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Roboz Surgical Instrument Company, Inc.  
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# Tweezers and Forceps



# Tweezers Reference Page

## Material

The high quality microdissecting tweezers on the following pages are available in a number of different steel alloys. Which alloy to choose is very important and depends on how you intend to use the tweezers. The information below is provided to help compare the various alloys and their respective properties. Please note that not all tweezers patterns are available in all alloys.

- CARBON STEEL:** At Rockwell 60, carbon steel is one of the hardest tweezers steels. Carbon steel tips are very durable but because of this hardness, carbon steel tips are more brittle than some of the other steels. Carbon steel is also highly magnetic and stains easily.
- TITANIUM:** While not as hard as some of the other alloys (Rockwell 37 at tips), titanium tips are very flexible. Another unique property of titanium is that it is 33% lighter than other stainless alloys. Titanium is extremely corrosion and stain resistant, making it the preferred choice for salt water uses. Titanium also has a high heat resistance in excess of 400°C and is completely non-magnetic.
- INOX:** Inox is a specific stainless alloy composed of carbon steel and chromium. Inox tips are more flexible than pure carbon steel but not as hard (Rockwell 55). Inox has good stain resistance and is magnetic.
- DUMOXEL:** One of the most popular tweezers alloys, Dumoxel is even more stain resistant than Inox and is highly corrosion resistant. With a Rockwell 36 at the tips, tweezers made from this alloy have very soft, flexible tips. Dumoxel is non-magnetic and exhibits high temperature resistance.
- DUMOSTAR:** This new alloy is a blend of steel, chromium, nickel, cobalt and has many of the best features of the other alloys. Dumostar is heat resistant to over 500°C and is completely non-magnetic. Dumostar is extremely corrosion resistant and is one of the harder alloys at Rockwell 62. However, because of its unique composition, Dumostar tips are very flexible, are resistant to fatigue, and are capable of flexing far beyond other alloys without permanently deforming. This alloy is far superior in overall performance than any other material available today!

## Tip Dimensions

Most tweezers patterns are available in two tip styles, namely "standard" and "biologie". The dimensions of each vary by pattern. In general, the "biologie" tips are about twice as fine as the "standard" tips. Below is a chart showing the tip dimensions of both standard and biologie tips by pattern of some of the more popular patterns:

	Tip Dimensions (mm)			
	Standard		Biologie	
	Width	Thickness	Width	Thickness
Pattern 1	0.20	x 0.12	0.10	x 0.06
Pattern 2	0.34	x 0.14	0.17	x 0.07
Pattern 3	0.17	x 0.10	0.08	x 0.04
Pattern 4	0.13	x 0.08	0.06	x 0.02
Pattern 5	0.10	x 0.06	0.05	x 0.01
Pattern 7	0.17	x 0.10	0.07	x 0.03

Please consult the following pages for dimensions of patterns not listed above.

**Pattern #1**  
length 120mm  
Tip Profile

**RS-5040** tip .20 x .12mm  
Material: INOX



**RS-4900** tip .10 x .06mm  
Material: INOX  
Biologie Tips

RS-4900 Shown

**RS-4960** tip .20 x .12mm  
Material: Dumostar



RS-4960 Shown

**Pattern #2**  
length 120mm  
Tip Profile

**RS-4902** tip .17 x .07mm  
Material: INOX  
Biologie Tips



RS-4902 Shown

**RS-4962** tip .34 x .14mm  
Material: Dumostar

**RS-5041** tip .34 x .14mm  
Material: INOX



RS-4962 Shown

**Pattern #3**  
length 120mm  
Tip Profile

**RS-5042** tip .17 x .10mm  
Material: INOX



**RS-4903** tip .08 x .04mm  
Material: INOX  
Biologie Tips

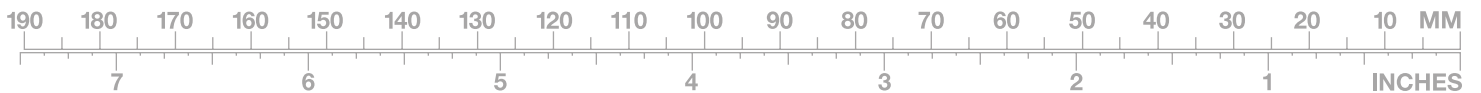
RS-4903 Shown

**RS-4964** tip .17 x .10mm  
Material: Dumostar

**RS-4966** tip .08 x .04mm  
Material: Dumostar  
Biologie Tips



RS-4966 Shown





RS-4970 Shown

**Pattern #3C**  
length 110mm  
Tip Profile

- RS-4968** tip .17 x .10mm  
Material: Dumostar
- RS-4970** tip .08 x .04mm  
Material: Dumostar  
Biologie Tips
- RS-5043** tip .17 x .10mm  
Material: INOX



RS-4913

**Pattern #Mini 3**  
length 70mm  
Tip Profile

tip .08 x .04mm  
Material: INOX  
Biologie Tips



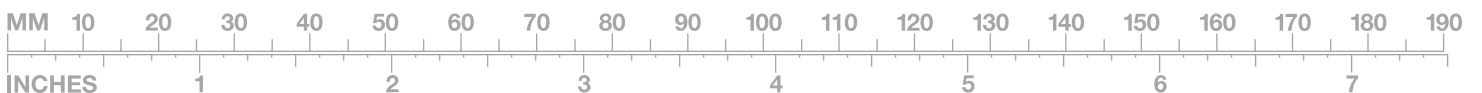
RS-4904 Shown

**Pattern #4**  
length 110mm  
Tip Profile

- RS-5044** tip .13 x .08mm  
Material: INOX
- RS-4904** tip .06 x .02mm  
Material: INOX  
Biologie Tips
- RS-4972** tip .13 x .08mm  
Material: Dumostar
- RS-4974** tip .06 x .02mm  
Material: Dumostar  
Biologie Tips



RS-4972 Shown





**Pattern #5 modified**  
tips closing flat on 4mm  
length 110mm

**RS-5001** tip .06 x .02mm  
half curve  
Material: INOX  
Biologie Tips



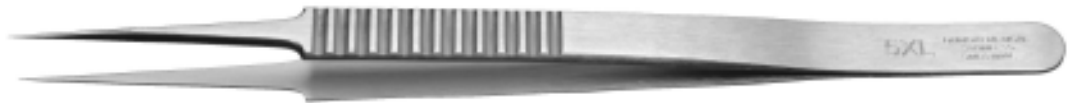
**Pattern #5 SF**  
length 110mm  
Tip Profile

**RS-4955** tip .025 x .005mm  
Material: INOX  
Superfine Tips



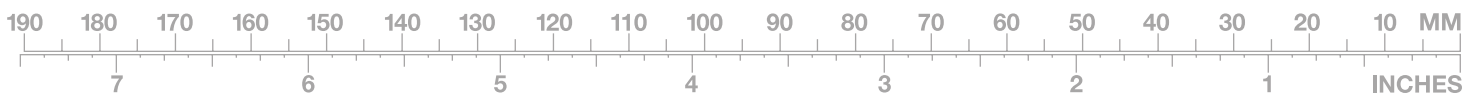
**Pattern #5 XL**  
length 150mm  
Tip Profile

**RS-4915** tip .06 x .0024mm  
Material: INOX



**Pattern #5 Ceramic**  
length 110mm  
Tip Profile

**RS-4925** tip 0.05 x 0.01mm  
Material: Black Ce-  
ramic Coated INOX  
Biologie Tips





RS-4905 Shown



RS-4976 Shown

**Pattern #5**

length 110mm

Tip Profile **RS-5045**

tip .10 x .06mm

Material: INOX

**RS-5015**

tip .05 x .01mm

Material: INOX

Biologie Tips

**RS-4905**

tip .05 x .01mm

Material: INOX

Biologie Tips

Serrated Grip

**RS-5035**

tip .08 x .04mm

Material: Carbon Steel

**RS-5065**

tip .10 x .06mm

Material: Dumoxel

**RS-5060**

tip .05 x .01mm

Material: Dumoxel

Biologie Tips

**RS-4976**

tip .10 x .06mm

Material: Dumostar

**RS-4978**

tip .05 x .01mm

Material: Dumostar

Biologie Tips

**RS-5055**

tip .10 x .06mm

Material: Titanium

**RS-5050**

tip .05 x .01mm

Material: Titanium

Biologie Tips



RS-5005 Shown

**Pattern #5**

45° angle

length 109mm

Tip Profile **RS-5005**

tip .05 x .01mm

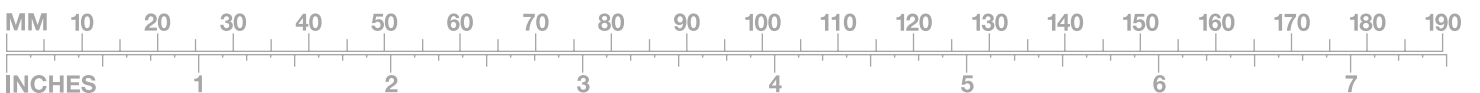
Material: INOX

Biologie Tips

**RS-5058**

tip .10 x .06mm

Material: Dumoxel



**Pattern #5**  
 90° angle  
 length 106mm  
 Tip Profile

**RS-4919** tip .05 x .01mm  
 Material: INOX  
 Biologie Tips



**Pattern #5**  
 15° up  
 length 105mm  
 Tip Profile

**RS-5045A** tip .10 x .06mm  
 Material: INOX



**Pattern #55**  
 length 110mm  
 light shanks,  
 superfine points  
 Tip Profile

**RS-5010** tip .05 x .01mm  
 Material: INOX  
 Biologie Tips



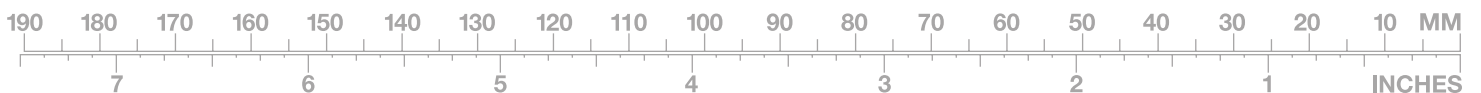
**RS-5063** tip .05 x .01mm  
 Material: Dumoxel  
 Biologie Tips

RS-5010 Shown

**RS-4984** tip .05 x .01mm  
 Material: Dumostar  
 Biologie Tips

**Pattern #5A**  
 oblique points  
 length 115mm  
 Tip Profile

**RS-4928** tip .06 x .02mm  
 Material: INOX  
 Biologie Tips





RS-5020

**Pattern #N5**  
cross action  
superfine points  
length 108mm  
Tip Profile

tip .05 x .01mm  
Material: INOX  
Biologie Tips



RS-5046

**Pattern #6**  
length 115mm  
Tip Profile

tip .17 x .10mm  
Material: INOX



RS-4907 Shown

RS-5047

**Pattern #7**  
length 115mm  
Tip Profile

tip .17 x .10mm  
Material: INOX

RS-4907

tip .07 x .03mm  
Material: INOX  
Biologie Tips



RS-5047 Shown

RS-5064

tip .17 x .10mm  
Material: Dumoxel

RS-5037

tip .07 x .03mm  
Material: Dumoxel  
Biologie Tips

RS-4980

tip .17 x .10mm  
Material: Dumostar

RS-4982

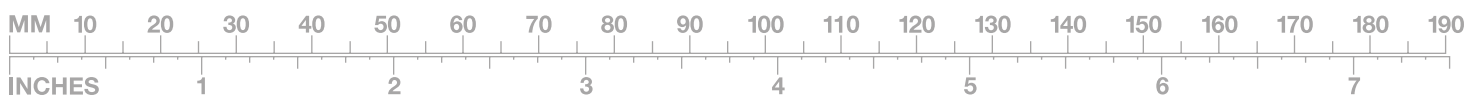
tip .07 x .03mm  
Material: Dumostar  
Biologie Tips

RS-5057

tip .17 x .10mm  
Material: Titanium

RS-5039

tip .07 x .03mm  
Material: Titanium  
Biologie Tips



**Pattern #7S**  
 short curve  
 length 117mm  
 Tip Profile

**RS-4935** tip .07 x .03mm  
 Material: INOX  
 Biologie Tips



**Pattern #N7**  
 cross action  
 length 115mm  
 Tip Profile

**RS-5027** tip .07 x .03mm  
 Material: INOX  
 Biologie Tips



**Pattern #SS**  
 long narrow, delicate  
 length 135mm  
 Tip Profile

**RS-4940** tip .10 x .06mm  
 Material: INOX  
 Biologie Tips



**RS-4941** tip .10 x .06mm  
 45° angle  
 Material: INOX  
 Biologie Tips

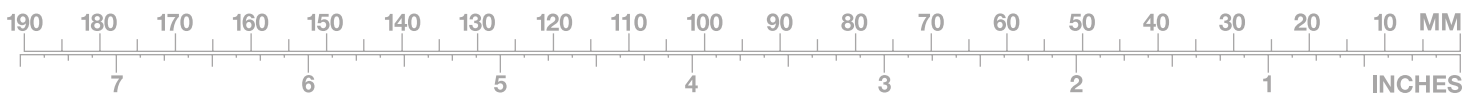


**Pattern #PP**  
 heavy duty  
 length 135mm  
 Tip Profile

**RS-4950** tip .10 x .06mm  
 Material: INOX  
 Biologie Tips



**RS-4951** tip .10 x .06mm  
 45° Angle  
 Material: INOX  
 Biologie Tips



RS-4990

**Vessel Cannulation Forceps**

for tubing of  
 .35mm OD  
 length 131mm  
 tip width .75mm  
 tip diameter .35mm  
 Material: INOX



RS-4991

**Vessel Cannulation Forceps**

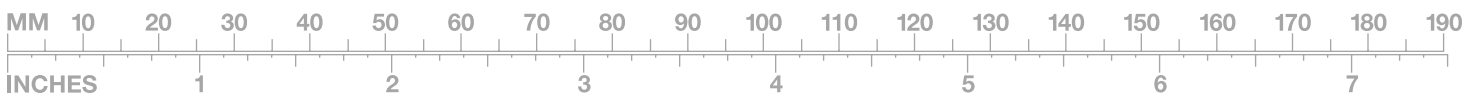
for tubing of .5mm OD  
 length 130mm  
 tip width .9mm  
 tip diameter .5mm  
 Material: INOX



RS-4992

**Vessel Cannulation Forceps**

for tubing of  
 1.0mm OD  
 length 128mm  
 tip width 1.4mm  
 tip diameter 1.0mm  
 Material: INOX



**RS-4927**      **Vessel Dilation Forceps**  
 length 120mm  
 tip .20 x .16mm



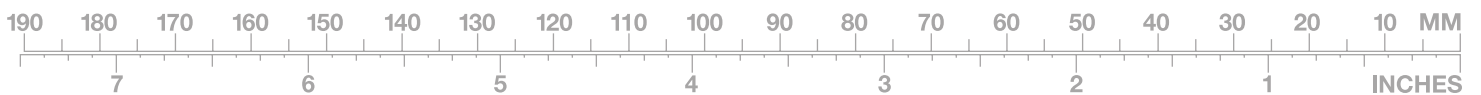
**RS-4929**      **Vessel Dilation Forceps**  
 length 115mm  
 tip .20 x .16mm



**RS-4942**      **Vessel Dilation Forceps**  
 length 135mm  
 tip .20 x .16mm



**RS-4952**      **Corneal Forceps**  
 length 135mm  
 tip .30 x .30mm  
 retention hole diameter .35mm





RS-5169

**BONN**  
 tying platform  
 0.3mm tip width  
 length 2<sup>3</sup>/<sub>4</sub>"



RS-5170

**BONN**  
 tying platform  
 1x2 teeth  
 0.12mm teeth  
 0.3mm tip width  
 length 2<sup>3</sup>/<sub>4</sub>"



RS-5180

**BISHOP-HARMON**  
 cross serrated  
 0.5mm tip width  
 length 3<sup>1</sup>/<sub>4</sub>"



RS-5182

**BISHOP-HARMON**  
 1x2 teeth  
 0.3mm teeth  
 0.5mm tip width  
 length 3<sup>1</sup>/<sub>4</sub>"



RS-5110

**GRAEFE**  
 serrated, straight  
 tip width 0.6mm  
 length 2<sup>3</sup>/<sub>4</sub>"



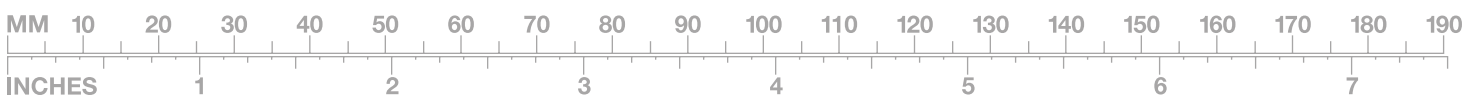
RS-5111

**GRAEFE**  
 serrated, curved  
 tip width 0.6mm  
 length 2<sup>3</sup>/<sub>4</sub>"



RS-5112

**GRAEFE**  
 1x2 teeth, straight  
 tip width 0.6mm  
 length 2<sup>3</sup>/<sub>4</sub>"





**RS-5113**      **GRAEFE**  
 1x2 teeth, curved  
 tip width 0.6mm  
 length 2<sup>3</sup>/<sub>4</sub>"



**RS-5070**      **Micro Dissecting**  
 straight  
 fine thin tips  
 tip width 0.2mm  
 length 3<sup>1</sup>/<sub>4</sub>"



**RS-5079**      **Micro Dissecting**  
 smooth jaws, angular  
 extra fine tips  
 tip width 0.2mm  
 length 3<sup>1</sup>/<sub>2</sub>"



**RS-5075**      **Micro Dissecting**  
 cross action  
 fine tips  
 tip width 0.2mm  
 length 3<sup>1</sup>/<sub>2</sub>"



**RS-5165**      **GILL**  
 slight curve  
 delicate cross  
 serrations  
 tip width 0.6mm  
 length 3"



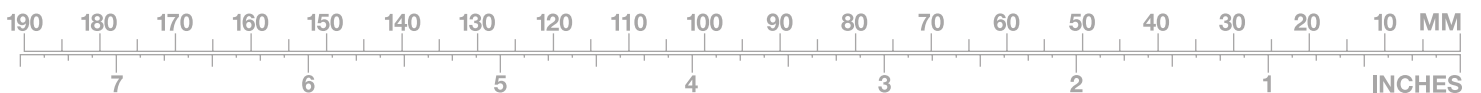
**RS-5166**      **GILL**  
 slight curve, 1x2 teeth  
 tip width 0.6mm  
 length 3"



**RS-5168**      **BOTVIN**  
 serrated tips  
 tip width 0.5mm  
 length 3"



**RS-5068**      **McPHERSON**  
 straight  
 smooth tying platform  
 tip 0.35 x 5mm  
 length 4"





RS-5069

**McPHERSON**  
angled  
smooth tying platform  
tip 0.35 x 5mm  
length 4"



RS-5172

**BONN**  
tying platform  
1x2 teeth  
0.12mm teeth  
0.3mm tip width  
length 3<sup>3</sup>/<sub>4</sub>"



RS-5174

**McPHERSON**  
straight  
with tying platform  
1 x 2 teeth  
0.2mm teeth  
0.45mm tip width  
length 4"



RS-5175

**McPHERSON**  
angled  
with tying platform  
1 x 2 teeth  
0.2mm teeth  
0.45mm tip width  
length 4"



RS-5090

**Micro Dissecting**  
straight  
fine sharp tips  
tip width 0.2mm  
length 4"



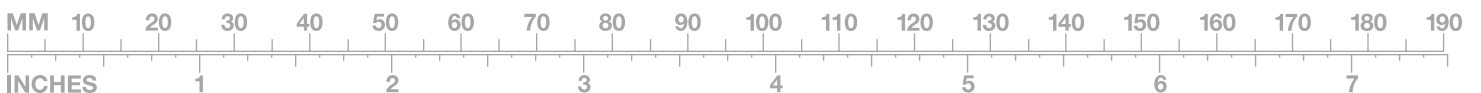
RS-5095

**Micro Dissecting**  
angled  
fine sharp tips  
tip width 0.2mm  
length 4"



RS-5096

**HARMS**  
micro suturing  
straight w/ tying  
platform  
tip width 0.6mm  
length 4"



RS-5097

**HARMS**  
 micro suturing  
 curved w/ tying  
 platform  
 tip width 0.6mm  
 length 4"



RS-5100

**FOERSTER**  
 straight  
 serrated tips  
 tip width 0.5mm  
 length 4"



RS-5101

**FOERSTER**  
 curved  
 serrated tips  
 tip width 0.5mm  
 length 4"



RS-5102

**FOERSTER**  
 straight  
 1x2 teeth  
 tip width 0.5mm  
 length 4"



RS-5103

**FOERSTER**  
 curved  
 1x2 teeth  
 tip width 0.5mm  
 length 4"



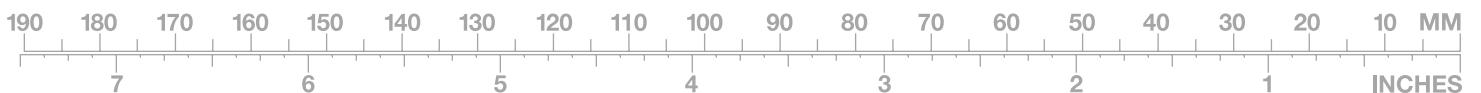
RS-5130

**Micro Dissecting**  
 serrated, straight  
 tip width 0.8mm  
 length 4"



RS-5132

**Micro Dissecting**  
 serrated, straight  
 extra delicate  
 tip width 0.5mm  
 length 4"





RS-5150

**Micro Dissecting**  
1x2 teeth, straight  
tip width 0.8mm  
length 4"



RS-5152

**Micro Dissecting**  
1x2 teeth, straight  
extra delicate  
tip width 0.5mm  
length 4"



RS-5135

**Micro Dissecting**  
serrated, slight curve  
tip width 0.8mm  
length 4"



RS-5136

**Micro Dissecting**  
serrated, slight curve  
extra delicate  
tip width 0.5mm  
length 4"



RS-5153

**Micro Dissecting**  
1x2 teeth, slight curve  
tip width 0.8mm  
length 4"



RS-5155

**Micro Dissecting**  
1x2 teeth, slight  
curve  
extra delicate  
tip width 0.5mm  
length 4"



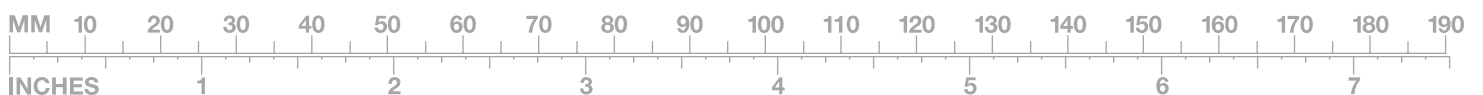
RS-5137

**Micro Dissecting**  
serrated, full curve  
tip width 0.8mm  
length 4"



RS-5138

**Micro Dissecting**  
serrated, full curve  
extra delicate  
tip width 0.5mm  
length 4"



**RS-5157**      **Micro Dissecting**  
 1x2 teeth, full curve  
 tip width 0.8mm  
 length 4"



**RS-5159**      **GRAEFE**  
 1x2 teeth, full curve  
 extra delicate  
 tip width 0.5mm  
 length 4"



**RS-5139**      **Micro Dissecting**  
 serrated, angular  
 tip width 0.8mm  
 length 4"



**RS-5158**      **Micro Dissecting**  
 1x2 teeth, angular  
 tip width 0.8mm  
 length 4"



**RS-5190**      **STEVENS**  
 1 x 2 teeth  
 tip width 1mm  
 length 4"



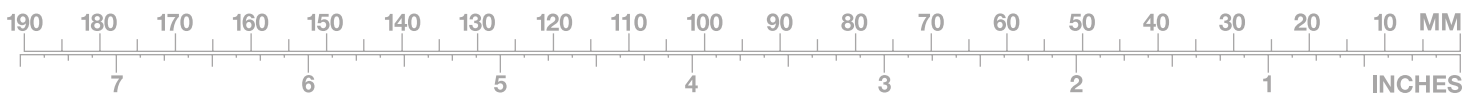
**RS-5204**      **McCULLOUGH**  
 smooth jaws  
 tip width 1.5mm  
 length 4"



**RS-5206**      cross serrated jaws  
 tip width 1.5mm  
 length 4"



**RS-5210**      **BONACCOLTO**  
 longitudinal serrations  
 cross serrated at tip  
 tip width 1.2mm  
 length 4"





RS-5211

**BRACKEN**

curved  
fine cross serrations  
length 4"



RS-5228

**NUGENT**

smooth jaws  
tip width 1.2mm  
length 4<sup>1/4</sup>"

RS-5229

angled  
straight



RS-5163

**ARRUGA**

micro embryonic  
capsule, curved  
length 4"

Please note: Handle in photo slightly different than actual instrument



RS-5230

**Micro-ADSON**

serrated, delicate  
tip width 0.5mm  
length 4<sup>3/4</sup>"



RS-5231

**BROWN ADSON**

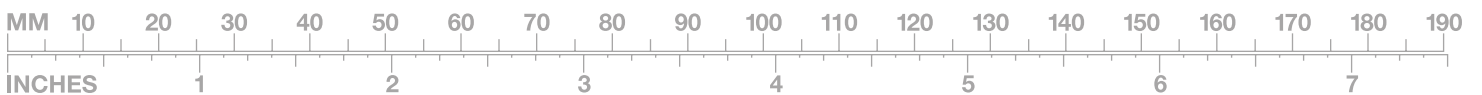
7x7 teeth  
side grasping  
length 4<sup>3/4</sup>"



RS-5232

**Micro-ADSON**

1 x 2 teeth, delicate  
tip width 0.5mm  
length 4<sup>3/4</sup>"



	<p><b>ADSON</b> length 4<sup>3/4</sup>" 1 x 2 teeth</p>	
RS-5233	with serrations tip width 1mm	 RS-5233 Shown
RS-5235	without serrations tip width 1mm	

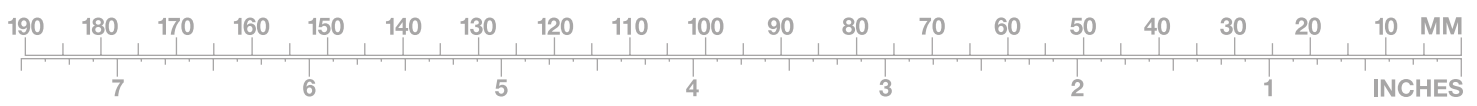
RS-5234	<p><b>ADSON</b> 2 x 3 teeth tip width 1.3mm length 4<sup>3/4</sup>"</p>	
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	<p><b>ADSON</b> tip width 1mm length 4<sup>3/4</sup>"</p>	
RS-5239	serrated	 RS-5236 Shown
RS-5236	cross serrated carbide jaws	

RS-5237	<p><b>HUDSON (EWALD)</b> serrated tip width 1.4mm length 4<sup>3/4</sup>"</p>	
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RS-5238	<p><b>HUDSON (EWALD)</b> tip width 1.4mm 1 x 2 teeth length 4<sup>3/4</sup>"</p>	
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	<p><b>SEMKEN</b> length 5"</p>	
RS-5240	serrated tip width 1.2mm	 RS-5242 Shown
RS-5242	1x2 teeth tip width 1.2mm	
RS-5244	2x3 teeth tip width 1.4mm	



**SEMKEN**  
tip width 1.6mm  
length 6"

**RS-5246**

serrated

**RS-5248**

1 x 2 teeth

RS-5248 Shown



**RS-5255**

**SINGLEY**  
organ holding forceps  
length 6"



RS-5262 Shown

**RHOTON**  
micro suturing  
w/ tying platform  
length 7"

**RS-5260**

tip width 0.6mm

**RS-5262**

tip width 0.3mm



RS-5264 Shown

**RHOTON**  
micro suturing  
w/ tying platform  
curved  
tip width 0.3mm

**RS-5263**

length 5"

**RS-5264**

length 7"



RS-5270 Shown

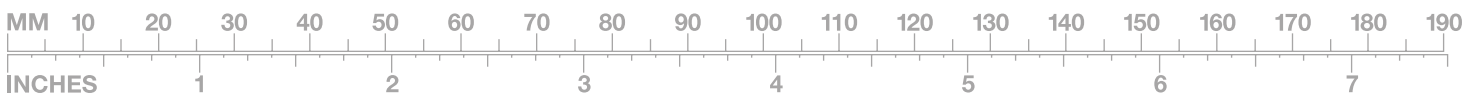
**GERALD**  
length 7"

**RS-5270**

straight, serrated

**RS-5272**

straight, 1 x 2 teeth





**GERALD**  
length 7"

RS-5271

curved, serrated

RS-5273

curved, 1 x 2 teeth



RS-5271 Shown

**CUSHING**  
scraper end  
length 7"

RS-5280

serrated

RS-5282

1 x 2 teeth



RS-5280 Shown

**CUSHING**  
cross serrated  
length 7"

RS-5284

carbide jaws



**POTTS-SMITH**  
serrated

RS-5310

length 7"

RS-5312

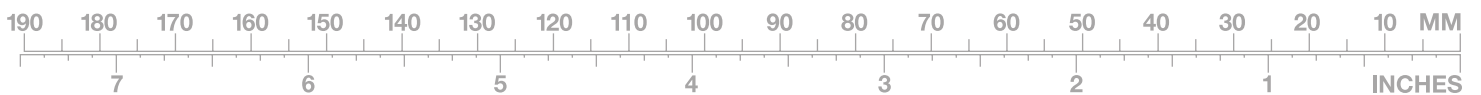
length 8<sup>1/4</sup>"

RS-5314

length 9<sup>1/2</sup>"



RS-5310 Shown



RS-5320

**POTTS-SMITH**

1 x 2 teeth  
serrated  
length 7"

RS-5320 Shown



RS-5348

**Micro Alligator**

serrated jaws  
tip width 0.8mm  
jaw length 4mm  
shaft length 3<sup>1</sup>/<sub>4</sub>"



RS-5358 Shown

RS-5358

**Micro Dissecting**

angled  
tip length 11mm  
length 6"

RS-5359

serrated jaws  
smooth jaws



RS-8100 Shown

RS-8100

**Thumb Dressing**  
serrated

RS-8102

length 4<sup>1</sup>/<sub>2</sub>"

RS-8104

length 5"

RS-8106

length 5<sup>1</sup>/<sub>2</sub>"

RS-8108

length 6"

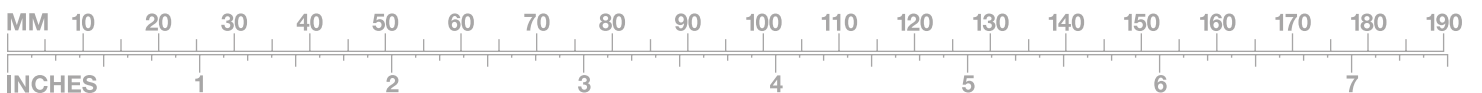
RS-8110

length 8"

RS-8112

length 10"

length 12"



**Thumb Dressing**  
delicate, serrated

- RS-8120 length 4 1/2"
- RS-8122 length 5"
- RS-8124 length 5 1/2"
- RS-8126 length 6"



RS-8120 Shown

- RS-8140 **Thumb Dressing**  
serrated  
tip width 2.0mm  
length 3"



**BROWN**  
8 x 8 teeth  
side grasping

- RS-8242 length 6"
- RS-8243 length 8"
- RS-8244 length 10"



RS-8242 Shown

**Splinter Forceps**  
serrated  
fine points  
tip width 0.3mm

- RS-8150 length 3 1/2"
- RS-8152 length 4"
- RS-8154 length 4 1/2"



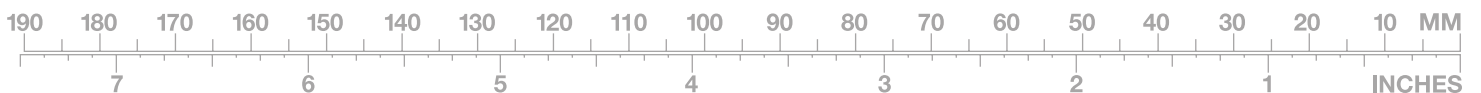
RS-8150 Shown

**Tissue Forceps**  
1 x 2 teeth

- RS-8160 length 4 1/2"
- RS-8162 length 5"
- RS-8164 length 5 1/2"
- RS-8166 length 6"



RS-8160 Shown





RS-8180 Shown

RS-8180

**Tissue Forceps**  
1 x 2 teeth  
delicate

length 4<sup>1</sup>/<sub>2</sub>"

RS-8182

length 5"

RS-8184

length 5<sup>1</sup>/<sub>2</sub>"

RS-8186

length 6"



RS-8208 Shown

RS-8208

**Tissue Forceps**  
2 x 3 teeth

length 4<sup>1</sup>/<sub>2</sub>"

RS-8210

length 5"

RS-8212

length 5<sup>1</sup>/<sub>2</sub>"

RS-8214

length 6"



RS-8220 Shown

RS-8220

**Tissue Forceps**  
3 x 4 teeth

length 5"

RS-8224

length 6"



RS-8240

**STILLE**  
4 x 5 teeth  
length 5"



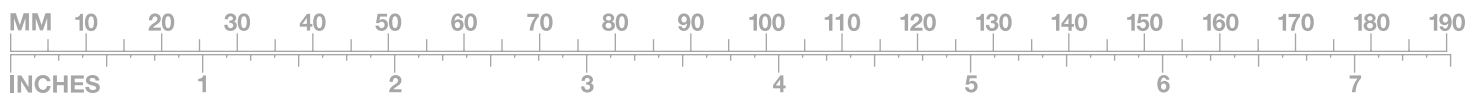
RS-8247

**HARMON**  
4 x 5 teeth  
jaw width 2.5mm  
length 3"



RS-8248

**GRAEFE**  
with fine teeth  
jaw width 4.5mm  
length 4<sup>1</sup>/<sub>4</sub>"



**RS-8249**      **GRAEFE**  
locking  
jaw width 4.5mm  
fine teeth  
length 4<sup>1/4</sup>"



**RS-8254**      **MOLONEY**  
serrated  
slight curve  
tip width 0.8mm  
length 4<sup>1/2</sup>"



**RS-8260**      **KUEHNE**  
flat jaw  
length 4"



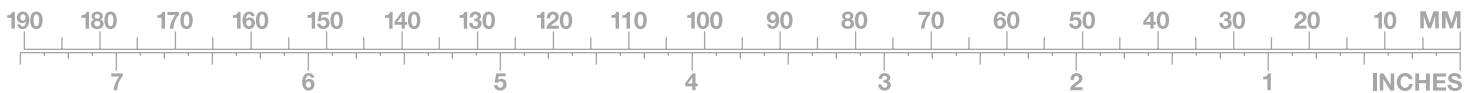
**RS-8261**      angled  
straight

**RS-8270**      **RUSSIAN**  
length 6"



RS-8270 Shown

**RS-8280**      **WILDE**  
serrated, angular  
length 5"





RS-8290

**LUCAE**  
serrated,  
bayonet  
length 5<sup>3</sup>/<sub>4</sub>"



80% of Actual Size

RS-8298

**JANSEN**  
serrated,  
bayonet  
length 8<sup>1</sup>/<sub>4</sub>"



RS-7560 Shown

RS-7560

RS-7562

**DeBAKEY**  
jaw width 2.5mm  
length 6"  
length 7<sup>3</sup>/<sub>4</sub>"

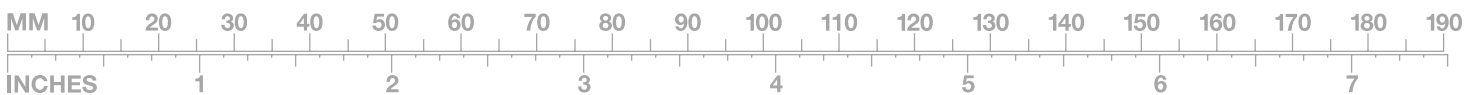


RS-7561 Shown

RS-7561

RS-7566

**DeBAKEY**  
jaw width 1.5mm  
length 6"  
length 8"



**HARTMAN**

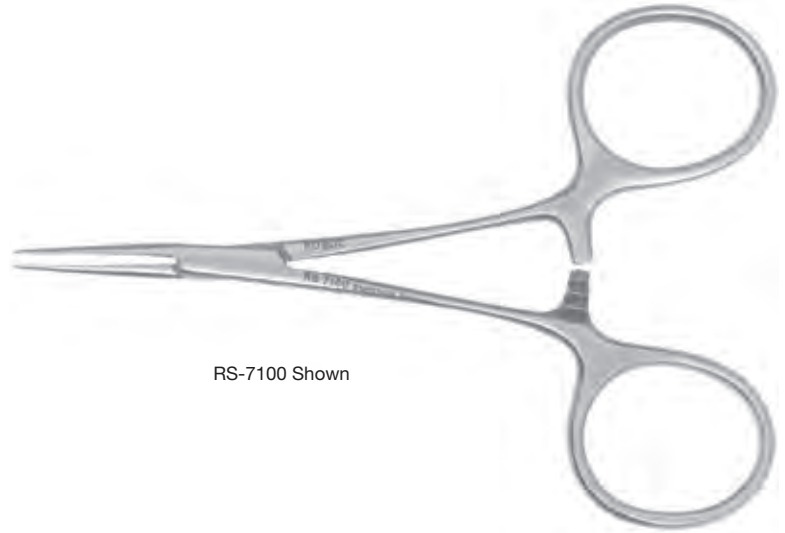
mosquito  
length 4"  
tip diameter 0.8mm  
jaw width 1.9mm

RS-7100

straight

RS-7101

curved



RS-7100 Shown

**HALSTED**

mosquito  
length 5"  
tip diameter 1.3mm  
jaw width 2.1mm

RS-7110

straight

RS-7110L

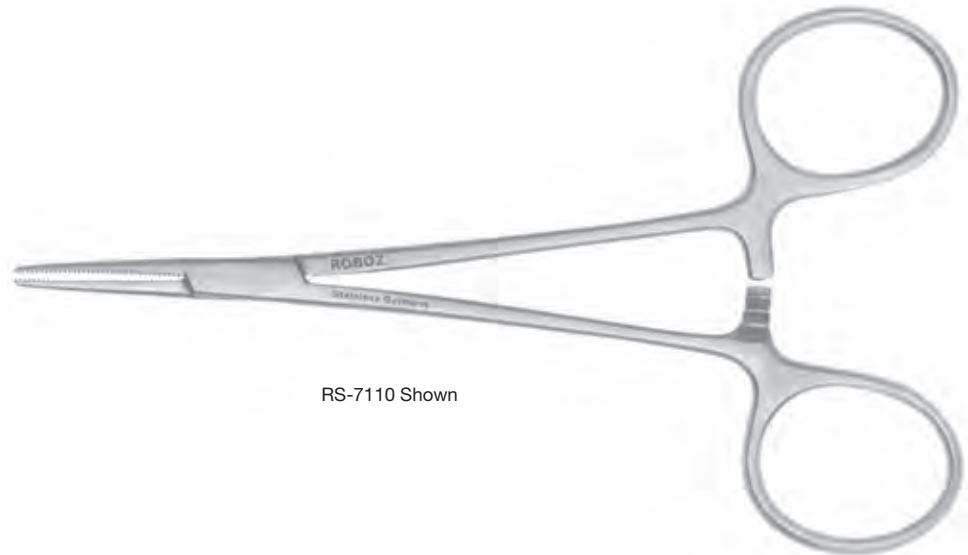
left-handed version

RS-7111

curved

RS-7111L

left-handed version



RS-7110 Shown

**HALSTED**

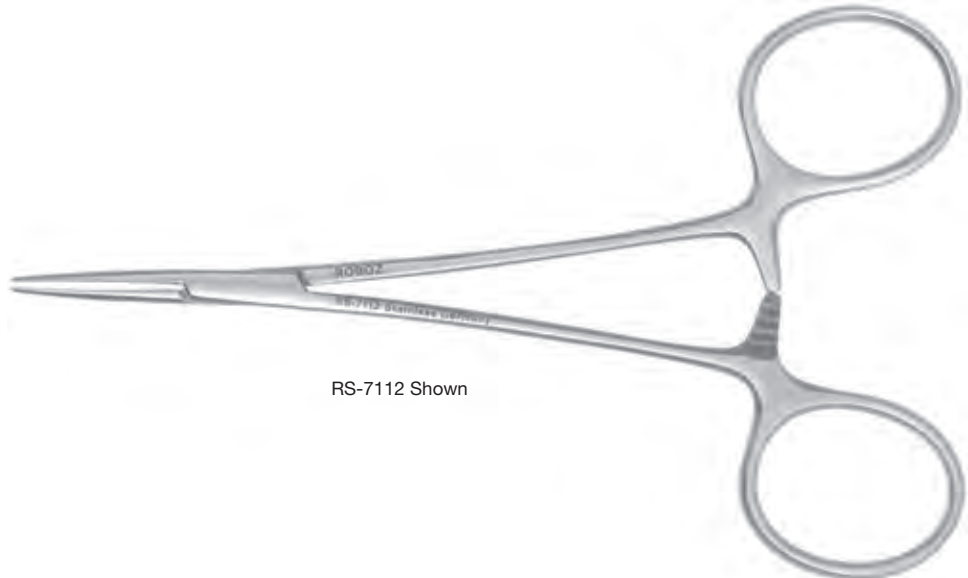
mosquito  
extra delicate  
length 5"  
tip diameter 0.6mm  
jaw width 1.7mm

RS-7112

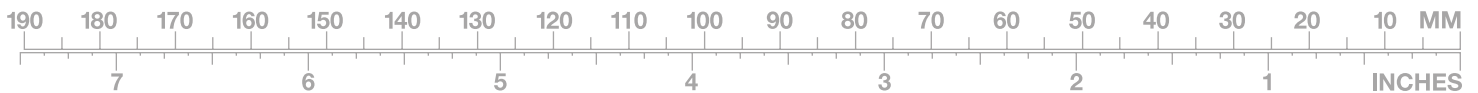
straight

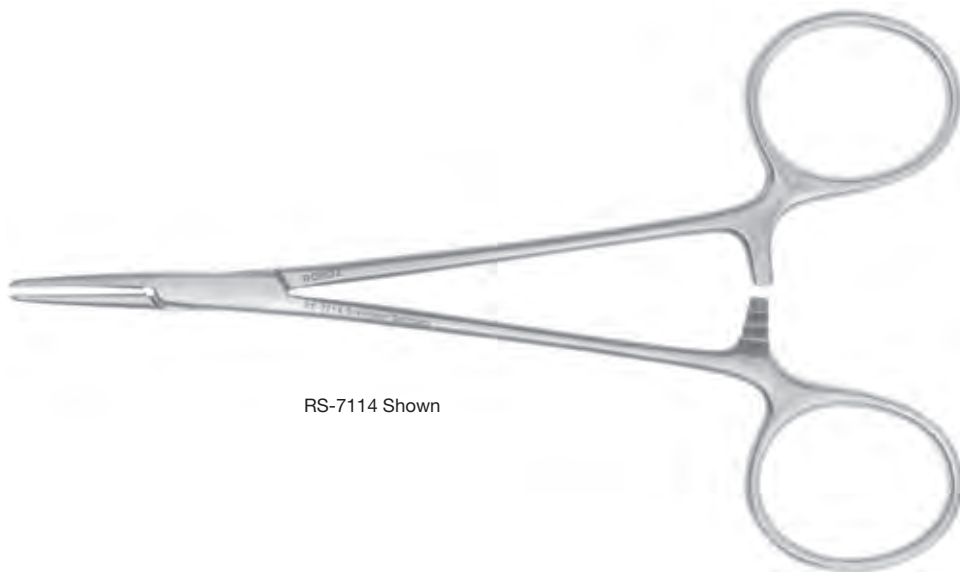
RS-7113

curved



RS-7112 Shown





RS-7114 Shown

**RS-7114**

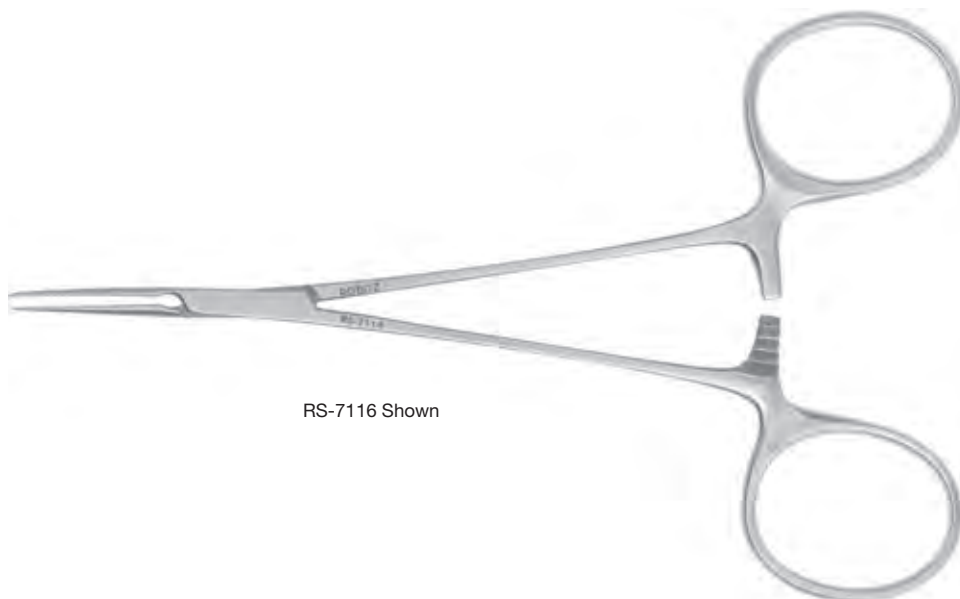
straight

**RS-7115**

curved

**PACKER**

mosquito  
flat tapered jaws  
length 5"  
tip diameter 0.6mm  
jaw width 1.1mm



RS-7116 Shown

**RS-7116**

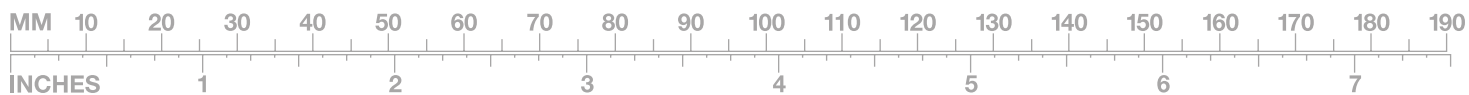
straight

**RS-7117**

curved

**JACOBSON**

micro mosquito  
extra delicate  
light weight  
length 5"  
tip diameter 0.9mm  
jaw width 1.3mm





**KELLY**

length 5 1/2"  
tip diameter 1.5mm  
jaw width 2.3mm

- RS-7130 straight
- RS-7130L left-handed version
- RS-7131 curved
- RS-7131L left-handed version

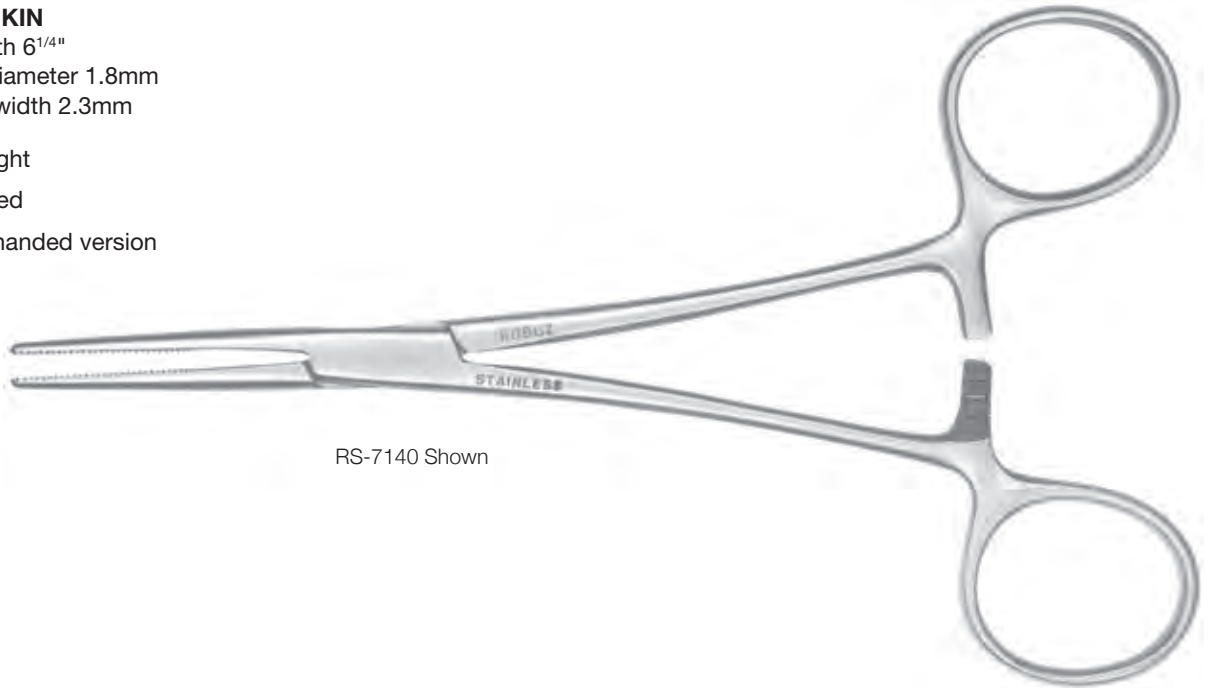


RS-7130 Shown

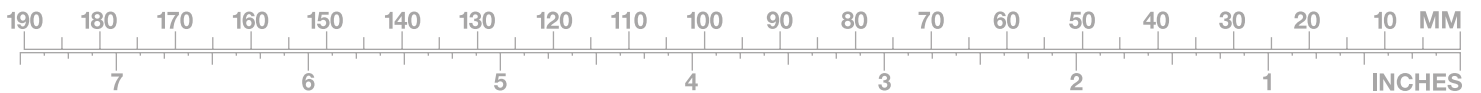
**RANKIN**

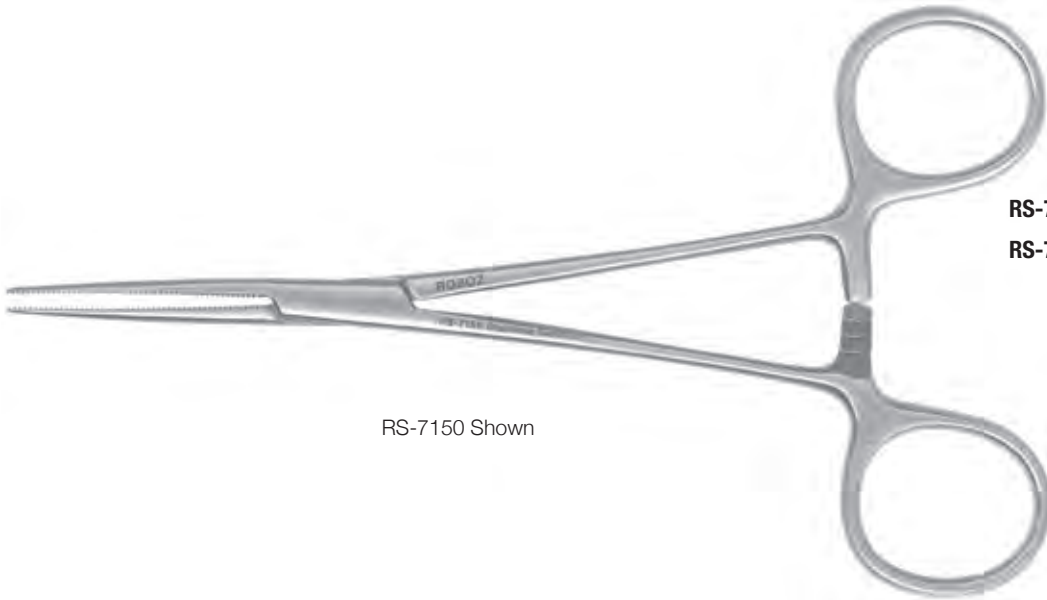
length 6 1/4"  
tip diameter 1.8mm  
jaw width 2.3mm

- RS-7140 straight
- RS-7141 curved
- RS-7141L left-handed version



RS-7140 Shown





RS-7150 Shown

RS-7150  
RS-7151

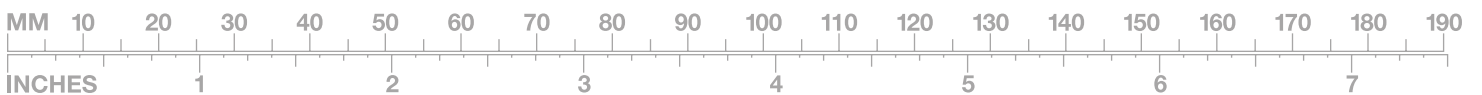
**CRILE**  
extra delicate  
length 5<sup>1/2</sup>"  
tip diameter 0.9mm  
jaw width 1.7mm  
  
straight  
curved



RS-7152 Shown

RS-7152  
  
RS-7153  
  
RS-7154

**CRILE**  
  
straight  
length 5<sup>1/2</sup>"  
tip diameter 1.5mm  
jaw width 2.3mm  
  
curved  
length 5<sup>1/2</sup>"  
tip diameter 1.5mm  
jaw width 2.3mm  
  
straight  
length 6<sup>1/4</sup>"  
tip diameter 1.9mm  
jaw width 2.6mm

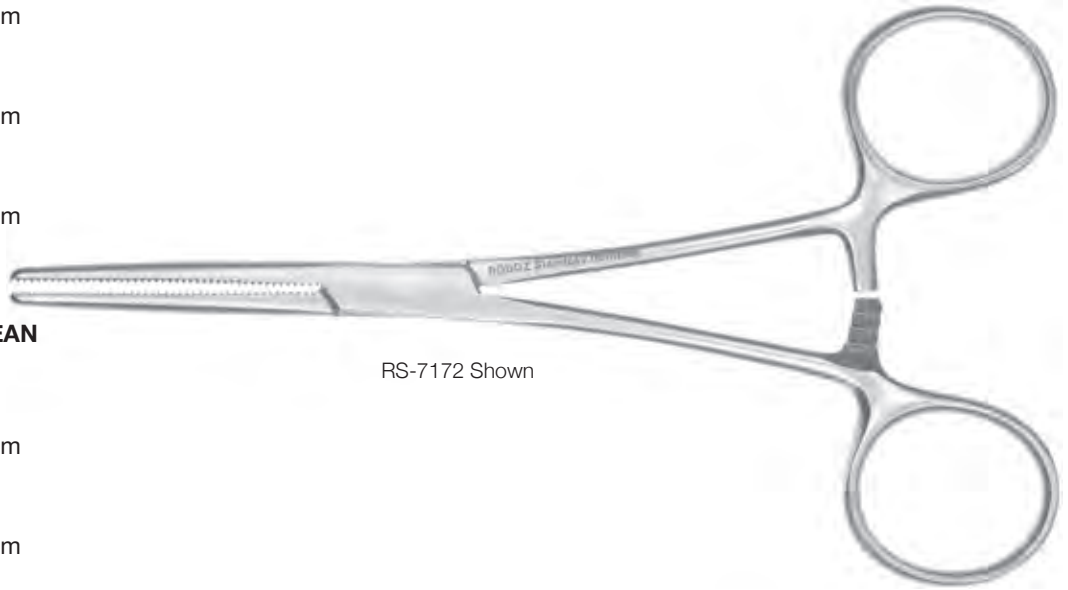


**ROCHESTER-PEAN**  
straight

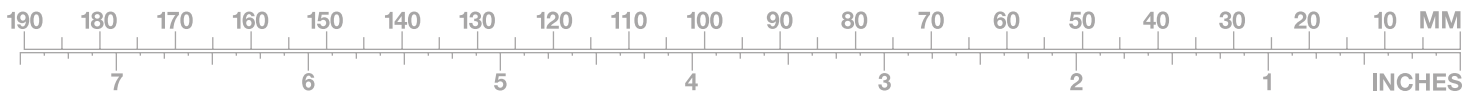
- RS-7172** length 5<sup>1</sup>/<sub>2</sub>"  
tip diameter 2.4mm  
jaw width 2.8mm
- RS-7174** length 6<sup>1</sup>/<sub>4</sub>"  
tip diameter 2.6mm  
jaw width 3.4mm
- RS-7176** length 7<sup>1</sup>/<sub>4</sub>"  
tip diameter 3.1mm  
jaw width 3.8mm
- RS-7182** length 10"  
tip diameter 3.8mm  
jaw width 4.1mm

**ROCHESTER-PEAN**  
curved

- RS-7173** length 5<sup>1</sup>/<sub>2</sub>"  
tip diameter 2.4mm  
jaw width 2.8mm
- RS-7175** length 6<sup>1</sup>/<sub>4</sub>"  
tip diameter 2.6mm  
jaw width 3.4mm
- RS-7177** length 7<sup>1</sup>/<sub>4</sub>"  
tip diameter 3.1mm  
jaw width 3.8mm
- RS-7183** length 10"  
tip diameter 3.8mm  
jaw width 4.1mm



RS-7172 Shown



RS-7211

**REYNOLDS**

full-curve  
length 5<sup>1</sup>/<sub>2</sub>"  
tip diameter 1.3mm  
jaw width 2.2mm



RS-7220

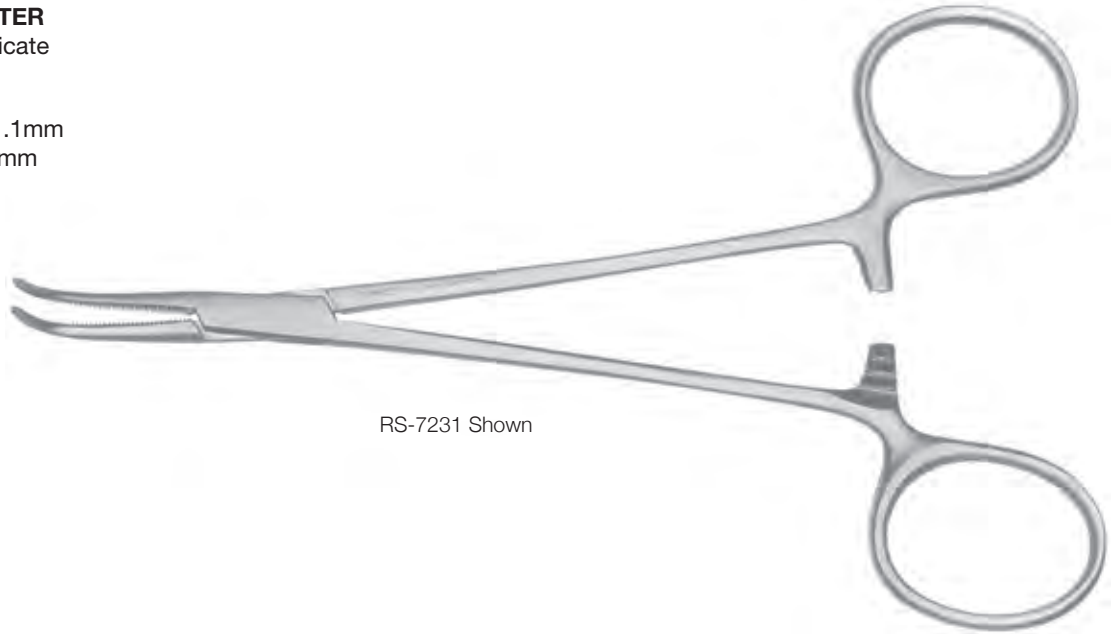
**PENNINGTON**

triangular jaws  
length 6"  
tip diameter 11mm  
jaw width 9.5mm



**GEMINI-MIXTER**  
full curve, delicate

- RS-7231**      length 5<sup>1</sup>/<sub>2</sub>"  
                 tip diameter 1.1mm  
                 jaw width 1.9mm
- RS-7233**      length 7"



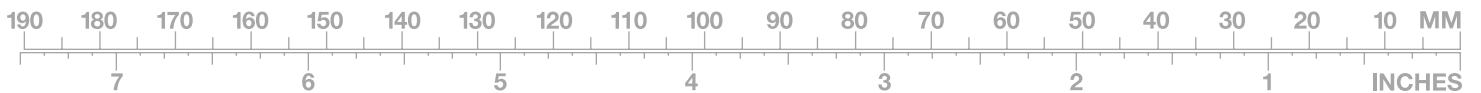
RS-7231 Shown

**ADSON**  
length 7<sup>1</sup>/<sub>4</sub>"  
tip diameter 1.5mm  
jaw width 2.3mm

- RS-7250**      straight
- RS-7251**      curved



RS-7250 Shown



**Mosquito**

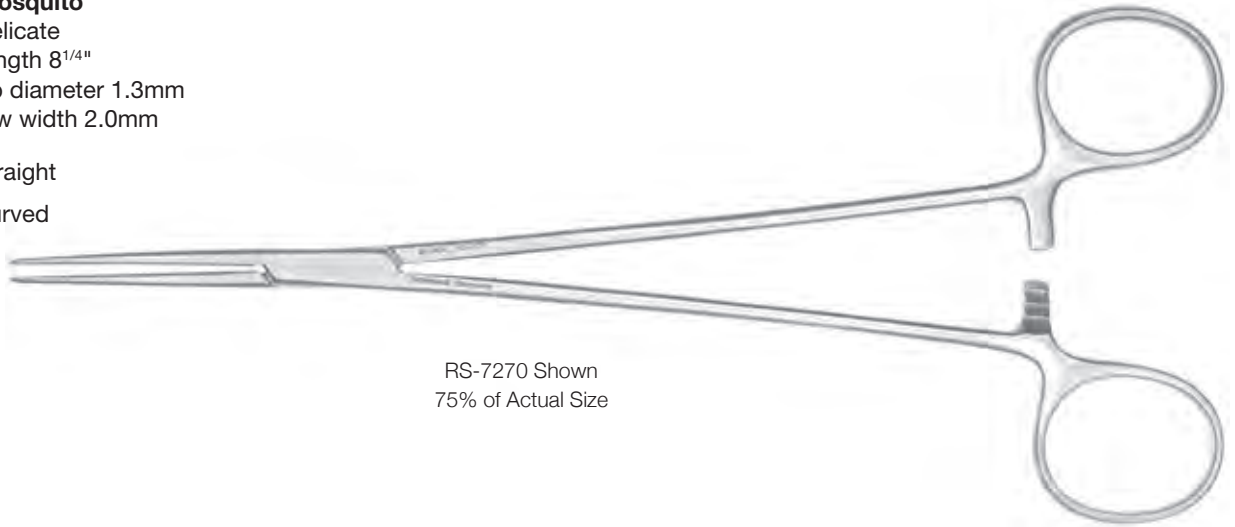
delicate  
length 8<sup>1/4"</sup>  
tip diameter 1.3mm  
jaw width 2.0mm

RS-7270

straight

RS-7271

curved

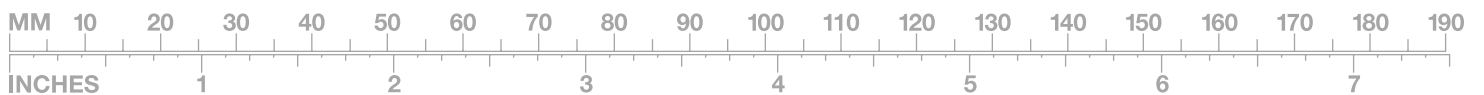


RS-7270 Shown  
75% of Actual Size

RS-7291

**MIXTER**

curved, extra delicate  
length 5<sup>1/2"</sup>  
tip diameter 1.1mm  
jaw width 1.8mm



RS-7293

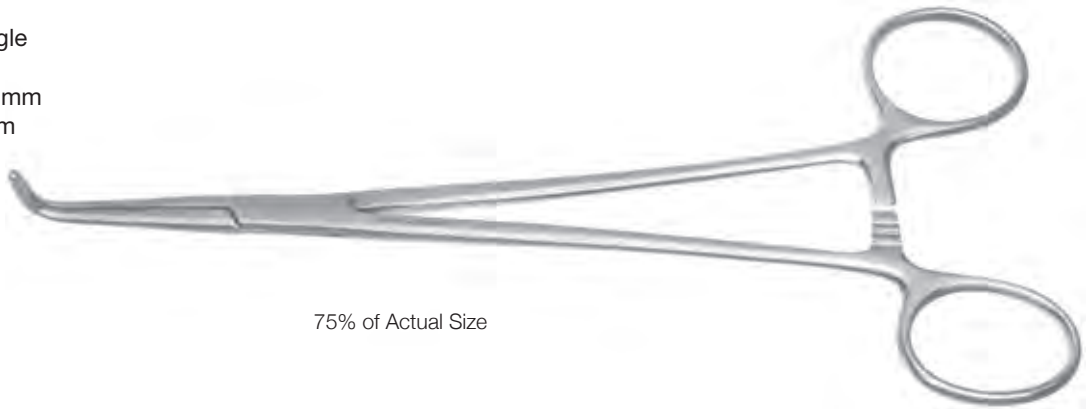
**MIXTER**  
full curve  
length 6<sup>1/4</sup>  
diameter 2.5mm  
jaw width 3.2mm



RS-7293 Shown

RS-7305

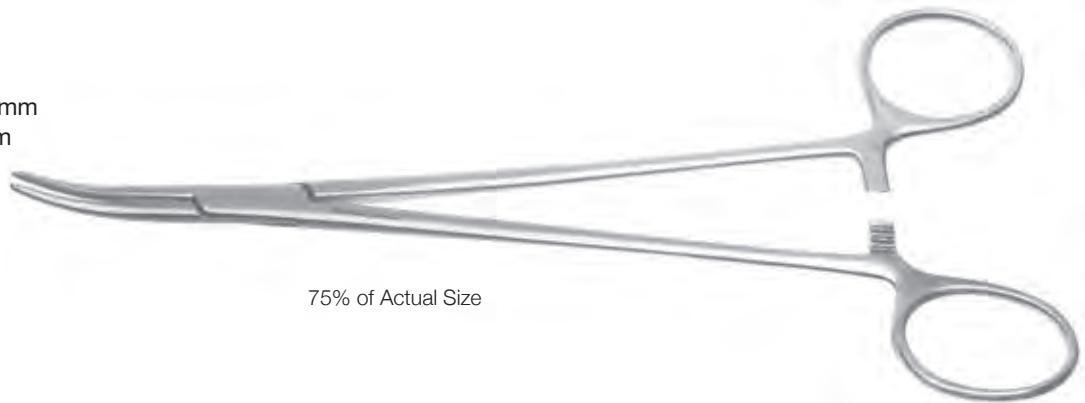
**KANTROWITZ**  
delicate, 90° angle  
length 7<sup>1/2</sup>  
tip diameter 1.7mm  
jaw width 2.3mm



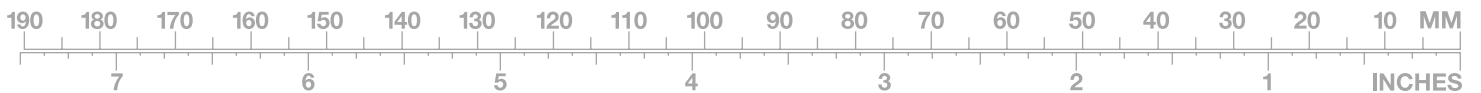
75% of Actual Size

RS-7341

**SCHNIDT**  
slight curve  
length 7<sup>1/2</sup>  
tip diameter 1.7mm  
jaw width 2.3mm



75% of Actual Size





RS-7580 Shown

**RS-7580**

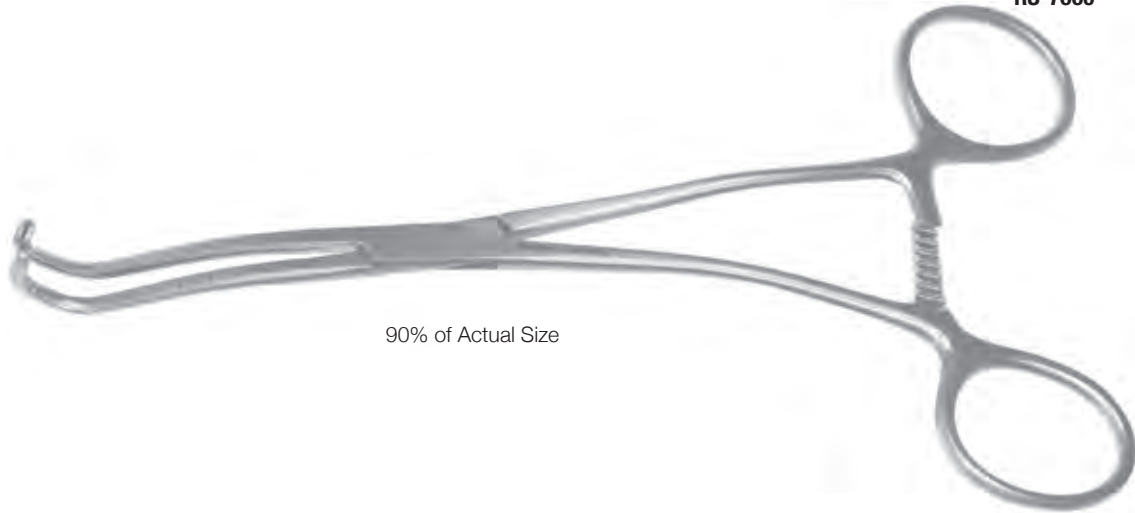
**RS-7581**

**DeBAKEY**

bulldog clamps  
ring handle  
length 4<sup>3/4</sup>"  
tip diameter 1.7mm  
jaw width 2.0mm

straight

curved

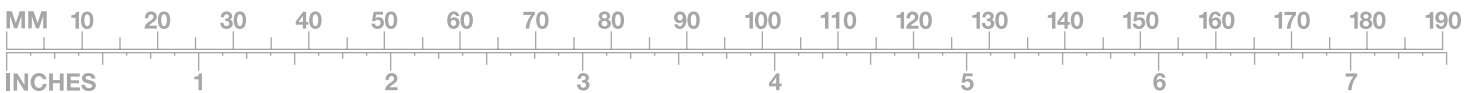


90% of Actual Size

**RS-7660**

**COOLEY-DERRA**

anastomosis clamp  
5mm calibrations  
on jaws  
length 6<sup>1/4</sup>"  
small clamp  
jaw width 2.6mm





**ALLIS**

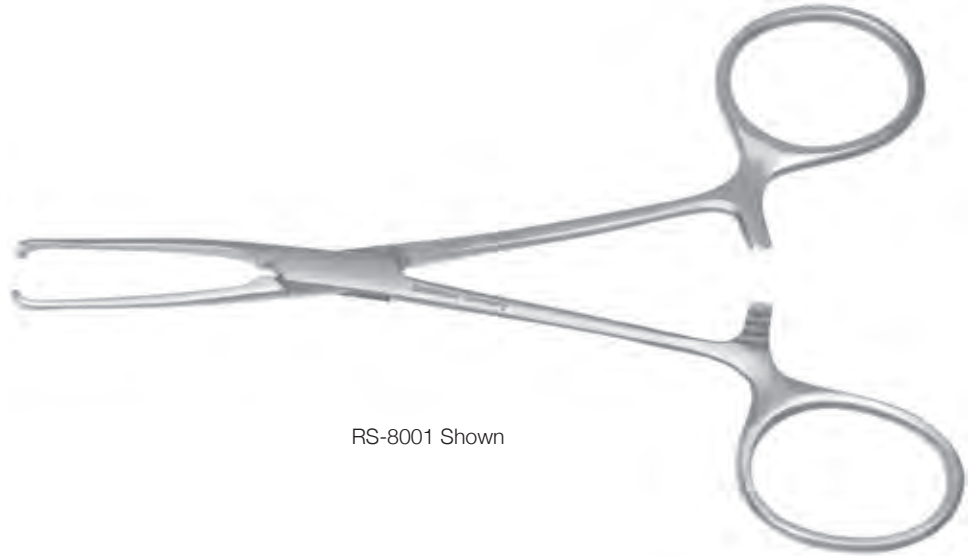
4x5 teeth, delicate

**RS-8000**

jaw width 4mm  
length 5<sup>1</sup>/<sub>2</sub>"

**RS-8001**

jaw width 2.5mm  
length 5"



RS-8001 Shown

**ALLIS**

4x5 teeth  
jaw width 4.5mm  
length 6"

**RS-8002**

5x6 teeth  
jaw width 5.8mm  
length 6"

**RS-8004**



RS-8002 Shown

**BABCOCK**

jaw width 6mm  
length 5<sup>1</sup>/<sub>2</sub>"

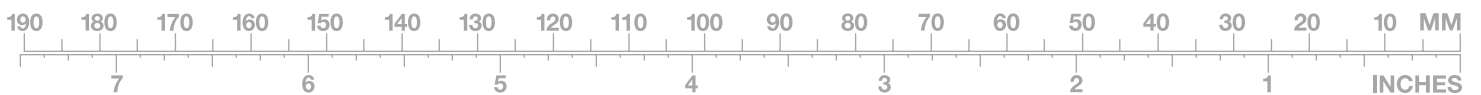
**RS-8020**

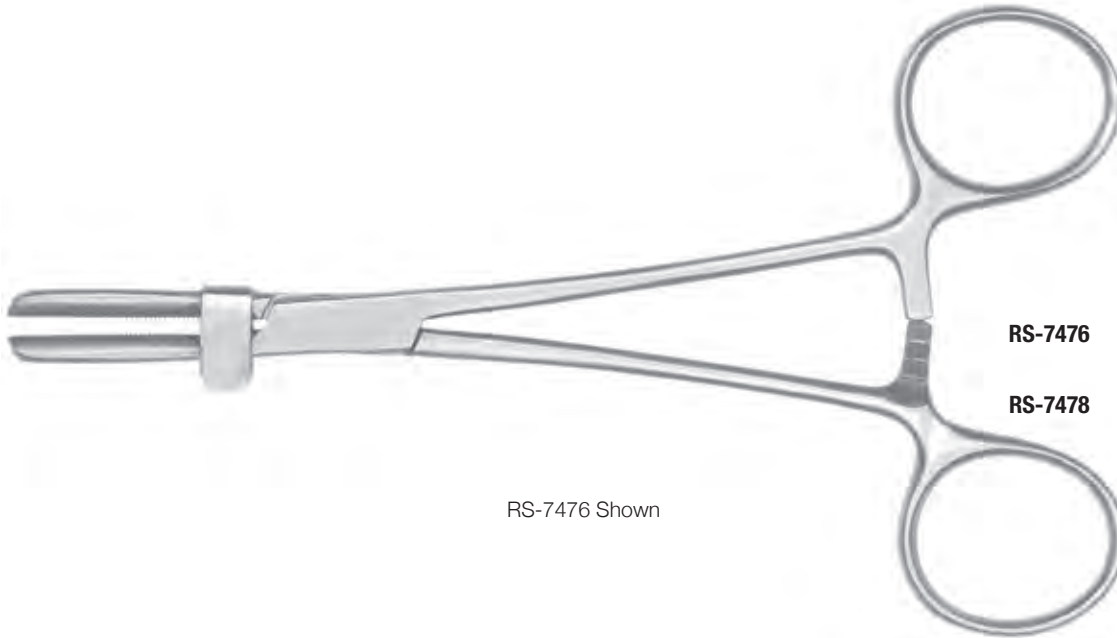
jaw width 9mm  
length 6<sup>1</sup>/<sub>4</sub>"

**RS-8022**



RS-8020 Shown





RS-7476 Shown

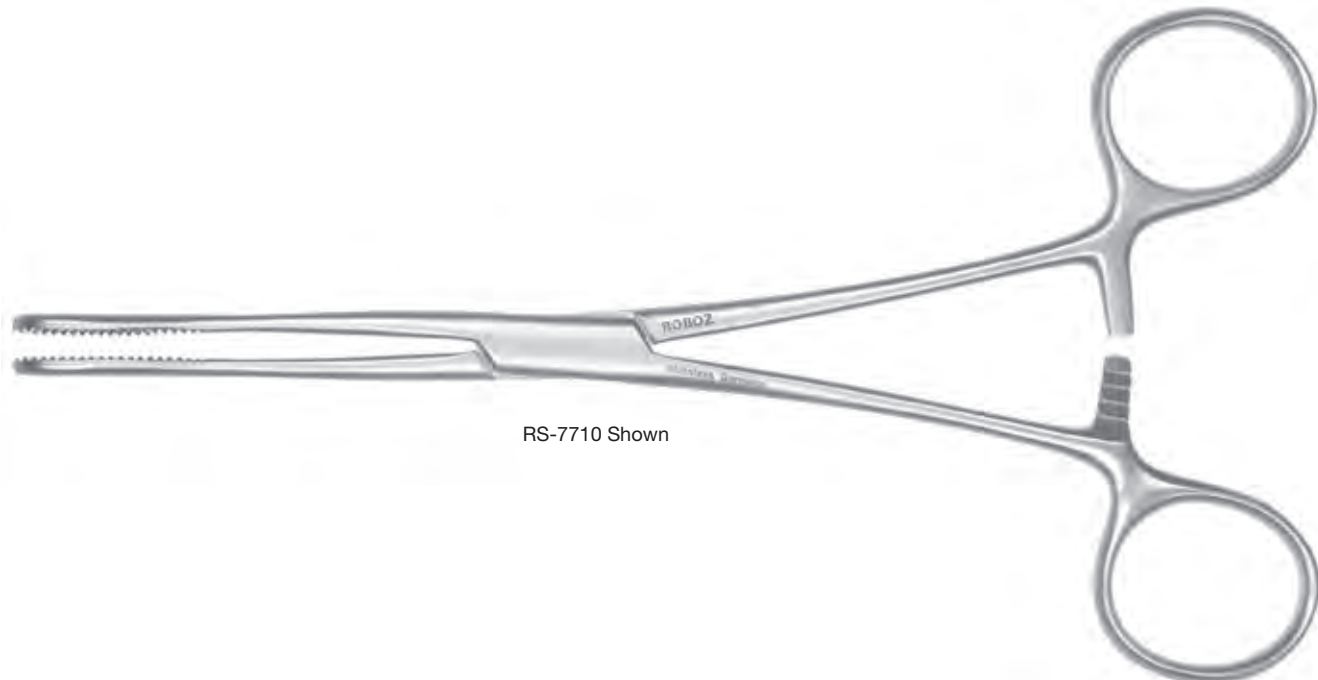
**RS-7476**

**RS-7478**

**ST. VINCENT**  
tube Occluding  
forceps  
narrow jaws  
straight, serrated  
with lockguard

length 5<sup>3</sup>/<sub>4</sub>"  
jaw width 4mm

length 7<sup>1</sup>/<sub>2</sub>"  
jaw width 5.5mm



RS-7710 Shown

**RS-7710**

**RS-7720**

**FOERSTER**  
sponge forceps

straight,  
serrated jaws  
length 7"

length 9<sup>1</sup>/<sub>2</sub>"  
straight, serrated jaws  
length 9<sup>1</sup>/<sub>2</sub>"  
jaw width 14.5mm



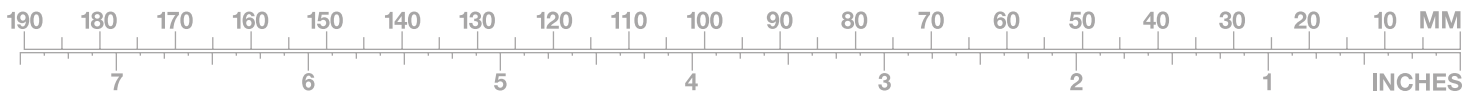
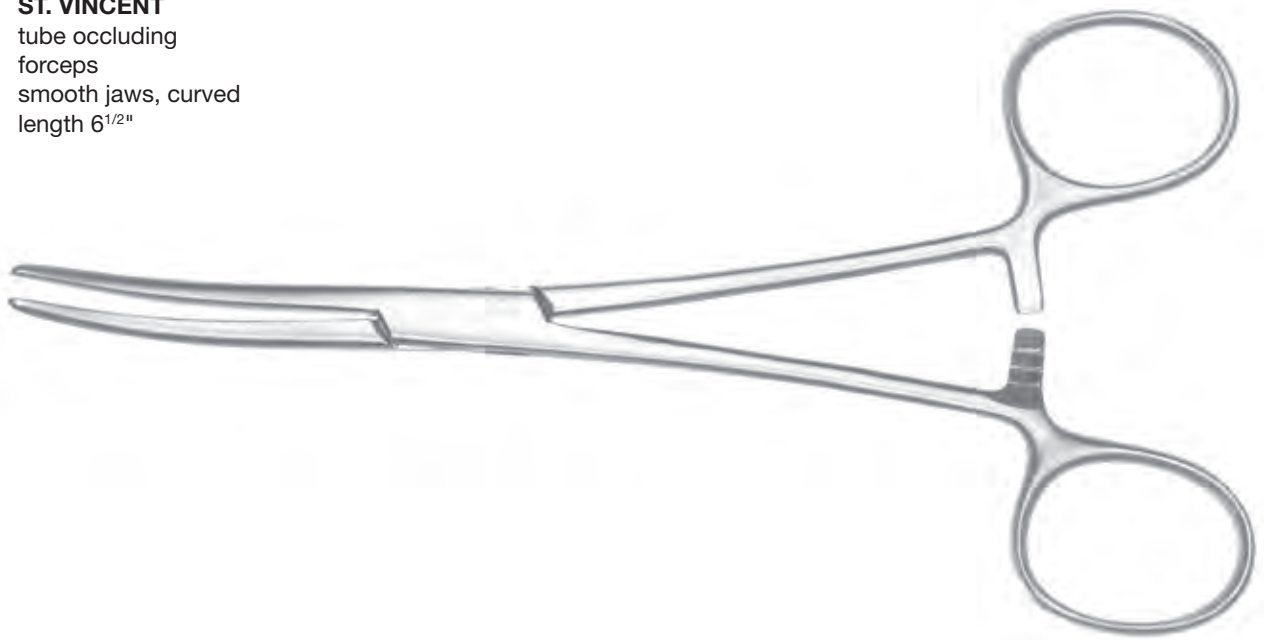
**Tube Occluding Forceps**  
smooth jaws, straight

- 65-7480 length 4<sup>1</sup>/<sub>2</sub>"
- 65-7490 length 7"



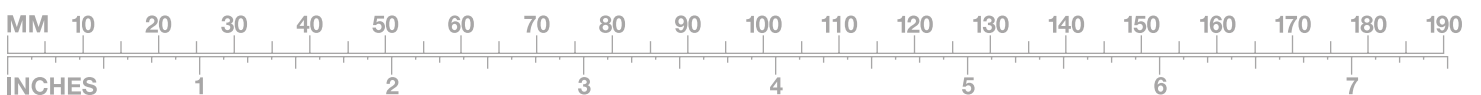
65-7480 Shown

- 65-7487 **ST. VINCENT**  
tube occluding forceps  
smooth jaws, curved  
length 6<sup>1</sup>/<sub>2</sub>"

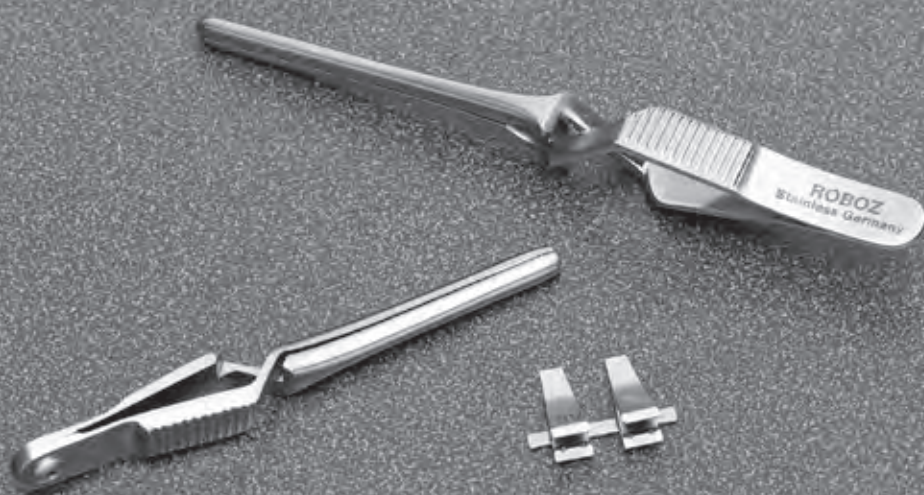


COMPARISON OF MILLIMETERS TO INCHES			
MM	INCHES	MM	INCHES
0.33	.013	6	.236
0.5	.020	6.33	.249
0.67	.026	6.5	.256
1	.039	6.67	.263
1.33	.052	7	.275
1.5	.059	7.33	.288
1.67	.066	7.5	.295
2	.079	7.67	.302
2.33	.092	8	.315
2.5	.098	8.33	.328
2.67	.105	8.5	.335
3	.118	8.67	.341
3.33	.131	9	.354
3.5	.138	9.33	.367
3.67	.144	9.5	.374
4	.157	9.67	.380
4.33	.170	10	.394
4.5	.177	10.33	.407
4.67	.184	10.67	.420
5	.197	11	.433
5.33	.210	11.33	.446
5.5	.216	11.67	.459
5.67	.223	12	.472

COMPARISON OF INCHES TO MILLIMETERS				COMPARISON OF INCHES TO CENTIMETERS		COMPARISON OF CENTIMETERS TO INCHES	
INCHES	MM	INCHES	MM	INCHES	CM	CM	INCHES
1/32	0.79	17/32	13.49	1	2.54	1	.3937
1/16	1.59	9/16	14.29	2	5.08	2	.7874
3/32	2.38	19/32	15.08	3	7.62	3	1.1811
1/8	3.18	5/8	15.88	4	10.16	4	1.5748
5/32	3.97	21/32	16.67	5	12.70	5	1.9685
3/16	4.76	11/16	17.46	6	15.24	6	2.3622
7/32	5.56	23/32	18.26	7	17.78	7	2.7559
1/4	6.35	3/4	19.05	8	20.32	8	3.1496
9/32	7.14	25/32	19.84	9	22.86	9	3.5433
5/16	7.94	13/16	20.64	10	25.40	10	3.9370
11/32	8.73	27/32	21.43	11	27.94	20	7.8740
3/8	9.53	7/8	22.22	12	30.48	30	11.8110
13/32	10.32	29/32	23.02	13	33.02	40	15.7480
7/16	11.11	15/16	23.81	14	35.56		
15/32	11.91	31/32	24.61	15	38.10		
1/2	12.07	1"	25.40				



# Clips and Clamps



RS-5420



**Micro Clip**  
straight  
70gr pressure  
clip width 0.75mm  
jaw length 5mm

RS-5422



**Micro Clip**  
straight  
70gr pressure  
clip width 0.75mm  
jaw length 6mm

RS-5424



**Micro Clip**  
straight  
70gr pressure  
clip width 1mm  
jaw length 8mm

RS-5426



**Micro Clip**  
straight  
70gr pressure  
clip width 1.5mm  
jaw length 10mm

RS-5431



**Micro Clip**  
slight curve  
70gr pressure  
clip width 1mm  
jaw length 6mm

RS-5433



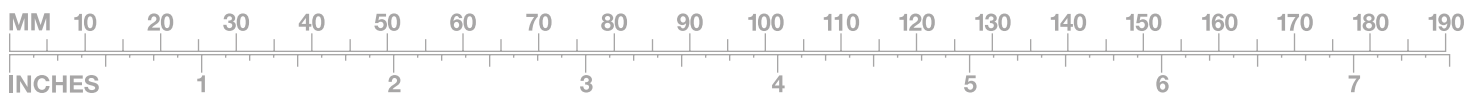
**Micro Clip**  
strong curve  
70gr pressure  
clip width 1mm  
jaw length 6mm

RS-5435



**Micro Clip**  
45° angle  
70gr pressure  
clip width 1mm  
jaw length 6mm

Please use clip applying forceps with these micro clips to avoid damage and for ease of use.



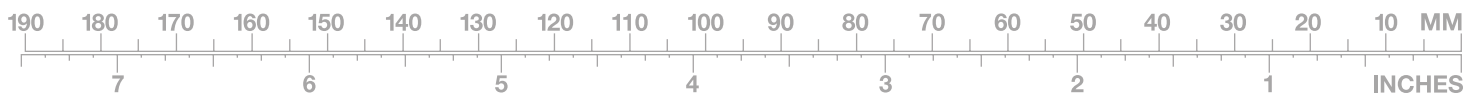
**RS-5410**      **Clip Applying Forceps**  
for micro clips  
length 5<sup>1</sup>/<sub>2</sub>"



**RS-5440**      **Micro Clip**  
applying forceps  
with lock  
length 5<sup>3</sup>/<sub>4</sub>"

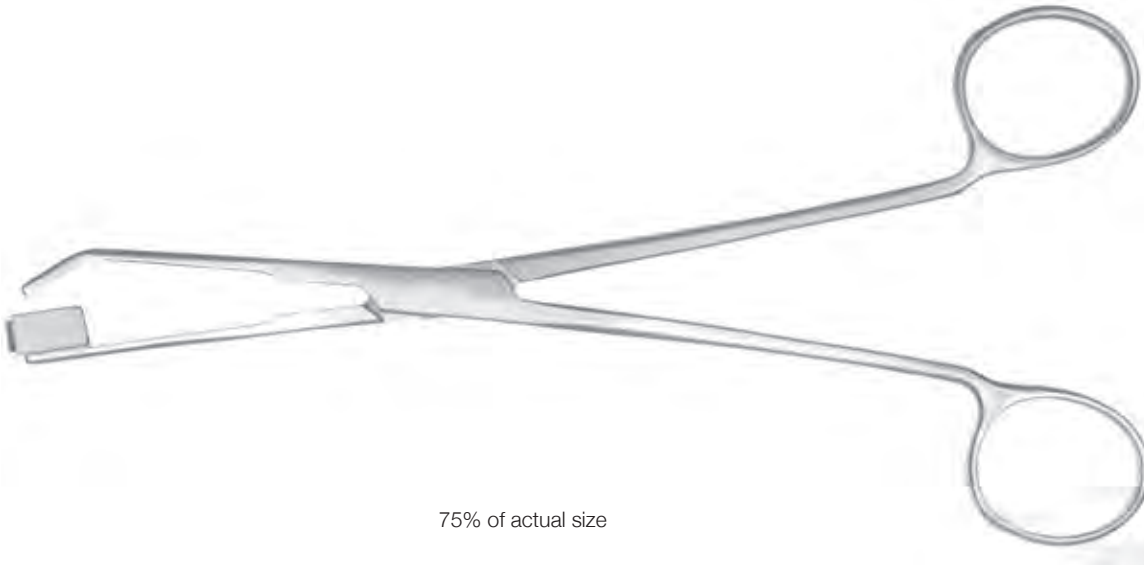


Clips and Clamps not intended for clinical use.



RS-5450

**SCHWARTZ**  
clip applying forceps  
for temporary clips  
length 8"



75% of actual size

RS-5452

**SCHWARTZ**  
temporary clip  
straight, smooth  
795gr pressure  
jaw width 1.7mm  
jaw length 8mm  
clip length 1"



RS-5457

**SCHWARTZ**  
temporary clip  
slight angle, smooth  
795gr pressure  
jaw width 1.7mm  
jaw length 8mm  
clip length 1"



RS-5459

**SCHWARTZ**  
temporary clip  
strong angle, smooth  
795gr pressure  
jaw width 1.7mm  
jaw length 8mm  
clip length 1"



Clips and Clamps not intended for clinical use.





**RS-6470**      **Micro Vascular Clip**  
 vessel diameter 1mm  
 occlusion pressure 30-35gr  
 length 8mm



**RS-6472**      **Micro Vascular Clip**  
 vessel diameter 1-2mm  
 occlusion pressure 35-40gr  
 length 11mm



**RS-6474**      **Micro Vascular Clip**  
 vessel diameter 2-3mm  
 occlusion pressure 50-60gr  
 length 14mm



**RS-6488**      **Micro Vascular Approximator**  
 with moveable clips  
 vessel diameter 1mm  
 occlusion pressure 30-35gr  
 length 8mm



**RS-6490**      **Micro Vascular Approximator**  
 with moveable clips  
 vessel diameter 1-2mm  
 occlusion pressure 35-40gr  
 length 11mm



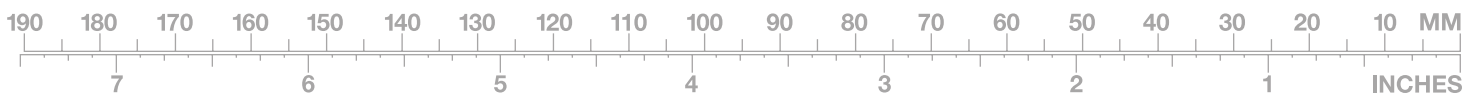
**RS-6492**      **Micro Vascular Approximator**  
 with moveable clips  
 vessel diameter 2-3mm  
 occlusion pressure 50-60gr  
 length 14mm



**RS-6496**      **Micro Clip Setting**  
 forceps  
 length 4<sup>3</sup>/<sub>4</sub>"



To avoid damage and for ease of use, please use the micro vascular clips with these clip setting forceps.





RS-5470

**DIEFFENBACH**  
 serrefine  
 straight, very delicate  
 250gr pressure  
 length 1<sup>1/8</sup>"



RS-5471

**DIEFFENBACH**  
 serrefine  
 curved, very delicate  
 250gr pressure  
 length 1<sup>1/8</sup>"



RS-7438

**DIETRICH**  
 micro bulldog clamp  
 straight  
 80gr pressure  
 jaw length 8mm  
 jaw width 1.2mm  
 length 2"



RS-7439

**DIETRICH**  
 micro bulldog clamp  
 curved  
 80gr pressure  
 jaw length 8mm  
 jaw width 1.2mm  
 length 2"



**RS-7440**      **JOHNS HOPKINS**  
 bulldog clamp  
 straight  
 700gr pressure  
 length 1 1/2"



**RS-7441**      **JOHNS HOPKINS**  
 bulldog clamp  
 curved  
 700gr pressure  
 length 1 1/2"



**RS-7442**      **JOHNS HOPKINS**  
 bulldog clamp  
 straight  
 800gr pressure  
 length 2"



**RS-7443**      **JOHNS HOPKINS**  
 bulldog clamp  
 curved  
 800gr pressure  
 length 2"



**RS-7444**      **JOHNS HOPKINS**  
 bulldog clamp  
 straight  
 800gr pressure  
 length 2 1/2"



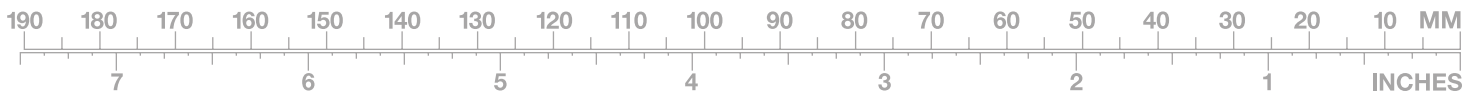
**RS-7445**      **JOHNS HOPKINS**  
 bulldog clamp  
 curved  
 800gr pressure  
 length 2 1/2"



**RS-7446**      **JOHNS HOPKINS**  
 bulldog clamp  
 straight  
 1000gr pressure  
 length 3"



**RS-7447**      **JOHNS HOPKINS**  
 bulldog clamp  
 curved  
 1000gr pressure  
 length 3"





RS-7500

**DeBAKEY**

atraumatic bulldog  
clamp straight  
400-500gr pressure  
jaw length 2cm  
overall length 7.5cm



RS-7511

**DeBAKEY**

atraumatic bulldog  
clamp curved  
400-500gr pressure  
jaw length 2cm  
overall length 7.5cm



RS-7530

**GLOVER**

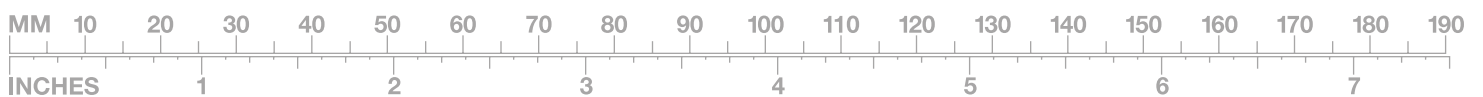
atraumatic bulldog  
clamp straight  
tension adjusting screw  
240-260gr pressure  
jaw length 2cm  
overall length 7cm



RS-7541

**GLOVER**

atraumatic bulldog clamp  
curved with tension  
adjusting screw  
240-260gr pressure  
jaw length 2cm  
overall length 7cm



RS-7760

**JONES**  
towel clamp  
cross action  
light weight  
length 2<sup>1</sup>/<sub>4</sub>"



RS-7780

**BACKHAUS**  
towel clamp

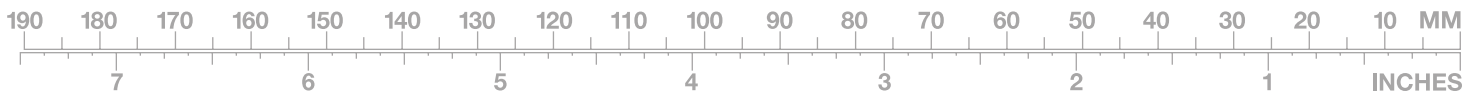
length 3<sup>1</sup>/<sub>2</sub>"

RS-7784

length 5<sup>1</sup>/<sub>4</sub>"

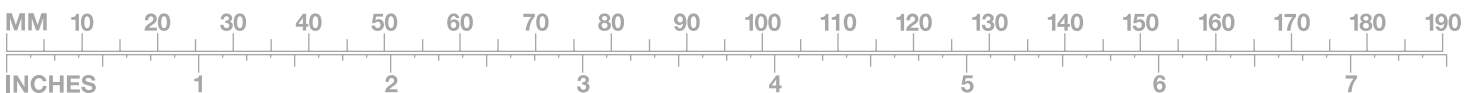


RS-7784 Shown

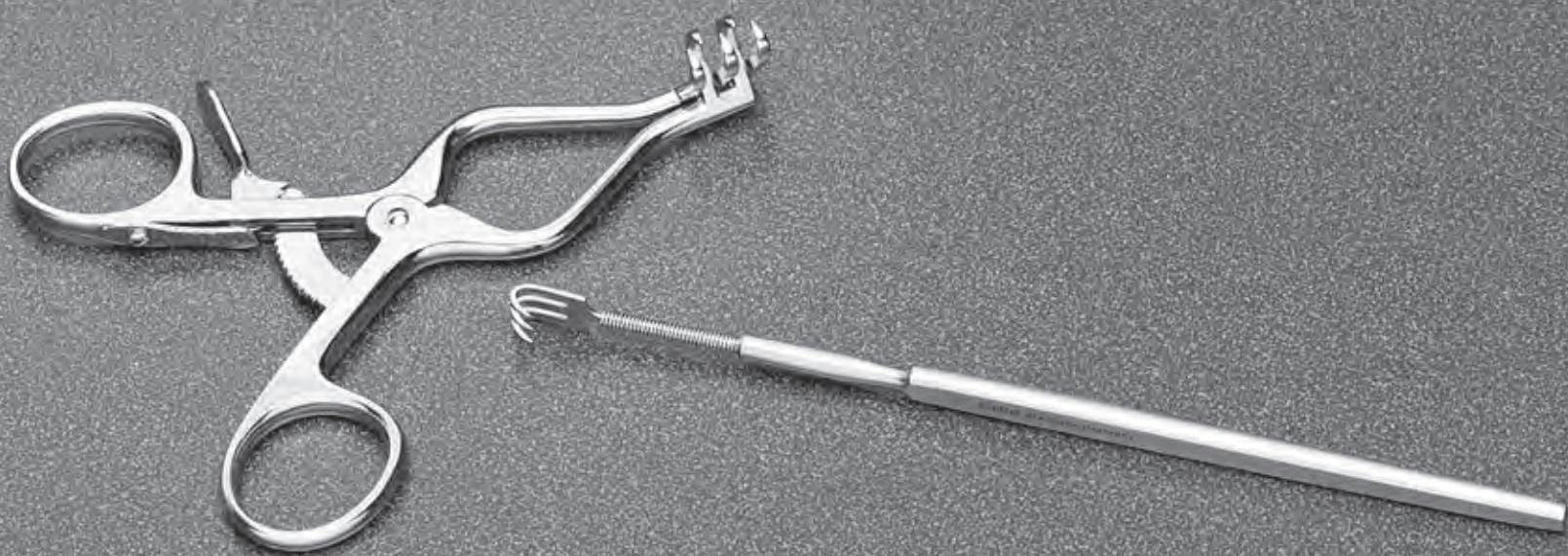


COMPARISON OF MILLIMETERS TO INCHES			
MM	INCHES	MM	INCHES
0.33	.013	6	.236
0.5	.020	6.33	.249
0.67	.026	6.5	.256
1	.039	6.67	.263
1.33	.052	7	.275
1.5	.059	7.33	.288
1.67	.066	7.5	.295
2	.079	7.67	.302
2.33	.092	8	.315
2.5	.098	8.33	.328
2.67	.105	8.5	.335
3	.118	8.67	.341
3.33	.131	9	.354
3.5	.138	9.33	.367
3.67	.144	9.5	.374
4	.157	9.67	.380
4.33	.170	10	.394
4.5	.177	10.33	.407
4.67	.184	10.67	.420
5	.197	11	.433
5.33	.210	11.33	.446
5.5	.216	11.67	.459
5.67	.223	12	.472

COMPARISON OF INCHES TO MILLIMETERS				COMPARISON OF INCHES TO CENTIMETERS		COMPARISON OF CENTIMETERS TO INCHES	
INCHES	MM	INCHES	MM	INCHES	CM	CM	INCHES
1/32	0.79	17/32	13.49	1	2.54	1	.3937
1/16	1.59	9/16	14.29	2	5.08	2	.7874
3/32	2.38	19/32	15.08	3	7.62	3	1.1811
1/8	3.18	5/8	15.88	4	10.16	4	1.5748
5/32	3.97	21/32	16.67	5	12.70	5	1.9685
3/16	4.76	11/16	17.46	6	15.24	6	2.3622
7/32	5.56	23/32	18.26	7	17.78	7	2.7559
1/4	6.35	3/4	19.05	8	20.32	8	3.1496
9/32	7.14	25/32	19.84	9	22.86	9	3.5433
5/16	7.94	13/16	20.64	10	25.40	10	3.9370
11/32	8.73	27/32	21.43	11	27.94	20	7.8740
3/8	9.53	7/8	22.22	12	30.48	30	11.8110
13/32	10.32	29/32	23.02	13	33.02	40	15.7480
7/16	11.11	15/16	23.81	14	35.56		
15/32	11.91	31/32	24.61	15	38.10		
1/2	12.07	1"	25.40				



# Retractors





RS-6504

**PERSONETT**  
mini retractor  
3x3 prongs, sharp  
depth 4mm  
spread 15.5mm  
length 1"



RS-6505

**SAUER**  
spread 17mm  
depth 4.5mm  
blade width 2.5mm  
length 1.12"



RS-6500

**AGRICOLA**  
3x3 prongs  
depth 4mm  
spread 25mm  
length 1<sup>1/2</sup>"

RS-6501

sharp  
blunt



95% of actual size

RS-6502

**GOLDSTEIN**  
3x3 prongs  
depth 4mm  
spread 19mm  
length 1"

RS-6503

sharp  
blunt



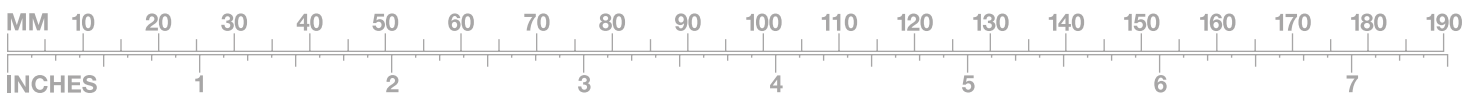
RS-6510 Shown

RS-6510

**ALM**  
blunt  
4x4 prongs  
depth 3.5mm  
spread 57mm  
length 2<sup>3/4</sup>"

RS-6514

depth 5mm  
spread 65mm  
length 4"





**CROSS ACTION RETRACTOR**

with ratchet  
depth 5 mm  
spread 25mm  
length 4"



RS-6521

angled  
4x4 blunt prongs

RS-6524

straight  
4x4 blunt prongs

RS-6521 Shown

RS-6540

**BARRAQUER**

wire blades  
depth 5 mm  
spread 20mm  
blade width 12mm  
length 1 3/4"



RS-6550

**MURDOCK**

non-magnetic, chrome  
spread 34mm  
depth 5mm  
blade width 15mm  
length 2 1/4"



RS-6560

**McKINNEY RETRACTOR**

spread 50mm  
depth 6mm  
blade width 15mm  
length 2 1/2"

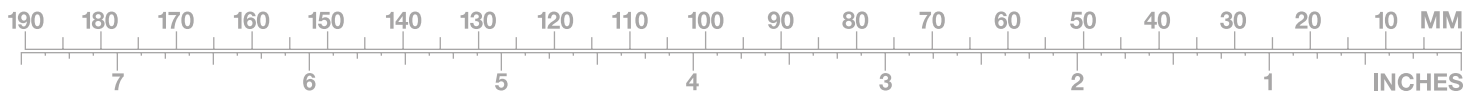


80% of actual size

RS-6561

**COOK**

non-magnetic  
spread 38mm  
depth 6mm  
blade width 11mm  
length 2"



RS-6570

**CASTROVIEJO**  
 non-magnetic  
 spread 35mm  
 blade width 15mm  
 blade depth 5mm  
 length 3<sup>3/4</sup>"



RS-6585

**DAVIS**  
 3x3 blunt prongs  
 spread 63mm  
 depth 11mm  
 length 4<sup>1/2</sup>"



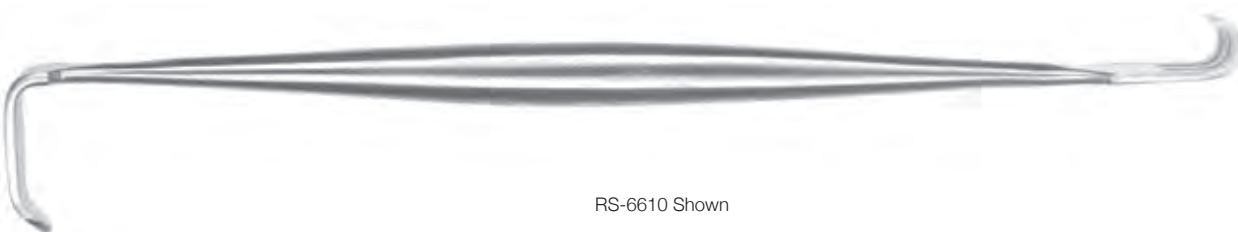
**SENN**  
 double end  
 length 6<sup>1/2</sup>"

RS-6610

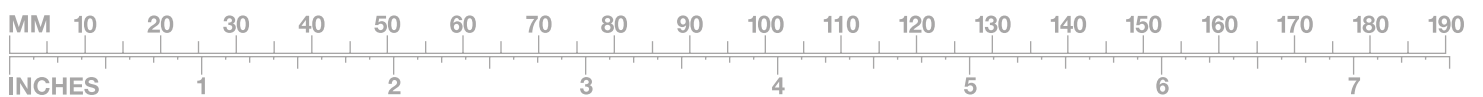
3 sharp prongs

RS-6612

3 blunt prongs



RS-6610 Shown



RS-6614

**RAGNELL**  
double end  
3mm x 8mm  
5mm x 15mm  
length 6"



RS-6628

**Rake retractor**  
rigid shaft  
length 6<sup>1/2</sup>"  
2 prongs, blunt  
blade width 7mm  
depth 7mm



RS-6630

**Rake retractor**  
rigid shaft  
length 6<sup>1/2</sup>"  
3 prongs, blunt  
blade width 8mm  
depth 5mm



RS-6156

**McGANNON**  
micro dissecting retractor  
2.5mm wide  
length 5"



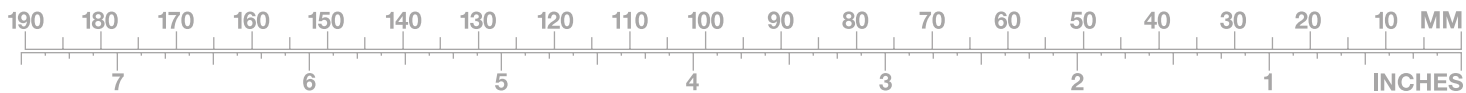
**DESMARRES**  
length 5<sup>1/2</sup>"

RS-6670

blade width 11mm

RS-6672

blade width 13mm





RS-8600 Shown

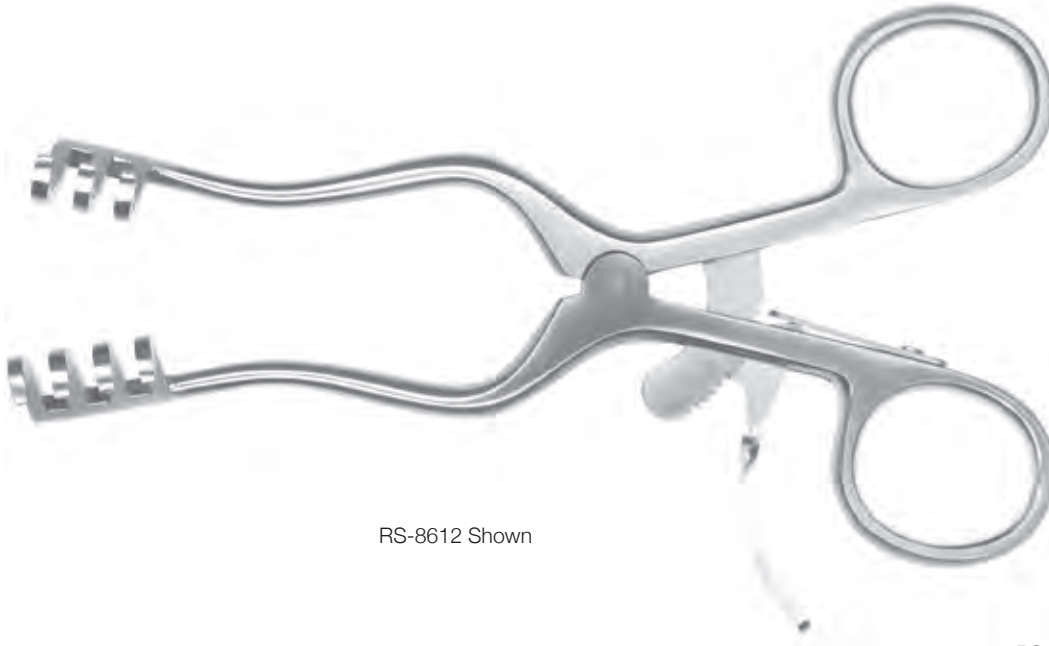
**WEITLANER**  
2 x 3 prongs  
spread 38mm  
depth 15mm  
length 4"

**RS-8600**

sharp

**RS-8602**

blunt



RS-8612 Shown

**WEITLANER**  
3 x 4 prongs, blunt

**RS-8612**

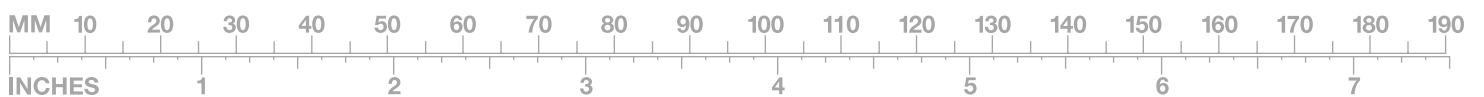
spread 44mm  
depth 15mm  
length 5<sup>1/2</sup>"

**RS-8614**

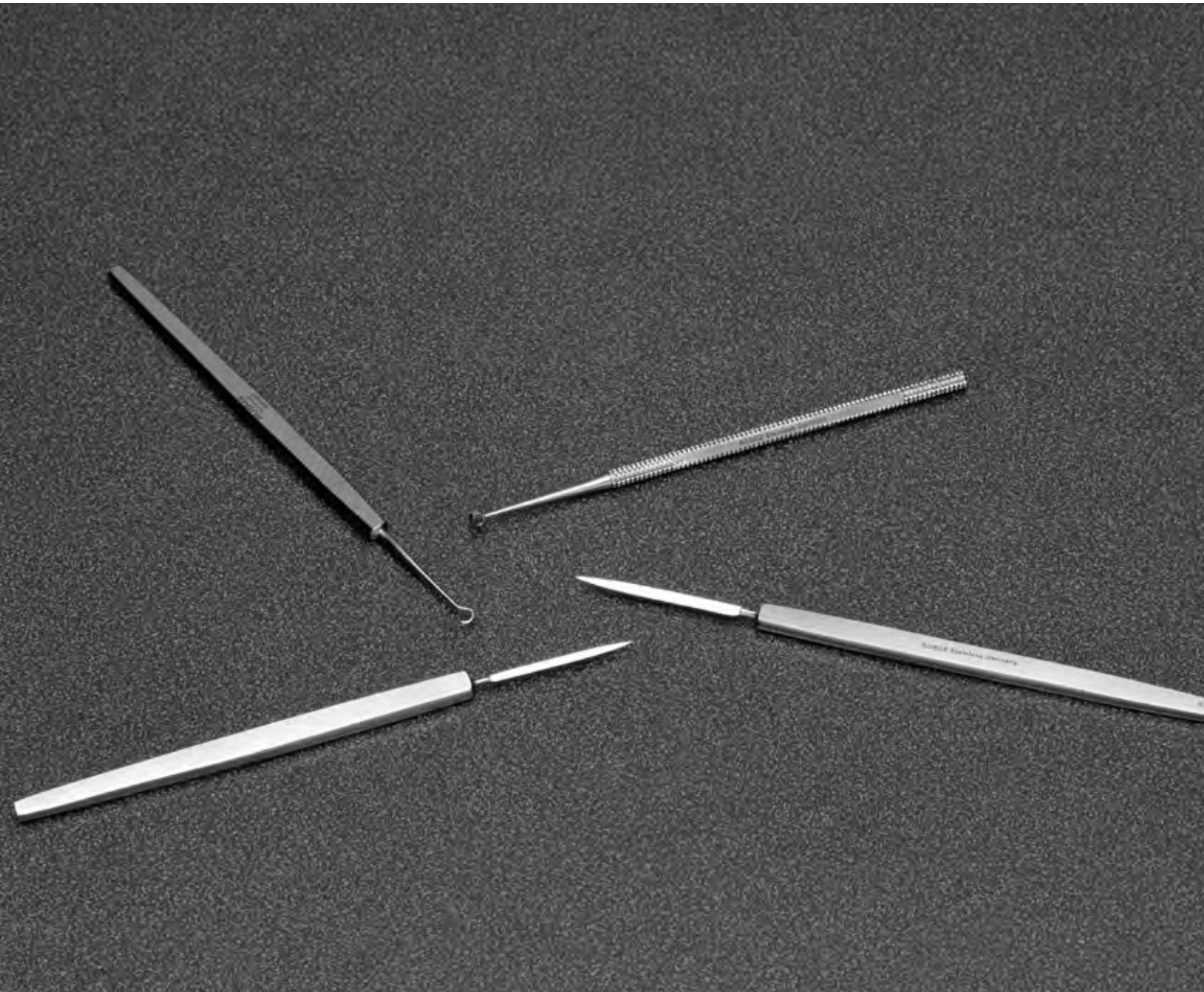
spread 88mm  
depth 17mm  
length 6<sup>1/2</sup>"

**RS-8616**

spread 120mm  
depth 19mm  
length 8"



# General Micro Dissecting Instruments



## Micro Dissecting Needle Holders



For use with tungsten and micro dissecting needles only

RS-6060

Light weight solid aluminum handle with nickel plated precision chuck. 5 1/4"



For use with tungsten and micro dissecting needles or insect pins

RS-6061

Light weight hollow stainless steel handle. 4 3/4"



For use with tungsten and micro dissecting needles or insect pins

RS-6062

Nickel plated, 4"

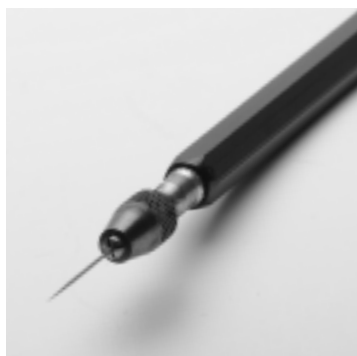


## Sharp Point Tungsten Needles

These fine needles are made of hard tungsten. Their ultra fine tips have a 1 µm diameter. They can be used for micro dissection at the finest level including the separation of cells.

The needles are 2" long for easy handling. Insert the needles deeper in the handle to gain lateral stability or leave a longer piece out to increase flexibility.

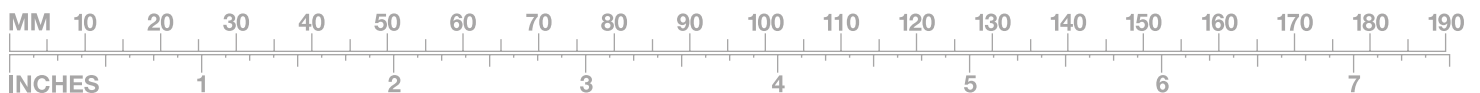
	Quantity	Rod diameter mm	Tip size µm	Length
RS-6063	10	0.125	1	2"
RS-6064	10	0.25	1	2"
RS-6065	10	0.5	1	2"



## Strong Point Micro Dissecting Needles

These micro dissection needles have strong and super fine tips with 10 µm diameter. They are suited for dissections at the microscopic scale that require increased lateral strength. Angled versions are bent at a 45 or 90 degree angle 2mm from the tip.

	Quantity	Rod diameter mm	Tip size µm	Length
RS-6066 Straight	5	0.5	10	2"
RS-6067 Angled 45 degrees	5	0.5	10	2"
RS-6068 Angled 90 degrees	5	0.5	10	2"
RS-6066-1 Straight	1	0.5	10	2"
RS-6067-1 Angled 45 degrees	1	0.5	10	2"
RS-6068-1 Angled 90 degrees	1	0.5	10	2"



**Black Enameled Insect Pins**

Pin sizes 1,2,3, and 4 are for most insects, sizes 5,6, and 7 are for large ones; and 000,00, and 0 are for small insects or other specimens.

Black enameled pins are made of spring steel with nylon heads, and two coats of black enamel for reduced glare and protection against corrosion.

	Quantity	Size	Rod diameter mm	Tip size $\mu\text{m}$	Length
RS-6081-25	100	"000"	0.25	30	38 mm
RS-6081-30	100	"00"	0.3	30	38 mm
RS-6081-35	100	"0"	0.35	30	38 mm
RS-6081-40	100	1	0.4	30	38 mm
RS-6081-45	100	2	0.45	30	38 mm
RS-6081-50	100	3	0.5	30	38 mm
RS-6081-55	100	4	0.55	30	38 mm
RS-6081-60	100	5	0.6	30	38 mm
RS-6081-65	100	6	0.65	30	38 mm
RS-6081-70	100	7	0.7	30	52 mm



**Stainless Steel Insect Pins**

Insect pins with stainless steel shafts and nylon heads are used primarily in humid, corrosive environments.

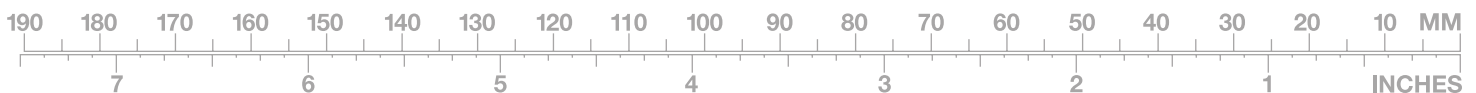
	Quantity	Size	Rod diameter mm	Tip size $\mu\text{m}$	Length
RS-6082-25	100	"000"	0.25	30	38 mm
RS-6082-30	100	"00"	0.3	30	38 mm
RS-6082-35	100	"0"	0.35	30	38 mm
RS-6082-40	100	1	0.4	30	38 mm
RS-6082-45	100	2	0.45	30	38 mm
RS-6082-50	100	3	0.5	30	38 mm
RS-6082-55	100	4	0.55	30	38 mm
RS-6082-60	100	5	0.6	30	38 mm
RS-6082-65	100	6	0.65	30	38 mm
RS-6082-70	100	7	0.7	30	52 mm



**Minutien Pins**

Short pins without heads for double mounting very small insects, or other specimens.

	Quantity	Size	Rod diameter mm	Tip size $\mu\text{m}$	Length
<i>Stainless Steel</i>					
RS-6083-10	500	0.1	0.1	12	12 mm
RS-6083-15	500	0.15	0.15	18	12 mm
RS-6083-20	500	0.2	0.2	20	12 mm
<i>Black Enameled</i>					
RS-6084-15	500	0.15	0.15	18	12 mm





This handle can be used with RS-6120 through RS-6142

RS-6100

**Micro Dissecting**  
knife handle  
straight  
length 4"



This handle can be used with RS-6120 through RS-6142

RS-6110

**Micro Dissecting**  
knife handle  
tapered  
length 4 1/2"



RS-6120

**Micro Dissecting Knife**  
1mm cutting edge  
shaft length 1 1/2"



RS-6122

**Micro Dissecting Knife**  
1.5mm cutting edge  
shaft length 1 1/2"



RS-6125

**Micro Dissecting Knife**  
spear point  
1.5mm cutting edge  
shaft length 1 1/2"



RS-6130

**Micro Dissecting Needle**  
straight, sharp  
.3mm tip  
shaft length 1 1/2"



RS-6135

**Micro Dissecting Needle**  
90° angle, sharp  
.3mm tip  
shaft length 1 1/2"



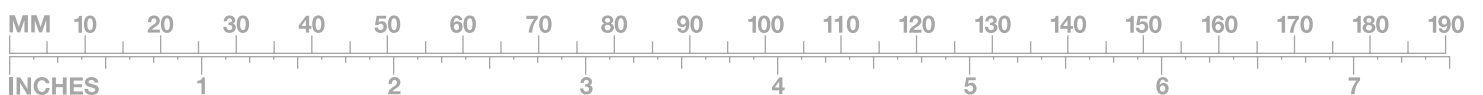
RS-6140

**Micro Dissecting Hook**  
sharp tip  
loop diameter 0.5mm  
shaft length 1 1/2"



RS-6142

**Micro Dissecting Hook**  
blunt tip  
loop diameter 0.5mm  
shaft length 1 1/2"





**Micro Probe**

6.25" length  
straight



Not Actual Size

RS-9400

0.04mm tip width

RS-9420

0.025mm tip width

**Micro Probe**

6.25" length  
25° angle



Not Actual Size

RS-9401-10

1mm tip length  
0.04mm tip width

RS-9401-06

0.6mm tip length  
0.04mm tip width

RS-9401-03

0.3mm tip length  
0.04mm tip width

**Micro Probe**

6.25" length  
45° angle



Not Actual Size

RS-9402-10

1mm tip length  
0.04mm tip width

RS-9402-06

0.6mm tip length  
0.04mm tip width

RS-9421-06

0.6mm tip length  
0.025mm tip width

RS-9402-03

0.3mm tip length  
0.04mm tip width

RS-9421-03

0.3mm tip length  
0.025mm tip width

**Micro Probe**

6.25" length  
90° angle



Not Actual Size

RS-9403-10

1mm tip length  
0.04mm tip width

RS-9403-06

0.6mm tip length  
0.04mm tip width

RS-9422-06

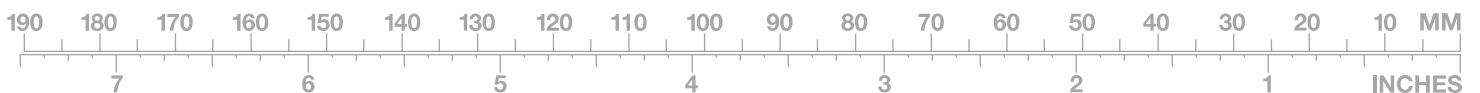
0.6mm tip length  
0.025mm tip width

RS-9403-03

0.3mm tip length  
0.04mm tip width

RS-9422-03

0.3mm tip length  
0.025mm tip width





Not Actual Size

RS-9404-10

RS-9404-05

**Micro Hook**

6.25" length  
0.04mm tip width  
1mm hook diameter  
0.5mm tip diameter



RS-6170

RS-6172

**TYRELL**

micro dissecting hook  
1mm loop diameter  
length 5"

sharp

blunt



RS-6180

RS-6182

**FRAZIER**

micro dissecting hook  
2mm loop diameter  
length 5"

sharp

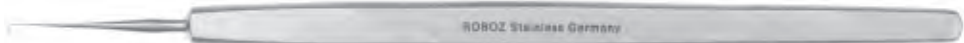
blunt



RS-6190

**Dura Twist Hook**

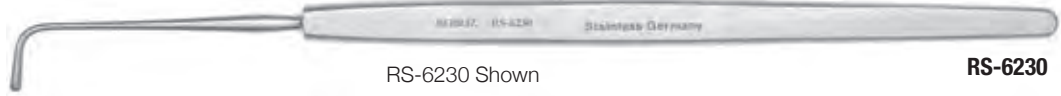
sharp points  
twist right only  
length 4<sup>1/4</sup>"



RS-6198

**NUGENT**

micro dissecting hook  
angular, sharp  
length 5"



RS-6230 Shown

RS-6230

**VON GRAEFE**

micro dissecting hook  
length 5<sup>1/2</sup>"  
hook length 8mm



Not Actual Size

37-5950

**Chung Hook,**

20mm length,  
3mm hook



RS-9410

**SCHUKNECHT**

rotating disk knife  
3mm disk diameter  
disk in line with handle



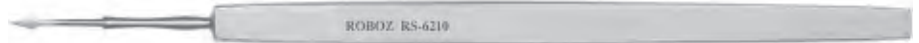
RS-9411

**SCHUKNECHT**

rotating disk knife  
3mm disk diameter  
disk perpendicular  
to handle



**RS-6210**      **BOWMAN**  
 micro dissecting knife  
 spear point  
 blade length 3mm  
 length 116mm



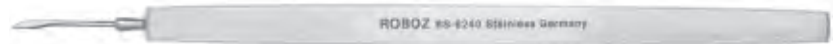
**RS-6215**      **VON GRAEFE**  
 micro dissecting knife  
 malleable shaft  
 cutting edge  
 on inside portion  
 blade length 1mm  
 overall length 124mm



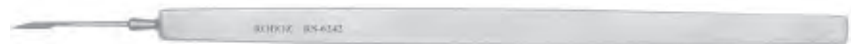
**RS-6220**      **DEAN**  
 micro dissecting knife  
 curved blade 1 x 7mm  
 length 122mm



**RS-6240**      **ZIEGLER**  
 Micro Dissecting Knife  
 no. 0, blade 3mm  
 overall length 109mm



**RS-6242**      **ZIEGLER**  
 Micro Dissecting Knife  
 no. 1, blade 5mm  
 overall length 111mm



**RS-6244**      **ZIEGLER**  
 Micro Dissecting Knife  
 no. 3, blade 7mm  
 overall length 113mm



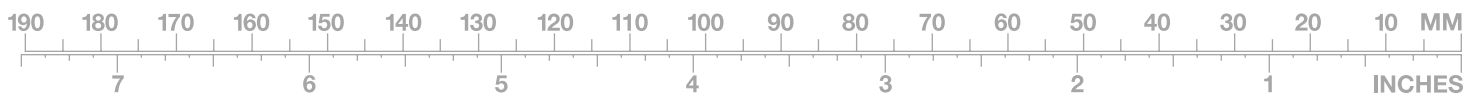
**RS-6250**      **GRAEFE**  
 Micro Dissecting Knife  
 no. 0, blade 1 x 18mm  
 overall length 113mm



**RS-6270**      **GRAEFE**  
 Micro Dissecting Knife  
 no. 1, blade 1.5 x 25mm  
 overall length 120mm



**RS-6272**      **GRAEFE**  
 Micro Dissecting Knife  
 no. 2, blade 1.7 x 27mm  
 overall length 122mm





RS-6150

**WECKER**

micro dissecting spatula  
blade 2 x 30mm  
0.3mm thick  
Sterling  
length 5"



RS-6156

**McGANNON**

micro dissecting retractor  
2.5mm wide  
length 5"



For use with IN-920 syringe

**WESCOTT**

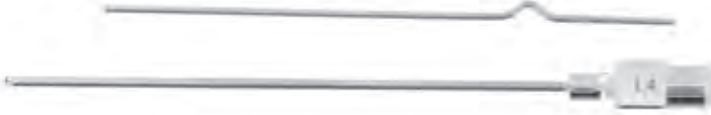
biopsy needle  
disposable  
pack of 10  
3.5" length

IN-930-20

20G

IN-930-22

22G



Not Actual Size

**Biopsy Needle**  
with stylet  
stainless steel

RS-6340-10

1.0mm x 70mm

RS-6340-14

1.4mm x 70mm



2 3 4 6 8

**KEYES**

tissue punch  
length 4"  
sizes:



Please specify size when ordering

RS-6330-2

2mm

RS-6330-3

3mm

RS-6330-4

4mm

RS-6330-6

6mm

RS-6330-8

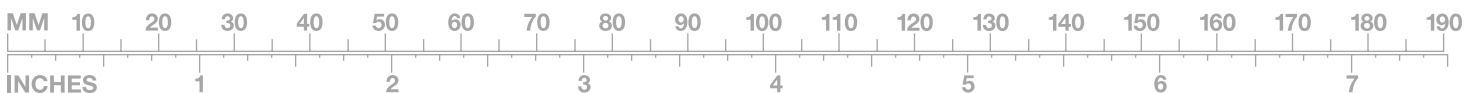
8mm



RS-6350

**HEATH**

micro dissecting curette  
0.5mm diameter  
one side sharp  
one side blunt  
length 4"



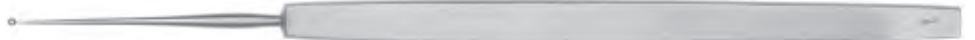
**RS-6352**      **HEATH**  
 micro dissecting curette  
 1mm diameter  
 one side sharp  
 one side blunt  
 length 4"



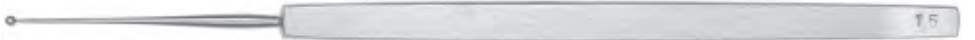
**RS-6354**      **HEATH**  
 micro dissecting curette  
 2mm diameter  
 one side sharp  
 one side blunt  
 length 4"



**RS-6380**      **MEYER-HOFFER**  
 micro dissecting curette  
 1mm cup diameter  
 length 5"



**RS-6382**      **MEYER-HOFFER**  
 micro dissecting curette  
 1.5mm cup diameter  
 length 5"



**SPRATT**  
 length 6 1/2"

**RS-9040**      oval, size 5/0  
**RS-9052**      oval, size 2/0



RS-9040 Shown

**RS-9454**      **BOWMAN**  
 double ended  
 length 5"  
 0.9mm & 1.1mm tips

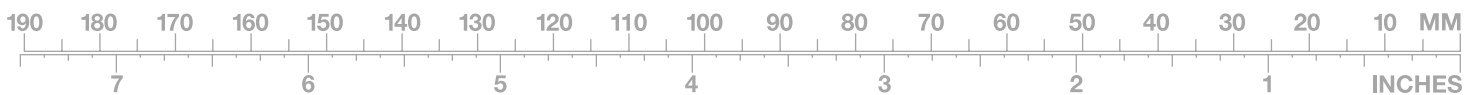


**Sterling Probe**  
 double ended, malleable  
 2mm tips



Not Actual Size

**RS-9486**      length 6"  
**RS-9490**      length 8"





Not Actual Size

RS-9522

**Sterling Probe**2mm tips  
with eye

RS-9526

length 6"

RS-9528

length 7"



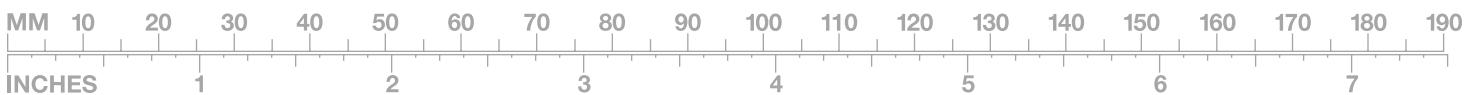
RS-9580

**Probe and Blunt**Separator  
one end semi-blunt  
one end tapered and flat  
length 6<sup>1</sup>/<sub>4</sub>"

RS-6460

**CASTROVIEJO**caliper  
20mm scale  
length 3<sup>1</sup>/<sub>4</sub>"

RS-6466

**JAMESON**caliper  
80mm/3" scale  
chrome plated  
length 3<sup>3</sup>/<sub>4</sub>"

# Scissors





RS-5600

**McPHERSON-VANNAS**

straight, sharp  
cutting edge 5mm  
tip width 0.15mm  
overall length 3"



RS-5601

**McPHERSON-VANNAS**

curved, sharp  
cutting edge 5mm  
tip width 0.15mm  
overall length 3"



RS-5602

**McPHERSON-VANNAS**

straight, sharp  
cutting edge 5mm  
tip width 0.1mm  
overall length 3"



RS-5603

**McPHERSON-VANNAS**

curved, sharp  
cutting edge 5mm  
tip width 0.1mm  
overall length 3"



RS-5606

**McPHERSON-VANNAS**

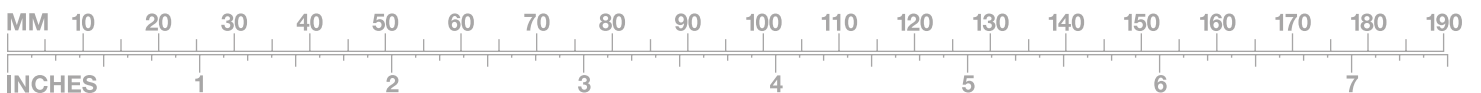
angled  
cutting edge 5mm  
tip width 0.1mm  
overall length 3"



RS-5607

**McPHERSON-VANNAS**

angled on flat  
tip width 0.1mm  
overall length 3"





**RS-5605**      **McPHERSON-VANNAS**  
 curved  
 sharp needle points  
 cutting edge 3mm  
 tip width 0.1mm  
 overall length 3"



**RS-5604**      **McPHERSON-VANNAS**  
 straight  
 sharp needle points  
 cutting edge 3mm  
 tip width 0.1mm  
 overall length 3"



**RS-5630**      **McPHERSON-VANNAS**  
 straight  
 cutting edge 6mm  
 tip width 0.15mm  
 overall length 4"



**RS-5631**      **McPHERSON-VANNAS**  
 curved  
 cutting edge 6mm  
 tip width 0.15mm  
 overall length 4"



**VANNAS**  
 straight  
 tip width 0.15mm  
 overall length 3"



**RS-5608**      cutting edge 2mm

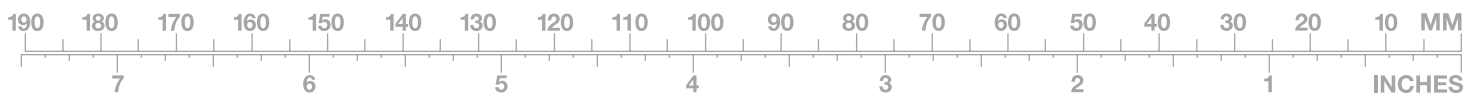
**RS-5610**      cutting edge 3mm

**VANNAS**  
 curved  
 tip width 0.15mm  
 overall length 3"



**RS-5609**      cutting edge 2mm

**RS-5611**      cutting edge 3mm





RS-5618

**VANNAS**

angled on edge  
cutting edge 3mm  
tip width 0.15mm  
overall length 3"



RS-5619

**VANNAS**

angled on flat  
cutting edge 3mm  
tip width 0.15mm  
overall length 3"



RS-5620

**VANNAS**

straight  
cutting edge 3mm  
tip width 0.1mm  
overall length 3"



RS-5621

**VANNAS**

curved  
cutting edge 3mm  
tip width 0.1mm  
overall length 3"



RS-5650

**CASTROVIEJO**

straight  
cutting edge 9mm  
tip width 0.15mm  
overall length 3 1/2"

RS-5651

standard, blunt

RS-5650SC

SURE CUT, sharp



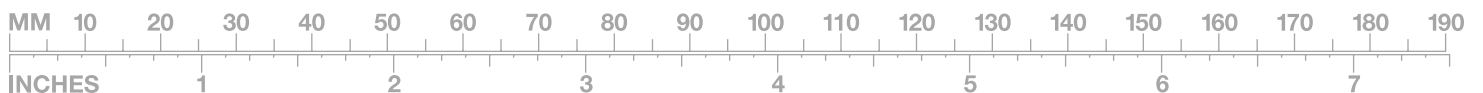
RS-5658

**CASTROVIEJO**

angular, sharp  
cutting edge 9mm  
tip width 0.15mm  
overall length 3 1/2"

RS-5658SC

SURE CUT



RS-5658BT

**CASTROVIEJO**  
 angled on edge  
 one 1.1mm ball tip  
 cutting edge 10mm  
 tip width 0.15mm  
 overall length 3<sup>1/2</sup>"



Angled blades make it easier to cut from above while keeping the blades aligned with the line of cutting. Ball-tipped point prevents damage to the underlying tissue.

RS-5668

**CASTROVIEJO**  
 angular, blunt  
 cutting edge 9mm  
 tip width 0.15mm  
 overall length 3<sup>1/2</sup>"



RS-5671

**CASTROVIEJO**  
 curved, sharp  
 cutting edge 10mm  
 tip width 0.15mm  
 overall length 3<sup>3/4</sup>"



RS-5673

**CASTROVIEJO**  
 curved, blunt  
 cutting edge 10mm  
 tip width 0.15mm  
 overall length 3<sup>1/2</sup>"



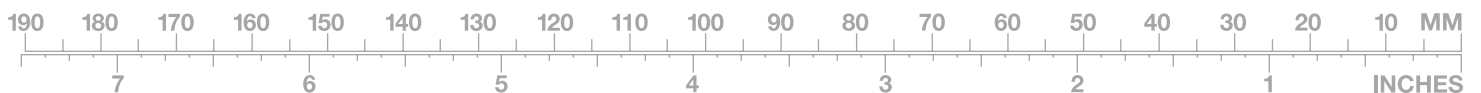
RS-5674

**NOYES**  
 13mm blades  
 curved on flat, blunt  
 tip width 0.25mm  
 overall length 4<sup>1/2</sup>"



RS-5675

**NOYES**  
 slightly curved, sharp  
 cutting edge 13mm  
 tip width 0.25mm  
 overall length 4<sup>1/2</sup>"





RS-5676

**NOYES**  
straight, sharp  
cutting edge 13mm  
overall length 4 1/2"

standard  
tip width 0.15mm

RS-5676SC

SURE CUT



RS-5677

**NOYES**  
straight, sharp-blunt  
cutting edge 13mm  
tip width 0.25mm  
overall length 4 1/2"



RS-5678

**NOYES**  
straight, blunt-blunt  
cutting edge 13mm  
tip width 0.25mm  
overall length 4 1/2"



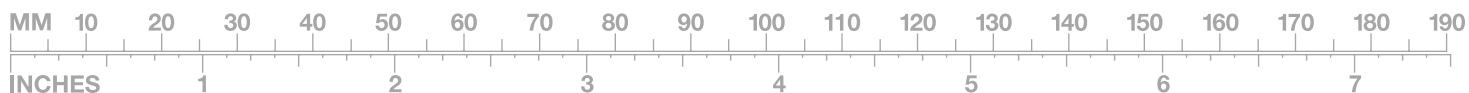
RS-5788

**NOYES**  
angled on flat  
12mm blades  
tip width 0.2mm  
length 4 3/4"



RS-5680

**Micro Dissecting**  
straight, 8mm blades  
flat handle  
tip width 0.15mm  
overall length 6"



RS-5681

**Micro Dissecting**  
 curved, 8mm blades  
 flat handle  
 tip width 0.15mm  
 overall length 6"



RS-5692

**Micro Dissecting**  
 straight, 6mm blades  
 round handle  
 tip width 0.15mm  
 overall length 6"



RS-5693

**Micro Dissecting**  
 curved, 6mm blades  
 round handle  
 tip width 0.15mm  
 overall length 6"



RS-5802

**DeWECKER**  
 sharp-sharp  
 7mm blades  
 tip width 0.2mm  
 length 4<sup>1/4</sup>"



**Micro-Mini Pencil Handle Scissors**

cutting edge 2.5mm  
 tip width 0.15mm  
 overall length 6"

RS-5805

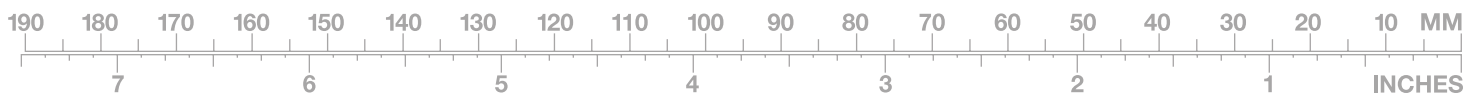
vertical cutting

RS-5806

horizontal cutting

RS-5807

angled blades





RS-5840 Shown

**BONN**

15mm blades  
length 3<sup>1</sup>/<sub>2</sub>"

- RS-5840** straight, sharp
- RS-5840SC** SURE CUT
- RS-5842** tungsten carbide
- RS-5842SC** tungsten carbide, SURE CUT
- RS-5843** ceramic coated, tungsten carbide, SURE CUT
- RS-5841** curved, sharp



RS-5850 Shown

**Micro Dissecting**

14mm blades  
flat shanks & large rings  
length 3<sup>3</sup>/<sub>4</sub>"

- RS-5850** straight, sharp
- RS-5851** curved, sharp

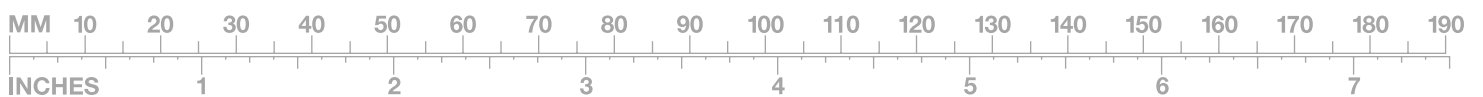


RS-5852 Shown

**Micro Dissecting**

23mm blades  
flat shanks & large rings  
length 4"

- RS-5852** straight, sharp
- RS-5853** curved, sharp



RS-5859

**WILMER**

angled on flat  
sharp  
blade length 15mm  
length 4"



RS-5865

**Micro Dissecting**

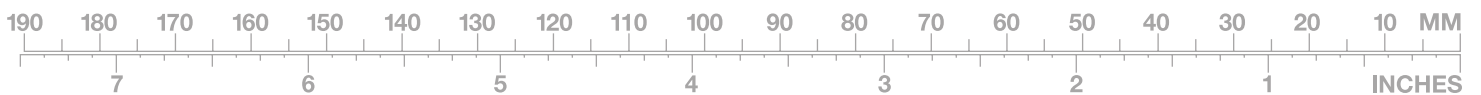
curved  
flat shanks  
large finger rings  
blade length 19mm  
length 4"



RS-5869

**BIRO**

angled on flat  
sharp outside edges  
blade length 17mm  
length 4"





RS-5871

**GRADLE**

slightly curved  
sharp points  
blade length 12mm  
length 4"



RS-5880 Shown

RS-5880

**Micro Dissecting**

extra fine  
very sharp points  
0.4mm comb. tip width  
20mm blades  
length 3<sup>1/2</sup>"

RS-5881

straight

curved



RS-5882 Shown

RS-5882

**Micro Dissecting**

length 4"  
straight, sharp  
blade length 24mm

RS-5883

curved, sharp  
blade length 24mm





**Micro Dissecting**  
blade length 23mm  
length 3<sup>1</sup>/<sub>2</sub>"

- RS-5910 straight, sharp
- RS-5910SC SURE CUT
- RS-5906 tungsten carbide
- RS-5906SC tungsten carbide, SURE CUT
- RS-5907 ceramic coated, tungsten carbide, SURE CUT
- RS-5911 curved, sharp
- RS-5911SC SURE CUT
- RS-5908 tungsten carbide
- RS-5908SC tungsten carbide, SURE CUT
- RS-5909 ceramic coated, tungsten carbide, SURE CUT



RS-5910 Shown

**Micro Dissecting**  
straight, sharp  
blade length 24mm  
length 4<sup>1</sup>/<sub>2</sub>"

- RS-5912 standard
- RS-5912L left-handed version
- RS-5912SC SURE CUT
- RS-5914 tungsten carbide
- RS-5914SC tungsten carbide, SURE CUT
- RS-5916 ceramic coated, tungsten carbide, SURE CUT



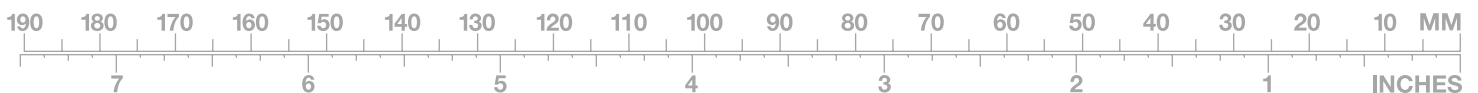
RS-5912 Shown

**Micro Dissecting**  
curved, sharp  
blade length 24mm  
length 4<sup>1</sup>/<sub>2</sub>"

- RS-5913 standard
- RS-5913L left-handed version
- RS-5913SC SURE CUT
- RS-5915 tungsten carbide blades
- RS-5915SC SURE CUT, tungsten carbide blades
- RS-5917 ceramic coated, tungsten carbide, SURE CUT



RS-5913 Shown





RS-5918

**Micro Dissecting**  
 angled, sharp  
 blade length 25mm  
 length 4<sup>1/2</sup>"



RS-5921

**Micro Dissecting**  
 curved on side, sharp  
 blade length 22mm  
 length 4<sup>1/2</sup>"



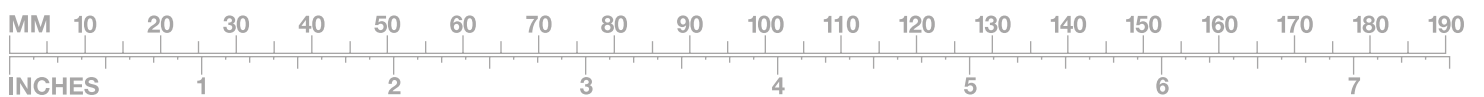
RS-5925

**LA GRANGE**  
 double curve  
 sharp serrated  
 blade length 18mm  
 length 4<sup>1/4</sup>"



RS-5928

**OBRIEN**  
 angular  
 blade length 14mm  
 length 3<sup>3/4</sup>"



RS-5930

**McGUIRE**

curved on flat  
blade length 15mm  
length 4"



RS-5940

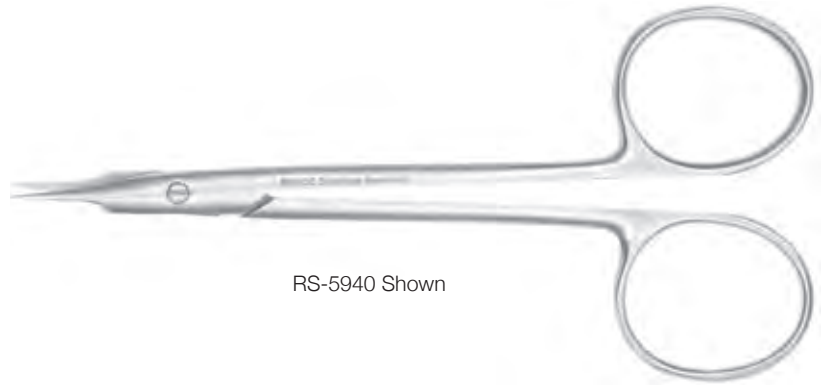
**STEVENS**

blade length 19mm  
length 4<sup>1</sup>/<sub>4</sub>"

straight, sharp

RS-5941

curved, sharp



RS-5940 Shown

RS-5942

**STEVENS**

blade length 19mm  
length 4<sup>1</sup>/<sub>4</sub>"

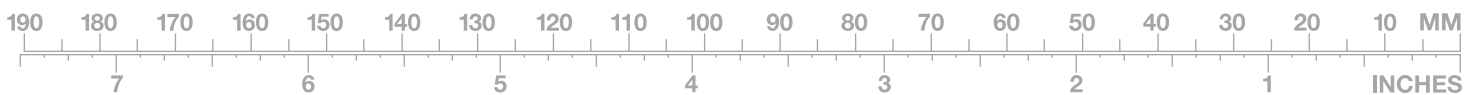
straight, blunt

RS-5943

curved, blunt



RS-5942 Shown



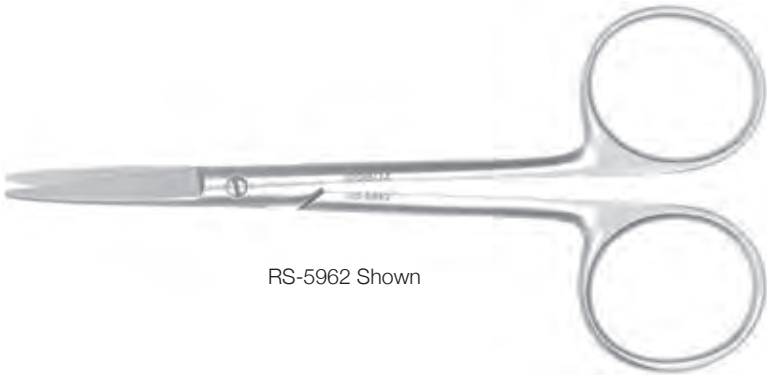


RS-5960 Shown

**RS-5960****KNAPP**blade length 27mm  
length 4"**RS-5963**

straight, sharp-blunt

curved, sharp-blunt



RS-5962 Shown

**RS-5962****KNAPP**blade length 27mm  
length 4"**RS-5965**

straight, blunt-blunt

curved, blunt-blunt

**RS-5980****Micro Dissecting**blade length 22mm  
length 4"**RS-5981**

straight, blunt

curved, blunt



**Micro Dissecting**  
blade length 25mm  
length 4<sup>1/2</sup>"

- RS-5982 straight, blunt, standard
- RS-5982L straight, left-handed version
- RS-5984 straight, blunt, tungsten carbide blades
- RS-5983 curved, blunt, standard
- RS-5983L curved, left-handed version
- RS-5985 curved, blunt, tungsten carbide blades



RS-5983 Shown

- RS-5990 **Micro Dissecting**  
blade length 26mm  
length 4"  
straight, probe points



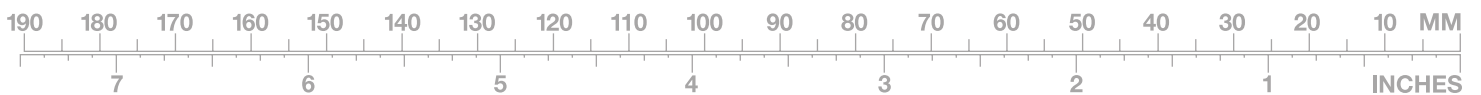
RS-5990 Shown

**Artery Scissors**  
one sharp tip  
one ball-point tip

- RS-5991 20mm blade  
length 3<sup>1/2</sup>"
- RS-5992 30mm blade  
length 4<sup>3/4</sup>"



RS-5991 Shown





RS-5998

**Micro Dissecting**  
angled  
probe points  
blade length 24mm  
length 4<sup>1/2</sup>"



RS-8468

**BEEBEE**  
bone shears  
strong blades  
blade length 18mm  
length 4"



**METZENBAUM**  
length 5"

RS-6010

straight, blunt  
blade length 25mm

RS-6010SC

**SURE CUT**  
straight, blunt  
blade length 25mm

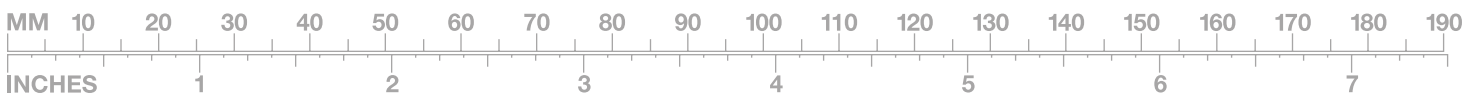
RS-6013

curved, blunt  
blade length 27mm

RS-6013SC

**SURE CUT**  
curved, blunt  
blade length 27mm

RS-6013 Shown



RS-6015

**RAGNELL**

curved  
slender blunt points  
blade length 27mm  
length 5"



RS-6031

**Micro Dissecting**

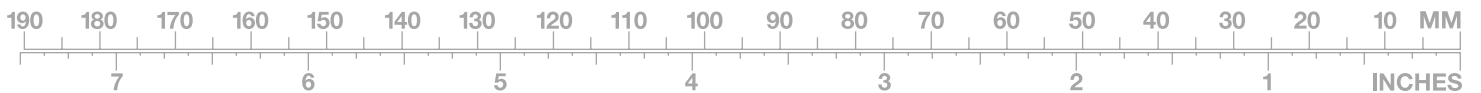
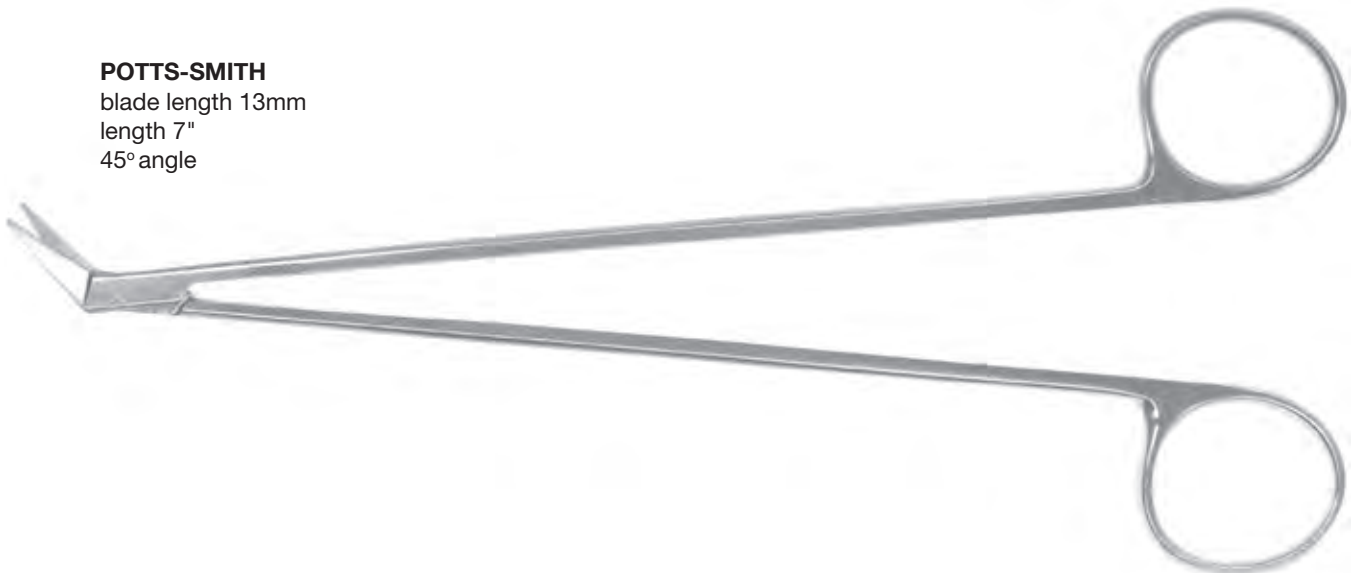
blade length 40mm  
length 5"  
light curve, blunt



RS-6043

**POTTS-SMITH**

blade length 13mm  
length 7"  
45° angle



**KELLY**

blade length 29mm  
length 6<sup>1</sup>/<sub>4</sub>"

**RS-6050**

straight, sharp

**RS-6051**

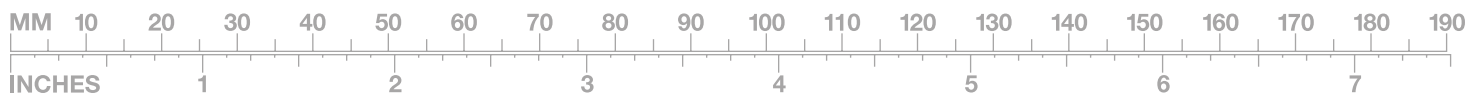
curved, sharp



RS-6050 Shown

**RS-6058****KELLY**

angled, sharp  
blade length 29mm  
length 6<sup>1</sup>/<sub>4</sub>"





**Light Operating**  
blade length 30mm  
length 4<sup>3</sup>/<sub>4</sub>"

- RS-6700 straight, sharp-blunt
- RS-6706 curved, sharp-blunt



RS-6700 Shown

**Light Operating**  
blade length 30mm  
length 4<sup>3</sup>/<sub>4</sub>"

- RS-6702 straight, sharp-sharp
- RS-6703 curved, sharp-sharp

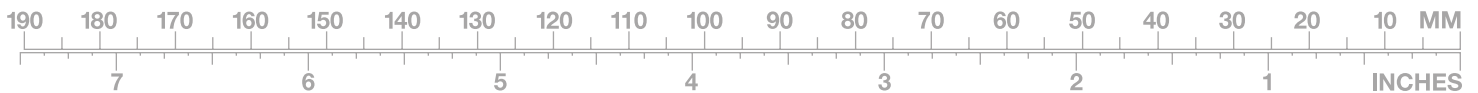


RS-6702 Shown

- RS-6705 **Light Operating**  
curved, blunt  
blade length 30mm  
length 4<sup>3</sup>/<sub>4</sub>"



- RS-6708 **Light Operating**  
angled, sharp  
blade length 30mm  
length 4<sup>3</sup>/<sub>4</sub>"



**BROPHY**

blade length 40mm  
length 5<sup>1/2"</sup>

**RS-6730**

straight, sharp

**RS-6731**

curved, sharp



RS-6730 Shown

**Light Operating**

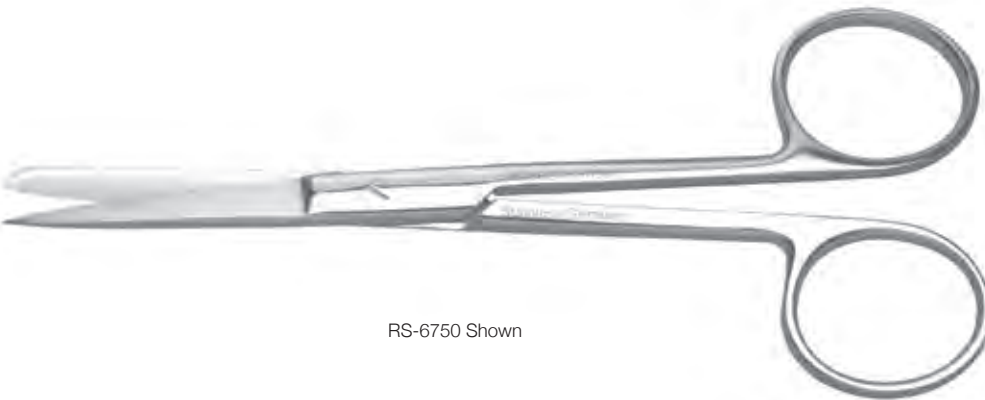
blade length 40mm  
length 5"

**RS-6750**

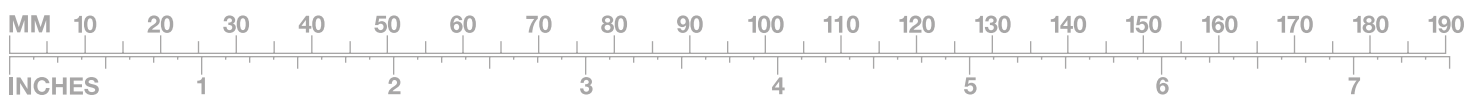
straight, sharp-blunt

**RS-6751**

curved, sharp-blunt



RS-6750 Shown



**Light Operating**  
blade length 40mm  
length 5"

- RS-6752 straight, sharp-sharp
- RS-6753 curved, sharp-sharp



RS-6752 Shown

**Light Operating**  
blade length 40mm  
length 5"

- RS-6754 straight, blunt-blunt
- RS-6755 curved, blunt-blunt



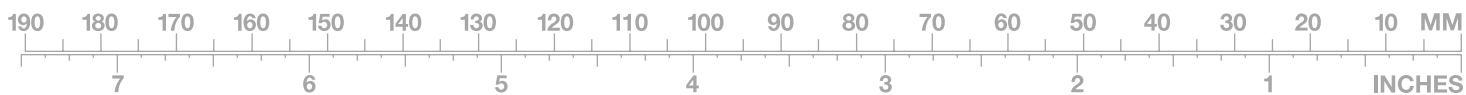
RS-6754 Shown

**DEAVER**  
blade length 43mm  
length 5 1/2"

- RS-6760 straight, sharp-blunt
- RS-6761 curved, sharp-blunt



RS-6760 Shown



**DEAVER**

blade length 43mm  
length 5<sup>1</sup>/<sub>2</sub>"

**RS-6762**

straight, sharp-sharp

**RS-6763**

curved, sharp-sharp



RS-6762 Shown

**RS-6780**

**PERMA-SET**

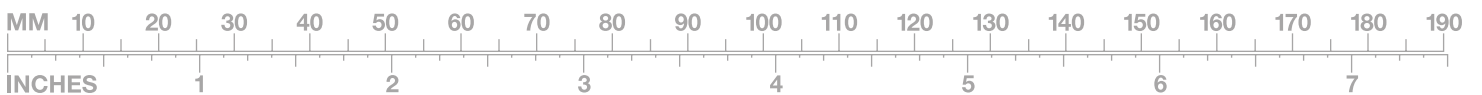
straight, sharp-blunt  
blade length 45mm  
length 5<sup>1</sup>/<sub>2</sub>"



**RS-6782**

**PERMA-SET**

straight, sharp-sharp  
blade length 45mm  
length 5<sup>1</sup>/<sub>2</sub>"

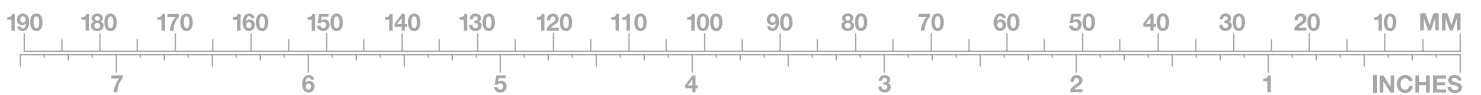


**Operating**  
sharp-blunt

- RS-6800 straight, length 4<sup>1</sup>/<sub>2</sub>"
- RS-6806 straight, length 5"
- RS-6812 straight, length 5<sup>1</sup>/<sub>2</sub>"
- RS-6812SC SURE CUT, straight length 5<sup>1</sup>/<sub>2</sub>"
- RS-6818 straight, length 6"
- RS-6824 straight, length 6<sup>1</sup>/<sub>2</sub>"
- RS-6830 straight, length 7<sup>1</sup>/<sub>2</sub>"
- RS-6832 straight, tungsten carbide, length 5<sup>1</sup>/<sub>2</sub>"
- RS-6837 curved, length 4<sup>1</sup>/<sub>2</sub>"
- RS-6838 curved, length 5"
- RS-6843 curved, length 5<sup>1</sup>/<sub>2</sub>"
- RS-6843SC SURE CUT, curved length 5<sup>1</sup>/<sub>2</sub>"
- RS-6844 curved, length
- RS-6849 curved, length
- RS-6854 curved, length



RS-6812 Shown

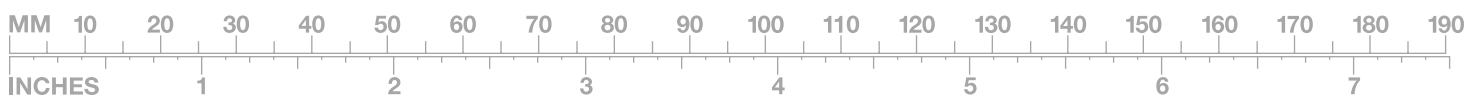


**Operating**  
sharp-sharp

<b>RS-6802</b>	straight, length 4 <sup>1</sup> / <sub>2</sub> "
<b>RS-6808</b>	straight, length 5"
<b>RS-6814</b>	straight, length 5 <sup>1</sup> / <sub>2</sub> "
<b>RS-6814SC</b>	straight, SURE CUT, length 5 <sup>1</sup> / <sub>2</sub> "
<b>RS-6820</b>	straight, length 6"
<b>RS-6826</b>	straight, length 6 <sup>1</sup> / <sub>2</sub> "
<b>RS-6834</b>	straight, tungsten carbide length 5 <sup>1</sup> / <sub>2</sub> "
<b>RS-6855</b>	straight, length 7 <sup>1</sup> / <sub>2</sub> "
<b>RS-6839</b>	curved, length 4 <sup>1</sup> / <sub>2</sub> "
<b>RS-6840</b>	curved, length 5"
<b>RS-6845</b>	curved, length 5 <sup>1</sup> / <sub>2</sub> "
<b>RS-6845SC</b>	curved, SURE CUT, length 5 <sup>1</sup> / <sub>2</sub> "
<b>RS-6835</b>	curved, tungsten carbide, length 5 <sup>1</sup> / <sub>2</sub> "
<b>RS-6846</b>	curved, length 6"
<b>RS-6851</b>	curved, length 6 <sup>1</sup> / <sub>2</sub> "
<b>RS-6856</b>	curved, length 7 <sup>1</sup> / <sub>2</sub> "



RS-6814 Shown

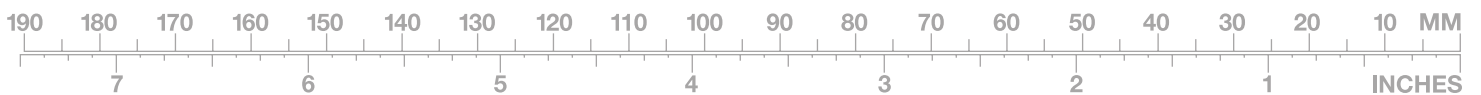


**Operating**  
blunt-blunt

- RS-6804 straight, length 4<sup>1</sup>/<sub>2</sub>"
- RS-6810 straight, length 5"
- RS-6816 straight, length 5<sup>1</sup>/<sub>2</sub>"
- RS-6822 straight, length 6"
- RS-6828 straight, length 6<sup>1</sup>/<sub>2</sub>"
- RS-6857 straight, length 7<sup>1</sup>/<sub>2</sub>"
- RS-6841 curved, length 4<sup>1</sup>/<sub>2</sub>"
- RS-6842 curved, length 5"
- RS-6847 curved, length 5<sup>1</sup>/<sub>2</sub>"
- RS-6848 curved, length 6"
- RS-6853 curved, length 6<sup>1</sup>/<sub>2</sub>"
- RS-6858 curved, length 7<sup>1</sup>/<sub>2</sub>"



RS-6816 Shown

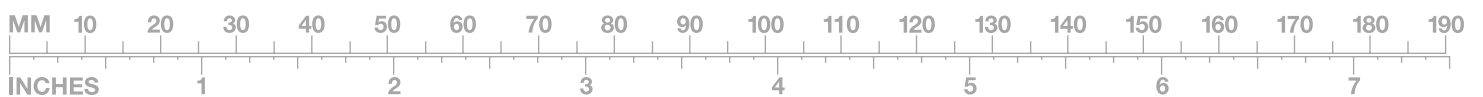


**MAYO**  
straight

<b>RS-6870</b>	blade length 43mm length 5 <sup>1</sup> / <sub>2</sub> "
<b>RS-6870SC</b>	SURE CUT blade length 43mm length 5 <sup>1</sup> / <sub>2</sub> "
<b>RS-6872</b>	blade length 53mm length 6 <sup>3</sup> / <sub>4</sub> "
<b>RS-6872L</b>	left-handed version
<b>RS-6872SC</b>	SURE CUT blade length 53mm length 6 <sup>3</sup> / <sub>4</sub> "
<b>RS-6874SC</b>	SURE CUT blade length 56mm length 9"
<b>RS-6880</b>	tungsten carbide blades blade length 43mm length 5 <sup>1</sup> / <sub>2</sub> "
<b>RS-6882</b>	tungsten carbide blades blade length 53mm length 6 <sup>3</sup> / <sub>4</sub> "



RS-6870 Shown





**MAYO**  
curved

- RS-6871** blade length 43mm  
length 5<sup>1/2</sup>"
- RS-6871SC** SURE CUT  
blade length 43mm  
length 5<sup>1/2</sup>"
- RS-6873** blade length 53mm  
length 6<sup>3/4</sup>"
- RS-6873SC** SURE CUT  
blade length 53mm  
length 6<sup>3/4</sup>"
- RS-6875SC** SURE CUT  
blade length 63mm  
length 9"
- RS-6881** tungsten carbide  
blades  
blade length 43mm  
length 5<sup>1/2</sup>"
- RS-6883** tungsten carbide  
blades  
blade length 53mm  
length 6<sup>3/4</sup>"

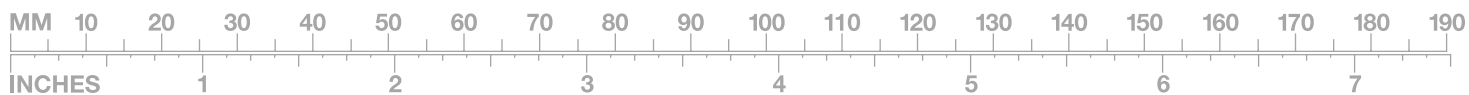


RS-6873 Shown



**MAYO-STILLE**  
rounded blades**RS-6890** straight  
blade length 42mm  
length 5<sup>1/2</sup>"**RS-6892** straight  
blade length 49mm  
length 6<sup>3/4</sup>"**RS-6891** curved  
blade length 42mm  
length 5<sup>1/2</sup>"**RS-6893** curved  
blade length 49mm  
length 6<sup>3/4</sup>"

RS-6890 Shown



**MAYO-NOBLE**  
 blade length 48mm  
 length 6<sup>1/2</sup>"

- RS-6920 straight
- RS-6921 curved



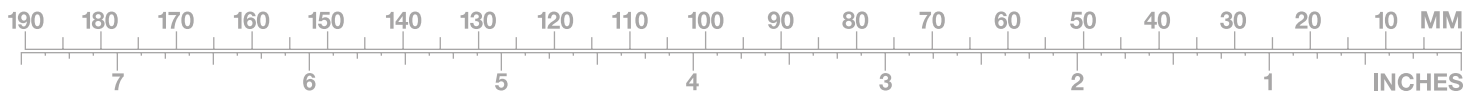
RS-6920 Shown

**DOYEN**  
 abdominal  
 blade length 67mm  
 length 7"

- RS-6930 straight
- RS-6931 curved



RS-6930 Shown



**Veterinary**  
 heavy pattern  
 sharp-blunt, serrated  
 blade length 57mm  
 length 6<sup>1/2</sup>"

- RS-6940**      straight
- RS-6941**      curved



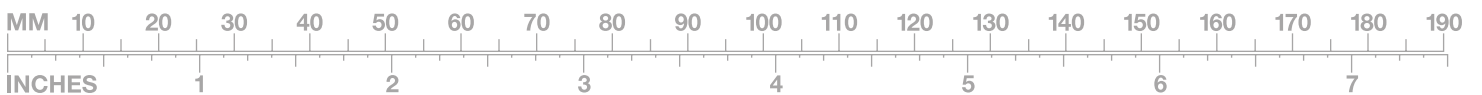
RS-6940 Shown

**Veterinary**  
 heavy pattern  
 blunt-blunt, serrated  
 blade length 57mm  
 length 6<sup>1/2</sup>"

- RS-6942**      straight
- RS-6943**      curved

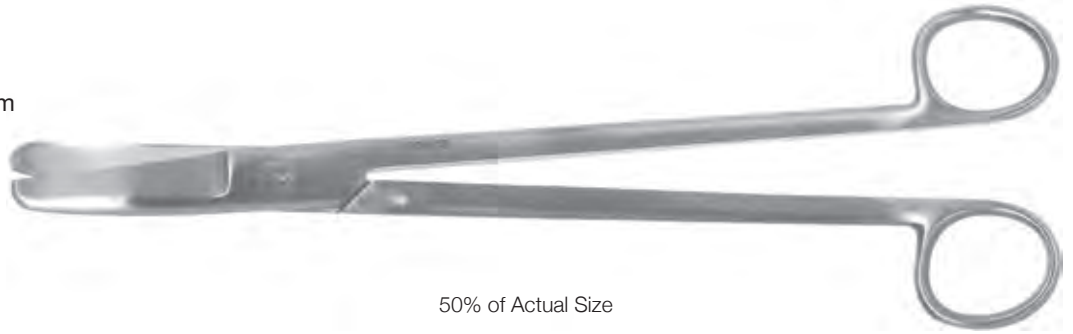


RS-6942 Shown



RS-6947

**DuBOIS**  
 decapitation  
 curved, serrated  
 blade length 57mm  
 length 10<sup>1/2</sup>"



50% of Actual Size

**METZENBAUM**  
 straight

RS-6950

blade length 39mm  
 length 5<sup>3/4</sup>" (Lahey)

RS-6950SC

blade length 39mm  
 length 5<sup>3/4</sup>" (Lahey), SURE CUT

RS-6964

blade length 39mm  
 length 5<sup>3/4</sup>" (Lahey), tungsten carbide

RS-6952

blade length 35mm  
 length 7" (Lahey)

RS-6952L

left-handed version

RS-6952SC

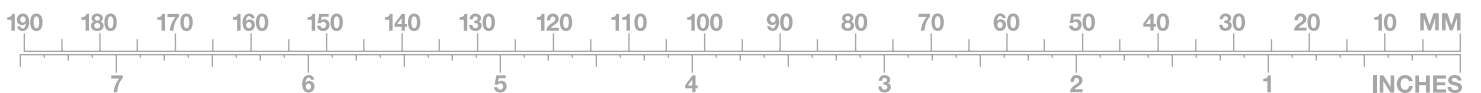
blade length 35mm  
 length 7" (Lahey), SURE CUT

RS-6966

blade length 35mm  
 length 7" (Lahey), tungsten carbide



RS-6950 Shown





RS-6960 Shown

**METZENBAUM**  
extra delicate  
straight  
blade length 39mm

**RS-6960**

length 5<sup>3</sup>/<sub>4</sub>"

**RS-6961**

length 5<sup>3</sup>/<sub>4</sub>"  
tungsten carbide

**RS-6962**

length 7"

**RS-6963**

length 7"  
tungsten carbide



RS-6959 Shown

**METZENBAUM**  
extra delicate  
curved  
blade length 39mm

**RS-6959**

length 5<sup>3</sup>/<sub>4</sub>"

**RS-6967**

length 5<sup>3</sup>/<sub>4</sub>"  
tungsten carbide  
blades

**RS-6957**

length 7"

**RS-6956**

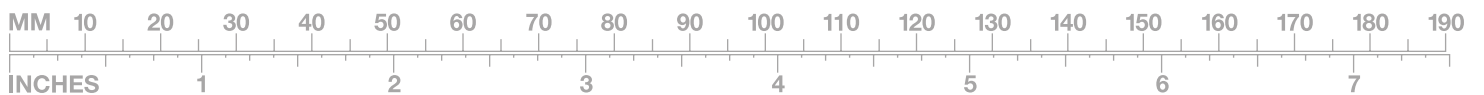
tungsten carbide  
blades  
length 7"

**RS-6954SC**

SURE CUT  
length 7"

**RS-6955SC**

SURE CUT  
tungsten carbide  
blades  
length 7"

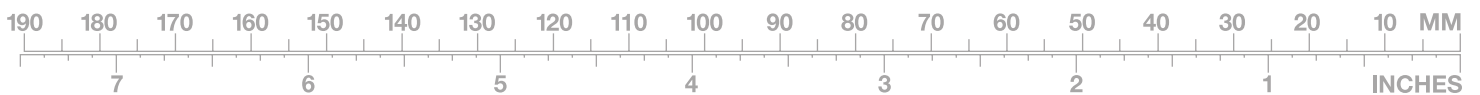


**METZENBAUM**  
curved

- RS-6951** blade length 39mm  
length 5<sup>3/4</sup>" (Lahey)
- RS-6951SC** SURE CUT  
blade length 39mm  
length 5<sup>3/4</sup>" (Lahey)
- RS-6958** tungsten carbide blades  
blade length 39mm  
length 5<sup>3/4</sup>" (Lahey)
- RS-6953** blade length 35mm  
length 7" (Lahey)
- RS-6953L** blade length 35mm  
length 7" (Lahey)  
Left Hand Version
- RS-6953SC** SURE CUT  
blade length 35mm  
length 7" (Lahey)
- RS-6955** length 7"  
tungsten carbide blades
- RS-6965SC** length 7"  
tungsten carbide blades  
SURE CUT
- RS-6973** blade length 49mm  
length 9" (Nelson)
- RS-6974** tungsten carbide blades  
blade length 49mm  
length 9" (Nelson)



RS-6951 Shown



**KAHN**  
blade length 32mm

**RS-7010**

straight  
length 5<sup>3</sup>/<sub>4</sub>"

**RS-7011**

curved  
length 5<sup>3</sup>/<sub>4</sub>"



RS-7010 Shown

**SIMS**  
blade length 48mm  
length 8"

**RS-7030**

straight, sharp-sharp

**RS-7031**

curved, sharp-sharp



RS-7030 Shown  
75% of Actual Size





RS-7041

**DEAN**

blades angled on flat  
one serrated blade  
slightly curved handles  
blade length 21mm  
length 6<sup>3</sup>/<sub>4</sub>"



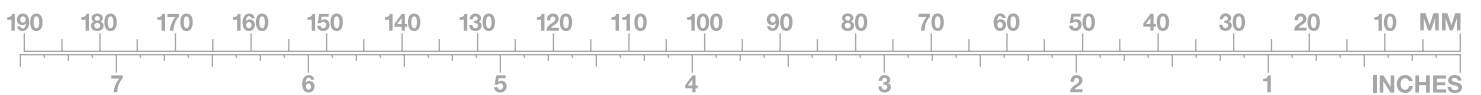
RS-7045

**REYNOLDS**

curved  
tenotomy tips  
blade length 35mm  
length 6"

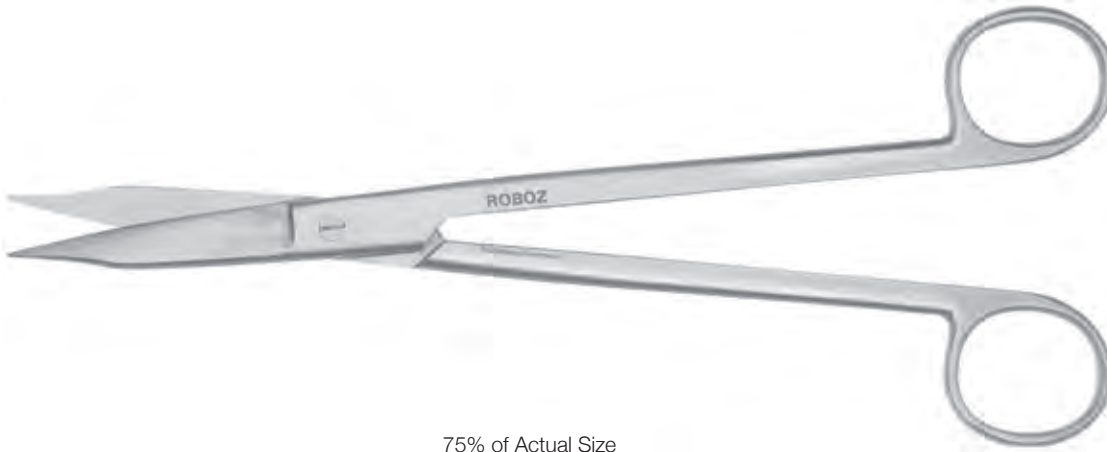


RS-7045 Shown



RS-7047

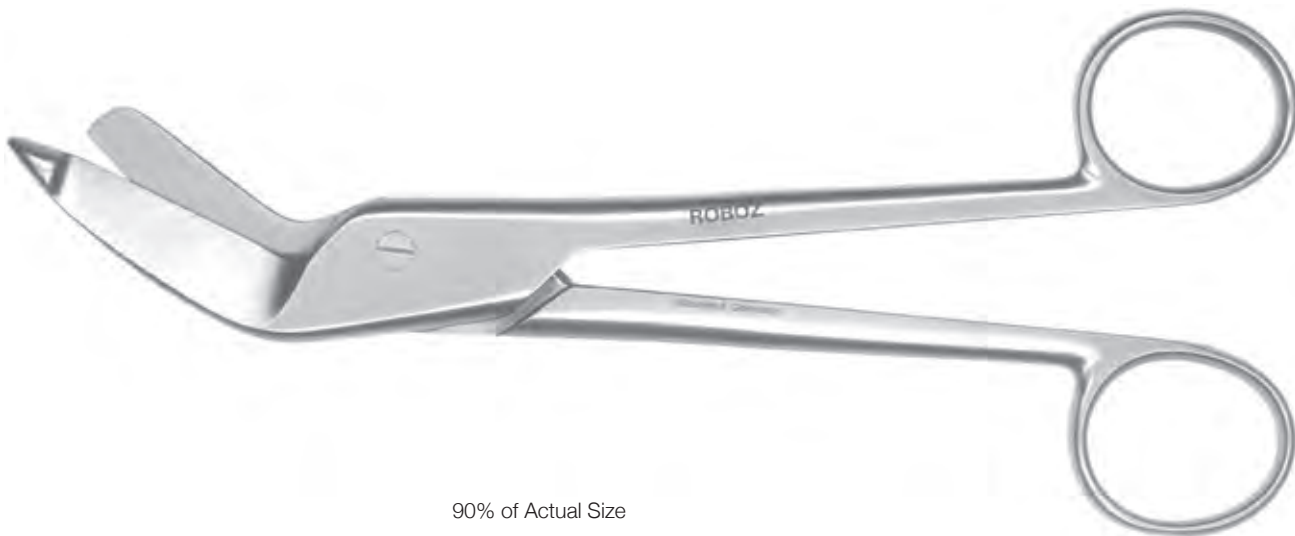
**MARTIN**  
cartilage  
serrated  
blade length 48mm  
length 7<sup>3</sup>/<sub>4</sub>"



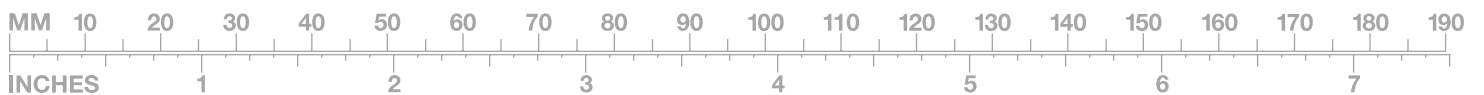
75% of Actual Size

RS-7055

**HERCULES**  
heavy duty  
serrated  
length 7<sup>1</sup>/<sub>2</sub>"



90% of Actual Size



RS-7060

**Enterotomy**  
hook blade  
length 8<sup>1</sup>/<sub>2</sub>"



75% of Actual Size

RS-7084

**LISTER**  
bandage

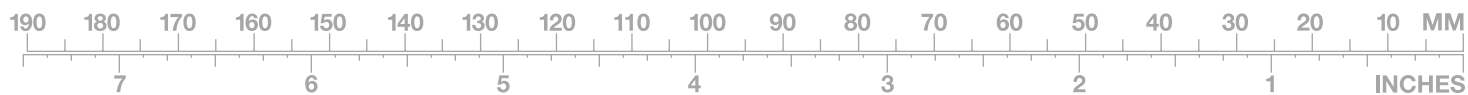
length 4<sup>1</sup>/<sub>2</sub>"

RS-7085

length 5<sup>1</sup>/<sub>2</sub>"



RS-7084 Shown



RS-7097

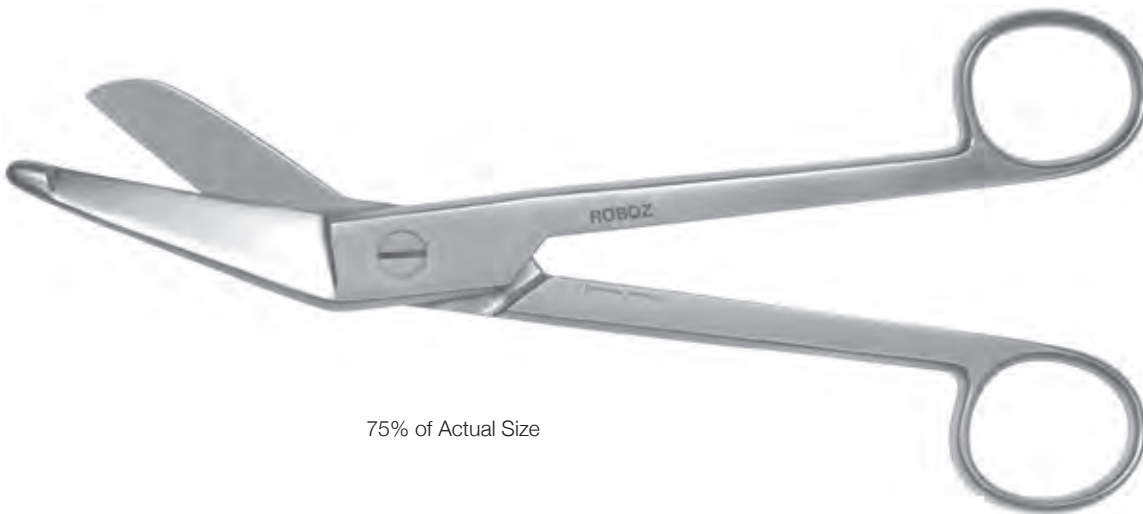
**Extra Heavy Duty**  
hardened steel  
serrated  
length 7<sup>3/4</sup>"



90% of Actual Size

RS-7098

**ESMARCH**  
bandage  
and plaster shears  
length 8"



75% of Actual Size





RS-7099L

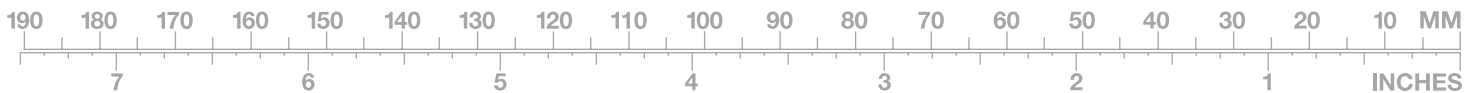
**All Purpose**  
bandage/utility  
serrated, autoclavable  
black plastic handles  
length 7<sup>1</sup>/<sub>2</sub>"

90% of Actual Size



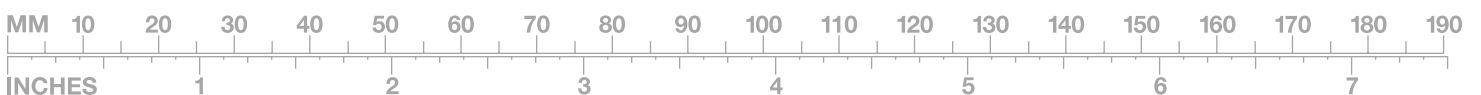
RS-7099S

**All Purpose**  
bandage/utility  
serrated, autoclavable  
black plastic handles  
length 6<sup>1</sup>/<sub>2</sub>"

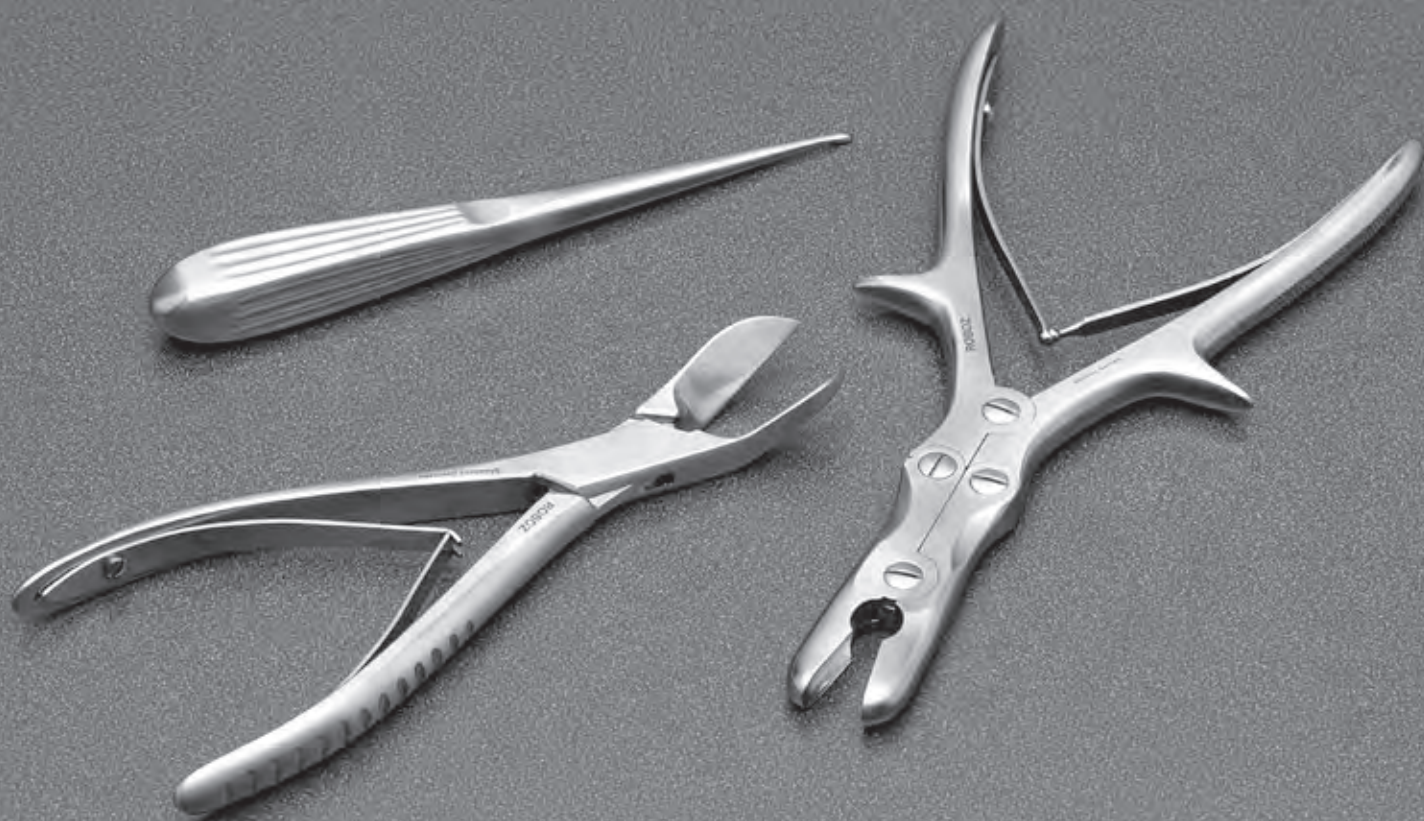


COMPARISON OF MILLIMETERS TO INCHES			
MM	INCHES	MM	INCHES
0.33	.013	6	.236
0.5	.020	6.33	.249
0.67	.026	6.5	.256
1	.039	6.67	.263
1.33	.052	7	.275
1.5	.059	7.33	.288
1.67	.066	7.5	.295
2	.079	7.67	.302
2.33	.092	8	.315
2.5	.098	8.33	.328
2.67	.105	8.5	.335
3	.118	8.67	.341
3.33	.131	9	.354
3.5	.138	9.33	.367
3.67	.144	9.5	.374
4	.157	9.67	.380
4.33	.170	10	.394
4.5	.177	10.33	.407
4.67	.184	10.67	.420
5	.197	11	.433
5.33	.210	11.33	.446
5.5	.216	11.67	.459
5.67	.223	12	.472

COMPARISON OF INCHES TO MILLIMETERS				COMPARISON OF INCHES TO CENTIMETERS		COMPARISON OF CENTIMETERS TO INCHES	
INCHES	MM	INCHES	MM	INCHES	CM	CM	INCHES
1/32	0.79	17/32	13.49	1	2.54	1	.3937
1/16	1.59	9/16	14.29	2	5.08	2	.7874
3/32	2.38	19/32	15.08	3	7.62	3	1.1811
1/8	3.18	5/8	15.88	4	10.16	4	1.5748
5/32	3.97	21/32	16.67	5	12.70	5	1.9685
3/16	4.76	11/16	17.46	6	15.24	6	2.3622
7/32	5.56	23/32	18.26	7	17.78	7	2.7559
1/4	6.35	3/4	19.05	8	20.32	8	3.1496
9/32	7.14	25/32	19.84	9	22.86	9	3.5433
5/16	7.94	13/16	20.64	10	25.40	10	3.9370
11/32	8.73	27/32	21.43	11	27.94	20	7.8740
3/8	9.53	7/8	22.22	12	30.48	30	11.8110
13/32	10.32	29/32	23.02	13	33.02	40	15.7480
7/16	11.11	15/16	23.81	14	35.56		
15/32	11.91	31/32	24.61	15	38.10		
1/2	12.07	1"	25.40				



# Bone Instruments



RS-8300

**FRIEDMAN**  
 slight curve  
 very delicate  
 jaw width 2mm  
 length 5<sup>1/2</sup>"



**Micro FRIEDMAN**  
 very delicate  
 jaw width 1.3mm  
 length 5<sup>1/2</sup>"

RS-8302

straight

RS-8303

curved

RS-8305

angled

RS-8306

extra delicate  
 jaw width 0.7mm  
 curved

RS-8302 Shown





RS-8310

**Mini Bone Rongeur**

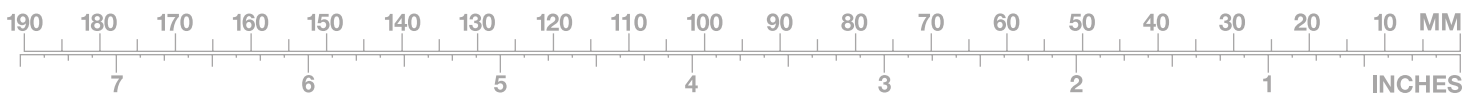
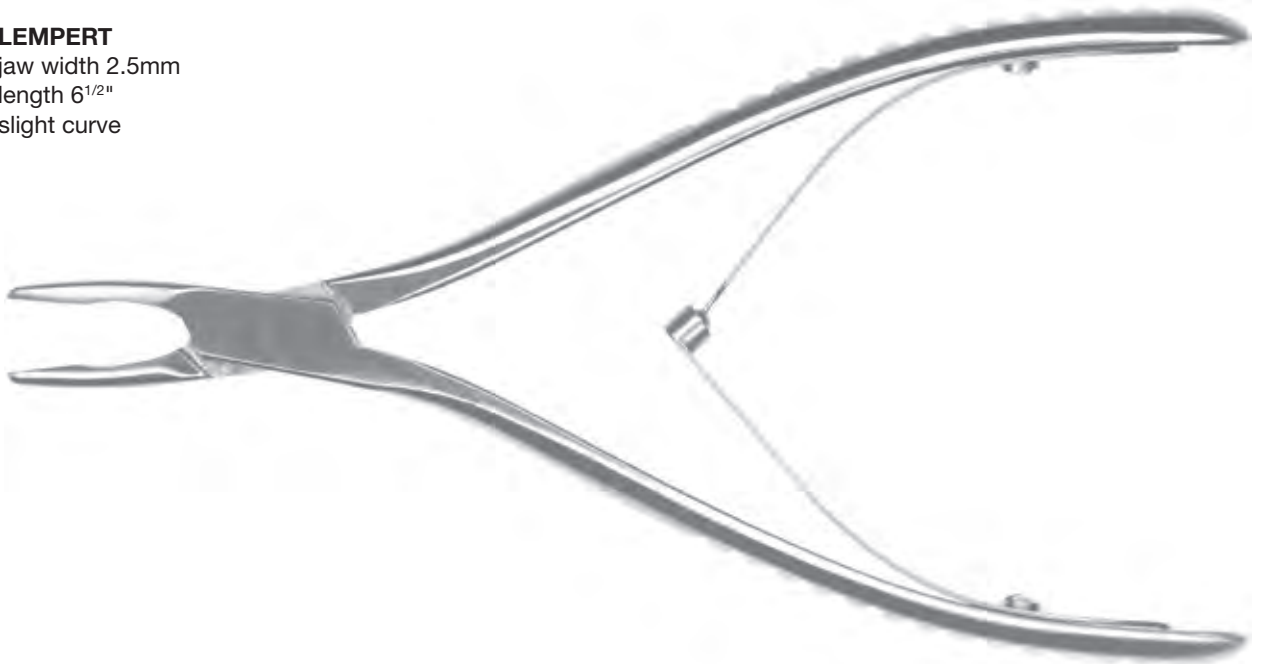
jaw width 2mm  
jaw length 8mm  
overall length 5"



RS-8321

**LEMPERT**

jaw width 2.5mm  
length 6<sup>1</sup>/<sub>2</sub>"  
slight curve





RS-8301

**Micro BLUMENTHAL**  
curved  
length 4<sup>1</sup>/<sub>2</sub>"

RS-8340

delicate  
jaw width 1.3mm  
jaw width 2mm



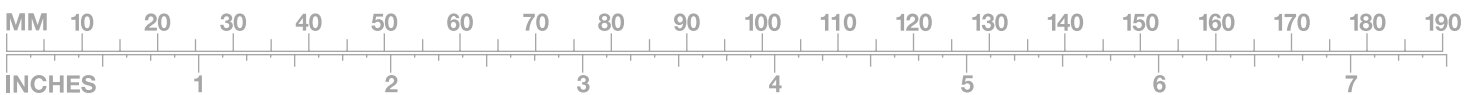
RS-8342

**BLUMENTHAL**  
jaw width 2.5mm  
slight angle  
length 6"



RS-8360

**HARTMAN**  
strong curve  
length 5<sup>3</sup>/<sub>4</sub>"



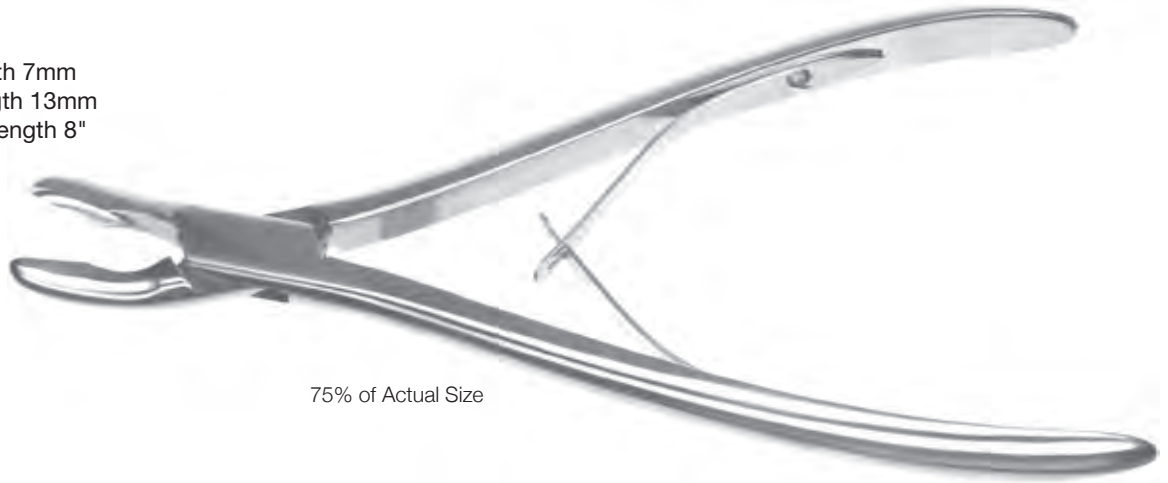
RS-8370

**BANE**  
curved  
length 7"



RS-8374

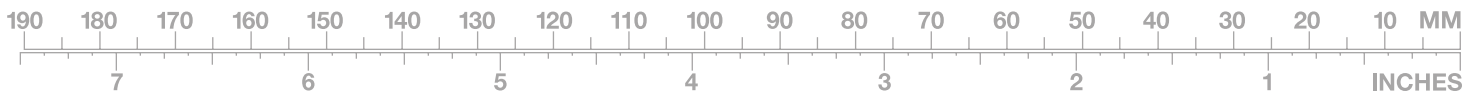
**ADSON**  
curved  
jaw width 7mm  
jaw length 13mm  
overall length 8"



75% of Actual Size

RS-8431

**RUSKIN**  
double action, curved  
jaw width 3mm  
length 6"





RS-8469

**Extra Delicate Bone trimmer**  
7mm cutting edge  
length 5<sup>1/2</sup>"



RS-8470

**Bone Cutter**  
convex jaws, delicate  
6mm cutting edge  
length 5"



RS-8480 Shown

RS-8480

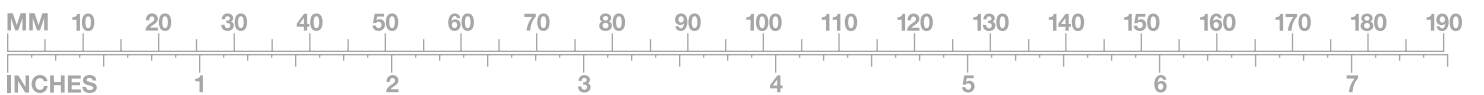
**LITTAUER**  
bone cutting forceps  
straight  
13mm cutting edge

RS-8482

length 5"

RS-8484

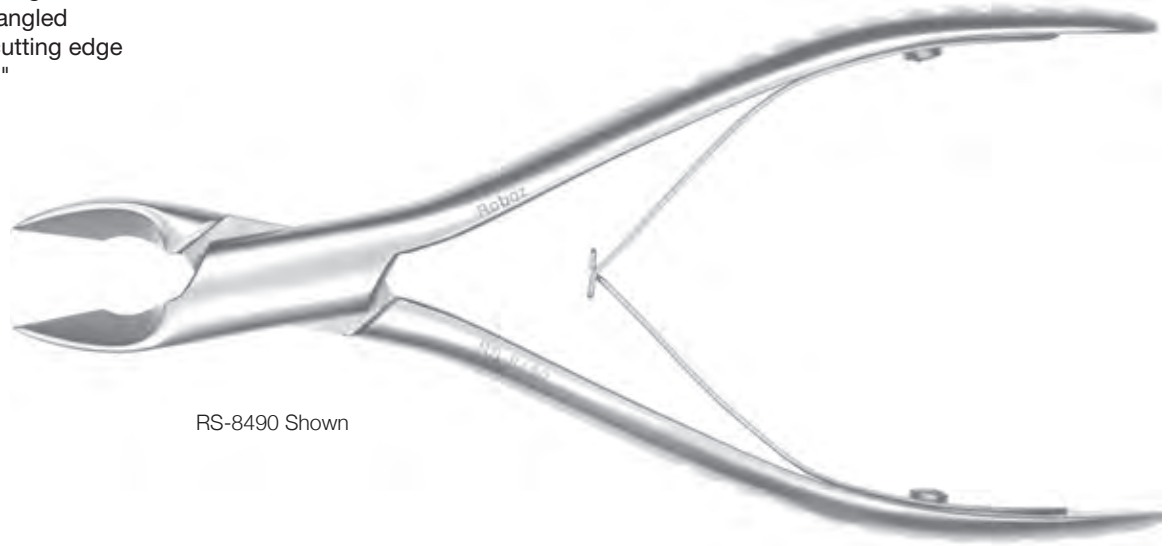
length 6"



RS-8490

**CLEVELAND**

bone cutting forceps  
side-cutting  
slightly angled  
12mm cutting edge  
length 6"

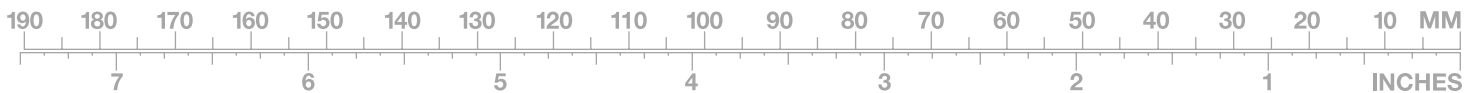


RS-8490 Shown

RS-8520

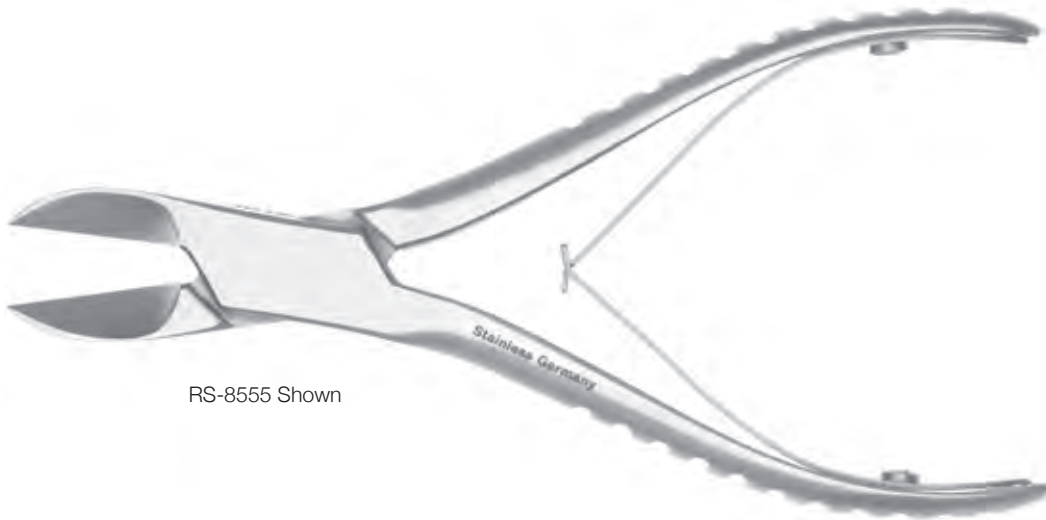
**RUSKIN**

double action, straight  
length 5 1/2"



**LISTON**

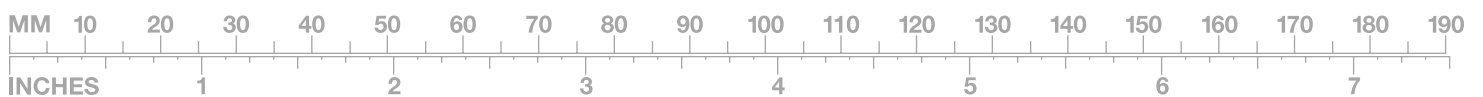
- RS-8540** straight, length 5<sup>1</sup>/<sub>2</sub>"  
**RS-8544** straight, length 8<sup>1</sup>/<sub>2</sub>"  
**RS-8555** angled on flat, length 5<sup>1</sup>/<sub>2</sub>"  
**RS-8559** angled on flat, length 8<sup>3</sup>/<sub>4</sub>"



RS-8555 Shown

**RS-8468****BEEBEE**

bone shears  
 strong blades  
 blade length 18mm  
 length 4"



RS-8820

**FREER**

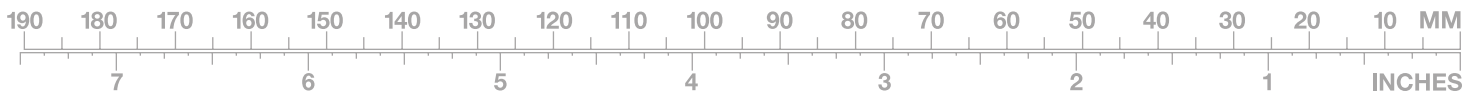
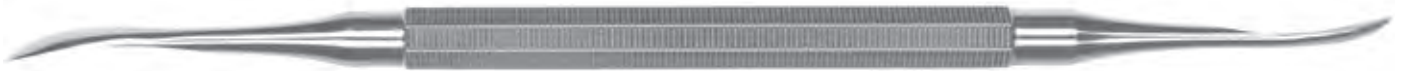
double ended  
sharp and blunt blades  
width 5mm  
length 7"



RS-8830

**MOLT**

double ended  
sharp and blunt blades  
tip width:  
5mm sharp  
8mm blunt  
length 7<sup>1</sup>/<sub>4</sub>"



**RS-8910**

**FREER**  
width 4mm  
length 6<sup>1/2</sup>"  
straight



RS-8910 Shown

**RS-9782**

**VIRCHOW**  
skull breaker  
blade 1/2"  
length 3"



**RS-9040**

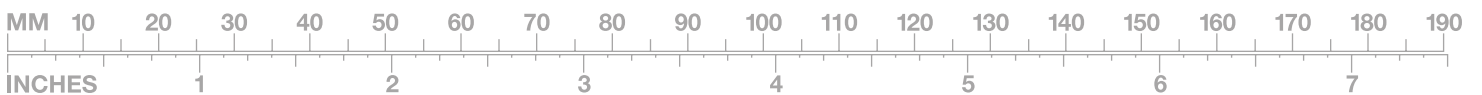
**SPRATT**  
length 6<sup>1/2</sup>"

**RS-9052**

oval, size 5/0  
oval, size 2/0



RS-9040 Shown





RS-9110

**GLUCK**  
rib shears  
length 8<sup>1</sup>/<sub>2</sub>"



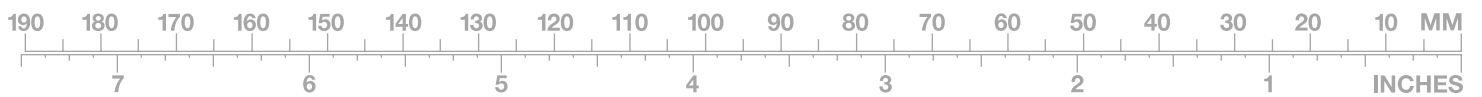
75% of Actual Size

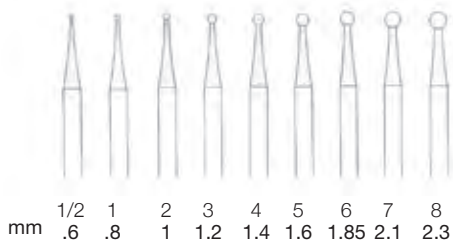
RS-9120

**LANGENBECK**  
saw  
blade length 4<sup>1</sup>/<sub>2</sub>"  
overall length 9"



50% of Actual Size



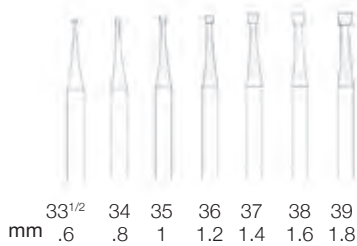


Please specify size when ordering

**RS-6280C**

**Round**

sizes 1/2 thru 8  
hand piece  
1.75" length  
2.33mm shaft diameter  
pack of 5



Please specify size when ordering

**RS-6282C**

**Inverted Cone**

sizes 33.5 through 39  
hand piece  
1.75" length  
2.33mm shaft diameter  
pack of 5



RS-6308 Shown

**Trepine**

micro dissecting  
hand piece  
carbide

**RS-6306**

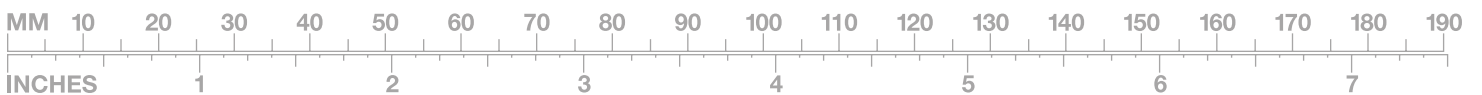
diameter 1.8mm

**RS-6308**

diameter 2.3mm

**RS-6310**

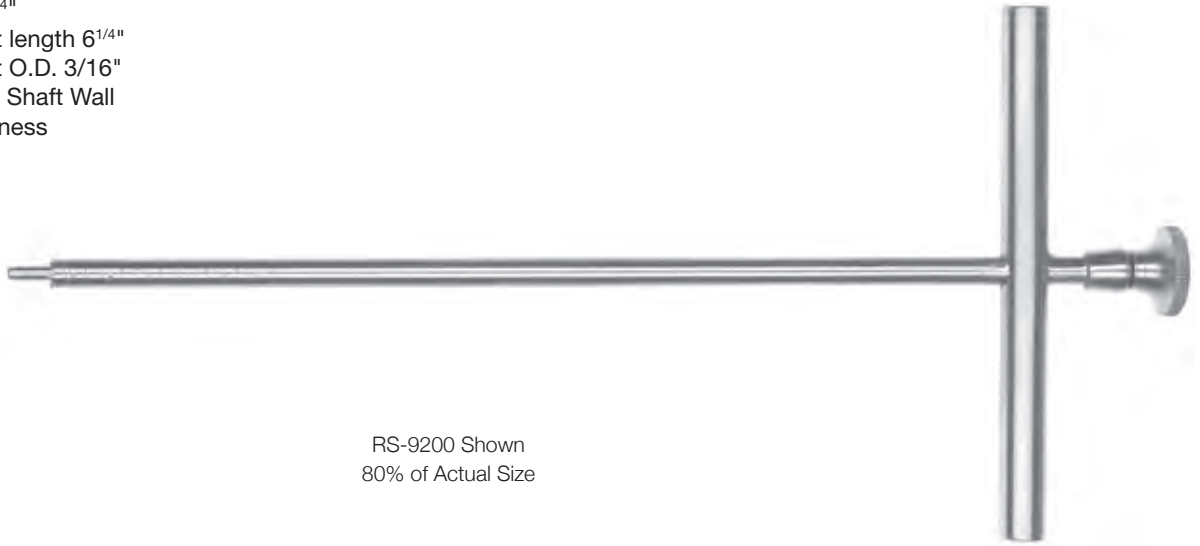
diameter 2.7mm



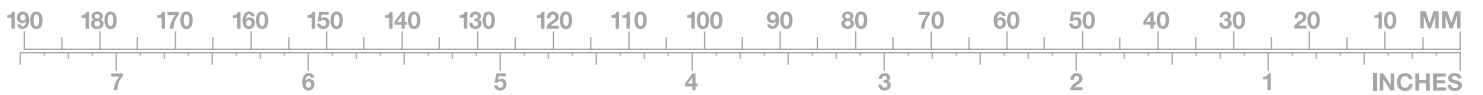
RS-9200

**MICHELE**

trephine  
graduations 1/4"  
to 1 1/4"  
Shaft length 6 1/4"  
Shaft O.D. 3/16"  
1mm Shaft Wall  
thickness

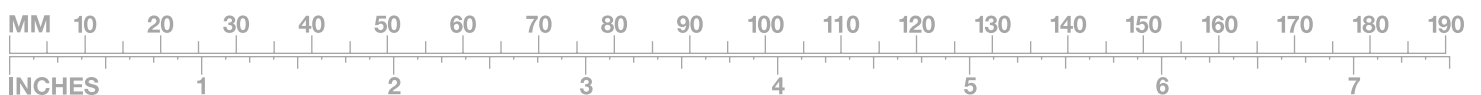


RS-9200 Shown  
80% of Actual Size



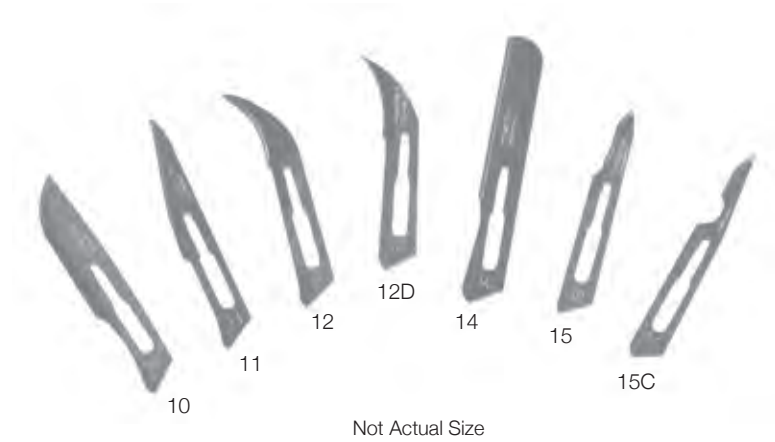
COMPARISON OF MILLIMETERS TO INCHES			
MM	INCHES	MM	INCHES
0.33	.013	6	.236
0.5	.020	6.33	.249
0.67	.026	6.5	.256
1	.039	6.67	.263
1.33	.052	7	.275
1.5	.059	7.33	.288
1.67	.066	7.5	.295
2	.079	7.67	.302
2.33	.092	8	.315
2.5	.098	8.33	.328
2.67	.105	8.5	.335
3	.118	8.67	.341
3.33	.131	9	.354
3.5	.138	9.33	.367
3.67	.144	9.5	.374
4	.157	9.67	.380
4.33	.170	10	.394
4.5	.177	10.33	.407
4.67	.184	10.67	.420
5	.197	11	.433
5.33	.210	11.33	.446
5.5	.216	11.67	.459
5.67	.223	12	.472

COMPARISON OF INCHES TO MILLIMETERS				COMPARISON OF INCHES TO CENTIMETERS		COMPARISON OF CENTIMETERS TO INCHES	
INCHES	MM	INCHES	MM	INCHES	CM	CM	INCHES
1/32	0.79	17/32	13.49	1	2.54	1	.3937
1/16	1.59	9/16	14.29	2	5.08	2	.7874
3/32	2.38	19/32	15.08	3	7.62	3	1.1811
1/8	3.18	5/8	15.88	4	10.16	4	1.5748
5/32	3.97	21/32	16.67	5	12.70	5	1.9685
3/16	4.76	11/16	17.46	6	15.24	6	2.3622
7/32	5.56	23/32	18.26	7	17.78	7	2.7559
1/4	6.35	3/4	19.05	8	20.32	8	3.1496
9/32	7.14	25/32	19.84	9	22.86	9	3.5433
5/16	7.94	13/16	20.64	10	25.40	10	3.9370
11/32	8.73	27/32	21.43	11	27.94	20	7.8740
3/8	9.53	7/8	22.22	12	30.48	30	11.8110
13/32	10.32	29/32	23.02	13	33.02	40	15.7480
7/16	11.11	15/16	23.81	14	35.56		
15/32	11.91	31/32	24.61	15	38.10		
1/2	12.07	1"	25.40				



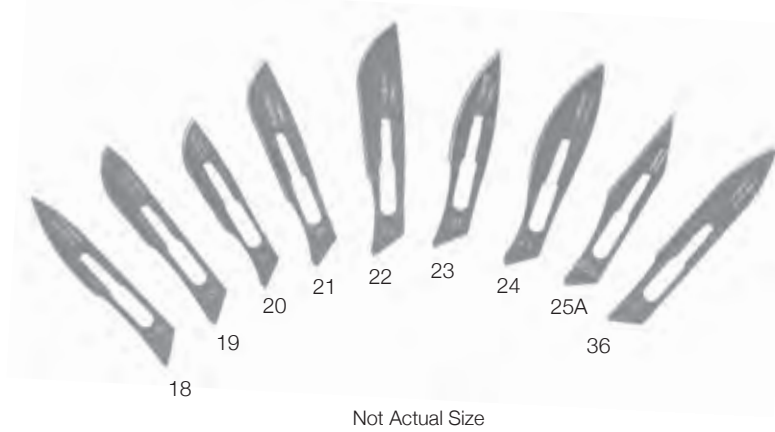
# Scalpels





**Sterile Scalpel Blades**  
interchangeable  
nos. 10, 11, 12, 12D, 14, 15, 15C  
for use with handles #3 & #7  
box of 100

- RS-9801-10**
- RS-9801-11**
- RS-9801-12**
- RS-9801-12D**
- RS-9801-14**
- RS-9801-15**
- RS-9801-15C**



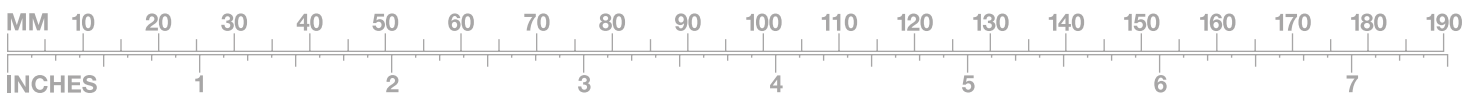
**Sterile Scalpel Blades**  
interchangeable  
nos. 18, 19, 20, 21, 22, 23, 24, 25A, 36  
for use with handle #4  
box of 100

- RS-9861-18**
- RS-9861-19**
- RS-9861-20**
- RS-9861-21**
- RS-9861-22**
- RS-9861-23**
- RS-9861-24**
- RS-9861-25A**
- RS-9861-36**

Please specify blade number



**RS-9870**      **Scalpel blade  
remover**  
and disposal container.  
Safely removes and  
stores approximately  
100 scalpel blades.



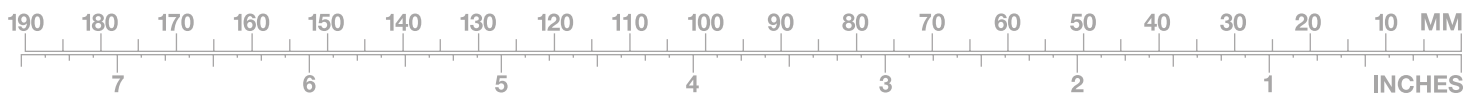
**RS-9843**      **Scalpel Handle, #3**  
solid  
length 4"



**RS-9847**      **Scalpel Handle, #7**  
solid  
length 6<sup>1</sup>/<sub>4</sub>"



**RS-9884**      **Scalpel Handle, #4**  
solid  
length 5<sup>1</sup>/<sub>4</sub>"



37-1350



**Handle**  
round, knurled  
length 13cm  
diameter .5cm

37-4310



**Handle**  
round, knurled  
length 10cm  
diameter .5cm

37-4312



**Handle**  
round, knurled  
length 7.5cm  
diameter .5cm

37-5910



**Needle blade**  
3.0mm cutting edge  
box/3  
for use with handles  
# 37-1350, 37-4310,  
37-4312

37-5920

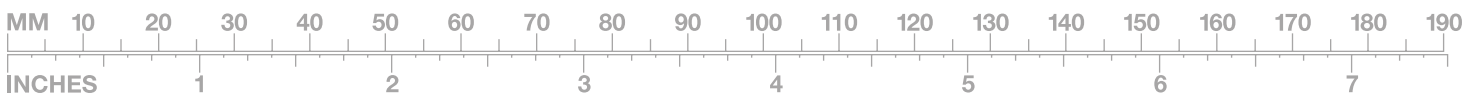


**Needle blade**  
5.0mm cutting edge  
box/3  
for use with handles  
# 37-1350, 37-4310,  
37-4312

37-6100



**Miniature blade**  
1.5mm cutting edge  
box/24  
for use with handles  
# 37-1350, 37-4310,  
37-4312





37-7513

**Miniature scalpel**  
 disposable blade  
 assembly w/o handle  
 blue  
 15° 3mm depth  
 box/6



For use with handle #37-1350, 37-4310, or 37-4312

37-7515

**Miniature scalpel**  
 disposable blade  
 assembly w/o handle  
 green  
 15° 5mm depth  
 box/6



For use with handle #37-1350, 37-4310, or 37-4312

37-7514

**Miniature 1 piece**  
 disposable scalpel  
 blue  
 15° 3mm depth  
 box/6



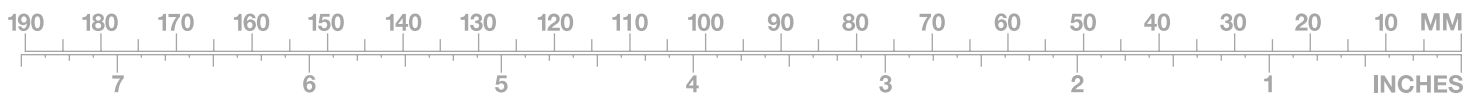
37-7516

**Miniature 1 piece**  
 disposable scalpel  
 green  
 15° 5mm depth  
 box/6



37-7546

**Miniature 1 piece**  
 disposable scalpel  
 tan  
 45° 3mm depth  
 box/6



RS-6456

**CASTROVIEJO**  
blade breaker  
with push-pull lock  
length 5<sup>1/4"</sup>

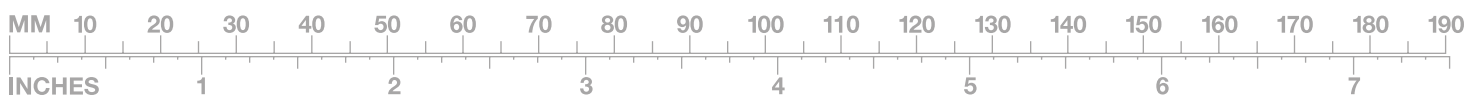


RS-6458

**Breakable**  
double edge blade,  
carbon steel



These carbon steel blades have super sharp edges. They are easy to break and hold with our RS-6456 blade breaker to make a sharp micro scalpel.



**RS-6100**      **Micro Dissecting**  
 knife handle  
 straight  
 length 4<sup>1/2</sup>"



This handle can be used with RS-6120 through RS-6142

**RS-6110**      **Micro Dissecting**  
 knife handle  
 tapered  
 length 5<sup>1/2</sup>"



This handle can be used with RS-6120 through RS-6142

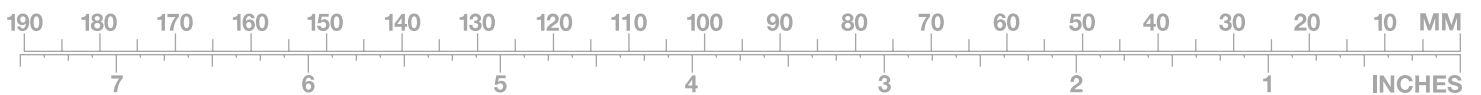
**RS-6120**      **Micro Dissecting Knife**  
 1mm cutting edge  
 shaft length 1<sup>1/2</sup>"

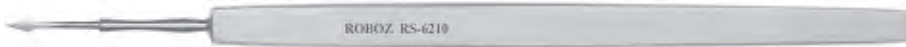


**RS-6122**      **Micro Dissecting Knife**  
 1.5mm cutting edge  
 shaft length 1<sup>1/2</sup>"



**RS-6125**      **Micro Dissecting Knife**  
 spear point  
 1.5mm cutting edge  
 shaft length 1<sup>1/2</sup>"





RS-6210

**BOWMAN**

micro dissecting knife  
spear point  
blade length 3mm  
length 116mm



RS-6215

**VON GRAEFE**

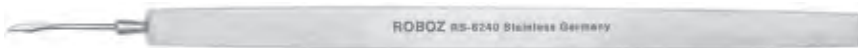
micro dissecting knife  
malleable shaft  
cutting edge  
on inside portion  
blade length 1mm  
overall length 124mm



RS-6220

**DEAN**

micro dissecting knife  
curved  
blade 1 x 7mm  
length 122mm



RS-6240

**ZIEGLER**

micro dissecting knife  
no. 0, blade 3mm  
overall length 109mm



RS-6242

**ZIEGLER**

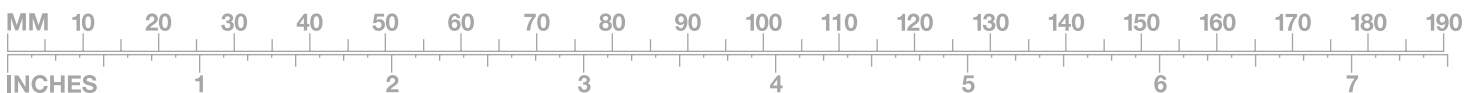
micro dissecting knife  
no. 1, blade 5mm  
overall length 111mm



RS-6244

**ZIEGLER**

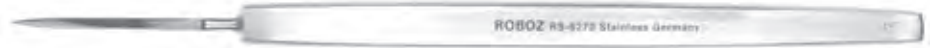
micro dissecting knife  
no. 3, blade 7mm  
overall length 113mm



RS-6250

**GRAEFE**

micro dissecting knife  
no. 0, blade 1 x 18mm  
overall length 113mm



RS-6270

**GRAEFE**

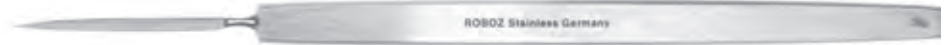
micro dissecting knife  
no. 1, blade 1.5 x 25mm  
overall length 120mm



RS-6272

**GRAEFE**

micro dissecting knife  
no. 2, blade 1.7 x 27mm  
overall length 122mm



RS-9410

**SCHUKNECHT**

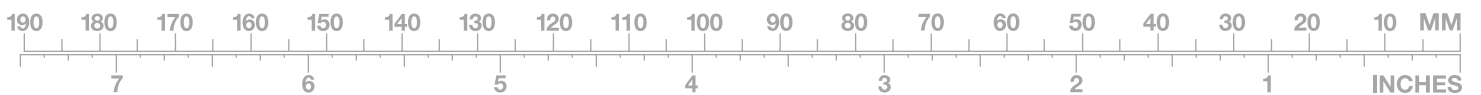
rotating disk knife  
3mm disk diameter  
disk in line with handle



RS-9411

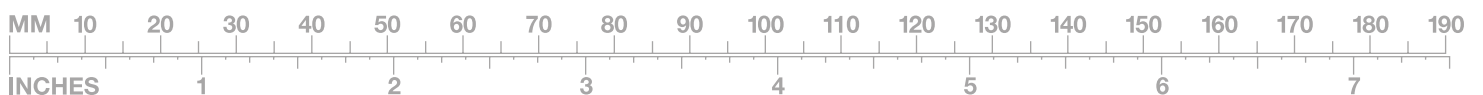
**SCHUKNECHT**

rotating disk knife  
3mm disk diameter  
disk perpendicular  
to handle



COMPARISON OF MILLIMETERS TO INCHES			
MM	INCHES	MM	INCHES
0.33	.013	6	.236
0.5	.020	6.33	.249
0.67	.026	6.5	.256
1	.039	6.67	.263
1.33	.052	7	.275
1.5	.059	7.33	.288
1.67	.066	7.5	.295
2	.079	7.67	.302
2.33	.092	8	.315
2.5	.098	8.33	.328
2.67	.105	8.5	.335
3	.118	8.67	.341
3.33	.131	9	.354
3.5	.138	9.33	.367
3.67	.144	9.5	.374
4	.157	9.67	.380
4.33	.170	10	.394
4.5	.177	10.33	.407
4.67	.184	10.67	.420
5	.197	11	.433
5.33	.210	11.33	.446
5.5	.216	11.67	.459
5.67	.223	12	.472

COMPARISON OF INCHES TO MILLIMETERS				COMPARISON OF INCHES TO CENTIMETERS		COMPARISON OF CENTIMETERS TO INCHES	
INCHES	MM	INCHES	MM	INCHES	CM	CM	INCHES
1/32	0.79	17/32	13.49	1	2.54	1	.3937
1/16	1.59	9/16	14.29	2	5.08	2	.7874
3/32	2.38	19/32	15.08	3	7.62	3	1.1811
1/8	3.18	5/8	15.88	4	10.16	4	1.5748
5/32	3.97	21/32	16.67	5	12.70	5	1.9685
3/16	4.76	11/16	17.46	6	15.24	6	2.3622
7/32	5.56	23/32	18.26	7	17.78	7	2.7559
1/4	6.35	3/4	19.05	8	20.32	8	3.1496
9/32	7.14	25/32	19.84	9	22.86	9	3.5433
5/16	7.94	13/16	20.64	10	25.40	10	3.9370
11/32	8.73	27/32	21.43	11	27.94	20	7.8740
3/8	9.53	7/8	22.22	12	30.48	30	11.8110
13/32	10.32	29/32	23.02	13	33.02	40	15.7480
7/16	11.11	15/16	23.81	14	35.56		
15/32	11.91	31/32	24.61	15	38.10		
1/2	12.07	1"	25.40				



# Wound Closures





RS-7981

**Eye Needles**  
3/8 circle, cutting edge  
size: 1, 2, 3, or 4  
sold by dozen

Please specify size when ordering



RS-7982

**Eye Needles**  
1/2 circle, cutting edge  
size: 1, 2, 3, or 4  
sold by dozen

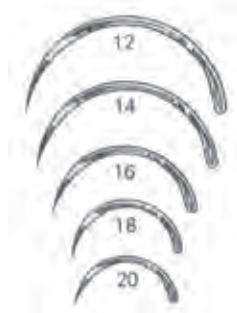
Please specify size when ordering



RS-7983

**Eye Needles**  
1/2 circle, taper point  
size: 1, 2, 3, or 4  
sold by dozen

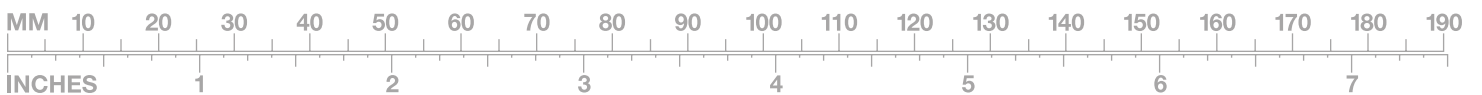
Please specify size when ordering



RS-7985

**Regular Surgeon's**  
3/8 circle, cutting edge  
sold by dozen

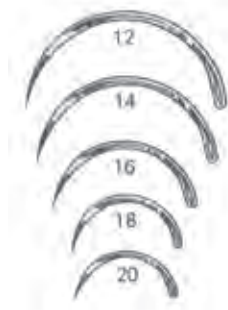
Please specify size when ordering





RS-7986

**Regular Surgeon's**  
1/2 circle, cutting edge  
sold by dozen

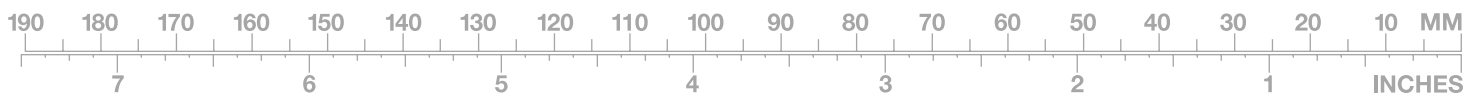


Please specify size when ordering

---

RS-7987

**Fine Intestinal Needle**  
straight, taperpoint  
sizes: 1 1/2"  
sold by dozen

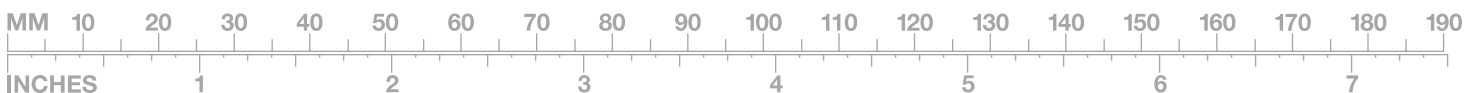


## NON-STERILE

Cat.#	Size	Material		Length	Needle	Packaged
SUT-14-1	6-0	Silk, Black, Braided	Non-Absorbable	100yd	None	Spool
SUT-15-1	5-0	Silk, Black, Braided	Non-Absorbable	100yd	None	Spool
SUT-15-2	4-0	Silk, Black, Braided	Non-Absorbable	100yd	None	Spool
SUT-15-3	3-0	Silk, Black, Braided	Non-Absorbable	100yd	None	Spool
SUT-15-4	2-0	Silk, Black, Braided	Non-Absorbable	100yd	None	Spool

## STERILE, WITH NEEDLE

Cat.#	Size	Material		Length	Needle	Packaged
SUT-1228-13	6-0	Silk, Black, Braided	Non-Absorbable	18"	HE-7	Box/12
SUT-1073-11	6-0	Silk, Black, Braided	Non-Absorbable	18"	C-1	Box/36
SUT-1073-21	5-0	Silk, Black, Braided	Non-Absorbable	18"	C-1	Box/36
SUT-1074-21	5-0	Silk, Black, Braided	Non-Absorbable	18"	C-13	Box/36
SUT-1091-23	5-0	Silk, Black, Braided	Non-Absorbable	18"	P-12	Box/12
SUT-570-31	4-0	Gut, Chromic	Absorbable	18"	C-12	Box/36
SUT-566-31	4-0	Gut, Chromic	Absorbable	18"	C-13	Box/36
SUT-1066-31	4-0	Silk, Black, Braided	Non-Absorbable	18"	C-22	Box/36
SUT-1073-31	4-0	Silk, Black, Braided	Non-Absorbable	18"	C-1	Box/36
SUT-1074-31	4-0	Silk, Black, Braided	Non-Absorbable	18"	C-13	Box/36
SUT-1076-31	4-0	Silk, Black, Braided	Non-Absorbable	18"	C-14	Box/36
SUT-1203-33	4-0	Silk, Black, Braided	Non-Absorbable	18"	P-13	Box/12
SUT-1123-31	4-0	Silk, Black, Braided	Non-Absorbable	30"	V-20	Box/36
SUT-566-41	3-0	Gut, Chromic	Absorbable	18"	C-13	Box/36
SUT-1074-41	3-0	Silk, Black, Braided	Non-Absorbable	18"	C-13	Box/36
SUT-1076-41	3-0	Silk, Black, Braided	Non-Absorbable	18"	C-14	Box/36
SUT-1123-41	3-0	Silk, Black, Braided	Non-Absorbable	30"	V-20	Box/36



NEEDLE CHART FOR SUTURES WITH NEEDLES

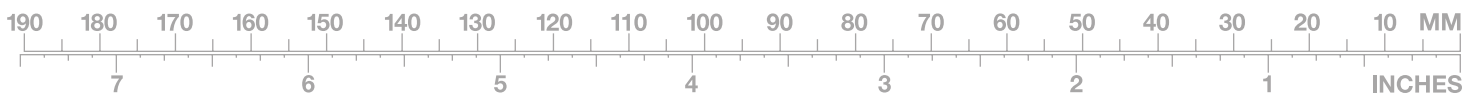
REVERSE CUTTING  
3/8 CIRCLE



REVERSE CUTTING  
1/2 CIRCLE



TAPER  
1/2 CIRCLE





RS-7069

**Wire Cutting**  
serrated  
angled with notch  
length 5"



RS-5950

**SPENCER**  
stitch, very delicate  
length 3<sup>1/2</sup>"



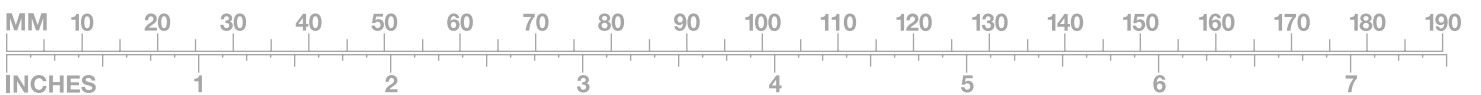
RS-7074 Shown

RS-7074

**LITTAUER**  
stitch

RS-7076

length 4<sup>1/2</sup>"  
length 5<sup>1/2</sup>"



**RS-6400**      **KALT**  
with lock  
length 5<sup>1</sup>/<sub>2</sub>"



**RS-6403**      **PATTON**  
straight without lock  
length 4<sup>1</sup>/<sub>2</sub>"  
serrated



**CASTROVIEJO**  
length 5<sup>3</sup>/<sub>4</sub>"

**RS-6410**      straight without lock  
**RS-6412**      straight with lock



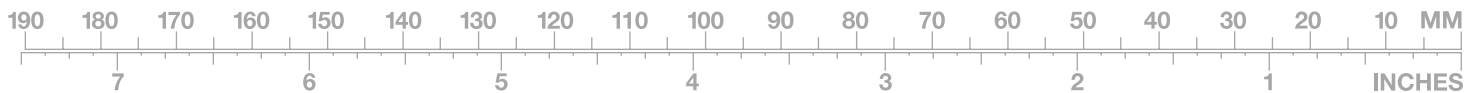
RS-6412 Shown

**CASTROVIEJO**  
extra delicate  
0.75mm wide jaws  
to hold 7-0 to 10-0  
sutures  
length 5<sup>3</sup>/<sub>4</sub>"

**RS-6416**      straight with lock  
**RS-6417**      curved with lock



RS-6417 Shown





RS-6421

**McPHERSON**

0.8mm tips  
length 4"  
curved  
smooth tapered jaws



RS-6430

**CASTROVIEJO**

round handle with lock  
carbide jaws  
length 4<sup>1/2</sup>"



RS-6437

**Micro Needle Holder**

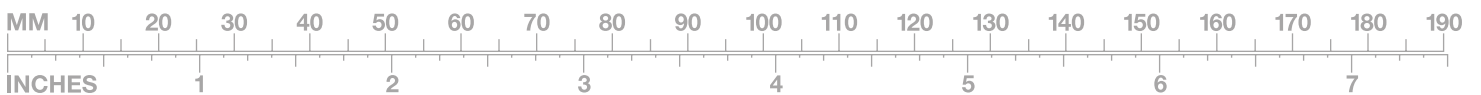
0.8mm tips  
length 5<sup>1/8</sup>"  
curved jaws with lock



RS-6445

**Micro Needle Holder**

0.8mm tips  
length 7<sup>1/8</sup>"  
curved jaws with lock



**Intracardiac**  
extra delicate  
with carbide jaws

**RS-7800** length 5"

**RS-7804** length 7"

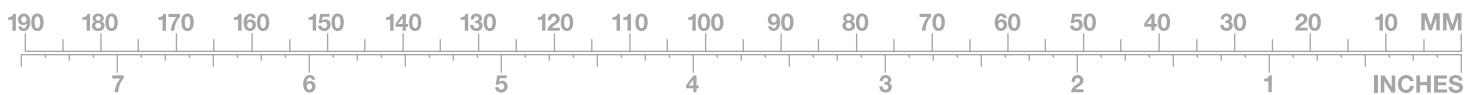


RS-7800 Shown

Note: tungsten carbide inserts have 4,000 teeth per square inch

**RS-7820**

**BABY DERF**  
large finger rings  
length 4<sup>1</sup>/<sub>4</sub>"





RS-7822 Shown

RS-7822

RS-7824

**DERF**  
length 4<sup>3/4</sup>"

standard jaws

carbide jaws



RS-7830 Shown

RS-7830

RS-7832

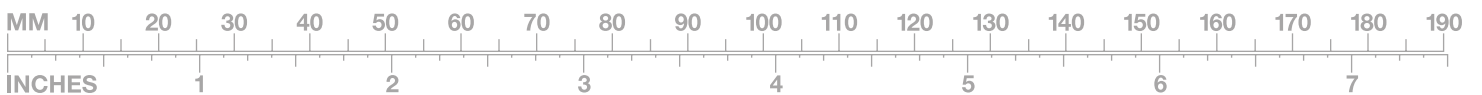
RS-7842

**WEBSTER**  
smooth jaws, delicate

length 4<sup>3/4</sup>"

length 5"

serrated carbide jaws  
length 5"





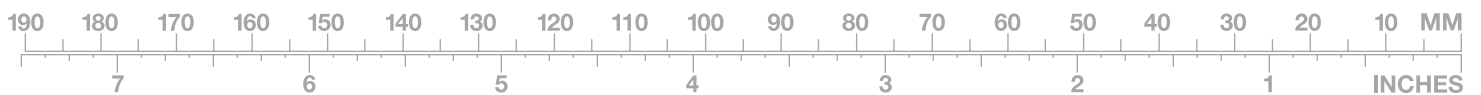
**HALSEY**  
length 5"

- RS-7840** smooth jaws  
**RS-7841** serrated jaws  
carbide  
**RS-7841L** left-handed version



RS-7840 Shown

- RS-7850** **HEGAR-BAUMGARTNER**  
length 5<sup>1</sup>/<sub>4</sub>"



**CRILE-WOOD**

**RS-7860**

length 6"

**RS-7862**

length 7"



RS-7860 Shown

**OLSEN-HEGAR**

extra delicate with  
combination scissor  
length 4<sup>3/4</sup>"

**RS-7880**

serrated jaws

**RS-7882**

smooth jaws

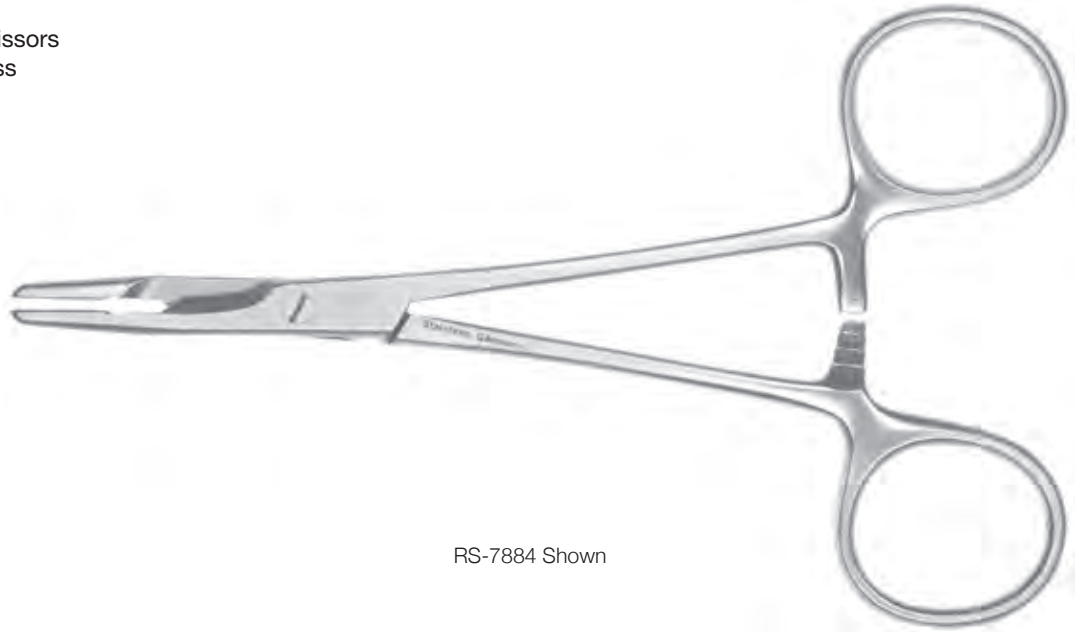


RS-7880 Shown



**OLSEN-HEGAR**

needle holder scissors  
 combination cross  
 serration tip

**RS-7884**length 5<sup>1</sup>/<sub>2</sub>"**RS-7886**length 6<sup>1</sup>/<sub>2</sub>"

RS-7884 Shown

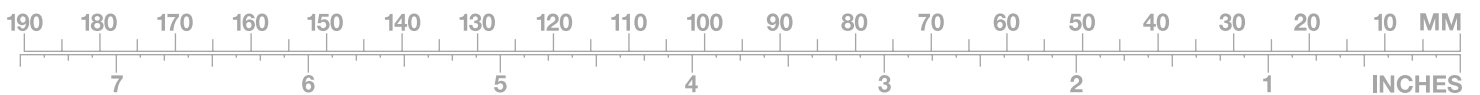
**OLSEN-HEGAR**

needle holder scissors  
 combination  
 with carbide jaws

**RS-7892**length 4<sup>3</sup>/<sub>4</sub>"**RS-7894**length 5<sup>1</sup>/<sub>2</sub>"**RS-7896**length 6<sup>1</sup>/<sub>2</sub>"

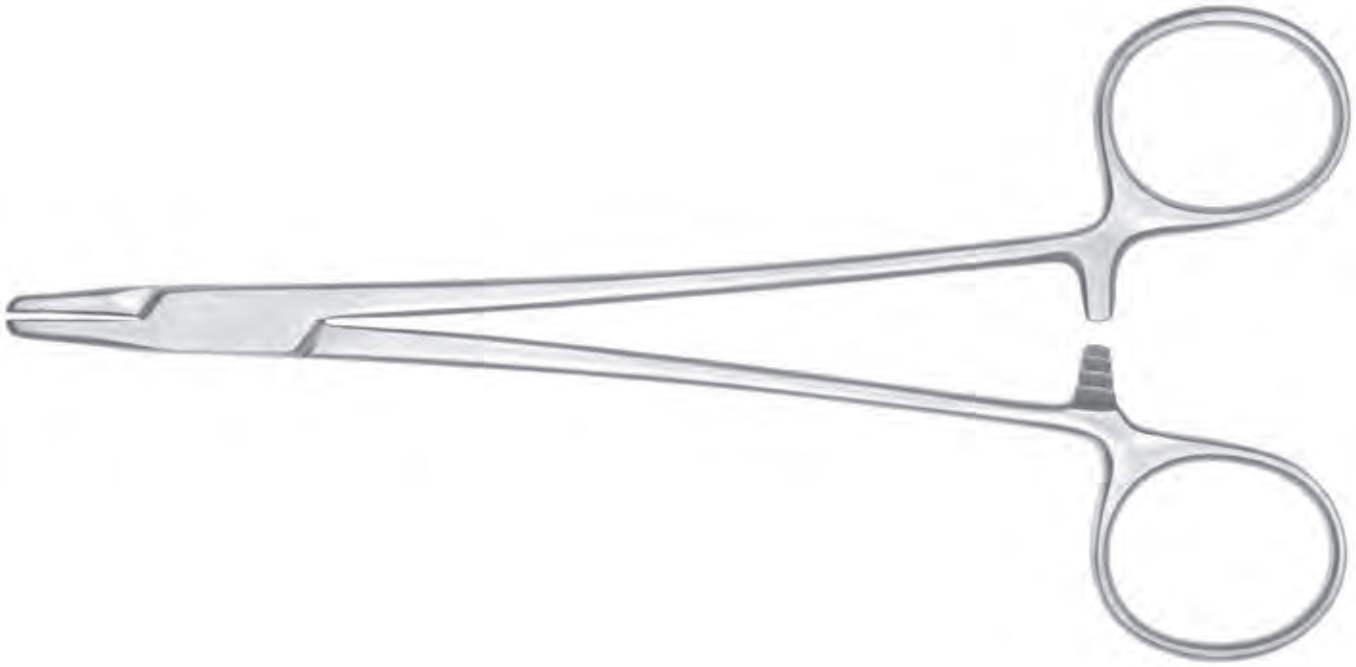
RS-7894 Shown

Note: tungsten carbide inserts have 2,600 teeth per square inch



RS-7900

**METZENBAUM**  
length 7"  
straight



**MAYO-HEGAR**

RS-7910

length 5<sup>1</sup>/<sub>4</sub>"

RS-7912

length 6<sup>1</sup>/<sub>4</sub>"

RS-7912L

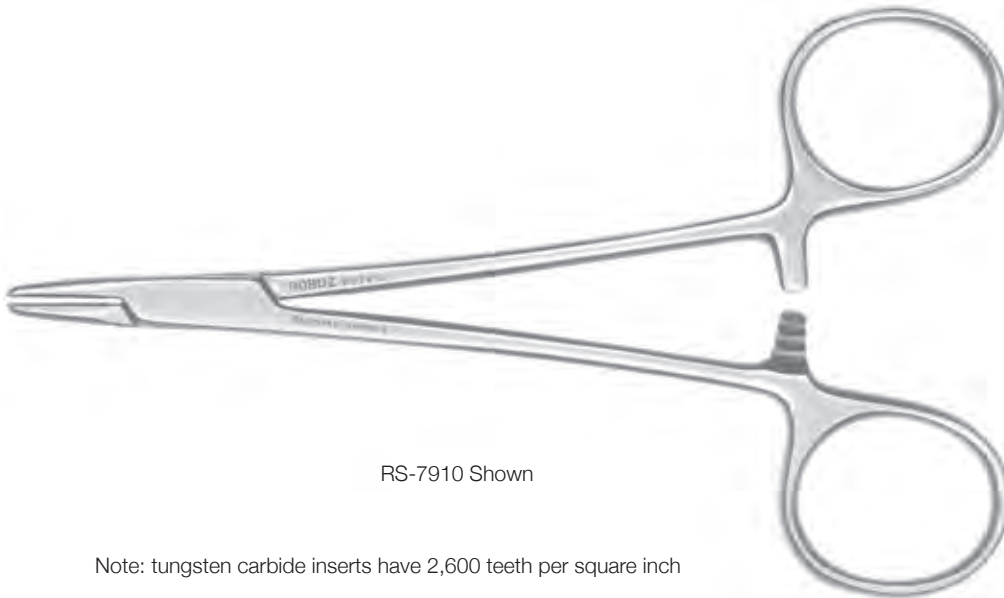
left-handed version

RS-7920

with carbide jaws  
length 5<sup>1</sup>/<sub>4</sub>"

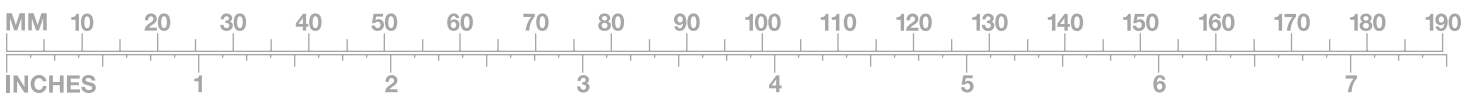
RS-7922

with carbide jaws  
length 6<sup>1</sup>/<sub>4</sub>"



RS-7910 Shown

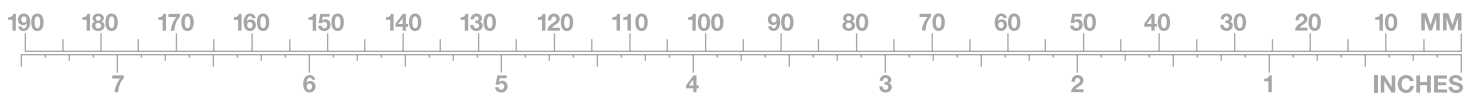
Note: tungsten carbide inserts have 2,600 teeth per square inch



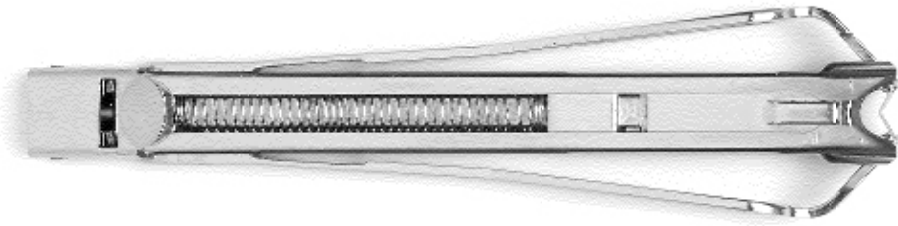
RS-7960

**BROWN**

convex jaw  
with fine serrations  
for easy suture tying  
length 5<sup>1</sup>/<sub>4</sub>"



**Reflex Wound Clip Products**



- RS-9260** Reflex 9 Wound Clip Applier for Reflex 9mm clips only
- RS-9262** Reflex 9 Wound Clip 9mm for use with RS-9260 box of 100 Stainless Steel
- RS-9265** Reflex 9 Wound Clip 9mm for use with RS-9260 box of 1,000 Stainless Steel
- RS-9250** Reflex 7 Clip Applier for Reflex 7mm clips only
- RS-9258** Reflex 7 Clip 7mm for use with RS-9250 box of 100 Stainless Steel
- RS-9255** Reflex 7 Clip 7mm for use with RS-9250 box of 1,000 Stainless Steel



- RS-9263** Reflex Wound Clip removing forceps for 9mm, 7mm and other brands length 4"



**MICHEL**  
wound clips  
packaged 1,000 pcs.  
per box

- RS-9270 7.5mm
- RS-9272 11mm



**RS-9290** **HEGENBARTH**  
clip applying forceps  
cross action  
length 5"

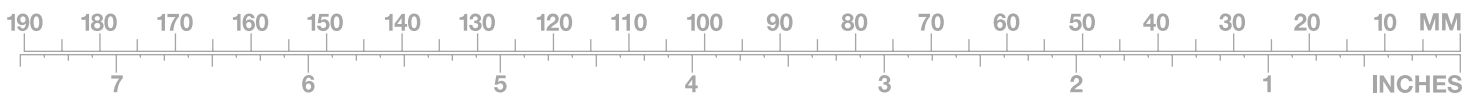


**RS-9292** **MICHEL**  
clip applying forceps  
length 5"



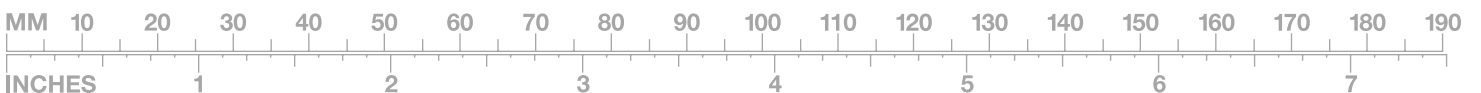
**MICHEL**  
clip applying and  
removing forceps  
length 5"

- RS-9294 use with  
11mm clips
- RS-9295 use with  
7.5mm clips



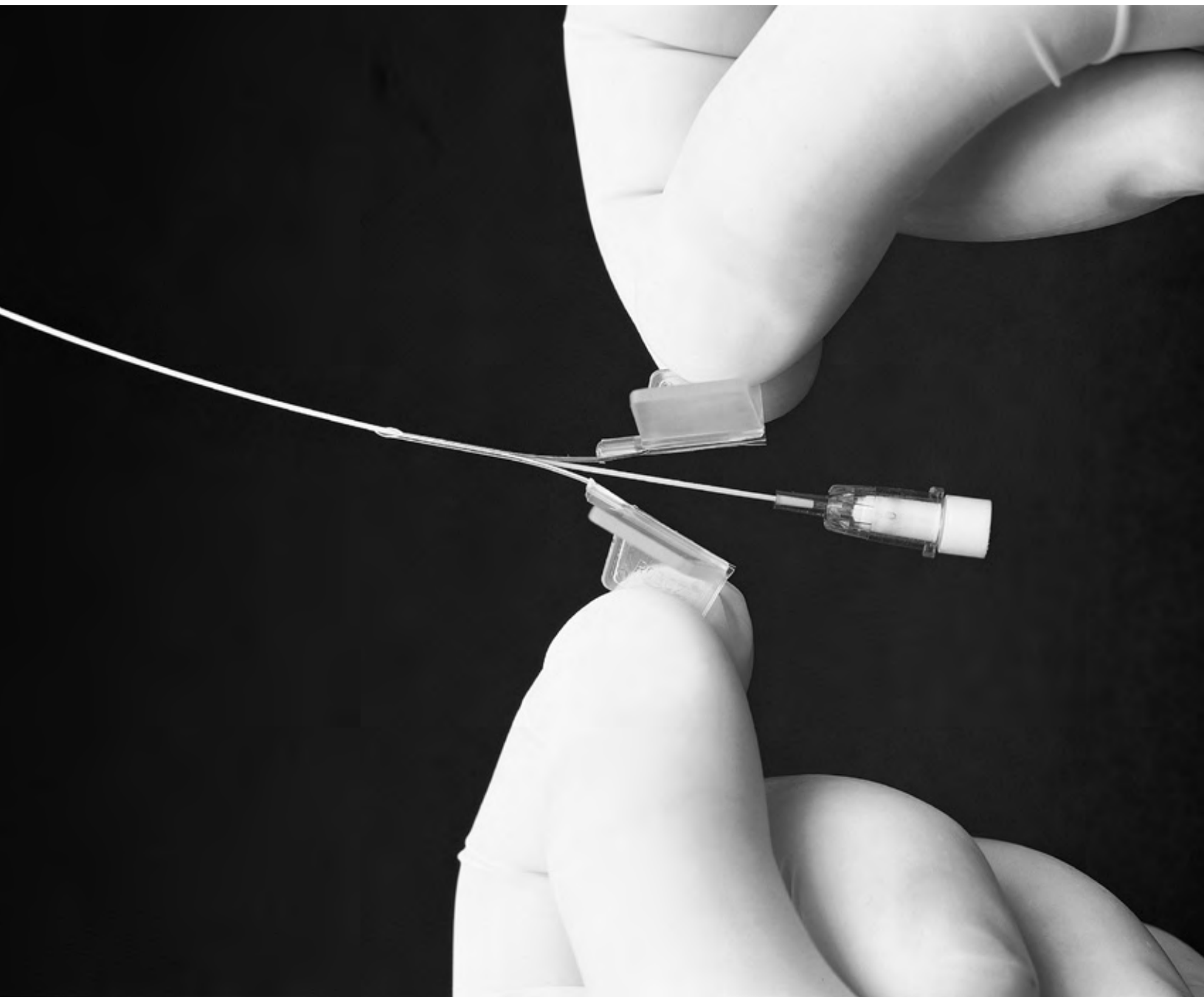
COMPARISON OF MILLIMETERS TO INCHES			
MM	INCHES	MM	INCHES
0.33	.013	6	.236
0.5	.020	6.33	.249
0.67	.026	6.5	.256
1	.039	6.67	.263
1.33	.052	7	.275
1.5	.059	7.33	.288
1.67	.066	7.5	.295
2	.079	7.67	.302
2.33	.092	8	.315
2.5	.098	8.33	.328
2.67	.105	8.5	.335
3	.118	8.67	.341
3.33	.131	9	.354
3.5	.138	9.33	.367
3.67	.144	9.5	.374
4	.157	9.67	.380
4.33	.170	10	.394
4.5	.177	10.33	.407
4.67	.184	10.67	.420
5	.197	11	.433
5.33	.210	11.33	.446
5.5	.216	11.67	.459
5.67	.223	12	.472

COMPARISON OF INCHES TO MILLIMETERS				COMPARISON OF INCHES TO CENTIMETERS		COMPARISON OF CENTIMETERS TO INCHES	
INCHES	MM	INCHES	MM	INCHES	CM	CM	INCHES
1/32	0.79	17/32	13.49	1	2.54	1	.3937
1/16	1.59	9/16	14.29	2	5.08	2	.7874
3/32	2.38	19/32	15.08	3	7.62	3	1.1811
1/8	3.18	5/8	15.88	4	10.16	4	1.5748
5/32	3.97	21/32	16.67	5	12.70	5	1.9685
3/16	4.76	11/16	17.46	6	15.24	6	2.3622
7/32	5.56	23/32	18.26	7	17.78	7	2.7559
1/4	6.35	3/4	19.05	8	20.32	8	3.1496
9/32	7.14	25/32	19.84	9	22.86	9	3.5433
5/16	7.94	13/16	20.64	10	25.40	10	3.9370
11/32	8.73	27/32	21.43	11	27.94	20	7.8740
3/8	9.53	7/8	22.22	12	30.48	30	11.8110
13/32	10.32	29/32	23.02	13	33.02	40	15.7480
7/16	11.11	15/16	23.81	14	35.56		
15/32	11.91	31/32	24.61	15	38.10		
1/2	12.07	1"	25.40				





# Vascular Access





RS-4990

**Vessel Cannulation Forceps**

for tubing of  
 .35mm OD  
 length 131mm  
 tip width .75mm  
 tip diameter .35mm  
 Material: INOX



RS-4991

**Vessel Cannulation Forceps**

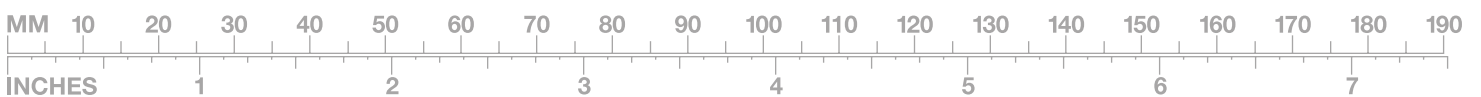
for tubing of  
 .5mm OD  
 length 130mm  
 tip width .9mm  
 tip diameter .5mm  
 Material: INOX



RS-4992

**Vessel Cannulation Forceps**

for tubing of  
 1.0mm OD  
 length 128mm  
 tip width 1.4mm  
 tip diameter 1.0mm  
 Material: INOX



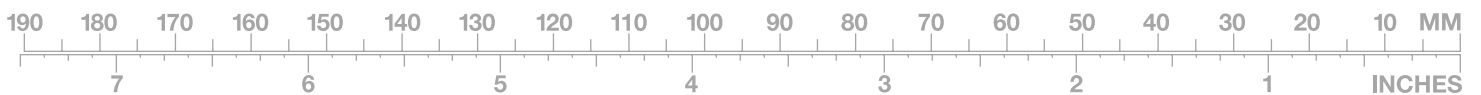
**RS-4927**      **Vessel Dilation Forceps**  
 length 120mm  
 tip .20 x .16mm  
 Material: INOX



**RS-4929**      **Vessel Dilation Forceps**  
 length 115mm  
 tip .20 x .16mm  
 Material: INOX



**RS-4942**      **Vessel Dilation Forceps**  
 length 135mm  
 tip .20 x .16mm  
 Material: INOX



- IN-10** Polyethylene Tubing, 10ft Lengths, .011" ID x .024" OD
- IN-10N** Intro needle, sterile, 1", 19G, .027" ID x .042" OD
- PN-7922** Infusion Cannula, blunt, 1", 30G, .006" ID x .012" OD
- IN-20** Polyethylene Tubing, 10ft Lengths, .015" ID x .043" OD
- IN-50N** Intro needle sterile, 1", 16G, .047" ID x .065" OD
- PN-7925** Infusion Cannula, blunt, 1", 27G, .0075" ID x .016" OD
- IN-50** Polyethylene Tubing, .023" ID x .038" OD, 10ft Lengths
- IN-50N** Intro needle, sterile, 1", 16G, .047" ID x .065" OD
- PN-7930** Infusion Cannula, blunt, 1", 24G, .0115" ID x .022" OD

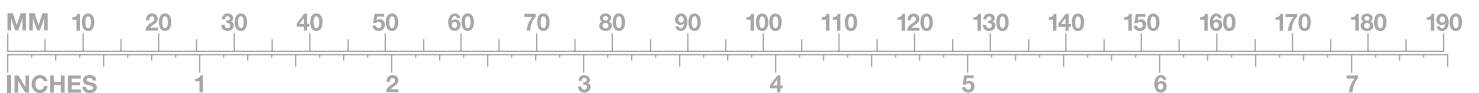


Not Actual Size

- PN-7922** Pipet/Infusion Needle, 30G, length 1"
- PN-7925** Pipet/Infusion Needle, 27G, length 1"
- PN-7930** Pipet/Infusion Needle, 24G, length 1"
- PN-7933** Pipet/Infusion Needle, 20G, length 4"
- PN-7936** Pipet/Infusion Needle, 18G, length 4"
- PN-7939** Pipet/Infusion Needle, 16G, length 4"
- PN-7941** Pipet/Infusion Needle, 14G, length 4"



- RS-5255** **SINGLEY**  
organ holding forceps  
length 6"



**IN-517**      **Splitable Introducer Cannula**  
 17G x 22mm  
 OD 1.50mm  
 ID 1.34mm  
 red  
 Pack of 10

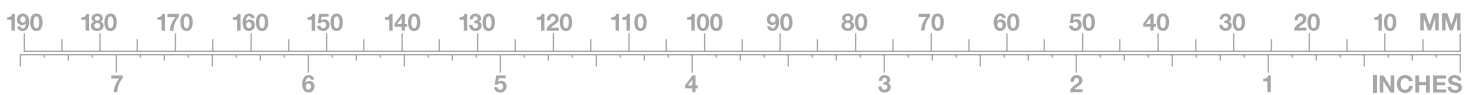
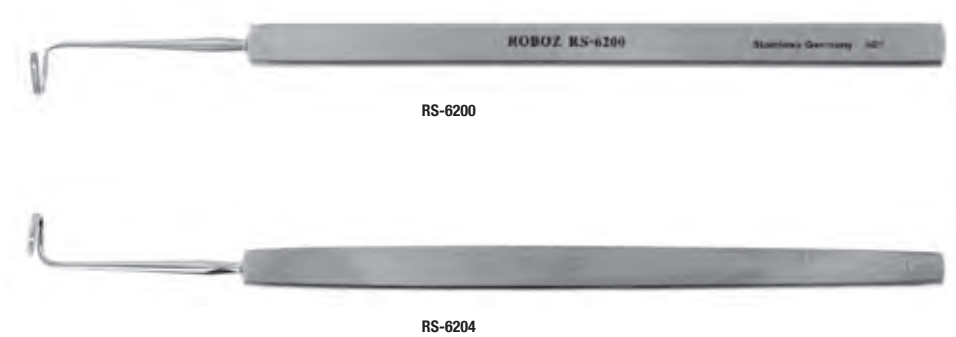


**IN-520**      **Splitable Introducer Cannula**  
 20G x 17mm  
 OD 0.95mm  
 ID 0.75mm  
 green  
 Pack of 10



**Micro Ligature Needle**  
 length 4.75"

- RS-6200**      blunt, left curve
- RS-6202**      sharp, left curve
- RS-6204**      blunt, right curve



**32 ga micro injection needles uses:**

- portal vein injections
- thymus injections
- bile duct injections
- blood/fluid extractions

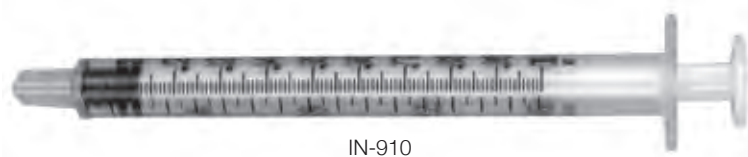
**Advantages:**

- potential for clotting is reduced
- reduces trauma
- greater control of injection site
- greater volume control



**Micro Injection Needle**  
 .009" OD x .003" ID  
 32G  
 needle length 10mm  
 use with IN-910

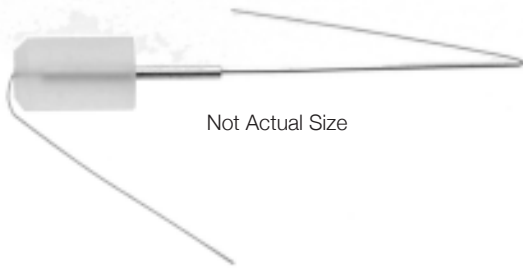
- IN-900** straight
- IN-905** 45 deg angle



IN-910

**Syringe**  
 plastic  
 for use with IN-900  
 and IN-905 needles

- IN-910** Volume 1mL
- IN-920** Volume 10mL



Not Actual Size

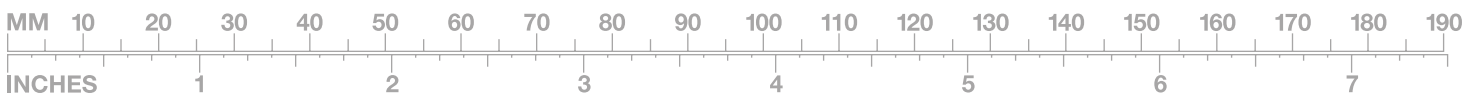
**Micro Injection Needle**  
 needle length 12mm  
 use with IN-950

- IN-940** straight  
32G  
20deg bevel
- IN-941** 32G  
blunt
- IN-942** 33G  
20deg bevel



IN-950

- IN-950** **Syringe**  
 glass  
 5 microliters  
 for use with IN-940  
 needles





**Specifications**

Pump Type	Infusion
Max.No. Syringes	One
Syringe Size	.5µL to 60mL
Linear Force	22lbs.
Min Flow Rate	> .1µL/hr
Max Flow Rate	8.87mL/min
Accuracy	± 3%
Reproducibility	± 1%
Power	9Volt DC @ 1000mA
Dimensions	9.0" x 5.75" x 4.93"
Weight	3.9 lbs.
Steps per Revolution	400

**IN-1000 Advance Infusion Pump**

The **Advance Infusion Pump Series 1200** is a simple, accurate, affordable single syringe pump. Easily input the syringe diameter, volume, and time into the large number keypad that no other pump on the market has and let Advance do the rest.

No need to scroll through long lists of syringe sizes and infusion rates again with Advance!

**IN-1010 Advance Infusion Table**

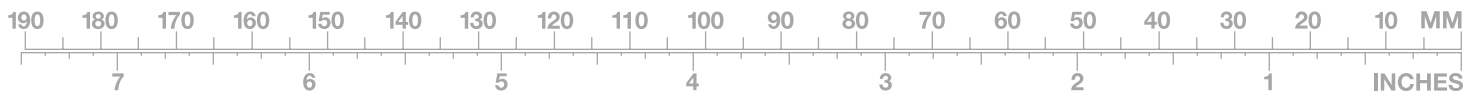
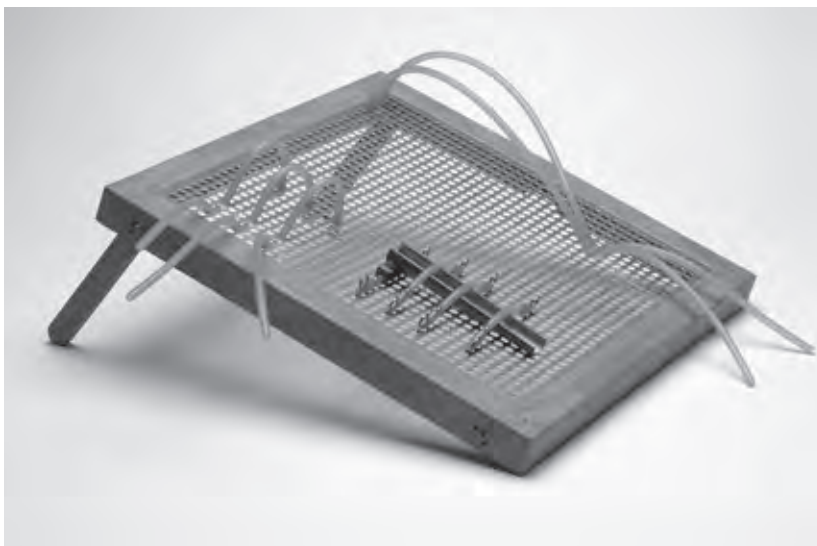
The **Advance Infusion Table** is the latest design in tail infusions for rats. This unique setup allows for tail infusions lasting up to three hours.

**Features**

- 4 folding legs for optional angled display and compact storage
- Easy customization using the silicone tubing and perforated table top
- Cage washable

**Dimensions**

15 3/4" x 15 3/4" (40cm x 40cm) square table top  
 Height with legs open, 6 1/2" (16.5cm)



COMPARISON OF MILLIMETERS TO INCHES			
MM	INCHES	MM	INCHES
0.33	.013	6	.236
0.5	.020	6.33	.249
0.67	.026	6.5	.256
1	.039	6.67	.263
1.33	.052	7	.275
1.5	.059	7.33	.288
1.67	.066	7.5	.295
2	.079	7.67	.302
2.33	.092	8	.315
2.5	.098	8.33	.328
2.67	.105	8.5	.335
3	.118	8.67	.341
3.33	.131	9	.354
3.5	.138	9.33	.367
3.67	.144	9.5	.374
4	.157	9.67	.380
4.33	.170	10	.394
4.5	.177	10.33	.407
4.67	.184	10.67	.420
5	.197	11	.433
5.33	.210	11.33	.446
5.5	.216	11.67	.459
5.67	.223	12	.472

COMPARISON OF INCHES TO MILLIMETERS				COMPARISON OF INCHES TO CENTIMETERS		COMPARISON OF CENTIMETERS TO INCHES	
INCHES	MM	INCHES	MM	INCHES	CM	CM	INCHES
1/32	0.79	17/32	13.49	1	2.54	1	.3937
1/16	1.59	9/16	14.29	2	5.08	2	.7874
3/32	2.38	19/32	15.08	3	7.62	3	1.1811
1/8	3.18	5/8	15.88	4	10.16	4	1.5748
5/32	3.97	21/32	16.67	5	12.70	5	1.9685
3/16	4.76	11/16	17.46	6	15.24	6	2.3622
7/32	5.56	23/32	18.26	7	17.78	7	2.7559
1/4	6.35	3/4	19.05	8	20.32	8	3.1496
9/32	7.14	25/32	19.84	9	22.86	9	3.5433
5/16	7.94	13/16	20.64	10	25.40	10	3.9370
11/32	8.73	27/32	21.43	11	27.94	20	7.8740
3/8	9.53	7/8	22.22	12	30.48	30	11.8110
13/32	10.32	29/32	23.02	13	33.02	40	15.7480
7/16	11.11	15/16	23.81	14	35.56		
15/32	11.91	31/32	24.61	15	38.10		
1/2	12.07	1"	25.40				





# Instrument Care and Handling





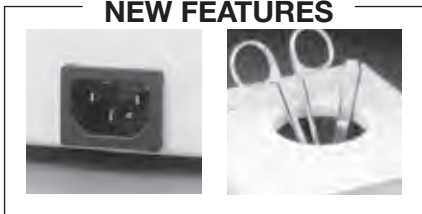
U.L. Listed

**GERMINATOR™**  
**500** THE GERM TERMINATOR  
 DRY STERILIZER

Effective when rapid decontamination of micro-dissecting instruments is needed.

The GERMINATOR 500 is a simple, inexpensive way to quickly decontaminate your micro-dissecting instruments between procedures. The unique stainless steel glass bead bath remains at a constant 500 degrees F, allowing you to insert the tips of your instruments whenever you wish to decontaminate them. And it's fast...most micro-dissecting instruments decontaminate within 15 seconds! No messy chemicals and no need for open flames in the lab.

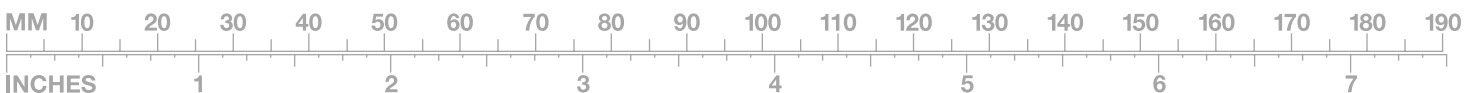
**NEW FEATURES**



- DS-400**      **Replacement Glass Beads**  
 12.5 oz. bag  
 for use with DS-401
- DS-401**      **Instrument Sterilizer**  
 dry, glass bead
- DS-501**      **International Version**  
 Instrument Sterilizer  
 dry, glass bead

**CE** 220-240V AC units with country-specific power cords also available for our international customers. Contact customer service for part numbers.

US Patent 6,500,394



## SENTRY ULTRASONIC SURGICAL INSTRUMENT CLEANER

*Clean your instruments easily with a high-power ultrasonic cleaner*

The **Sentry Ultrasonic Cleaner** is a high-efficiency cleaner specially developed to clean surgical instruments. The **Sentry Ultrasonic Cleaner** is a quick and effective way to clean lab tools using ultrasonic waves that pump micron-sized bubbles into the water. These bubbles fit into the tightest spaces which would be impossible to clean by traditional methods. When the bubbles implode, water hits the instrument at speeds up to 250 mph – providing a very powerful cleaning action.

A digital control panel simplifies operations. Cleaning cycles are preset and optimized for the most efficient cleaning of your surgical instruments.



### YOUR BENEFITS

#### Effective Cleaning with Optional Heat Setting

The Sentry Ultrasonic Cleaner uses a powerful generator to create ultrasonic waves that provide effective cleaning action. When heavy bio-burden or oily residue is present, the Sentry's cleaning power can be enhanced with a heating feature that warms water up to 65°C.

#### High-Capacity Elongated Tank

The elongated tank easily accommodates long surgical instruments and other lab equipment that may not fit into smaller desktop ultrasonic cleaners.

#### Quiet Operation\*

The Sentry operates quietly without disrupting work in the laboratory. The tank has a lid to decrease noise and includes a viewing window that enables the user to monitor progress.

#### Small Footprint

This compact cleaner takes up little space for convenient storage on the lab bench. Its light weight makes for easy transport or for storage if bench space needs to be quickly cleared.

\*Warning: Ultrasonic sound waves emitted by this cleaner may disturb laboratory animals

### Specifications:

Item Number: **RS-9911**

**Voltage Rating & Frequency:** AC100-120V-50/60 Hz

**Power Consumption:** AC100-120V-160W

**Ultrasonic Frequency:** 42,000 Hz

**Tank Material:** Stainless Steel SUS304

**Plastic Housing Material:** ABS 757

**Tank Size:** 25 x150x80 mm; 9.84 Lx5.90 x3.15 H in.

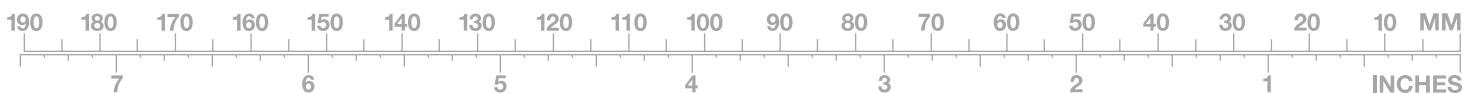
**Tank Capacity:** 2500 ml (5.29 pt) (MAX-) 2100 ml 4.44 pt (MIN-) 600 ml 1.27 pt

**Accessories:** Plastic tray; power cord

**5-Cycle Digital Timer:** 15 m – 20 m – 25 m – 30 m – 10 m

**Net Weight:** 2.5 kg

**Warranty:** One year



## SENTRY AUTOCLAVES

*Easy to use, compact bench-top autoclave sterilizers*



The Sentry autoclave steam sterilizers are compact, easy to use, and perfect for any lab. They are available in 8L and 16L sizes, and come with everything you need to sterilize your surgical instruments and labware without leaving your work space. These autoclaves feature convenient preset cycles and automatic operation which starts at the press of a button. Each unit includes stainless steel trays and tray rack, tray removal handle, draining hoses, spare door seal, and replacement fuses.

### RS-9800

#### Sentry Autoclave 8L Unit

- Perfect for basic sterilization needs
- Two temperature settings - 120°C & 134°C
- Small footprint perfect for compact spaces
- Internal water reservoirs do not require connection water source
- Full sterilization cycle at the push of a button

#### Specifications:

**Chamber Volume:** 8L

**Max. Pressure:** 29 PSI/2 Bar

**Chamber Dimensions:** 6.7 x 12.5" (17 x 31 cm)

**Tray Dimensions:** 4.75 x 9.75" (12 x 24.8 cm)

**Exterior Dimensions:** 21 x 13.4 x 13.5" (53 x 34 x 34.5 cm)

**Weight:** 76 Lb. (34.5kg)

**Electrical:** 115V, 60Hz, 950W

### RS-9801

#### Sentry Autoclave 16L Unit

- 4 automatic cycle options for wrapped and unwrapped solids, plastics, and textiles
- Adjustable temperature and cycle time settings
- Large 9" x 14" chamber size
- Internal water reservoirs do not require connection to water source
- Small footprint perfect for compact spaces

#### Specifications:

**Chamber Volume:** 16L

**Max. Pressure:** 29 PSI/2 Bar

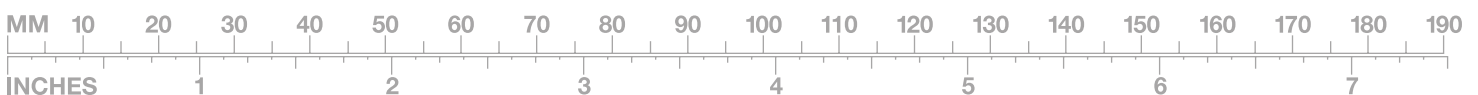
**Chamber Dimensions:** 9 x 14" (23 x 36 cm)

**Tray Dimensions:** 6.5 x 11" (16.5 x 28 cm)

**Exterior Dimensions:** 23.2 x 17.5 x 15.7" (59 x 44.5 x 40 cm)

**Weight:** 99 Lb. (45kg)

**Electrical:** 115V, 60Hz, 950W

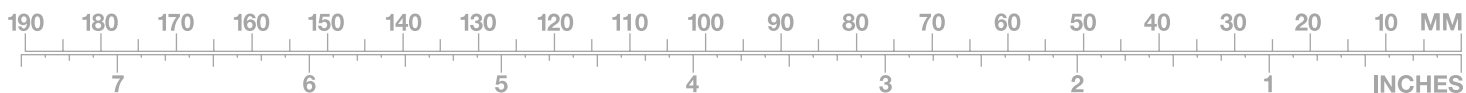




Protect your surgical instrument investment with Roboz's Roll-Pak. Store your instruments inside the Roll-Pak between uses. Transport your instruments from lab to lab. Protect your instruments from damage by placing one instrument per slot. Organize packs or types of instruments by placing one group or type in their own Roll-Pak.

#### Roll-Pak

<b>RS-9960</b>	holds 5 instruments
<b>RS-9962</b>	holds 12 instruments
<b>RS-9964</b>	holds 18 instruments





Provides excellent steam sterilization without moisture build up.  
RT-1402S, RT-1400S and RT-1400L Shown

With a long-lasting electropolished finish and heavy gauge stainless steel, Roboz trays are ideal for the harsh environment of today's autoclave. If you prefer chemical sterilization, these trays are built to withstand repeated cold chemical soaks. You can create a closed draining container for cleaning, rinsing, sterilizing, or lubricating your instruments by using a shallow perforated tray together with a deeper solid tray. These trays also make excellent separation containers for the organizing, storage, and protection of your valuable instruments. Remember to always follow proper procedures when sterilizing your instruments.

**Lids sold separately.**

	<b>Instrument Tray</b> dimensions 10x6 <sup>1/2</sup> x3/4"
<b>RT-1350S</b>	solid
	<b>Instrument Tray</b> dimensions 13 <sup>1/2</sup> x9 <sup>3/4</sup> x3/4"
<b>RT-1351S</b>	solid
	<b>Instrument Tray</b> dimensions 9"x5x2"
<b>RT-1400S</b>	solid
<b>RT-1400P</b>	perforated
<b>RT-1400L</b>	lid dimensions 9x5"
	<b>Instrument Tray</b> dimensions 10x6 <sup>1/2</sup> x2"
<b>RT-1401S</b>	solid
<b>RT-1401P</b>	perforated
<b>RT-1401L</b>	lid dimensions 10x6 <sup>1/2</sup> "
	<b>Instrument Tray</b> dimensions 12 <sup>1/4</sup> x7 <sup>3/4</sup> x2 <sup>1/4</sup> "
<b>RT-1402S</b>	solid
<b>RT-1402P</b>	perforated
<b>RT-1402L</b>	lid dimensions 12 <sup>1/4</sup> x7 <sup>3/4</sup> "





Sentry Instrument Cases are an effective way of protecting delicate surgical instruments during sterilization.

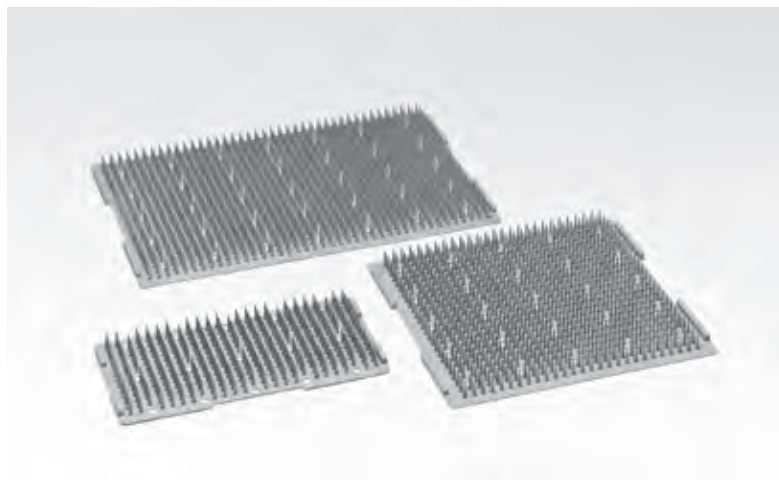
- Interlocking silicone keep instruments in place
- Available with silicone mat, perfect for micro dissecting instruments
- Removable cover for easy cleaning

<b>RS-9900</b>	8" x 8 <sup>1</sup> / <sub>2</sub> " x 1 <sup>1</sup> / <sub>4</sub> " with silicone strips
<b>RS-9900A</b>	8" x 8 <sup>1</sup> / <sub>2</sub> " x 1 <sup>1</sup> / <sub>4</sub> " with silicone strips and mat
<b>RS-9902</b>	8" x 12 <sup>1</sup> / <sub>2</sub> " x 1 <sup>1</sup> / <sub>4</sub> " with silicone strips
<b>RS-9902A</b>	8" x 12 <sup>1</sup> / <sub>2</sub> " x 1 <sup>1</sup> / <sub>4</sub> " with silicone strips and mat

Protect your delicate surgical instruments during autoclaving with the cost effective Sentry Instrument Trays.

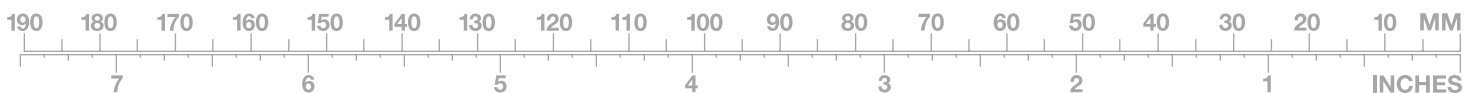
- Light Weight
- Interlocking silicone strips keep instruments in place
- Made of durable Ultem 1000 Plastic

<b>RS-9912</b>	8" x 4" x 1 <sup>1</sup> / <sub>4</sub> " with silicone strips
<b>RS-9910</b>	8 <sup>1</sup> / <sub>4</sub> " x 8 <sup>1</sup> / <sub>4</sub> " x 1 <sup>1</sup> / <sub>4</sub> " with silicone strips
<b>RS-9913</b>	8 <sup>1</sup> / <sub>4</sub> " x 15" x 1 <sup>1</sup> / <sub>4</sub> " with silicone strips



Silicone instrument mats can be used to cushion and protect delicate surgical instruments during procedures, or sterilization. Sized to fit Sentry sterilizing cases and trays.

<b>RS-9904</b>	8" x 4" silicone mat
<b>RS-9901</b>	8" x 8 <sup>1</sup> / <sub>2</sub> " silicone mat
<b>RS-9903</b>	8 <sup>1</sup> / <sub>4</sub> " x 15" silicone mat



**Stainless Forceps Jar**

- RS-9905 4" x 1"
- RS-9906 4.5" x 2"
- RS-9907 7.5" x 2"



RS-9907

**Silicone Instrument Cup**

- RS-9908 4" deep
- RS-9909 2.5" deep



RS-9908

- IC-1000 **Roboz Instrument Cleaner**  
8 oz. Concentrated

- IL-1000 **Roboz Instrument Lubricant**  
(Instrument Milk)  
8 oz. spray

- EC-1000 **Roboz Enzymatic Cleaner**  
8 oz. Concentrated



**Instrument Tip Protectors**  
vinyl, pack of 20



- IT-1062 .062" ID, .12" OD length .75", grey
- IT-1080 .08" ID, .14" OD length .75", white
- IT-1109 .109" ID, .18" OD length .75", blue
- IT-1187 .187" ID, .27" OD length 1", black
- IT-1000 assortment Pack 5 of each size



IC-1001

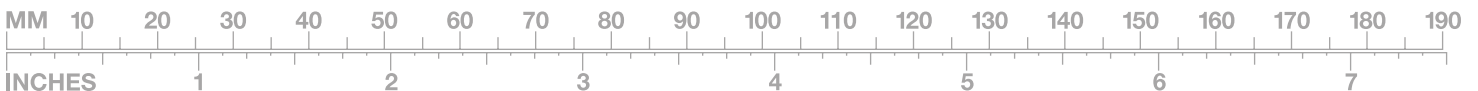
Not Actual Size

- IC-1001 **Double Sided Brush**  
nylon  
length 7"  
pack of 3



IC-1002

- IC-1002 **Micro-Fiber Brushes**  
non-Absorbent  
lint-Free Fibers  
2.0mm Head Size  
length 4"  
pack of 100





Miscellaneous



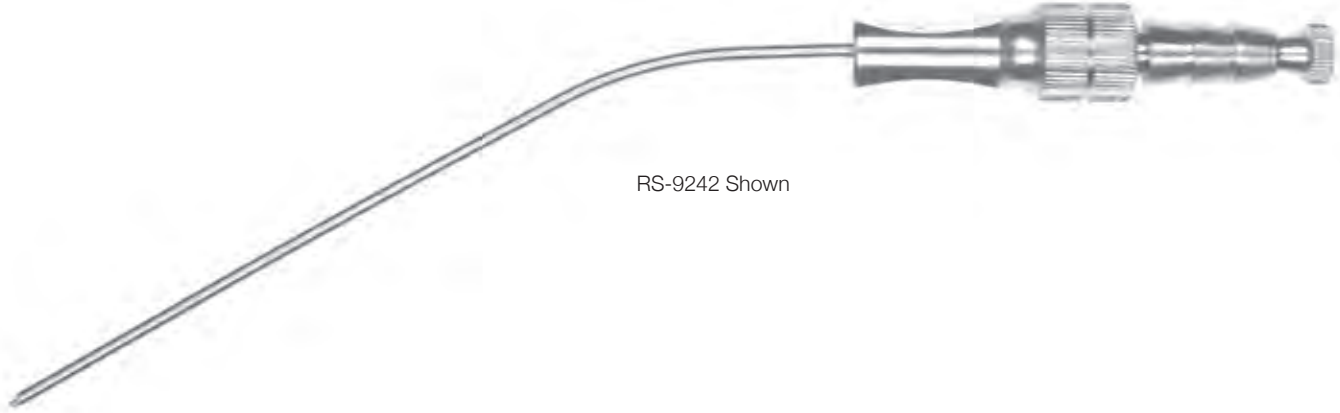
**FRAZIER**  
length 7"

**RS-9242**

suction tube 2.33mm

**RS-9252**

suction tube 4mm



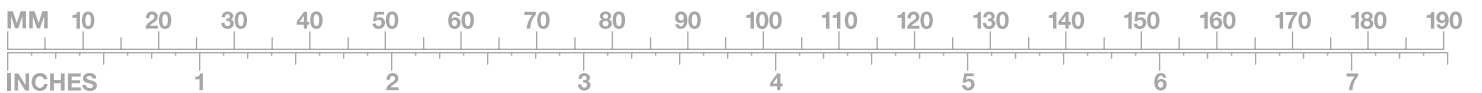
RS-9242 Shown



**ST-1538**

**Durapore™ Surgical Tape**

1/2" x 10 yd,  
pack of 24 rolls



**Binocular Magnifying Loupes**

These light weight magnifying loupes improve your vision and reduce eye, neck, and back fatigue.

4 X magnification loupes reveal incredible detail but come with a small field of view and your working distance has to be maintained more accurately.

Loupes with 2.5 X or 3.5 X magnification let you monitor a broader work area. Because of their greater depth of field, they are less sensitive to changes in your working distance.

Measure the distance between your eyes and the work surface to choose the appropriate working distance. A working distance of 340 mm is usually sufficient for individuals below 5'7" height for working in a sitting position. Loupes with 420 mm focal distance are for those who need more space because of their height or working position.

Our loupes come in a case with a head strap to secure the loupes, a screwdriver for adjustments and a soft cloth for gentle cleaning.

**Binocular magnifying loupes**

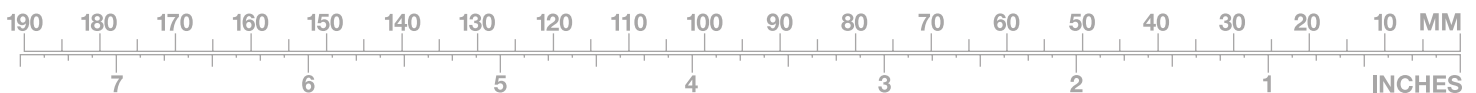
clip-on easily on a pair of glasses (glasses not provided).  
Double hinge, flip-up design.

<b>RS-6690</b>	2.5 X magnification 340 mm (250-375 mm) working distance.
<b>RS-6697</b>	2.5 X magnification 420 mm (300-450 mm) working distance.
<b>RS-6685</b>	3.5 X magnification 340 mm (290-390 mm) working distance.
<b>RS-6686</b>	3.5 X magnification 420 mm working distance.

**Loupes on wire frame without glasses.**

Single hinge angle adjustment.

<b>RS-6691</b>	2.5 X magnification 340 mm (250-375 mm) working distance.
<b>RS-6687</b>	2.5 X magnification 420 mm (330-510 mm) working distance.





RS-6692

**Loupes on wire frame**  
with glasses. Side shield  
provided.  
Double hinge, flip-up  
design.

2.5 X magnification  
340 mm (250-375 mm)  
working distance.

RS-6693

2.5 X magnification  
420 mm (300-450 mm)  
working distance.



RS-6694

**Loupes on wire frame**  
with glasses.  
Double hinge, flip-up  
design.

4 X magnification  
340 mm (325-375 mm)  
working distance.

RS-6698

4 X magnification  
420 mm (375-450 mm)  
working distance.



RS-6695

**Super bright LED light for loupes.**

6000 K (pure white) color  
11 g weight  
Runs for up to 7 hours on  
batteries or may be  
operated from AC power  
supply

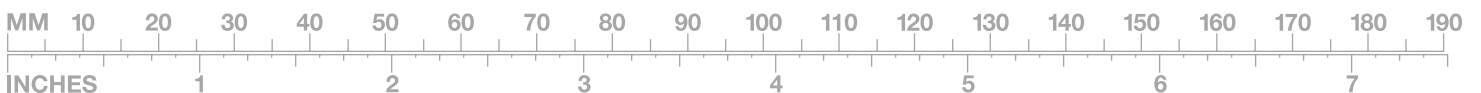
RS-6699

LED Light  
for use with clip-on loupes



RS-6696

**Replacement eyeglasses**  
cord to prevent eyeglasses  
with loupes from sliding or  
falling down.  
Adjusts to head size with  
sliding lock.





- RS-300**      **Gemini Two Temperature Cautery**  
Kit contains:  
handle and 2x - 5mm tips  
and 2x - 10mm tips
- RS-301**      5mm replacement tips  
pack of 10
- RS-302**      10mm replacement tips  
pack of 10

**TECHNICAL DATA:**

Length (without tip): 160.75mm

Weight (with two AA batteries): 78g

Electrical: 3 volts, 1.5 volts

Tip Sizes: 5mm, 10mm



RS-302



RS-301

The GEMINI CAUTERY SYSTEM is the perfect tool for your cauterizing needs.

The unique tip sizes combined with two different operating temperatures allow for maximum versatility. The convenient battery spacer converts the hand piece from high temperature to low temperature. Average temperature with two batteries 2200°F/1204°C and 1300°F/704°C with battery spacer.

The Gemini Cautery Unit has the following features:

- Simple tip design for easy replacement
- Uses standard AA batteries
- Easy screw cap for convenient battery replacement
- Hard plastic case with die cut foam for convenient storage
- Battery spacer for optional temperature operation
- One year warranty



- RC-5902**      **Disposable Clipper**  
with charger and two  
blades  
hair length 1/16"

- RC-5902RB**      pack of five disposable  
blades





Not Actual Size

**RC-5903 Mini-Clipper**  
with no. 0000 blade  
hair length 1/125"  
UL Listed. Operates on  
120 volts AC, weight  
20 oz., Insulated 8 ft. cord,  
double insulated unit.

**RC-5903-RB** Replacement blade  
for RC-5903



Not Actual Size

**RC-5904 Cordless/Rechargeable Clipper**  
with no. 0000 blade  
hair length 1/125"  
UL Listed. Operates on  
battery or cord. Comes  
with recharging unit and  
8 ft. cord. weight 1.2 lbs.

**RC-5904RB** Replacement blade  
for RC-5904  
(unit shown)

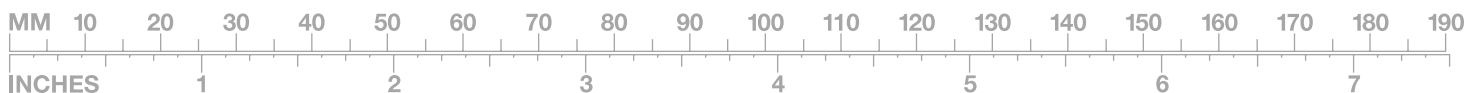


RS-5905 Shown  
Not Actual Size

**A-5 Clipper with detachable blade**  
**RC-5905** with No. 10 blade  
**RC-5906** with No. 50 blade  
UL Listed. Operates on  
120 volts AC weight  
26 oz. This clipper  
is double insulated  
and meets OSHA  
specifications.

**A-5 replacement blades**

**RC-5910** medium-general  
hair length 1/16"  
size 10  
**RC-5911** for clipping surgical area  
hair length 1/100"  
size 40  
**RC-5912** for clipping surgical area  
hair length 1/125"  
size 50  
**RC-5920** Spray Disinfectant, 14 oz.  
**RC-5921** Spray Lubricant, 16 oz.





**Disposable Feeding Needles**

plastic ball & hub malleable cannula, shipped in boxes of 5

- Cat. # Gauge & Length
- FN-9921** 20G - 1.5" - straight
- FN-9918** 18G - 2" - straight

**REUSEABLE FEEDING NEEDLES**

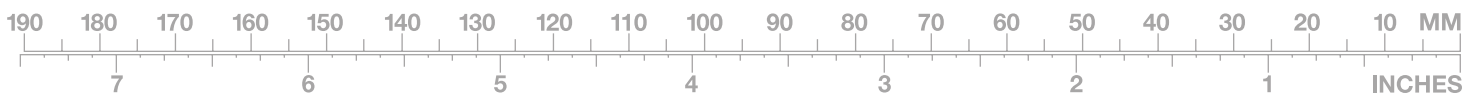
*Stainless Steel*

CAT. #	GAUGE & LENGTH	BALL DIAMETER
STRAIGHT		
<b>FN-7900</b>	24G - 1"	1.25mm
<b>FN-7901</b>	22G - 1"	1.25mm
<b>FN-7920</b>	22G - 1.5"	1.25mm
<b>FN-7921</b>	20G - 1"	2.25mm
<b>FN-7903</b>	20G - 3"	2.25mm
<b>FN-7905</b>	18G - 2"	2.25mm
<b>FN-7906</b>	18G - 3"	2.25mm
<b>FN-7908</b>	16G - 3"	3mm
<b>FN-7909</b>	14G - 3"	4mm
<b>FN-7944</b>	20G - 1.5"	2.25mm Malleable
CURVED		
<b>FN-7910</b>	20G - 1.5"	2.25mm
<b>FN-7911</b>	20G - 3"	2.25mm
<b>FN-7913</b>	18G - 2"	2.25mm
<b>FN-7914</b>	18G - 3"	2.25mm
<b>FN-7916</b>	16G - 3"	3mm
<b>FN-7917</b>	14G - 3"	4mm

**REUSEABLE FEEDING NEEDLES**

*Size Recommendations*

SPECIES	WT. RANGE IN GRAMS	GAUGE	LENGTH	BALL DIAMETER	SHAPE
MICE	To 14g	24G	1"	1.25mm	straight
	15-20g	22G	1",1.5"	1.25mm	straight
	20-25g	20G	1",1.5",3"	2.25mm	straight,curved
	25-30g	18G	1",1.5",2"	2.25mm	straight,curved
	30-35g	18G	2",3"	2.25mm	straight,curved
RATS	50-75g	20G	1",1.5"	2.25mm	straight
	75-120g	18G	1",1.5"	2.25mm	straight,curved
	100-200g	18G	2",3"	2.25mm	curved
		16G	2"	3mm	straight,curved
	150-300g	16G	3",4"	3mm	curved
		14G	3"	4mm	curved
200-350g	13G	3"	4mm	straight	
HAMSTERS	60-200g	18G	2"	2.25mm	curved
GUINEA PIGS	250-300g	18G	1.5",2"	2.25mm	curved
	350-450g	16G	3",4"	3mm	curved
	400-600g	14G	3"	4mm	curved
13G		3"	4mm	straight	
RABBITS	1-3kg	16G	3",4"	3mm	curved
PRIMATES	To 4.5kg	12G	3.5"	6.25mm	curved





65-9800

**Easy Grip Ear Punch**  
1.5mm and 2mm  
hole sizes  
length 6"



65-9900

**Ear Punch**  
2mm  
length 2"



65-9901

**Ear Punch**  
length 4"

65-9902

1mm  
2mm



65-9910

**Micro tattoo system**

65-9911

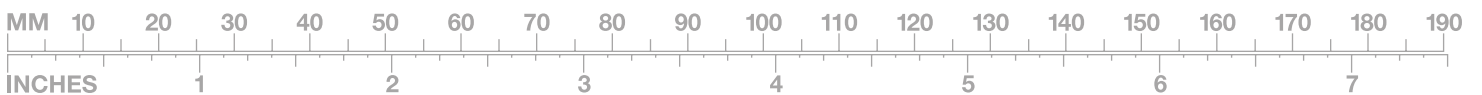
Green paste for  
micro tattoo  
1 oz.

65-9912

Green paste for  
micro tattoo  
5 oz.

IN-527

Hypodermic Needles,  
Sterile, 27G X 0.5  
pack of 100





**Laboratory Animal Identification**

- 65-9913** Ear tag applier seal tags with minimal pressure
- 65-9914** Self piercing ear tag numbers stamped in metal, filled with black



RS-9913 Shown

- RS-5475** **Renal Artery Clamp**  
4mm  
2.5" length



Not Actual Size

- 37-5950** **Chung Hook**  
20mm length  
3mm hook



For use with 37-4312 handle  
Not Actual Size

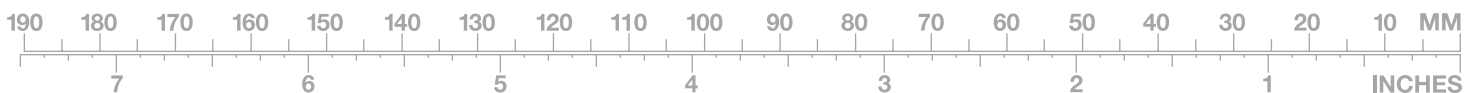
- IN-5** **Sharpening Stone**  
fine 350 grit  
3 grooved sides  
1 flat side  
great for sharpening injection needles  
length 3"

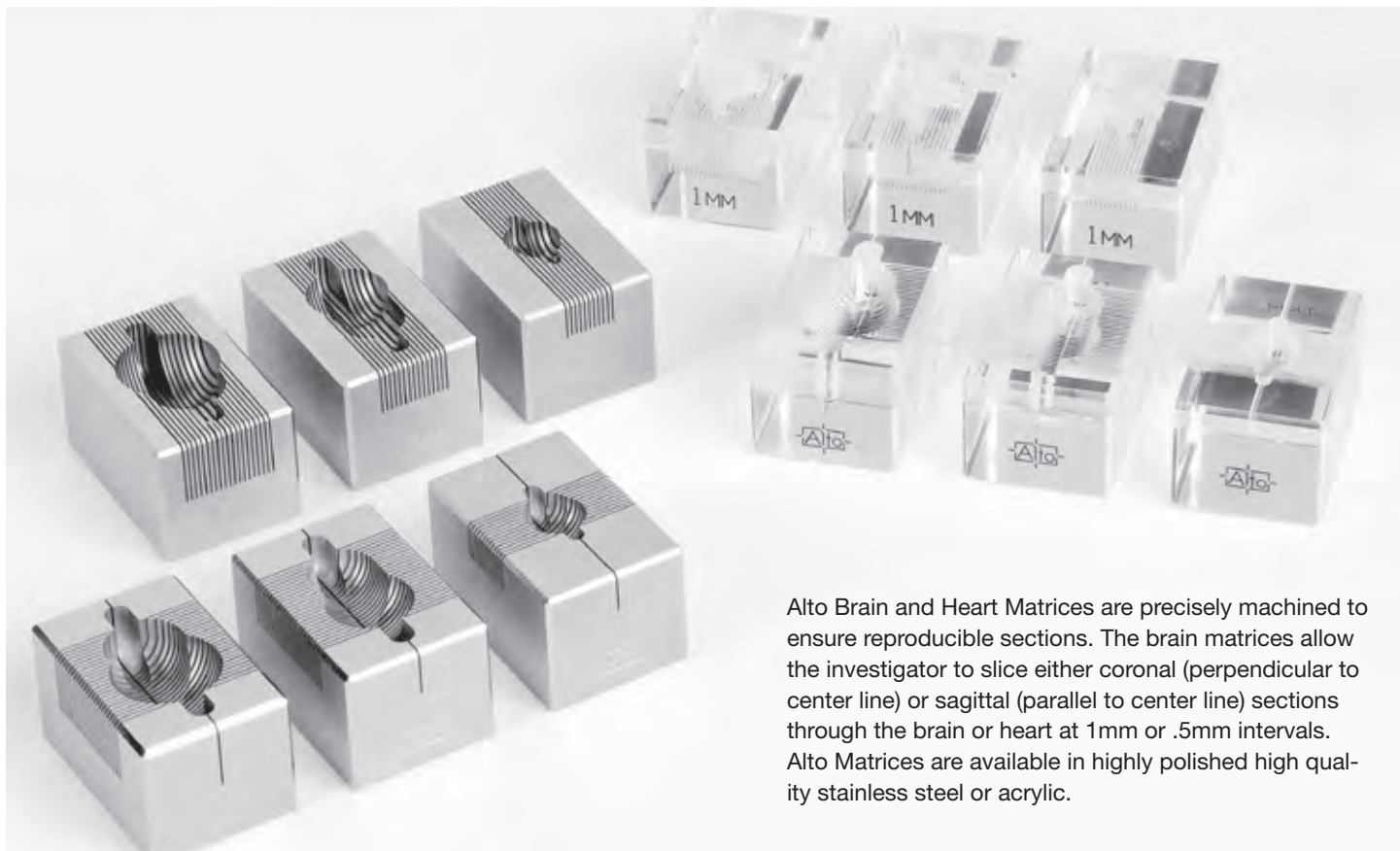


- RS-9950** **TAYLOR**  
percussion hammer  
overall length 7"



Not Actual Size





Alto Brain and Heart Matrices are precisely machined to ensure reproducible sections. The brain matrices allow the investigator to slice either coronal (perpendicular to center line) or sagittal (parallel to center line) sections through the brain or heart at 1mm or .5mm intervals. Alto Matrices are available in highly polished high quality stainless steel or acrylic.

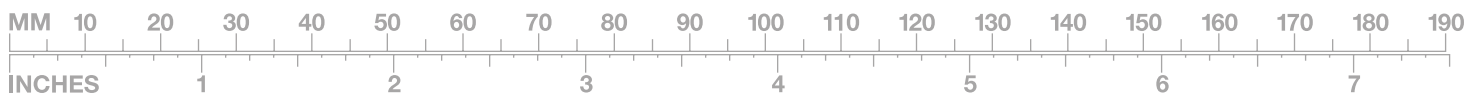
**Slot Thickness 1mm** (see chart on opposite page for dimension references)

Steel	Acrylic	Size	Dimension A	Dimension B	Dimension C	Dimension D	Dimension E	Cavity Depth
SA-2175	AL-1175	Mouse coronal (40-75g)	3.18mm	11.1mm	8.73mm	19.1mm	12.2mm	7.4mm
SA-2275	AL-1275	Mouse sagittal (40-75g)	3.18mm	11.1mm	8.73mm	19.1mm	12.2mm	7.4mm
SA-2130	AL-1130	Small rat coronal (175-300g)	4.76mm	15.9mm	12.7mm	36.6mm	23.8mm	7.61mm
SA-2230	AL-1230	Small rat sagittal (175-300g)	4.76mm	15.9mm	12.7mm	36.6mm	23.8mm	7.61mm
SA-2160	AL-1160	Large rat coronal (300-600g)	4.76mm	19.8mm	14.7mm	36.6mm	24.7mm	10.91mm
SA-2260	AL-1260	Large rat sagittal (300-600g)	4.76mm	19.8mm	14.7mm	36.6mm	24.7mm	10.91mm
SA-4130	AL-3130	Rat Heart	12.7mm	19.9mm	—	—	—	9.7mm

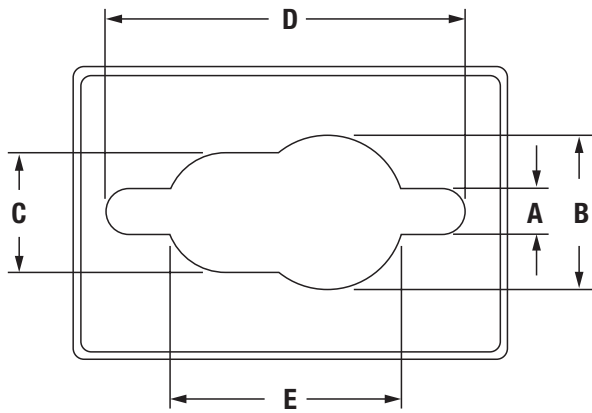
**Slot Thickness .5mm** (see chart on opposite page for dimension references)

Steel	Size	Dimension A	Dimension B	Dimension C	Dimension D	Dimension E	Cavity Depth	
SA-2165	Mouse coronal (40-75g)	3.18mm	11.1mm	8.73mm	19.1mm	12.2mm	7.4mm	
SA-2265	Mouse sagittal (40-75g)	3.18mm	11.1mm	8.73mm	19.1mm	12.2mm	7.4mm	
SA-2120	Small rat coronal (175-300g)	4.76mm	15.9mm	12.7mm	36.6mm	23.8mm	7.61mm	
SA-2150	Large rat coronal (300-600g)	4.76mm	19.8mm	14.7mm	36.6mm	24.7mm	10.91mm	
SA-2220	Small rat sagittal (175-300g)	4.76mm	15.9mm	12.7mm	36.6mm	23.8mm	7.61mm	
SA-2250	Large rat sagittal (300-600g)	4.76mm	19.8mm	14.7mm	36.6mm	24.7mm	10.91mm	
SA-4140	Mouse Heart	8.30mm	12.7mm	—	—	—	4.8mm	
SA-4120	Rat Heart	12.70mm	19.9mm	—	—	—	9.6mm	
RS-9885	Alto Matrix Blade (PK 25) 3"x7.5"	Single edge 0.2286mm thick stainless steel						

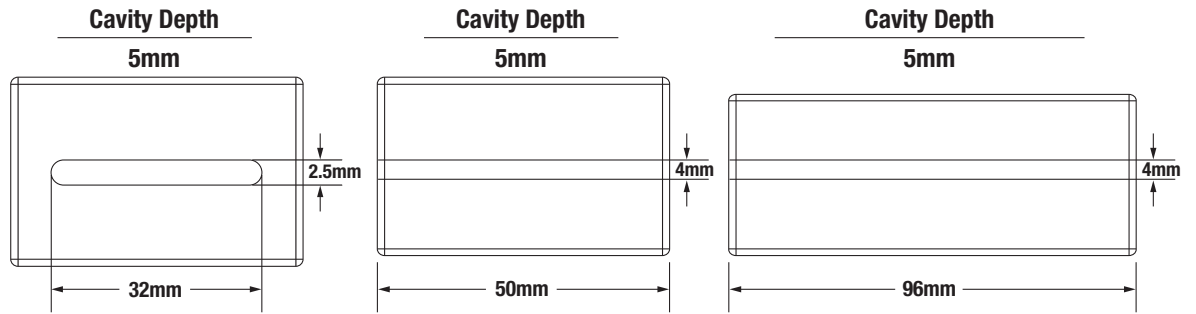
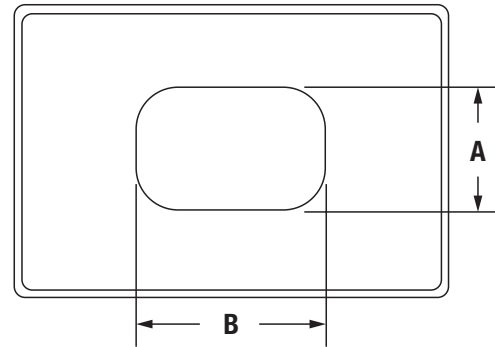
The coronal brain matrices have an additional mid-line sagittal cut to aid in the separation of the left and right hemispheres.



**Brain Matrices**

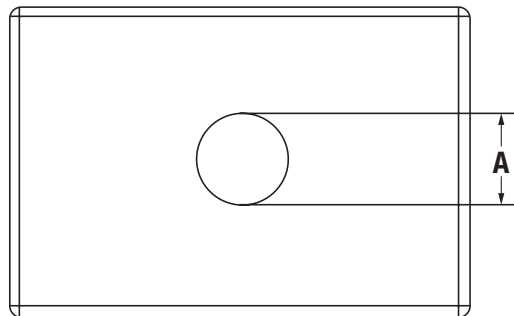


**Heart Matrices**



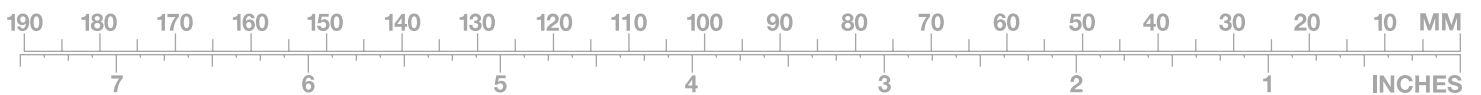
**Spinal Cord Matrices**

0.5mm Steel part#	1mm Steel part#	Description	Cavity Width	Cavity Length	Cavity Depth
N/A	SA-5110	Mouse Spinal Cord	2.5mm	32mm	5mm
SA-5100	N/A	Mouse Spinal Cord	4mm	50mm	5mm
SA-5120	N/A	Rat Spinal Cord	4mm	96mm	5mm



**Tumor Matrices**

0.5mm Steel	Description	Cavity Diameter (A)	Cavity Depth
SA-6110	Small Tumor	8mm	4.8mm
SA-6100	Large Tumor	12mm	4.8mm





RS-9885

**Matrices**

Alto Matrix  
Blades,  
0.22mm thick,  
3" x 7.5"  
pack of 25



RS-9886

**Double edge  
blade**

.1mm thick  
pack of 10  
for use with .5mm  
matrices



**Technical Data:**

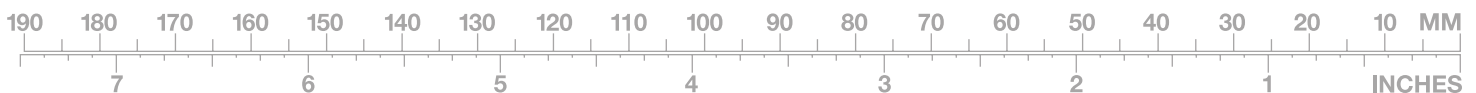
Length: (Without Burr): 17.5 cm  
 Diameter: 1.9 cm  
 Power: 6-Volts DC  
 Speed: 12,000 rpm  
 Stall Torque: 1.25 oz./in.

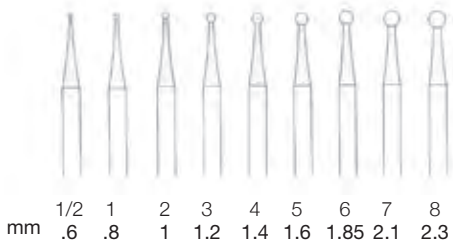
<b>RS-6300</b>	Ideal Micro-Drill
<b>RS-6300-EU</b>	220V EU Version
<b>RS-6300-UK</b>	230/240V UK Version

The **Ideal Micro-Drill™** is designed for research applications that require surgical burrs and trephines. The drill is constructed of light-weight aluminum alloy for balance and control and is powered by a rechargeable 6-volt ni-MH battery. Under normal operating conditions the unit will function for 8 hours between recharging.

The Ideal Micro-Drill™ has the following features:

- Rechargeable
- Light-weight design
- No special tools needed to change burrs
- Hard plastic case with die-cut foam for convenient storage
- Excellent balance and handling
- One year warranty
- Variety of interchangeable burrs





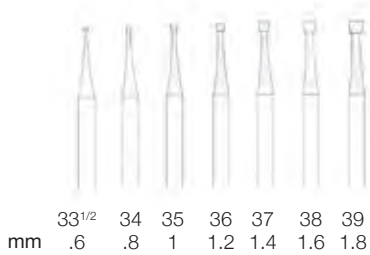
Please specify size when ordering

**RS-6280C**

**Carbide Burrs and Trepines** to be used with Ideal Micro-Drills

**Round**

sizes 1/2 thru 8  
hand piece  
1.75" length  
2.33mm shaft diameter  
pack of 5



Please specify size when ordering

**RS-6282C**

**Inverted Cone**

sizes 33.5 through 39  
hand piece  
1.75" length  
2.33mm shaft diameter  
pack of 5



RS-6308 Shown

**RS-6306**

**RS-6308**

**RS-6310**

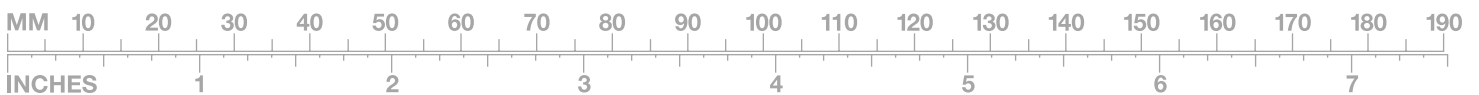
**Trepine**

micro dissecting  
hand piece  
carbide  
2.3mm shaft diameter

tip diameter 1.8mm

tip diameter 2.3mm

tip diameter 2.7mm



# Left-Handed Instruments





RS-5912 Shown

RS-5912L

**Micro Dissecting Scissors**  
 straight, sharp  
 left-handed version  
 blade length 24mm  
 length 4<sup>1/2</sup>"



RS-5913 Shown

RS-5913L

**Micro Dissecting Scissors**  
 curved, sharp  
 left-handed version  
 blade length 24mm  
 length 4<sup>1/2</sup>"



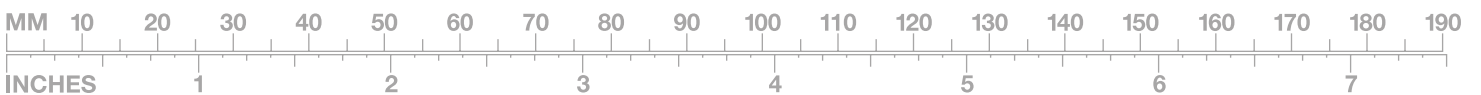
RS-5982L

RS-5983L

**Micro Dissecting Scissors**  
 left-handed version  
 blade length 25mm  
 blunt  
 length 4<sup>1/2</sup>"

straight

curved





RS-6872L

**MAYO Scissors**  
straight  
left-handed version  
blade length 53mm  
length 6<sup>3/4</sup>"



RS-6870 Shown

RS-6952L

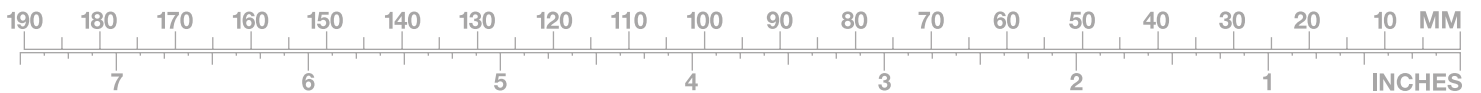
**METZENBAUM**  
scissors  
length 7" (Lahey)  
blade length 35mm  
left-handed version

RS-6953L

straight  
curved



RS-6950 Shown





RS-7110 Shown

RS-7110L

RS-7111L

**HALSTED**  
mosquito forceps  
length 5"  
left-handed version

straight  
curved



RS-7130 Shown

RS-7130L

RS-7131L

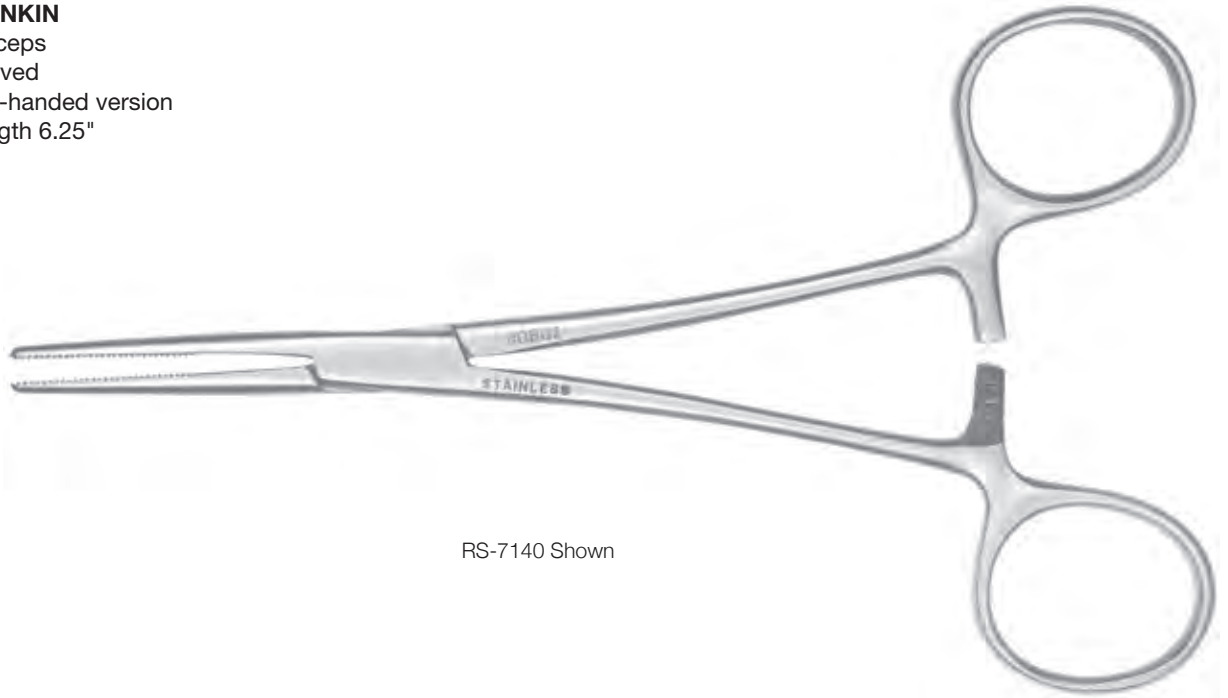
**KELLY**  
hemostatic forceps  
length 5<sup>1/2</sup>"  
left-handed version

straight  
curved



RS-7141L

**RANKIN**  
forceps  
curved  
left-handed version  
length 6.25"



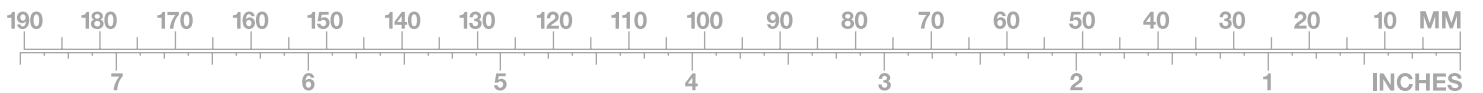
RS-7140 Shown

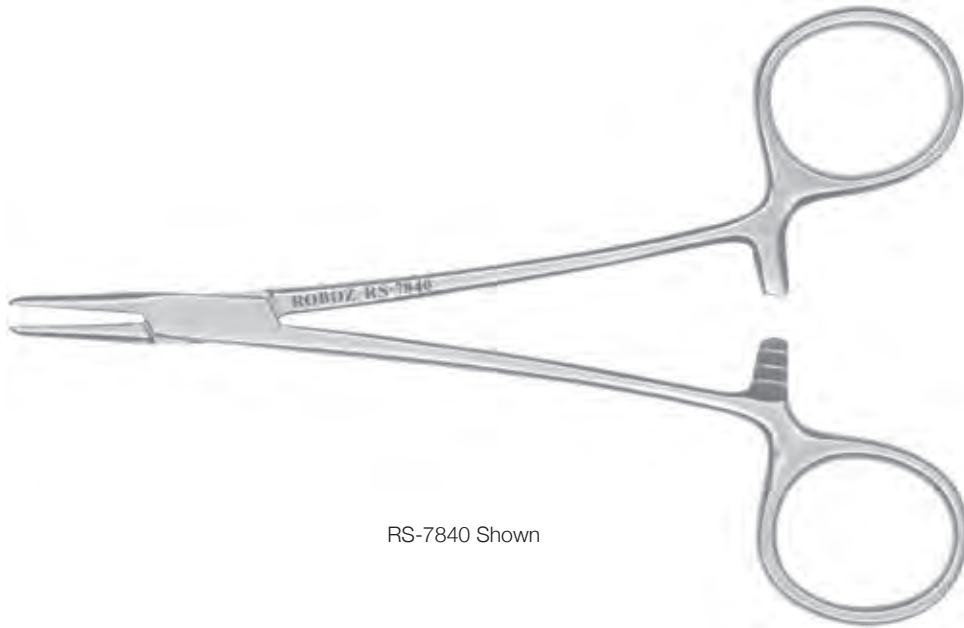
RS-7177L

**ROCHESTER-PEAN**  
forceps  
curved  
left-handed version  
length 7.25"



RS-7172 Shown

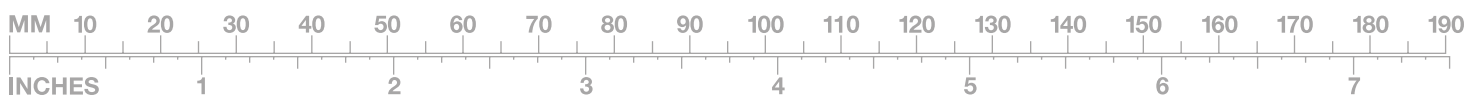




RS-7840 Shown

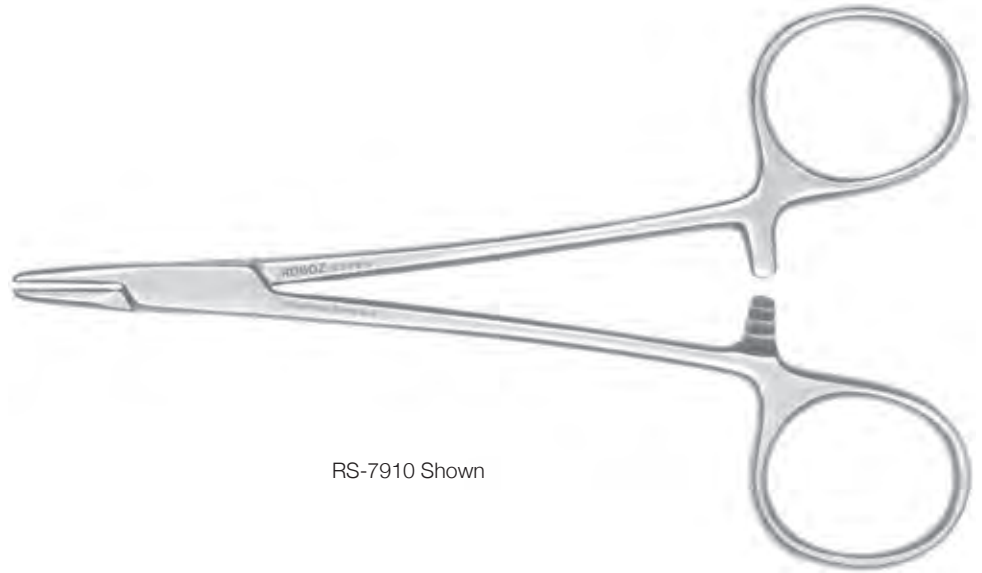
RS-7841L

**HALSEY**  
needle holder  
left-handed version  
serrated jaws  
carbide  
length 5"



**MAYO-HEGAR**  
needle holder  
left-handed version

**RS-7912L**      length 6"

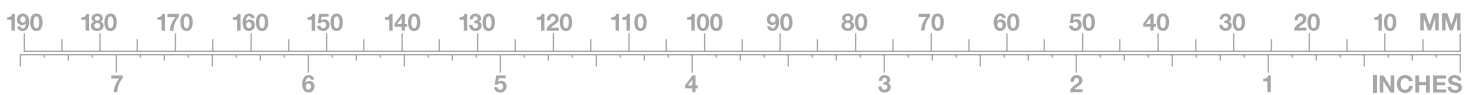


RS-7910 Shown

**RS-7924L**      **MAYO-HEGAR**  
needle holder with  
carbide jaws  
left-handed version  
length 7"

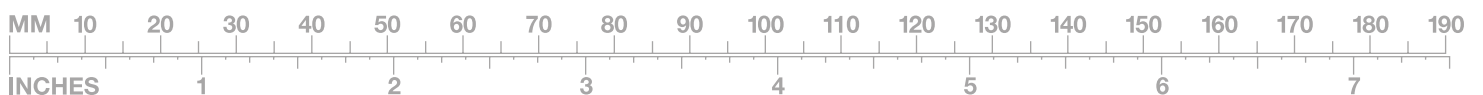


RS-7840 Shown



COMPARISON OF MILLIMETERS TO INCHES			
MM	INCHES	MM	INCHES
0.33	.013	6	.236
0.5	.020	6.33	.249
0.67	.026	6.5	.256
1	.039	6.67	.263
1.33	.052	7	.275
1.5	.059	7.33	.288
1.67	.066	7.5	.295
2	.079	7.67	.302
2.33	.092	8	.315
2.5	.098	8.33	.328
2.67	.105	8.5	.335
3	.118	8.67	.341
3.33	.131	9	.354
3.5	.138	9.33	.367
3.67	.144	9.5	.374
4	.157	9.67	.380
4.33	.170	10	.394
4.5	.177	10.33	.407
4.67	.184	10.67	.420
5	.197	11	.433
5.33	.210	11.33	.446
5.5	.216	11.67	.459
5.67	.223	12	.472

COMPARISON OF INCHES TO MILLIMETERS				COMPARISON OF INCHES TO CENTIMETERS		COMPARISON OF CENTIMETERS TO INCHES	
INCHES	MM	INCHES	MM	INCHES	CM	CM	INCHES
1/32	0.79	17/32	13.49	1	2.54	1	.3937
1/16	1.59	9/16	14.29	2	5.08	2	.7874
3/32	2.38	19/32	15.08	3	7.62	3	1.1811
1/8	3.18	5/8	15.88	4	10.16	4	1.5748
5/32	3.97	21/32	16.67	5	12.70	5	1.9685
3/16	4.76	11/16	17.46	6	15.24	6	2.3622
7/32	5.56	23/32	18.26	7	17.78	7	2.7559
1/4	6.35	3/4	19.05	8	20.32	8	3.1496
9/32	7.14	25/32	19.84	9	22.86	9	3.5433
5/16	7.94	13/16	20.64	10	25.40	10	3.9370
11/32	8.73	27/32	21.43	11	27.94	20	7.8740
3/8	9.53	7/8	22.22	12	30.48	30	11.8110
13/32	10.32	29/32	23.02	13	33.02	40	15.7480
7/16	11.11	15/16	23.81	14	35.56		
15/32	11.91	31/32	24.61	15	38.10		
1/2	12.07	1"	25.40				



# Instrument Services





## Instrument Color Coding



### Cost Effective Identification

<b>RC-4324</b>	Brick Red
<b>RC-4382</b>	Deep Space
<b>RC-4442</b>	Sunset Orange
<b>RC-4523</b>	Lemon Peel
<b>RC-4722</b>	Evergreen
<b>RC-4894</b>	Passion Purple
<b>RC-4991</b>	Carolina Blue
<b>RC-5091</b>	Royal Blue

#### PERMANENT IDENTIFICATION!

- Heat fused coating to any surgical instrument
- Survives wear and impact damage
- Impervious to acids & caustics
- Withstands repeated autoclavings
- Custom colors available at a minimum charge

**Roboz Surgical Instrument Co., Inc.**

P.O.Box 10710 • Gaithersburg, Maryland 20898-0710  
Phone 301-590-0055 • 800-424-2984 • Fax 888-424-3121



## 1. RINSING

Immediately after surgery, rinse instruments under warm (not hot) running water. Rinse should remove all blood, body fluids and tissue.

## 2. CLEANING

(If not done immediately after rinsing, instruments should be submerged in a solution of water and neutral PH(7) detergent.)

### A. Ultrasonic Cleaning

For micro and delicate instruments, use manual cleaning (step C).

Instruments should be processed in a cleaner for the full recommended cycle time – usually 5 to 10 minutes.

Place instruments in open position into the ultrasonic cleaner. Make sure that "Sharp" (scissors, knives osteotomes, etc.) blades do not touch other instruments.

All Instruments have to be fully submerged.

Do not place dissimilar metals (stainless, copper, chrome plated, etc.) in the same cleaning cycle.

Change solution frequently – at least as often as manufacturer recommends.

Rinse instruments after ultrasonic cleaning with water to remove ultrasonic cleaning solution.

### B. Automatic Washer Sterilizers

Follow manufacturers recommendations but make sure instruments are lubricated after last rinse cycle and before sterilization cycle.

### C. Manual Cleaning

Most instrument manufacturers recommend ultrasonic cleaning as the best and most effective way to clean surgical instruments, particularly those with hinges, locks and other moving parts. If ultra sonic cleaning is not available observe the following steps.

## I. Use stiff plastic cleaning brushes (nylon, etc.)

Do not use steel wool or wire brushes except specially recommended stainless steel wire brushes for instruments such as bone files, or on stained areas in knurled handles.

## II. Use only neutral PH(7) detergents because if not rinsed off properly, low PH detergents will cause breakdown of stainless protective surface and black staining.

High PH detergent will cause surface deposit of brown stain, which will also interfere with smooth operation of the instrument.

## III. Brush delicate instruments carefully and, if possible, handle them totally separate from general instruments.

## IV. Make sure all instrument surfaces are visibly clean and free from stains and tissue.

This is a good time to inspect each instrument for proper function and condition.

Check and make sure that :

Scissors blades glide smoothly all the way (they must not be loose when in closed position). Test scissors by cutting into thin gauze. Three quarters of the length of blade should cut all the way to the scissor tips, and not hang up.

Forceps (pickups) have properly aligned tips.

Hemostats and Needle Holders do not show light between the jaws, lock and unlock easily, joints are not too loose. Check Needle Holders for wear on jaw surfaces.

Suction tubes are clean inside.

Retractors function properly.

Cutting instruments and knives have sharp, undamaged blades.

## V. After scrubbing, rinse instruments thoroughly under running water. While rinsing, open and close Scissors, Hemostats, Needle Holders and other hinged instruments to make sure the hinge areas are rinsed out, as well as the outside of the instruments.

### 3. AFTER CLEANING

If instruments are to be stored, let them air dry and store them in a clean and dry environment.

### 4. AUTOCLAVING

If instruments are to be reused or autoclaved:

- A. Lubricate all instruments which have any "metal to metal" action such as scissors, hemostats, needle holders, self-retaining retractors, etc.

Recommend surgical lubricants such as instrument milk are best. Do not use WD-40, oil or other industrial lubricants.

- B. Put instruments up for autoclaving either individually or in sets.

#### *Individual Instruments*

Disposable paper or plastic pouches are ideal. Make sure you use a wide enough pouch (4" or wider) for instruments with ratchet locks such as needle holders and hemostats so the instrument can be sterilized in an open (unlocked) position.

#### *Instrument Sets*

Unlock all instruments and sterilize them in an open position. Place heavy instruments on bottom of set (when two layers are required).

Never lock an instrument during autoclaving. It will not be sterile as steam cannot reach the metal to metal surfaces. The instrument will develop cracks in hinge areas because of heat expansion during the autoclave cycle.

Do not overload the autoclave chamber as pockets may form that do not permit steam penetration. Place towel on bottom of pan to absorb excess moisture during autoclaving. This will reduce the chances of getting "Wet packs". Make sure the towels used in sterilization of instruments have no detergent residue and are neutral – PH(7) if immersed in water. This can be a real problem as laundries frequently use inexpensive but high PH(9-13) detergents and do not properly rinse out or neutralize those detergents in the final wash/rinse cycle. Also, some times bleaches such as Clorox are added and are not neutralized.

**CAUTION** – At the end of the autoclave cycle – before the drying cycle – unlock autoclave door and open it more than a crack (about 3/4"). Then run dry cycle for the period recommended by the autoclave manufacturer. If the autoclave door is opened fully before the drying cycle, cold room air will rush into the chamber, causing condensation on the instruments. This will result in water stains on instruments and also cause wet packs.

If you have any unusual staining on your instruments during sterilization, contact your local instrument representative.

### 5. COLD STERILIZATION

Most cold sterilization solutions render instruments sterile only after a 10 hour immersion. This prolonged chemical action can be more detrimental to the surgical instruments than the usual 20 minute autoclave cycle. If the instruments only need to be "disinfected", cold sterilization is recommended because unlike sterilization, disinfection will occur after only 10 minutes.

But keep in mind the difference between:

**STERILE** – an absolute term (no living organism survives)

and

**DISINFECTED** – basically clean.

Always use the proper sterilization/cleaning technique to render the instrument in required condition for use.

For instruments with Tungsten Carbide inserts (Needle Holders, Scissors, Tissue Forceps), we do not recommend use of solutions containing Benzyl Ammonium Chloride which will destroy the Tungsten Carbide Inserts.



COMPARISON OF MILLIMETERS TO INCHES			
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*continued on following page*

COMPARISON OF INCHES TO MILLIMETERS				COMPARISON OF INCHES TO CENTIMETERS		COMPARISON OF CENTIMETERS TO INCHES	
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1/8	3.18	5/8	15.88	4	10.16	4	1.5748
5/32	3.97	21/32	16.67	5	12.70	5	1.9685
3/16	4.76	11/16	17.46	6	15.24	6	2.3622
7/32	5.56	23/32	18.26	7	17.78	7	2.7559
1/4	6.35	3/4	19.05	8	20.32	8	3.1496
9/32	7.14	25/32	19.84	9	22.86	9	3.5433
5/16	7.94	13/16	20.64	10	25.40	10	3.9370
11/32	8.73	27/32	21.43	11	27.94	20	7.8740
3/8	9.53	7/8	22.22	12	30.48	30	11.8110
13/32	10.32	29/32	23.02	13	33.02	40	15.7480
7/16	11.11	15/16	23.81	14	35.56		
15/32	11.91	31/32	24.61	15	38.10		
1/2	12.07	1"	25.40				

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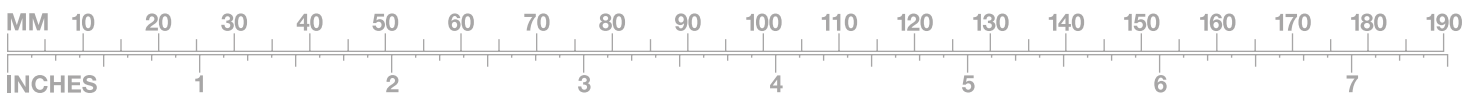
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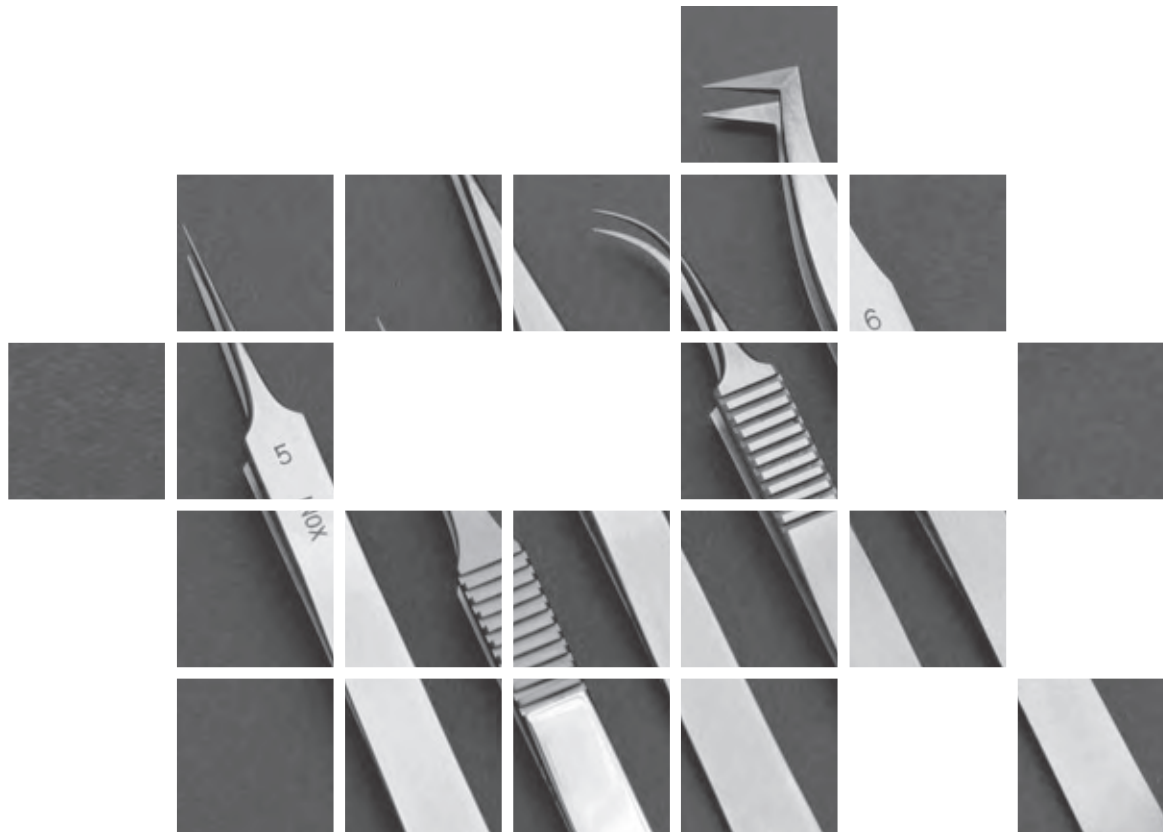
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