



Roboz Surgical Instrument Catalog



www.robоз.com

Ordering Information

Phone To Order by phone call Toll Free **1-800-424-2984**
Our experienced customer support staff will courteously and efficiently assist you. Our business hours are:
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Roboz Surgical Customer Service.
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Credit Card Roboz accepts VISA, Mastercard and American Express



After Hours
Holidays & Weekends Our normal business hours are: 8:30 a.m. to 5:30 p.m. Eastern Time Monday through Friday. Outside normal hours please leave your name on our voice mail and a customer service representative will return your call the next business day.

Shipping & Handling We normally ship UPS two day service for a flat rate fee. Next day service is available for an additional fee. Shipping point is Gaithersburg, Maryland.

Returns To return any of our products please call us at 1-800-424-2984. Our customer service staff will arrange for authorization and assist you. Please use care in packaging delicate items. Also note a 10% restocking charge may apply.

Terms & Conditions **Net 30 Days**
A 1.5% charge for overdue accounts may apply.
Delivery 2-5 days ARO
F.O.B. Gaithersburg, MD

5 reasons why ordering from Roboz makes good sense:

1

EASY ORDERING

Roboz Surgical is ready to serve you Monday through Friday 8:30 a.m. to 5:30 p.m. Eastern Standard Time. Our customer service department is available to take phone orders or answer any questions M-F 8:30am - 5:30pm EST. You can also place your order through our web store, or via fax or email 24 hours a day, 7 days a week. Orders placed before 5:00pm EST M-F are processed and shipped out the same day!

2

SPEEDY DELIVERY

When you need your instruments fast, Roboz delivers. We offer second day delivery as our standard shipping method and we will gladly ship your instruments overnight when time is critical. We process each order the day it is placed and 99% of our products are in stock allowing us to maintain the largest inventory of surgical instruments anywhere! The result....FAST delivery when you need it!

3

GREAT VALUES

Browse through this catalog and you'll find thousands of different instruments; many only available from Roboz Surgical. And all of our quality instruments are competitively priced. Quality instruments in stock when you need them and at great prices...with Roboz Surgical, you get solid value for your dollar.

4

SUPERIOR SERVICE

Whether you need specific recommendations for instruments, have a technical question about one of our products or simply want to check the price of an item, Roboz Surgical's well trained customer service representatives are ready to assist you. Count on Roboz for superior service!

5

ROBOZ QUALITY GUARANTEE

All Roboz instruments are guaranteed to be free from defects in workmanship and material. Any Roboz instrument which proves defective in workmanship or material will either be repaired or replaced at our discretion without charge. It's that simple.

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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 tweezer. The information below is provided to help compare the various alloys and their respective properties. Please note that not all tweezer patterns are available in all alloys.

- CARBON STEEL:** At Rockwell 60, carbon steel is one of the hardest tweezer 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 tweezer 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 tweezer 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-4960

tip .20 x .12mm

Material: Dumostar



RS-4900 Shown



RS-4960 Shown

Pattern #2

length 120mm

Tip Profile **RS-4902**

tip .17 x .07mm

Material: INOX

Biologie Tips

RS-4962

tip .34 x .14mm

Material: Dumostar

RS-5041

tip .34 x .14mm

Material: INOX



RS-4902 Shown



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-4964

tip .17 x .10mm

Material: Dumostar

RS-4966

tip .08 x .04mm

Material: Dumostar

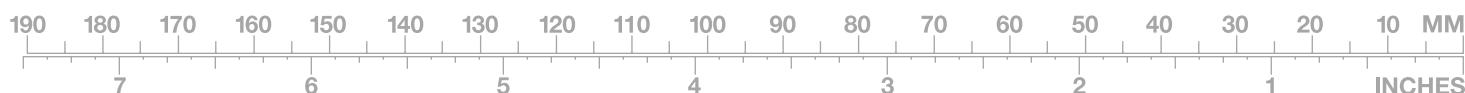
Biologie Tips



RS-4903 Shown



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**

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

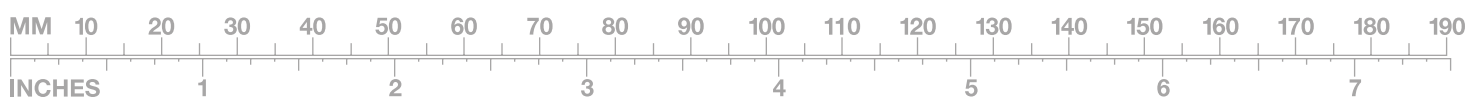
Material: Dumostar

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

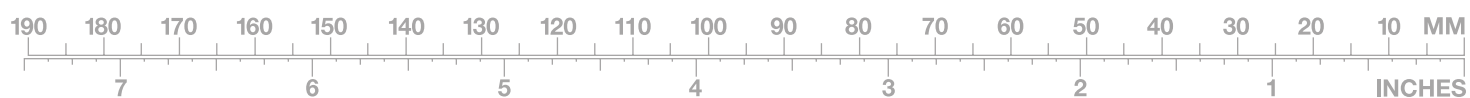
tip .025 x .005mm
Material: INOX
Superfine Tips



Pattern #5 Ceramic
length 110mm
Tip Profile 

RS-4925

tip 0.05 x 0.01mm
Material: Black Ceramic 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

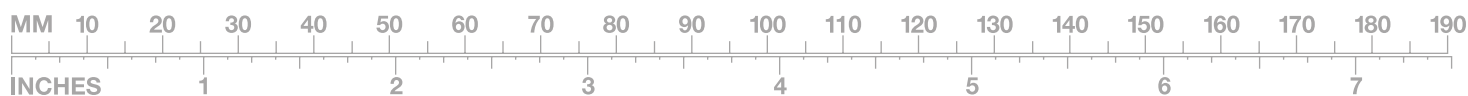
Pattern #5

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-4984

tip .05 x .01mm

Material: Dumostar

Biologie Tips



RS-5010 Shown

Pattern #5A

oblique points

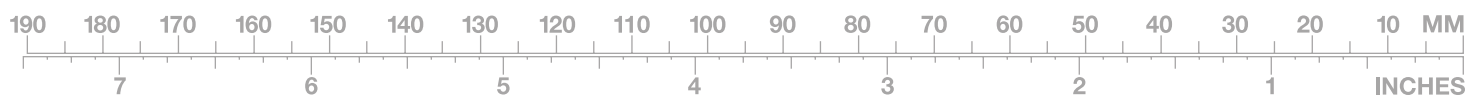
length 115mm

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

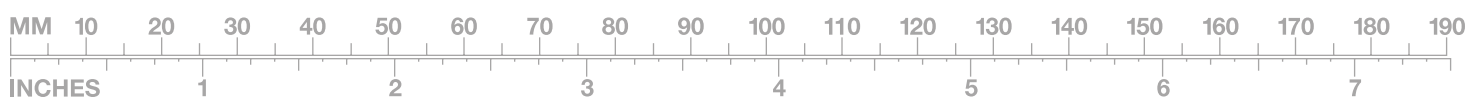
tip .17 x .10mm
 Material: Dumostar

RS-4982

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

RS-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-4941

tip .10 x .06mm
45° angle
Material: INOX
Biologie Tips

**Pattern #PP**

heavy duty
length 135mm
Tip Profile 

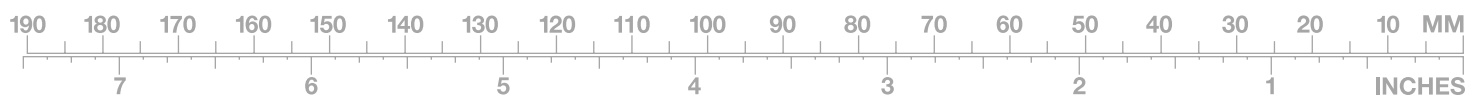
RS-4950

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

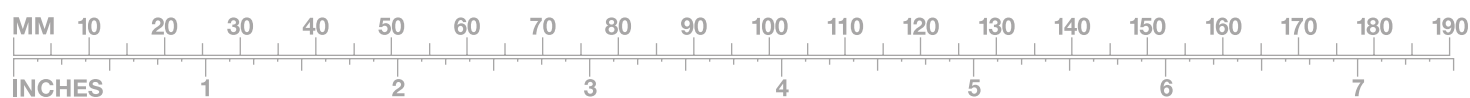
for tubing of .5mm OD
length 130mm
tip width .9mm
tip diameter .5mm
Material: INOX



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



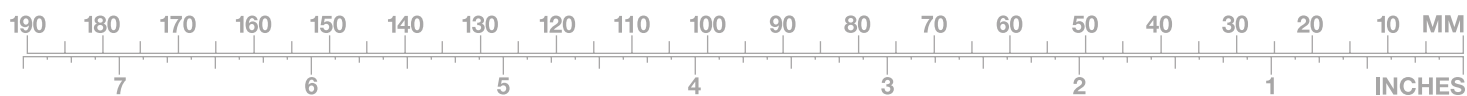
RS-4930

**Vessel Dilation
Forceps**
length 115mm
tip 0.3 x 0.6mm



RS-4952

Corneal Forceps
length 135mm
tip .30 x .30mm
retention hole
diameter .35mm





RS-5169

BONN
tying platform
0.3mm tip width
length 2¾"



RS-5170

BONN
tying platform
1 x 2 teeth
0.12mm teeth
0.3mm tip width
length 2¾"



RS-5180

BISHOP-HARMON
cross serrated
0.5mm tip width
length 3¼"



RS-5182

BISHOP-HARMON
1 x 2 teeth
0.3mm teeth
0.5mm tip width
length 3¼"



RS-5110

GRAEFE
serrated, straight
tip width 0.6mm
length 2¾"



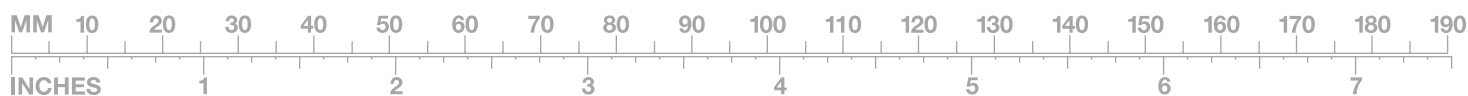
RS-5111

GRAEFE
serrated, curved
tip width 0.6mm
length 2¾"



RS-5112

GRAEFE
1 x 2 teeth, straight
tip width 0.6mm
length 2¾"



RS-5113

GRAEFE

1 x 2 teeth, curved
tip width 0.6mm
length 2³/₄"



RS-5070

Micro Dissecting

straight
fine thin tips
tip width 0.2mm
length 3¹/₄"



RS-5079

Micro Dissecting

smooth jaws, angular
extra fine tips
tip width 0.2mm
length 3¹/₂"



RS-5075

Micro Dissecting

cross action
fine tips
tip width 0.2mm
length 3¹/₂"



RS-5165

GILL

slight curve
delicate cross
serrations
tip width 0.6mm
length 3"



RS-5166

GILL

slight curve, 1 x 2 teeth
tip width 0.6mm
length 3"



RS-5168

BOTVIN

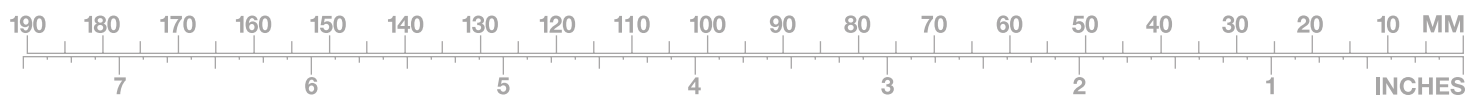
serrated tips
tip width 0.5mm
length 3"



RS-5068

McPHERSON

straight
smooth tying platform
tip 0.35 x 5mm
length 4"



RS-5068T

McPHERSON

straight
smooth tying platform
tip 0.35 x 5mm
length 4"
Material: Titanium

RS-5069

McPHERSON

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

RS-5172

BONN

tying platform
1 x 2 teeth
0.12mm teeth
0.3mm tip width
length 3³/₄"

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

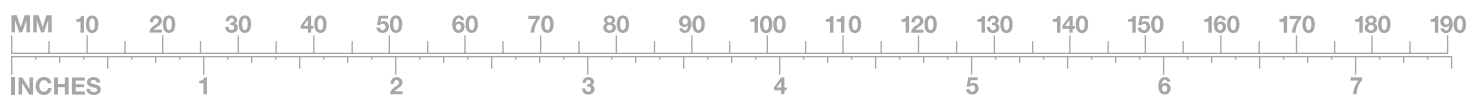
Micro Dissecting

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
1 x 2 teeth
tip width 0.5mm
length 4"



RS-5103

FOERSTER

curved
1 x 2 teeth
tip width 0.5mm
length 4"



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

RS-5130

stainless steel

RS-5130T

titanium

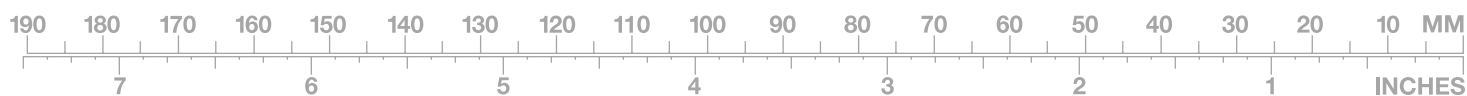


RS-5130 Shown

RS-5132

Micro Dissecting

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



RS-5150

Micro Dissecting
1 x 2 teeth, straight
tip width 0.8mm
length 4"

RS-5152

Micro Dissecting
1 x 2 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
1 x 2 teeth,
slight curve
tip width 0.8mm
length 4"

RS-5155

Micro Dissecting
1 x 2 teeth, slight
curve
extra delicate
tip width 0.5mm
length 4"

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

RS-5137

stainless steel

RS-5137T

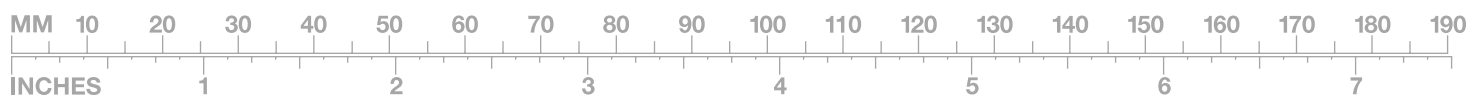
titanium

RS-5138

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



RS-5137 Shown



RS-5157

Micro Dissecting
1 x 2 teeth, full curve
tip width 0.8mm
length 4"



RS-5159

GRAEFE
1 x 2 teeth, full curve
extra delicate
tip width 0.5mm
length 4"



RS-5139

Micro Dissecting
serrated, angular
tip width 0.8mm
length 4"



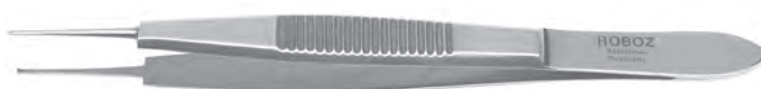
RS-5158

Micro Dissecting
1 x 2 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"



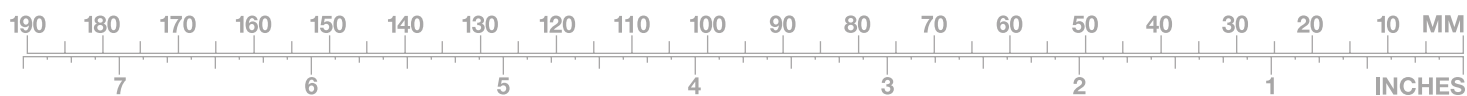
RS-5206

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^{1/4}"

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^{3/4}"



RS-5231

BROWN ADSON

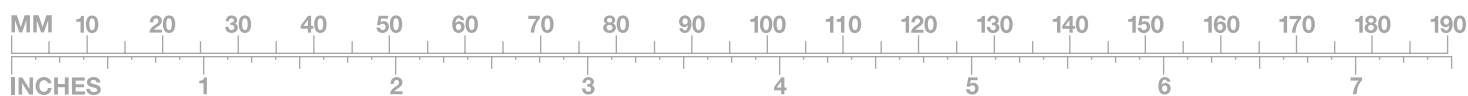
7 x 7 teeth
side grasping
length 4^{3/4}"



RS-5232

Micro-ADSON

1 x 2 teeth, delicate
tip width 0.5mm
length 4^{3/4}"



- ADSON**
length 4³/₄"
1 x 2 teeth
- RS-5233** with serrations
tip width 1mm
- RS-5235** without serrations
tip width 1mm



RS-5233 Shown

- ADSON**
2 x 3 teeth
tip width 1.3mm
length 4³/₄"



- ADSON**
tip width 1mm
length 4³/₄"
- RS-5239** serrated
- RS-5236** cross serrated
carbide jaws



- HUDSON (EWALD)**
serrated
tip width 1.4mm
length 4³/₄"



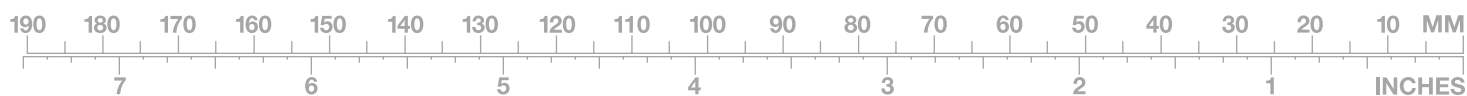
- HUDSON (EWALD)**
tip width 1.4mm
1 x 2 teeth
length 4³/₄"



- SEMKEN**
length 5"
- RS-5240** serrated
tip width 1.2mm
- RS-5242** 1 x 2 teeth
tip width 1.2mm
- RS-5244** 2 x 3 teeth
tip width 1.4mm



RS-5242 Shown





RS-5248 Shown

SEMKEN
tip width 1.6mm
length 6"

RS-5246

serrated

RS-5248

1 x 2 teeth



RS-5255

SINGLEY
organ holding forceps
length 6"



RS-5162 Shown

Fenestrated forceps
length 3 1/2"

RS-5160

1.5mm diameter

RS-5161

3mm diameter

RS-5162

6mm diameter



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

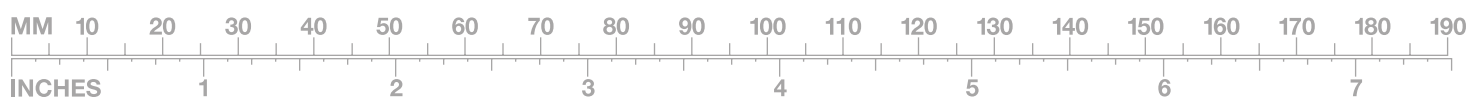
RHOTON
micro suturing
w/ tying platform
curved
tip width 0.3mm

RS-5263

length 5"

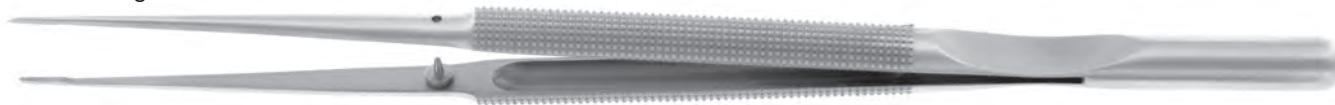
RS-5264

length 7"



RHOTON

micro suturing
w/ tying platform
tip width 0.3mm
diamond dust tips
length 7"

**RS-5266**

straight

RS-5266 Shown

RS-5277

curved

GERALD

length 7"

**RS-5270**

straight, serrated

RS-5270 Shown

RS-5272

straight, 1 x 2 teeth

GERALD

length 7"

**RS-5271**

curved, serrated

RS-5271 Shown

RS-5273

curved, 1 x 2 teeth

CUSHING

scraper end
length 7"

**RS-5280**

serrated

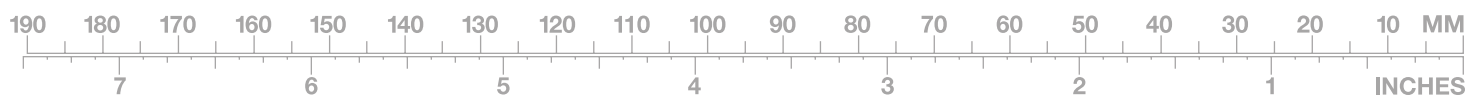
RS-5280 Shown

RS-5282

1 x 2 teeth

RS-5284**CUSHING**

cross serrated
length 7"
carbide jaws



POTTS-SMITH
serrated


RS-5310 Shown

RS-5310	length 7"
RS-5312	length 8 ¹ / ₄ "
RS-5314	length 9 ¹ / ₂ "

RS-5320 **POTTS-SMITH**
1 x 2 teeth
serrated
length 7"

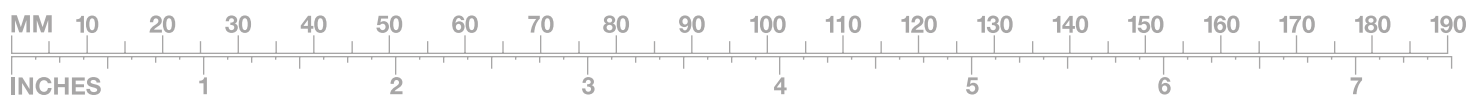

RS-5320 Shown


RS-5348 **Micro Alligator**
serrated jaws
tip width 0.8mm
jaw length 4mm
shaft length 3¹/₄"


RS-5358 Shown

Micro Dissecting
angled
tip length 11mm
length 6"

RS-5358	serrated jaws
RS-5359	smooth jaws



Thumb Dressing
serrated

RS-8100	length 4 1/2"
RS-8102	length 5"
RS-8104	length 5 1/2"
RS-8106	length 6"
RS-8108	length 8"
RS-8110	length 10"
RS-8112	length 12"



RS-8100 Shown

Thumb Dressing
delicate, serrated

RS-8120	length 4 1/2"
RS-8122	length 5"
RS-8124	length 5 1/2"
RS-8124T	length 5 1/2", titanium
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





RS-8160 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-8180 Shown

Tissue Forceps	
1 x 2 teeth delicate	
RS-8180	length 4 1/2"
RS-8182	length 5"
RS-8184	length 5 1/2"
RS-8186	length 6"



RS-8208 Shown

Tissue Forceps	
2 x 3 teeth	
RS-8208	length 4 1/2"
RS-8210	length 5"
RS-8212	length 5 1/2"
RS-8214	length 6"

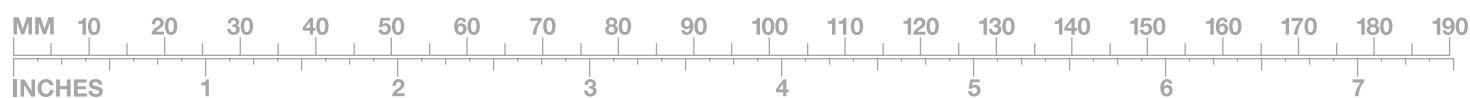


RS-8220 Shown

Tissue Forceps	
3 x 4 teeth	
RS-8220	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 1/4"



RS-8249

GRAEFE

locking
jaw width 4.5mm
fine teeth
length 4 1/4"



RS-8254

MOLONEY

serrated
slight curve
tip width 0.8mm
length 4 1/2"

**KUEHNE**

flat jaw
length 4"



RS-8260

angled

RS-8261

straight

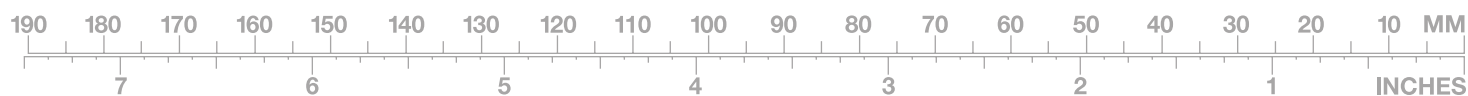
RS-8270

RUSSIAN

length 6"



RS-8270 Shown



RS-8280

WILDE
serrated, angular
length 5"



RS-8290

LUCAE
serrated,
bayonet
length 5³/₄"



RS-8298

JANSEN
serrated,
bayonet
length 8¹/₄"



80% of Actual Size

RS-7560

DeBAKEY
jaw width 2.5mm

RS-7562

length 6"
length 7³/₄"



RS-7560 Shown

RS-7561

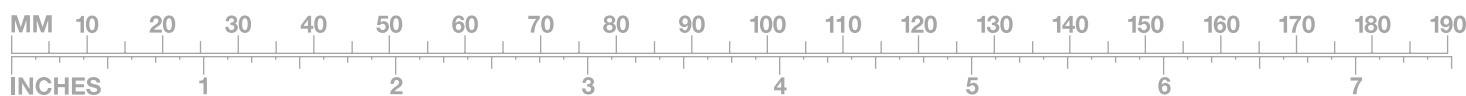
DeBAKEY
jaw width 1.5mm

RS-7566

length 6"
length 8"



RS-7561 Shown



HARTMAN

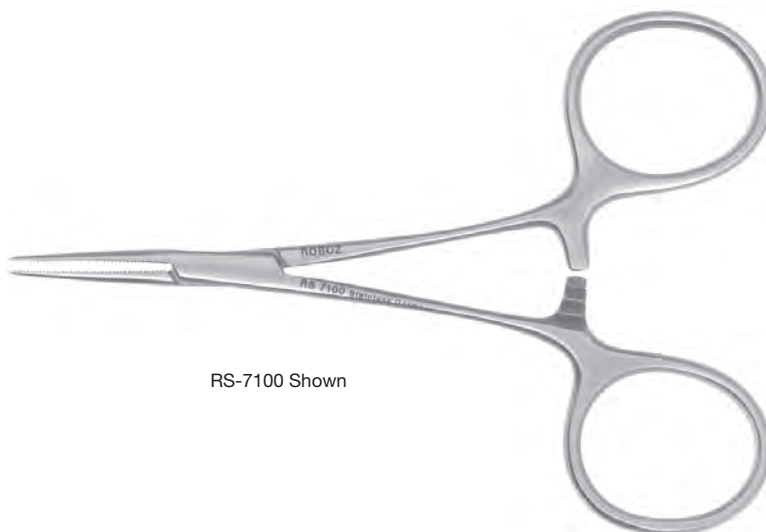
mosquito
length 4"
tip diameter 0.8mm
jaw width 1.9mm

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

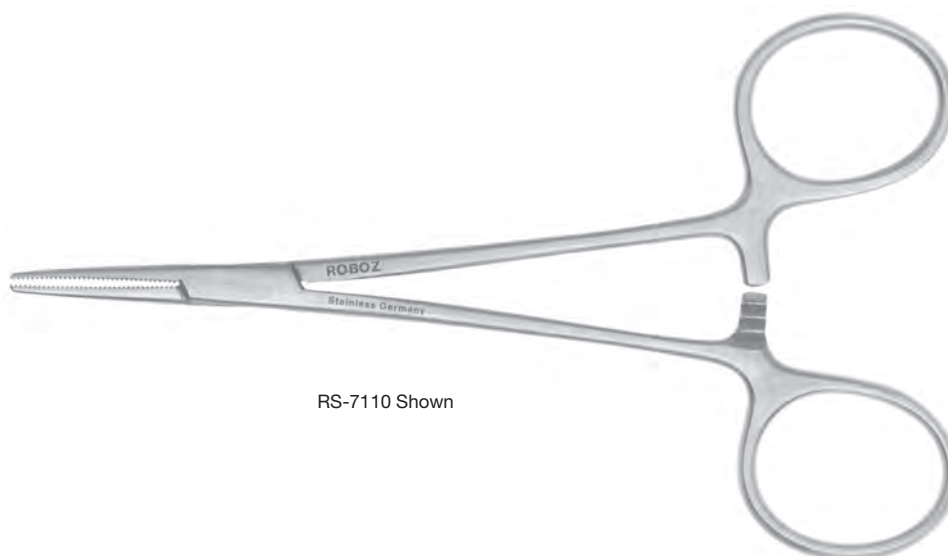
left-handed version

RS-7111

curved

RS-7111L

left-handed version



RS-7110 Shown

HALSTED

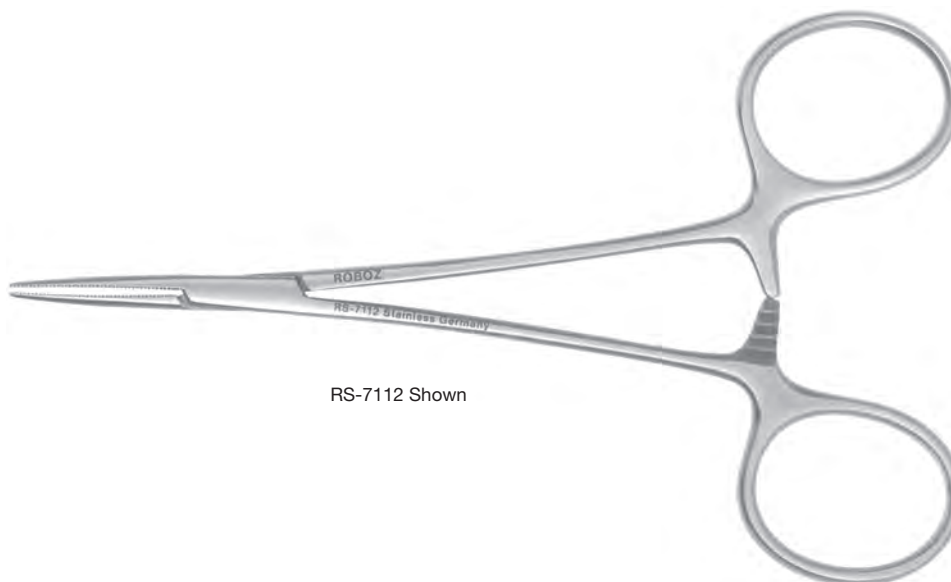
mosquito
extra delicate
length 5"
tip diameter 0.6mm
jaw width 1.7mm

RS-7112

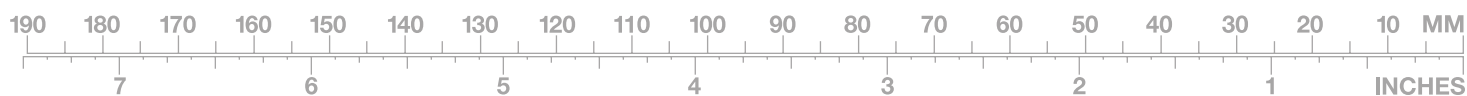
straight

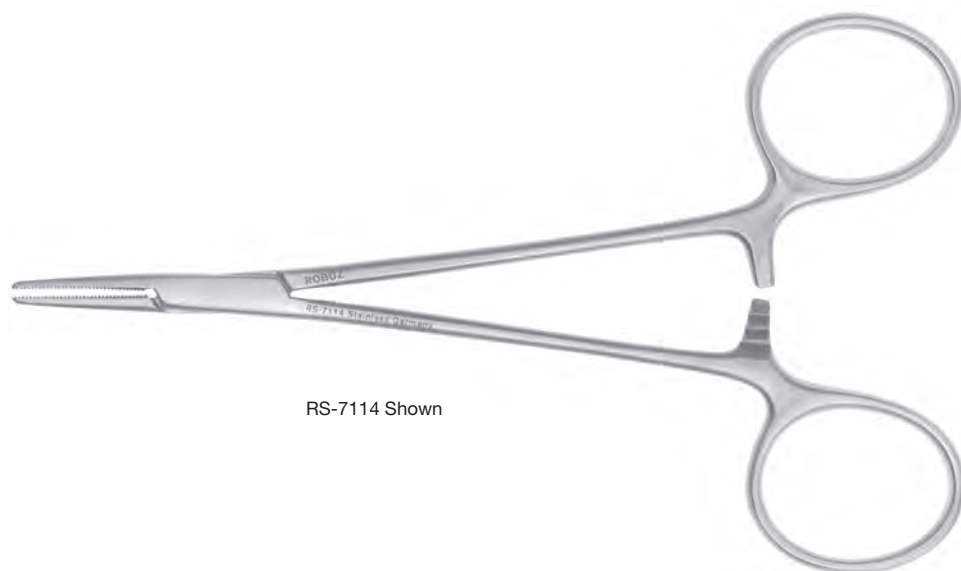
RS-7113

curved



RS-7112 Shown





RS-7114 Shown

RS-7114

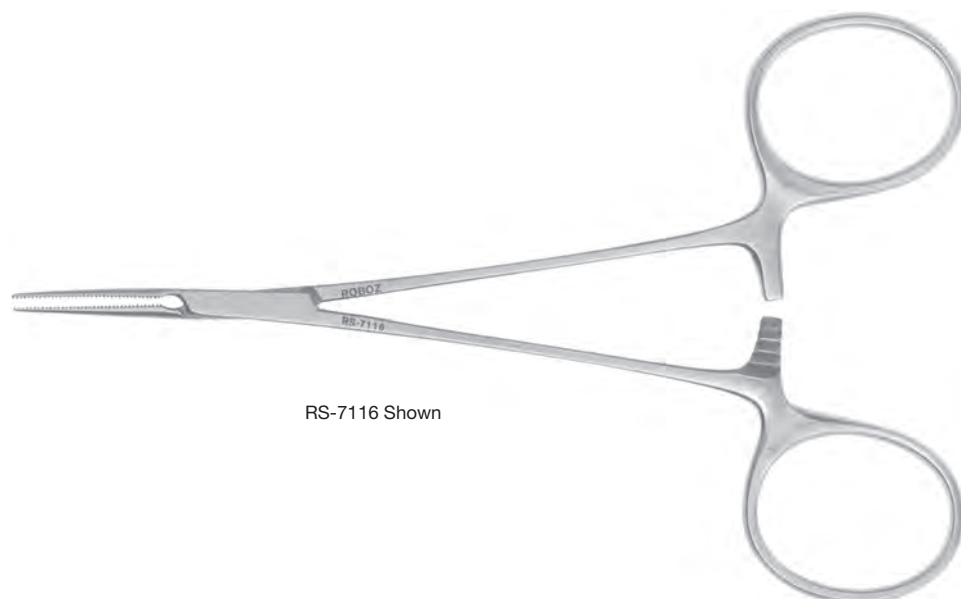
PACKER

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

straight

RS-7115

curved



RS-7116 Shown

RS-7116

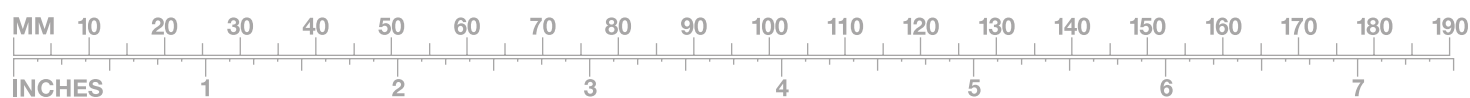
JACOBSON

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

straight

RS-7117

curved



KELLYlength 5¹/₂"

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

RANKINlength 6¹/₄"

tip diameter 1.8mm

jaw width 2.3mm

RS-7140

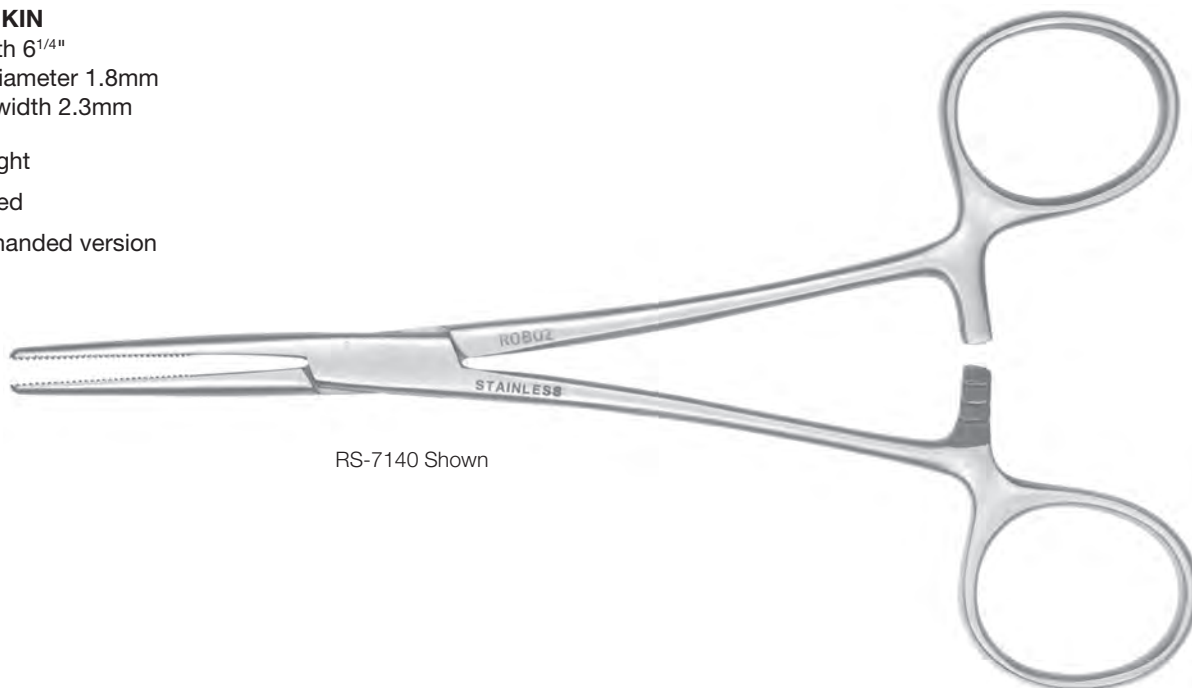
straight

RS-7141

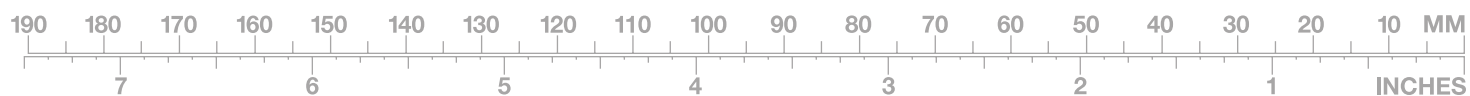
curved

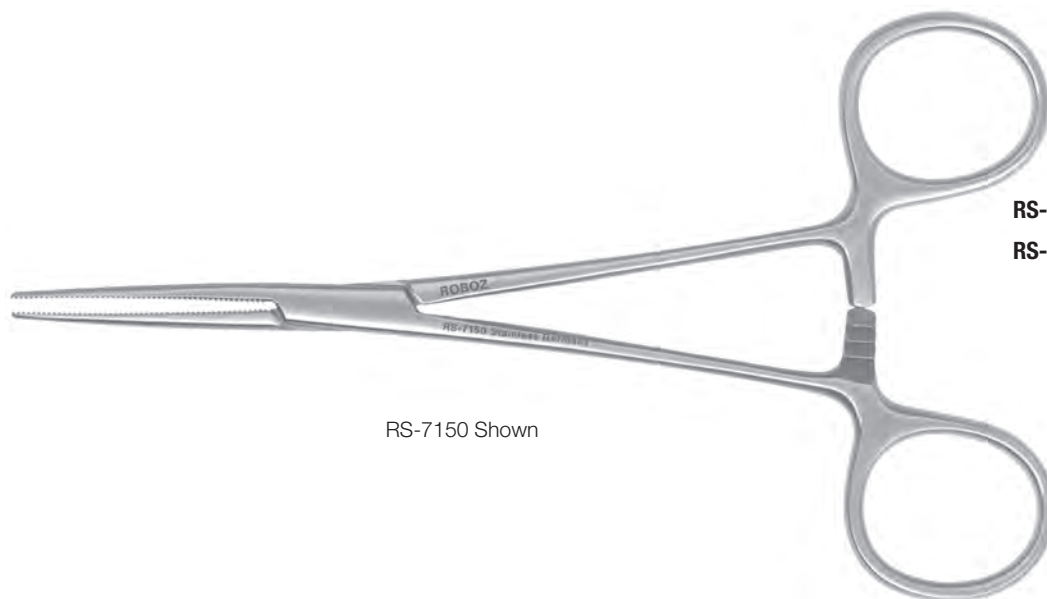
RS-7141L

left-handed version



RS-7140 Shown





RS-7150 Shown

RS-7150

RS-7151

CRILE

extra delicate

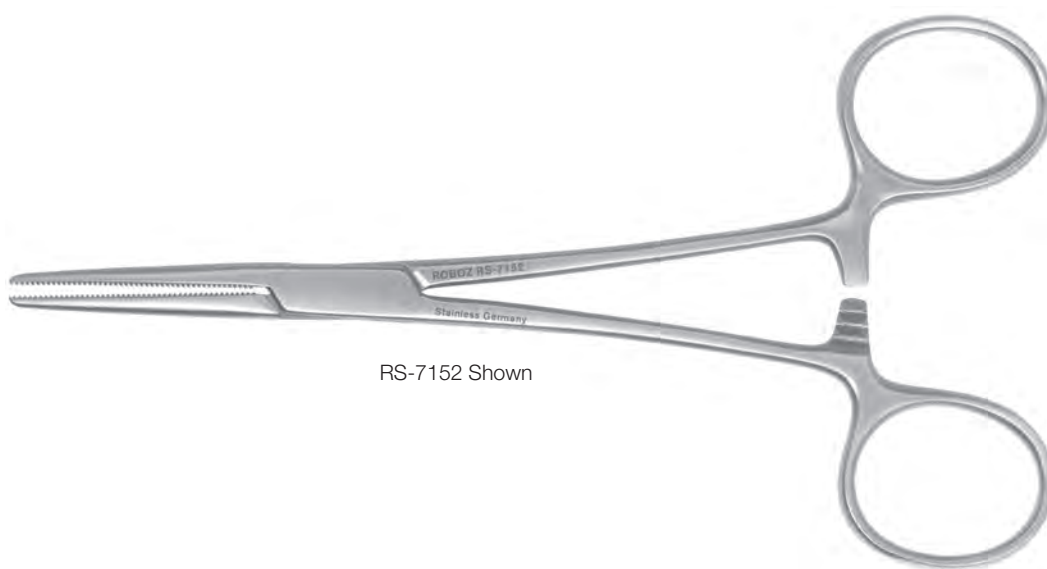
length 5 1/2"

tip diameter 0.9mm

jaw width 1.7mm

straight

curved



RS-7152 Shown

RS-7152

RS-7153

RS-7154

CRILE

straight

length 5 1/2"

tip diameter 1.5mm

jaw width 2.3mm

curved

length 5 1/2"

tip diameter 1.5mm

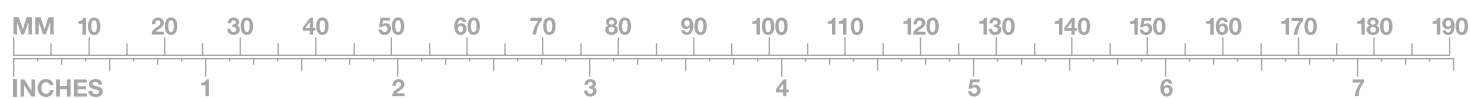
jaw width 2.3mm

straight

length 6 1/4"

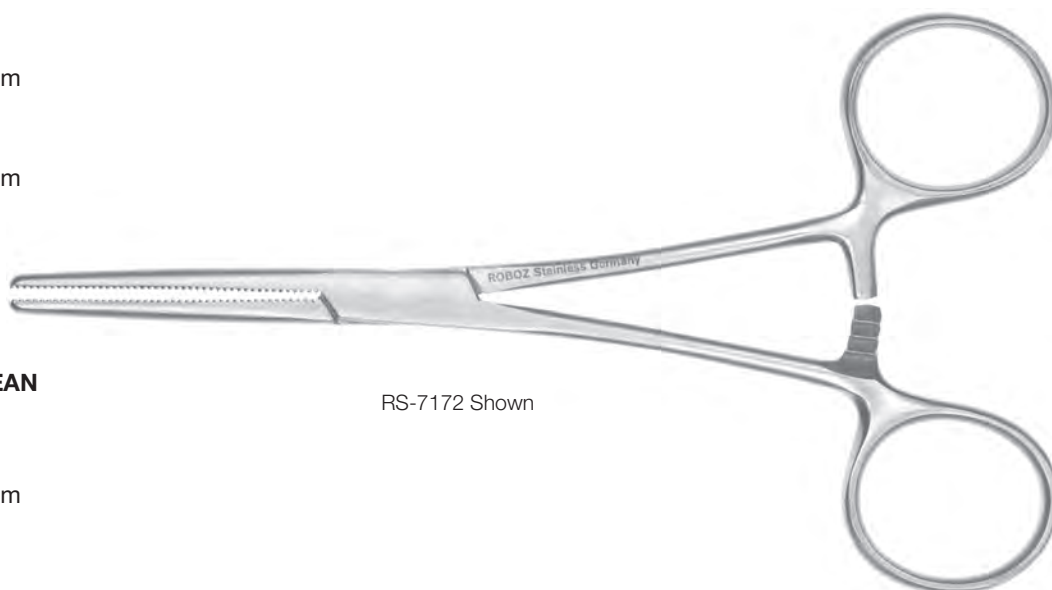
tip diameter 1.9mm

jaw width 2.6mm



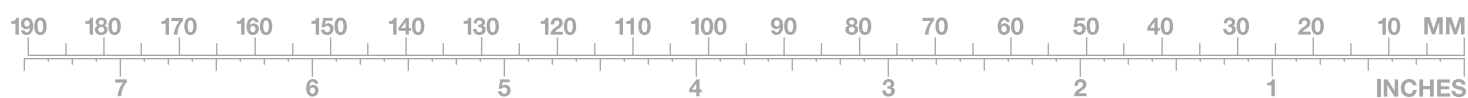
ROCHESTER-PEAN
straight

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

**ROCHESTER-PEAN**
curved

RS-7172 Shown

RS-7173	length 5 ¹ / ₂ " tip diameter 2.4mm jaw width 2.8mm
RS-7175	length 6 ¹ / ₄ " tip diameter 2.6mm jaw width 3.4mm
RS-7177	length 7 ¹ / ₄ " tip diameter 3.1mm jaw width 3.8mm
RS-7177L	left handed
RS-7183	length 10" tip diameter 3.8mm jaw width 4.1mm



RS-7211

REYNOLDS

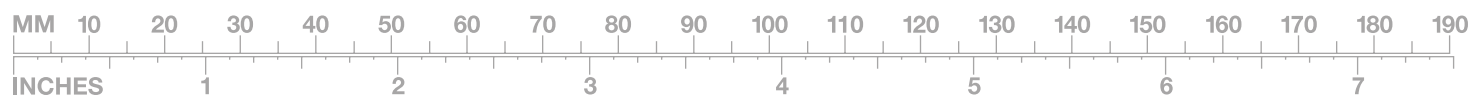
full-curve
length 5 1/2"
tip diameter 1.6mm
jaw width 2.2mm



RS-7220

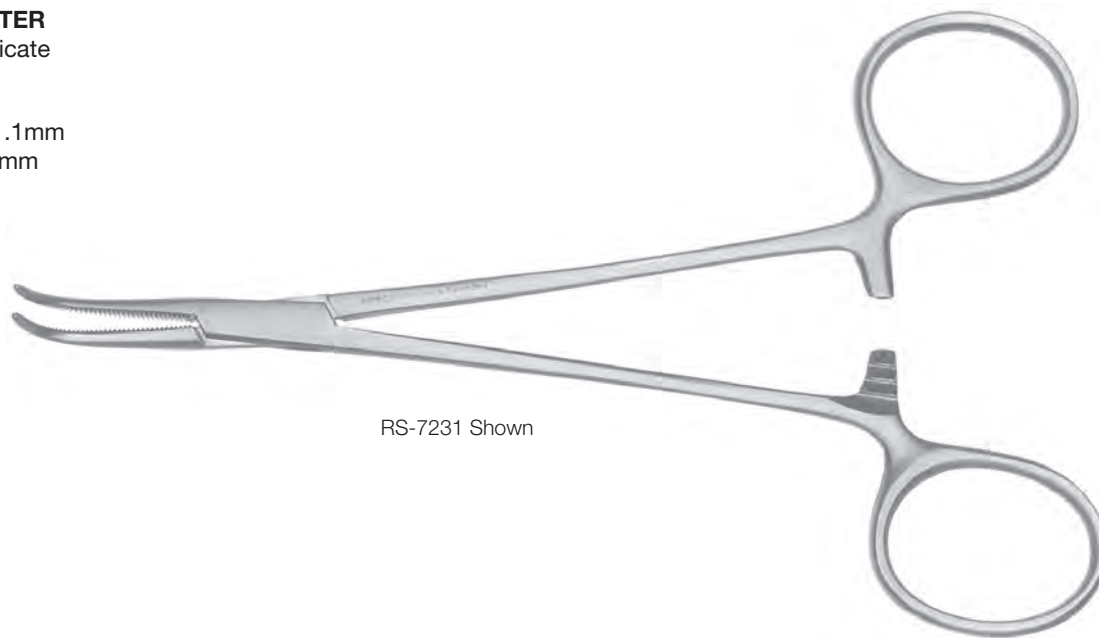
PENNINGTON

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



GEMINI-MIXTER
full curve, delicate**RS-7231**length 5¹/₂"
tip diameter 1.1mm
jaw width 1.9mm**RS-7233**

length 7"



RS-7231 Shown

ADSONlength 7¹/₄"
tip diameter 1.5mm
jaw width 2.3mm**RS-7250**

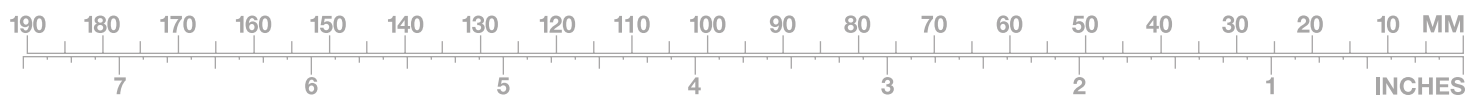
straight

RS-7251

curved



RS-7250 Shown



Mosquito

delicate

length 8¹/₄"

tip diameter 1.3mm

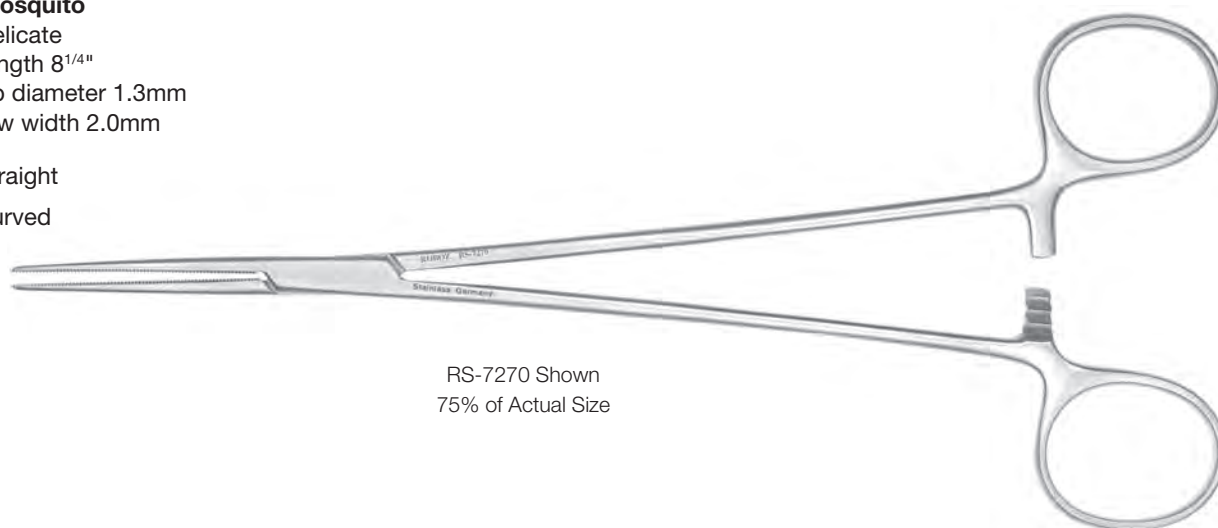
jaw width 2.0mm

RS-7270

straight

RS-7271

curved

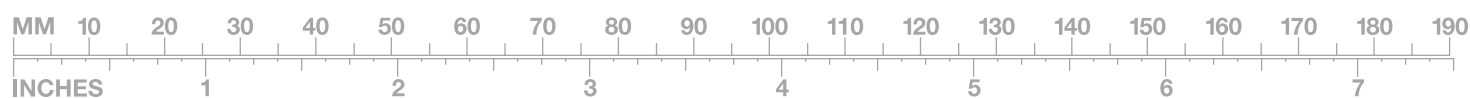
RS-7270 Shown
75% of Actual Size**RS-7291****MIXTER**

curved, extra delicate

length 5¹/₂"

tip diameter 1.1mm

jaw width 1.8mm



RS-7293

MIXTER

full curve
length 6^{1/4}
diameter 2.5mm
jaw width 3.2mm

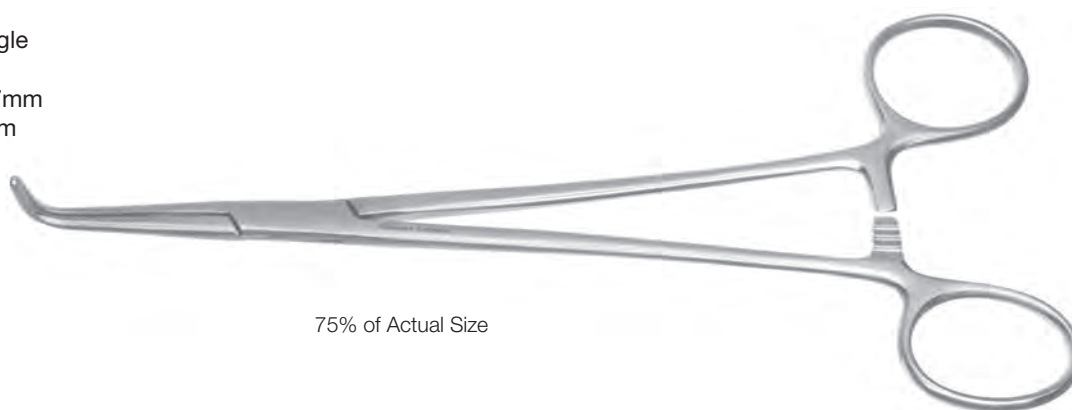


RS-7293 Shown

RS-7305

KANTROWITZ

delicate, 90° angle
length 7^{1/2}
tip diameter 1.7mm
jaw width 2.3mm

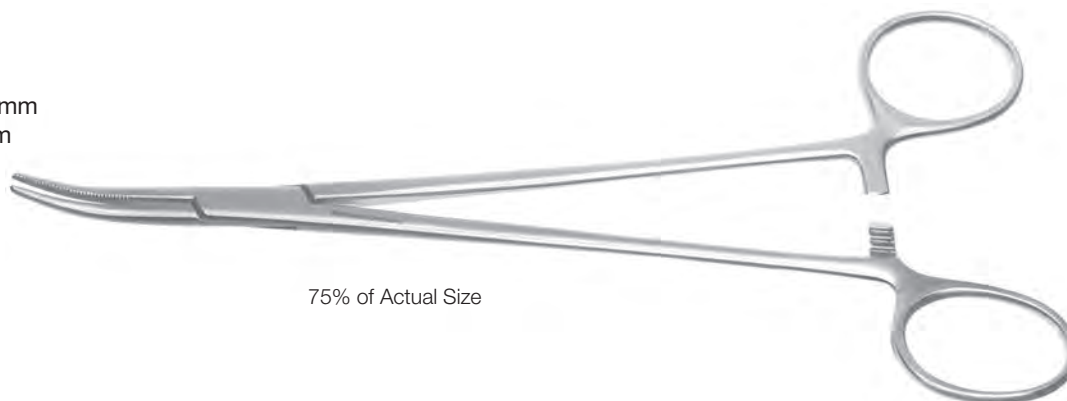


75% of Actual Size

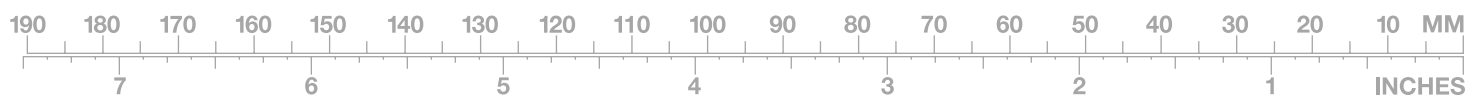
RS-7341

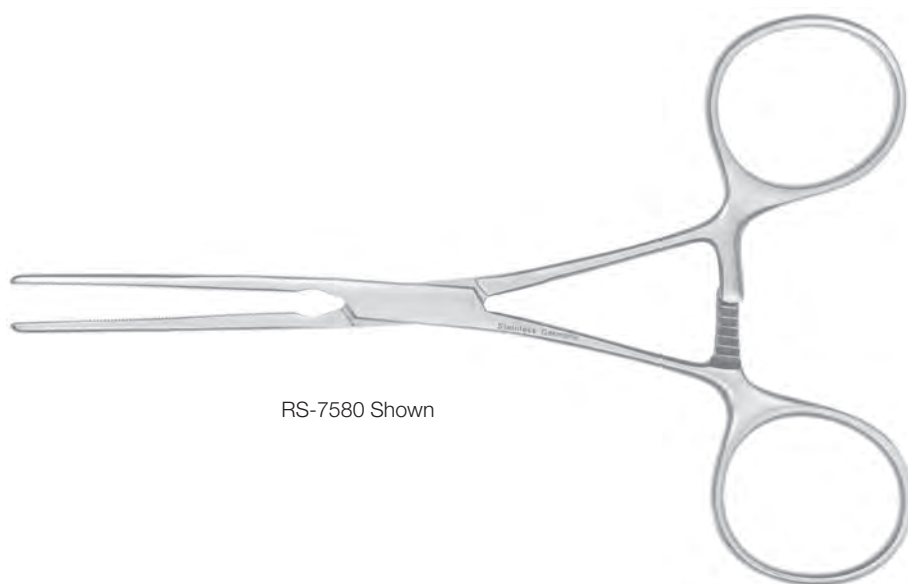
SCHNIDT

slight curve
length 7^{1/2}"
tip diameter 1.7mm
jaw width 2.3mm



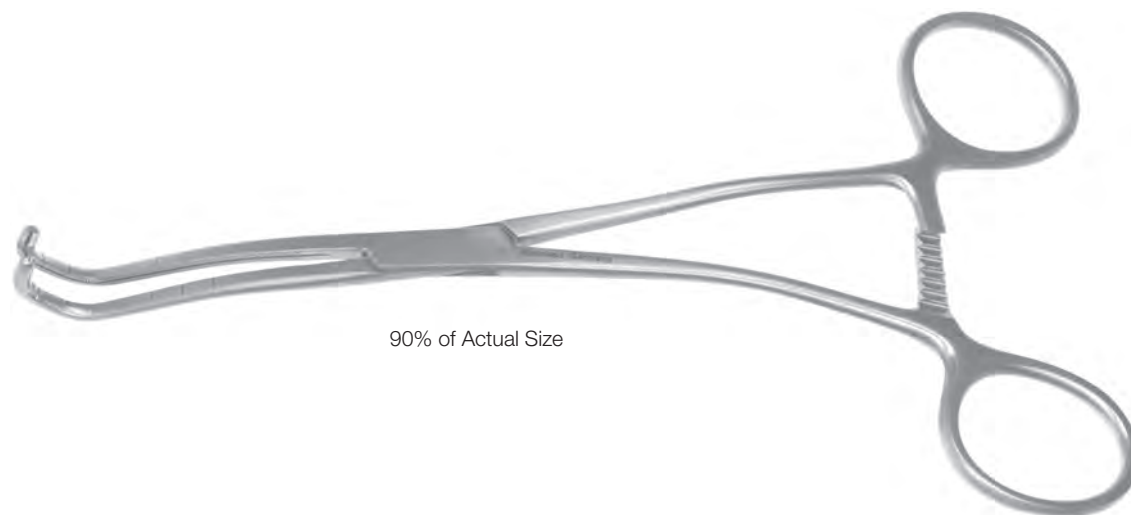
75% of Actual Size





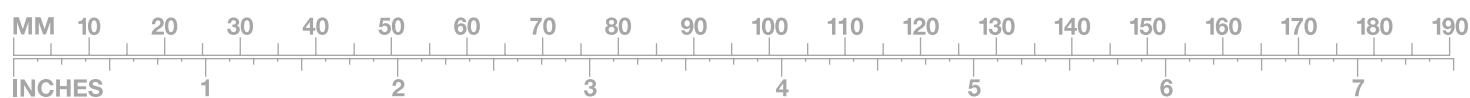
RS-7580 Shown

- DeBAKEY**
bulldog clamps
ring handle
length 4^{3/4}"
tip diameter 1.7mm
jaw width 2.0mm
- RS-7580** straight
RS-7581 curved



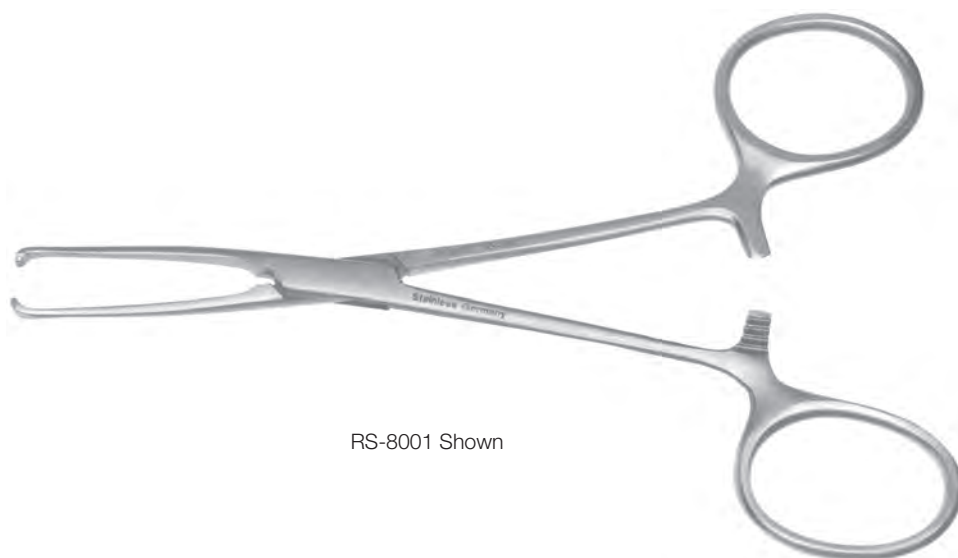
90% of Actual Size

- RS-7660**
- COOLEY-DERRA**
anastomosis clamp
5mm calibrations
on jaws
length 6^{1/4}"
small clamp
jaw width 2.6mm



ALLIS

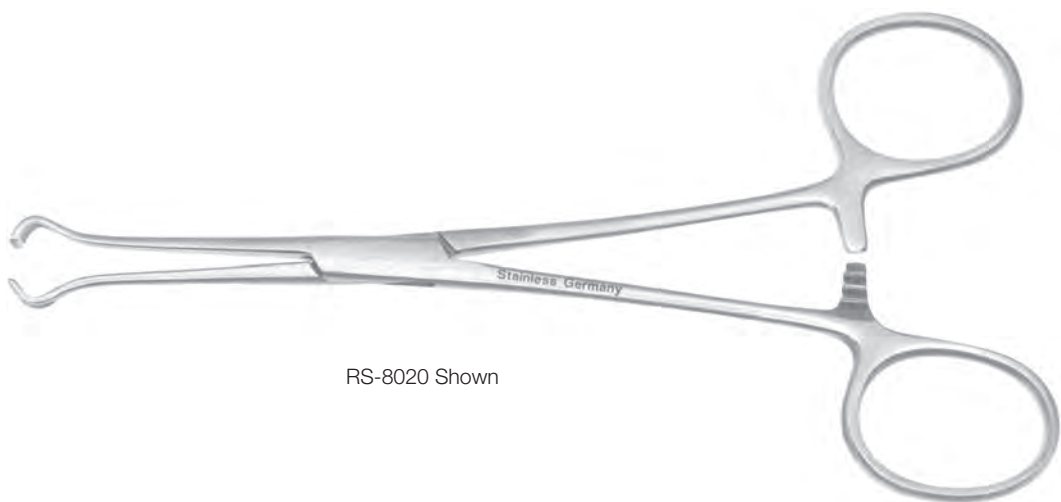
4 x 5 teeth, delicate

RS-8000jaw width 4mm
length 5¹/₂"**RS-8001**jaw width 3mm
length 5"

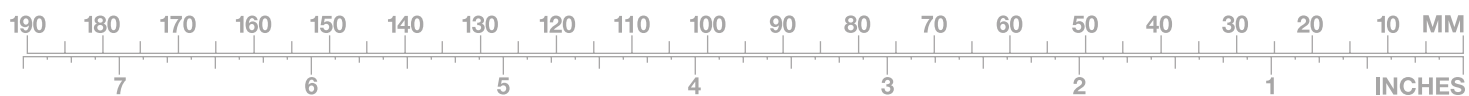
RS-8001 Shown

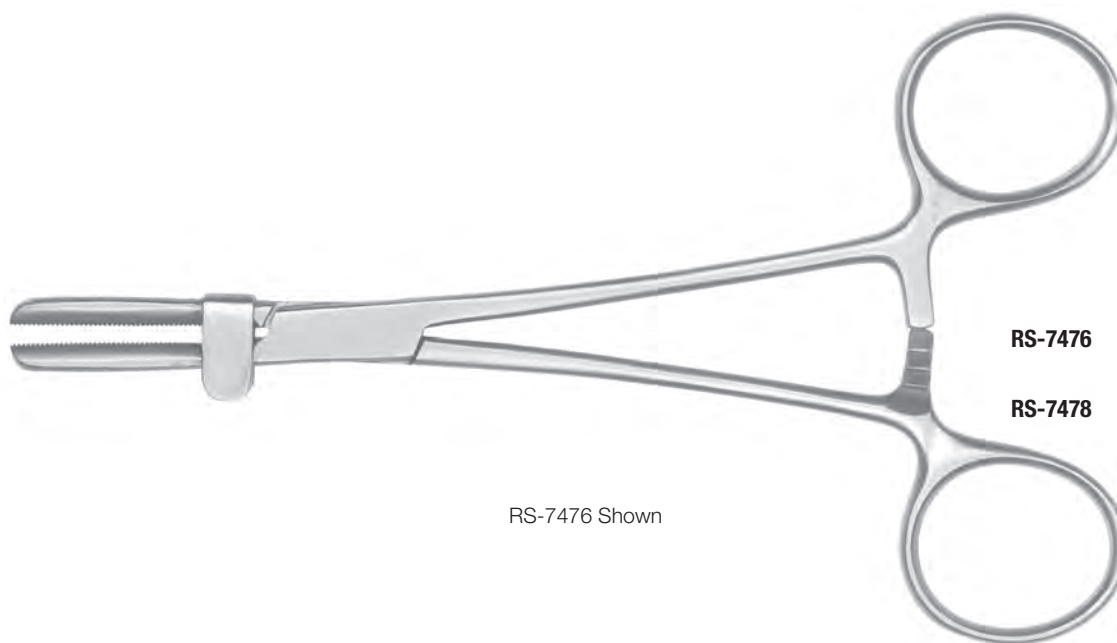
ALLIS**RS-8002**4 x 5 teeth
jaw width 4.5mm
length 6"**RS-8004**5 x 6 teeth
jaw width 5.8mm
length 6"

RS-8002 Shown

BABCOCK**RS-8020**jaw width 6mm
length 5¹/₂"**RS-8022**jaw width 9mm
length 6¹/₄"

RS-8020 Shown





RS-7476 Shown

RS-7476

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

length 5³/₄"
jaw width 4mm

RS-7478

length 7¹/₂"
jaw width 5.5mm

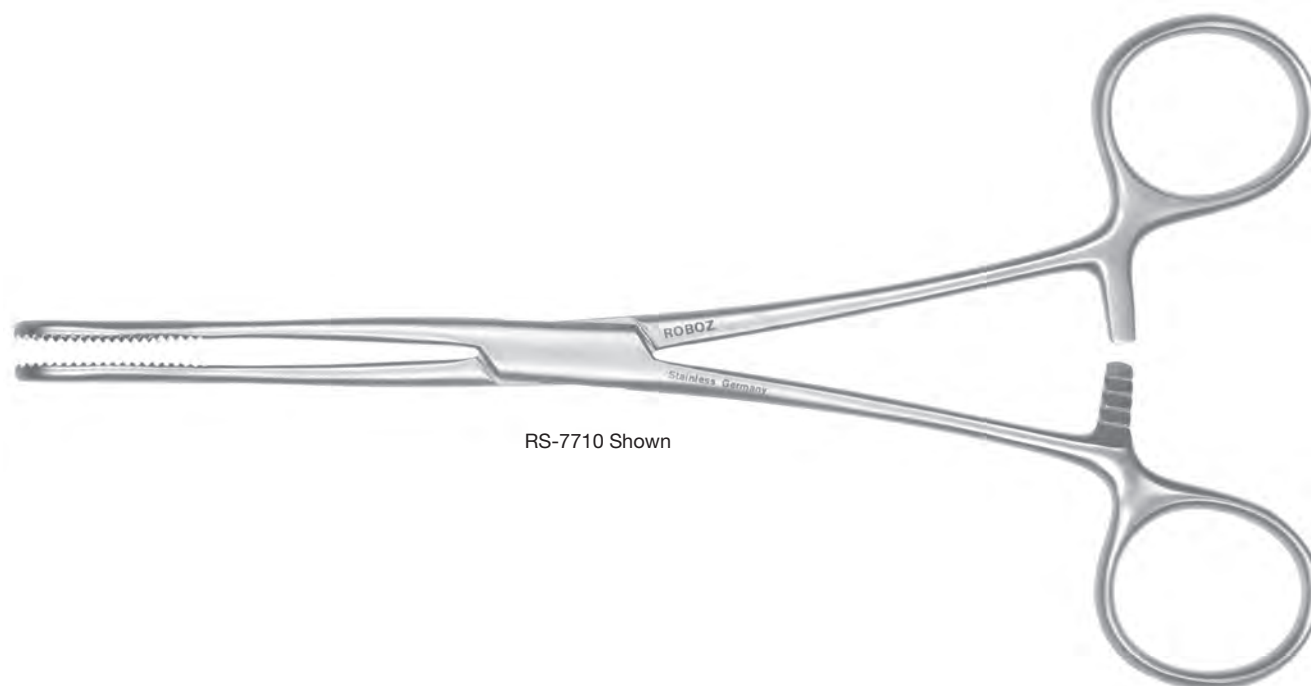
FOERSTER
sponge forceps

RS-7710

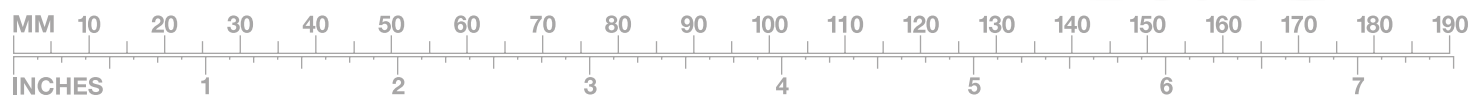
straight,
serrated jaws
length 7"
jaw width 11.5mm

RS-7720

straight, serrated jaws
length 9¹/₂"
jaw width 14.5mm



RS-7710 Shown



Tube Occluding Forceps

smooth jaws, straight

65-7480

length 4 1/2"

65-7490

length 7"



65-7480 Shown

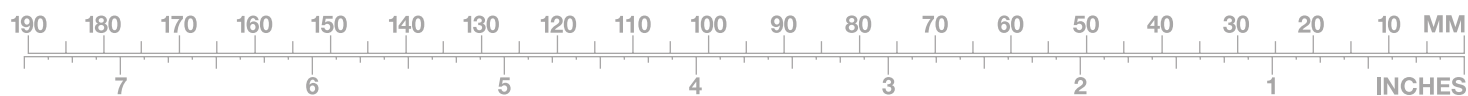
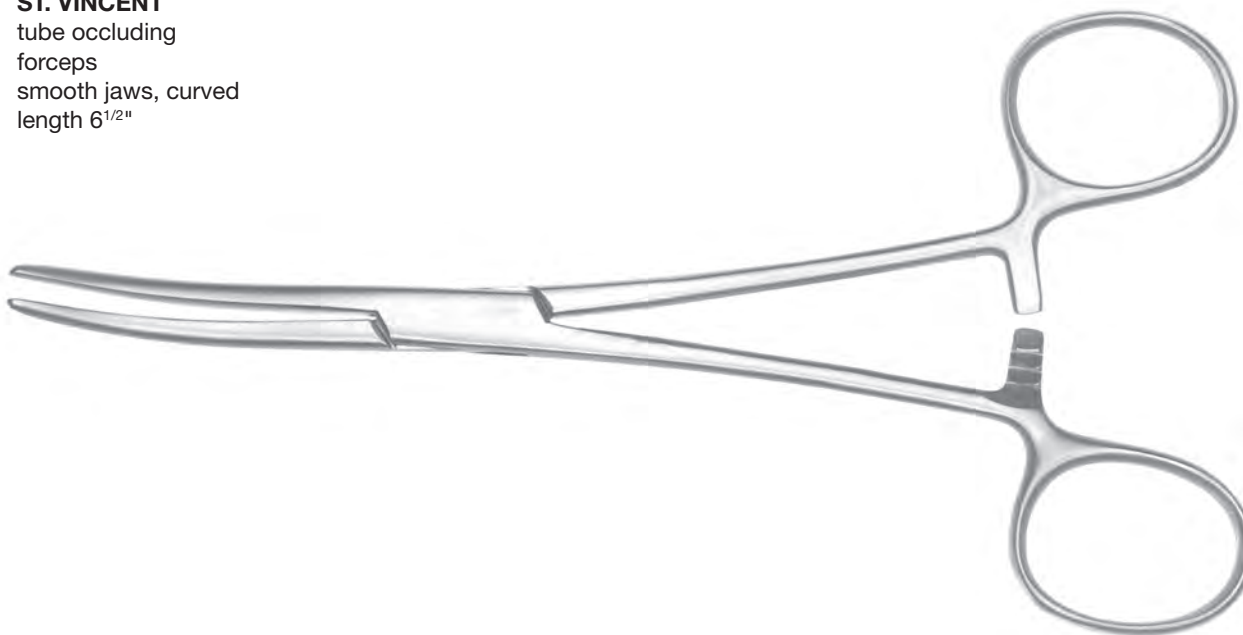
65-7487

ST. VINCENT

tube occluding
forceps

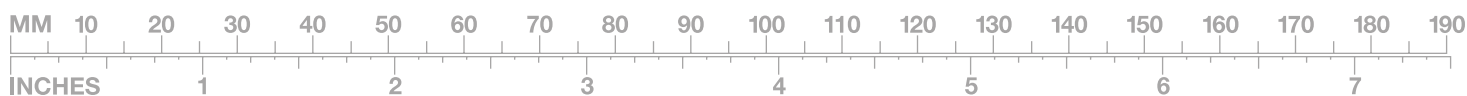
smooth jaws, curved

length 6 1/2"

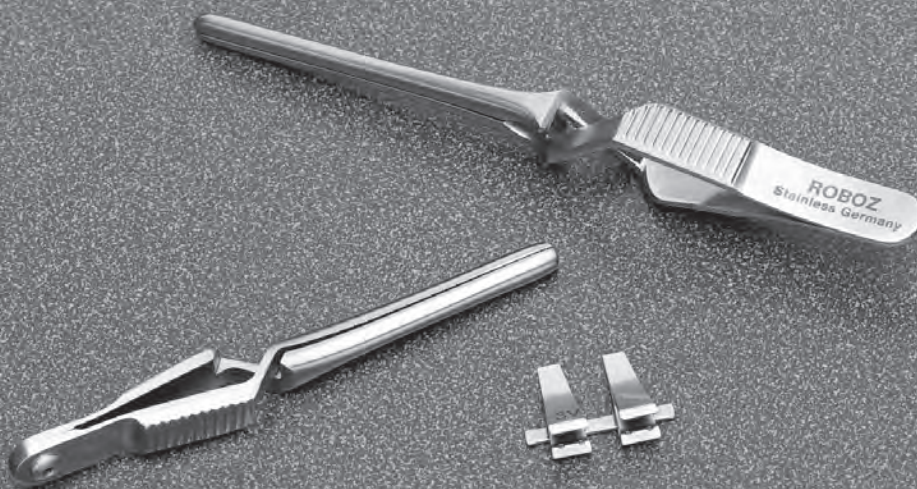


COMPARISON OF MILLIMETERS TO INCHES			
MM	INCHES	MM	INCHES
0.33	.013	6	.236
0.5	.020	6.33	.249
0.67	.026	6.5	.256
1	.039	6.67	.263
1.33	.052	7	.275
1.5	.059	7.33	.288
1.67	.066	7.5	.295
2	.079	7.67	.302
2.33	.092	8	.315
2.5	.098	8.33	.328
2.67	.105	8.5	.335
3	.118	8.67	.341
3.33	.131	9	.354
3.5	.138	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
50-110gr pressure
clip width 0.75mm
jaw length 5mm



RS-5422

Micro Clip

straight
50-110gr pressure
clip width 0.75mm
jaw length 6mm



RS-5424

Micro Clip

straight
50-110gr pressure
clip width 1mm
jaw length 8mm



RS-5426

Micro Clip

straight
50-110gr pressure
clip width 1.5mm
jaw length 10mm



RS-5431

Micro Clip

slight curve
50-110gr pressure
clip width 1mm
jaw length 6mm



RS-5433

Micro Clip

strong curve
50-110gr pressure
clip width 1mm
jaw length 6mm



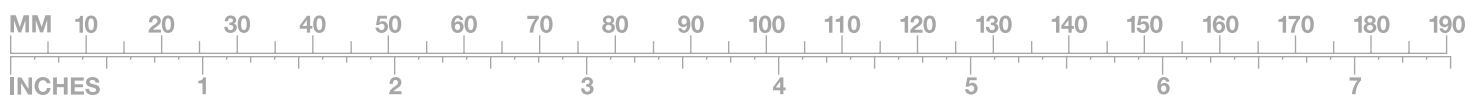
RS-5435

Micro Clip

45° angle
50-110gr 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 5¹/₂"



RS-5440

Micro Clip
applying forceps
with lock
length 5³/₄"



RS-5480

Micro Clip
applying forceps
with lock
length 5³/₄"
use with RS-5481T, RS-5482T



RS-5481T

Micro Clip
straight
50-110gr pressure
clip width 0.5mm
jaw length 5mm
Material: Titanium

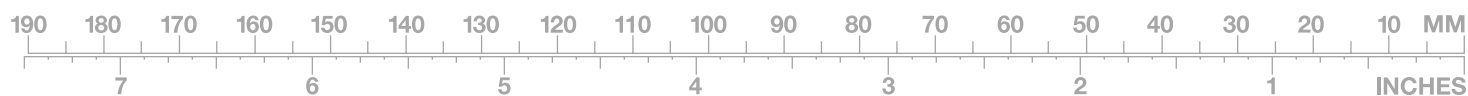


RS-5482T

Micro Clip
curved
50-110gr pressure
clip width 0.5mm
jaw length 5mm
Material: Titanium

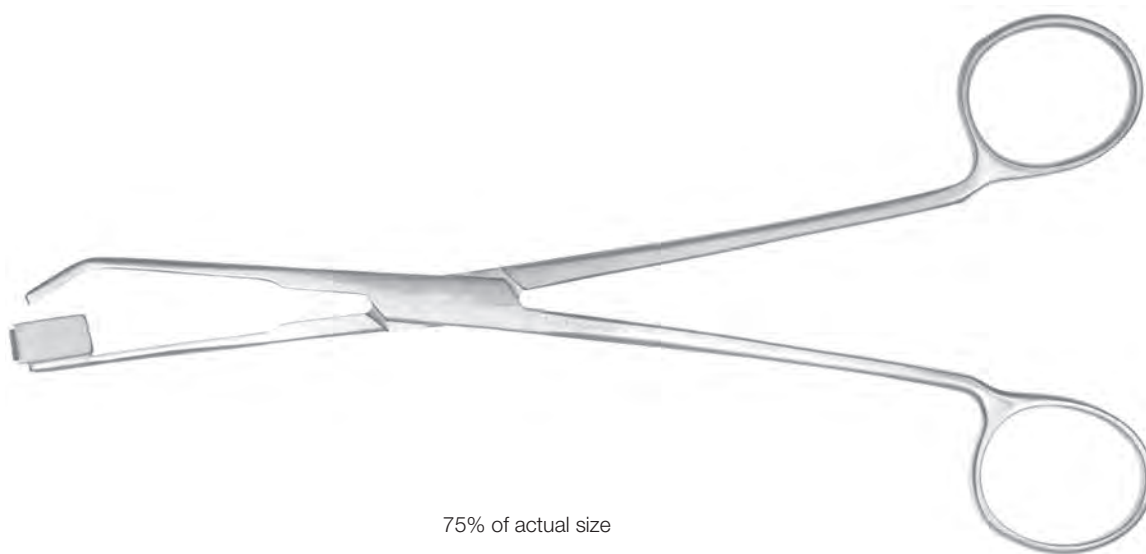


Clips and Clamps not intended for clinical use.



RS-5450

SCHWARTZ
clip applying forceps
for temporary clips
length 8"



75% of actual size

RS-5452

SCHWARTZ
temporary clip
straight, smooth
200-240gr pressure
jaw width 1.7mm
jaw length 8mm
clip length 1"



RS-5457

SCHWARTZ
temporary clip
slight angle, smooth
200-240gr pressure
jaw width 1.7mm
jaw length 8mm
clip length 1"

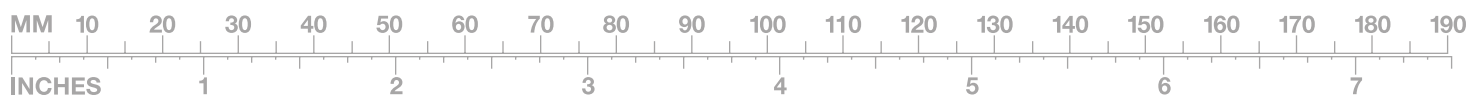


RS-5459

SCHWARTZ
temporary clip
strong angle, smooth
200-240gr 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



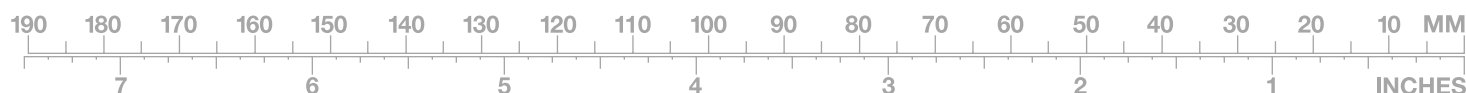
RS-6496

Micro Clip Setting

forceps
length 4³/₄"



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
200-240gr pressure
length 1 1/8"



RS-5471

DIEFFENBACH

serrefine
curved, very delicate
200-240gr pressure
length 1 1/8"



RS-7438

DIETRICH

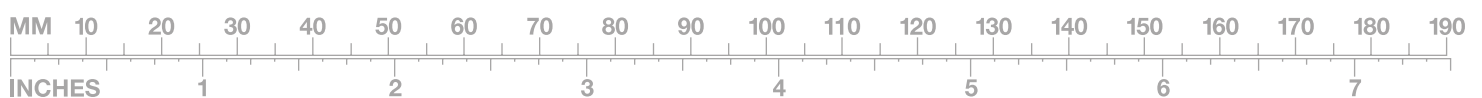
micro bulldog clamp
straight
50-110gr pressure
jaw length 8mm
jaw width 1.2mm
length 2"



RS-7439

DIETRICH

micro bulldog clamp
curved
50-110gr pressure
jaw length 8mm
jaw width 1.2mm
length 2"



JOHNS HOPKINS

bulldog clamp
straight
500-900gr pressure
length 1 1/2"

RS-7440

with rivet

RS-7440-35

without rivet



RS-7440 shown

JOHNS HOPKINS

bulldog clamp
curved
500-900gr pressure
length 1 1/2"

RS-7441

with rivet

RS-7441-35

without rivet



RS-7441 shown

JOHNS HOPKINS

bulldog clamp
straight
500-900gr pressure
length 2"

RS-7442

with rivet

RS-7442-50

without rivet



RS-7442 shown

JOHNS HOPKINS

bulldog clamp
curved
500-900gr pressure
length 2"

RS-7443

with rivet

RS-7443-50

without rivet



RS-7443 shown

RS-7444**JOHNS HOPKINS**

bulldog clamp
straight
500-900gr pressure
length 2 1/2"

**RS-7445****JOHNS HOPKINS**

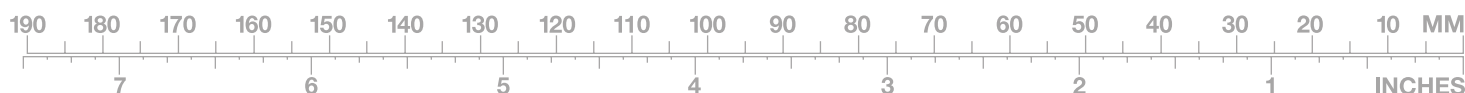
bulldog clamp
curved
500-900gr pressure
length 2 1/2"

**RS-7446****JOHNS HOPKINS**

bulldog clamp
straight
500-900gr pressure
length 3"

**RS-7447****JOHNS HOPKINS**

bulldog clamp
curved
500-900gr pressure
length 3"



RS-7500

DeBAKEY

atraumatic bulldog
clamp straight
130-200gr pressure
jaw length 2cm
overall length 7.5cm

RS-7511

DeBAKEY

atraumatic bulldog
clamp curved
130-200gr pressure
jaw length 2cm
overall length 7.5cm

RS-7530

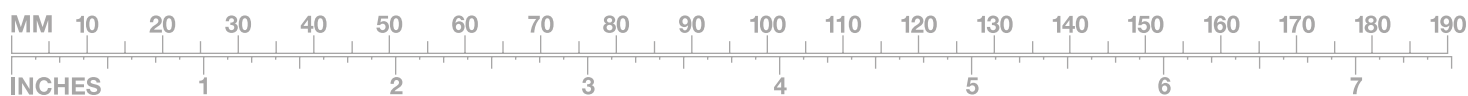
GLOVER

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 1/4"



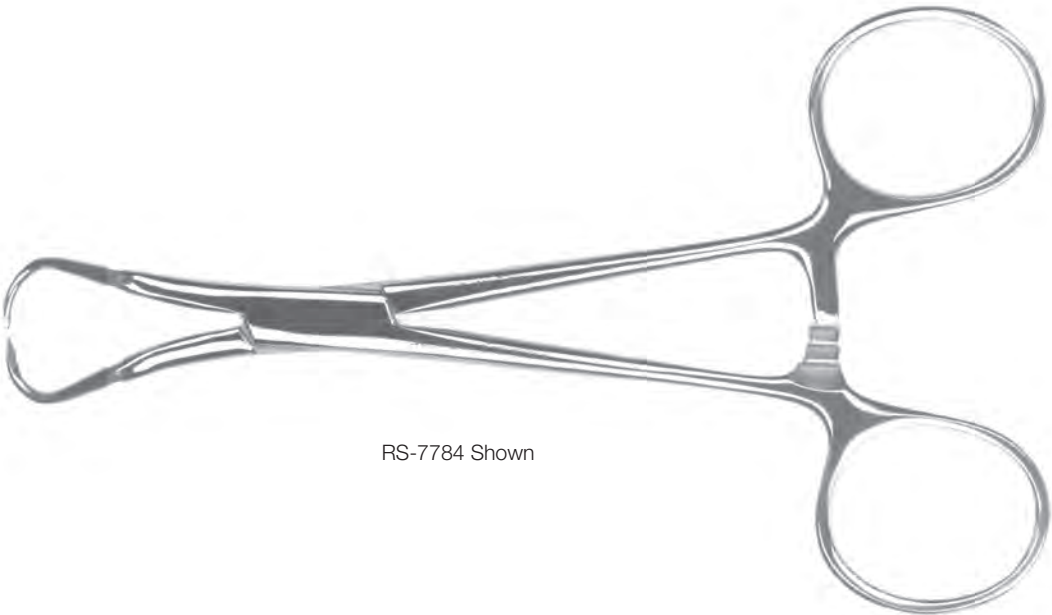
BACKHAUS
towel clamp

RS-7780

length 3 1/2"

RS-7784

length 5 1/4"



RS-7784 Shown

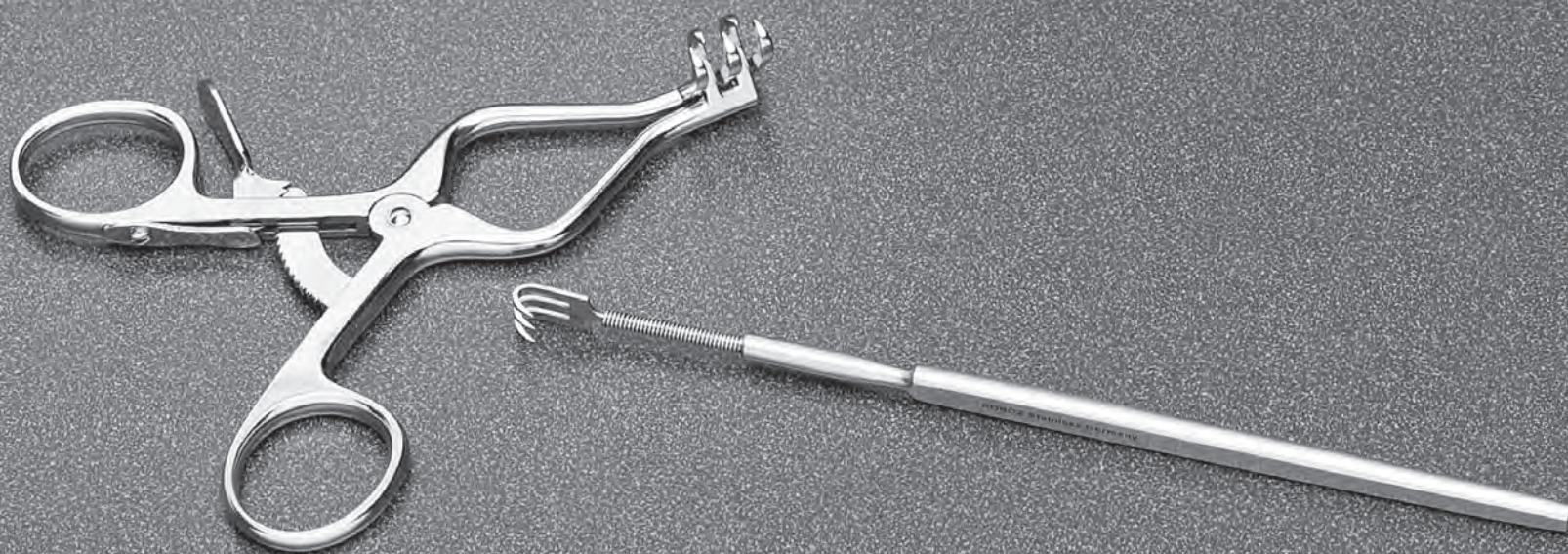


COMPARISON OF MILLIMETERS TO INCHES			
MM	INCHES	MM	INCHES
0.33	.013	6	.236
0.5	.020	6.33	.249
0.67	.026	6.5	.256
1	.039	6.67	.263
1.33	.052	7	.275
1.5	.059	7.33	.288
1.67	.066	7.5	.295
2	.079	7.67	.302
2.33	.092	8	.315
2.5	.098	8.33	.328
2.67	.105	8.5	.335
3	.118	8.67	.341
3.33	.131	9	.354
3.5	.138	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
3 x 3 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

3 x 3 prongs
depth 4mm
spread 25mm
length 1^{1/2}"

RS-6501

sharp

blunt



95% of actual size

RS-6502

GOLDSTEIN

3 x 3 prongs
depth 4mm
spread 19mm
length 1"

RS-6503

sharp

blunt



RS-6510 Shown

RS-6510

ALM

4 x 4 prongs
depth 3.5mm
spread 57mm
length 2^{3/4}"

RS-6511

blunt

sharp

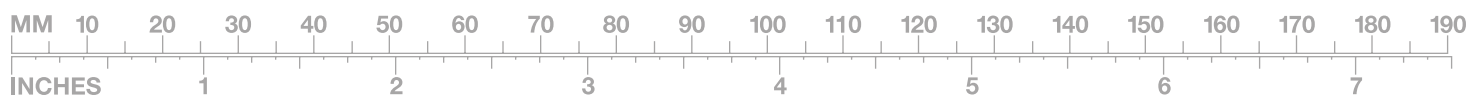
depth 5mm
spread 65mm
length 4"

RS-6514

blunt

RS-6515

sharp



CROSS ACTION RETRACTOR

with ratchet
depth 5 mm
spread 25mm
length 4"

RS-6520

angled
sharp, 4 x 4 prongs

RS-6521

angled
blunt, 4 x 4 prongs

RS-6524

straight
blunt, 4 x 4 prongs



RS-6521 Shown

RS-6540**BARRAQUER**

wire blades
depth 5 mm
spread 20mm
blade width 12mm
length 1³/₄"

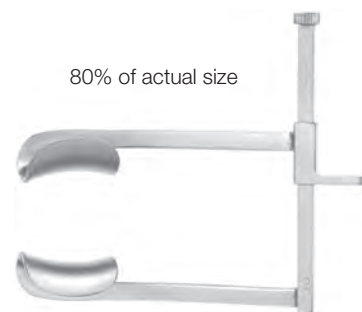
**RS-6550****MURDOCK**

non-magnetic, chrome
depth 5mm
spread 34mm
blade width 15mm
length 2¹/₄"

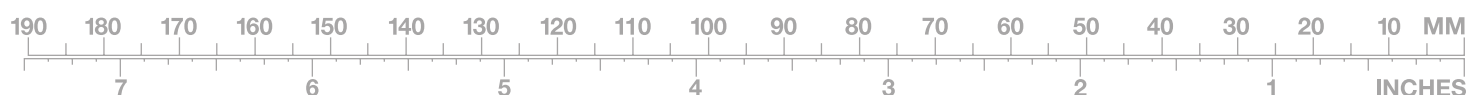
**RS-6560****McKINNEY RETRACTOR**

depth 6mm
spread 50mm
blade width 15mm
length 2¹/₂"

80% of actual size

**RS-6561****COOK**

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



RS-6570

CASTROVIEJO

non-magnetic
spread 35mm
blade width 15mm
blade depth 5mm
length 3³/₄"



RS-6585

DAVIS

3 x 3 blunt prongs
spread 63mm
depth 11mm
length 4¹/₂"

**SENN**

double end
length 6¹/₂"

RS-6610

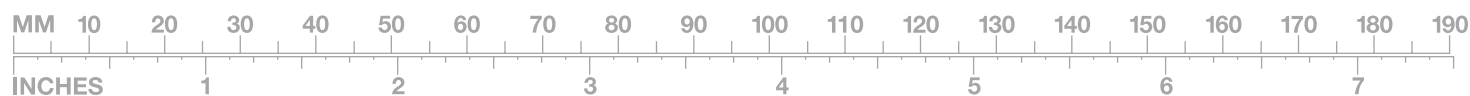
3 sharp prongs

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 6¹/₂"
2 prongs, blunt
blade width 7mm
depth 7mm



RS-6630

Rake retractor

rigid shaft
length 6¹/₂"
3 prongs, blunt
blade width 8mm
depth 5mm



RS-6156

McGANNON

micro dissecting retractor
2.5mm wide
length 5"

**DESMARRES**

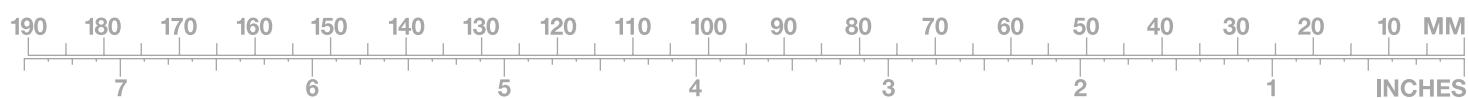
length 5¹/₂"

RS-6670

blade width 11mm

RS-6672

blade width 13mm





RS-8600 Shown

WEITLANER

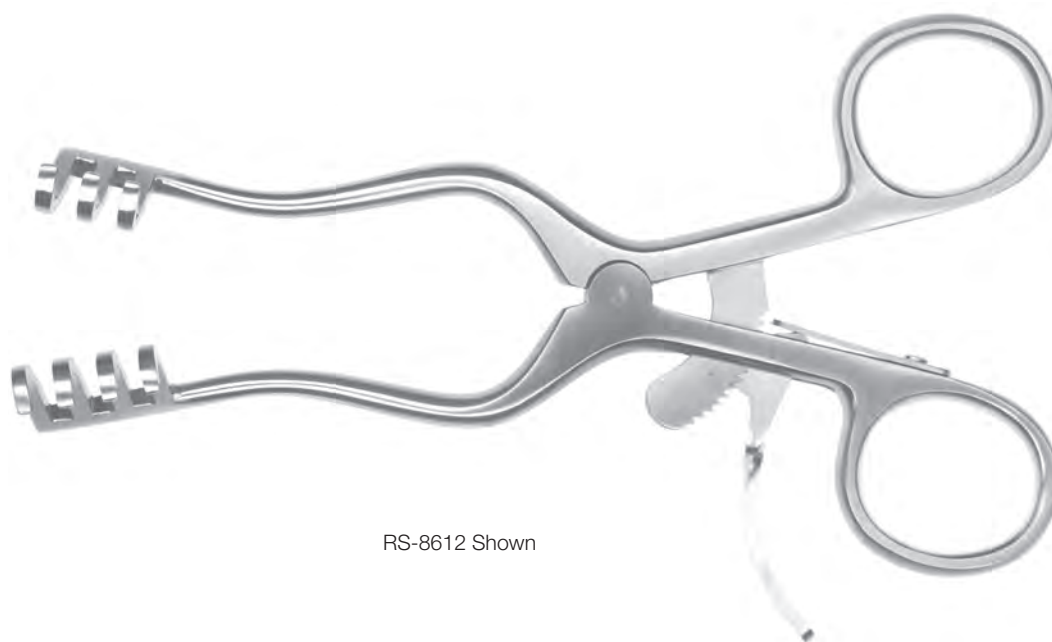
2 x 3 prongs
spread 38mm
depth 15mm
length 4"

RS-8600

sharp

RS-8602

blunt



RS-8612 Shown

WEITLANER

3 x 4 prongs, blunt

RS-8612

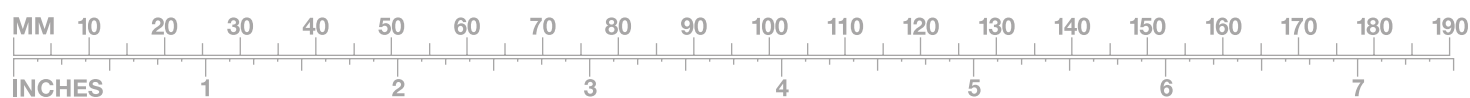
spread 44mm
depth 15mm
length 5^{1/2}"

RS-8614

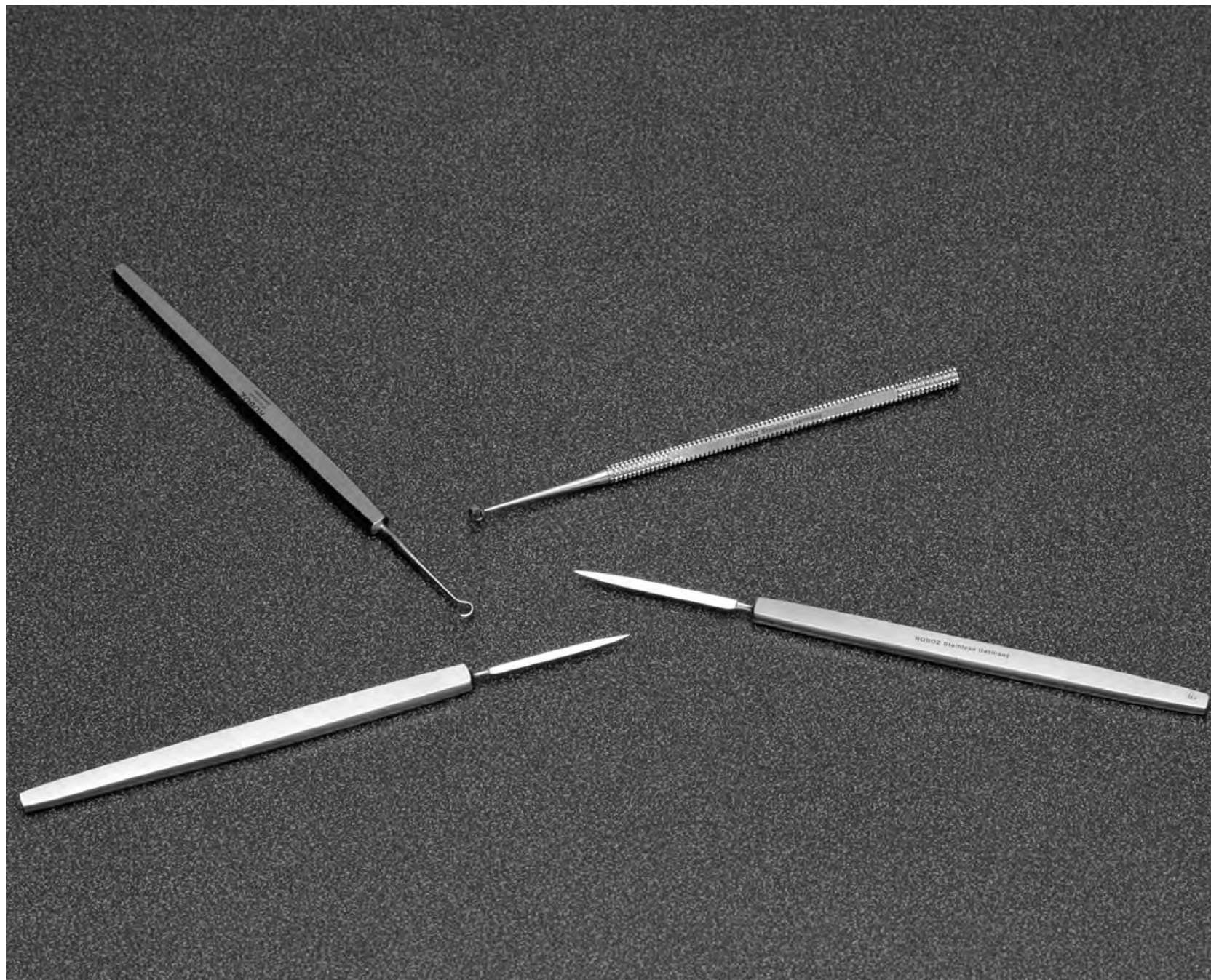
spread 88mm
depth 17mm
length 6^{1/2}"

RS-8616

spread 120mm
depth 19mm
length 8"



General Micro Dissecting Instruments



Micro Dissecting Needle Holders

RS-6060

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



For use with tungsten and micro dissecting needles only

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"



For use with tungsten and micro dissecting needles or insect pins

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.



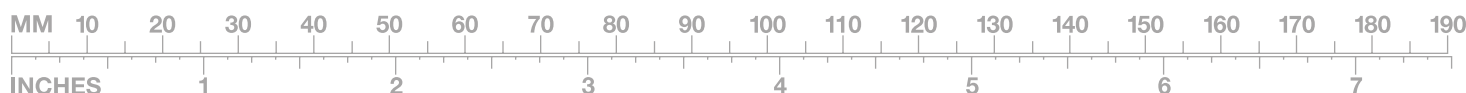
	Quantity	Rod diameter mm	Tip size µm	Length
RS-6063	10	0.125	1	2"
RS-6064	10	0.25	1	2"
RS-6065	10	0.5	1	2"

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"



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 µm	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 µm	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 µm	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"



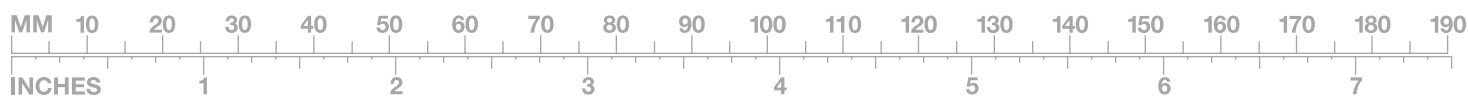
RS-6140

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 Probe6.25" length
straight**RS-9400**

0.04mm tip width

Not Actual Size

RS-9420

0.025mm tip width

Micro Probe6.25" length
25° angle**RS-9401-10**1mm tip length
0.04mm tip width

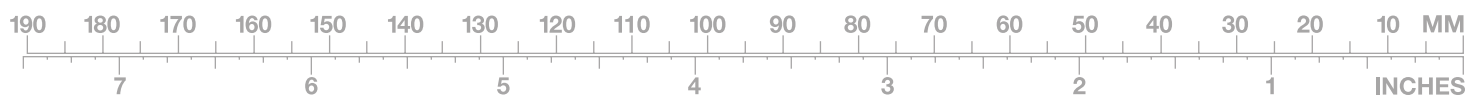
Not Actual Size

RS-9401-060.6mm tip length
0.04mm tip width**RS-9401-03**0.3mm tip length
0.04mm tip width**Micro Probe**6.25" length
45° angle**RS-9402-10**1mm tip length
0.04mm tip width

Not Actual Size

RS-9402-060.6mm 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**RS-9403-10**1mm tip length
0.04mm tip width

Not Actual Size

RS-9403-060.6mm 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 4¹/₄"**RS-6198****NUGENT**

micro dissecting hook

angular, sharp

length 5"



RS-6230 Shown

RS-6230**VON GRAEFE**

micro dissecting hook

length 5¹/₂"

hook length 8mm



Not Actual Size

37-5950**Chung Hook,**

20mm length,

3mm hook

**RS-9410****SCHUKNECHT**

rotating disk knife

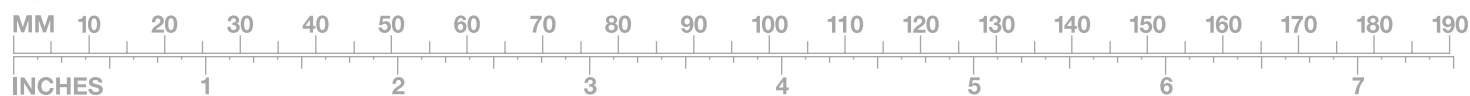
3mm disk diameter

disk in line with handle

**RS-9411****SCHUKNECHT**

rotating disk knife

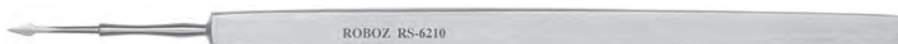
3mm disk diameter

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

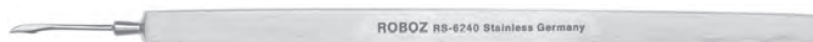
micro dissecting knife
curved blade 1 x 7mm
length 122mm



RS-6240

ZIEGLER

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



RS-6242

ZIEGLER

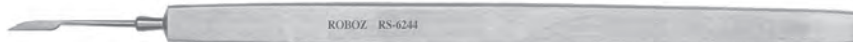
micro dissecting knife
no. 1, blade 5mm
overall length 111mm



RS-6244

ZIEGLER

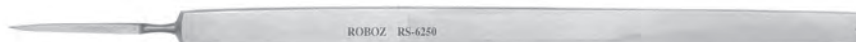
micro dissecting knife
no. 3, blade 7mm
overall length 113mm



RS-6250

GRAEFE

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



RS-6270

GRAEFE

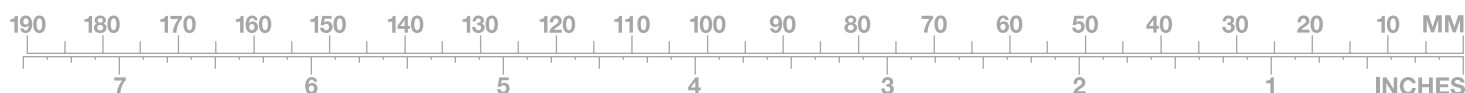
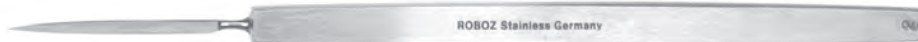
micro dissecting knife
no. 1, blade 1.5 x 25mm
overall length 120mm



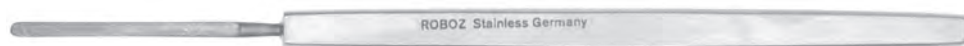
RS-6272

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

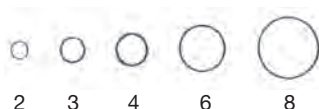
Biopsy Needle
with stylet
stainless steel

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:

RS-6330-2

2mm

RS-6330-3

3mm

RS-6330-4

4mm

RS-6330-6

6mm

RS-6330-8

8mm

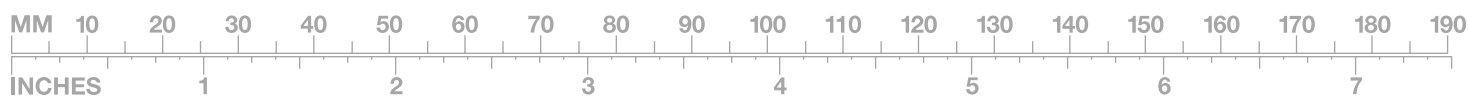


Please specify size when ordering

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

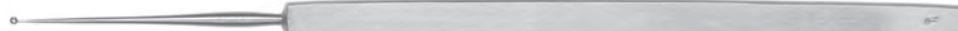
micro dissecting curette
2mm diameter
one side sharp
one side blunt
length 4"



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



(5/0)



(2/0)

RS-9040 Shown

MINI SPOON

length 5 1/4"

RS-6161

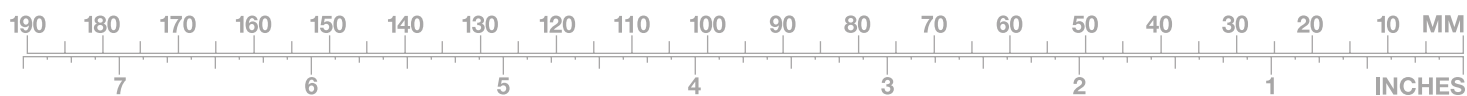
solid, 8mm diameter

RS-6160

perforated, 8mm diameter

RS-6162

perforated, 15mm diameter



RS-9454

BOWMAN

double ended
length 5"
0.9mm & 1.1mm tips

**Sterling Probe**

double ended, malleable
2mm tips

RS-9486

length 6"

RS-9490

length 8"



Not Actual Size

Sterling Probe

1.5mm tips
with eye

RS-9522

length 5.5"

RS-9528

length 7"



Not Actual Size

RS-9580

Probe and Blunt

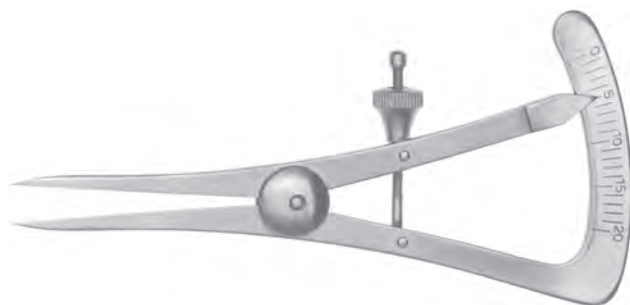
Separator
one end semi-blunt
one end tapered and flat
length 6¹/₄"



RS-6460

CASTROVIEJO

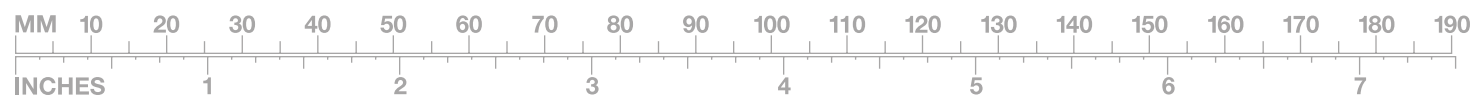
caliper
20mm scale
length 3¹/₄"



RS-6466

JAMESON

caliper
80mm/3" scale
chrome plated
length 3³/₄"



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

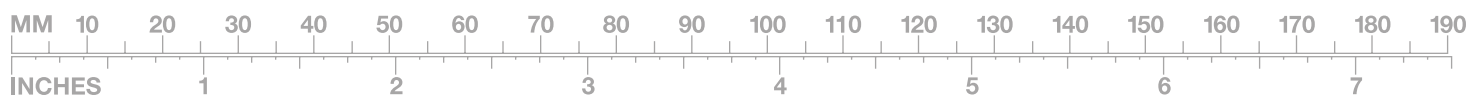
angled
cutting edge 5mm
tip width 0.1mm
overall length 3"



RS-5607

McPHERSON-VANNAS

angled on flat
cutting edge 5mm
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**

cutting edge 2mm
overall length 3.5"

RS-5640

straight, 0.05mm
tip width

RS-5641

curved, 0.05mm
tip width

RS-5608

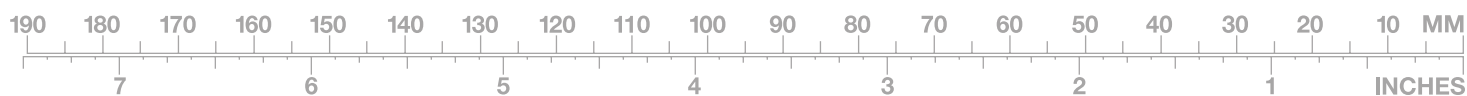
straight, 0.15mm
tip width

RS-5609

curved, 0.15mm
tip width



RS-5640 Shown





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-5621 Shown

RS-5620

VANNAS

cutting edge 3mm
overall length 3.5"

RS-5621

straight, tip width
0.1mm
curved, tip width
0.1mm

RS-5610

straight, tip width
0.15mm

RS-5611

curved, tip width
0.15mm



RS-5650 Shown

RS-5650

CASTROVIEJO

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

RS-5651

standard, sharp
standard, blunt

RS-5650SC

SURE CUT*, sharp



RS-5658 Shown

RS-5658

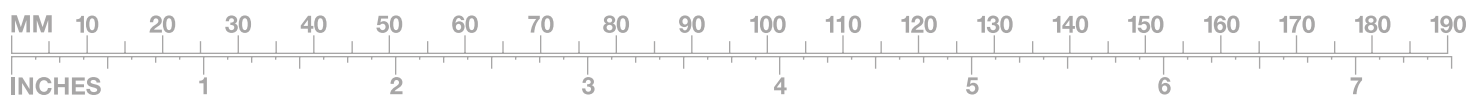
CASTROVIEJO

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

RS-5658SC

standard
SURE CUT*

* See page 160 for details on Sure Cut scissors



RS-5658BT

CASTROVIEJO

angled on edge
one 1.1mm ball tip
cutting edge 10mm
tip width 0.15mm
overall length 3¹/₂"



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 3¹/₂"



RS-5671

CASTROVIEJO

curved, sharp
cutting edge 10mm
tip width 0.15mm
overall length 3³/₄"



RS-5673

CASTROVIEJO

curved, blunt
cutting edge 10mm
tip width 0.15mm
overall length 3¹/₂"



RS-5674

NOYES

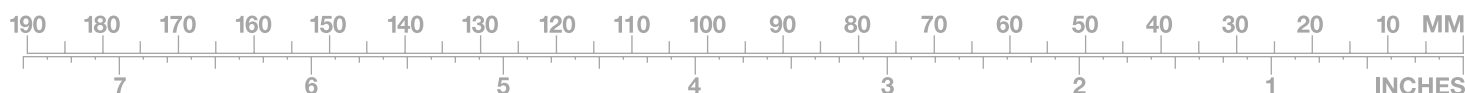
13mm blades
curved on flat, blunt
tip width 0.25mm
overall length 4¹/₂"



RS-5675

NOYES

slightly curved, sharp
cutting edge 13mm
tip width 0.25mm
overall length 4¹/₂"





RS-5676 Shown

RS-5676

NOYES

straight, sharp
cutting edge 13mm
overall length 4^{1/2}"

RS-5676SC

standard
tip width 0.15mm

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}"

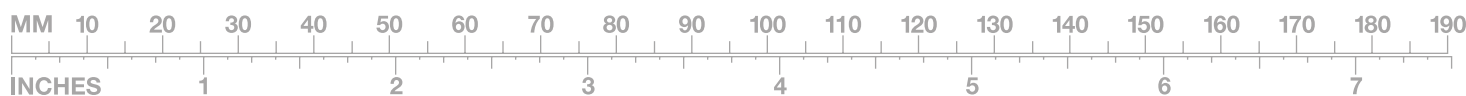


RS-5680

Micro Dissecting

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

* See page 160 for details on Sure Cut scissors



RS-5681

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



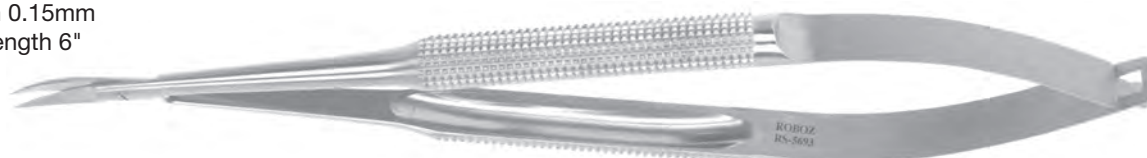
RS-5692

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 1/4"

**Micro-Mini Pencil Handle Scissors**

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

RS-5805

vertical cutting

RS-5806

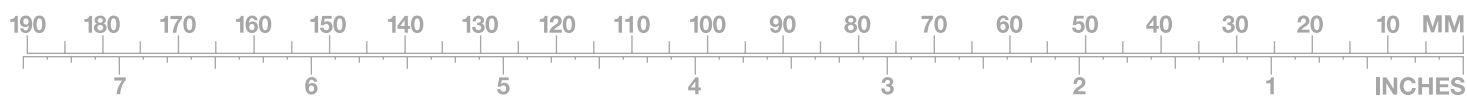
horizontal cutting

RS-5807

angled blades



RS-5805 Shown





RS-5830 Shown

	Micro Dissecting
	extra short blades
	8mm blades
	0.4mm combined tip width
	length 4"
RS-5830	straight, sharp
RS-5831	curved



RS-5880 Shown

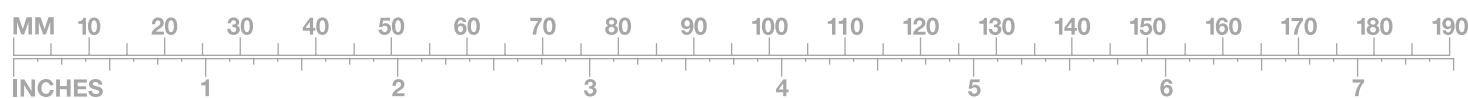
	Micro Dissecting
	extra fine
	very sharp points
	0.4mm comb. tip width
	20mm blades
	length 3 ^{1/2} "
RS-5880	straight
RS-5881	curved



RS-5840 Shown

	BONN
	15mm blades
	length 3 ^{1/2} "
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

* See page 160 for details on Sure Cut, Tungsten Carbide, and Ceramic Coated scissors



Micro Dissecting

14mm blades
flat shanks & large rings
length 3³/₄"

RS-5850

straight, sharp

RS-5851

curved, sharp



RS-5850 Shown

Micro Dissecting

23mm blades
flat shanks & large rings
length 4"

RS-5852

straight, sharp

RS-5853

curved, sharp



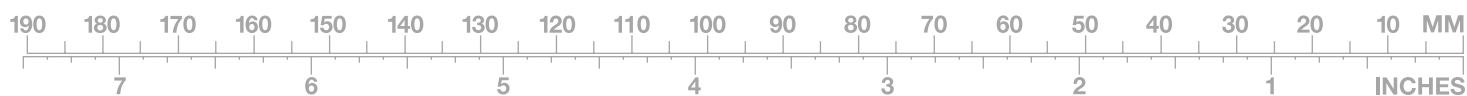
RS-5852 Shown

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-5882 Shown

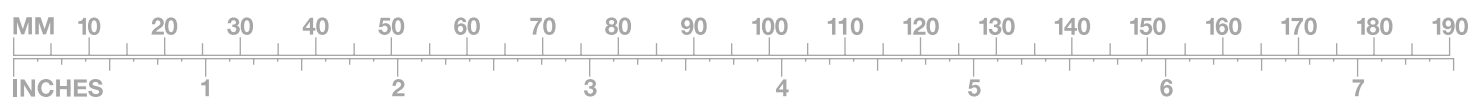
RS-5882

Micro Dissecting
length 4"

straight, sharp
blade length 24mm

RS-5883

curved, sharp
blade length 24mm



Micro Dissecting

blade length 23mm

length 3¹/₂"

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 4¹/₂"

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

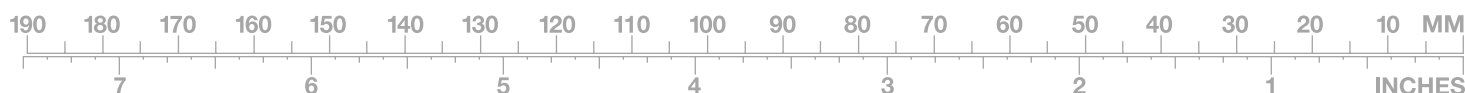
length 4¹/₂"

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



RS-5913 Shown

* See page 160 for details on Sure Cut, Tungsten Carbide, and Ceramic Coated scissors





RS-5918

Micro Dissecting
angled, sharp
blade length 25mm
length 4^{1/2}"



RS-5921

Micro Dissecting
curved on side, sharp
blade length 22mm
length 4^{1/2}"



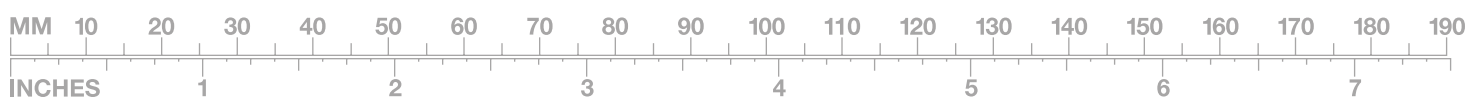
RS-5925

LA GRANGE
double curve
sharp serrated
blade length 18mm
length 4^{1/4}"



RS-5928

OBRIEN
angular
blade length 14mm
length 3^{3/4}"



RS-5930

McGUIRE

curved on flat
blade length 15mm
length 4"



RS-5940

STEVENS

blade length 19mm
length 4¹/₄"

straight, sharp

RS-5941

curved, sharp



RS-5940 Shown

RS-5942

STEVENS

blade length 19mm
length 4¹/₄"

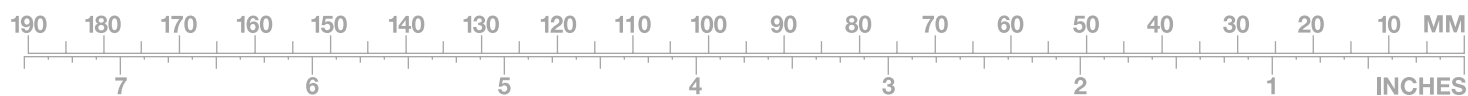
straight, blunt

RS-5943

curved, blunt



RS-5942 Shown





RS-5960 Shown

KNAPP

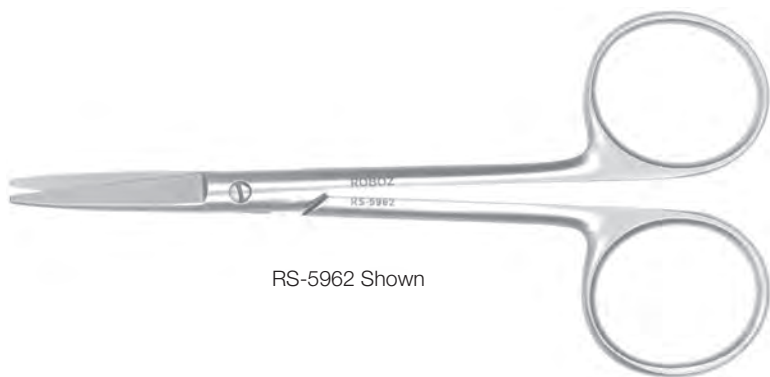
blade length 27mm
length 4"

RS-5960

straight, sharp-blunt

RS-5963

curved, sharp-blunt



RS-5962 Shown

KNAPP

blade length 27mm
length 4"

RS-5962

straight, blunt-blunt

RS-5965

curved, blunt-blunt



RS-5980 Shown

Micro Dissecting

blade length 22mm
length 4"

RS-5980

straight, blunt

RS-5981

curved, blunt

Micro Dissecting
blade length 25mm
length 4¹/₂"

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



RS-5983 Shown

-
- RS-5990 **Probe Point Scissors**
blade length 26mm
length 4"
straight



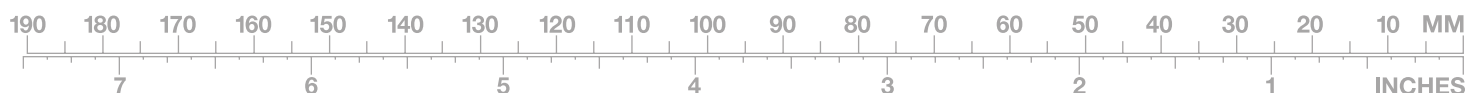
RS-5990 Shown

-
- Artery Scissors**
one sharp tip
one ball-point tip
- RS-5991 20mm blade
length 3¹/₂"
 - RS-5992 30mm blade
length 4³/₄"



RS-5991 Shown

* See page 160 for details on Tungsten Carbide scissors





RS-5998

Probe Point Scissors

angled
blade length 24mm
length 4^{1/2}"



RS-8468

BEEBEE

bone shears
strong blades
blade length 18mm
length 4"



RS-6013 Shown

METZENBAUM

length 5"

RS-6010

straight, blunt
blade length 25mm

RS-6010SC

SURE CUT*
straight, blunt
blade length 25mm

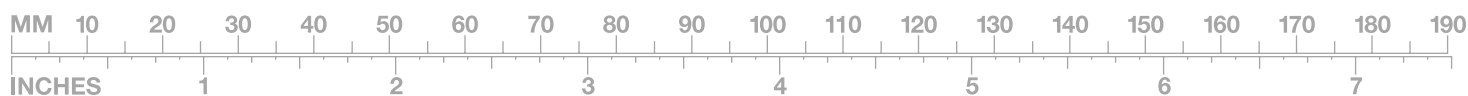
RS-6013

curved, blunt
blade length 27mm

RS-6013SC

SURE CUT*
curved, blunt
blade length 27mm

* See page 160 for details on Sure Cut scissors



RS-6015

RAGNELL

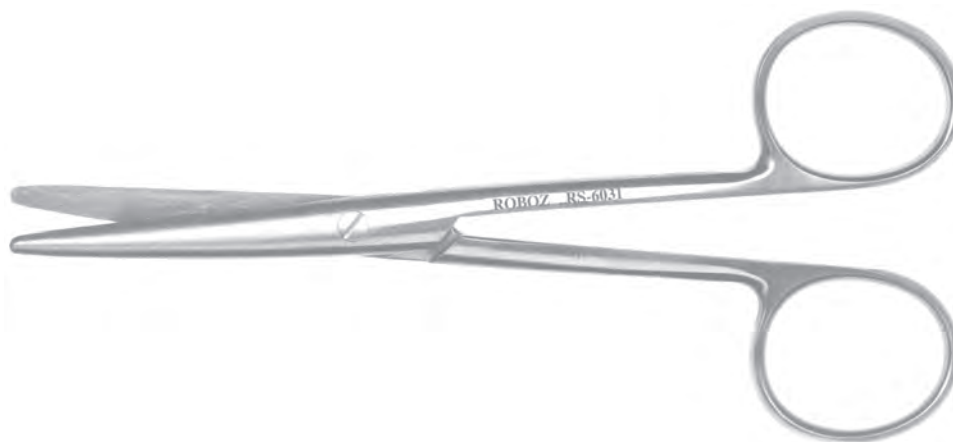
curved
slender blunt points
blade length 27mm
length 5"



RS-6031

Micro Dissecting

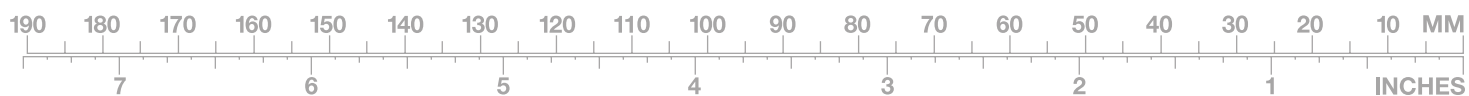
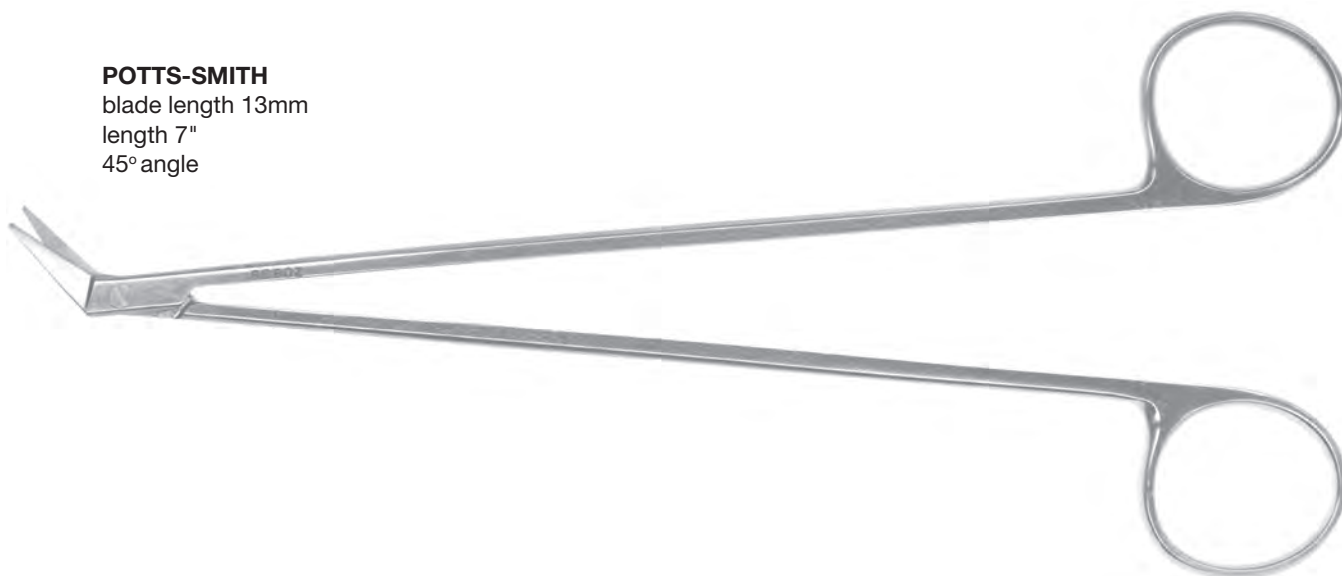
blade length 40mm
length 5"
light curve, blunt



RS-6043

POTTS-SMITH

blade length 13mm
length 7"
45° angle



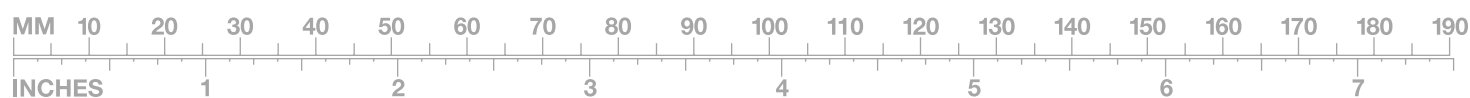
KELLY
blade length 29mm
length 6^{1/4"}

RS-6050 straight, sharp
RS-6051 curved, sharp



RS-6050 Shown

RS-6058 **KELLY**
angled, sharp
blade length 29mm
length 6^{1/4"}



Light Operating
blade length 30mm
length 4³/₄"

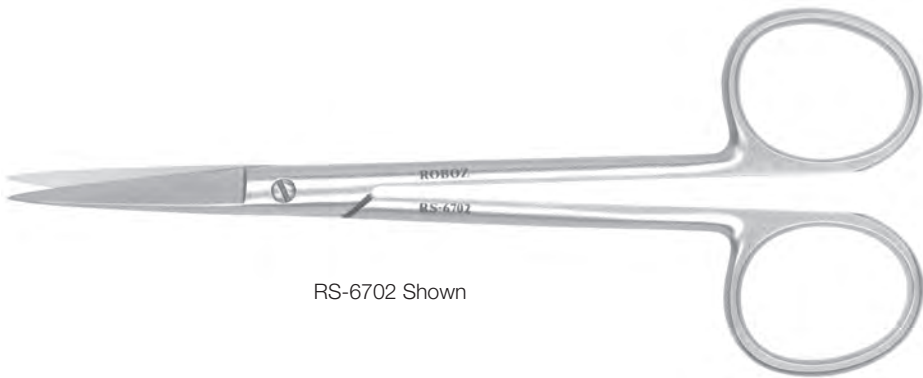
- RS-6700 straight, sharp-blunt
- RS-6706 curved, sharp-blunt



RS-6700 Shown

Light Operating
blade length 30mm
length 4³/₄"

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



RS-6702 Shown

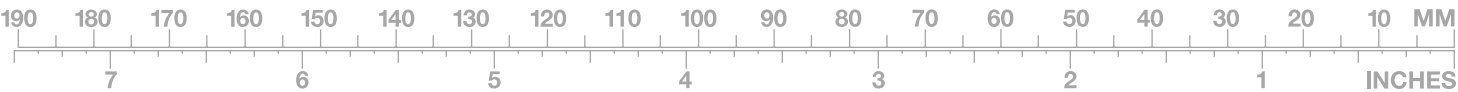
Light Operating
curved, blunt
blade length 30mm
length 4³/₄"

- RS-6705



Light Operating
angled, sharp
blade length 30mm
length 4³/₄"

- RS-6708



BROPHYblade length 40mm
length 5^{1/2}"**RS-6730**

straight, sharp

RS-6731

curved, sharp



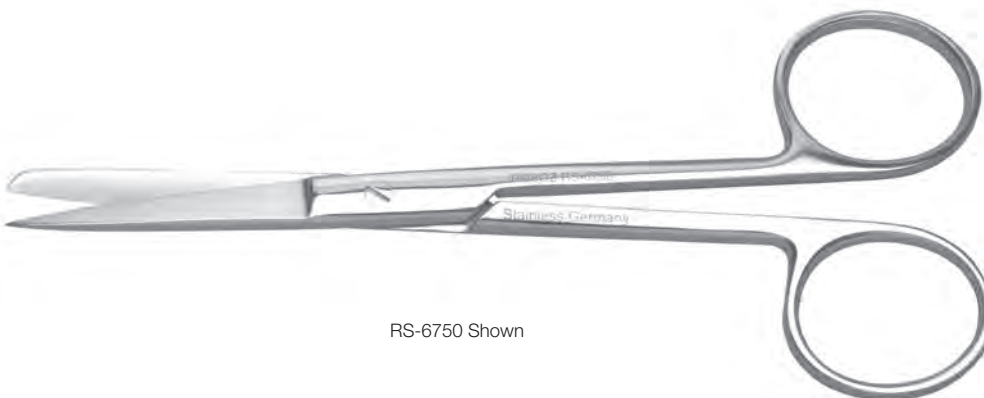
RS-6730 Shown

Light Operatingblade length 40mm
length 5"**RS-6750**

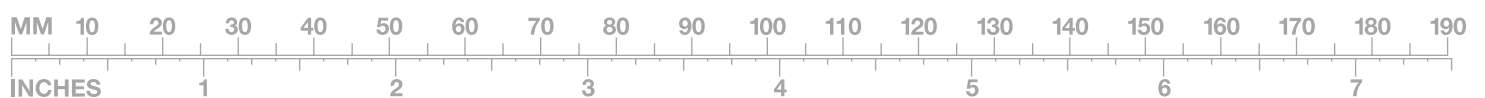
straight, sharp-blunt

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



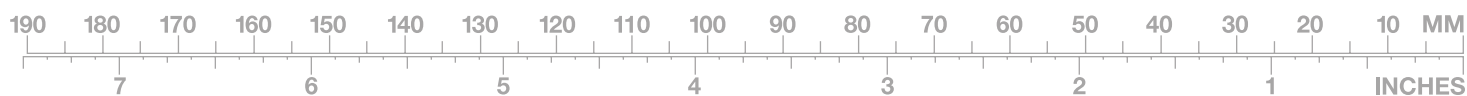
RS-6754 Shown

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 5¹/₂"

RS-6762

straight, sharp-sharp

RS-6763

curved, sharp-sharp



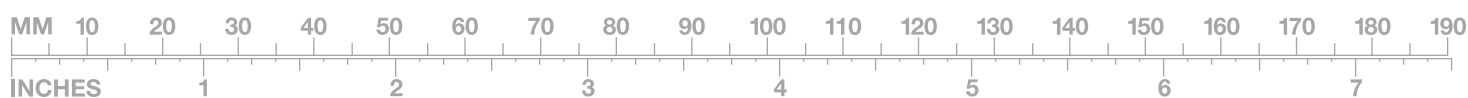
RS-6762 Shown

RS-6780**PERMA-SET***

straight, sharp-blunt
blade length 45mm
length 5¹/₂"

**RS-6782****PERMA-SET***

straight, sharp-sharp
blade length 45mm
length 5¹/₂"



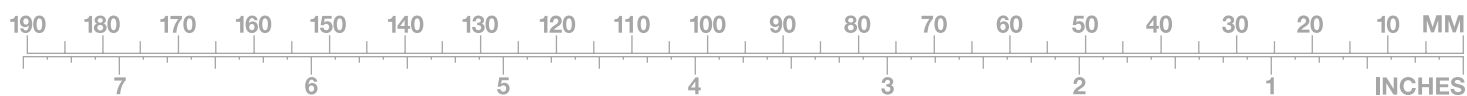
Operating
sharp-blunt

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



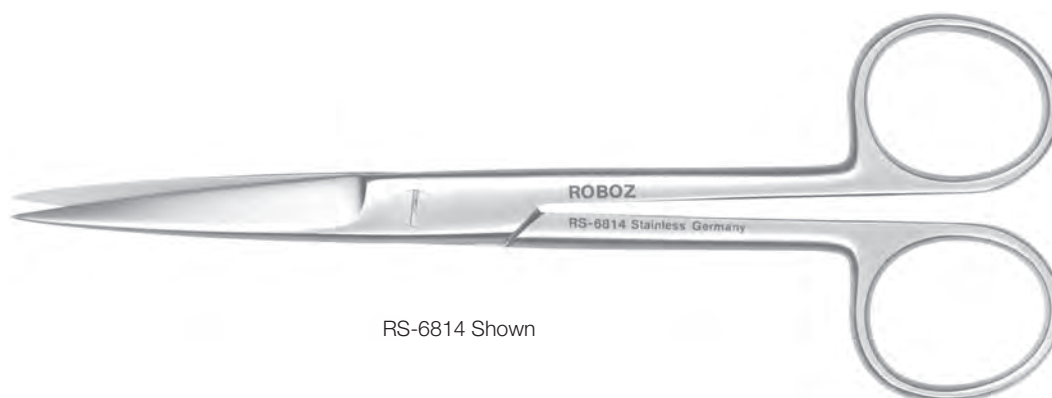
RS-6812 Shown

* See page 160 for details on Sure Cut, Tungsten Carbide, and Perma-Set scissors



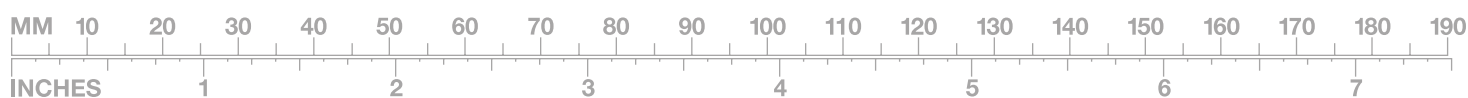
Operating
 sharp-sharp

RS-6802	straight, length 4 $\frac{1}{2}$ "
RS-6808	straight, length 5"
RS-6814	straight, length 5 $\frac{1}{2}$ "
RS-6814SC	straight, SURE CUT*, length 5 $\frac{1}{2}$ "
RS-6820	straight, length 6"
RS-6826	straight, length 6 $\frac{1}{2}$ "
RS-6834	straight, tungsten carbide* length 5 $\frac{1}{2}$ "
RS-6855	straight, length 7 $\frac{1}{2}$ "
RS-6839	curved, length 4 $\frac{1}{2}$ "
RS-6840	curved, length 5"
RS-6845	curved, length 5 $\frac{1}{2}$ "
RS-6845SC	curved, SURE CUT*, length 5 $\frac{1}{2}$ "
RS-6835	curved, tungsten carbide* length 5 $\frac{1}{2}$ "
RS-6846	curved, length 6"
RS-6851	curved, length 6 $\frac{1}{2}$ "
RS-6856	curved, length 7 $\frac{1}{2}$ "



RS-6814 Shown

* See page 160 for details on Sure Cut and Tungsten Carbide scissors

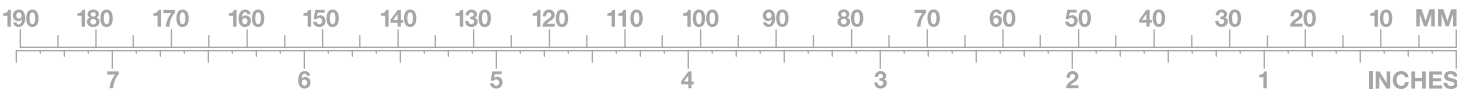


Operating
blunt-blunt

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



RS-6816 Shown



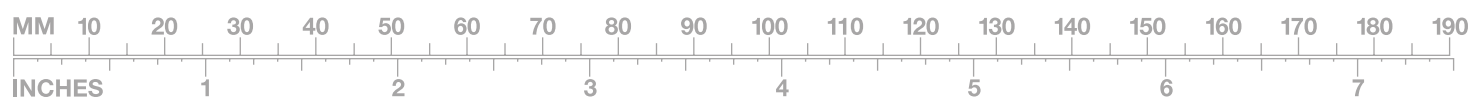
MAYO
 straight

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



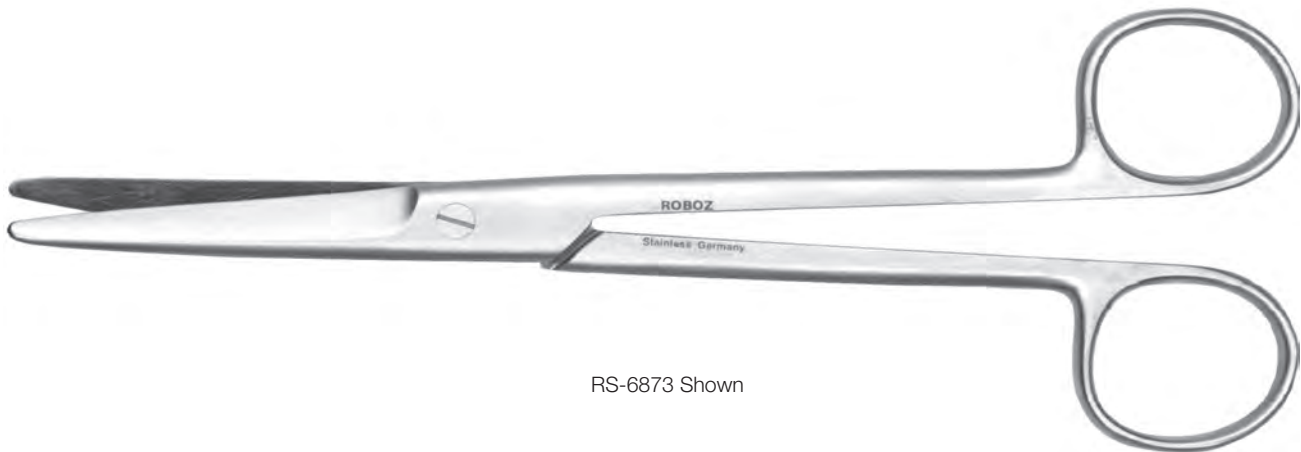
RS-6870 Shown

* See page 160 for details on Sure Cut and Tungsten Carbide scissors

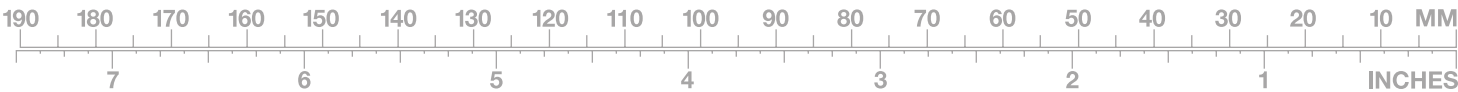


MAYO
curved

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



RS-6873 Shown

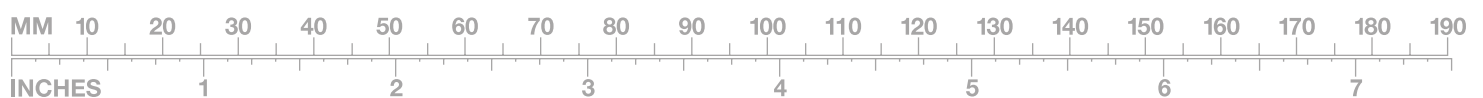


MAYO-STILLE
rounded blades

RS-6890	straight blade length 42mm length 5 ¹ / ₂ "
RS-6892	straight blade length 49mm length 6 ³ / ₄ "
RS-6891	curved blade length 42mm length 5 ¹ / ₂ "
RS-6893	curved blade length 49mm length 6 ³ / ₄ "



RS-6890 Shown



MAYO-NOBLE
blade length 48mm
length 6¹/₂"

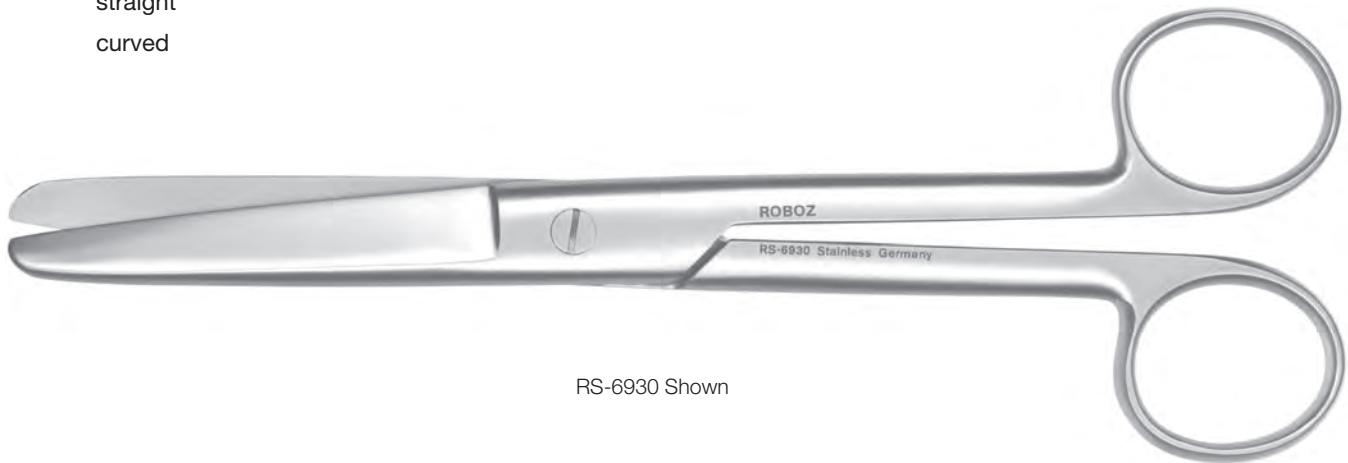
- RS-6920 straight
- RS-6921 curved



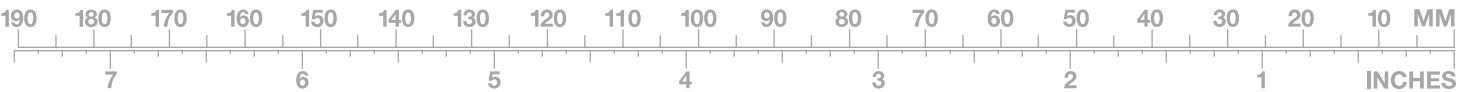
RS-6920 Shown

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 6¹/₂"

RS-6940

straight

RS-6941

curved



RS-6940 Shown

Veterinary
heavy pattern
blunt-blunt, serrated
blade length 57mm
length 6¹/₂"

RS-6942

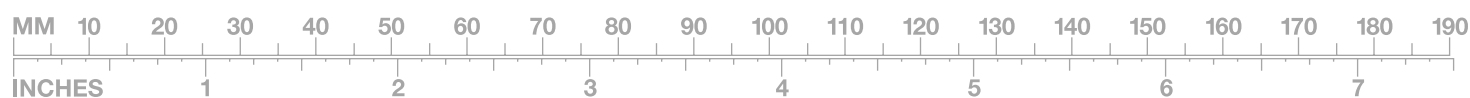
straight

RS-6943

curved



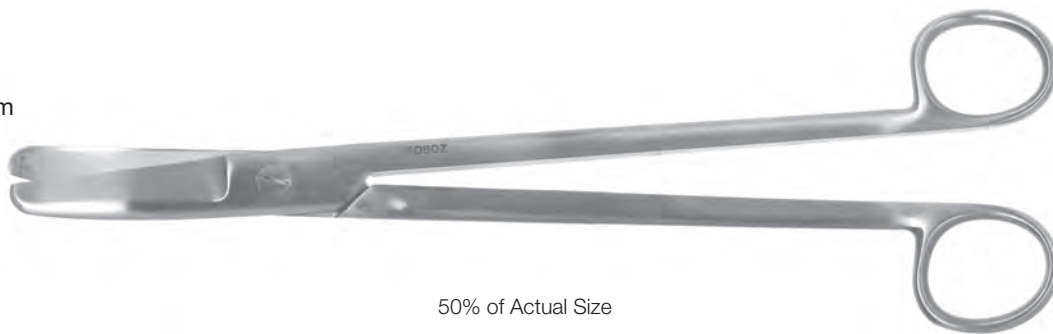
RS-6942 Shown



RS-6947

DuBOIS

decapitation
curved, serrated
blade length 57mm
length 10¹/₂"



50% of Actual Size

METZENBAUM

straight

RS-6950

blade length 39mm
length 5³/₄" (Lahey)

RS-6950SC

blade length 39mm
length 5³/₄" (Lahey), SURE CUT*

RS-6964

blade length 39mm
length 5³/₄" (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*

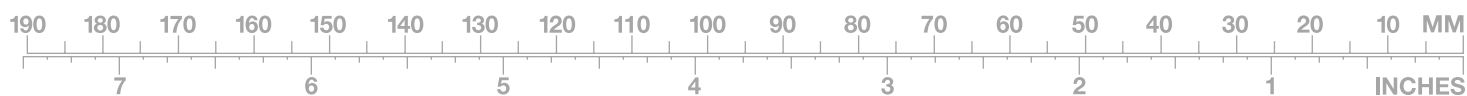
RS-6966

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



RS-6950 Shown

* See page 160 for details on Sure Cut and Tungsten Carbide, scissors





RS-6960 Shown

METZENBAUM
extra delicate
straight
blade length 39mm

RS-6960length 5³/₄"**RS-6961**length 5³/₄"
tungsten carbide***RS-6962**

length 7"

RS-6963length 7"
tungsten carbide*

RS-6959 Shown

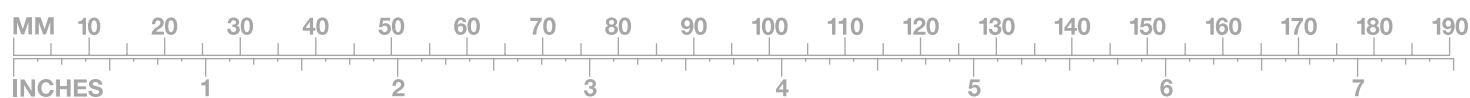
METZENBAUM
extra delicate
curved
blade length 39mm

RS-6959length 5³/₄"**RS-6967**length 5³/₄"
tungsten carbide***RS-6957**

length 7"

RS-6956tungsten carbide*
length 7"**RS-6954SC**SURE CUT*
length 7"**RS-6955SC**SURE CUT*
tungsten carbide
blades
length 7"

* See page 160 for details on Sure Cut and Tungsten Carbide scissors



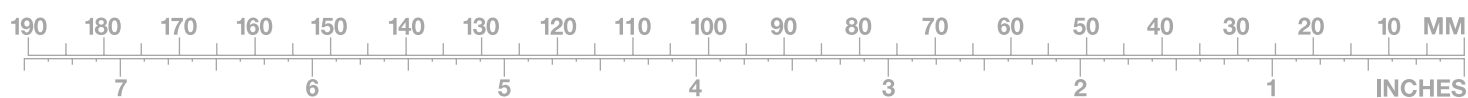
METZENBAUM

curved

RS-6951	blade length 39mm length 5 ³ / ₄ " (Lahey)
RS-6951SC	SURE CUT* blade length 39mm length 5 ³ / ₄ " (Lahey)
RS-6958	tungsten carbide* blade length 39mm length 5 ³ / ₄ " (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*
RS-6965SC	length 7" tungsten carbide* SURE CUT*



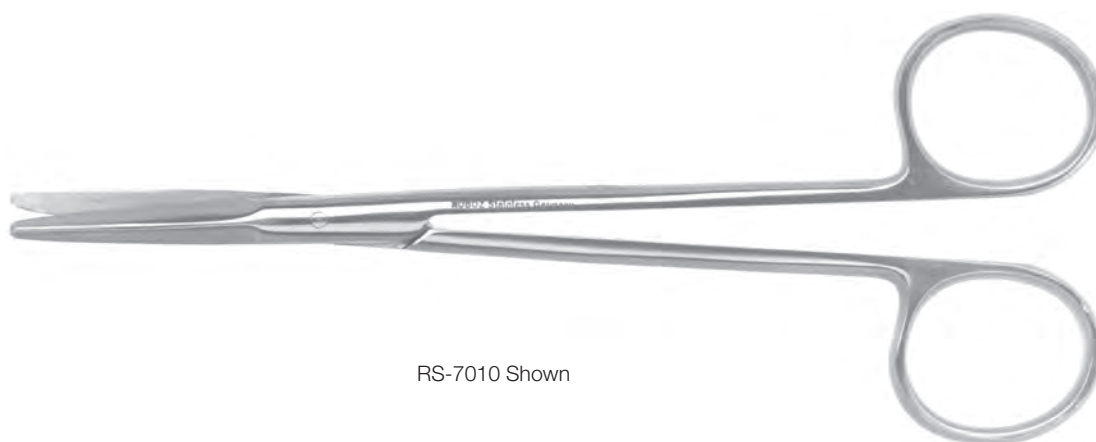
RS-6951 Shown



KAHN
blade length 32mm

RS-7010 straight
length 5³/₄"

RS-7011 curved
length 5³/₄"



RS-7010 Shown

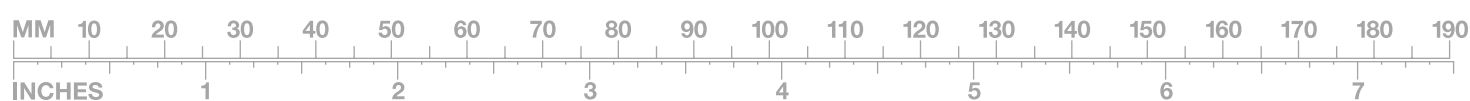
SIMS
blade length 48mm
length 8"

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 6³/₄"



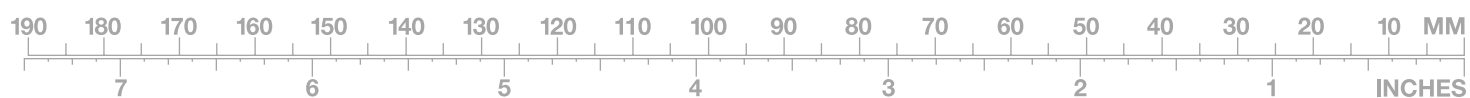
RS-7045

REYNOLDS

curved
tenotomy tips
blade length 35mm
length 6"



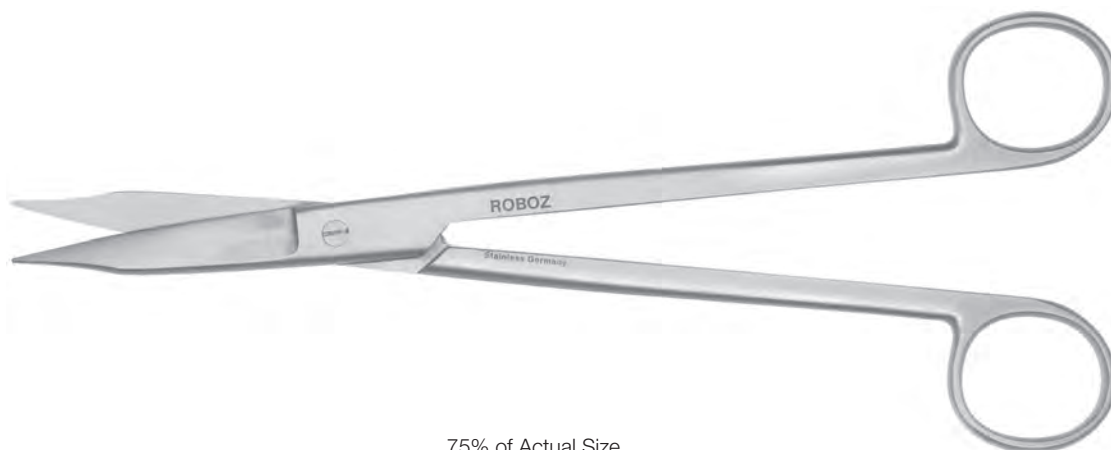
RS-7045 Shown



RS-7047

MARTIN

cartilage
serrated
blade length 48mm
length 7³/₄"

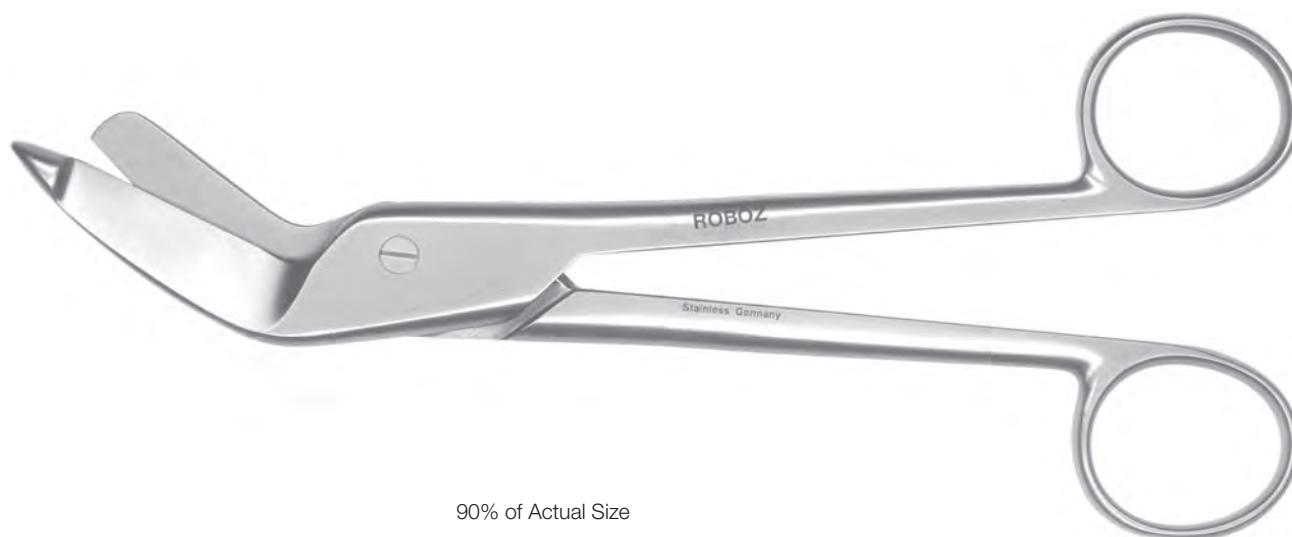


75% of Actual Size

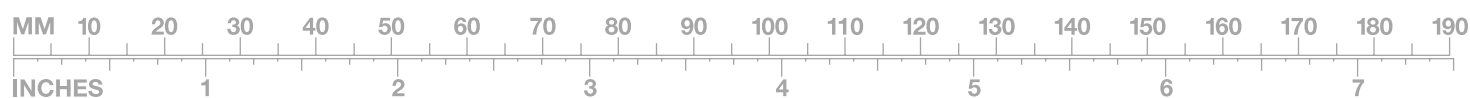
RS-7055

HERCULES

heavy duty
serrated
length 7¹/₂"



90% of Actual Size



RS-7060 Enterotomy
hook blade
length 8 1/2"



75% of Actual Size

LISTER
bandage

RS-7084 length 4 1/2"
RS-7085 length 5 1/2"



RS-7084 Shown



RS-7097

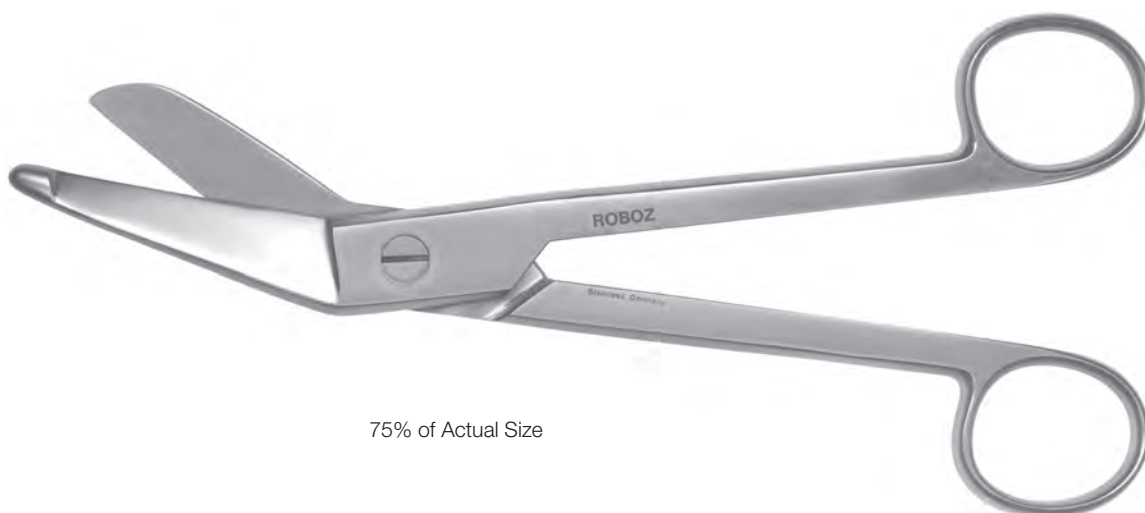
Extra Heavy Duty
hardened steel
serrated
length 7³/₄"



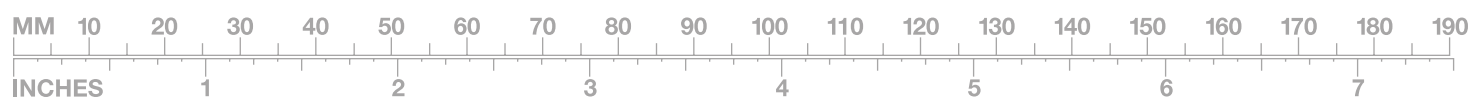
90% of Actual Size

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 1/2"

90% of Actual Size



RS-7099S
All Purpose
bandage/utility
serrated, autoclavable
black plastic handles
length 6 1/2"



SCISSORS INFORMATION

A number of our scissors are available with the following features:

Sure Cut Scissors

Sure Cut scissors are designed to cut different types of tissue smoothly and easily. They are unique because one blade is manufactured with micro-serrations perpendicular to the cutting edge and the other blade is honed to razor sharpness. The cutting edges of regular scissors are two squared edges. Sure Cut scissors make a reliable, clean, smooth cut. There is less force required to cut tissue with these scissors. The bevel-honed edge of Sure Cut scissors acts like a razor edge to cut tissue without crushing it. The serrated edge grips very soft or tough tissue preventing slippage. The firm grip and the superior sharpness guarantee that cutting is always effortless with Sure Cut scissors.

Sure Cut scissors have black rings for easy identification and can be identified by the letters “SC” in their item number.

Warning: Sure Cut scissors must not be used for cutting wire, thread, or other hard objects.

Tungsten Carbide (TC) Reinforced Blades

Tungsten carbide is 5 times harder than stainless steel. Scissors with tungsten carbide inserts along their blades last much longer than stainless steel scissors. Tungsten carbide scissors are especially good for cutting cartilage or for many repeated cuts such as in necropsy studies. Some of our scissors combine the benefits of razor sharp Sure Cut blades and the durability of tungsten carbide.

Scissors with tungsten carbide inserts have two gold ring handles.

Ceramic Coated Scissors

Ceramic coated scissors combine the best material and design properties ensuring unsurpassed durability and ease of cutting. The tungsten carbide blades of these scissors are coated with a thin layer of ceramic. They also have a serrated blade like SureCut scissors. These scissors will stay sharp over 6 times longer than regular scissors.

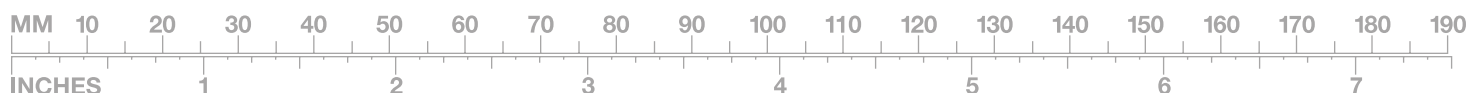
The ceramic coating lends incredible hardness to the material. The hard surface produces a very sharp cutting edge on one side while the serrations on the other side grip the tissue to prevent slipping. These two properties make cutting with these scissors very easy.

The tips of ceramic coated scissors are not as sharp as regular scissors. This is done intentionally during manufacturing in order to prevent the chipping of the ceramic coating from the tips.

We do not recommend cutting hard material like bones with ceramic coated scissors. Despite their hardness, the fine sharp edges of these scissors may get damaged by hard material.

Perma-Set Scissors

Perma-Set scissors have a unique design that enables them to self-sharpen as they are used. The scissor hinge is designed to provide spring tension on the two blades so, as they cut material, one blade presses against the other, sharpening the surface as they close. The RS-6780 and RS-6782 are Perma-Set scissors and can be found on page 88.



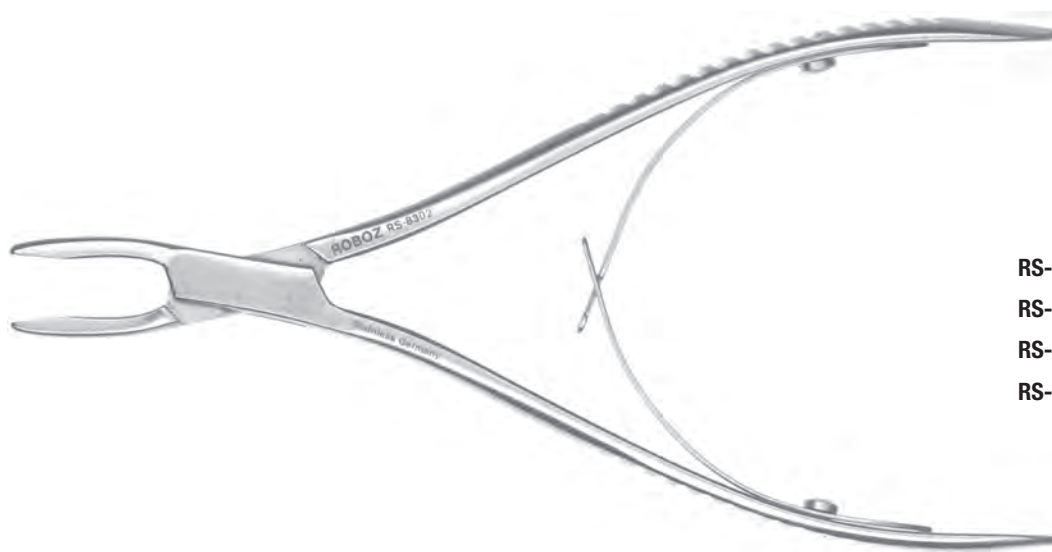
Bone Instruments



RS-8300

FRIEDMAN

slight curve
very delicate
jaw width 2mm
length 5 1/2"

**Micro FRIEDMAN**

very delicate
jaw width 1.3mm
length 5 1/2"

RS-8302

straight

RS-8303

curved

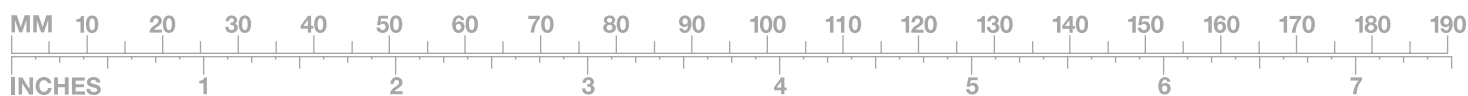
RS-8305

angled

RS-8306

extra delicate
jaw width 0.7mm
curved

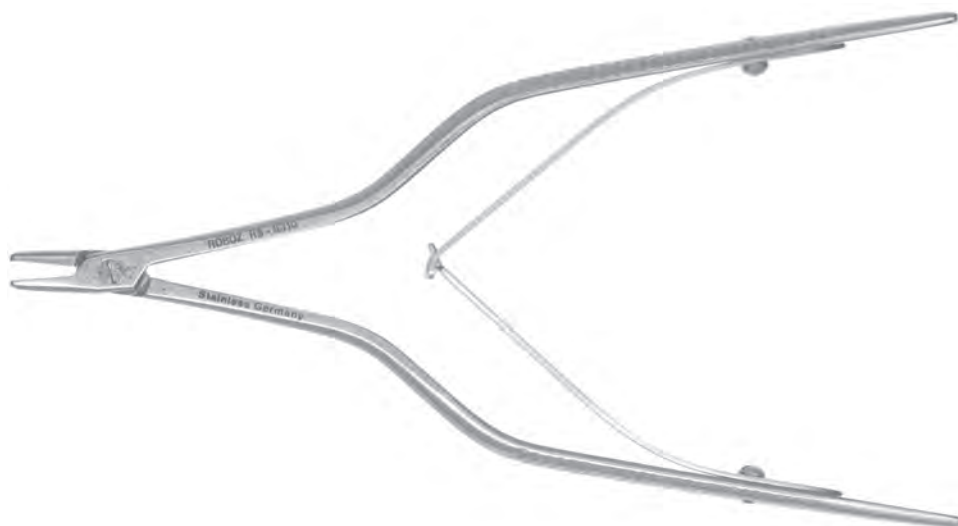
RS-8302 Shown



RS-8310

Mini Bone Rongeur

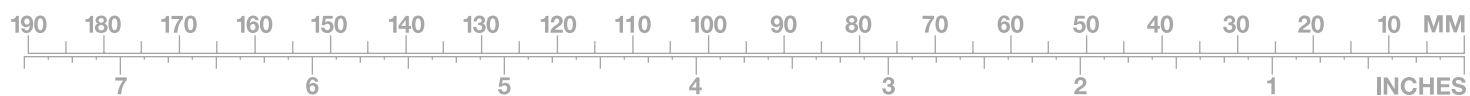
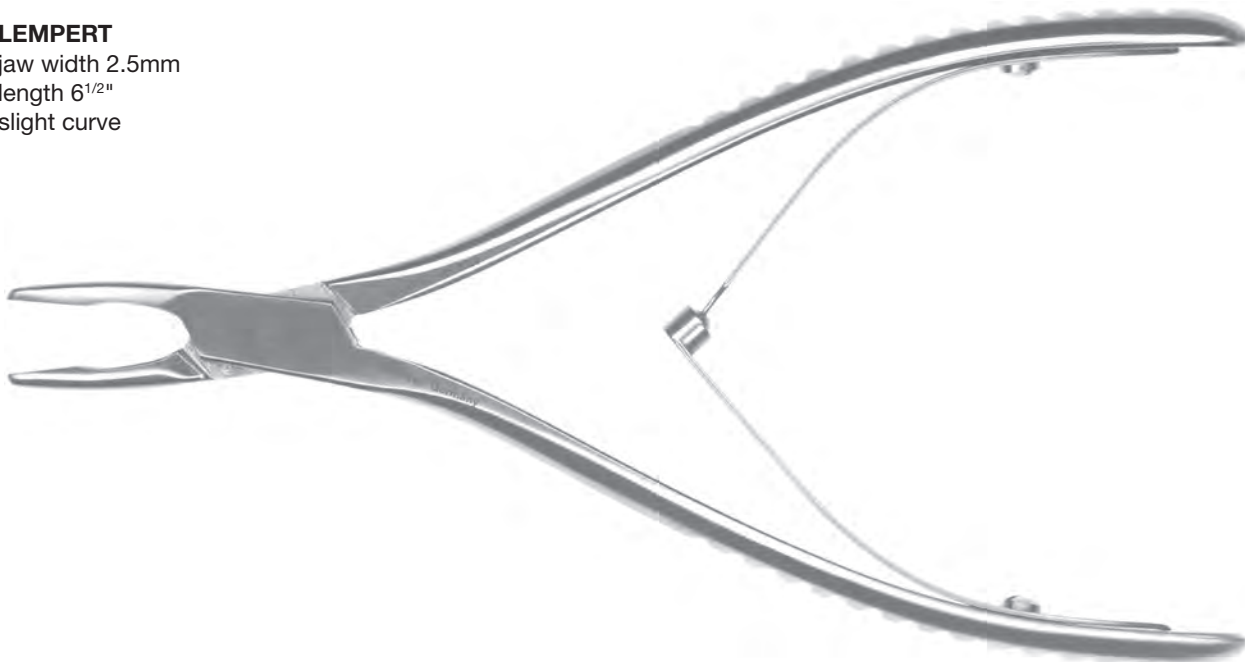
jaw width 2mm
jaw length 8mm
overall length 5"



RS-8321

LEMPERT

jaw width 2.5mm
length 6 1/2"
slight curve





RS-8301

Micro BLUMENTHAL
curved
length 4^{1/2}"

delicate
jaw width 1.3mm

RS-8340

jaw width 2mm



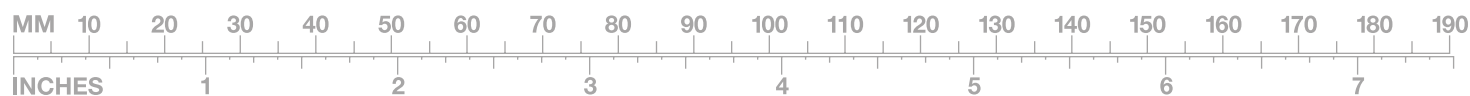
RS-8342

BLUMENTHAL
jaw width 2.5mm
slight angle
length 6"



RS-8360

HARTMAN
strong curve
length 5^{3/4}"



RS-8370

BANE
curved
length 7"



RS-8374

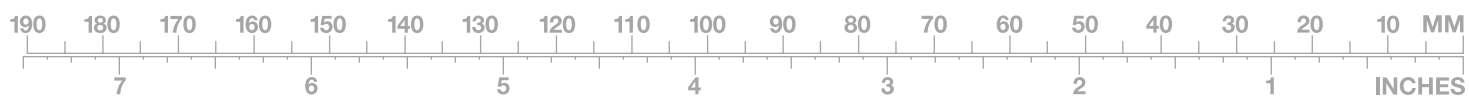
ADSON
curved
jaw width 7mm
jaw length 13mm
overall length 8"



75% of Actual Size

RS-8431

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





RS-8469

Extra Delicate Bone Trimmer7mm cutting edge
length 5¹/₂"

RS-8470

Bone Cutterconvex jaws, delicate
6mm cutting edge
length 5"

RS-8480 Shown

LITTAUERbone cutting forceps
straight
13mm cutting edge

RS-8480

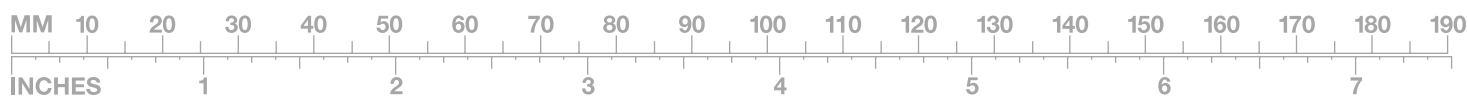
length 4¹/₂"

RS-8482

length 5"

RS-8484

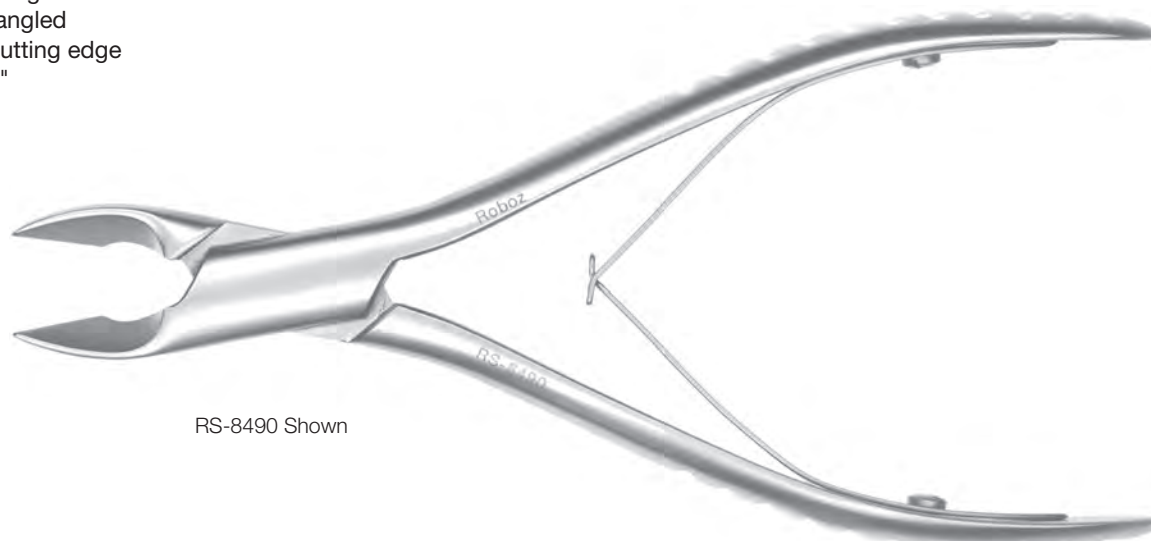
length 6"



RS-8490

CLEVELAND

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

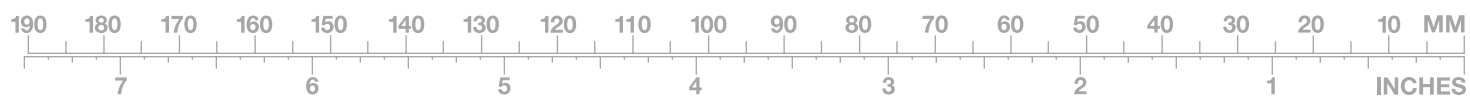


RS-8490 Shown

RS-8520

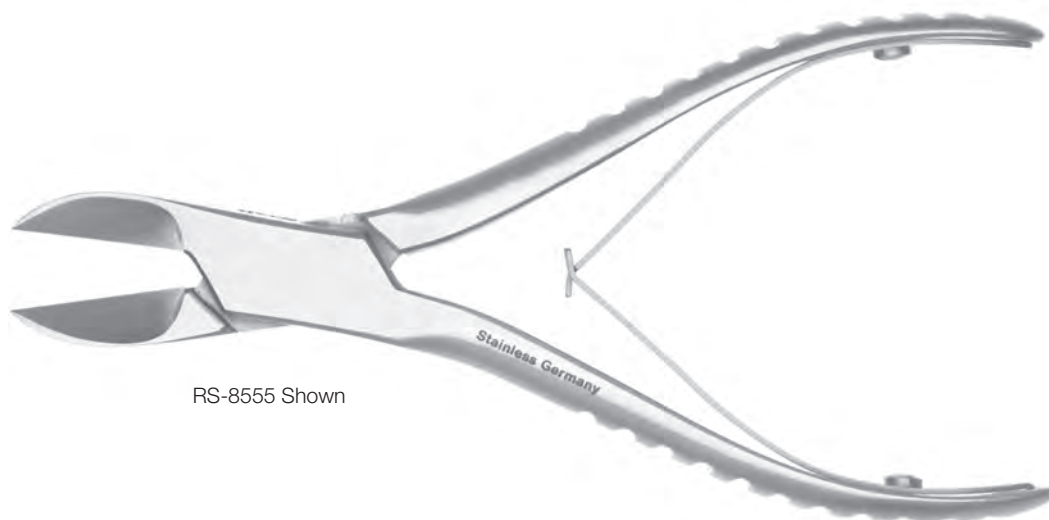
RUSKIN

double action, straight
length 5 1/2"



LISTON

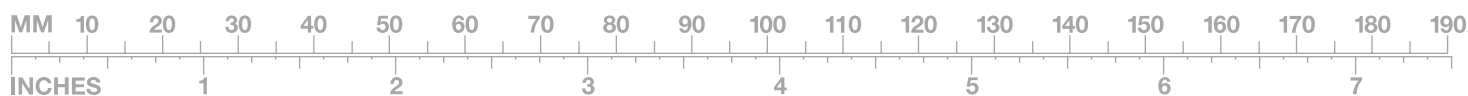
RS-8540	straight, length 5 1/2"
RS-8544	straight, length 8 1/2"
RS-8555	angled on flat, length 5 1/2"
RS-8559	angled on flat, length 8 3/4"



RS-8555 Shown

RS-8468**BEEBEE**

bone shears
strong blades
blade length 18mm
length 4"



RS-8820

FREER

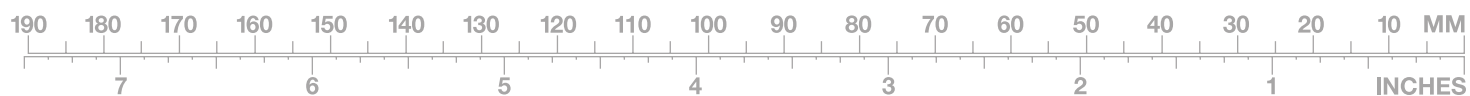
double ended
sharp and blunt blades
width 5mm
length 7"



RS-8830

MOLT

double ended
sharp and blunt blades
tip width:
5mm sharp
8mm blunt
length 7¹/₄"



RS-8910

FREERwidth 4mm
length 6¹/₂"
straight

RS-8910 Shown

RS-9782

VIRCHOWskull breaker
blade 1/2"
length 3"

RS-9040

SPRATTlength 6¹/₂"

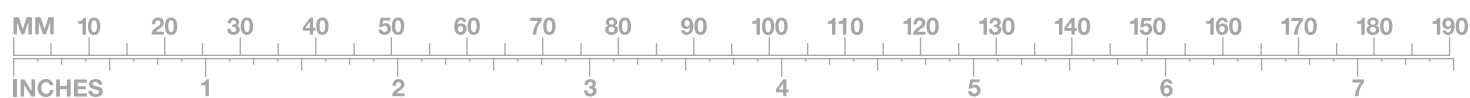
RS-9052

oval, size 5/0

oval, size 2/0



RS-9040 Shown



RS-9110
GLUCK
rib shears
length 8¹/₂"

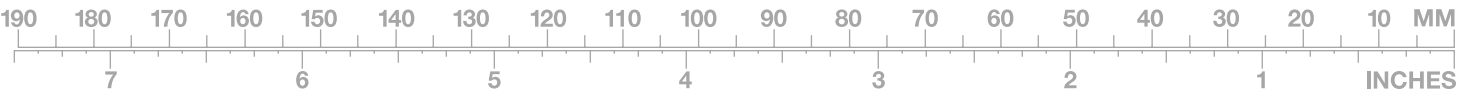


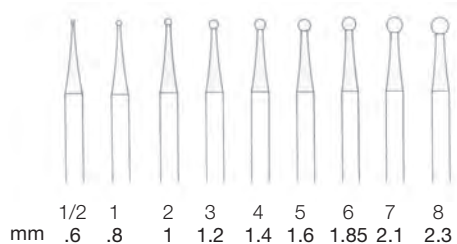
75% of Actual Size

RS-9120
LANGENBECK
saw
blade length 4¹/₂"
overall length 9"



50% of Actual Size

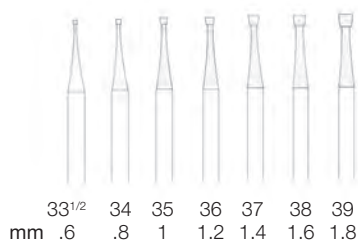




Please specify size when ordering

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

Trephine
 micro dissecting
 hand piece
 carbide

RS-6306

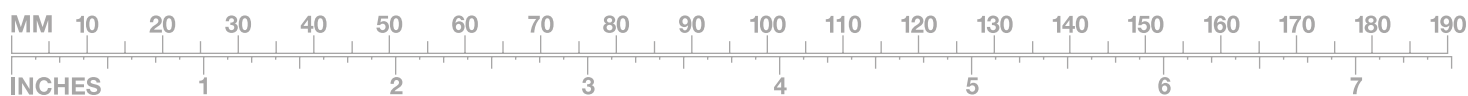
diameter 1.8mm

RS-6308

diameter 2.3mm

RS-6310

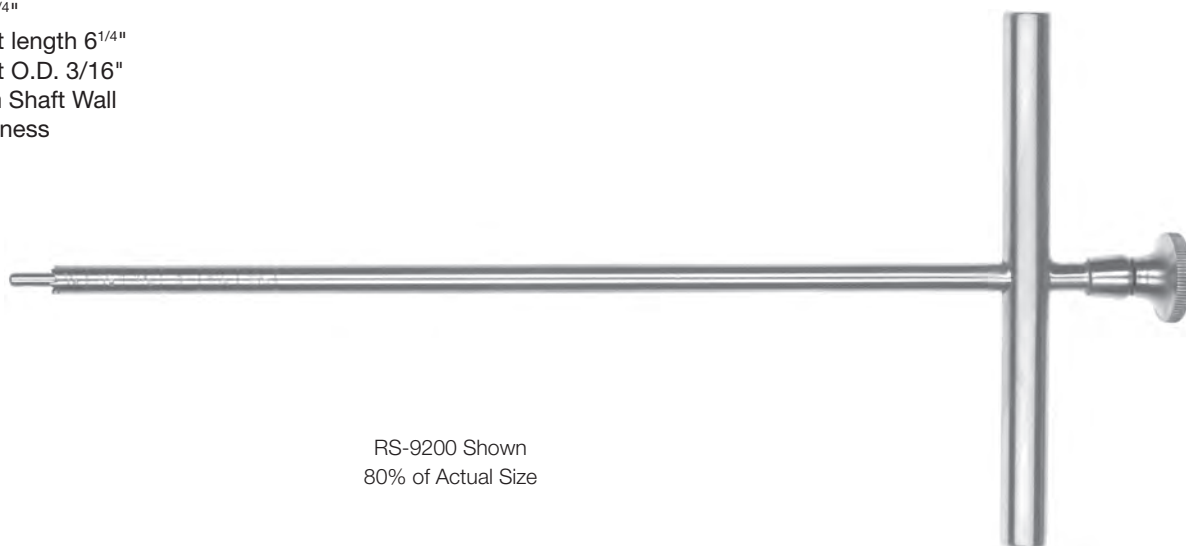
diameter 2.7mm



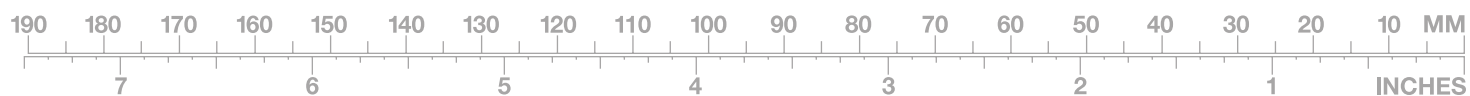
RS-9200

MICHELE

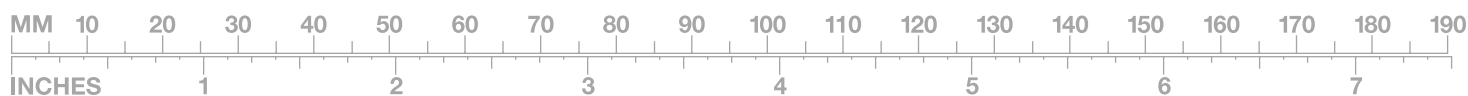
trepine
graduations 1/4"
to 1 1/4"
Shaft length 6 1/4"
Shaft O.D. 3/16"
1mm Shaft Wall
thickness



RS-9200 Shown
80% of Actual Size

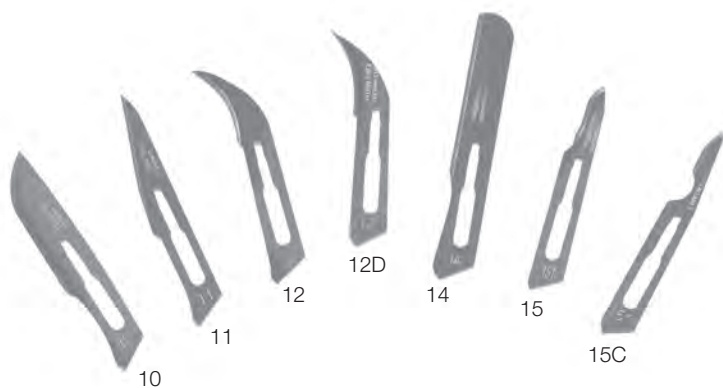


COMPARISON OF MILLIMETERS TO INCHES			
MM	INCHES	MM	INCHES
0.33	.013	6	.236
0.5	.020	6.33	.249
0.67	.026	6.5	.256
1	.039	6.67	.263
1.33	.052	7	.275
1.5	.059	7.33	.288
1.67	.066	7.5	.295
2	.079	7.67	.302
2.33	.092	8	.315
2.5	.098	8.33	.328
2.67	.105	8.5	.335
3	.118	8.67	.341
3.33	.131	9	.354
3.5	.138	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



Scalpels

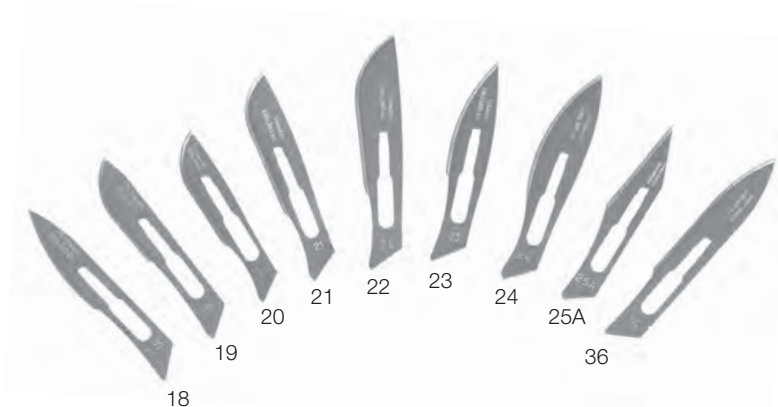




Not Actual Size

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**

Not Actual Size

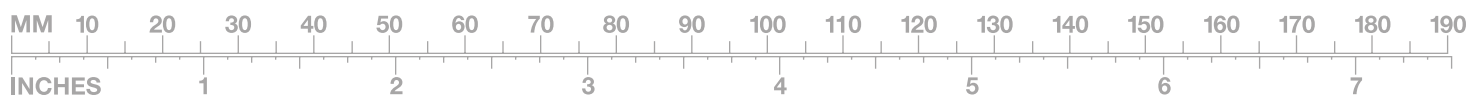
Please specify blade number

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****RS-9870****Scalpel blade
remover**

and disposal container.
Safely removes and
stores approximately
100 scalpel blades.



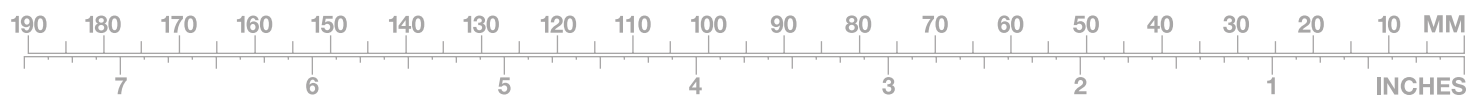
RS-9843

Scalpel Handle, #3solid
length 4"

RS-9847

Scalpel Handle, #7solid
length 6¹/₄"

RS-9884

Scalpel Handle, #4solid
length 5¹/₄"

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



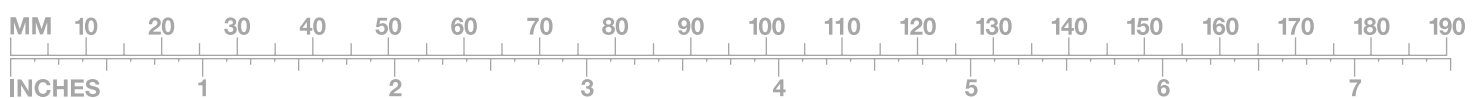
37-5920

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



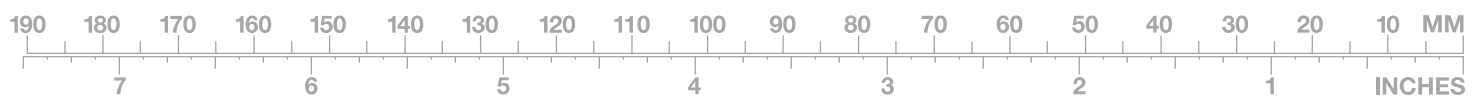
37-7516

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



37-7546

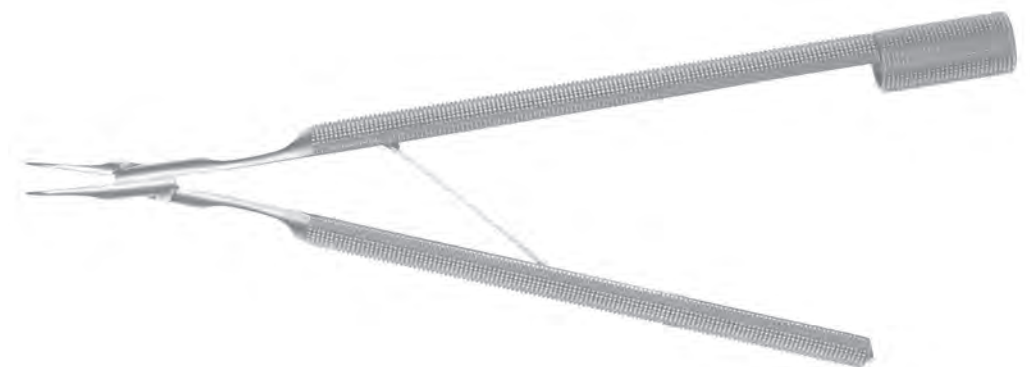
Miniature 1 piece
disposable scalpel
tan
45° 3mm depth
box/6



RS-6456

CASTROVIEJO

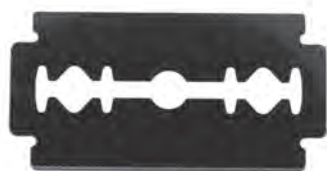
blade breaker
with push-pull lock
length 5¹/₄"



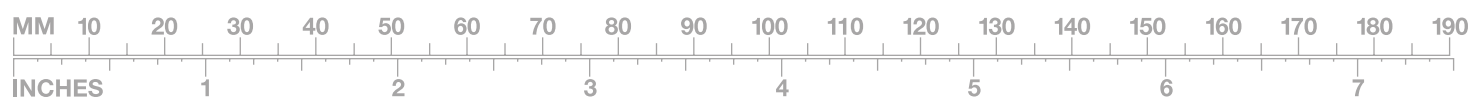
RS-6458

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 4¹/₂"



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

RS-6110

Micro Dissecting

knife handle
tapered
length 5¹/₂"



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

RS-6120

Micro Dissecting Knife

1mm cutting edge
shaft length 1¹/₂"



RS-6122

Micro Dissecting Knife

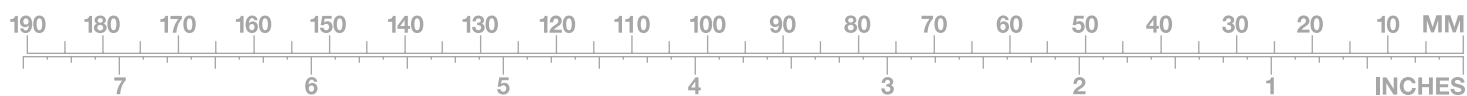
1.5mm cutting edge
shaft length 1¹/₂"



RS-6125

Micro Dissecting Knife

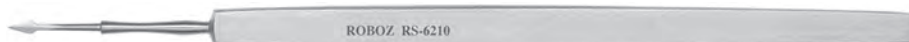
spear point
1.5mm cutting edge
shaft length 1¹/₂"



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

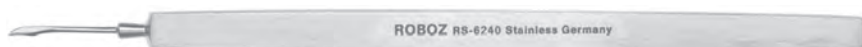
micro dissecting knife
curved
blade 1 x 7mm
length 122mm



RS-6240

ZIEGLER

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



RS-6242

ZIEGLER

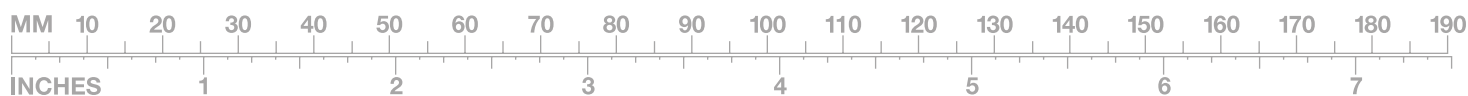
micro dissecting knife
no. 1, blade 5mm
overall length 111mm



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

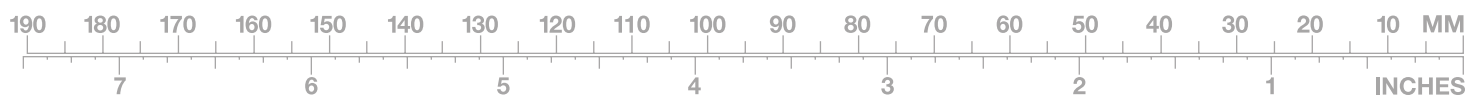
rotating disk knife
3mm disk diameter
disk in line with handle



RS-9411

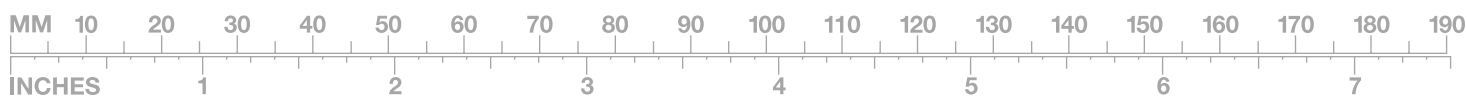
SCHUKNECHT

rotating disk knife
3mm disk diameter
disk perpendicular
to handle



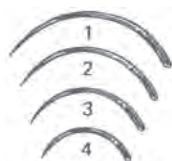
COMPARISON OF MILLIMETERS TO INCHES			
MM	INCHES	MM	INCHES
0.33	.013	6	.236
0.5	.020	6.33	.249
0.67	.026	6.5	.256
1	.039	6.67	.263
1.33	.052	7	.275
1.5	.059	7.33	.288
1.67	.066	7.5	.295
2	.079	7.67	.302
2.33	.092	8	.315
2.5	.098	8.33	.328
2.67	.105	8.5	.335
3	.118	8.67	.341
3.33	.131	9	.354
3.5	.138	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



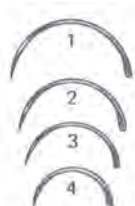


RS-7981

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

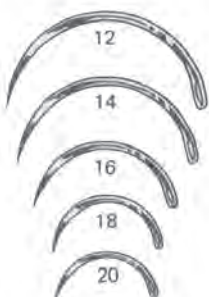


RS-7983

Eye Needles

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

Please specify size when ordering

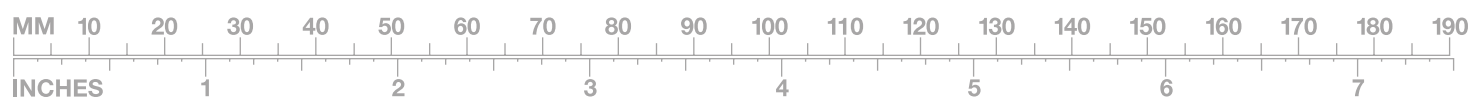


RS-7985

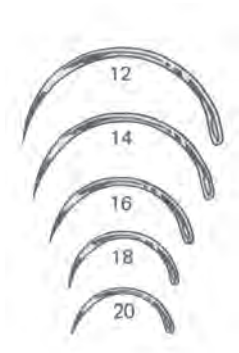
Regular Surgeon's

3/8 circle, cutting edge
sold by dozen

Please specify size when ordering

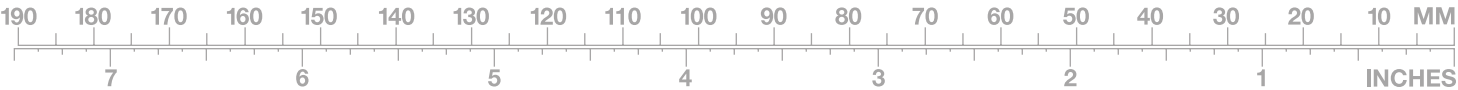
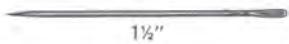


RS-7986 **Regular Surgeon's**
1/2 circle, cutting edge
sold by dozen



Please specify size when ordering

RS-7987 **Fine Intestinal Needle**
straight, taperpoint
sizes: 1 1/2"
sold by dozen

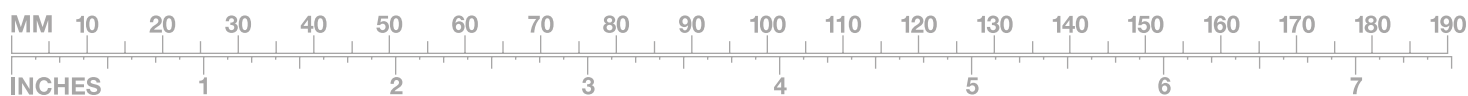


NON-STERILE

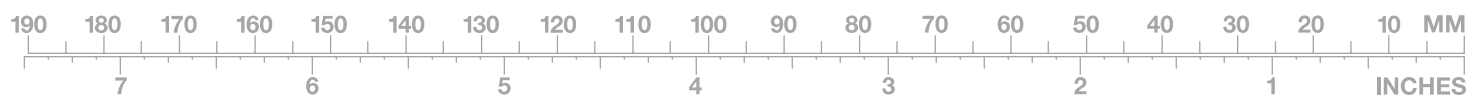
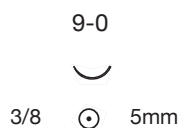
Cat.#	Size	Material		Length	Needle	Packaged
SUT-14-1	6-0	Silk, Black, Braided	Non-Absorbable	100yd	None	Spool
SUT-15-1	5-0	Silk, Black, Braided	Non-Absorbable	100yd	None	Spool
SUT-15-2	4-0	Silk, Black, Braided	Non-Absorbable	100yd	None	Spool
SUT-15-3	3-0	Silk, Black, Braided	Non-Absorbable	100yd	None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

STERILE, WITH NEEDLE

Cat.#	Size	Material		Length	Needle	Packaged
SUT-1000-11	10-0	Nylon, Black, Uncoated	Non-Absorbable	5"	--	Box/12
SUT-1000-21	9-0	Nylon, Black, Uncoated	Non-Absorbable	8"	--	Box/12
SUT-1000-31	8-0	Nylon, Black, Uncoated	Non-Absorbable	8"	--	Box/12
SUT-1000-41	7-0	Nylon, Black, Uncoated	Non-Absorbable	8"	--	Box/12
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 CIRCLEREVERSE CUTTING
1/2 CIRCLETAPER
1/2 CIRCLETAPER
3/8 CIRCLE

RS-7069

Wire Cutting
serrated
angled with notch
length 5"



RS-5950

SPENCER
stitch, very delicate
length 3 1/2"



RS-7074

LITTAUER
stitch

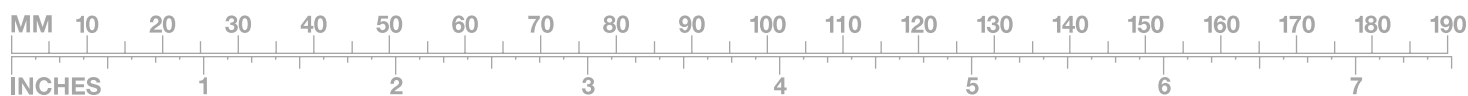
length 4 1/2"

RS-7076

length 5 1/2"



RS-7074 Shown



RS-6400

KALT
with lock
length 5¹/₂"



RS-6403

PATTON
straight without lock
length 4¹/₂"
serrated



CASTROVIEJO
length 5³/₄"

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 5³/₄"

RS-6416

straight with lock

RS-6416T

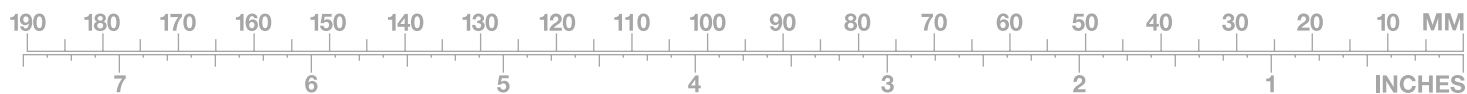
straight with lock, titanium

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 1/2"



RS-6437

Micro Needle Holder

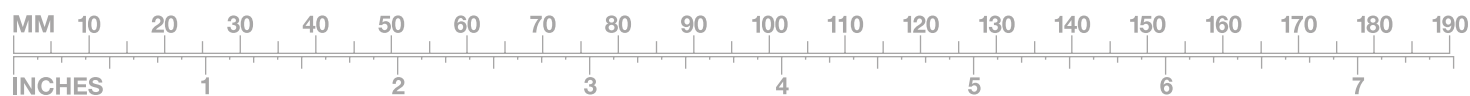
0.8mm tips
length 5 1/8"
curved jaws with lock



RS-6445

Micro Needle Holder

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



Intracardiac
extra delicate
with carbide jaws

RS-7800

length 5"

RS-7804

length 7"

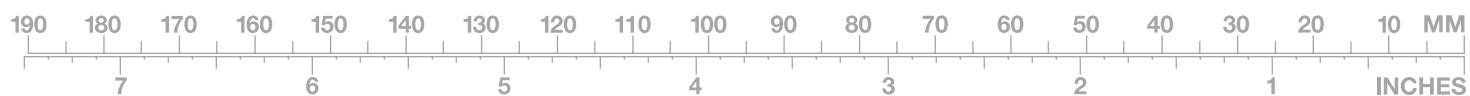


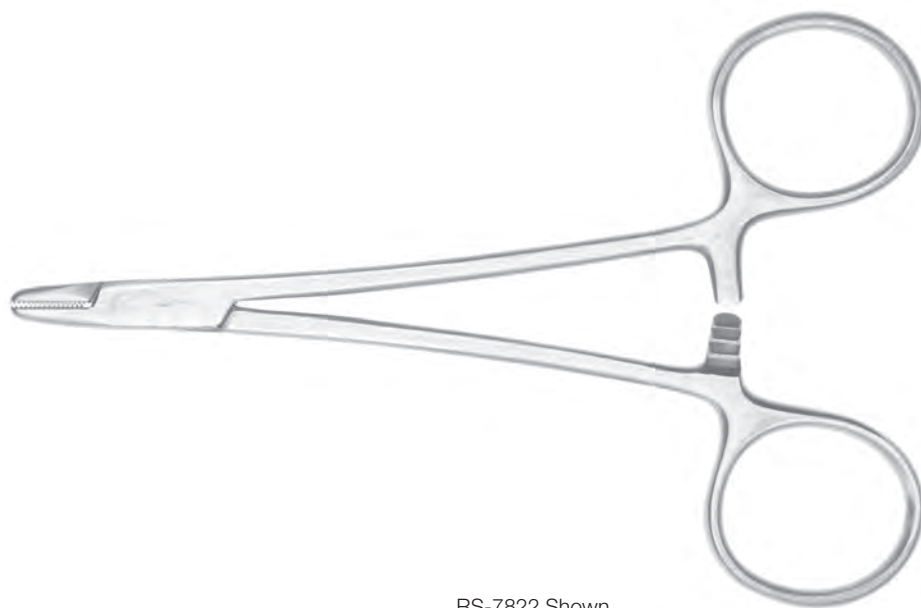
RS-7800 Shown

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

RS-7820

BABY DERF
large finger rings
length 4¹/₄"





RS-7822 Shown

RS-7822**RS-7824****DERF**length 4³/₄"

standard jaws

carbide jaws



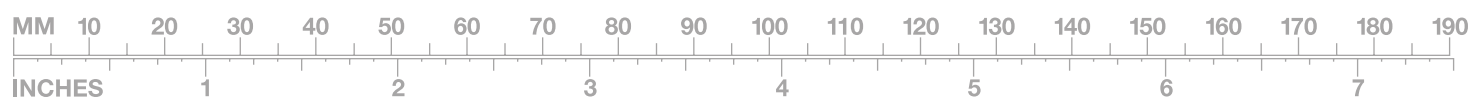
RS-7830 Shown

RS-7830**RS-7832****RS-7842****WEBSTER**

smooth jaws, delicate

length 4³/₄"

length 5"

serrated carbide jaws
length 5"

HALSEY
length 5"**RS-7840**

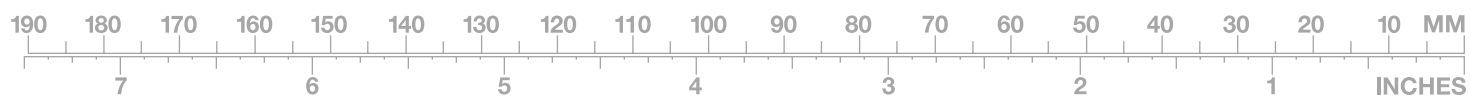
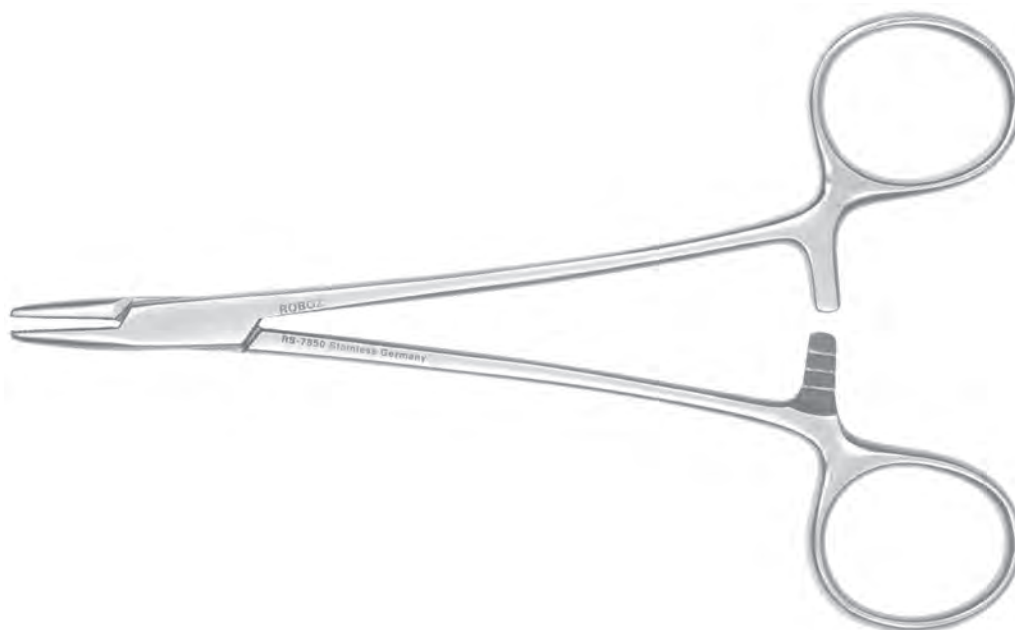
smooth jaws

RS-7841serrated jaws
carbide**RS-7841L**

left-handed version



RS-7840 Shown

RS-7850**HEGAR-BAUMGARTNER**
length 5¹/₄"

CRILE-WOOD

RS-7860

length 6"

RS-7862

length 7"



RS-7860 Shown

OLSEN-HEGAR

extra delicate with
combination scissor
length 4³/₄"

RS-7880

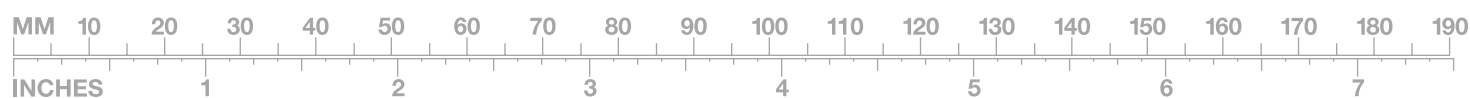
serrated jaws

RS-7882

smooth jaws



RS-7880 Shown



OLSEN-HEGAR
needle holder scissors
combination cross
serration tip

RS-7884 length 5¹/₂"

RS-7886 length 6¹/₂"



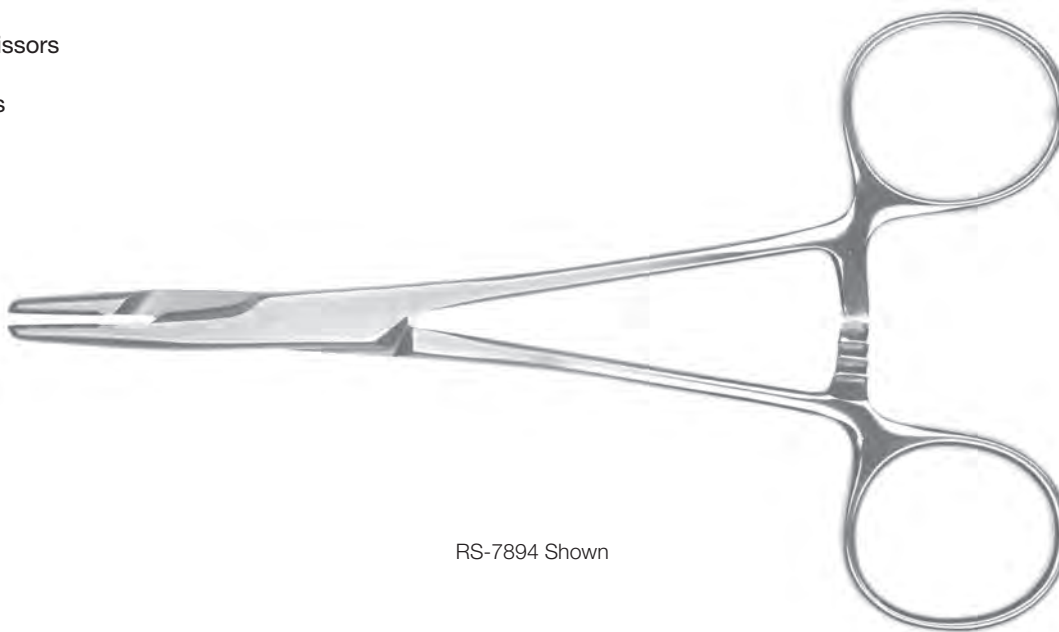
RS-7884 Shown

OLSEN-HEGAR
needle holder scissors
combination
with carbide jaws

RS-7892 length 4³/₄"

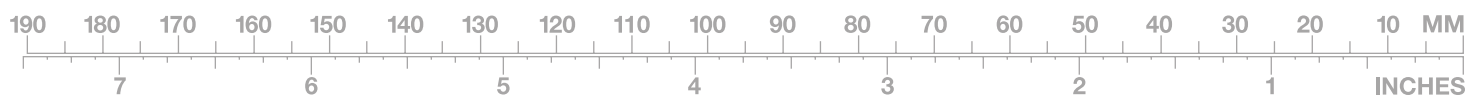
RS-7894 length 5¹/₂"

RS-7896 length 6¹/₂"

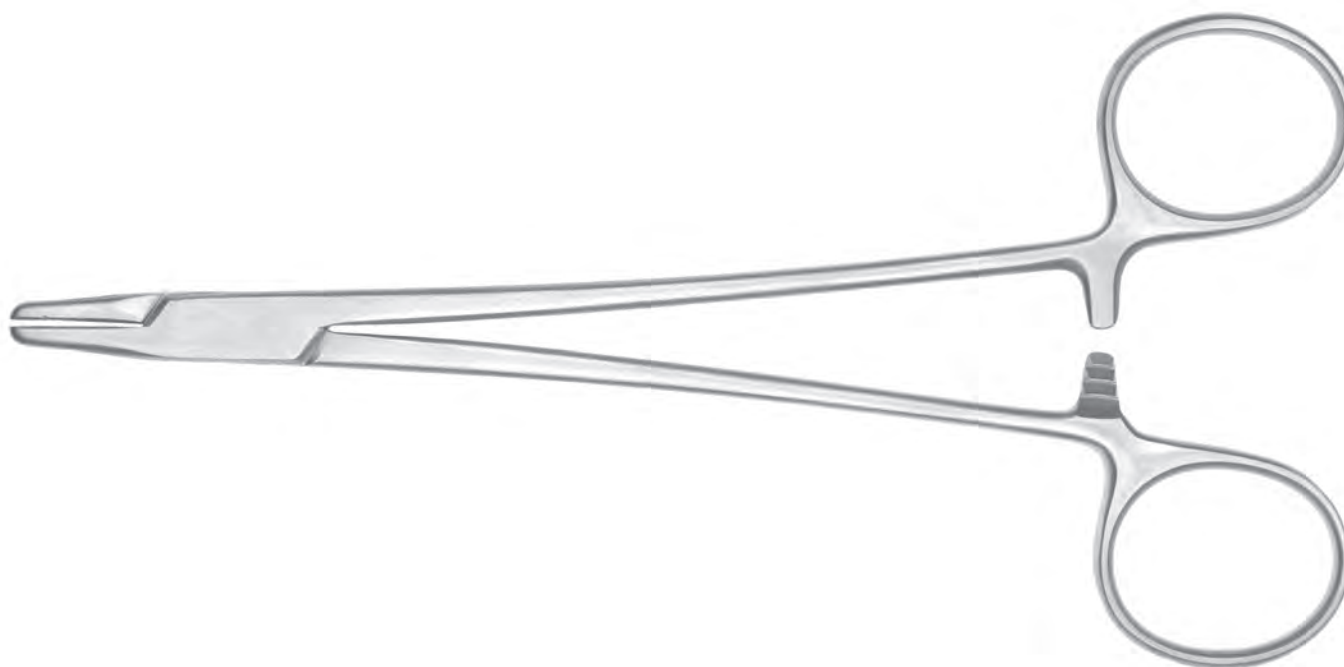


RS-7894 Shown

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



RS-7900

METZENBAUM
length 7"
straight**MAYO-HEGAR**

RS-7910

length 5¹/₄"

RS-7912

length 6¹/₄"

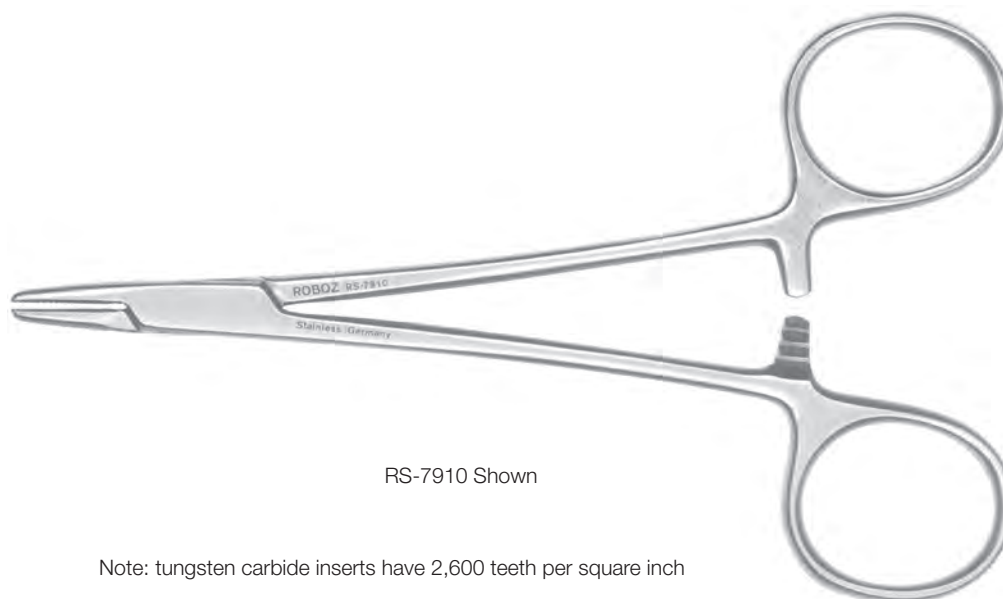
RS-7912L

left-handed version

RS-7920

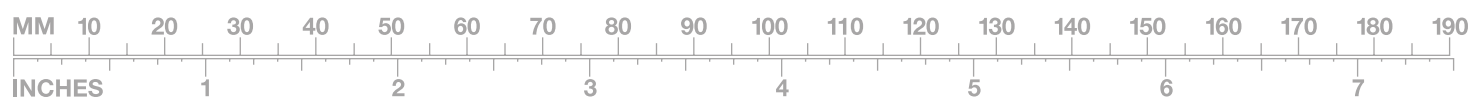
with carbide jaws
length 5¹/₄"

RS-7922

with carbide jaws
length 6¹/₄"

RS-7910 Shown

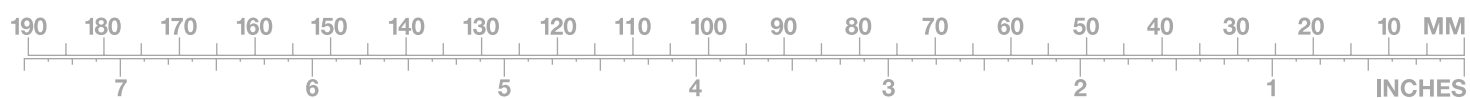
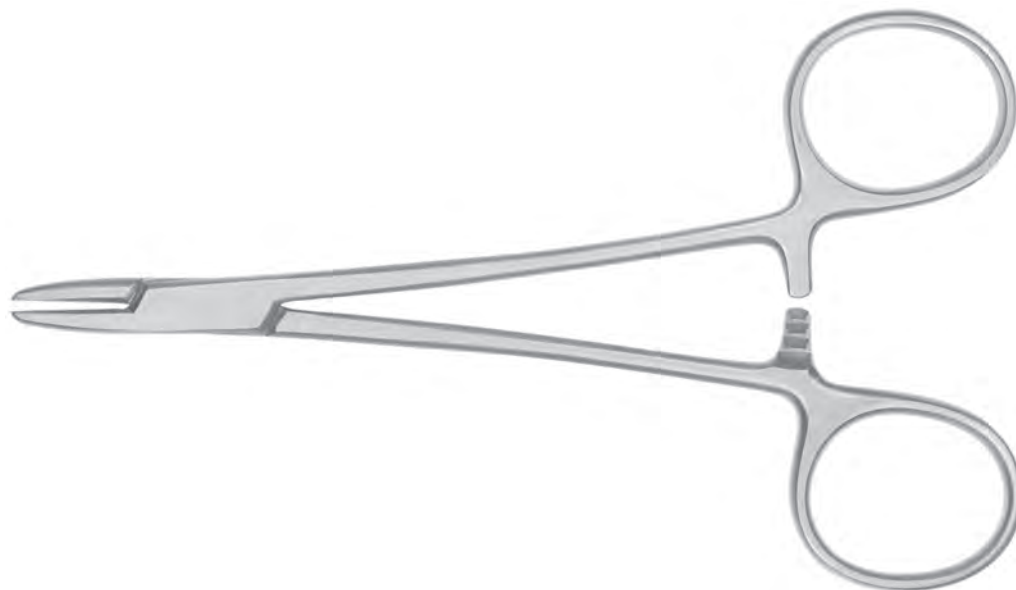
Note: tungsten carbide inserts have 2,600 teeth per square inch



RS-7960

BROWN

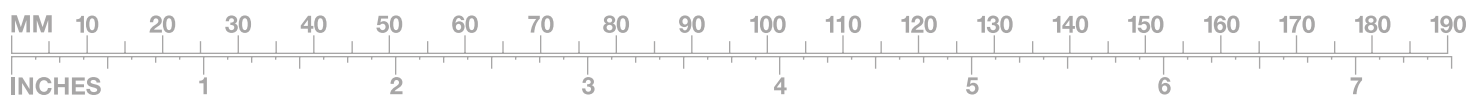
convex jaw
with fine serrations
for easy suture tying
length 5¹/₄"



**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"



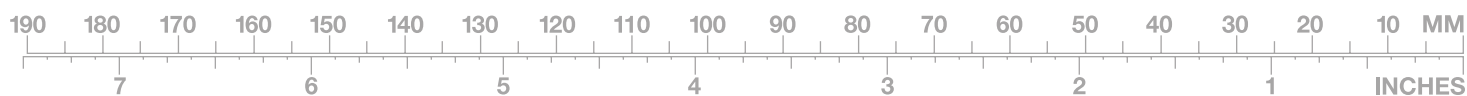
MICHEL
clip applying and
removing forceps
length 5"

RS-9294

use with
11mm clips

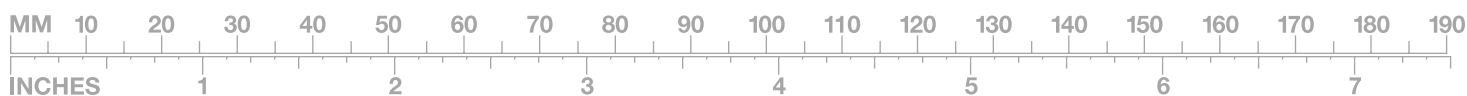
RS-9295

use with
7.5mm clips

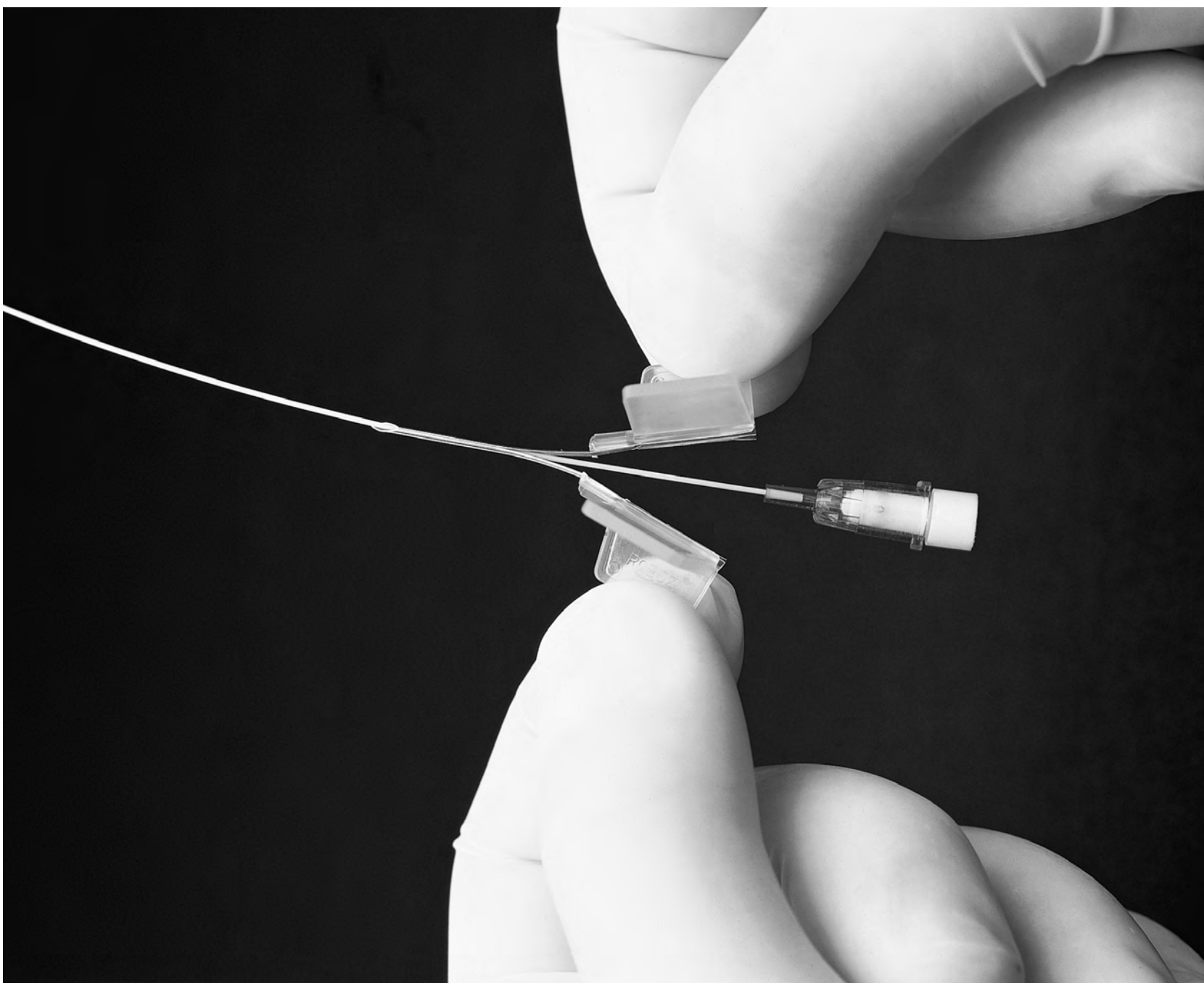


COMPARISON OF MILLIMETERS TO INCHES			
MM	INCHES	MM	INCHES
0.33	.013	6	.236
0.5	.020	6.33	.249
0.67	.026	6.5	.256
1	.039	6.67	.263
1.33	.052	7	.275
1.5	.059	7.33	.288
1.67	.066	7.5	.295
2	.079	7.67	.302
2.33	.092	8	.315
2.5	.098	8.33	.328
2.67	.105	8.5	.335
3	.118	8.67	.341
3.33	.131	9	.354
3.5	.138	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

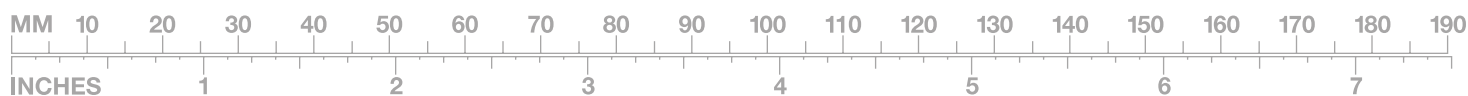
for tubing of
.5mm OD
length 130mm
tip width .9mm
tip diameter .5mm
Material: INOX



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**

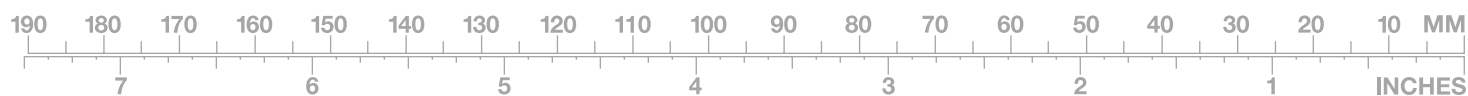
length 120mm
tip .20 x .16mm
Material: INOX



RS-4929

**Vessel Dilation
Forceps**

length 115mm
tip .20 x .16mm
Material: INOX



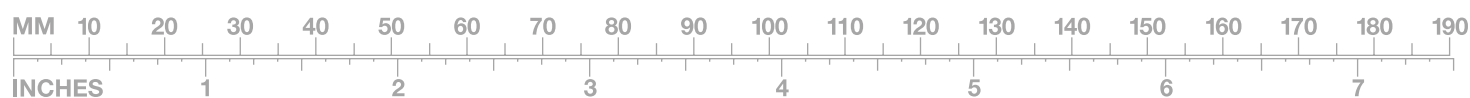
IN-10	Polyethylene Tubing, 10ft Lengths, .011" ID x .024" OD
IN-10N	Intro needle, sterile, 1", 19G, .027" ID x .042" OD
PN-7922	Infusion Cannula, blunt, 1", 30G, .006" ID x .012" OD
IN-20	Polyethylene Tubing, 10ft Lengths, .015" ID x .043" OD
IN-50N	Intro needle sterile, 1", 16G, .047" ID x .065" OD
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



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"
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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



RS-6200



RS-6204



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

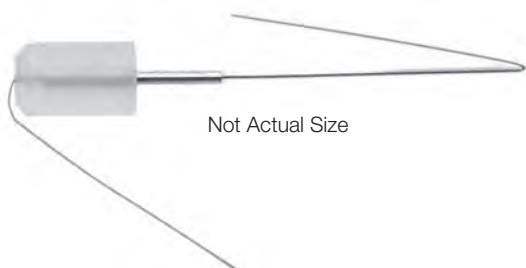
plastic
for use with IN-900
and IN-905 needles

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

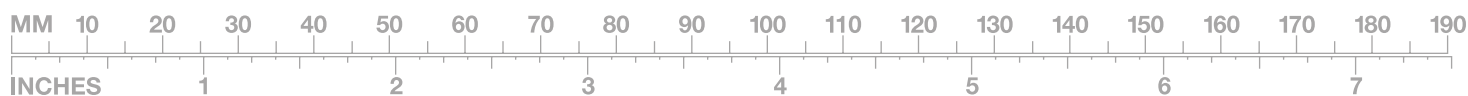
33G
20deg bevel



IN-950

IN-950**Syringe**

glass
5 microliters
for use with IN-940
needles





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!

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-1010 Advance Infusion Table

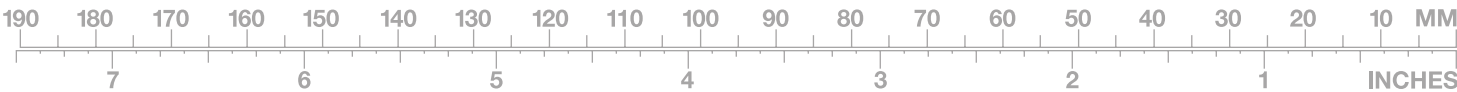
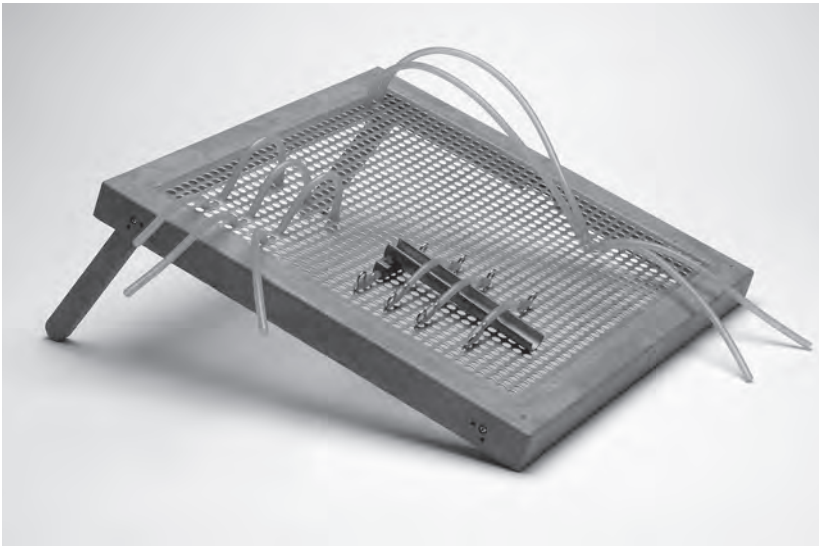
The **Advance Infusion Table** is the latest design in tail infusions for rats. This unique setup allows for tail infusions lasting up to three hours.

Features

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

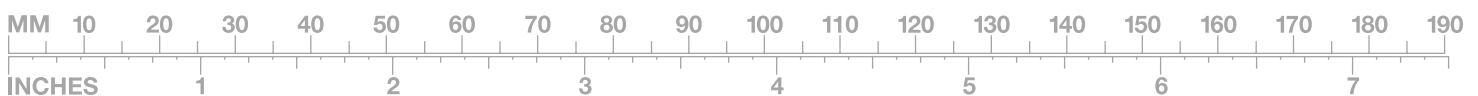
Dimensions

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			
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0.33	.013	6	.236
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0.67	.026	6.5	.256
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1.5	.059	7.33	.288
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5.33	.210	11.33	.446
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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

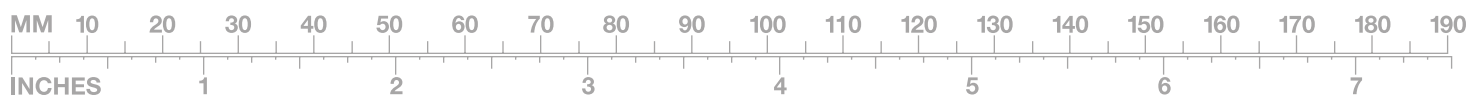
International Version

Instrument Sterilizer
dry, glass bead



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: Ultrasonic waves pump micron-sized bubbles into the water. These bubbles fit into the tightest spaces that would be impossible to clean by traditional methods. When the bubbles implode, water hits the instrument at speeds up to 250 mph—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 the option of heat
- High-capacity elongated tank
- Quiet operation
- Small footprint

RS-9911 2.5L Ultrasonic Cleaner

Specifications:

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

Power Consumption: AC100-120V-160W

Tank Size: 25 x 150 x 80 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

RS-9920 6L Ultrasonic Cleaner XL

Specifications:

Voltage Rating & Frequency: 100~120 VAC, 60 Hz

Power Consumption: 290 Watts

Tank Size: 32.3 x 20.5 x 9.9cm (12.7 L x 8.1 x 3.9 H in)

Tank Capacity: 6000 ml (1.6 gal) (MAX-) 5000 ml 1.3 gal (MIN-) 3350 ml 0.9 gal

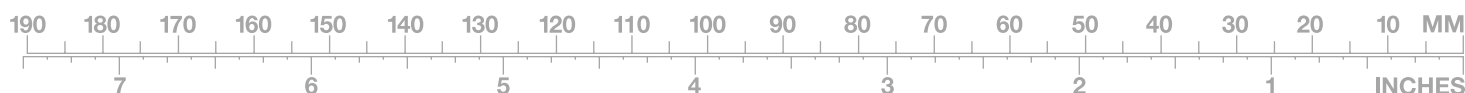
Accessories: Stainless steel tray, power cord

5-Cycle Digital Timer: 1-30min full range timer

Temperature Settings: 40°C - 45°C - 50°C - 60°C-65°C

Net Weight: 5.4 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

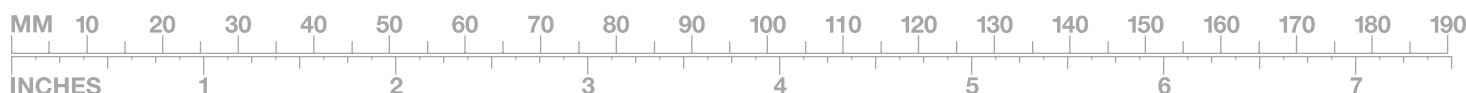
Chamber Dimensions: 9 x 14" (23 x 36 cm)

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

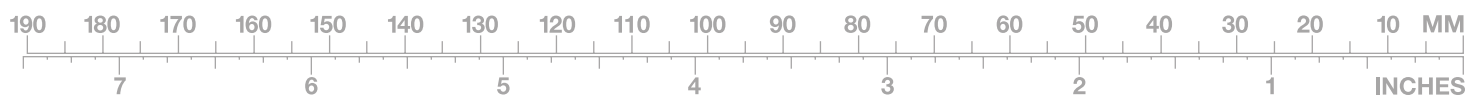




Protect your surgical instrument investment with Roboz's Roll-Pak. Store your instruments inside the Roll-Pak between uses. Transport your instruments from lab to lab. Protect your instruments from damage by placing one instrument per slot. Organize packs or types of instruments by placing one group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

Roll-Pak

RS-9960	holds 5 instruments
RS-9962	holds 12 instruments
RS-9964	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.

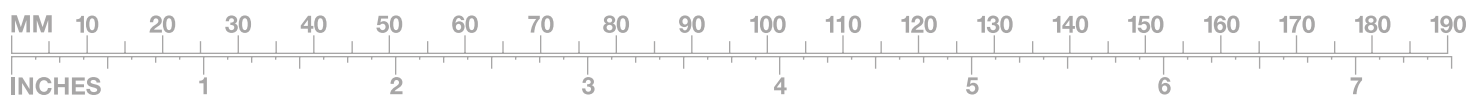
Instrument Tray
10 x 6¹/₂ x 3/4"
solid
RT-1350S

Instrument Tray
13¹/₂ x 9³/₄ x 3/4"
solid
RT-1351S

Instrument Tray
9" x 5" x 2"
solid
RT-1400S
perforated
RT-1400P
lid
RT-1400L

Instrument Tray
10 x 6¹/₂ x 2"
solid
RT-1401S
perforated
RT-1401P
lid
RT-1401L

Instrument Tray
12¹/₄ x 7³/₄ x 2¹/₄"
solid
RT-1402S
perforated
RT-1402P
lid
RT-1402L





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

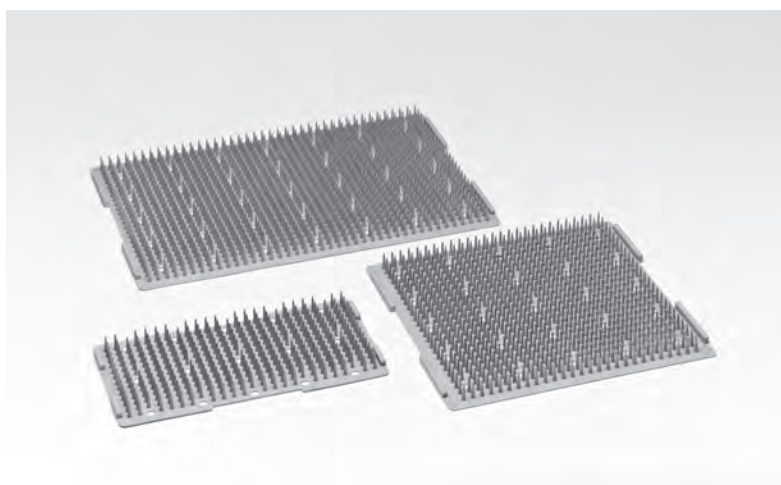
- Interlocking silicone keep instruments in place
- Available with silicone mat, perfect for micro dissecting instruments
- Removable cover for easy cleaning

RS-9900	8" x 8 ¹ / ₂ " x 1 ¹ / ₄ " with silicone strips
RS-9900A	8" x 8 ¹ / ₂ " x 1 ¹ / ₄ " with silicone strips and mat
RS-9902	8" x 12 ¹ / ₂ " x 1 ¹ / ₄ " with silicone strips
RS-9902A	8" x 12 ¹ / ₂ " x 1 ¹ / ₄ " with silicone strips and mat

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

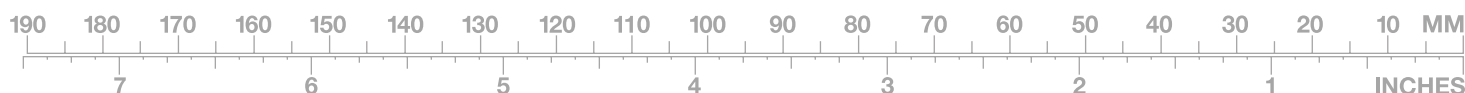
- Light Weight
- Interlocking silicone strips keep instruments in place
- Made of durable Ultem 1000 Plastic

RS-9912	8" x 4" x 1 ¹ / ₄ " with silicone strips
RS-9910	8 ¹ / ₄ " x 8 ¹ / ₄ " x 1 ¹ / ₄ " with silicone strips
RS-9913	8 ¹ / ₄ " x 15" x 1 ¹ / ₄ " 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.

RS-9904	8" x 4" silicone mat
RS-9901	8" x 8 ¹ / ₂ " silicone mat
RS-9903	8 ¹ / ₄ " x 15" silicone mat



Stainless Forceps Jar

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

Silicon instrument cup

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



RS-9907



RS-9908

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

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

EC-1000	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

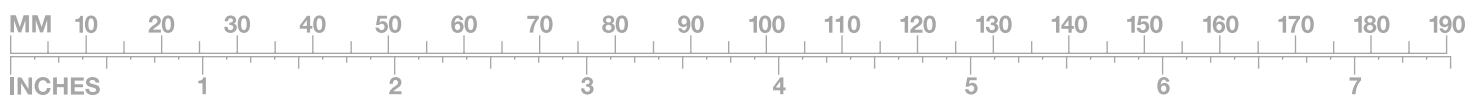
Not Actual Size

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
---------	--



Magnification and Illumination



Binocular Magnifying Loupes

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

4X and 5X magnification loupes reveal incredible detail but come with a smaller field of view and your working distance has to be maintained more accurately.

Loupes with 2.5X, 3X, or 3.5X 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 easily on a pair of glasses
(glasses not provided)
double hinge, flip-up design

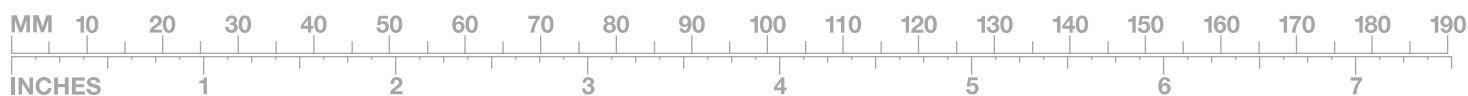
ML-662	2.5X magnification 340mm working distance
ML-664	2.5X magnification 420mm working distance
ML-672	3.5X magnification 340mm working distance
ML-674	3.5X magnification 420mm working distance



Mini Loupes On Sport Frame

light weight, wide field of view
double hinge, flip-up design

ML-655	2.5X magnification 340mm working distance
ML-657	2.5X magnification 420mm working distance





Loupes On Sport Frame
double hinge, flip-up design

- ML-611** 2.5X magnification
340mm working distance
- ML-613** 2.5X magnification
420mm working distance
- ML-623** 3.5X magnification
340mm working distance
- ML-625** 3.5X magnification
340mm working distance



Loupes On Sport Frame
double hinge, flip-up design

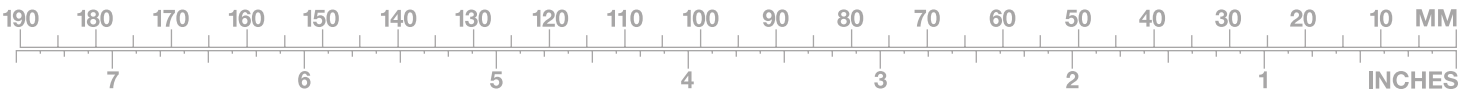
- ML-631** 4X magnification
340mm working distance
- ML-633** 4X magnification
420mm working distance
- ML-641** 5X magnification
340mm working distance
- ML-643** 5X magnification
420mm working distance



Super Bright LED Light
clips on to loupes
light weight
battery pack or AC power supply

- ML-603** 6-9 hour run time
50,000lux brightness
- ML-605** 9-11 hour run time
40,000lux brightness

ML-603 Show (loops not included)



ML-151**LED Magnifying Light**

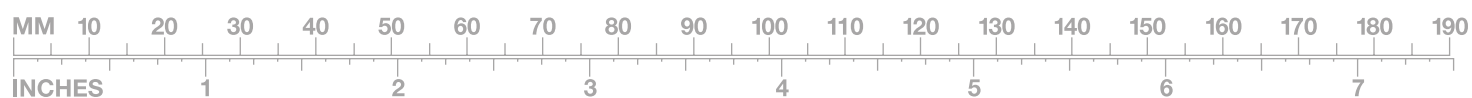
42" adjustable arm

5" crystal clear glass lens

3 diopter magnifying strength

Sixty 3.5 Watt LED Bulbs

Metal table clamp opens up to 2.5"



Miscellaneous



FRAZIER
length 7"**RS-9242**

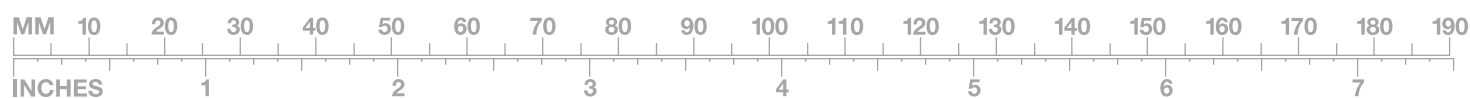
suction tube 2.33mm

RS-9252

suction tube 4mm



RS-9242 Shown

**ST-1538****Durapore™ Surgical Tape**
1/2" x 10 yd,
pack of 24 rolls



- 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

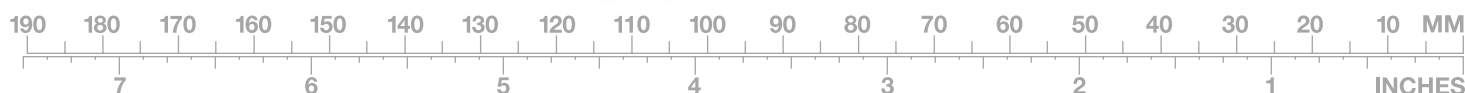
The GEMINI CAUTERY SYSTEM is the perfect tool for your cauterizing needs. The unique tip sizes combined with two different operating temperatures allow for maximum versatility. The convenient battery spacer converts the hand piece from high temperature to low temperature. Average temperature with two 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)

RC-5905 Shown
Not Actual Size**RC-5905****A-5 Clipper With Detachable Blade****RC-5906**

with No. 10 blade
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

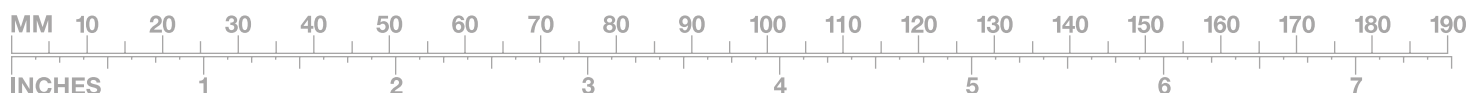
for clipping surgical area
hair length 1/125"
size 50

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

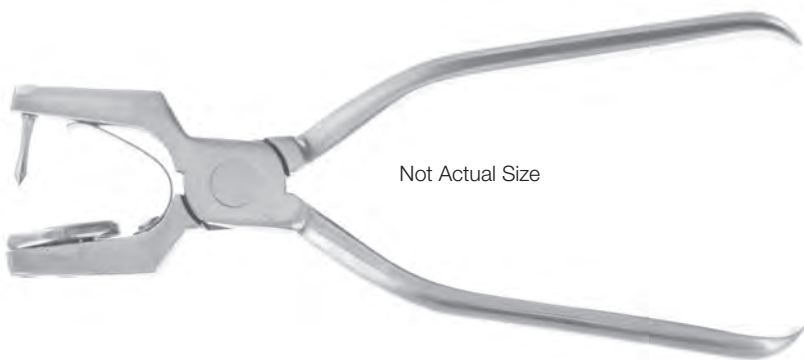
CAT. #	GAUGE & LENGTH	BALL DIAMETER
STRAIGHT		
FN-7900	24G - 1"	1.25mm
FN-7901	22G - 1"	1.25mm
FN-7920	22G - 1.5"	1.25mm
FN-7921	20G - 1"	2.25mm
FN-7903	20G - 3"	2.25mm
FN-7905	18G - 2"	2.25mm
FN-7906	18G - 3"	2.25mm
FN-7908	16G - 3"	3mm
FN-7909	14G - 3"	4mm
CURVED		
FN-7910	20G - 1.5"	2.25mm
FN-7911	20G - 3"	2.25mm
FN-7913	18G - 2"	2.25mm
FN-7914	18G - 3"	2.25mm
FN-7916	16G - 3"	3mm
FN-7917	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
	200-350g	14G	3"	4mm	curved
		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

1.5mm

2mm



RS-9910 Shown

65-9910

Micro Tattoo System

65-9911

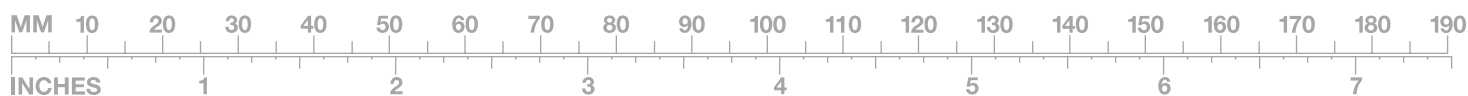
Green paste for
micro tattoo
1 oz.

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 Clamps**

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.

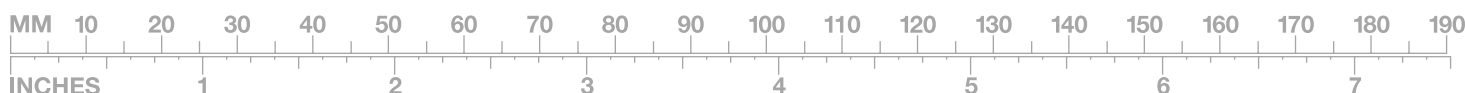
(see chart on opposite page for dimension references)

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

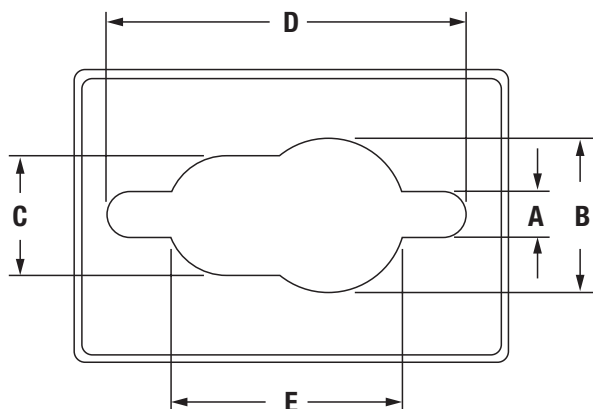
Slot Thickness .5mm (see chart on opposite page for dimension references)

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					

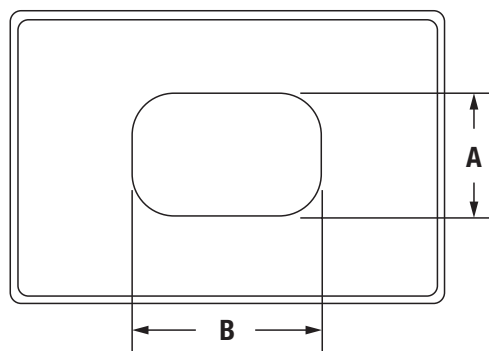
The coronal brain matrices have an additional mid-line sagittal cut to aid in the separation of the left and right hemispheres.



Brain Matrices

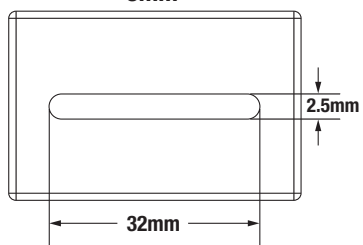


Heart Matrices



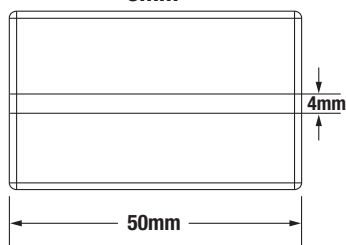
Cavity Depth

5mm



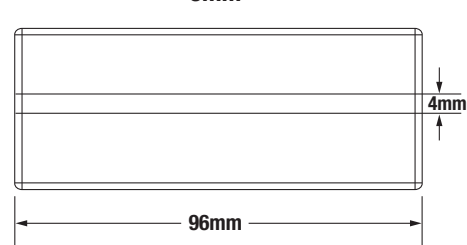
Cavity Depth

5mm



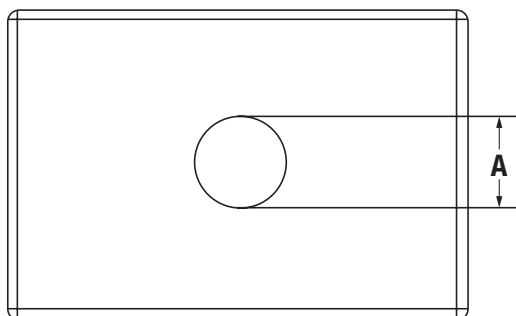
Cavity Depth

5mm



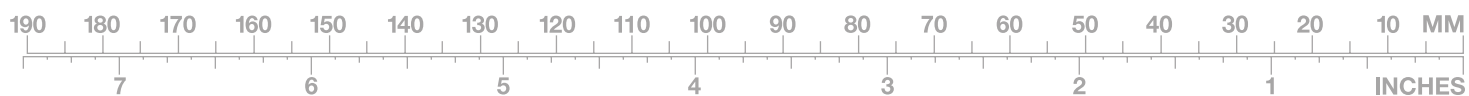
Spinal Cord Matrices

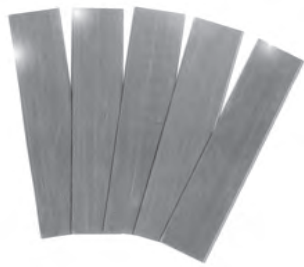
0.5mm Steel part#	1mm Steel part#	Description	Cavity Width	Cavity Length	Cavity Depth
N/A	SA-5110	Mouse Spinal Cord	2.5mm	32mm	5mm
SA-5100	N/A	Mouse Spinal Cord	4mm	50mm	5mm
SA-5120	N/A	Rat Spinal Cord	4mm	96mm	5mm



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

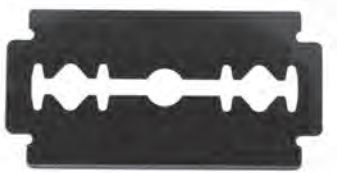




RS-9885

Matrix Blades

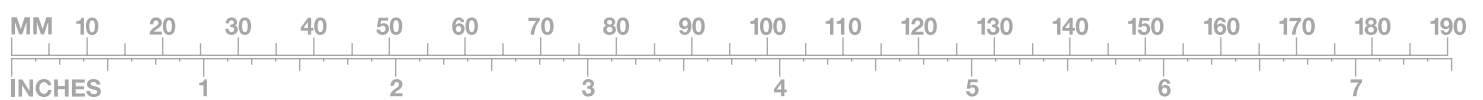
Alto Matrix
Blades,
0.22mm thick,
3" x 7.5"
pack of 25



RS-9886

**Double edge
blade**

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





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

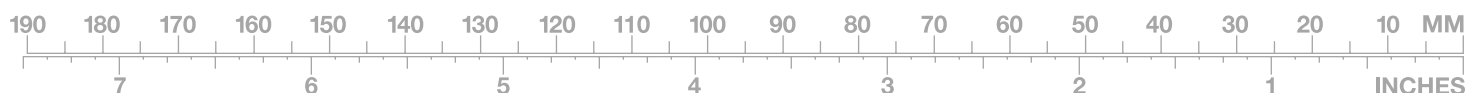
The **Ideal Micro-Drill™** is designed for research applications that require surgical burs and trephines. The drill is constructed of light-weight aluminum alloy for balance and control and is powered by a rechargeable 6-volt ni-MH battery. Under normal operating conditions the unit will function for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

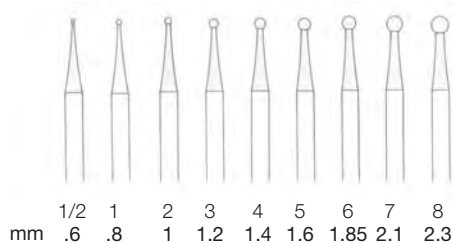
Features:

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

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.





Please specify size when ordering

Carbide Burs and Trephines to be used
with Ideal Micro-Drills

RS-6280C

Round

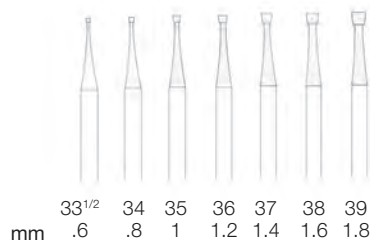
sizes 1/2 thru 8

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

Trephine

micro dissecting

hand piece

carbide

2.3mm shaft diameter

RS-6306

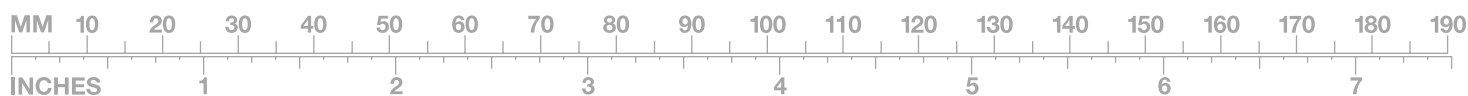
tip diameter 1.8mm

RS-6308

tip diameter 2.3mm

RS-6310

tip diameter 2.7mm



Instrument Services





Instrument Color Coding



Cost Effective Identification

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

Cleaning, sterilization & maintenance of surgical instruments

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			
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

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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				

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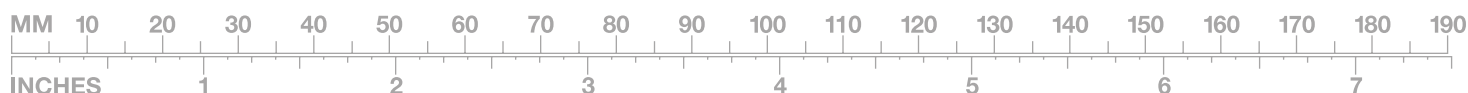
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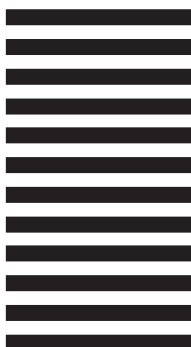
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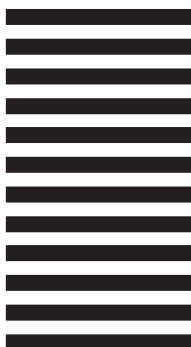
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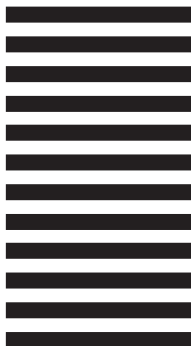
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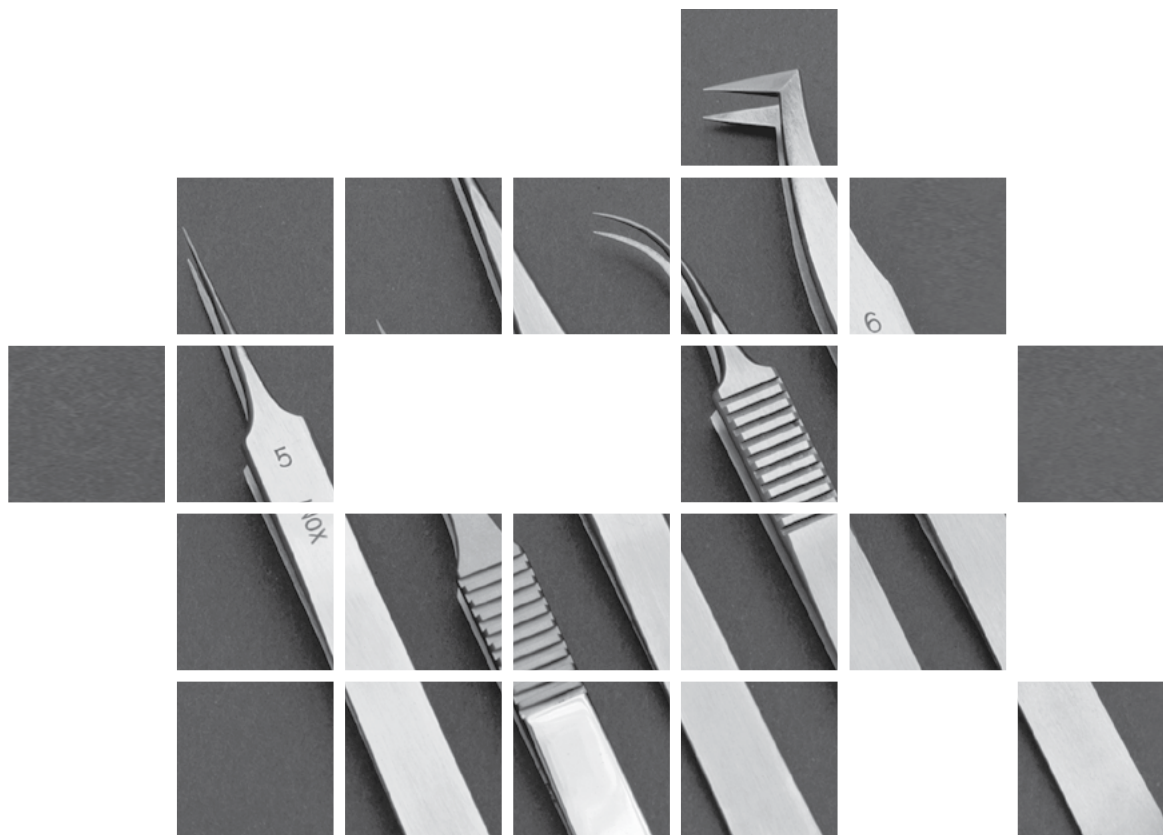
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