,3 mm

No. 10093-13



Curved

12 cm  
Tip width: 1,8 mm  
Tip thickness: 0,3 mm

No. 10092-12

**Micro Spatula Kit**

Kit with 4 pieces



150% of actual size

SPATULAE

Black



Straight

6 cm  
Tip width: 0,2 mm

No. 10098-06

Blue



Straight

6 cm  
Tip width: 0,3 mm

Green



Straight

6 cm  
Tip width: 0,5 mm

Red



Straight

6 cm  
Tip width: 0,7 mm

**Mini Hippocampal Dissecting Tool**

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

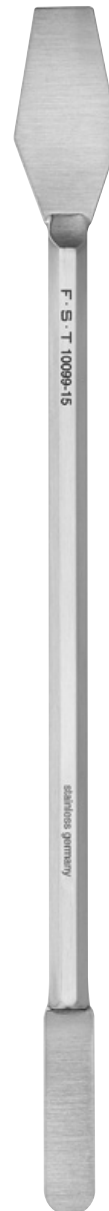


14,5 cm  
Spatula dimension: 20 x 6 mm & 13 x 3 mm  
Tip thickness: 0,5 mm

No. 10099-12

**Hippocampal Dissecting Tool**

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



16 cm  
Spatula dimension: 27 x 14 mm & 27 x 6 mm  
Tip thickness: 0,5 mm

No. 10099-15

SPATULAE

**Spoon**



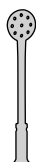
Moria 1121B

12,5 cm  
Diameter: 8 mm  
Depth: 2 mm

No. 10321-08

**Mini Perforated Spoon**

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



Moria MC 17C

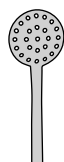
10 cm  
Diameter: 8 mm  
Depth: 1 mm

Perforations: 0,8 mm  
in diameter

No. 10370-19

**Perforated Spoon**

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

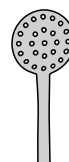


Moria MC 17 BIS

14,5 cm  
Diameter: 15 mm  
Depth: 3 mm

Perforations: 0,9 mm  
in diameter

No. 10370-18



Moria MC 17

14,5 cm  
Diameter: 20 mm  
Depth: 5 mm

Perforations: 0,9 mm  
in diameter

No. 10370-17

**Mirror Finish  
Cutting Spoon**

Non stick cutting spoon.



13 cm  
Diameter: 4,5 mm  
Depth: 0,15 mm

No. 10360-13

SPOONS



**Pin Holder**

Light weight



90% of actual size

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

No. 26018-17

**Pin Holder**



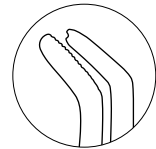
Moria MC1

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

No. 26016-12

**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.



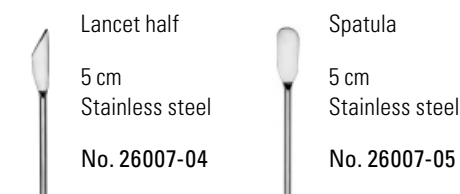
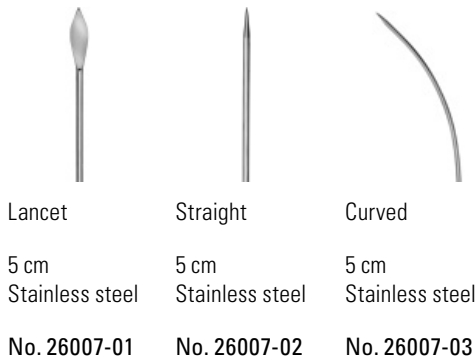
200%

14 cm  
Polished stainless steel

No. 26100-00

### Insert Pins

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



### 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**

### 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**

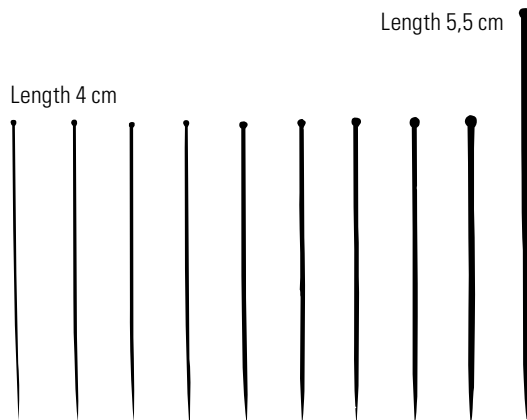
Tip diameter: 0,02 mm  
Rod diameter: 0,2 mm  
10 mm

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



### Black Anodized Insect Pins

Nylon heads  
Tip diameter: 0,03 mm  
Pkg. of 100 pins



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

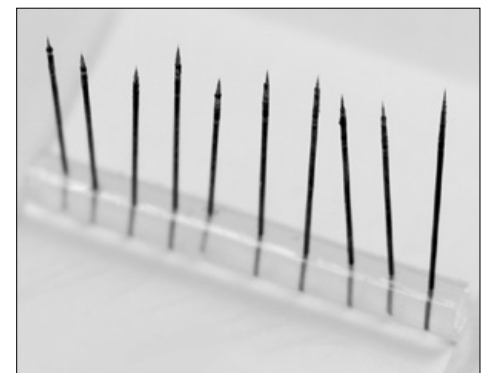
### Stainless Steel Insect Pins

Nylon heads  
Tip diameter: 0,03 mm  
Pkg. of 100 pins

Size	000	00	0	1	2	3	4	5	6	7
Rod diameter (mm)	0,25	0,30	0,35	0,40	0,45	0,50	0,55	0,60	0,65	0,70
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 112.



Tip diameter: 1 µm (0,001 mm)  
12 mm

Box of 10 needles

Rod diameter (mm)	Item
0,125	No. 10130-05
0,25	No. 10130-10
0,5	No. 10130-20

**Castroviejo**

Micro pattern, with slightly blunted tips.

**Round Handled Needle Holder with Suture Cutter**

Round handles allow easy fingertip adjustments.

**Round Handled Needle Holder**

Round handles allow easy fingertip adjustments.

**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 120).



Straight

9 cm

With lock

No. 12060-01

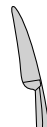


Curved

9 cm

With lock

No. 12061-01



Curved

Cutting edge: 3,5 mm

14 cm

Without lock

No. 12075-14



Straight

12,5 cm

With lock

No. 12075-12

Without lock

No. 12076-12

**Mathieu**

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

**TUNGSTEN  
CARBIDE**

For more information  
see page 203.



14 cm

With lock  
No. 12010-14



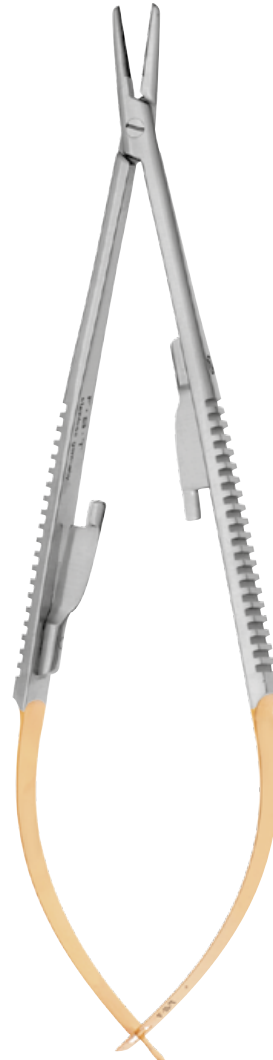
With tungsten  
carbide jaws  
14 cm

With lock  
No. 12510-14

**Castroviejo with Tungsten Carbide Jaws**

**TUNGSTEN  
CARBIDE**

For more information  
see page 203.



With tungsten carbide jaws  
14 cm

With lock  
No. 12565-14

NEEDLE HOLDERS

Halsey

MOST POPULAR

TUNGSTEN CARBIDE

For more information see page 203.



13 cm  
Smooth  
With lock

No. 12001-13



13 cm  
With tungsten carbide jaws  
With lock

No. 12501-13

Halsey with Tungsten Carbide Jaws

TUNGSTEN CARBIDE

For more information see page 203.



12,5 cm  
With tungsten carbide jaws  
With lock

No. 12500-12

NEEDLE HOLDERS

Olsen-Hegar with Suture Cutter

**MOST POPULAR**

**LEFT HANDED** 

12102-12



12 cm  
10 mm cutting edge  
With lock

No. 12002-12

No. 12102-12

14 cm  
15 mm cutting edge  
With lock

No. 12002-14

**TUNGSTEN CARBIDE**

**LEFT HANDED** 

12512-12

For more information  
see page 203.



12 cm  
With tungsten carbide jaws  
10 mm cutting edge  
With lock

No. 12502-12

No. 12512-12

14 cm  
With tungsten carbide jaws  
15 mm cutting edge  
With lock

No. 12502-14

NEEDLE HOLDERS

Crile-Wood

**TUNGSTEN  
CARBIDE**

For more information  
see page 203.

**LEFT  
HANDED** 

12504-15



15 cm  
With lock

No. 12003-15

15 cm  
With tungsten  
carbide jaws  
With lock

No. 12503-15

No. 12504-15

Mayo-Hegar



16 cm  
With lock

No. 12004-16



18 cm  
With lock

No. 12004-18

NEEDLE HOLDERS

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

**TUNGSTEN  
CARBIDE**

For more information  
see page 203.



15 cm  
With tungsten  
carbide jaws  
With lock

No. 12005-15

**Ryder Mini-Select Needle Holder**

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

**TUNGSTEN  
CARBIDE**

For more information  
see page 203.



15 cm  
With tungsten  
carbide dust tips  
With lock

No. 12505-15

NEEDLE HOLDERS



**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.



400% of actual size

No. 12051-11



No. 12051-10

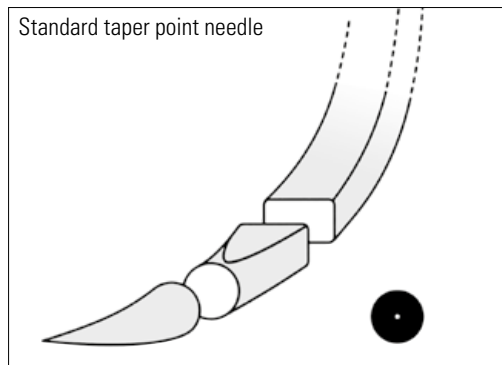


No. 12051-08



**Sterile**

Pkg. of 12 disposable units



Suture size	Suture length (cm)	Needle diameter (micron)	Needle diameter (mm)	Needle chord length (mm)	Circle	Arch (mm)	Item
11/0	10	50	0,05	3	3/8	3,8	No. 12051-11
10/0	10	70	0,07	3	3/8	3,8	No. 12051-10
8/0	15	140	0,14	5	3/8	6,4	No. 12051-08



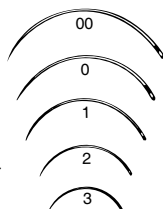
Suture size	Suture length (cm)	Needle diameter (micron)	Needle diameter (mm)	Needle chord length (mm)	Circle	Arch (mm)	Item
11/0	10	50	0,05	3,8	3/8	3,8	12052-11
10/0	10	70	0,07	3,8	3/8	3,8	12052-10
9/0	15	100	0,1	5	3/8	5,1	12052-09
8/0	15	140	0,14	5	3/8	6,4	12052-08

### 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
00	No. 12050-20
0	No. 12050-10
1	No. 12050-01
2	No. 12050-02
3	No. 12050-03

### Silk Suture

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

Braided silk

**Non-sterile**

**Can be ETO sterilized**



Size	Diameter (mm)	Spool length (m)	Item
7/0	0,05	91	No. 18020-70
6/0	0,08	23	No. 18020-60
5/0	0,12	23	No. 18020-50
4/0	0,17	23	No. 18020-40
3/0	0,22	23	No. 18020-30
2/0	0,32	23	No. 18020-20
0	0,37	23	No. 18020-00
1	0,45	23	No. 18020-01
2	0,55	23	No. 18020-02
3	0,65	23	No. 18020-03

For Suture Tying Forceps, see pages 80, 81 and 82.

### Nylon Monofilament Suture

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

Nylon monofilament

**Non-sterile**

**Can be ETO sterilized**



Size	Diameter (mm)	Spool length (m)	Item
8/0	0,04	91	No. 18030-80
7/0	0,05	91	No. 18030-70
6/0	0,07	91	No. 18030-60
5/0	0,10	91	No. 18030-50
4/0	0,15	91	No. 18030-40
3/0	0,20	91	No. 18030-30

SUTURES & NEEDLES

### 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



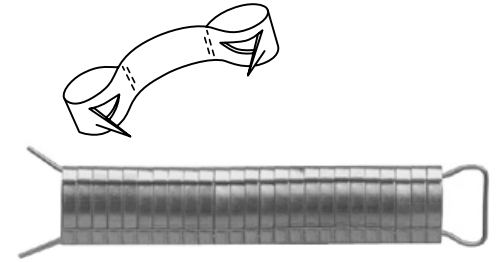
Includes: Fine Science Tools Item Number Reference Page for all surgical instruments used in the manual.

No. 23005-10

**Michel Suture Clips**

Anti-magnetic, acid-resistant stainless steel  
Pkg. of 1.000 clips

Size (mm)	Item
7,5 x 1,75	No. 12040-01
11 x 2	No. 12040-02
12 x 2,5	No. 12040-03



**Applying Forceps**



12,5 cm  
For clip sizes 12040-02 and 12040-03

No. 12018-12

**Applying and Removing Instruments**



Curved

13 cm  
For clip sizes 12040-02 and larger

No. 12028-12



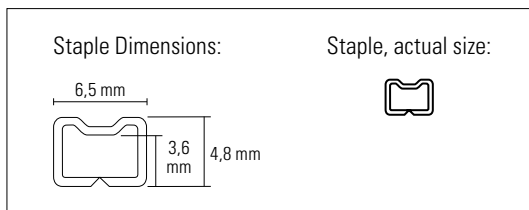
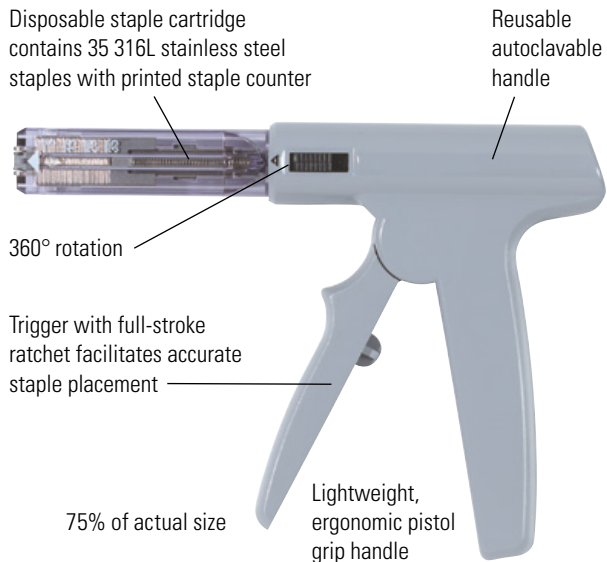
Angled

13 cm  
For clip size 12040-01

No. 12029-12

### 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

Single disposable cartridge  
35 staples per cartridge  
No. 12030-22

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

Handle  
No. 12030-01

### Surgical Staple Remover

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



10 cm  
No. 12030-04

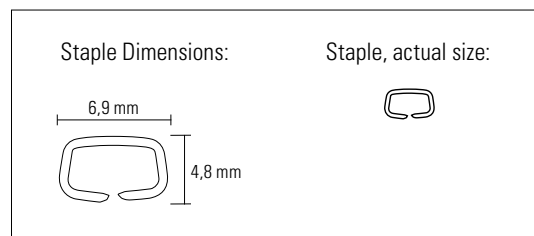
CLIPS

### 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

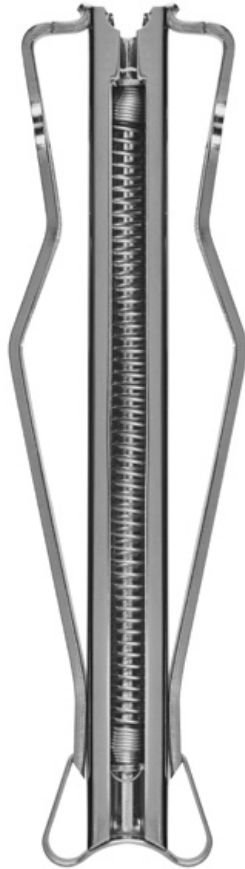
**NOT**  
AUTOCLAVABLE



### AutoClip® System

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

MOST POPULAR



Applier



Clips



Remover

CLIPS

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

No. 12020-00

AutoClip® applier  
11,5 cm

No. 12020-09

AutoClip® clips  
9 mm  
Pkg. of 100 clips

No. 12022-09

AutoClip® clips  
9 mm  
Pkg. of 1000 clips

No. 12022-19

AutoClip® remover  
12,5 cm

No. 12023-00

# RETRACTORS

## Guthrie

Extra delicate pattern.



2,5 mm



13 cm  
2 Pronged  
Blunt

No. 17021-13

## Fine Retractor



6 mm



13,5 cm  
2 Pronged  
Blunt

No. 17023-13

## Blair



6 mm



13,5 cm  
4 Pronged  
Blunt

No. 17022-13

## Fomon



80% of  
actual size

13 mm



17 cm  
2 Pronged  
2 mm Ball at each tip

No. 17020-17

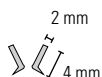
**Slide Retractor with Blades**



2 cm  
Maximum spread: 1 cm  
Atraumatic blades

No. 17004-03

**Mini-Goldstein**



2 cm  
Maximum spread: 0,5 cm  
3x3 Sharp teeth

No. 17002-02

**Mini-Colibri**



2 cm  
Maximum spread: 1 cm

No. 17000-01

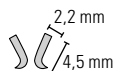
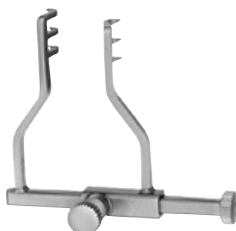
**Slide Retractor with Teeth**



2 cm  
Maximum spread: 1 cm  
2x2 Blunt teeth

No. 17005-03

**Goldstein**



3 cm  
Maximum spread: 1,8 cm  
3x3 Sharp teeth

No. 17003-03

**Colibri**

**MOST POPULAR**

17000-03



3 cm  
Maximum spread: 1,5 cm

No. 17000-03

4 cm  
Maximum spread: 1,5 cm

No. 17000-04



3 cm  
Maximum spread: 1,2 cm

No. 17000-02



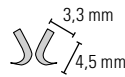
Fine Adjustable Wire Retractor



5 cm  
Maximum spread: 3,5 cm  
Thin, curved blades

No. 17004-05

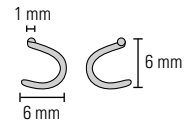
Agricola



4 cm  
Maximum spread: 3,5 cm  
3x3 Sharp teeth

No. 17005-04

Speculum

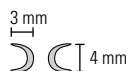


Moria 7699

4,5 cm  
Maximum spread: 3,5 cm  
Thin, curved blades and grooved finger grips

No. 17370-53

**Alm Retractor with Wire Teeth**



7 cm  
Maximum spread: 4 cm  
Arms gently curved down

No. 17010-07

**Alm Retractor with Blunt Teeth**



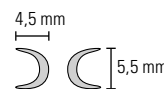
7 cm  
Maximum spread: 4 cm  
Arms gently curved down

Blunt teeth  
No. 17008-07

7 cm  
Maximum spread: 4 cm  
Arms gently curved down

Long blunt teeth  
No. 17009-07

**Alm Retractor with Blades**



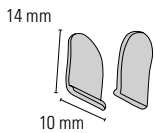
7,5 cm  
Maximum spread: 4,5 cm  
Arms gently curved down  
Thin, curved blades

No. 17009-08

RETRACTORS

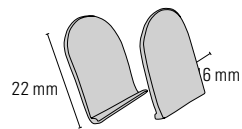
**Spring-Loaded Retractor**

Curved atraumatic blades



5,5 cm  
Maximum spread: 3 cm  
Blade dimensions: 14 x 10 mm

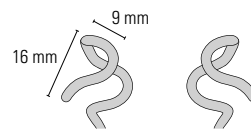
No. 17006-05



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

No. 17007-08

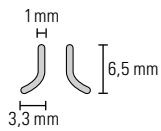
**Bowman**



8 cm  
Maximum spread: 2,5 cm

No. 17001-07

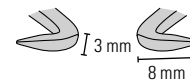
Heiss



Maximum spread: 2,3 cm  
4x4 Blunt teeth  
10 cm

No. 17011-10

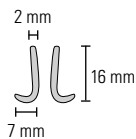
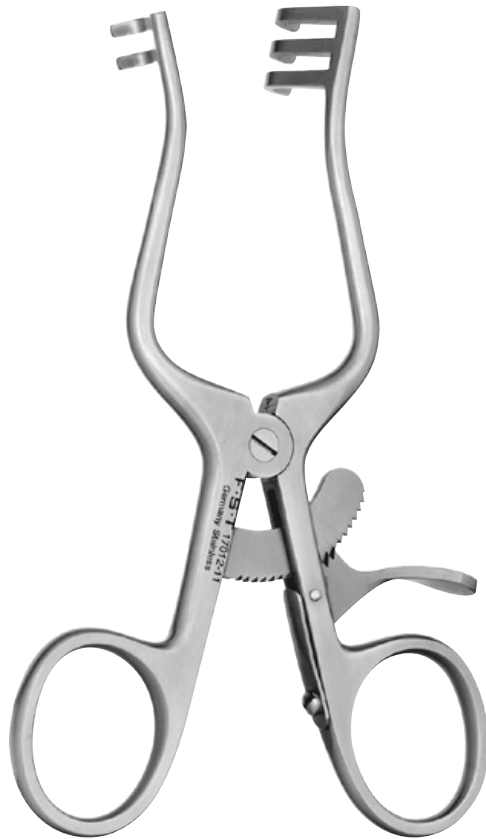
Gelpi



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

No. 17017-10

Weitlaner-Locktite



2x3 Blunt teeth

11 cm  
Maximum spread: 4,5 cm

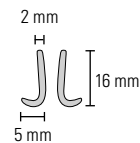
No. 17012-11

3x4 Blunt teeth

13 cm  
Maximum spread: 6,5 cm

No. 17012-13

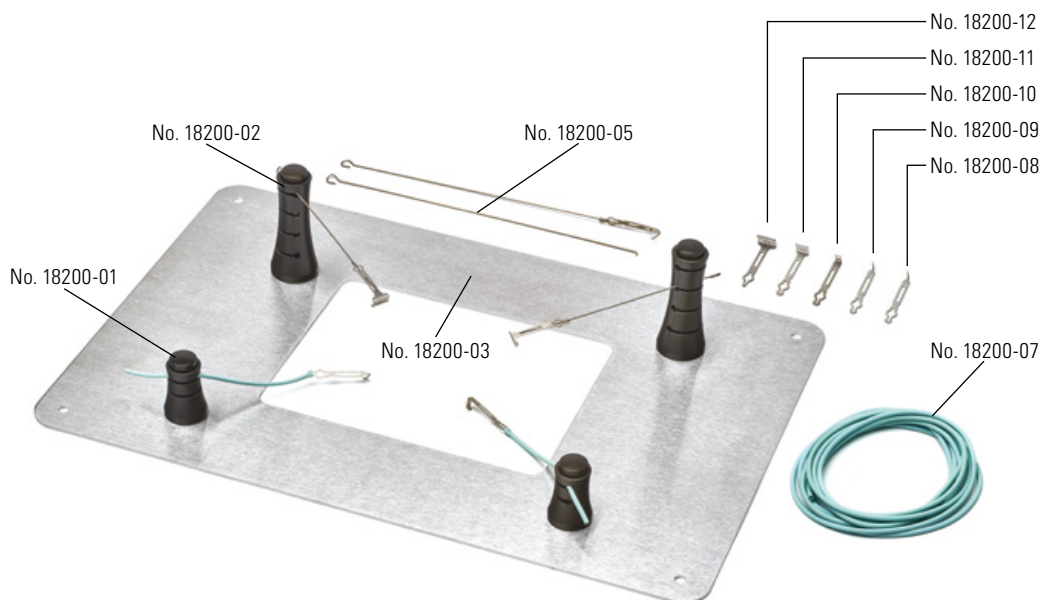
Wullstein



Angled down  
3x3 Blunt teeth

11 cm  
Maximum spread: 4,5 cm

No. 17018-11



## Magnetic Fixator Retraction System

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

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

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

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

**All system components are autoclavable.**

### Kit for animals up to 200 g

Includes:

- 1 Small base plate (No. 18200-03)
- 2 Short fixators (No. 18200-01)
- 1 Tall fixator (No. 18200-02)
- 1 Elastomer, 2 m roll (No. 18200-07)
- 1 Package of retractors, blunt, 1 mm wide (No. 18200-09)
- 1 Package of retractors, blunt, 2,5 mm wide (No. 18200-10)

No substitutions

No. 18200-20

### Kit for animals from 200 g up to 5 kg

Includes:

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

No substitutions

No. 18200-50

### Individual parts:

Short fixator, 2,5 cm high  
Each

No. 18200-01

Tall fixator, 5 cm high  
Each

No. 18200-02

Small base plate, (20 x 30 cm)  
Each

No. 18200-03

Large base plate, (25 x 35 cm)  
Each

No. 18200-04

Wire handles, 10 cm long  
Pkg. of 10

No. 18200-05

Wire handles, 14 cm long  
Pkg. of 10

No. 18200-06

Elastomer, 2 m roll

No. 18200-07

Sharp retractors  
Pkg. of 10

No. 18200-08

Blunt retractors, 1 mm wide  
Pkg. of 10

No. 18200-09

Blunt retractors, 2,5 mm wide  
Pkg. of 10

No. 18200-10

Blunt retractors, 5 mm wide  
Pkg. of 10

No. 18200-11









Blunt retractors, 7,5 mm wide  
Pkg. of 10

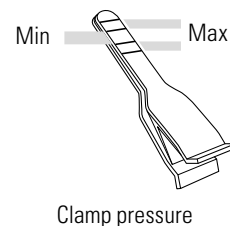
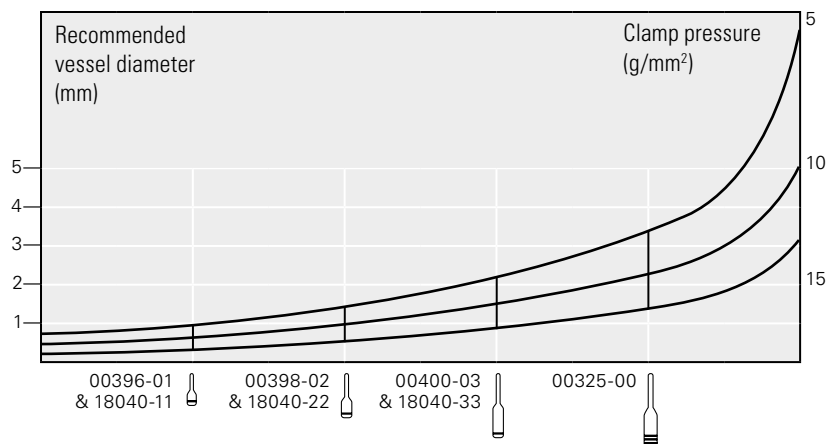
No. 18200-12

## 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  



CLAMPS

## Micro Clamps

S&T®



S&T B-1  
No. 00396-01



S&T B-2  
No. 00398-02



S&T B-3  
No. 00400-03



S&T HD-S  
No. 00325-00

## Double Micro Clamps

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



No. 18040-11



No. 18040-22



No. 18040-33

Micro Clamp Applying Forceps

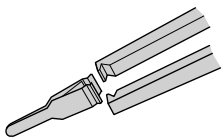
S&T®



14 cm  
Only compatible with  
S&T Micro Clamps

With lock  
No. 00071-14

Without lock  
No. 00072-14

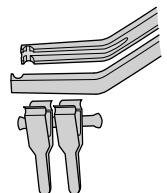
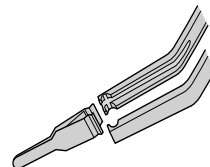


Micro Clamp Applying Forceps



14,5 cm  
Compatible with S&T  
Micro Clamps and  
Double Micro Clamps

Without lock  
No. 18040-14

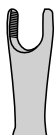


CLAMPS



**Micro Clip Applicator with Lock**

MOST POPULAR



14 cm  
For use with our 18055 and 18555 series micro serrefines

With lock  
No. 18056-14

**Forceps Style Clip Applicator**

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



14 cm  
For use with our 18055 and 18555 series micro serrefines

Without lock  
No. 18057-14

**Stainless Steel Micro Serrefines**

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

MOST POPULAR

Delicate atraumatic serrations  
Spring width: 2 mm



	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



	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**

For more information see page 203.

Lightweight with strong clamping pressure.

Delicate atraumatic serrations  
Spring width: 2 mm



	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.

CLAMPS



**Moria Vessel Clamp**

Straight

33 mm  
 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



Moria 201/A

No. 18320-11

**Moria Bulldog Type Clamps**

53 mm  
 Non-serrated  
 Strong pressure  
 2 mm wide



Straight

Moria MC43

No. 18374-43



Curved

Moria MC44

No. 18374-44

**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



Angled  
 50 mm

No. 18039-45

**Bulldog Type Serrefines**

Serrated

Straight  
 28 mm  
 Medium pressure



No. 18050-28

Curved  
 28 mm  
 Medium pressure



No. 18051-28

Straight  
 35 mm  
 Strong pressure

No. 18050-35



Straight  
 50 mm  
 Strong pressure

No. 18050-50

**MOST POPULAR**  
 Curved  
 35 mm  
 Strong pressure

No. 18051-35



Curved  
 50 mm  
 Strong pressure

No. 18051-50

**Schwartz Micro Serrefines**

Non-serrated  
 Strong pressure  
 26 mm

**MOST POPULAR**

Straight



No. 18052-01

Light bend



No. 18052-02

Sharp bend



No. 18052-03

**Mini Serrefines**

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

Straight



No. 18054-28

Curved



No. 18053-28

**Bulldog Artery Spring Clamp**

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

**TITANIUM**

For more information see page 203.

Straight



30 mm  
 Serrated  
 Light pressure

No. 18144-30

CLAMPS



### Silver Neuro Clips

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

Pkg. of 100 clips  
No. 18040-00

### Vascular Occluders

#### Applications

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

#### Operation

**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.

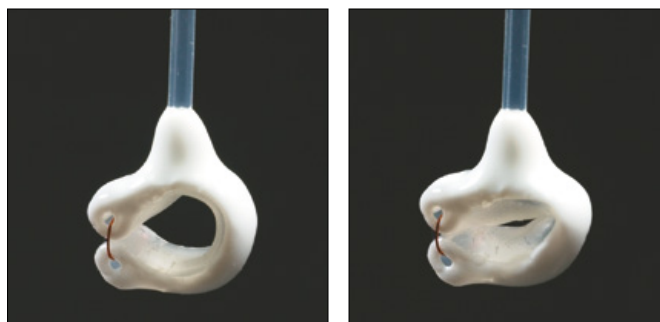
**Step 3** To deflate, simply withdraw the air or liquid.

#### Benefits

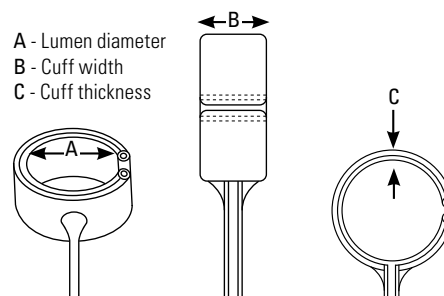
- Occlusion is accomplished without traction on vessels or surrounding tissues.
- The actuating tube may be exteriorized from the occlusion site for remote actuation.
- Performance during implantations is reliable and consistent.
- Autoclavable or cold sterilized, and easily maintained.
- Made from soft,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

#### VO-2

Lumen diameter: 2 mm  
Cuff width: 5 mm  
Cuff thickness: 1,5 mm

No. 18080-02

#### VO-3

Lumen diameter: 3 mm  
Cuff width: 5 mm  
Cuff thickness: 1,5 mm

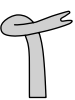
No. 18080-03

**V-Hook**

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



300%



11 cm  
Tip diameter: 0,4 x 0,2 mm  
No. 18052-12

**Ligation Aids**

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



300%

Ultrafine



10,5 cm  
Hole diameter: 0,4 mm  
No. 18062-12



18063-13



200%

200%



13,5 cm  
Hole diameter: 1 mm  
No. 18062-13

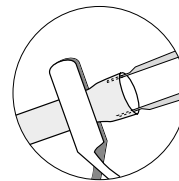


13,5 cm  
Hole diameter: 1 mm  
No. 18063-13

LIGATION

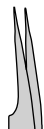
**Vessel Dilators**

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



S&T®

S&T®



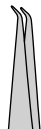
Angled 10°

11 cm  
Tip diameter: 0,1 mm

No. 00126-11

Tip diameter: 0,2 mm

No. 00125-11



Angled 45°

13,5 cm  
Tip diameter: 0,2 mm

No. 00276-13



Angled 10°

12 cm  
Tip diameter: 0,1 mm

No. 18131-12

Tip diameter: 0,2 mm

No. 18132-12

## 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



80% of actual size



Straight

14,5 cm  
Suture tying platform  
Tip diameter: 0,1 mm

No. 18601-15



80% of actual size



Straight

15 cm  
Suture tying platform  
Tip diameter: 0,3 mm

No. 18602-15



80% of actual size



Angled

14,5 cm  
Smooth  
Tip diameter: 0,2 mm

No. 18603-14

DILATORS

**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.



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.

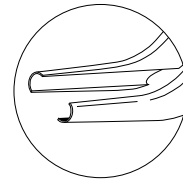
8 cm

Cannula size 0,33 mm OD - 0,16 mm ID

No. 18000-10

**Vessel Cannulation Forceps**

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



11 cm  
For tubing between  
0,5 and 1 mm OD  
  
No. 00574-11



11 cm  
For tubing of 0,35 mm OD  
  
No. 11280-11

11 cm  
For tubing of 0,5 mm OD  
  
No. 11281-11

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



11,5 cm  
For tubing of 0,35 mm OD  
  
No. 18403-11

11,5 cm  
For tubing of 0,6 mm OD  
  
No. 18406-11

13,5 cm  
For tubing of 0,6 mm OD  
  
No. 18406-13

CANNULATION





## Accessories & Instrument Care

Animal Accessories                      Pages    145 – 148

Instrument Care & Sterilization      Pages    149 – 161

Surgical & Laboratory Accessories    Pages    162 – 177



### 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
24	25	1,25	Straight	>14 g			No. 18061-24
22	25	1,25	Straight	15-20 g			No. 18061-22
20	30	Barrel	Straight	20-25 g	50-75 g		No. 18060-20
20	38	2,25	Straight	20-25 g	50-75 g		No. 18064-20
20	38	2,25	Curved	20-25 g	50-75 g		No. 18065-20
18	38	2,25	Straight	20-30 g	100-200 g	250-300 g	No. 18061-38
18	50	2,25	Curved	25-30 g	100-200 g	250-300 g	No. 18061-50
16	75	3,00	Curved		150-300 g	350-450 g	No. 18061-75
16	100	3,00	Curved		150-300 g	350-450 g	No. 18061-10

FEEDING

### Single Use Gavage Feeding Needles

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

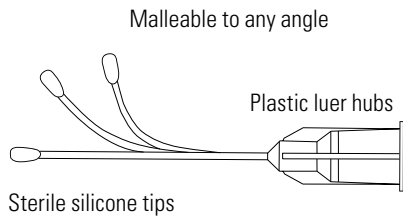


Pkg. of 5 needles

Gauge	Length (mm)	Tip diameter (mm)	Shape	Mice	Rats	Guinea pigs	Item
20	38	1,75	Flexible	20-25 g	50-75 g		No. 18061-20
18	50	2,50	Flexible	25-30 g	100-200 g		No. 18061-18
15	75	3,00	Flexible		200-350 g	400-600 g	No. 18061-15

**Disposable Flexible PTFE Feeding Needles**

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



Pkg. of 5 needles

Gauge	Length (mm)	Tip diameter (mm)	Shape	Mice	Rats	Guinea pigs	Item
20	38	Barrel 1,8	Flexible	20-25 g	50-75 g		No. 18961-20
18	38	Barrel 2	Flexible	20-30 g	100-200 g	250-300 g	No. 18961-18
17	52	Barrel 2,4	Flexible	25-30 g	100-200 g	250-300 g	No. 18961-17
15	78	Barrel 2,6	Flexible		200-350 g	400-600 g	No. 18961-15
18	75	Barrel 2	Flexible	25-30 g	150-250 g	250-300 g	No. 18961-75
17	85	Barrel 2,4	Flexible	25-30 g	150-250 g	250-300 g	No. 18961-85

**GenoPunch**

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

**Autoclavable.**

MOST POPULAR



70% 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.

11,5 cm  
Stainless steel and anodized aluminum  
Punch diameter: 2 mm

No. 24215-02

**Ear Punch**

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



70% of actual size

11,5 cm  
Stainless steel and anodized aluminum  
Punch diameter: 2 mm

No. 24214-02

**Finger Loop Ear Punch**

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



70% of actual size

10,5 cm  
Punch diameter: 1 mm

No. 24212-01

Punch diameter: 2 mm

No. 24212-02

**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.



50% of actual size

14 cm

No. 18000-30

IDENTIFICATION

**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

Black numbers 1-500

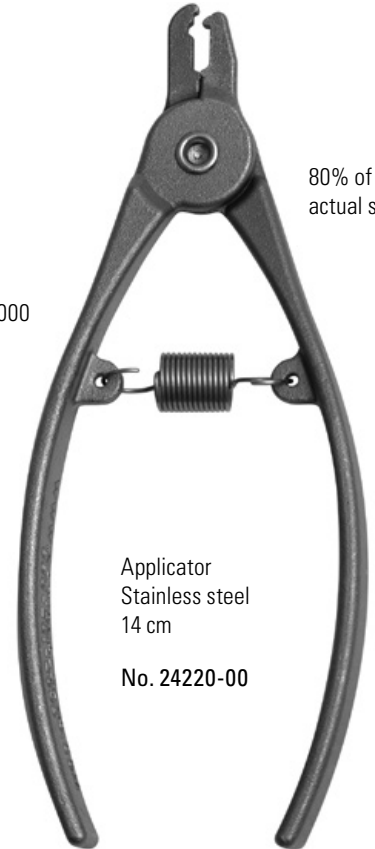
No. 24220-50

Black numbers 501-1000

No. 24220-90



Ear Tags (enlarged view)



80% of actual size

Applicator  
Stainless steel  
14 cm

No. 24220-00

IDENTIFICATION

**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



13 cm  
Animal microtattoo system

No. 24201-00



Green tattoo paste  
1 oz / 29,6 ml

No. 24201-01

**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

**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



**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.

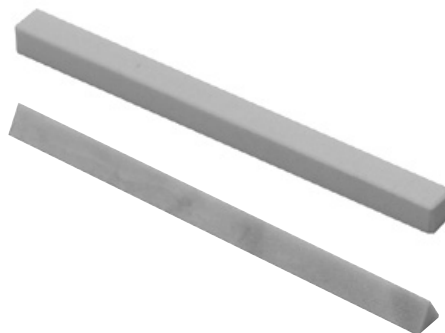
6 mm x 9 cm

Square stone

No. 29008-01

Triangular stone

No. 29008-12



**Instrument Oil**

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

50 ml bottle

No. 29055-00



### Sharpening Stone for Fine Forceps

This natural Arkansas stone assists in reshaping the tips of fine forceps. The stone has two grooves, 0,8 mm and 1,6 mm, and comes in a cedar box with ten O-rings.



*European version differs from photo.*

4 x 1 x 10 cm

No. 29008-22

### 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.

**MOST  
POPULAR**



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

### 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)

Lens Paper

15 x 10 cm

Kit Book of 50 sheets

No. 29000-10

No. 29015-50



**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.**



290 x 0,6 cm  
Green  
Material: Vinyl

No. 29071-01



290 x 0,6 cm  
Blue  
Material: Vinyl

No. 29071-02



290 x 0,6 cm  
Yellow  
Material: Vinyl

No. 29071-03



290 x 0,6 cm  
Red  
Material: Vinyl

No. 29071-04



290 x 0,6 cm  
White  
Material: Vinyl

No. 29071-05



290 x 0,6 cm  
Black  
Material: Vinyl

No. 29071-06



290 x 0,6 cm  
Brown  
Material: Vinyl

No. 29071-07



290 x 0,6 cm  
Orange  
Material: Vinyl

No. 29071-08

**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.**



107 x 0,6 cm (each roll)  
Material: Vinyl

No. 29080-00



**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.**

**MOST POPULAR**  
29060-00



1,6 x 19,1 mm  
Pkg. of 25  
Material: Plastisol

No. 29060-01



2 x 19 mm  
Pkg. of 25  
Material: Plastisol

No. 29060-02



2,8 x 19,1 mm  
Pkg. of 25  
Material: Plastisol

No. 29060-03



3,2 x 25,4 mm  
Pkg. of 25  
Material: Plastisol

No. 29060-04



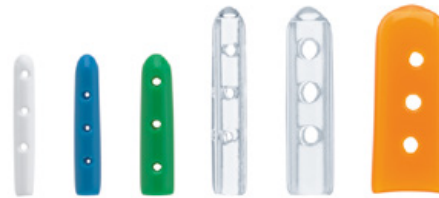
4,8 x 25,4 mm  
Pkg. of 25  
Material: Plastisol

No. 29060-05



2 x 9,5 x 25,4 mm  
Pkg. of 25  
Material: Plastisol

No. 29060-06



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

No. 29060-00

INSTRUMENT CARE

**Double Tip Protectors**

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



12,7 x 20 mm  
Pkg. of 10  
Material: Plastisol

No. 29066-01



9 x 25,5 mm  
Pkg. of 10  
Material: Plastisol

No. 29066-02



15 x 25 mm  
Pkg. of 10  
Material: Plastisol

No. 29066-03



25 x 26 mm  
Pkg. of 10  
Material: Plastisol

No. 29066-04



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

No. 29066-00

**Self Sealing Sterilization Pouches**

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

**Material properties:**

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



STERILIZATION

10 x 18 cm  
For instruments up to 13 cm long

Pkg. of 100 pouches

No. 28000-07

13 x 26 cm  
For instruments up to 23 cm long

Pkg. of 100 pouches

No. 28000-10

18 x 30 cm  
For instruments up to 26 cm long

Pkg. of 100 pouches

No. 28000-12

## Hot Bead Sterilizer

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.

### 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

Replacement glass beads for FST 250  
No. 18000-46

### 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

Replacement glass beads for FST 350  
No. 18000-51

### Autoclave Tape Dispenser

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

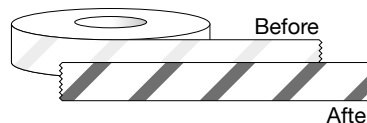


Tape sold separately.

23,5 cm  
Coated steel  
No. 28001-00

### 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

### Disposable Sterilization Wraps

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



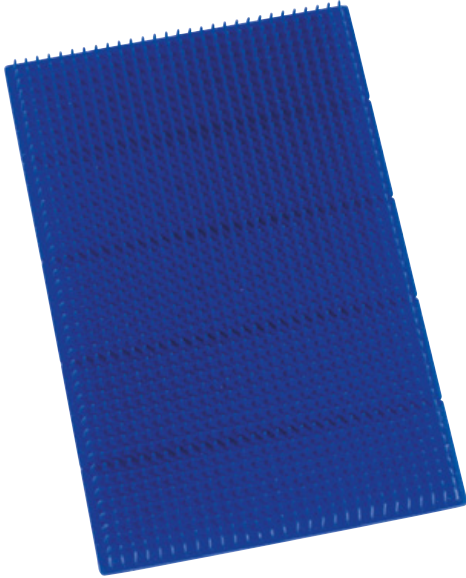
Cases not included.

38 x 38 cm  
Pkg. of 25 wraps  
No. 28015-15

51 x 51 cm  
Pkg. of 25 wraps  
No. 28020-20

**Silicone Mat**

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



30 x 20 cm

No. 20325-00

**Magnetic Sterilization Mat**

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



Instruments not included.

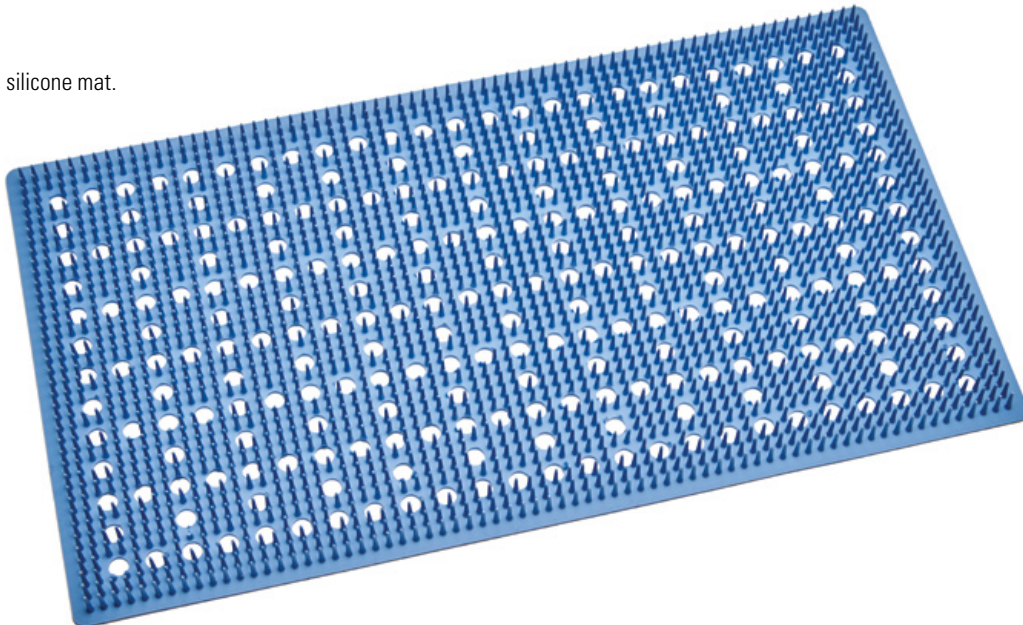
30 x 20 cm

No. 20350-00

MATS

**Silicone Mat**

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



46 x 25 cm

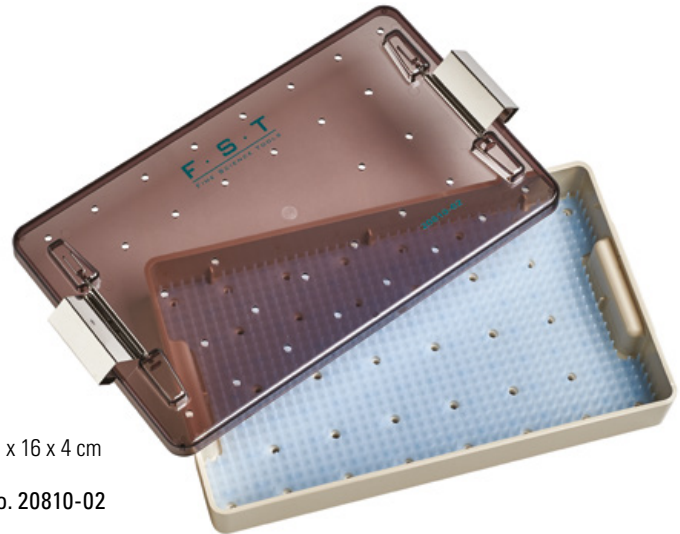
No. 20325-10

**Sterilization Container**

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



19 x 10 x 2 cm  
No. 20810-01



27 x 16 x 4 cm  
No. 20810-02

**Two Tiered Sterilization Container**

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



25 x 12 x 3 cm  
No. 20820-00

CASES

**Sterilization Container**

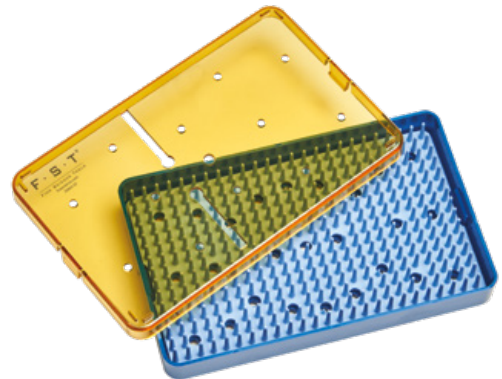
This sterilization container is made from Ultem® polymer to ensure strength and long lasting durability. The transparent perforated lid provides easy identification of your surgical instruments. Silicone mat is included for a safe and secure hold. Trays are also stackable for convenience. **Suitable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

**MOST POPULAR**  
20840-03



19 x 7 x 2 cm  
Single tier

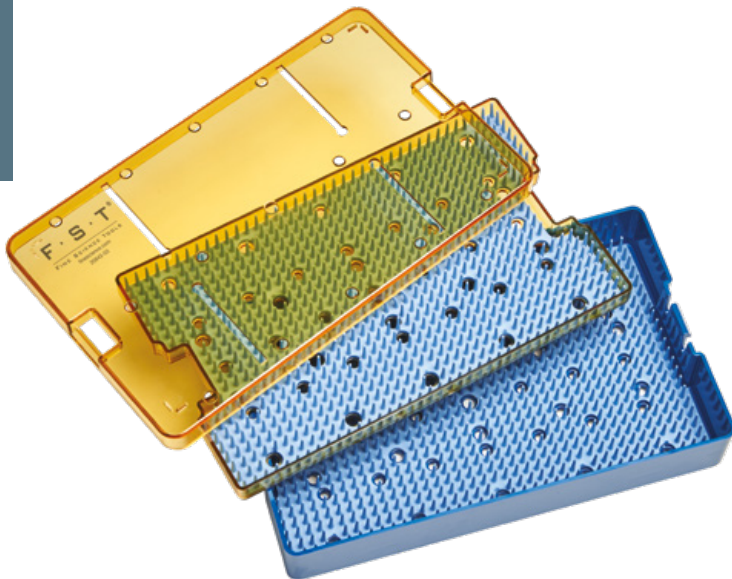
No. 20840-01



17 x 10 x 2 cm  
Single tier

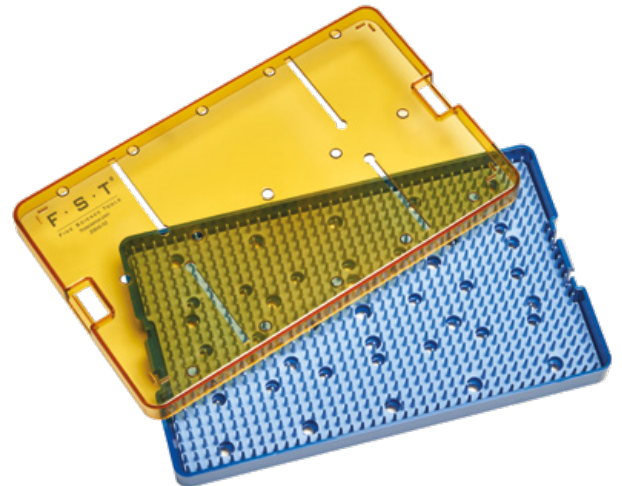
No. 20840-02

CASES



25 x 15 x 4 cm  
Double tier

No. 20842-03



25 x 15 x 2 cm  
Single tier

No. 20840-03

**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

5 Long-term textile filters  
No. 20850-10

One Long-term textile filter  
No. 20850-11

**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

10 Long-term textile filters  
No. 20890-72

One Long-term textile filter  
No. 20890-71



**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

CASES



**Roll Up Travel Case**

Vinyl dissection roll up case with Velcro strap to hold the case closed. Holds up to 10 tools, one ruler holder, and one Velcro sealed pouch. **Instruments not included.**



No. 20831-10

**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.**

MOST POPULAR



Instruments not included.



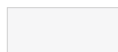
17 x 8 x 2 cm  
Blue

No. 20830-00



17 x 8 x 2 cm  
Green

No. 20830-01



17 x 8 x 2 cm  
Clear

No. 20830-02



17 x 8 x 2 cm  
Yellow

No. 20830-03



17 x 8 x 2 cm  
Pink

No. 20830-04



17 x 8 x 2 cm  
Orange

No. 20830-05



17 x 8 x 2 cm  
Purple

No. 20830-06

**Instrument 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.



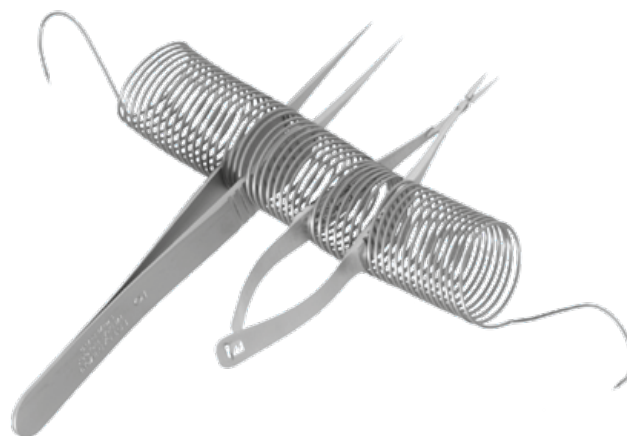
Instrument not included.

Diameter: 10 cm  
Height: 8 cm

No. 00081-00

**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.



Instruments not included.

Length: 4 cm (closed)  
Diameter: 2 cm

No. 18090-00

ACCESSORIES

**Stainless Steel Burrs**

Length: 44 mm  
 Shaft diameter: 2,3 mm  
 Pkg. of 10 burrs



Diameter (mm)	Item
0,7*	No. 19008-07
0,9**	No. 19008-09
1,4	No. 19008-14

\* Use this size for screws No. 19010-10 (page 50).  
 \*\* Use this size for screws No. 19010-00 (page 50).

**Carbon Steel Burrs**

Length: 44 mm  
 Shaft diameter: 2,3 mm  
 Pkg. of 10 burrs



Diameter (mm)	Item
0,5	No. 19007-05
0,7*	No. 19007-07
0,9**	No. 19007-09
1,4	No. 19007-14
2,1	No. 19007-21
2,9	No. 19007-29

\* Use this size for screws No. 19010-10 (page 50).  
 \*\* Use this size for screws No. 19010-00 (page 50).

**Tungsten Carbide Burrs**

Length: 44 mm  
 Shaft diameter: 2,3 mm  
 Pkg. of 5 burrs



For more information  
 see page 203.

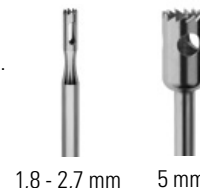
Diameter (mm)	Item
0,5	No. 19009-05
0,7*	No. 19009-07
0,9**	No. 19009-09

\* Use this size for screws No. 19010-10 (page 50).  
 \*\* Use this size for screws No. 19010-00 (page 50).

**Stainless Steel Trepines**

Side opening for clearing of material.

Length: 44 mm  
 Shaft diameter: 2,3 mm  
 Sold individually



Outer Diameter (mm)	Item
1,8	No. 18004-18
2,3	No. 18004-23
2,7	No. 18004-27
5	No. 18004-50

**Stainless Steel Circular Saw**

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

Diameter: 16 mm  
 Thickness: 0,1 mm

Pkg. of 10 saws  
 No. 18000-20



**Stainless Steel Mandrel**

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

Length: 45 mm  
 Shaft diameter: 2,3 mm

No. 18000-18



### High Temperature 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: 70 g  
Length: 16 cm (without tip)

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

65% of actual size

### Low Temperature Cautery Kit

This low temperature cautery kit is a great alternative to disposable cautery units. Temperature at the tips is approximately 649°C. Replacement cautery tips are available. **Not autoclavable.**



Plastic body  
Stainless steel tips: 0,2 mm diameter  
Operation temperature: 649°C (1200°F)  
Total weight: 60 g  
Length: 12 cm (without tip)

- Cautery kit includes:
- 1 Cautery Handle
  - 2 AA Batteries
  - 2 Fine Tips
  - 1 Storage Case
  - 2 Elongated Fine Tips

CAUTERIZERS

MOST POPULAR



Replacement tips  
Straight standard  
**Sterile**  
**Single use**

Box of 10 tips  
No. 18010-01

MOST POPULAR



Replacement tips  
Straight fine  
**Sterile**  
**Single use**

Box of 10 tips  
No. 18010-02

MOST POPULAR

Cautery kit  
No. 18010-00



Replacement tips  
Elongated Straight Fine  
**Sterile**  
**Single use**

Box of 10 tips  
No. 18019-01



Replacement tips  
Straight Fine  
**Sterile**  
**Single use**

Box of 10 tips  
No. 18019-02

Cautery kit  
No. 18019-00

**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
- 1 Straight fine tip
- 1 Angled fine tip
- 2 AA Batteries
- 1 Storage Case

**Cautionary note:**

Remove batteries before autoclaving.

80% of actual size

CAUTERIZERS



Replacement tip  
 Straight fine

No. 18000-01



Replacement tip  
 Angled fine

No. 18000-02



Replacement tip  
 Straight knife

No. 18000-03



Replacement tip  
 Straight knob

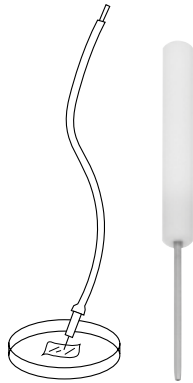
No. 18000-04

Cautery kit

No. 18000-00

### Neuro Punches

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

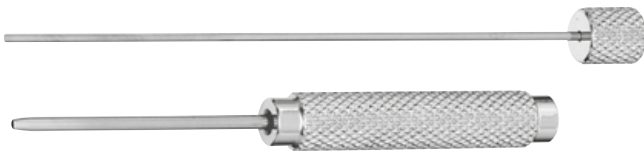


ID (mm)	OD (mm)	Gauge	Length (cm)	Item
0,31	0,61	24	4,2	No. 18036-24
0,41	0,70	22	4,5	No. 18036-22
0,69	1,00	19	4,5	No. 18036-19

### Sample Corers

For quantitative analysis. Comes with plunger.

8,5 cm



ID (mm)	OD (mm)	Gauge	Item
0,35	0,80	21	No. 18035-35
0,50	1,00	19	No. 18035-50
0,80	1,45	17	No. 18035-80
1,00	1,80	15	No. 18035-01
2,00	3,00	11	No. 18035-02
3,00	4,00	8	No. 18035-03
5,00	6,00	4	No. 18035-05

### 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**  
7 cm  
**Sterile**

Box of 200 spears  
No. 18105-01



**Absorption Triangles**  
2 cm  
**Sterile**

Box of 500 triangles  
No. 18105-03

### Fiber Optic Swabs



Straight

15 cm  
Tip diameter: 2,5 mm  
Pack of 100

No. 18106-01

### Micro Cleaning Brush



70 mm  
Nylon

Bag of 25

No. 18196-10

**Miniature File Set**

Comes with 8 different file profiles in a vinyl pouch.

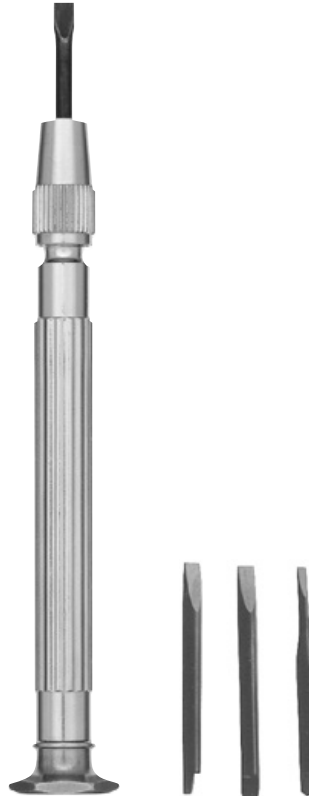


10 cm  
Carbon Steel

No. 30076-14

**4-in-1 Screwdriver**

With 4 hardened, interchangeable blades stored in handle: 1,5, 2, 2,5, and 3 mm.



10,5 cm  
Nickel handle

No. 30051-10

**Ceramic Blade Cutter**

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



Straight

13 cm  
Cutting Edge: 58 mm  
Ceramic blade  
with plastic handle

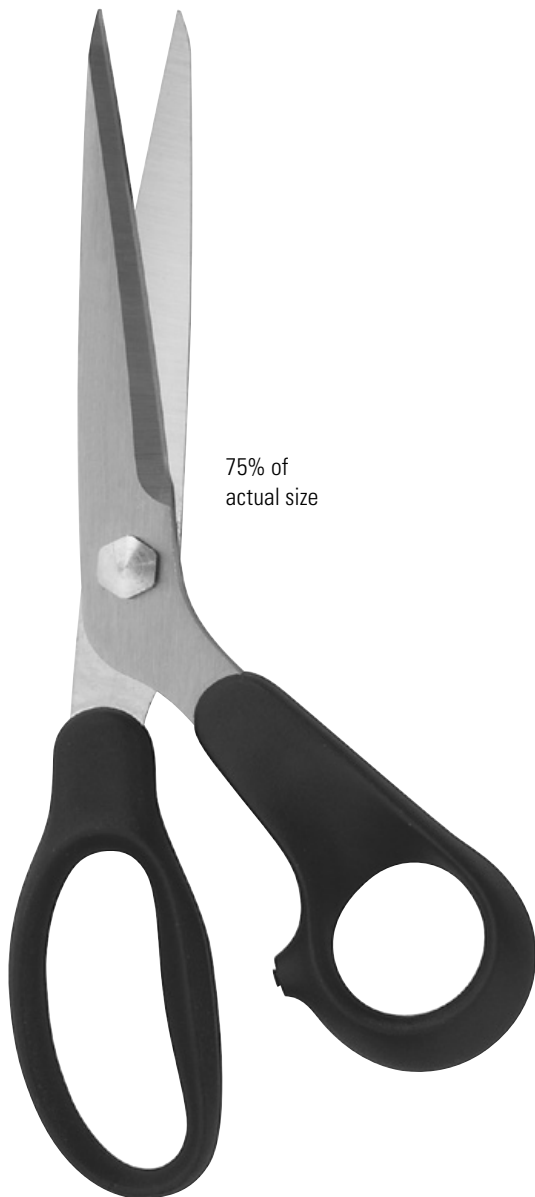
No. 10025-70

**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.



37000-00



75% of actual size

21 cm  
Stainless steel  
with plastic handle

No. 37500-00

21 cm  
Stainless steel  
with plastic handle

No. 37000-00

**Universal Scissors**

The scissor blades are made of high quality stainless-steel and guarantee a perfect cut. Handles are made of glass fiber reinforced polyamide.



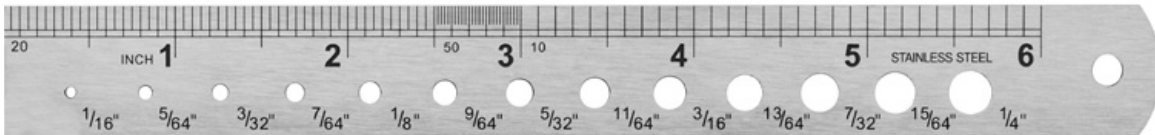
13 cm  
Stainless steel  
with plastic handle

No. 37500-05

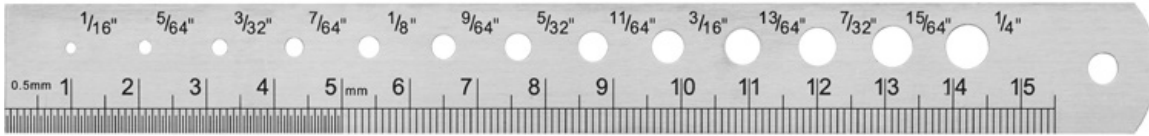
TOOLS



Ruler with Gauge Measurements



Front



Back

90% of actual size

Stainless steel

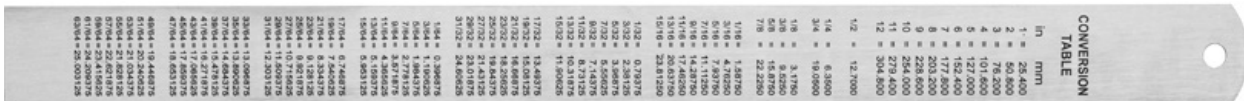
15 cm (6")

No. 30085-15

Ruler with Metric Conversion Table



Front



Back

50% of actual size

Stainless steel

30 cm (12")

No. 30085-30

Ruler Label

Used for stable measurements in all surgical platforms.

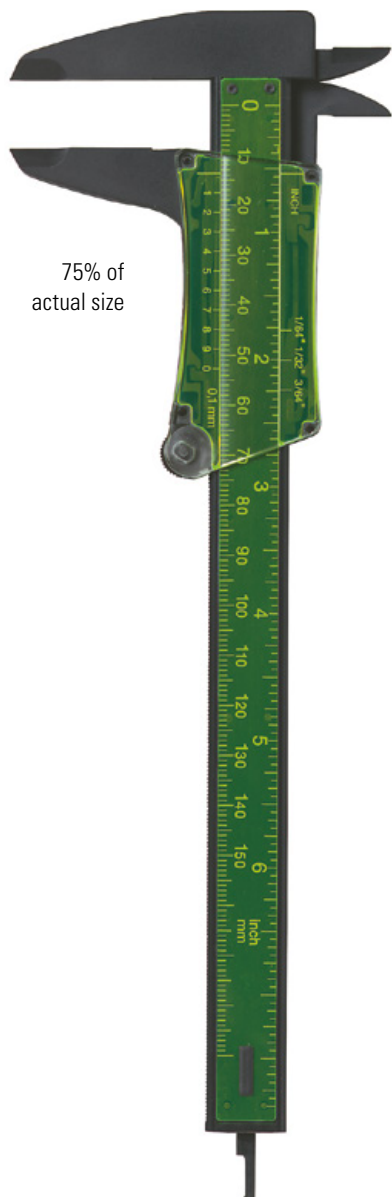
6 cm

Pkg. of 25 labels  
No. 29027-00



**Plastic Vernier Caliper**

Tough polymer is unbreakable under normal conditions. Measures inside, outside, step and depth, metric and inch to 0,1 mm or 1/64". Maximum measurement: 153 mm.



75% of actual size

Plastic

21 cm

No. 30087-20

**Digital Electronic Caliper**

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



70% of actual size

Stainless steel

23,5 cm

No. 30087-00

**Castroviejo Surgical Caliper**

Used for precise measurement during surgery.



0-20 mm with 0,5 mm divisions  
Tip diameter: 0,5 mm

8,5 cm

No. 18000-35

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



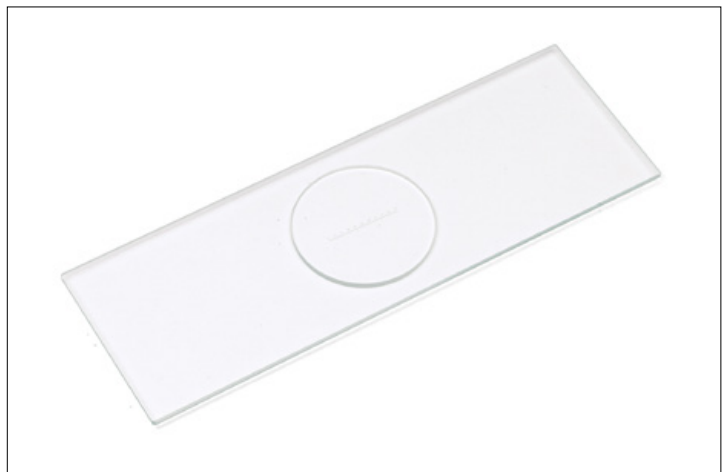
**Stage Micrometers**

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

1 mm with 100 divisions (0,01 mm)  
 No. 29025-02



### Electronic Clock / Triple Timer

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

LCD display: 4,5 x 4,5 cm  
7 x 8,5 x 1,5 cm  
AAA battery included

No. 27000-01



### Gold Wire Contacts

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

Total length: 16 mm (when connected together)  
Diameter: 1,2 mm  
Opening for wire: 0,63 mm

Pkg. of 50 male contacts  
No. 19003-00

Pkg. of 50 female contacts  
No. 19003-01

Enlarged 225%



**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

Magnification: 2,75x  
Working distance: 150 mm (6")

No. 28030-03

Magnification: 3,5x  
Working distance: 100 mm (4")

No. 28030-04

**VisorLIGHT™**

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



No. 28030-10

## Interchangeable Magnifier Headset with LED

Economical and fully interchangeable headband magnifier with LED light.

Includes:

- Multiple Lens Magnifications (1,0x, 1,5x, 2,0x, 2,5x, 3,5x)
- LED Light Source
- Tilting Functionality
- Cushioned Nose Pads
- Adjustable Headband
- Interchangeable Lens Frames
- Requires 3 AAA Batteries (Batteries not included)

MOST  
POPULAR



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



Magnification: 1x, 1,5x, 2x, 2,5x, and 3,5x  
Field of view: Variable  
Working distance: Variable

No. 28080-10

MAGNIFIERS

**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

Magnification: 3,5x  
Working distance: 300 mm (12")  
Weight: 77 g

No. 28050-35

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

**Spectacles Headband**

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



Material: Neoprene

No. 28080-90

### Eschenbach Max Detail Spectacles

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



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

Magnification: 2x  
 Field of view: 110 mm (4")  
 Working distance: 400 mm (16")  
 Weight: 49 g

No. 28030-20

### Eschenbach Clip-On LED Light

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



Gross Weight: 106 g (including batteries)

No. 28030-25



**Eschenbach Vario Flex with LED**

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

- Magnification: 2,5x
- Diopter: 6D
- Lens size: 76 mm
- Lens shape: Aspheric
- Working distance: Variable
- Lens material: PXM® lightweight lens with patented Ceratec® scratch-resistant coating
- Illumination: Latest SMD LED technology
- Power source: 120V & 220V

No. 28015-25



**Eschenbach Scribolux Magnifier**

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

- Magnification: 2,8x
- Diopter: 7/11D
- Lens size: 100 x 75 mm
- Lens shape: Aspheric
- Working distance: 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



## Optical Cleaning Kit

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

Kit includes:

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

No. 29000-10



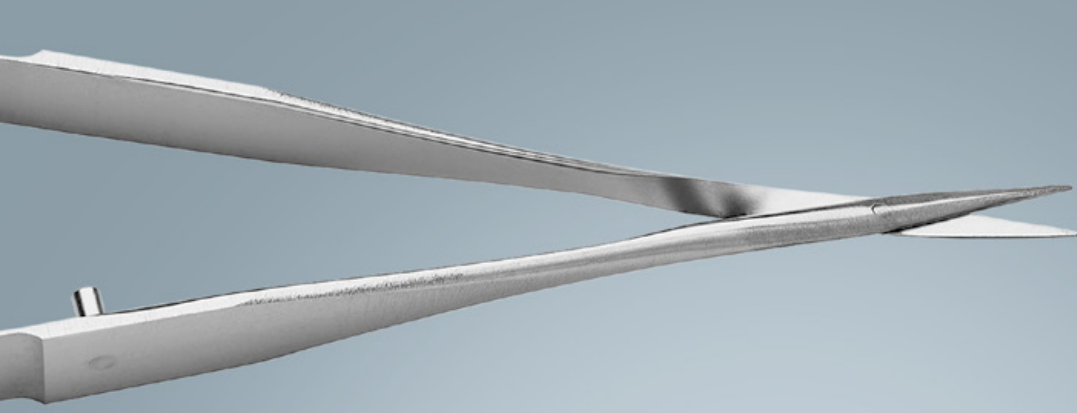
## Lens Paper

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

15 x 10 cm

Book of 50 sheets  
No. 29015-50





## Student Instruments

Scissors	Pages	179 – 184
Cutter	Page	184
Scalpel Handles	Page	185
Forceps	Pages	186 – 191
Hemostat, Needle Holder, Retractor, Vessel Dilator & Clamp	Pages	192 – 199



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.

**MOST POPULAR**  
91500-09



Straight  
Sharp/Sharp

9 cm  
Cutting edge: 5 mm  
Tip Ø: 0,35 mm

No. 91500-09



Curved  
Sharp/Sharp

9 cm  
Cutting edge: 5 mm  
Tip Ø: 0,35 mm

No. 91501-09

Fine Scissors

**MOST POPULAR**  
91460-11



Straight  
Sharp/Sharp

11,5 cm  
Cutting edge: 20 mm

No. 91460-11



Curved  
Sharp/Sharp

11,5 cm  
Cutting edge: 20 mm

No. 91461-11

Straight  
Sharp/Sharp

12 cm  
Cutting edge: 20 mm

No. 91460-12

Curved  
Sharp/Sharp

12 cm  
Cutting edge: 20 mm

No. 91461-12

Sanvenero



Straight  
Sharp/Sharp

14,5 cm  
Cutting edge: 30 mm

No. 91408-14

**%  
DISCOUNT**

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

STUDENT

## Surgical Scissors



Length (cm)	Cutting edge (mm)	Straight Sharp/Sharp	Straight Sharp/Blunt	Straight Blunt/Blunt
10,5	35	No. 91402-10	No. 91401-10	No. 91400-10
12	40	No. 91402-12	No. 91401-12	No. 91400-12
13	40	No. 91402-13	No. 91401-13	
14,5	45	No. 91402-14	No. 91401-14	No. 91400-14

%

DISCOUNT

Quantity discount for student instruments:

5-9 = 5%  
10+ = 10%

Per item, selection cannot be assorted for discount.



Length (cm)	Cutting edge (mm)	Curved Sharp/Sharp	Curved Sharp/Blunt
11,5	40	No. 91405-11	
12	40		No. 91404-12
13	40	No. 91405-13	No. 91404-13
14,5	45	No. 91405-14	No. 91404-14



## Wagner



Straight  
Sharp / Sharp

11,5 cm  
Cutting edge: 25 mm

No. 91405-10

## Spencer Ligature



Straight  
Sharp / Sharp

9 cm  
Cutting edge: 20 mm

No. 91476-09

**%**  
**DISCOUNT**

**Quantity discount  
for student  
instruments:**

5-9 = 5 %  
10+ = 10 %

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

STUDENT

**Lister Scissors**

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



**Mayo**

90% of actual size



**%  
DISCOUNT**

**Quantity discount for student instruments:**

5-9 = 5%  
10+ = 10%

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

STUDENT



Angled to side  
Blunt/Blunt

14 cm  
Cutting edge: 35 mm

No. 91413-14



Angled to side  
Blunt/Blunt

18 cm  
Cutting edge: 45 mm

No. 91413-18



Angled to side  
Blunt/Blunt

20 cm  
Cutting edge: 50 mm

No. 91413-20



Curved  
Sharp/Blunt

14,5 cm  
Cutting edge: 50 mm

No. 91409-15



Straight  
Blunt/Blunt

17 cm  
Cutting edge: 50 mm

No. 91410-17



Curved  
Blunt/Blunt

17 cm  
Cutting edge: 50 mm

No. 91411-17

Metzenbaum Baby

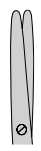


Curved  
Blunt/Blunt

14,5 cm  
Cutting edge: 30 mm

No. 91419-14

Metzenbaum



Straight  
Blunt/Blunt

14,5 cm  
Cutting edge: 35 mm

No. 91416-14



Curved  
Blunt/Blunt

18 cm  
Cutting edge: 35 mm

No. 91417-18

**%  
DISCOUNT**

**Quantity discount for student instruments:**

5-9 = 5 %  
10+ = 10 %

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

STUDENT

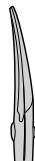


**Heavy Scissors**

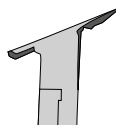
Curved  
Heavy Blades  
Sharp/Sharp  
10,5 cm  
Cutting edge: 30 mm  
No. 91405-10

**Bone Scissors**

For cutting fine bone.



Curved  
9 cm  
Cutting edge: 9 mm  
No. 91604-09

**Bone Cutter**

Angled 30°  
11 cm  
Cutting edge: 19,5 mm  
Blue Plastic Handle  
No. 91601-11



**%**  
**DISCOUNT**

**Quantity discount  
for student  
instruments:**

5-9 = 5%  
10+ = 10%

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

**Scalpel Handle #4**



For scalpel blades,  
see page 59.

#4  
13 cm  
No. 91004-13

**Standard Scalpel Handle #3**



For scalpel blades,  
see page 60.

#3  
12 cm  
No. 91003-12

**%  
DISCOUNT**

**Quantity discount  
for student  
instruments:**

5-9 = 5 %  
10+ = 10 %

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

STUDENT

**Dumont #5**

MOST POPULAR



Standard tip  
Straight

11 cm  
Inox  
0,1 x 0,06 mm

No. 91150-20

**Dumont #7**

MOST POPULAR



Standard tip  
Curved

11 cm  
Inox  
0,17 x 0,1 mm

No. 91197-00

**%  
DISCOUNT**

**Quantity discount  
for student  
instruments:**

5-9 = 5%  
10+ = 10%

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

STUDENT

Fine Forceps Straight



F · S · T 91115-10  
CE



Straight  
11 cm  
0,2 x 0,1 mm  
No. 91115-10

Fine Forceps Broad Shanks



F · S · T 91113-10  
CE



Broad Shanks  
12 cm  
0,2 x 0,2 mm  
No. 91113-10

Fine Forceps Curved



F · S · T 91117-10  
CE



Curved  
12 cm  
0,2 x 0,2 mm  
No. 91117-10

Fine Forceps Angled



F · S · T 91110-10  
CE



Angled  
11 cm  
0,2 x 0,2 mm  
No. 91110-10

**%  
DISCOUNT**

Quantity discount for student instruments:

- 5-9 = 5%
- 10+ = 10%

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

STUDENT

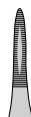
**Feilchenfeld**



Straight

9,5 cm  
Tip Ø: 0,75 mm

No. 91139-09



Straight

11,5 cm  
Tip Ø: 1 mm

No. 91139-12

**Splinter Forceps**



Straight  
Sharp

10,5 cm  
Tip Ø: 0,3 mm

No. 91156-11

**%  
DISCOUNT**

**Quantity discount  
for student  
instruments:**

5-9 = 5%  
10+ = 10%

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

STUDENT

**Micro Adson**



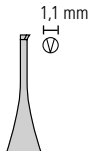
91118-12



80% of actual size



Serrated  
12 cm  
Tip width: 0,7 mm  
No. 91118-12



1x2 teeth  
12 cm  
Tip width: 1,1 mm  
No. 91119-12

**Adson**

Wide, strong grip with narrow tips.



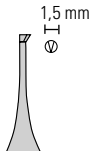
91106-12



80% of actual size

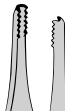


Serrated  
12 cm  
Tip width: 1,5 mm  
No. 91106-12



1x2 teeth  
12 cm  
Tip width: 1,5 mm  
No. 91127-12

**Adson-Brown**



Shark teeth  
12 cm  
Tip width: 2,5 mm  
No. 91162-12

**Adson with Cross Serrations**



1x2 teeth  
Cross-serrations  
12 cm  
Tip width: 1,3 mm  
No. 91427-12



Quantity discount for student instruments:

5-9 = 5%  
10+ = 10%

Per item, selection cannot be assorted for discount.

STUDENT

## Standard Pattern

Broad pattern with strong spring action.

MOST  
POPULAR

91100-12

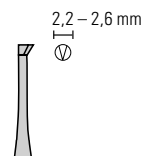
### Anatomical Standard Pattern



Straight  
Serrated

Tip width (mm)	Length (cm)	Item
2,5	11,5	No. 91100-12
2,7	13	No. 91100-13
3	14,5	No. 91100-14
3,5	16	No. 91100-16
4	17	No. 91100-17

### Surgical Standard Pattern



Straight  
1x2 teeth

Tip width (mm)	Length (cm)	Item
2,2	12	No. 91121-12
2,4	13	No. 91121-13
2,6	14,5	No. 91121-14
2,8	15,5	No. 91121-15
3	16	No. 91121-16
3,5	18	No. 91121-18
4	20	No. 91121-20
4,5	25	No. 91121-25



%  
DISCOUNT

Quantity discount  
for student  
instruments:

5-9 = 5%  
10+ = 10%

Per item, selection  
cannot be assorted  
for discount.

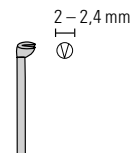
### Anatomical Narrow Pattern



Straight  
Serrated

Tip width (mm)	Length (cm)	Item
1,5	11,5	No. 91102-12
2,1	13	No. 91102-13
2,2	14,5	No. 91102-14
2,3	16	No. 91102-16

### Surgical Narrow Pattern



Straight  
1x2 teeth

Tip width (mm)	Length (cm)	Item
2	11,5	No. 91123-12
2,2	14,5	No. 91123-14
2,4	16	No. 91123-16

STUDENT

Semken



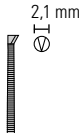
Straight  
11,5 cm  
Tip width: 1,2 mm  
No. 91108-12

Straight  
14,5 cm  
Tip width: 2,2 mm  
No. 91108-14

Gillies

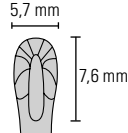


80% of actual size



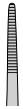
1x2 teeth  
Cross-Serrated  
15,5 cm  
Tip width: 2,1 mm  
No. 91128-15

Russian



15 cm  
Tip dimensions: 7,6 x 5,7 mm  
No. 91126-15

McIndoe



Serrated  
15 cm  
Tip width: 1,2 mm  
No. 91138-15



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

STUDENT



**Halsted-Mosquito**

**Hartmann**



**%  
DISCOUNT**

**Quantity discount  
for student  
instruments:**

5-9 = 5%  
10+ = 10%

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



Straight  
Serrated

12,5 cm

No. 91308-12



Curved  
Serrated

12,5 cm

No. 91309-12



Curved  
1x2 teeth

12 cm  
Tip width: 1,9 mm

No. 91331-12



Curved  
Serrated

10 cm  
Tip width: 1,6 mm

No. 91303-10

STUDENT

**Crile**

**Kelly**



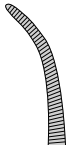
80% of actual size



Straight  
Serrated

14 cm  
Tip width: 1,3 mm

No. 91304-14



Curved  
Serrated

14 cm  
Tip width: 1,3 mm

No. 91305-14

Straight  
Serrated

16 cm  
Tip width: 1,7 mm

No. 91304-16

Curved  
Serrated

16 cm  
Tip width: 1,7 mm

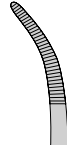
No. 91305-16



Straight  
Serrated

14,5 cm  
Tip width: 1,6 mm

No. 91318-14



Curved  
Serrated

14,5 cm  
Tip width: 1,8 mm

No. 91319-14

**%  
DISCOUNT**

**Quantity discount for student instruments:**

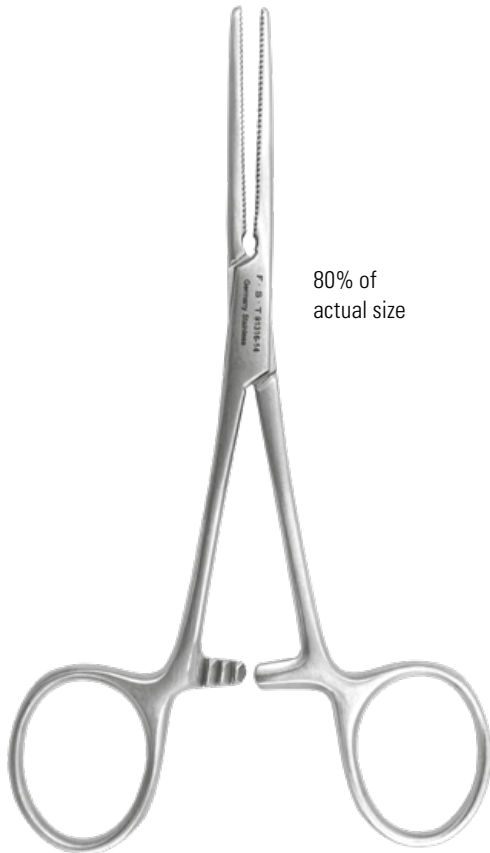
5-9 = 5%  
10+ = 10%

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

STUDENT

**Rochester-Pean**

**Pean**



80% of actual size

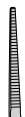


**%  
DISCOUNT**

**Quantity discount for student instruments:**

5-9 = 5%  
10+ = 10%

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



Straight  
Serrated

14 cm  
Tip width: 2 mm

No. 91316-14



Curved  
Serrated

14 cm  
Tip width: 2 mm

No. 91317-14

Straight  
Serrated

16 cm  
Tip width: 2,5 mm

No. 91316-16

Curved  
Serrated

16 cm  
Tip width: 2,5 mm

No. 91317-16



Straight  
Serrated  
Narrow

14 cm  
Tip width: 2 mm

No. 91322-14



Curved  
Serrated  
Narrow

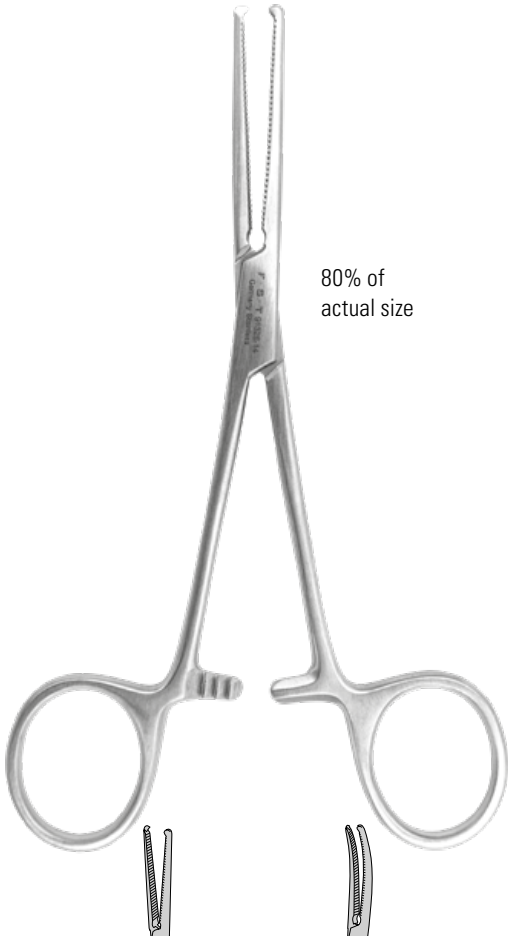
14 cm  
Tip width: 2 mm

No. 91323-14

STUDENT

Ochsner-Kocher

Kocher



80% of actual size

Straight  
Serrated  
1x2 teeth  
14 cm  
Tip width: 2,2 mm  
No. 91328-14

Curved  
Serrated  
1x2 teeth  
14 cm  
Tip width: 2,2 mm  
No. 91329-14

Straight  
Serrated  
1x2 teeth  
16 cm  
Tip width: 3 mm  
No. 91328-16

Curved  
Serrated  
1x2 teeth  
16 cm  
Tip width: 3 mm  
No. 91329-16



Straight  
Serrated  
Narrow 1x2 teeth  
14 cm  
Tip width: 2,2 mm  
No. 91330-14

Curved  
Serrated  
Narrow 1x2 teeth  
14 cm  
Tip width: 2,2 mm  
No. 91331-14

**%**  
**DISCOUNT**

Quantity discount for student instruments:

5-9 = 5 %  
10+ = 10 %

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

STUDENT

**Backhaus Towel Clamp**



**Tohoku Towel Clamp**



**%  
DISCOUNT**

**Quantity discount  
for student  
instruments:**

5-9 = 5%  
10+ = 10%

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

STUDENT



9 cm

No. 91195-09



11 cm

No. 91195-11



13 cm

No. 91195-13



Serrated

10 cm

Tip width: 2,4 mm

No. 91194-10



Serrated

13 cm

Tip width: 2,8 mm

No. 91194-13

Lorna Towel Clamp



Serrated  
13 cm  
Tip width: 7 mm  
No. 91196-13

Babcock



Serrated  
16 cm  
Tip width: 6 mm  
No. 91393-16

**%  
DISCOUNT**

**Quantity discount  
for student  
instruments:**

5-9 = 5 %  
10+ = 10 %

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

STUDENT

**Pin Holder**



**%  
DISCOUNT**

**Quantity discount  
for student  
instruments:**

5-9 = 5%  
10+ = 10%

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

**Halsey Needle Holder**

**MOST  
POPULAR**



80% of  
actual size

**Mayo-Hegar**



80% of  
actual size

STUDENT

For pins, see  
page 113.

For suture needles,  
see page 120 & 121.

For suture needles,  
see page 120 & 121.



Straight

13 cm  
Tip width: 1,5 mm

clamping length: 18 mm  
with lock  
without scissors

No. 91201-13



Straight

16 cm  
Tip width: 2,6 mm

clamping length: 21 mm  
with lock  
without scissors

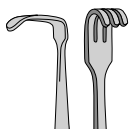
No. 91204-16

Nickel-plated  
7,5 cm  
Jaw opening: 0-1 mm  
No. 91606-07

**Senn-Miller**

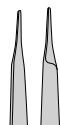


16 cm  
3 sharp teeth 7 x 8 mm  
1 blunt tooth 18 x 6 mm  
No. 91790-16



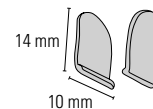
16 cm  
3 blunt teeth 7 x 8 mm  
1 blunt tooth 18 x 6 mm  
No. 91791-16

**Vessel Dilator**



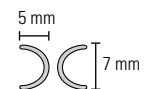
Angled 10°  
11 cm  
Tip diameter: 0,3 mm  
No. 91815-11

**Spring-Loaded Retractor**



Curved atraumatic blades  
8,5 cm  
Maximum spread: 3 cm  
Blade dimensions: 14 x 10 mm  
No. 91706-05

**Barraquer**



3 cm  
Maximum spread: 1,1 cm  
Tip dimensions: 5 x 7 mm  
No. 91700-03

**Dieffenbach**



Straight  
35 mm  
Strong pressure  
No. 91850-35

**%  
DISCOUNT**

**Quantity discount  
for student  
instruments:**

5-9 = 5 %  
10+ = 10 %

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

STUDENT





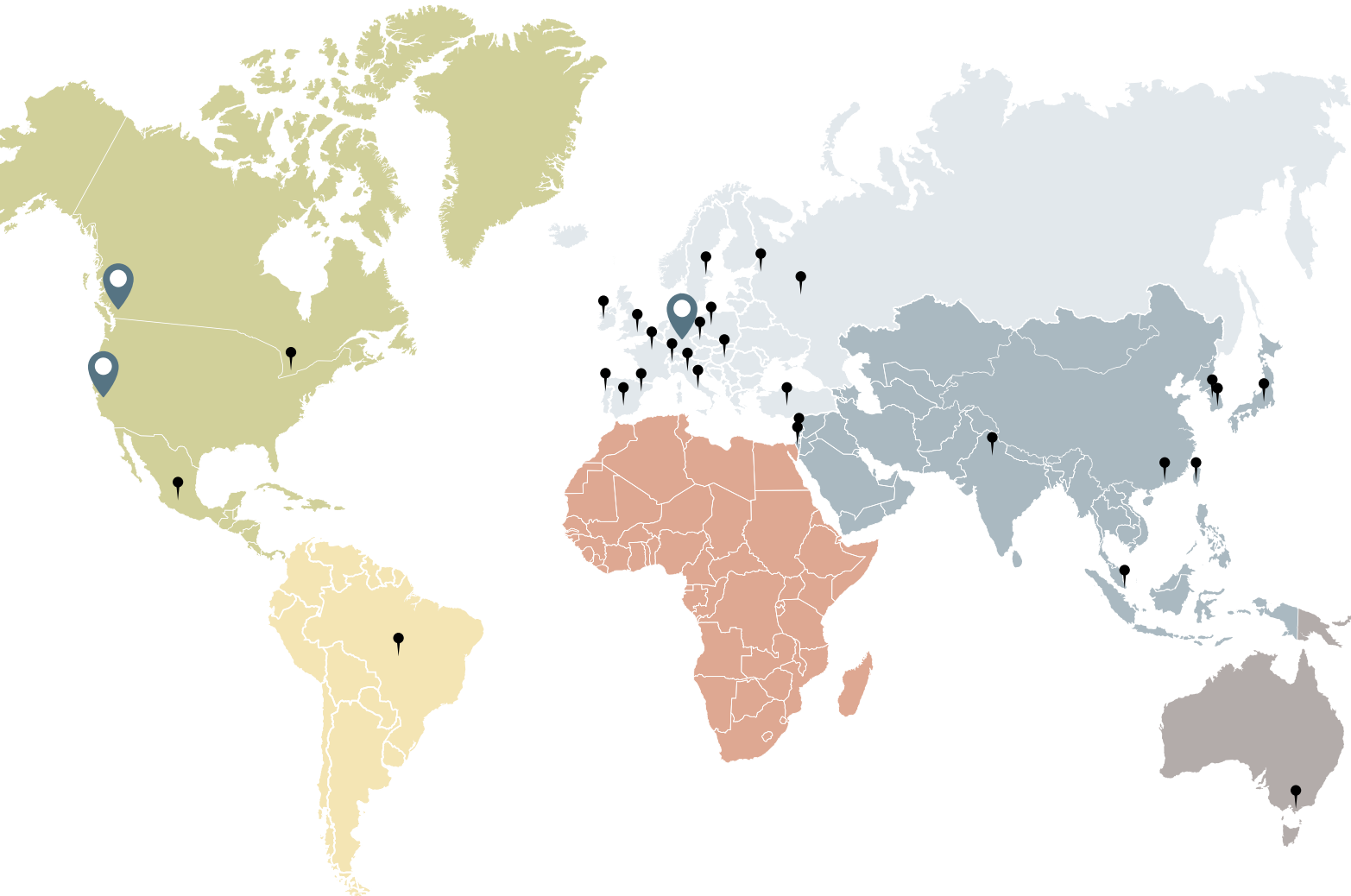
## Reference Pages

Worldwide Locations	Page	201
Scissors Test	Page	202
Features and Alloys	Page	203
Maintenance and Care	Pages	204 – 205
Quality Control	Page	206
Student Line	Page	207
Selection	Page	208
Dumont	Page	209
Numerical Index	Pages	210 – 213
Alphabetical Index	Pages	214 – 219
Additional Information	Page	220

# 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.

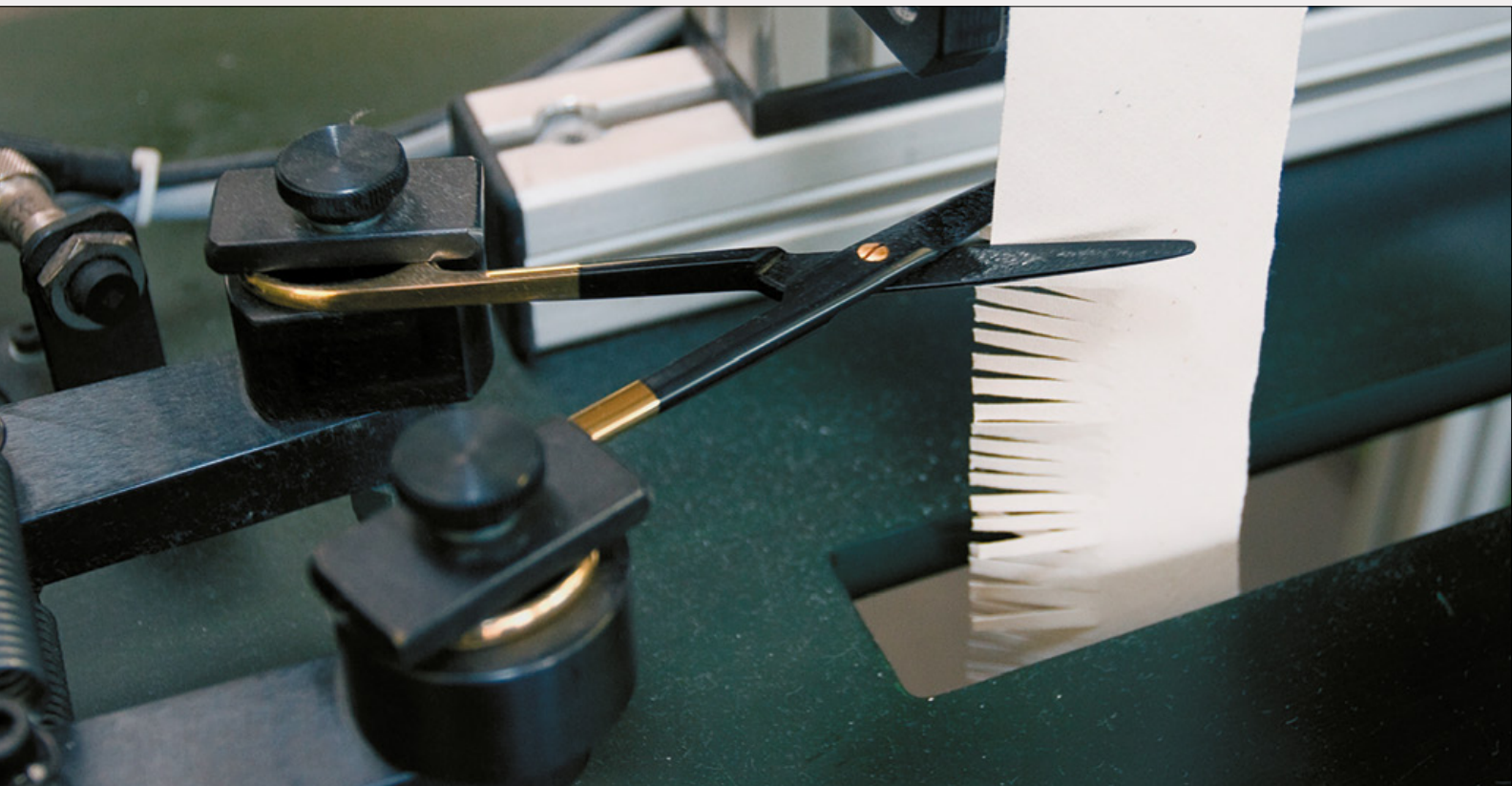
WORLDWIDE

## 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.

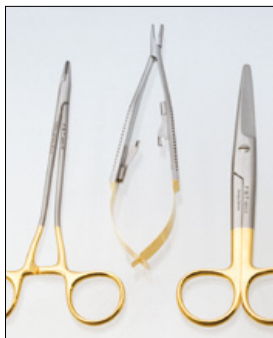


***The cutting life is more than doubled with the addition of ToughCut blades to stainless steel, and over six times longer with CeramaCut blades.***

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 203 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 43
- Scissors: pages 10, 20–21, 23, 30–32, 34 and 46
- Forceps: page 88
- Needles: page 113
- Needle Holders: pages 115–119
- Burrs: page 162

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.

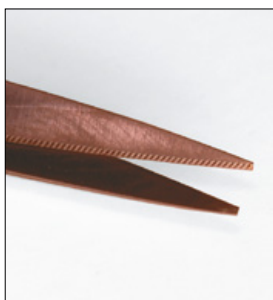
For ToughCut scissors that last almost two times longer, select ToughCut with tungsten carbide cutting edges.

- 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 56
- Ceramic Cutter: page 166
- Ceramic Coated Forceps: pages 65 and 71
- 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 67, 71, 84, 90, 91 and 94
- Probes, Y-Hook and Spatula: page 106
- Vascular Clamps: pages 136–137

Look for this symbol



# 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 154 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 153 and 155.

### 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 152. Instrument cases are available, see pages 157 – 160.

### 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.

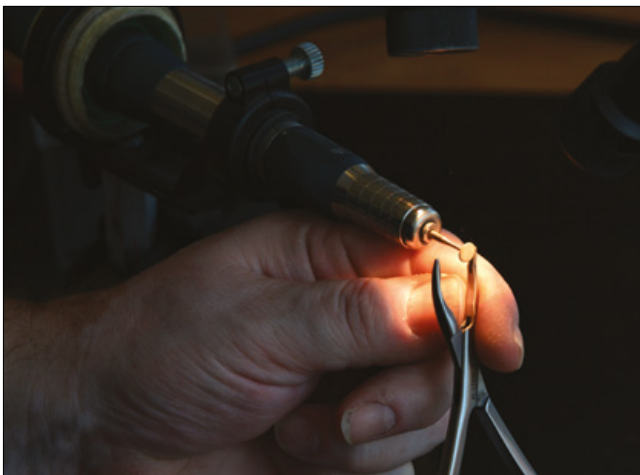
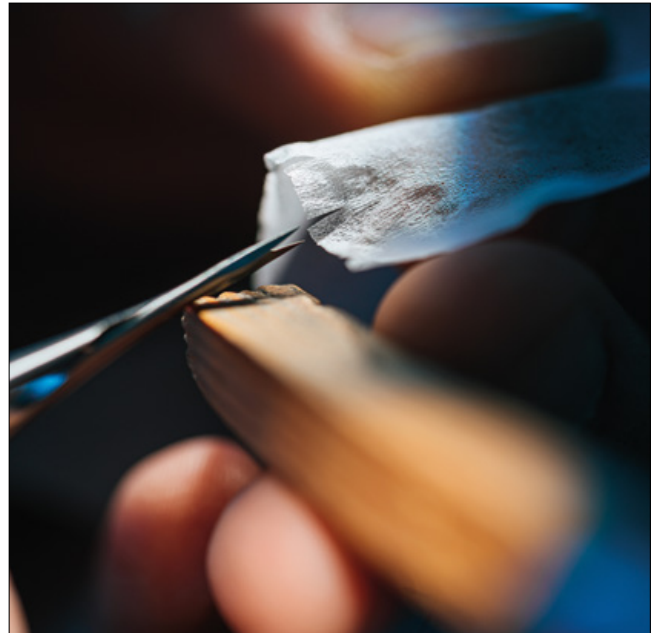
Although stainless steel is corrosive resistant, it can still rust or stain if handled improperly. Under unfavorable conditions instruments may oxidize because stainless steel that is exposed to physical, thermal, or chemical manipulations may lose some of its stainless properties.

## 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.com](http://finescience.com) for more information.

### Features:

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



## 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 167

Hemostatic Forceps: page 97

Needle Holders: pages 117-118

Ligation Aid: page 139



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 209, 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°.
#5AC	Self-closing Anti-Capillary forceps.
<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.

Item No.	Page No.										
		10032-13.....	104	10099-15.....	110	11002-12.....	90	11028-15.....	93	11151-10.....	84
		10033-13.....	104	10100-30.....	56	11002-13.....	90	11029-14.....	92	11152-10.....	84
		10035-00.....	58	10100-45.....	56	11002-14.....	90	11030-12.....	89	11153-10.....	84
00071-14.....	135	10035-05.....	58	10110-01.....	55	11002-16.....	90	11031-15.....	93	11154-10.....	84
00072-14.....	135	10035-10.....	58	10110-03.....	55	11002-18.....	90	11032-12.....	88	11155-10.....	84
00081-00.....	161	10035-12.....	58	10110-05.....	55	11002-20.....	90	11036-20.....	91	11158-10.....	84
00108-11.....	79	10035-15.....	58	10110-07.....	55	11002-25.....	90	11036-90.....	91	11159-10.....	84
00109-11.....	79	10035-20.....	58	10130-05.....	113	11003-12.....	90	11040-08.....	83	11160-10.....	84
00125-11.....	140	10035-25.....	58	10130-10.....	113	11003-13.....	90	11041-08.....	83	11200-00.....	74
00126-11.....	140	10035-30.....	58	10130-20.....	113	11003-14.....	90	11042-08.....	83	11200-10.....	74
00272-13.....	81	10050-00.....	57	10140-01.....	105	11003-16.....	90	11043-08.....	83	11200-12.....	74
00276-13.....	140	10052-11.....	57	10140-02.....	105	11003-18.....	90	11049-10.....	84	11200-14.....	74
00325-00.....	134	10053-09.....	57	10140-03.....	105	11003-20.....	90	11050-10.....	84	11200-33.....	73
00396-01.....	134	10053-13.....	57	10140-04.....	105	11006-12.....	88	11051-10.....	84	11203-23.....	73
00398-02.....	134	10055-12.....	52	10152-30.....	54	11006-15.....	82	11052-10.....	84	11203-25.....	73
00400-03.....	134	10056-12.....	52	10157-13.....	54	11008-13.....	91	11053-10.....	84	11210-10.....	73
00574-11.....	143	10058-15.....	53	10157-15.....	54	11008-15.....	91	11054-10.....	84	11210-20.....	73
00632-11.....	79	10059-13.....	52	10157-18.....	54	11009-13.....	91	11055-10.....	84	11215-01.....	42
00649-11.....	79	10059-15.....	53	10160-13.....	107	11009-15.....	91	11062-10.....	85	11215-02.....	42
10000-10.....	62	10060-00.....	62	10162-12.....	103	11010-17.....	95	11063-07.....	81	11220-21.....	72
10000-11.....	62	10060-13.....	62	10165-11.....	106	11011-17.....	95	11064-07.....	83	11223-20.....	72
10000-15.....	62	10061-12.....	105	10166-11.....	106	11012-18.....	95	11065-07.....	83	11231-20.....	70
10002-00.....	61	10062-12.....	105	10167-11.....	106	11012-21.....	95	11066-07.....	83	11231-30.....	70
10002-50.....	61	10063-15.....	104	10315-12.....	58	11012-25.....	95	11067-07.....	83	11241-30.....	72
10003-12.....	60	10064-14.....	105	10316-14.....	58	11013-18.....	95	11069-08.....	83	11242-40.....	72
10003-13.....	60	10065-15.....	104	10317-14.....	58	11013-21.....	95	11070-08.....	83	11251-10.....	67
10004-13.....	59	10066-15.....	104	10318-14.....	58	11014-18.....	94	11071-10.....	85	11251-20.....	67
10006-12.....	63	10073-14.....	52	10321-08.....	111	11015-18.....	94	11072-11.....	87	11251-21.....	68
10007-12.....	61	10075-16.....	51	10360-13.....	111	11016-17.....	95	11073-10.....	86	11251-23.....	67
10007-16.....	61	10080-05.....	51	10370-13.....	53	11017-17.....	95	11074-02.....	86	11251-30.....	67
10009-13.....	59	10081-10.....	51	10370-17.....	111	11018-12.....	88	11075-00.....	86	11251-33.....	69
10010-00.....	60	10082-15.....	51	10370-18.....	111	11019-12.....	88	11080-02.....	94	11251-35.....	69
10010-10.....	63	10083-20.....	51	10370-19.....	111	11020-12.....	88	11083-07.....	80	11252-00.....	65
10011-00.....	60	10087-12.....	108	11000-12.....	90	11021-12.....	92	11084-07.....	80	11252-20.....	67
10011-10.....	63	10088-15.....	107	11000-13.....	90	11021-14.....	92	11090-09.....	80	11252-21.....	68
10012-00.....	60	10089-11.....	108	11000-14.....	90	11021-15.....	92	11090-10.....	80	11252-23.....	67
10015-00.....	60	10090-13.....	107	11000-16.....	90	11022-12.....	88	11091-15.....	101	11252-30.....	67
10015-10.....	63	10090-17.....	107	11000-18.....	90	11022-14.....	92	11092-12.....	101	11252-40.....	67
10020-00.....	59	10091-12.....	108	11000-20.....	90	11022-15.....	92	11093-10.....	81	11252-50.....	65
10021-00.....	59	10092-12.....	108	11000-25.....	90	11023-10.....	92	11095-09.....	100	11253-10.....	68
10022-00.....	59	10093-13.....	108	11000-30.....	90	11023-12.....	92	11095-13.....	100	11253-20.....	66
10023-00.....	59	10094-13.....	108	11001-12.....	90	11023-14.....	92	11096-10.....	101	11253-21.....	66
10025-45.....	56	10095-12.....	51	11001-13.....	90	11023-15.....	92	11096-13.....	101	11253-25.....	66
10025-50.....	56	10096-16.....	51	11001-14.....	90	11024-18.....	95	11101-09.....	87	11253-27.....	69
10025-70.....	166	10097-16.....	51	11001-16.....	90	11025-18.....	95	11103-09.....	87	11253-29.....	66
10030-13.....	104	10098-06.....	109	11001-18.....	90	11026-15.....	93	11106-09.....	87	11254-20.....	65
10031-13.....	104	10099-12.....	110	11001-20.....	90	11027-12.....	88	11150-10.....	84	11255-20.....	67

11258-20.....74	11700-00.....86	12051-08.....120	14000-14.....29	14019-13.....32	14084-09.....15
11260-20.....70	11700-01.....86	12051-10.....120	14000-16.....29	14019-14.....32	14085-08.....15
11270-20.....71	11700-02.....86	12051-11.....120	14000-18.....29	14019-18.....32	14085-09.....15
11271-30.....71	11700-03.....86	12052-08.....120	14000-20.....29	14024-14.....33	14086-09.....27
11272-30.....71	11700-04.....86	12052-09.....120	14001-12.....29	14028-10.....22	14088-10.....18
11272-40.....71	11900-14.....82	12052-10.....120	14001-13.....29	14029-10.....22	14090-09.....16
11272-50.....71	11911-11.....75	12052-11.....120	14001-14.....29	14037-10.....28	14090-11.....16
11273-20.....66	11915-11.....75	12060-01.....114	14001-16.....29	14040-10.....19	14091-09.....16
11273-22.....66	11917-12.....75	12060-02.....114	14001-18.....29	14041-10.....19	14091-11.....16
11274-20.....71	11923-13.....76	12061-01.....114	14002-12.....29	14054-13.....30	14094-11.....16
11280-11.....143	11980-13.....76	12061-02.....114	14002-13.....29	14058-09.....20	14095-11.....16
11281-11.....143	11988-01.....76	12075-12.....114	14002-14.....29	14058-11.....20	14101-14.....31
11282-11.....143	11988-02.....76	12075-14.....114	14002-16.....29	14059-09.....20	14105-12.....25
11293-00.....70	11988-03.....76	12076-12.....114	14003-12.....29	14059-11.....20	14106-09.....28
11294-00.....72	11990-14.....75	12102-12.....117	14003-13.....29	14060-09.....17	14108-09.....28
11295-00.....67	11991-14.....75	12500-12.....116	14003-14.....29	14060-10.....17	14110-15.....34
11295-10.....67	11992-12.....75	12501-13.....116	14003-16.....29	14060-11.....17	14110-17.....34
11295-20.....65	12001-13.....116	12502-12.....117	14003-18.....29	14061-09.....17	14111-15.....34
11295-51.....67	12002-12.....117	12502-14.....117	14003-20.....29	14061-10.....17	14111-17.....34
11297-00.....71	12002-14.....117	12503-15.....118	14004-12.....29	14061-11.....17	14116-14.....33
11297-10.....71	12003-15.....118	12504-15.....118	14004-13.....29	14062-09.....17	14116-18.....33
11370-31.....78	12004-16.....118	12505-15.....119	14004-14.....29	14062-10.....17	14117-14.....33
11370-32.....78	12004-18.....118	12510-14.....115	14004-16.....29	14063-09.....17	14117-18.....33
11370-40.....78	12005-15.....119	12512-12.....117	14004-18.....29	14063-11.....17	14130-17.....30
11370-42.....78	12010-14.....115	12565-14.....115	14005-12.....29	14064-11.....24	14131-14.....31
11373-12.....78	12018-12.....123	13002-10.....100	14005-13.....29	14065-11.....24	14160-10.....17
11373-22.....78	12020-00.....125	13003-10.....100	14005-14.....29	14066-11.....24	14161-10.....17
11399-80.....78	12020-09.....125	13004-14.....98	14005-16.....29	14067-11.....24	14171-10.....28
11399-87.....78	12022-09.....125	13005-14.....98	14007-14.....30	14068-12.....19	14173-12.....25
11412-11.....77	12022-19.....125	13006-12.....96	14008-14.....29	14069-12.....19	14184-09.....15
11413-11.....77	12023-00.....125	13007-12.....96	14010-15.....34	14070-12.....19	14185-09.....15
11445-12.....77	12028-12.....123	13008-12.....97	14010-17.....34	14071-12.....19	14200-21.....35
11480-11.....77	12029-12.....123	13009-12.....97	14011-15.....34	14072-10.....27	14370-22.....18
11485-11.....77	12030-01.....124	13010-12.....97	14011-17.....34	14074-09.....23	14370-23.....18
11487-11.....77	12030-04.....124	13011-12.....97	14012-15.....35	14074-11.....23	14501-14.....30
11506-12.....88	12030-20.....124	13012-12.....97	14012-17.....35	14075-09.....23	14502-14.....30
11515-02.....43	12030-22.....124	13013-14.....99	14013-15.....35	14075-11.....23	14504-14.....30
11602-14.....90	12030-23.....124	13014-14.....99	14013-17.....35	14076-09.....26	14505-14.....30
11602-16.....94	12035-00.....124	13015-14.....99	14014-17.....35	14077-09.....24	14508-15.....32
11608-15.....91	12040-01.....123	13018-14.....98	14015-17.....35	14077-10.....24	14509-15.....32
11616-15.....89	12040-02.....123	13019-14.....98	14016-14.....33	14078-10.....22	14510-15.....34
11617-12.....89	12040-03.....123	13020-12.....96	14016-18.....33	14079-10.....22	14510-17.....34
11626-11.....69	12050-01.....121	13021-12.....96	14017-14.....33	14080-11.....27	14511-15.....34
11627-12.....89	12050-02.....121	13108-12.....97	14017-18.....33	14081-09.....26	14511-17.....34
11650-10.....84	12050-03.....121	13109-12.....97	14018-13.....32	14082-09.....26	14512-15.....34
11651-10.....84	12050-10.....121	14000-12.....29	14018-14.....32	14083-08.....15	14512-17.....34
11652-10.....84	12050-20.....121	14000-13.....29	14018-18.....32	14084-08.....15	14518-14.....32

14518-18.....32	15020-15.....7	16022-15.....39	17010-07.....129	18026-10.....82	18061-18.....145
14519-14.....32	15021-15.....7	16023-15.....39	17011-10.....131	18030-30.....121	18061-20.....145
14519-18.....32	15023-10.....9	16025-14.....49	17012-11.....132	18030-40.....121	18061-22.....145
14531-09.....31	15024-10.....9	16030-12.....46	17012-13.....132	18030-50.....121	18061-24.....145
14558-09.....21	15025-10.....9	16030-16.....46	17017-10.....131	18030-60.....121	18061-38.....145
14558-11.....21	15027-18.....12	16044-10.....46	17018-11.....132	18030-70.....121	18061-50.....145
14559-09.....21	15028-18.....12	16050-15.....47	17020-17.....126	18030-80.....121	18061-75.....145
14559-11.....21	15030-14.....13	16060-11.....50	17021-13.....126	18035-01.....165	18062-12.....139
14568-09.....20	15031-14.....13	16101-10.....44	17022-13.....126	18035-02.....165	18062-13.....139
14568-12.....20	15032-08.....14	16102-11.....44	17023-13.....126	18035-03.....165	18063-13.....139
14569-09.....20	15032-13.....14	16103-11.....43	17370-53.....128	18035-05.....165	18064-20.....145
14569-12.....20	15033-09.....9	16104-14.....48	18000-00.....164	18035-35.....165	18065-20.....145
14574-09.....23	15036-14.....13	16104-19.....48	18000-01.....164	18035-50.....165	18067-11.....103
14574-11.....23	15037-14.....13	16105-16.....48	18000-02.....164	18035-80.....165	18080-01.....138
14575-09.....23	15040-11.....9	16106-14.....48	18000-03.....164	18036-19.....165	18080-02.....138
14575-11.....23	15042-11.....9	16107-14.....41	18000-04.....164	18036-22.....165	18080-03.....138
14958-09.....21	15070-08.....5	16109-14.....41	18000-10.....142	18036-24.....165	18090-00.....161
14958-11.....21	15071-08.....5	16120-14.....36	18000-15.....149	18038-45.....137	18105-01.....165
14959-09.....21	15110-08.....12	16121-14.....36	18000-18.....162	18039-45.....137	18105-03.....165
14959-11.....21	15111-08.....12	16130-15.....47	18000-20.....162	18040-00.....138	18106-01.....165
15000-00.....4	15123-12.....6	16140-11.....45	18000-30.....147	18040-11.....134	18131-12.....140
15000-01.....6	15124-12.....6	16141-11.....45	18000-35.....169	18040-14.....135	18132-12.....140
15000-02.....6	15300-00.....14	16142-11.....45	18000-45.....154	18040-22.....134	18144-30.....137
15000-03.....3	15370-50.....8	16143-12.....45	18000-46.....154	18040-33.....134	18155-13.....85
15000-04.....3	15370-52.....8	16144-13.....45	18000-50.....154	18050-28.....137	18196-10.....165
15000-08.....3	15371-92.....12	16150-24.....49	18000-51.....154	18050-35.....137	18200-01.....133
15000-10.....4	15396-00.....5	16152-11.....46	18004-18.....162	18050-50.....137	18200-02.....133
15000-11.....6	15396-01.....5	16152-12.....46	18004-23.....162	18051-28.....137	18200-03.....133
15000-12.....6	15400-12.....7	16152-15.....46	18004-27.....162	18051-35.....137	18200-04.....133
15001-08.....3	15401-12.....7	16220-14.....36	18004-50.....162	18051-50.....137	18200-05.....133
15002-08.....3	15514-12.....10	16221-14.....36	18010-00.....163	18052-01.....137	18200-06.....133
15003-08.....4	15610-08.....6	17000-01.....127	18010-01.....163	18052-02.....137	18200-07.....133
15004-08.....4	15615-08.....6	17000-02.....127	18010-02.....163	18052-03.....137	18200-08.....133
15005-08.....4	15617-08.....6	17000-03.....127	18019-00.....163	18052-12.....139	18200-09.....133
15006-09.....8	15650-11.....11	17000-04.....127	18019-01.....163	18053-28.....137	18200-10.....133
15007-08.....5	15651-11.....11	17001-07.....130	18019-02.....163	18054-28.....137	18200-11.....133
15008-08.....4	15750-11.....7	17002-02.....127	18020-00.....121	18055-01.....136	18200-12.....133
15009-08.....8	15751-11.....7	17003-03.....127	18020-01.....121	18055-02.....136	18200-20.....133
15010-09.....11	16000-14.....40	17004-03.....127	18020-02.....121	18055-03.....136	18200-50.....133
15010-10.....11	16001-15.....37	17004-05.....128	18020-03.....121	18055-04.....136	18320-11.....137
15011-12.....10	16002-18.....39	17005-03.....127	18020-20.....121	18055-05.....136	18374-43.....137
15012-12.....10	16004-16.....40	17005-04.....128	18020-30.....121	18055-06.....136	18374-44.....137
15013-12.....10	16005-16.....40	17006-05.....130	18020-40.....121	18056-14.....136	18403-11.....143
15015-11.....11	16015-17.....37	17007-08.....130	18020-50.....121	18057-14.....136	18406-11.....143
15017-10.....10	16016-17.....37	17008-07.....129	18020-60.....121	18060-20.....145	18406-13.....143
15018-10.....4	16020-14.....36	17009-07.....129	18020-70.....121	18061-10.....145	18555-01.....136
15019-10.....4	16021-14.....36	17009-08.....129	18025-10.....81	18061-15.....145	18555-02.....136

18555-03 ..... 136	20840-03 ..... 158	26016-12 ..... 112	29066-02 ..... 152	91121-20 ..... 190	91400-12 ..... 180
18555-04 ..... 136	20842-03 ..... 158	26018-17 ..... 112	29066-03 ..... 152	91121-25 ..... 190	91400-14 ..... 180
18601-15 ..... 141	20850-00 ..... 159	26029-10 ..... 87	29066-04 ..... 152	91123-12 ..... 190	91401-10 ..... 180
18602-15 ..... 141	20850-10 ..... 159	26030-10 ..... 87	29071-01 ..... 151	91123-14 ..... 190	91401-12 ..... 180
18603-14 ..... 141	20850-11 ..... 159	26100-00 ..... 50, 112	29071-02 ..... 151	91123-16 ..... 190	91401-13 ..... 180
18961-15 ..... 146	20890-51 ..... 159	27000-01 ..... 171	29071-03 ..... 151	91126-15 ..... 191	91401-14 ..... 180
18961-17 ..... 146	20890-71 ..... 159	28000-07 ..... 153	29071-04 ..... 151	91127-12 ..... 189	91402-10 ..... 180
18961-18 ..... 146	20890-72 ..... 159	28000-10 ..... 153	29071-05 ..... 151	91128-15 ..... 191	91402-12 ..... 180
18961-20 ..... 146	23005-10 ..... 122	28000-12 ..... 153	29071-06 ..... 151	91138-15 ..... 191	91402-13 ..... 180
18961-75 ..... 146	24201-00 ..... 148	28001-00 ..... 155	29071-07 ..... 151	91139-09 ..... 188	91402-14 ..... 180
18961-85 ..... 146	24201-01 ..... 148	28001-02 ..... 155	29071-08 ..... 151	91139-12 ..... 188	91404-12 ..... 180
19003-00 ..... 171	24212-01 ..... 147	28015-15 ..... 155	29080-00 ..... 151	91150-20 ..... 186	91404-13 ..... 180
19003-01 ..... 171	24212-02 ..... 147	28015-25 ..... 176	30051-10 ..... 166	91156-11 ..... 188	91404-14 ..... 180
19007-05 ..... 162	24214-02 ..... 147	28020-20 ..... 155	30076-14 ..... 166	91162-12 ..... 189	91405-10 ..... 184
19007-07 ..... 162	24215-02 ..... 147	28020-28 ..... 176	30085-15 ..... 168	91194-10 ..... 196	91405-11 ..... 180
19007-09 ..... 162	24220-00 ..... 148	28030-02 ..... 172	30085-30 ..... 168	91194-13 ..... 196	91405-13 ..... 180
19007-14 ..... 162	24220-10 ..... 148	28030-03 ..... 172	30087-00 ..... 169	91195-09 ..... 196	91405-14 ..... 180
19007-21 ..... 162	24220-50 ..... 148	28030-04 ..... 172	30087-20 ..... 169	91195-11 ..... 196	91408-14 ..... 179
19007-29 ..... 162	24220-90 ..... 148	28030-10 ..... 172	37000-00 ..... 167	91195-13 ..... 196	91409-15 ..... 182
19008-07 ..... 162	26000-25 ..... 113	28030-20 ..... 175	37500-00 ..... 167	91196-13 ..... 197	91410-17 ..... 182
19008-09 ..... 162	26000-30 ..... 113	28030-25 ..... 175	37500-05 ..... 167	91197-00 ..... 186	91411-17 ..... 182
19008-14 ..... 162	26000-35 ..... 113	28040-30 ..... 174	91003-12 ..... 185	91201-13 ..... 198	91413-14 ..... 182
19009-00 ..... 50	26000-40 ..... 113	28050-30 ..... 174	91004-13 ..... 185	91204-16 ..... 198	91413-18 ..... 182
19009-05 ..... 162	26000-45 ..... 113	28050-35 ..... 174	91100-12 ..... 190	91303-10 ..... 192	91413-20 ..... 182
19009-07 ..... 162	26000-50 ..... 113	28080-10 ..... 173	91100-13 ..... 190	91304-14 ..... 193	91416-14 ..... 183
19009-09 ..... 162	26000-55 ..... 113	28080-90 ..... 174	91100-14 ..... 190	91304-16 ..... 193	91417-18 ..... 183
19010-00 ..... 50	26000-60 ..... 113	29000-00 ..... 150	91100-16 ..... 190	91305-14 ..... 193	91419-14 ..... 183
19010-01 ..... 50	26000-65 ..... 113	29000-10 ..... 150, 177	91100-17 ..... 190	91305-16 ..... 193	91427-12 ..... 189
19010-10 ..... 50	26000-70 ..... 113	29008-01 ..... 149	91102-12 ..... 190	91308-12 ..... 192	91460-11 ..... 179
19010-11 ..... 50	26001-25 ..... 113	29008-12 ..... 149	91102-13 ..... 190	91309-12 ..... 192	91460-12 ..... 179
20311-21 ..... 159	26001-30 ..... 113	29008-22 ..... 150	91102-14 ..... 190	91316-14 ..... 194	91461-11 ..... 179
20325-00 ..... 156	26001-35 ..... 113	29015-50 ..... 150, 177	91102-16 ..... 190	91316-16 ..... 194	91461-12 ..... 179
20325-10 ..... 156	26001-40 ..... 113	29025-01 ..... 170	91106-12 ..... 189	91317-14 ..... 194	91468-12 ..... 181
20350-00 ..... 156	26001-45 ..... 113	29025-02 ..... 170	91108-12 ..... 191	91317-16 ..... 194	91476-09 ..... 181
20810-01 ..... 157	26001-50 ..... 113	29026-10 ..... 170	91108-14 ..... 191	91318-14 ..... 193	91500-09 ..... 179
20810-02 ..... 157	26001-55 ..... 113	29027-00 ..... 168	91110-10 ..... 187	91319-14 ..... 193	91501-09 ..... 179
20820-00 ..... 157	26001-60 ..... 113	29051-45 ..... 149	91113-10 ..... 187	91322-14 ..... 194	91601-11 ..... 184
20830-00 ..... 160	26001-65 ..... 113	29055-00 ..... 149	91115-10 ..... 187	91323-14 ..... 194	91604-09 ..... 184
20830-01 ..... 160	26001-70 ..... 113	29060-00 ..... 152	91117-10 ..... 187	91328-14 ..... 195	91606-07 ..... 198
20830-02 ..... 160	26002-10 ..... 113	29060-01 ..... 152	91118-12 ..... 189	91328-16 ..... 195	91700-03 ..... 199
20830-03 ..... 160	26002-15 ..... 113	29060-02 ..... 152	91119-12 ..... 189	91329-14 ..... 195	91706-05 ..... 199
20830-04 ..... 160	26002-20 ..... 113	29060-03 ..... 152	91121-12 ..... 190	91329-16 ..... 195	91790-16 ..... 199
20830-05 ..... 160	26007-01 ..... 113	29060-04 ..... 152	91121-13 ..... 190	91330-14 ..... 195	91791-16 ..... 199
20830-06 ..... 160	26007-02 ..... 113	29060-05 ..... 152	91121-14 ..... 190	91331-12 ..... 192	91815-11 ..... 199
20831-10 ..... 160	26007-03 ..... 113	29060-06 ..... 152	91121-15 ..... 190	91331-14 ..... 195	91850-35 ..... 199
20840-01 ..... 158	26007-04 ..... 113	29066-00 ..... 152	91121-16 ..... 190	91393-16 ..... 197	
20840-02 ..... 158	26007-05 ..... 113	29066-01 ..... 152	91121-18 ..... 190	91400-10 ..... 180	

# Alphabetical Index

## A

Absorption Spears and Triangles .....	165
Adson forceps.....	88-89
Adson.....	88
Adson-Brown .....	89
Adson DeBakey.....	89
Adson-Graefe.....	89
Micro Adson.....	88
Micro Adson Fenestrated.....	88
Agricola retractor .....	128
Allis hemostatic forceps .....	101
Alm retractors .....	129
Applicators .....	
Micro serrefine .....	134-137
Suture clips .....	123-125
Applying forceps, clamp.....	135-136
Arc blade.....	58
Arteriotomy knives .....	52-53, 55-56
Artery scissors .....	27
Austin Chisel.....	51
AutoClip® System .....	125

## B

Baby-Beyer .....	39
Baby-Mixter hemostatic forceps.....	99
Backhaus towel forceps.....	100
Balanced Instruments .....	141
Ball Tipped .....	
Scissors.....	27
Spring Scissors .....	9
Beebee bone scissors .....	46
Beyer rongeurs .....	39
Biemer spring scissors .....	14
Bishop-Harman forceps.....	83
Bonn-Strabismus scissors.....	15
Blade .....	
Breakers.....	57
Cartridges .....	63
Holders.....	56-63
Blades.....	
Breakable.....	57
Ceramic.....	56
Scalpel.....	55-63
Blair retractor.....	126
Boehler bone cutter.....	47
Bone .....	
Cutters .....	42-49

Delicate scraper.....	51
Forceps.....	50
Nipper .....	44-45
Pliers.....	49
Rongeurs.....	36-41
Scissors.....	46
Scissors, Student.....	184
Scraper.....	51
Screw forceps.....	50
Screws, self-tapping.....	50
Shears.....	49
Wax.....	50
Bone cutters .....	
Beebee.....	46
Bone Trimmers.....	41
Boehler.....	47
Cartilage Cutter .....	41
Cleveland.....	48
Dumont carbon steel .....	42
Dumont epoxy coated.....	42
Liston .....	48
Littauer.....	46
Malleus Nipper.....	45
Micro.....	43
Offset Bone Nipper.....	44
Skull Flap .....	47
Spring Scissors.....	45
Tungsten Carbide.....	43, 46
Bone Nipper .....	44
Bonn .....	
Artery.....	27
Forceps.....	80
Micro probes.....	104
Scissors.....	15, 27
Strabismus.....	15
Book and DVD-Suturing Principles.....	122
Bowman retractor .....	130
Brush .....	165
Bulldog clamps.....	137
Burrs.....	162
<b>C</b>	
Calipers .....	
Castroviejo .....	169
Digital electronic.....	169
Cane blade Plastic Vernier .....	169
Cannulation aids.....	58
Cartilage Cutter.....	139-143
Cases, instrument .....	41
Castroviejo.....	157-160

Caliper .....	169
Needle holders.....	114-115
Spring scissors.....	8-11
Cauterizers, vessel .....	163-164
Ceramic .....	
About.....	203
Blades.....	56
Cutter.....	166
Dumont forceps.....	65, 71
Scissors .....	21
Spring scissors.....	7, 11
Titanium .....	11
Chisels.....	
Austin .....	51
Dissecting.....	51
Circle forceps.....	87
Circle knife.....	53
Clamps .....	
Applying forceps.....	135-136
Bulldog Artery Spring Clamps.....	137
Bulldog Type Serrefines.....	137
Dietrich Bulldog Clamps .....	137
Double Micro Clamps.....	134
Mini Serrefines .....	137
Moria .....	137
S&T .....	134
Schwartz Micro Serrefines .....	137
Silver Neuro Clips .....	138
Titanium .....	136, 137
Towel .....	100-101
Vascular.....	134, 136-137
Vascular Occluders .....	138
Cleveland bone cutters .....	48
Clip-On LED Light.....	175
Clipper style scissors .....	14
Cohan-Vannas spring scissors .....	6
Colibri retractor .....	127
Colibri retractor (mini) .....	127
Combination Probe and Spatula .....	107
Combination Spoon and Spatula .....	107
Contacts, Gold wire.....	171
Corers, sample.....	165
Cover glass forceps.....	86
Cover slip forceps.....	69
Crile hemostatic forceps .....	98
Crile-Wood needle holders .....	118
Curettes, micro .....	51
<b>D</b>	
DeBakey forceps .....	89

Decapitation scissors.....	35	Fine .....		Repair kit .....	150
Demagnetizer.....	149	Bonn.....	15	Replaceable tip .....	76
Diamond coated forceps .....	75	Forceps .....	77-84	Ring.....	87
Diamond knives.....	56	Iris Scissors .....	16-18	Russian .....	93
Dietrich bulldog clamps .....	137	Scissors .....	15-35	S&T.....	79, 81, 135, 143
Digital Electronic Caliper .....	169	Spring scissors.....	3-14	Self-Closing.....	77
Dilator, vessel .....	140-141	Fine Hemostat .....	96	Semken.....	91
Disposable safety scalpels .....	62-63	Fixation forceps, Pierse.....	85	Standard Forceps.....	85-95
Disposable scalpel box .....	61	Fomon retractor.....	126	Standard Pattern.....	90
Dissecting Chisel.....	51	Forceps.....		Student.....	186-191
Dissecting knives .....	52-53	Adson.....	88-89	SuperGrip .....	79
Double-Ended Micro Spatula.....	108	Adson-Brown .....	89	Suture tying.....	80-82
Double Micro Clamps.....	134	Adson DeBaKey.....	89	Taylor.....	95
Double pronged tissue pick.....	103	Adson-Graefe.....	89	Titanium .....	67, 71, 84, 90, 94
Double tip protectors .....	152	Applying and removing.....	123	Tungsten carbide.....	88
Dowell spring scissors .....	9	Bishop-Harman .....	83	Vitro Grasping .....	82
Dressing forceps .....	84, 90-91	Bone.....	50	Vial.....	82
Dumont.....		Bonn.....	80	Friedman rongeur .....	40
Bone Cutter.....	42	Cannulation .....	143	Friedman-Pearson rongeur.....	36
Ceramic.....	65, 71	Ceramic .....	65, 71		
Coverslip.....	69	Circle.....	87	<b>G</b>	
Epoxy.....	42, 72-73	Cover glass .....	86	Galilean Loupes .....	174
Forceps.....	65-74, 143	Cover slip.....	69	Gavage feeding needles.....	145
Forceps repair kit .....	150	Cross action .....	86	Gelpi retractor .....	130
Forceps sharpening stones.....	150	Diamond coated.....	75	GenoPunch.....	147
Laminectomy.....	72	Dressing .....	84, 90-91	Gerald forceps .....	94
Mini Forceps .....	74	Dumont .....	65-74, 143	Gillies forceps .....	93
Slide Lock.....	69	Epoxy coated.....	72-73	Gold plated forceps .....	75
Super Fine Tip.....	65	Fine .....	77-84	Gold wire contacts .....	171
Teflon.....	69	Fixation.....	85	Goldstein retractor .....	127
Titanium.....	67, 71	Gerald.....	94	Graefe forceps.....	83
Tweezers.....	65-74, 143	Gillies.....	93	Graefe knife .....	52
Dura cutting knife.....	52	Gold plated .....	75	Grasping forceps .....	82
Dura hook.....	103	Graefe.....	83	Grease, silicone .....	149
		Grasping .....	82	Gross anatomy.....	
<b>E</b>		Hemostatic.....	96-101	Knives.....	54
Ear .....		Insect handling.....	87	Probe .....	107
Punches .....	147	Laminectomy.....	72	Scalpel.....	62
Tags .....	148	London .....	94	Scissors .....	29-35
Tattoo system .....	148	Micro .....	65-79	Guthrie retractor.....	126
Electronic timers.....	171	Mirror Finish.....	67, 76-77, 80-81		
Etched micro needles .....	113	Moria .....	78	<b>H</b>	
Eschenbach magnifiers .....	174-176	Mouse laminectomy .....	72	Halsey needle holders.....	
Extra Fine Bonn .....	15	Mouse handling .....	91	Halsted-Mosquito hemostatic forceps .....	97
Explorers.....	105	Narrow Pattern .....	90	Handles, scalpel.....	58-63
		Octagon .....	83	Hardened Fine Iris Scissors.....	16
<b>F</b>		Organ holding.....	93	Hartman hemostatic forceps.....	100
Feeding needles .....	145-146	Pierse fixation .....	85	Headband magnifier.....	172
File set.....	166	Pin & bone screw holding.....	50, 112	Headband, spectacles.....	174
Filters, sterilization.....	159	Plastic.....	76, 86		
		Potts-Smith .....	95		



Heiss retractor.....	131
Hemostatic forceps.....	
Allis Clamp.....	101
Baby-Mixer.....	99
Backhaus Towel Clamp.....	100
Crile.....	98
Fine.....	96
Halsted-Mosquito.....	97
Hartman.....	100
Kelly.....	98
Left-handed.....	97
Lorna Clamp.....	101
Micro-Mosquito.....	97
Providence-Hospital.....	99
Smooth.....	96
Student.....	192-197
Ultra Fine.....	96
High-temp cauterizer.....	163-164
Hippocampal dissecting tools.....	110
Holders.....	
Blade.....	54-63
Ceramic blade.....	56
Micro needle.....	114
Needle.....	114-119
Pin.....	112
Scalpel blade.....	54-63
Student.....	198
Hooks.....	
Micro.....	105-16
Spinal cord.....	103
Y-Hook.....	106
V-Hook.....	139
Hot bead sterilizers.....	154

<b>I</b>	
Identification, animal.....	
Tattoo system.....	148
Ear punches.....	147
Ear tags.....	148
Insect.....	
Handling forceps.....	87
Pins.....	113
Insert.....	
Pin holders.....	112, 198
Pins.....	113
Instrument.....	
Beaker.....	161
Cases.....	157-160
Holding spring.....	161
Oil and Oil Pen.....	149

Sharpening Stones.....	149-150
Tape, identification.....	151
Tip protectors.....	152
Iridectomy scissors.....	3-14
Iris Spatulae.....	108

## K

Kaye scissors.....	28
Kelly hemostatic forceps.....	98
Knives.....	
Circle.....	53
Diamond.....	56
Dura cutting.....	52
Gross anatomy (blade).....	54
Micro.....	52-53
Sichel.....	52
Stone age.....	55
Von Graefe.....	52

## L

LaGrange scissors.....	25
Laminectomy forceps, mouse.....	72
Large Loops.....	19, 28, 31
Left-handed.....	
Fine scissors.....	17
Hemostatic forceps.....	97
Ligation aid.....	139
Needle holders.....	117-118
Surgical scissors.....	29
Universal scissors.....	167
Lempert rongeur.....	40
Lens paper.....	150, 177
Lexer-Baby scissors.....	22
Ligation aid.....	139
Ligature scissors.....	26
Lister scissors.....	31
Liston gross anatomy cutter.....	48
Littauer bone cutter.....	46
Live Insect Handling Forceps.....	87
Low-temp cauterizer.....	163
Lorna Clamp.....	101
Lubricant, silicone.....	149
Luer rongeur.....	37

## M

Magnetic sterilization mat.....	156
Magnifiers.....	
Eschenbach Clip-On LED Light.....	175
Galilean Loupes.....	174

Headband.....	174
Interchangeable Headset with LED.....	173
Magnifying Loupe with Micrometer.....	
and LED.....	170
Spectacles.....	172-175
Stands.....	176
Scribolux.....	176
Vario Flex.....	176
Malleus Nipper.....	45
Mandrel.....	162
Maniplier®, skin stapler.....	124
Manual and DVD, Suturing Principles and Techniques in Laboratory Animals.....	122
Marker, skin.....	147
Mat, silicone.....	156
Mathieu needle holder.....	115
Max Detail spectacles.....	175
Mayo scissors.....	34
Mayo-Hegar needle holder.....	118
Mayo-Noble scissors.....	35
Mayo-Stillie scissors.....	35
Metzenbaum scissors.....	
Baby scissors.....	32
Scissors.....	33
ToughCut Metzenbaum.....	33
Tungsten Carbide Metzenbaum Fino.....	32
Michel suture clips.....	123
Micro.....	
Bone cutter.....	43
Brush.....	165
Cannulation System.....	142
Curettes.....	51
Dissecting knives.....	52-53
Dissection scissors.....	3-14
Forceps.....	65-79
Hooks.....	105-106
Needles, etched.....	113
Needle holders.....	114
Needles and sutures.....	120-121
Points.....	104, 106
Probes.....	104, 106
Rongeurs.....	36-37
Serrefine applicators.....	135-136
Serrefines.....	134, 136
Spatulae.....	106-109
Micrometers.....	170
Micro-Mosquito Hemostat.....	97
Mini-Bierner spring scissors.....	14
Mini-Colibri retractor.....	127
Mini-Lister.....	31

Mini-Vannas spring scissors .....	5	Occluders, vascular .....	138	Blade .....	127-130
Minutien pins .....	113	Octagon Forceps .....	83	Blair .....	126
Mirror finish .....		Offset Bone Nipper .....	44	Bowman .....	130
Cutting spoon .....	111	Oil, instrument .....	149	Colibri .....	127
Forceps .....	67, 77	O-rings for forceps .....	74	Fine Adjustable Wire Retractor .....	128
Micro spatula .....	108	Olsen-Hegar needle holders .....	117	Fomon .....	126
Suture tying forceps .....	80-81	Optical cleaning kit .....	150, 177	Heiss .....	131
Moria .....		Organ holding forceps .....	87	Gelpi .....	131
Forceps .....	78			Goldstein .....	127
Instrument case .....	159	<b>P</b>		Guthrie .....	126
Pin holders .....	112	Pascheff-Wolff spring scissors .....	12	Large .....	128-132
Retractors .....	128	Pearson rongeur .....	36	Mini-Goldstein .....	127
Scissors .....	18	Pen, skin marker .....	147	Mini-Colibri .....	127
Spoons .....	111	Perforated Spoons .....	111	Moria .....	128
Spring scissors .....	5, 8, 12	Pick .....		Slide .....	127
Vascular clamps .....	137	Double Pronged Pick .....	103	Small .....	127
Mosquito hemostatic forceps .....	97	Pierse fixation forceps .....	85	Speculum .....	128
Mouse .....		Pin holders .....	112	Spring-Loaded .....	130
Feeding needles .....	145-146	Pins .....		Student .....	199
Laminectomy forceps .....	72	Etched Tungsten Micro Needles .....	113	Systems .....	133
Handling forceps .....	91	Insect .....	113	Weitlaner-Locktite .....	132
		Insert .....	113	Wire .....	128
		Minutien .....	113	Wullstein .....	132
<b>N</b>		Plastic cases .....	157-158, 160	Ring forceps .....	87
Narrow Pattern Forceps .....	90-91	Plastic forceps .....	86	Roll up travel case .....	160
Needle Holders .....		Plastic sterilization container .....	157-158	Rongeurs .....	
Castroviejo .....	114	Plastic Vernier Caliper .....	169	Baby-Beyer .....	39
Castroviejo with		Potts-Smith forceps .....	95	Beyer .....	39
Tungsten Carbide Jaws .....	115	Pouches, sterilization .....	153	Bone .....	36-40
Crile-Wood .....	118	Probes .....		Friedman .....	40
Halsey .....	116	Bonn Micro Probes .....	104	Friedman-Pearson .....	36
Halsey with Tungsten Carbide Jaws .....	116	Combination Probe and Spatula .....	107	Lempert .....	40
Mathieu .....	115	Gross Anatomy Probe .....	107	Luer .....	37
Mayo-Hegar .....	118	Micro Hooks .....	105-106	Micro .....	36
Needle Holder with Suture Cutter .....	114	Micro Points .....	104, 106	Pearson .....	36
Olsen-Hegar with Suture Cutter .....	117	Probes and Explorers .....	105	Round Handled .....	
Round Handled .....	114	Vessel Dilating Probe .....	107	Needle holder .....	114
Ryder Mini-Select Needle Holder .....	119	Providence-Hospital hemostatic forceps .....	99	Spring scissors .....	7
Slim Elongated Needle Holder .....	119	PTFE feeding needles .....	146	Suture tying forceps .....	82
Needles .....		Punches .....		Rulers .....	
Etched, micro .....	113	Ear .....	147	Label Tape .....	168
Feeding .....	145-146	Neuro .....	165	Steel .....	168
Micro needles and sutures .....	120-121			Russian forceps .....	93
Neuro punches .....	165	<b>R</b>			
Neuro clips, silver .....	138	Repair kit, forceps .....	150	<b>S</b>	
Noyes spring scissors .....	10	Replaceable tips/tip forceps .....	76	S&T .....	
Nylon suture thread .....	121	Retractors .....		Cannulation forceps .....	143
<b>O</b>		Agricola .....	128	Forceps .....	79, 81, 135, 140, 143
Obsidian scalpels .....	55	Alm Retractors .....	129	Instrument beaker .....	161
				Micro needles and suture .....	120

SuperGrip forceps.....	79	Student Lister.....	182	Angled.....	3-4, 6, 8-13
Suture tying forceps.....	81	Surgical.....	29-35	Ball Tipped.....	9
Vascular clamps.....	134	Titanium.....	6	Biemer.....	14
Vessel dilator.....	140	ToughCut.....	6, 15, 20, 30, 33-34	Bone Cutter.....	45
Safety scalpel.....		ToughCut with tungsten carbide.....	21	Castroviejo.....	8-11
Blade cartridges.....	63	Tungsten carbide...10, 20-21, 23, 30-32, 34		Ceramic coated.....	7, 11
Disposable.....	62	Universal.....	167	Clipper Scissors II.....	14
Handle.....	63	Utility.....	167	Cohan-Vannas.....	6
Sample corers.....	165	Vitrectomy.....	13	Dowell.....	9
Saw, Circular.....	162	Walton.....	24	Extra fine.....	3-5, 12-13
Scalpel.....		Screwdrivers.....	166	Iridectomy.....	3-14
Blade handles.....	56-63	Screws, self-tapping.....	50	Mini-Vannas.....	3-5
Blade removers.....	61	Secure scalpel handle.....	60	Moria.....	5, 8, 12
Blades.....	56-60	Self closing forceps.....	77	Noyes.....	10
Ceramic blades.....	56	Self Holding Pin and Bone Screw Forceps.....	50	Pascheff-Wolff.....	12
Disposal Box.....	61	Self-Sealing Sterilization Pouches.....	153	Round Handled.....	7
Disposal Safety.....	62	Semken forceps.....	91	Serrated.....	5
Gross anatomy.....	62	Serrefines.....	136-137	Student Vannas.....	179
Safety Scalpels.....	62-63	Sharpening stones.....	148-149	Titanium Vannas.....	6
Stone age.....	55	Shea scissors.....	25	ToughCut.....	6
Schwartz micro serrefine.....	137	Shears, bone.....	49	Trident II.....	12
Scissors.....		Sichel knife.....	52	Vannas.....	3-8, 179
Bone.....	46	Silicone lubricant.....	149	Vannas-Miniature.....	6
Bonn.....	15, 27	Silicone mats.....	156	Vannas-Tubingen.....	4
CeramCut.....	21	Silicone tips, forceps.....	91	Vannas-Wolff.....	8
Clipper.....	14	Silk sutures.....	121	Vessels.....	14
Decapitation.....	35	Skin marker.....	147	Vitrectomy.....	13
Dissector.....	26	Skin staplers.....	124-125	Wescott.....	11
Dowell.....	9	Skull flap cutter.....	47	Spring, instrument holding.....	161
Fine.....	15-28	Slide retractors.....	127	Stage micrometers.....	170
Kaye.....	28	Spatulae.....		Standard Pattern Forceps.....	90
LaGrange.....	25	Combination Spoon and Spatula.....	107	Standard Pattern Scissors.....	
Large loops.....	19, 28, 31	Combination Probe and Spatula.....	107	Large Loops.....	31
Left-handed.....	17, 29, 167	Double-Ended Micro Spatula.....	108	Scissors.....	29-31
Lexer-Baby.....	22	Hippocampal Dissecting Tool.....	110	Serrations.....	30
Ligature.....	26	Iris Spatulae.....	108	ToughCut.....	30
Lister.....	31	Micro Spatula.....	106, 108	Tungsten Carbide.....	30
Mayo.....	34	Micro Spatula Kit.....	109	Staplers, skin.....	124-125
Mayo-Noble.....	35	Mini Hippocampal Dissecting Tool.....	110	Sterilizers, hot bead.....	154
Mayo-Stille.....	35	Mirror Finish Micro Spatula.....	108	Sterilizing containers.....	157-159
Metzenbaum.....	32-33	Spears, absorption.....	165	Sterilizing mats.....	156
Mini-Lister.....	31	Spectacles Headband.....	174	Sterilizing pouches.....	153
Moria.....	5, 7, 12, 18	Spectacles, magnifier.....	172-175	Sterilizing wraps.....	155
Shea.....	25	Spencer Ligature.....	26	Stevens tenotomy scissors.....	24
Spencer Ligature.....	26	Spinal Cord Hook.....	103	Stone Age Scalpels.....	55
Spring.....	3-14	Spoons.....		Strabismus.....	23
Standard Pattern.....	29	Mini Perforated Spoon.....	111	Student.....	
Stevens Tenotomy.....	24	Mirror Finish Cutting Spoon.....	111	Adson, micro, -Brown forceps.....	189
Strabismus.....	23	Moria Spoon.....	111	Babcock clamp.....	197
Student.....	179-184	Perforated Spoon.....	111	Backhaus towel clamp.....	196
		Spring scissors.....		Barraquer retractor.....	199

Bone Scissors.....	184	Laboratory Animals, Manual and DVD .	122	Forceps.....	88
Bone Cutter.....	184	Thread.....	120-121	Mayo.....	34
Clamps.....	199	Tying forceps.....	80-82	Metzenbaum Fino.....	32
Crile hemostat.....	193	With needle and thread.....	120	Needle holders.....	115-119
Dieffenbach clamp.....	199	Swabs.....		Noyes.....	10
Dumont forceps.....	186	Fiber Optic.....	165	Scissors.....	10, 20-21, 23, 30-32, 34, 46
Feilchenfeld forceps.....	188	<b>T</b>		Scissors with ToughCut.....	21
Forceps.....	186-191	Tags, Ear.....	148	Standard Pattern.....	30
Gillies forceps.....	191	Tape.....		Strabismus.....	23
Halsey needle holder.....	198	Dispenser.....	155	Tweezers, Dumont.....	65-74, 143
Halsted-Mosquito hemostat.....	192	Identification.....	151	<b>U</b>	
Hartmann hemostat.....	192	Sterilization.....	155	Ultra Fine Clipper Scissors II.....	14
Hemostatic forceps.....	192-197	Ruler Label.....	168	Ultra Fine Hemostat.....	96
Instruments, About.....	203	Tattoo system.....	148	Utility scissors.....	167
Kelly hemostat.....	193	Taylor forceps.....	95	<b>V</b>	
Kocher hemostat.....	195	Timers.....	171	Vannas spring scissors.....	3-8, 179
Lister scissors.....	182	Tip protectors.....	152	Vannas-Miniature spring scissors.....	5
Lorna towel clamp.....	197	Tip Replacement.....	91	Vannas-Tubingen spring scissors.....	4
Mayo scissors.....	182	Tissue.....		Vannas-Wolff spring scissors.....	8
Mayo-Hegar needle holder.....	198	Pick.....	103	Vascular clamps.....	134, 136-137
McIndoe forceps.....	191	Scissors.....	27	Vascular occluders.....	138
Metzenbaum, baby scissors.....	183	Titanium.....		Vernier caliper.....	169
Needle holder.....	198	About.....	203	Vessel cannulation aids.....	140-143
Ochsner-Kocher hemostat.....	195	Artery clamp.....	137	Vessel cauterizer.....	163-164
Pean hemostat.....	194	Ceramic.....	11	Vessel dilating probe.....	107
Pin holder.....	198	Forceps.....	67, 71, 84, 91, 94	Vessel dilators.....	107, 140-141
Retractor.....	199	Micro Point.....	106	Vessel spring scissors.....	14
Rochester-Pean hemostat.....	194	Micro Spatula.....	106	Vetro grasping forceps.....	82
Russian forceps.....	191	Scissors.....	6, 11	Vial forceps.....	82
Sanvenero scissors.....	179	Serrefines.....	136	VisorLight.....	172
Scalpel handle.....	185	Vascular Clamps.....	136-137	Vitreotomy scissors.....	13
Scissors.....	179-184	Y-Hook.....	106	V-Hook.....	139
Semken forceps.....	191	Tools.....	166-167	Von Graefe knife.....	52
Senn-Miller retractor.....	199	ToughCut.....		<b>W</b>	
Spencer ligature scissors.....	181	About.....	203	Wagner.....	19
Splinter forceps.....	188	Bonn-Strabismus.....	15	Walton.....	24
Spring scissors, Vannas.....	179	Mayo.....	34	Wax.....	50
Tohoku towel clamp.....	196	Metzenbaum.....	33	Weitlaner-Locktite retractor.....	132
Vessel dilator.....	199	Scissors.....	6, 15, 20, 30, 33-34	Westcott spring scissors.....	11
Wagner scissors.....	181	Spring scissors.....	6	Wire contacts, gold.....	171
SuperGrip forceps.....	79	Scissors with tungsten carbide.....	21	Wire teeth retractor.....	129
Surgical scissors.....	29-35	Standard Pattern.....	30	Wound Closure.....	114-125
Left-handed.....	29	Travel case.....	160	Wraps, sterilization.....	155
Surgery plate.....	133	Trephines.....	162	Wullstein retractor.....	132
Suture.....		Trident II spring scissors.....	12		
Clips, AutoClip.....	125	Tungsten needles, etched.....	113		
Clips, Michel.....	123	Tungsten carbide.....			
Needles.....	120-121	About.....	203		
Nylon.....	121	Burrs.....	162		
S&T micro needles and suture.....	120	Cutter.....	43		
Suturing Principles and Techniques in.....					

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Scissors, Bone Instruments,  
Knives & Scalpels  
pages 3 – 63



Forceps & Hemostats  
pages 65 – 101



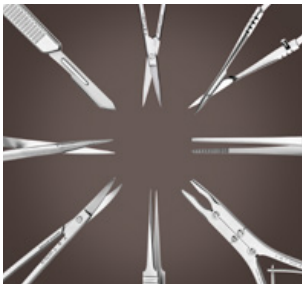
Probes, Needle Holders, Thread,  
Retractors & Clamps  
pages 103 – 143



Surgical & Laboratory  
Accessories  
pages 145 – 177



Student Quality Instruments  
pages 179 – 199



Reference Pages  
pages 201 – 220



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