



ROBOZ SURGICAL INSTRUMENT CATALOG



2019

The Newly Redesigned Ideal Micro Drill



Ideal Micro Drill - available in various colors for a limited time, see page 179 for more information

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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.

Material	Rockwell Hardness	Magentic	Notes
Inox	55	Yes	- Flexible tips - Stain resistant
Dumoxel	36	No	- Stain and corrosion resistant - Soft, flexible tips
Dumostar	62	No	- Heat resitant to over 500C - Extremely corrosion resistant - Flexible tips, resistant to fatigue
Titanium	37	No	- 33% lighter than other alloys - Extreme corrosion resistance - Ideal for salt water use - Heat resistant to 400C
Carbon Steel	60	Yes	- Durable but brittle tips - Stains easily

Tip Dimensions

Most tweezer patterns are available with several tip dimension options, with the finest one labeled "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 the "biologie" tips for each pattern:

Pattern	Biologie Tip Dimenensions (Width x Thickness)	Part Number	Page
Pattern #1	0.10mm x 0.06mm	RS-4900	3
Pattern #2	0.17mm x 0.07mm	RS-4902	3
Pattern #3	0.08mm x 0.04mm	RS-4903, RS-4966	3
Pattern #4	0.06mm x 0.02mm	RS-4904, RS-4974	4
Pattern #5	0.05mm x 0.01mm	RS-5015, RS-4905	6
Pattern #7	0.07mm x 0.03mm	RS-4907, RS-5037	8

NOTE: The #5SF Dumont Tweezers, found on page 5, have the finest overall tip dimensions at 0.025mm x 0.05mm.

Pattern #1
length 120mm
Tip Profile

- RS-5040** tip 0.20 x 0.12mm
Material: INOX
- RS-4900** tip 0.10 x 0.06mm
Material: INOX
Biologie Tips
- RS-4960** tip 0.20 x 0.12mm
Material: Dumostar



RS-4900 Shown



RS-4960 Shown

Pattern #2
length 120mm
Tip Profile

- RS-4902** tip 0.17 x 0.07mm
Material: INOX
Biologie Tips
- RS-4962** tip 0.34 x 0.14mm
Material: Dumostar
- RS-5041** tip 0.34 x 0.14mm
Material: INOX



RS-4902 Shown



RS-4962 Shown

Pattern #3
length 120mm
Tip Profile

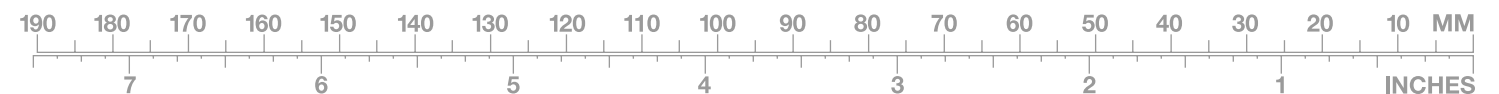
- RS-5042** tip 0.17 x 0.10mm
Material: INOX
- RS-4903** tip 0.08 x 0.04mm
Material: INOX
Biologie Tips
- RS-4964** tip 0.17 x 0.10mm
Material: Dumostar
- RS-4966** tip 0.08 x 0.04mm
Material: Dumostar
Biologie Tips



RS-4903 Shown



RS-4966 Shown





RS-4970 Shown

RS-4968

Pattern #3C
length 110mm
Tip Profile

tip 0.17 x 0.10mm
Material: Dumostar

RS-4970

tip 0.08 x 0.04mm
Material: Dumostar
Biologie Tips

RS-5043

tip 0.17 x 0.10mm
Material: INOX



RS-4913

Pattern #Mini 3
length 70mm
Tip Profile

tip 0.08 x 0.04mm
Material: INOX
Biologie Tips



RS-4904 Shown

RS-5044

Pattern #4
length 110mm
Tip Profile

tip 0.13 x 0.08mm
Material: INOX

RS-4904

tip 0.06 x 0.02mm
Material: INOX
Biologie Tips

RS-4972

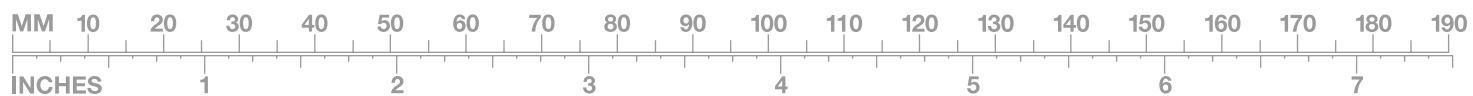
tip 0.13 x 0.08mm
Material: Dumostar

RS-4974

tip 0.06 x 0.02mm
Material: Dumostar
Biologie Tips



RS-4972 Shown



RS-5001

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

tip 0.06 x 0.02mm
half curve
Material: INOX
Biologie Tips



RS-4955

Pattern #5 SF
length 110mm
Tip Profile

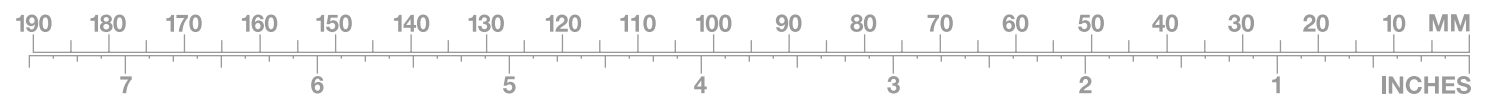
tip 0.025 x 0.005mm
Material: INOX
Superfine Tips



RS-4925

Pattern #5 Ceramic
length 110mm
Tip Profile

tip 0.05 x 0.01mm
Material:
Black Ceramic-Coated INOX
Biologie Tips





RS-4905 Shown



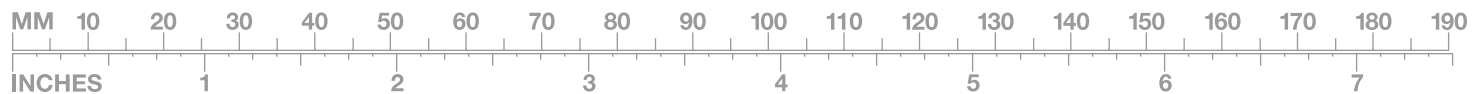
RS-4976 Shown

- Pattern #5**
length 110mm
Tip Profile
- RS-5045** tip 0.10 x 0.06mm
Material: INOX
 - RS-5015** tip 0.05 x 0.01mm
Material: INOX
Biologie Tips
 - RS-4905** tip 0.05 x 0.01mm
Material: INOX
Biologie Tips
Serrated Grip
 - RS-5035** tip 0.08 x 0.04mm
Material: Carbon Steel
 - RS-5065** tip 0.10 x 0.06mm
Material: Dumoxel
 - RS-5060** tip 0.05 x 0.01mm
Material: Dumoxel
Biologie Tips
 - RS-4976** tip 0.10 x 0.06mm
Material: Dumostar
 - RS-4978** tip 0.05 x 0.01mm
Material: Dumostar
Biologie Tips
 - RS-5055** tip 0.10 x 0.06mm
Material: Titanium
 - RS-5050** tip 0.05 x 0.01mm
Material: Titanium
Biologie Tips



RS-5005 Shown

- Pattern #5**
45° angle
length 109mm
Tip Profile
- RS-5005** tip 0.05 x 0.01mm
Material: INOX
Biologie Tips
 - RS-5058** tip 0.10 x 0.06mm
Material: Dumoxel



Pattern #5
90° angle
length 106mm
Tip Profile

- RS-4919** tip 0.05 x 0.01mm
Material: INOX
Biologie Tips



Pattern #5
15° up
length 105mm
Tip Profile

- RS-5045A** tip 0.10 x 0.06mm
Material: INOX



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

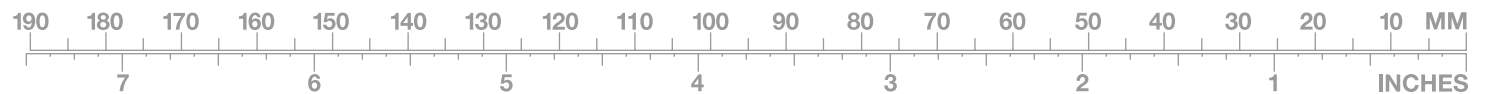
- RS-5010** tip 0.05 x 0.01mm
Material: INOX
Biologie Tips
- RS-5063** tip 0.05 x 0.01mm
Material: Dumoxel
Biologie Tips
- RS-4984** tip 0.05 x 0.01mm
Material: Dumostar
Biologie Tips



RS-5010 Shown

Pattern #5A
oblique points
length 115mm
Tip Profile

- RS-4928** tip 0.06 x 0.02mm
Material: INOX
Biologie Tips





RS-5020

Pattern #N5
cross action
length 108mm
Tip Profile

tip 0.05 x 0.01mm
Material: INOX
Biologie Tips



RS-5046

Pattern #6
length 115mm
Tip Profile

tip 0.17 x 0.10mm
Material: INOX



RS-4907 Shown

RS-5047

Pattern #7
length 115mm
Tip Profile

tip 0.17 x 0.10mm
Material: INOX

RS-4907

tip 0.07 x 0.03mm
Material: INOX
Biologie Tips



RS-5047 Shown

RS-5064

tip 0.17 x 0.10mm
Material: Dumoxel

RS-5037

tip 0.07 x 0.03mm
Material: Dumoxel
Biologie Tips

RS-4980

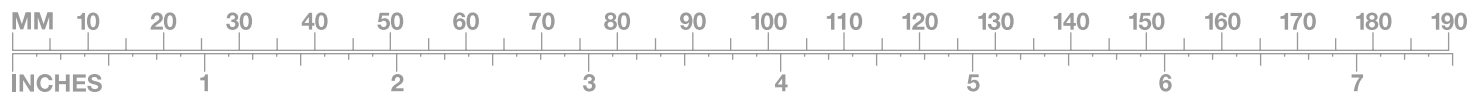
tip 0.17 x 0.10mm
Material: Dumostar

RS-4982

tip 0.07 x 0.03mm
Material: Dumostar
Biologie Tips

RS-5039

tip 0.07 x 0.03mm
Material: Titanium
Biologie Tips



RS-4935

Pattern #7S
short curve
length 117mm
Tip Profile

tip 0.07 x 0.03mm
Material: INOX
Biologie Tips



RS-5027

Pattern #N7
cross action
length 115mm
Tip Profile

tip 0.07 x 0.03mm
Material: INOX
Biologie Tips



RS-4941

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

tip 0.10 x 0.06mm
45° angle
Material: INOX
Biologie Tips



RS-4950

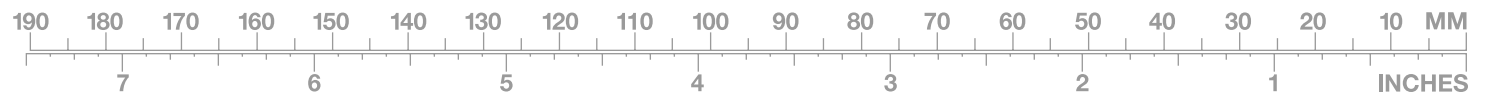
Pattern #PP
heavy duty
length 135mm
Tip Profile

tip 0.10 x 0.06mm
Material: INOX
Biologie Tips



RS-4951

tip 0.10 x 0.06mm
45° Angle
Material: INOX
Biologie Tips





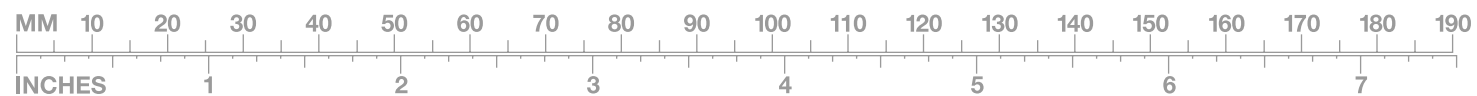
RS-4990 **Vessel Cannulation Forceps**
 for tubing of 0.35mm OD
 length 131mm
 tip width 0.75mm
 tip diameter 0.35mm
 Material: INOX



RS-4991 **Vessel Cannulation Forceps**
 for tubing of .5mm OD
 length 130mm
 tip width 0.9mm
 tip diameter 0.5mm
 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 0.20 x 0.16mm



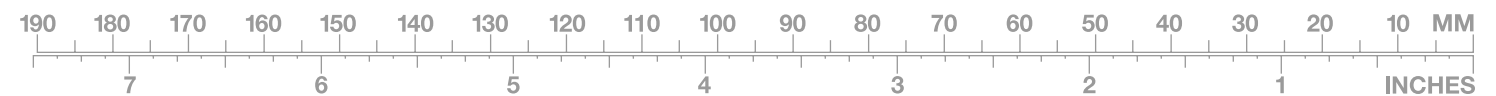
RS-4929 **Vessel Dilation Forceps**
 length 115mm
 tip 0.20 x 0.16mm



RS-4930 **Vessel Dilation Forceps**
 length 115mm
 tip 0.3 x 0.6mm



RS-4952 **Corneal Forceps**
 length 135mm
 tip 0.30 x 0.30mm
 retention hole diameter 0.35mm





RS-5169 BONN
 tying platform
 0.3mm tip width
 length 2 3/4"



RS-5170 BONN
 tying platform
 1 x 2 teeth
 0.12mm teeth
 0.3mm tip width
 length 2.75"



RS-5180 BISHOP-HARMON
 cross serrated
 0.5mm tip width
 length 3.25"



RS-5182 BISHOP-HARMON
 1 x 2 teeth
 0.3mm teeth
 0.5mm tip width
 length 3.25"



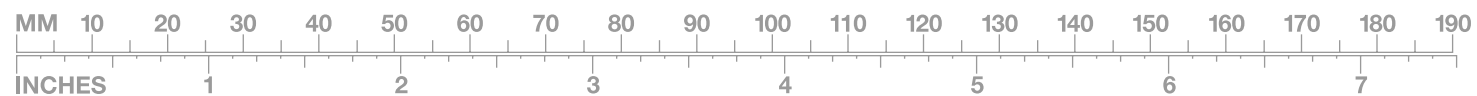
RS-5110 GRAEFE
 serrated, straight
 tip width 0.6mm
 length 2.75"



RS-5111 GRAEFE
 serrated, curved
 tip width 0.6mm
 length 2.75"



RS-5112 GRAEFE
 1 x 2 teeth, straight
 tip width 0.6mm
 length 2.75"



RS-5113 GRAEFE
 1 x 2 teeth, curved
 tip width 0.6mm
 length 2.75"



RS-5070 Micro Dissecting
 straight
 fine thin tips
 tip width 0.2mm
 length 3.25"



RS-5079 Micro Dissecting
 smooth jaws, angular
 extra fine tips
 tip width 0.2mm
 length 3.5"



RS-5075 Micro Dissecting
 cross action
 fine tips
 tip width 0.2mm
 length 3.5"



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



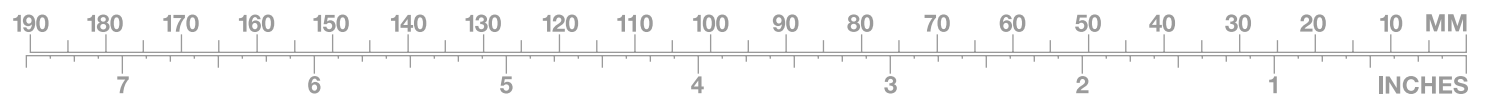
RS-5166 GILL
 slight curve, 1 x 2 teeth
 tip width 0.6mm
 length 3"



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 3.75"



RS-5174 **McPHERSON**
straight
with tying platform
1 x 2 teeth
0.2mm teeth
0.45mm tip width
length 4"



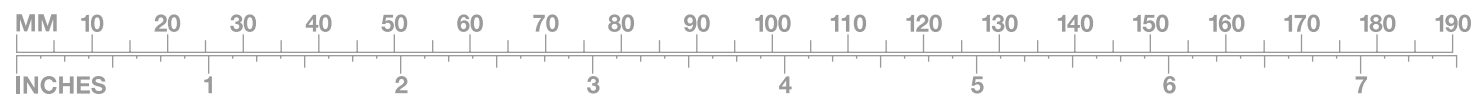
RS-5175 **McPHERSON**
angled
with tying platform
1 x 2 teeth
0.2mm teeth
0.45mm tip width
length 4"



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"

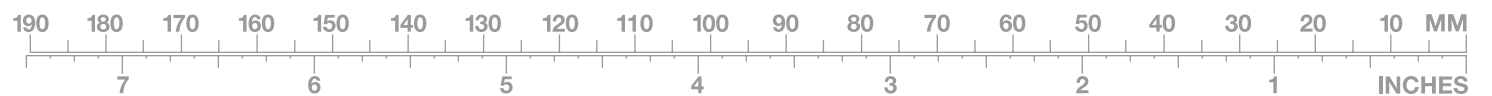


RS-5130 Shown

RS-5130 stainless steel

RS-5130T titanium

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"



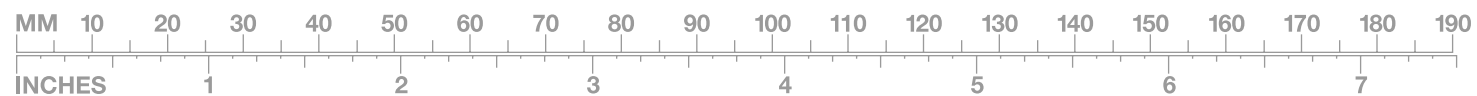
RS-5137 Shown

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-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"

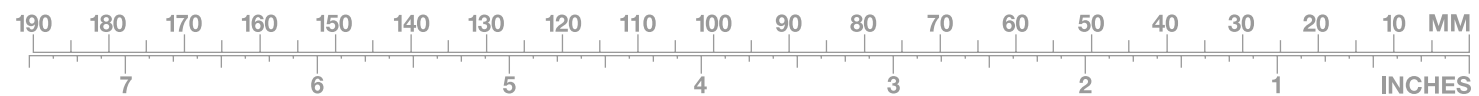


RS-5204 **McCULLOUGH**
smooth jaws
tip width 1.5mm
length 4"



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
 tip width 1mm
 length 4"



RS-5228 **NUGENT**
 smooth jaws
 tip width 1.2mm
 length 4.25"
RS-5229 angled
 straight



Please note: Handle in photo slightly different than actual instrument

RS-5163 **ARRUGA**
 micro embryonic
 capsule
 curved
 length 4"



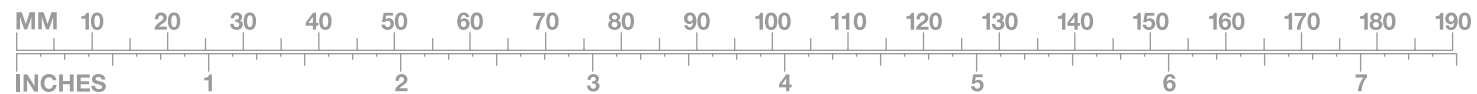
RS-5230 **Micro-ADSON**
 serrated, delicate
 tip width 0.5mm
 length 4.75"



RS-5231 **BROWN ADSON**
 7 x 7 teeth
 side grasping
 length 4.75"



RS-5232 **Micro-ADSON**
 1 x 2 teeth, delicate
 tip width 0.5mm
 length 4.75"



ADSON
 length 4.75"
 1 x 2 teeth



RS-5233 with serrations
 tip width 1mm

RS-5235 without serrations
 tip width 1mm

RS-5233 Shown

RS-5234 **ADSON**
 2 x 3 teeth
 tip width 1.3mm
 length 4.75"



ADSON
 tip width 1mm
 length 4.75"

RS-5239 serrated
RS-5236 cross serrated
 carbide jaws



RS-5237 **HUDSON (EWALD)**
 serrated
 tip width 1.4mm
 length 4.75"



RS-5238 **HUDSON (EWALD)**
 tip width 1.4mm
 1 x 2 teeth
 length 4.75"



SEMKEN
 length 5"

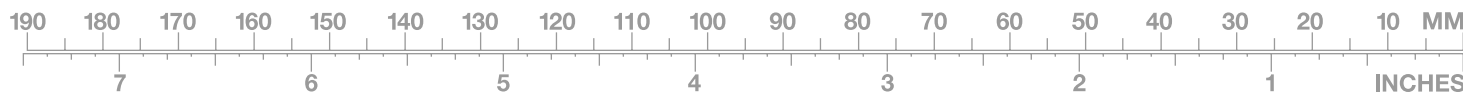
RS-5240 serrated
 tip width 1.2mm

RS-5242 1 x 2 teeth
 tip width 1.2mm

RS-5244 2 x 3 teeth
 tip width 1.4mm



RS-5242 Shown





RS-5162 - Fenestrated Forceps



RS-5248 - Semken Forceps 1x2 Teeth



RS-5255 - Singley Organ Holding Forceps

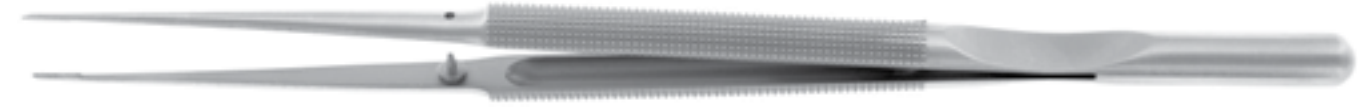
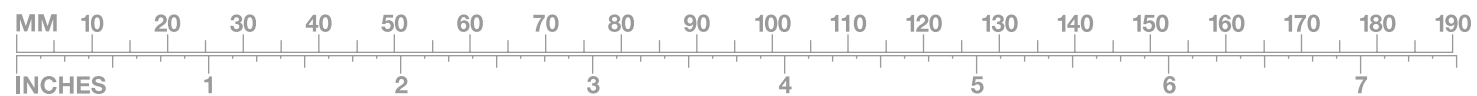


RS-5262 - Micro Suturing Round Handled Forceps

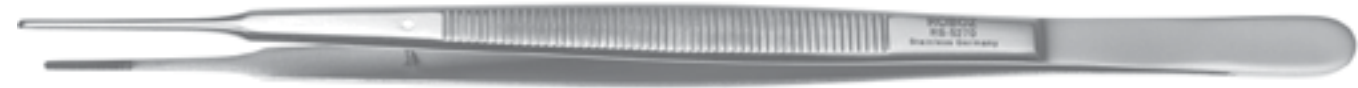


RS-5264 - Micro Suturing Round Handled Forceps, Curved

Part#	Description	Length	Tip Width	Features
Fenestrated Forceps				
RS-5160		3.5"	n/a	1.5mm diameter
RS-5161		3.5"	n/a	3mm diameter
RS-5162		3.5"	n/a	6mm diameter
Semken Forceps				
RS-5246		6"	1.6mm	serrated
RS-5248		6"	1.6mm	1 x 2 teeth
Singley Organ Holding Forceps				
RS-5255		6"	n/a	n/a
Round Handled Micro Suturing Forceps				
RS-5260		7"	0.6mm	tying platform
RS-5262		7"	0.3mm	tying platform
RS-5263		5"	0.3mm	curved, tying platform
RS-5264		7"	0.3mm	curved, tying platform



RS-5266 - Round Handled Micro Suturing Forceps



RS-5270 - Gerald Micro Dissecting Forceps



RS-5271 - Gerald Micro Dissecting Forceps

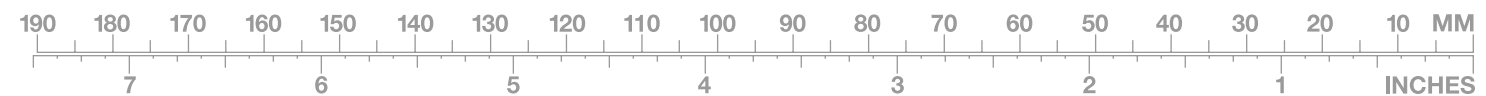


RS-5280 - Cushing Micro Dissecting Forceps



RS-5284 - Cushing Micro Dissecting Forceps

Part#	Description	Length	Tip Width	Features
Round Handled Micro Suturing Forceps				
RS-5266		7"	0.3mm	straight, diamond dust tips, counter balanced handle
RS-5267		7"	0.3mm	curved, diamond dust tips, counter balanced handle
Gerald Micro Dissecting Forceps				
RS-5270		7"	n/a	straight, serrated
RS-5272		7"	n/a	straight, 1x2 teeth
RS-5271		7"	n/a	curved, serrated
RS-5273		7"	n/a	curved, 1 x 2 teeth
Cushing Micro Dissecting Forceps				
RS-5280		7"	n/a	scraper end, serrated
RS-5282		7"	n/a	1 x 2 teeth
RS-5284		7"	n/a	carbide jaws, cross serrated





RS-5310 Shown

POTTS-SMITH
serrated

- RS-5310** length 7"
- RS-5312** length 8.25"
- RS-5314** length 9.5"



RS-5320

POTTS-SMITH
1 x 2 teeth
serrated
length 7"



RS-5348

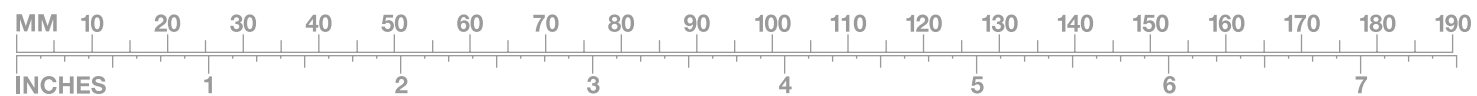
Micro Alligator
serrated jaws
tip width 0.8mm
jaw length 4mm
shaft length 3.25"



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 4.5"
- RS-8102** length 5"
- RS-8104** length 5.5"
- 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 4.5"
- RS-8122** length 5"
- RS-8124** length 5.5"
- RS-8124T** length 5.5", titanium
- RS-8126** length 6"



RS-8120 Shown



RS-8242 Shown

BROWN
8 x 8 teeth
side grasping

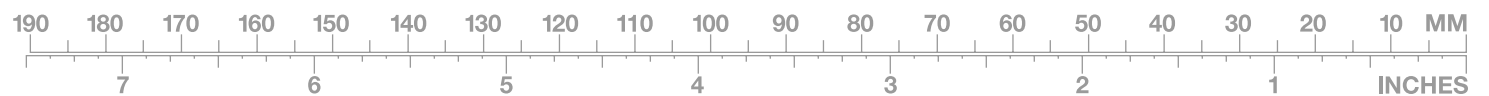
- RS-8242** length 6"
- RS-8243** length 8"
- RS-8244** length 10"

Splinter Forceps
serrated
fine points
tip width 0.3mm

- RS-8150** length 3.5"
- RS-8152** length 4"
- RS-8154** length 4.5"



RS-8150 Shown





RS-8160 Shown

- RS-8160
- RS-8162
- RS-8164
- RS-8166

Tissue Forceps
1 x 2 teeth
length 4.5"
length 5"
length 5.5"
length 6"



RS-8180 Shown

- RS-8180
- RS-8182
- RS-8184
- RS-8186

Tissue Forceps
1 x 2 teeth
delicate
length 4.5"
length 5"
length 5.5"
length 6"



RS-8208 Shown

- RS-8208
- RS-8210
- RS-8212
- RS-8214

Tissue Forceps
2 x 3 teeth
length 4.5"
length 5"
length 5.5"
length 6"



RS-8220 Shown

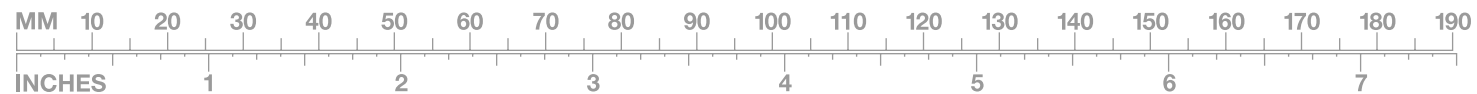
- RS-8220
- RS-8224

Tissue Forceps
3 x 4 teeth
length 5"
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 4.25"



- RS-8249

GRAEFE
locking
jaw width 4.5mm
fine teeth
length 4.25"



- RS-8254

MOLONEY
serrated
slight curve
tip width 0.8mm
length 5"



- RS-8260
- RS-8261

KUEHNE
flat jaw
length 4"
angled
straight

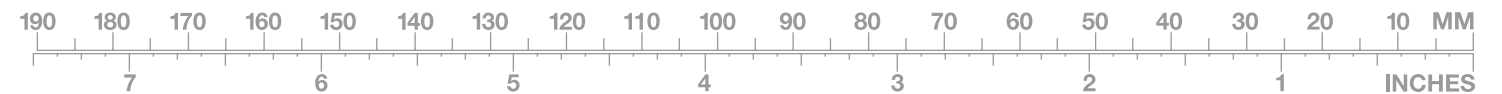


- RS-8270

RUSSIAN
length 6"



RS-8270 Shown





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



RS-8290 **LUCAE**
serrated,
bayonet
length 5.75"



RS-8298 **JANSEN**
serrated,
bayonet
length 8.25"

80% of Actual Size



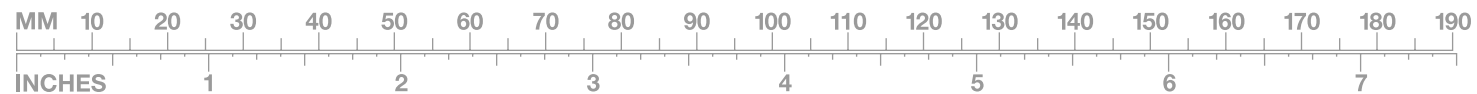
RS-7560 Shown

RS-7560 **DeBAKEY**
jaw width 2.5mm
length 6"
RS-7562
length 8"



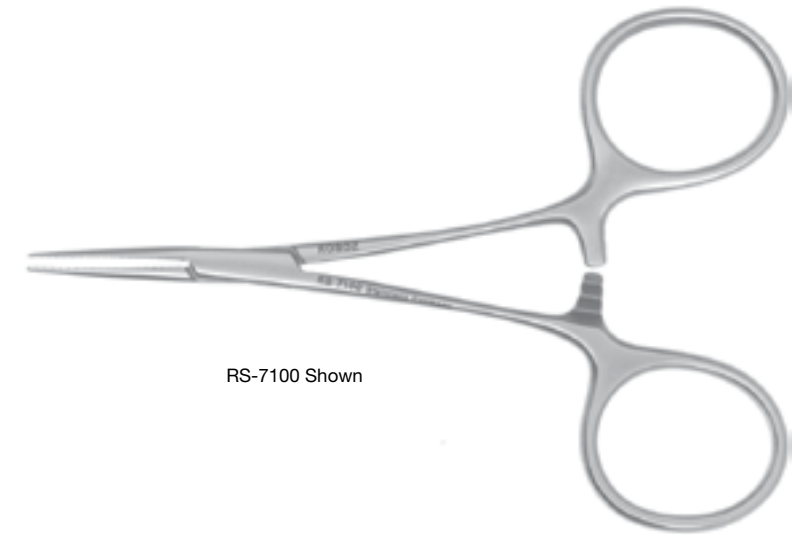
RS-7561 Shown

RS-7561 **DeBAKEY**
jaw width 1.5mm
length 6"
RS-7566
length 8"



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

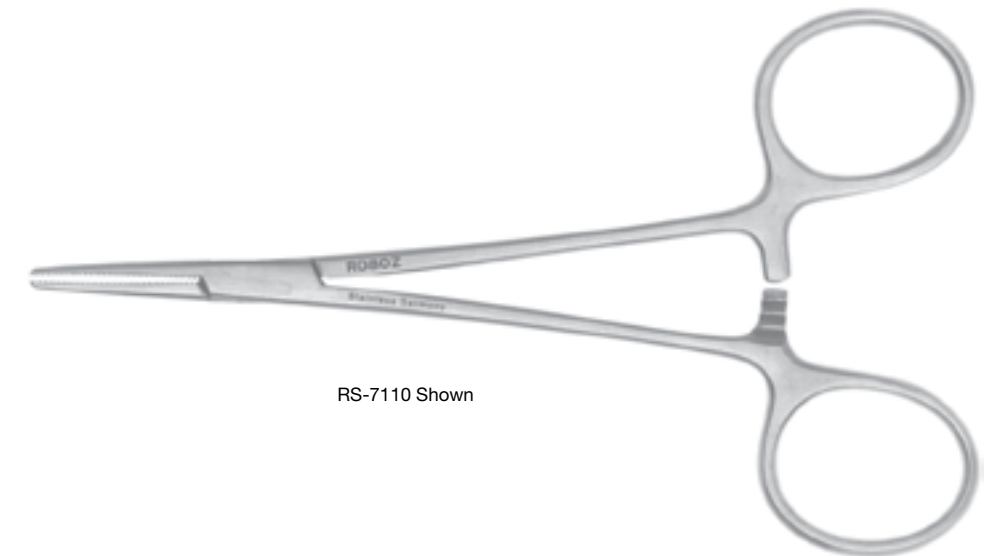
RS-7100 straight
RS-7101 curved



RS-7100 Shown

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

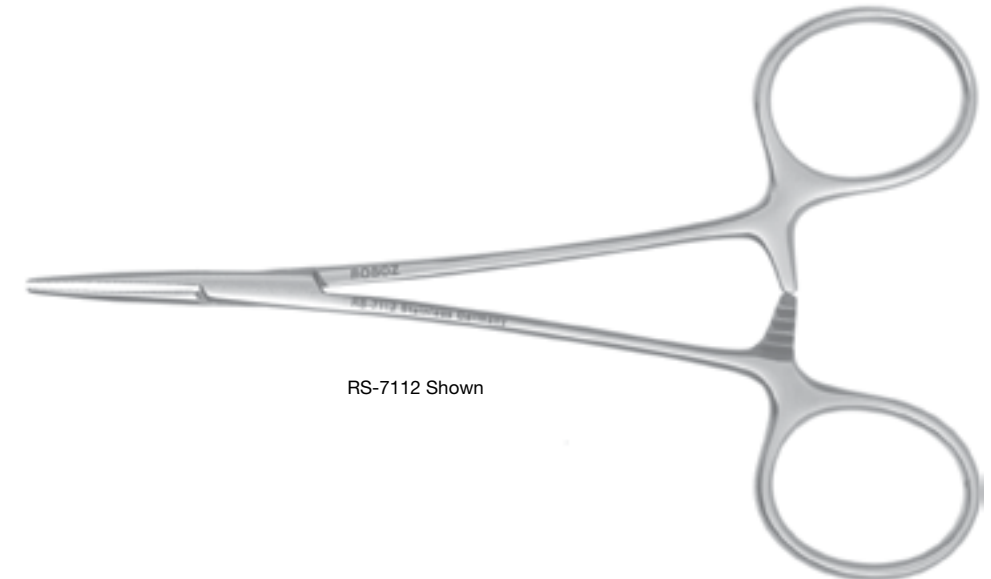
RS-7110 straight
RS-7110L left-handed version
RS-7111 curved
RS-7111L left-handed version



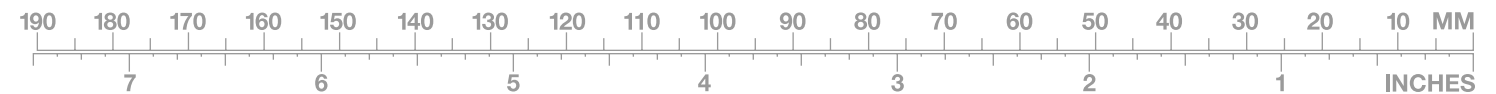
RS-7110 Shown

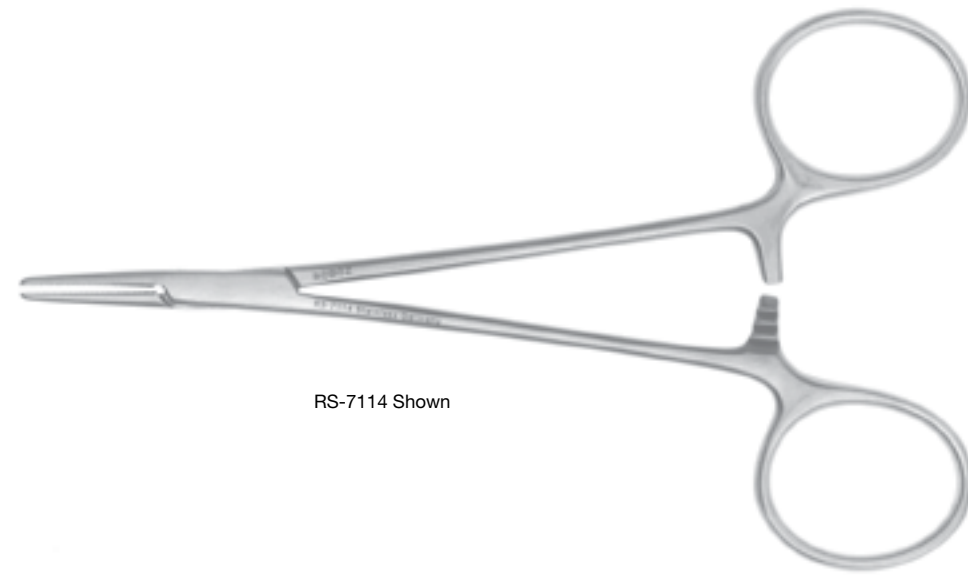
HALSTED
mosquito
extra delicate
length 5"
tip diameter 0.6mm
jaw width 1.7mm

RS-7112 straight
RS-7113 curved



RS-7112 Shown



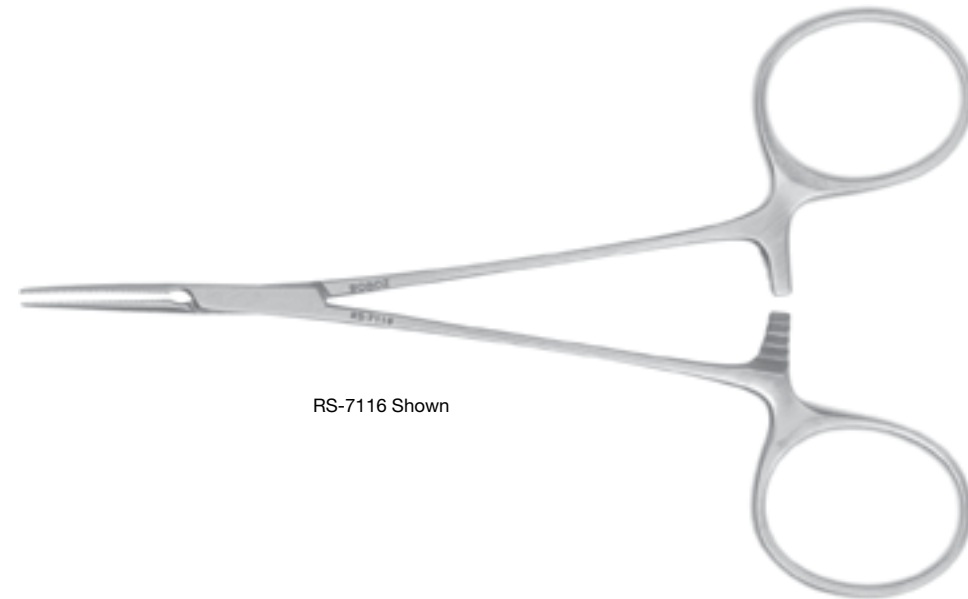


RS-7114 Shown

RS-7114
RS-7115

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

straight
curved

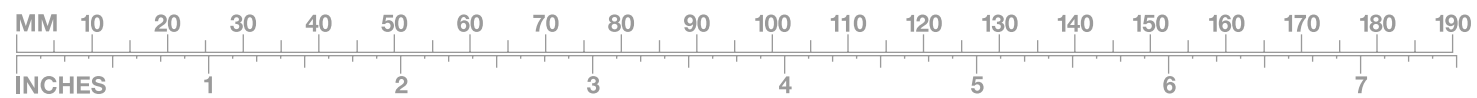


RS-7116 Shown

RS-7116
RS-7117

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

straight
curved



KELLY
length 5.5"
tip diameter 1.5mm
jaw width 2.3mm

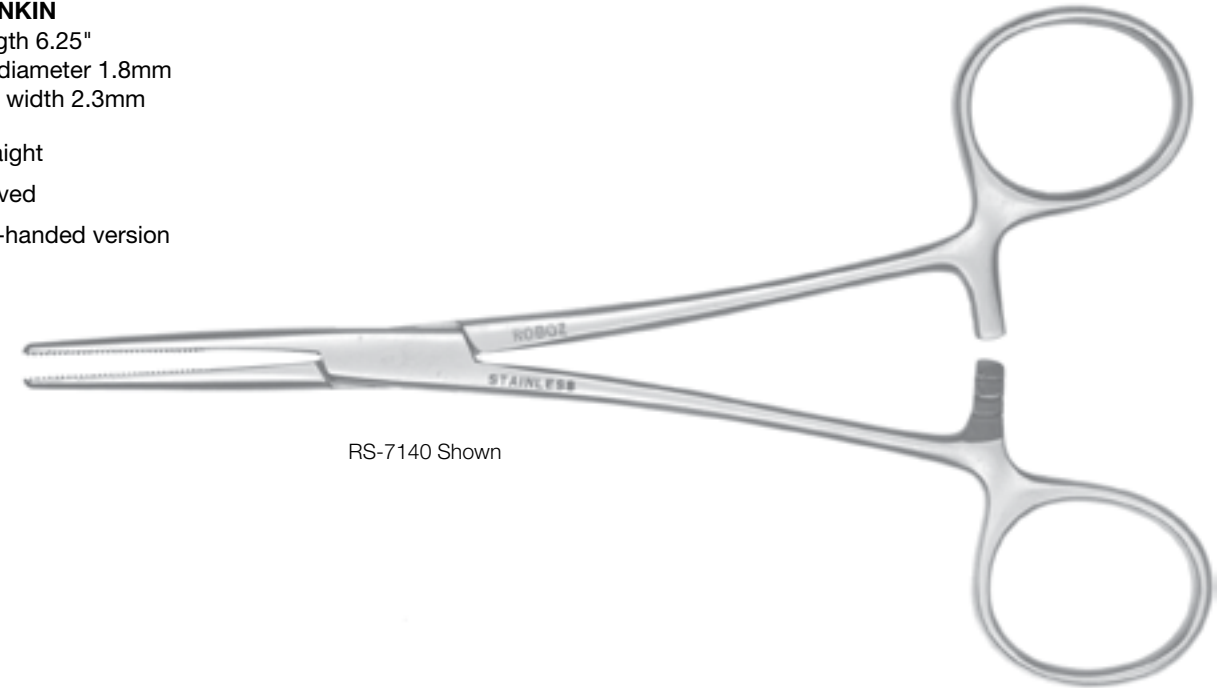
RS-7130 straight
RS-7130L left-handed version
RS-7131 curved
RS-7131L left-handed version



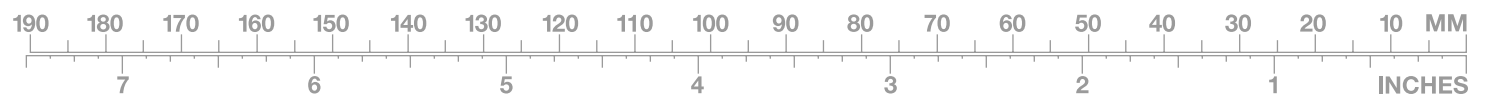
RS-7130 Shown

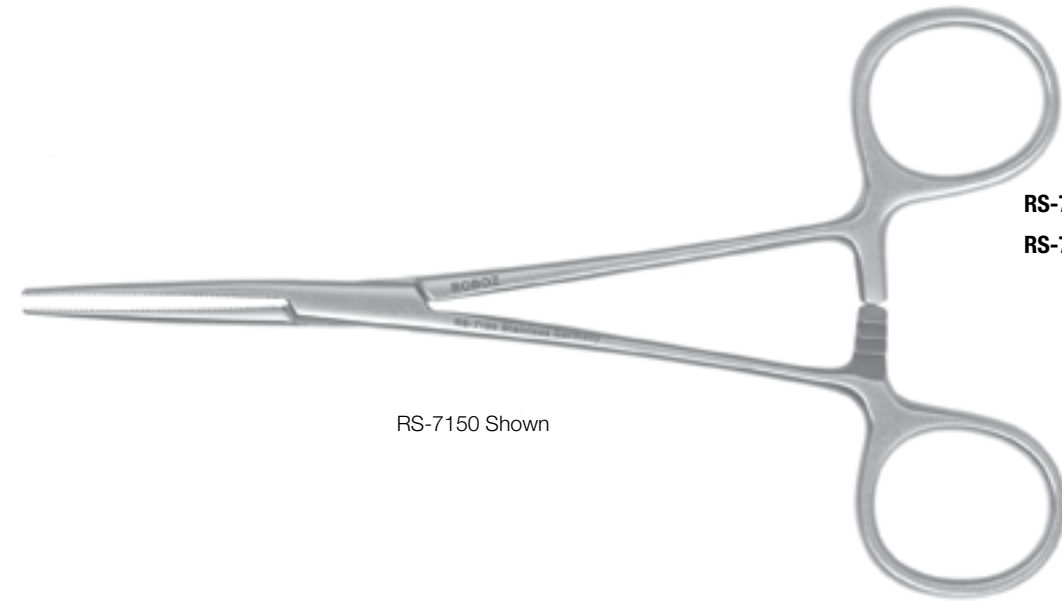
RANKIN
length 6.25"
tip diameter 1.8mm
jaw width 2.3mm

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



RS-7140 Shown



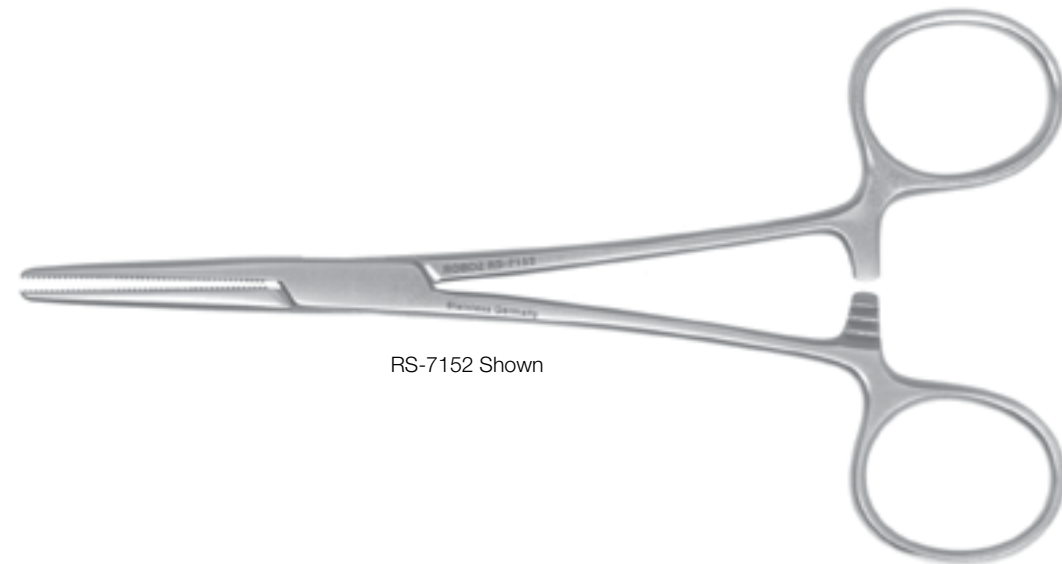


RS-7150 Shown

RS-7150
RS-7151

CRILE
extra delicate
length 5.5"
tip diameter 0.9mm
jaw width 1.7mm

straight
curved



RS-7152 Shown

RS-7152

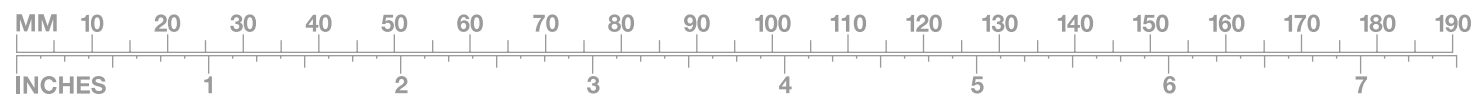
RS-7153

RS-7154

CRILE
straight
length 5.5"
tip diameter 1.5mm
jaw width 2.3mm

curved
length 5.5"
tip diameter 1.5mm
jaw width 2.3mm

straight
length 6.25"
tip diameter 1.9mm
jaw width 2.6mm



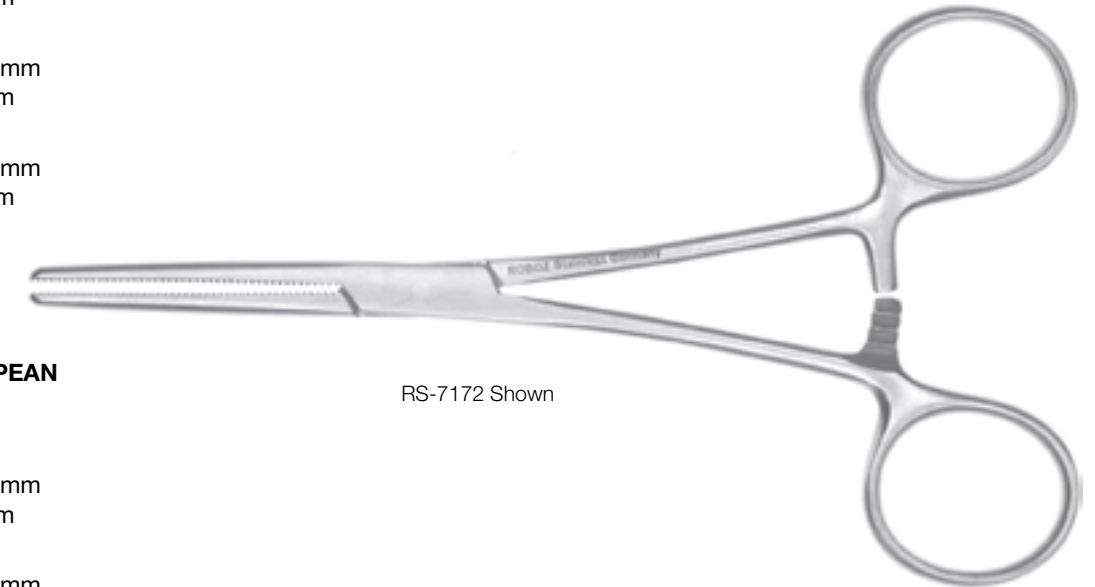
ROCHESTER-PEAN
straight

RS-7172 length 5.5"
tip diameter 2.4mm
jaw width 2.8mm

RS-7174 length 6.25"
tip diameter 2.6mm
jaw width 3.4mm

RS-7176 length 7.25"
tip diameter 3.1mm
jaw width 3.8mm

RS-7182 length 10"
tip diameter 3.8mm
jaw width 4.1mm



RS-7172 Shown

ROCHESTER-PEAN
curved

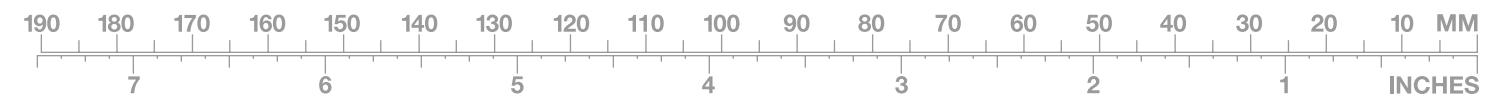
RS-7173 length 5.5"
tip diameter 2.4mm
jaw width 2.8mm

RS-7175 length 6.25"
tip diameter 2.6mm
jaw width 3.4mm

RS-7177 length 7.25"
tip diameter 3.1mm
jaw width 3.8mm

RS-7177L left handed

RS-7183 length 10"
tip diameter 3.8mm
jaw width 4.1mm





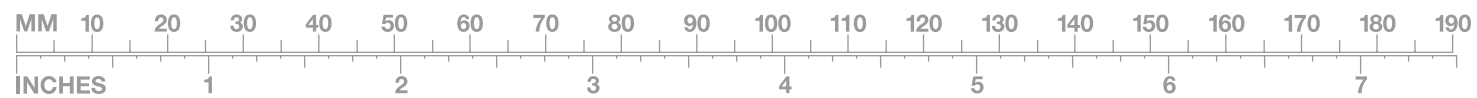
RS-7211

REYNOLDS
full-curve
length 5.5"
tip diameter 1.6mm
jaw width 2.2mm

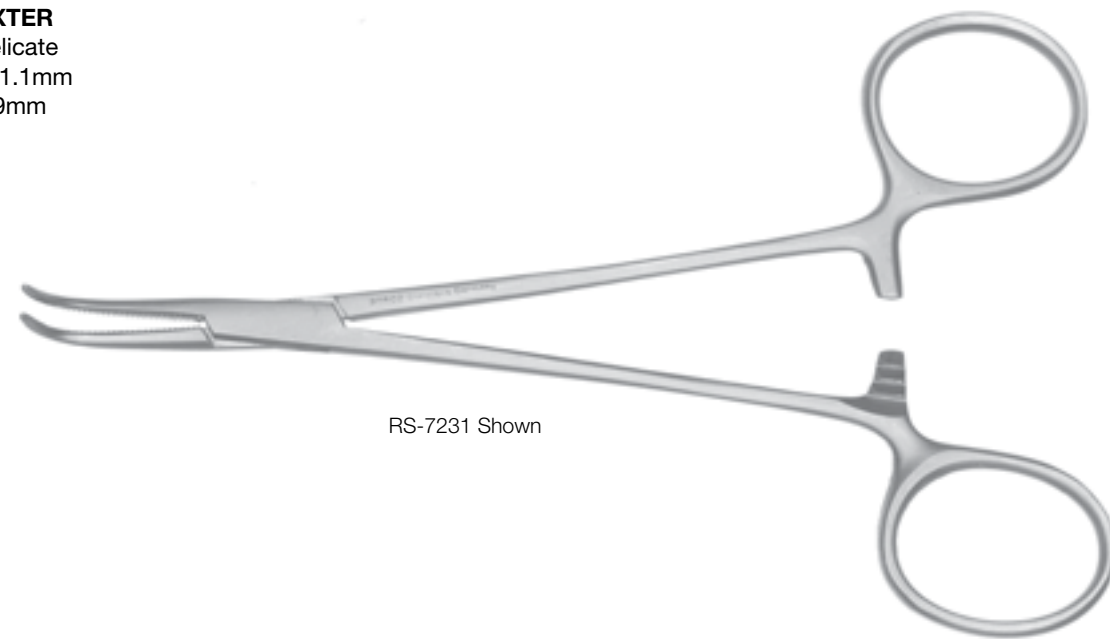


RS-7220

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

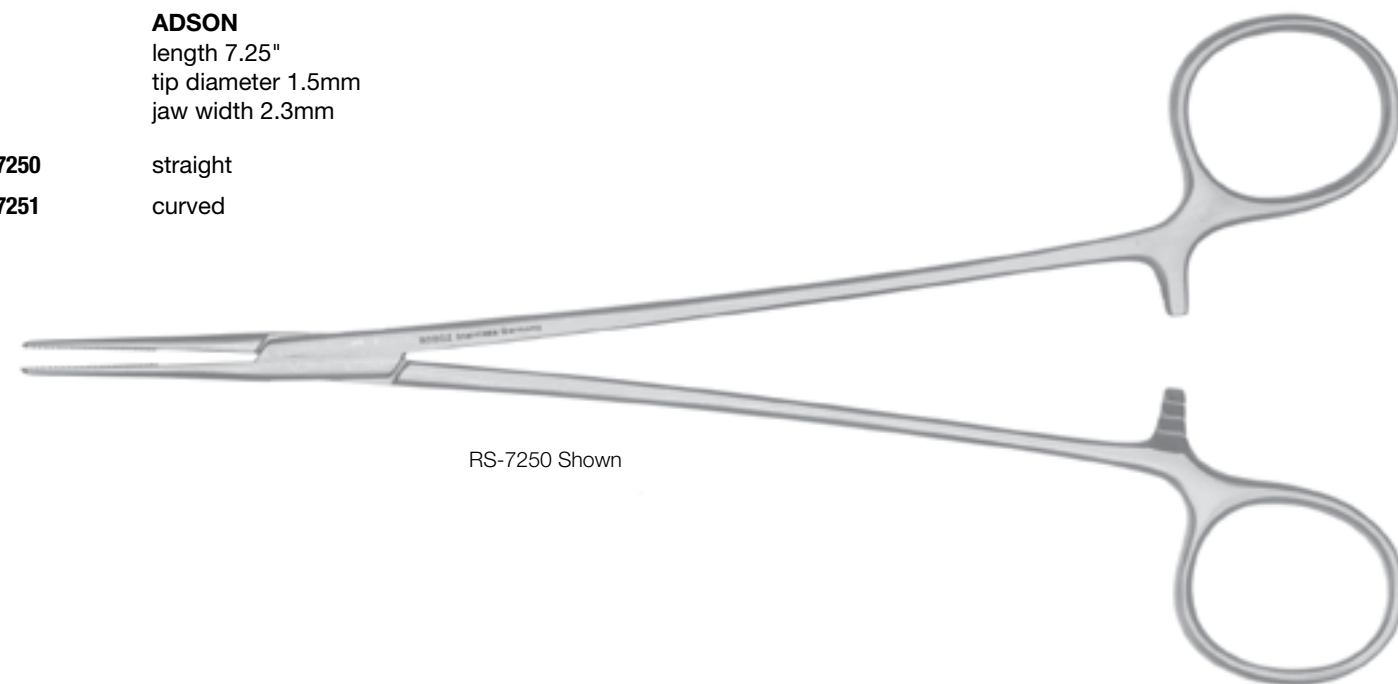


GEMINI-MIXTER
full curve, delicate
tip diameter 1.1mm
jaw width 1.9mm
RS-7231 length 5.5"
RS-7233 length 7"

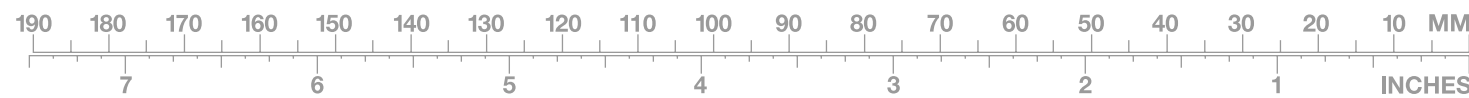


RS-7231 Shown

ADSON
length 7.25"
tip diameter 1.5mm
jaw width 2.3mm
RS-7250 straight
RS-7251 curved



RS-7250 Shown



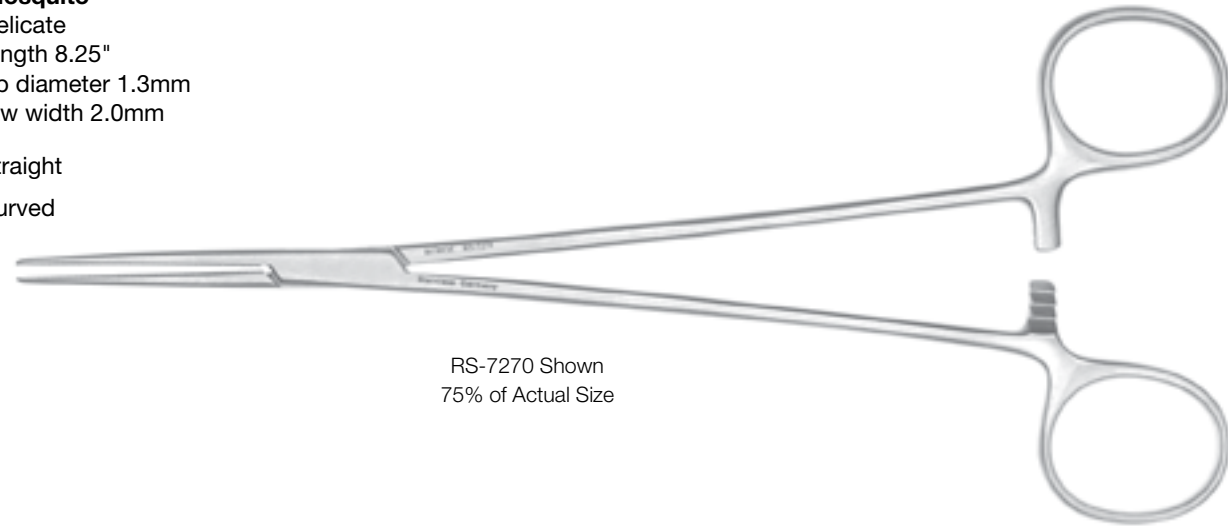
Mosquito
delicate
length 8.25"
tip diameter 1.3mm
jaw width 2.0mm

RS-7270

straight

RS-7271

curved



RS-7270 Shown
75% of Actual Size

RS-7291

MIXTER
curved, extra delicate
length 5.5"
tip diameter 1.1mm
jaw width 1.8mm



RS-7293

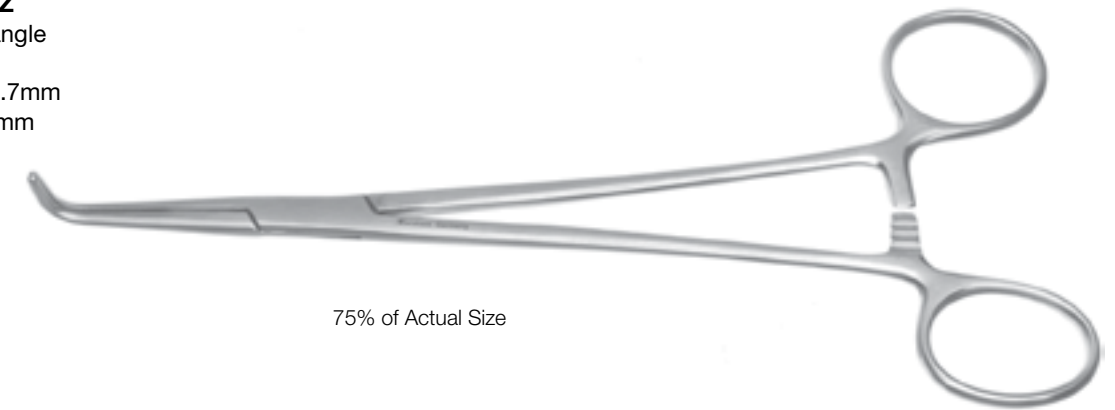
MIXTER
full curve
length 6.25"
diameter 2.5mm
jaw width 3.2mm



RS-7293 Shown

RS-7305

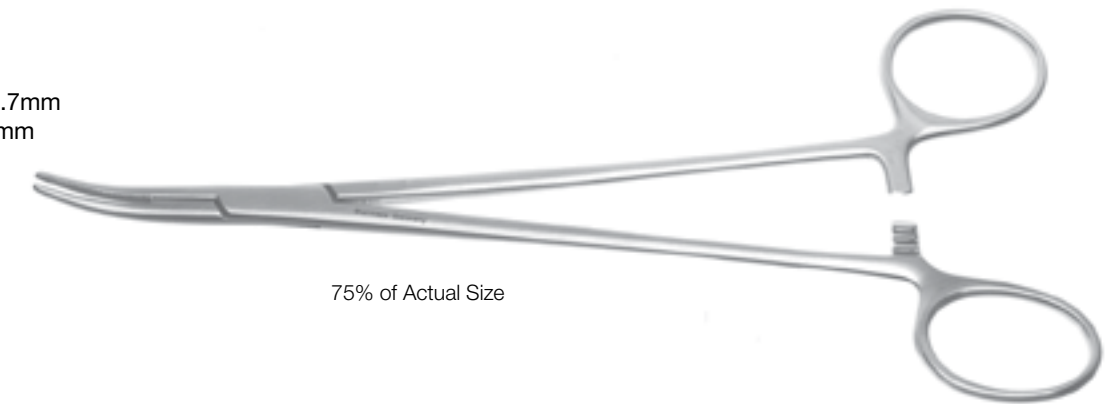
KANTROWITZ
delicate, 90° angle
length 7.5"
tip diameter 1.7mm
jaw width 2.3mm



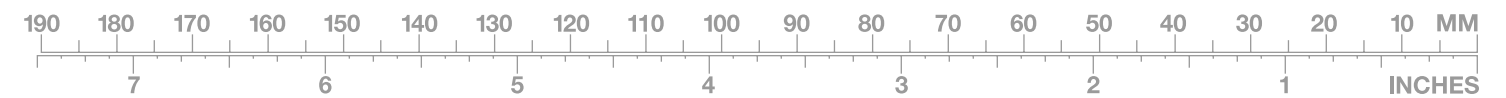
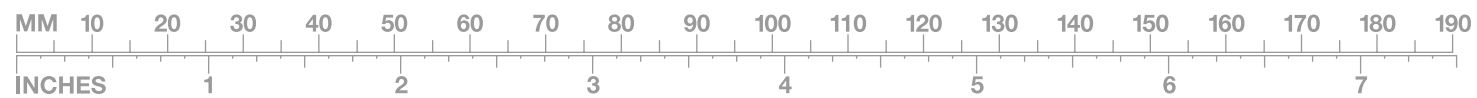
75% of Actual Size

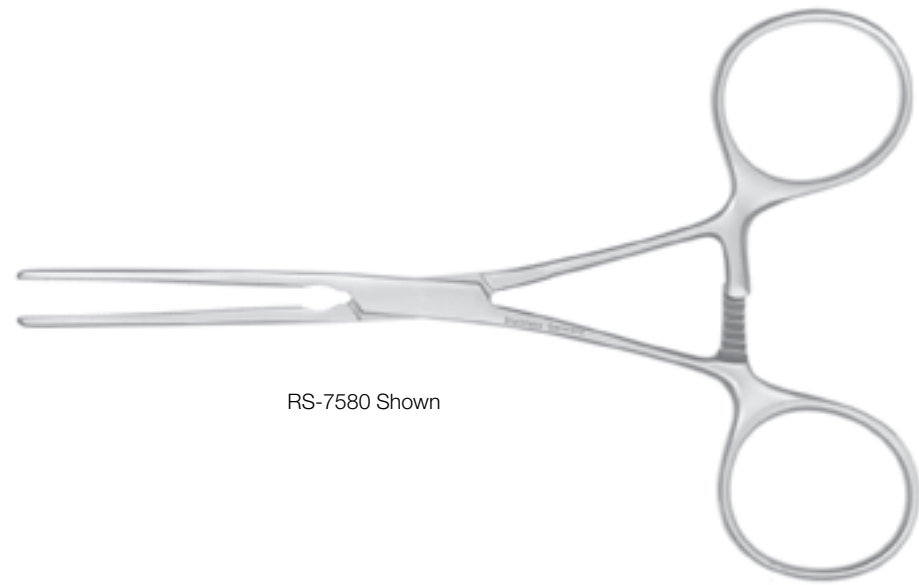
RS-7341

SCHNIDT
slight curve
length 7.5"
tip diameter 1.7mm
jaw width 2.3mm



75% of Actual Size



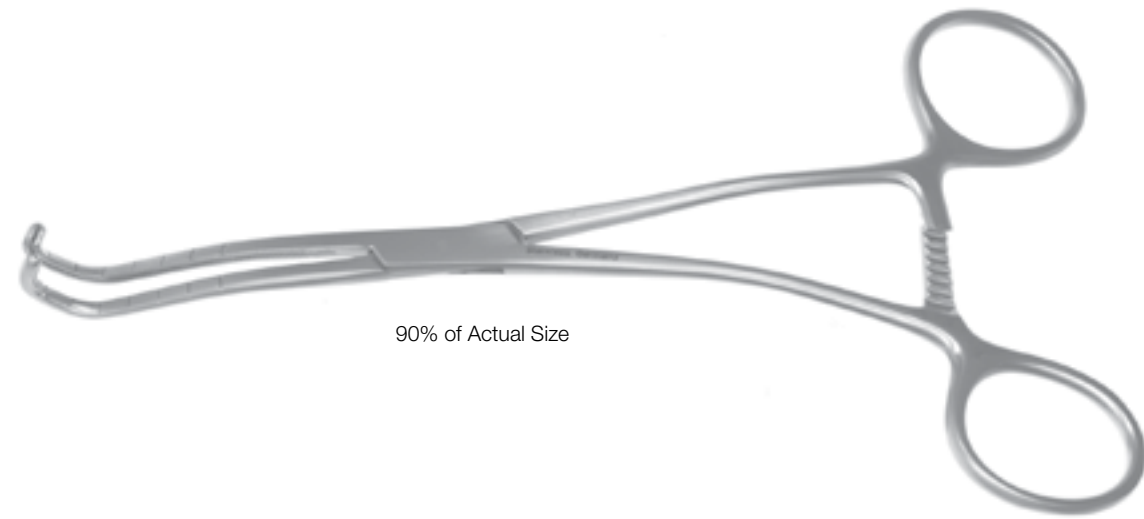


RS-7580 Shown

RS-7580
RS-7581

DeBAKEY
bulldog clamps
ring handle
length 4.75"
tip diameter 1.7mm
jaw width 2.0mm

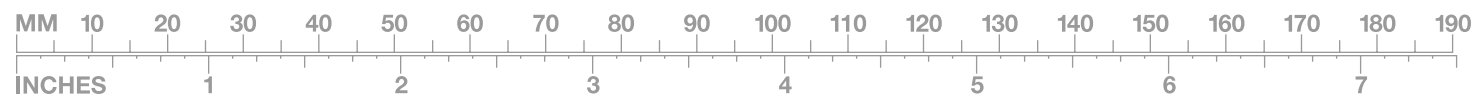
straight
curved



90% of Actual Size

RS-7660

COOLEY-DERRA
anastomosis clamp
5mm calibrations
on jaws
length 6.25"
small clamp
jaw width 2.6mm



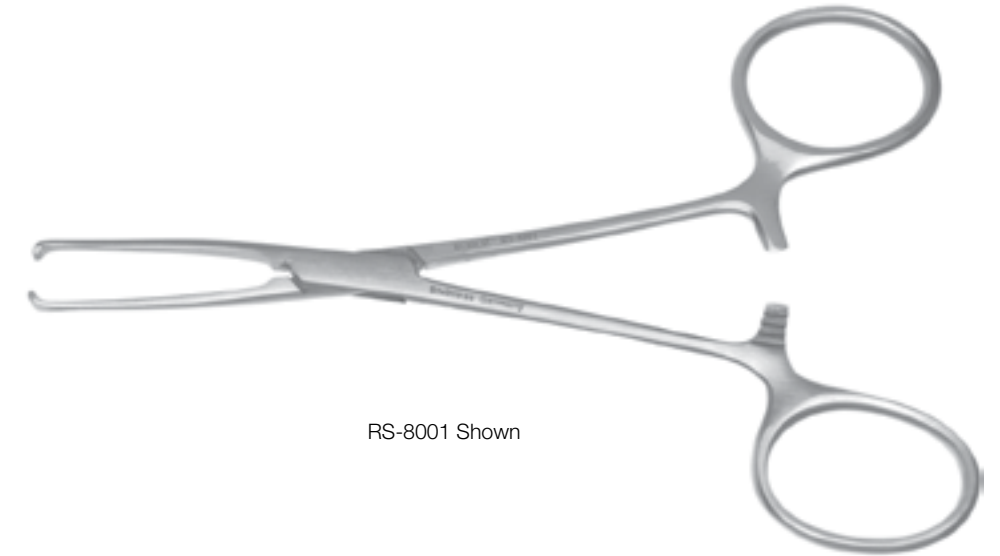
ALLIS
4 x 5 teeth, delicate

jaw width 4mm
length 5.5"

jaw width 3mm
length 5"

RS-8000

RS-8001



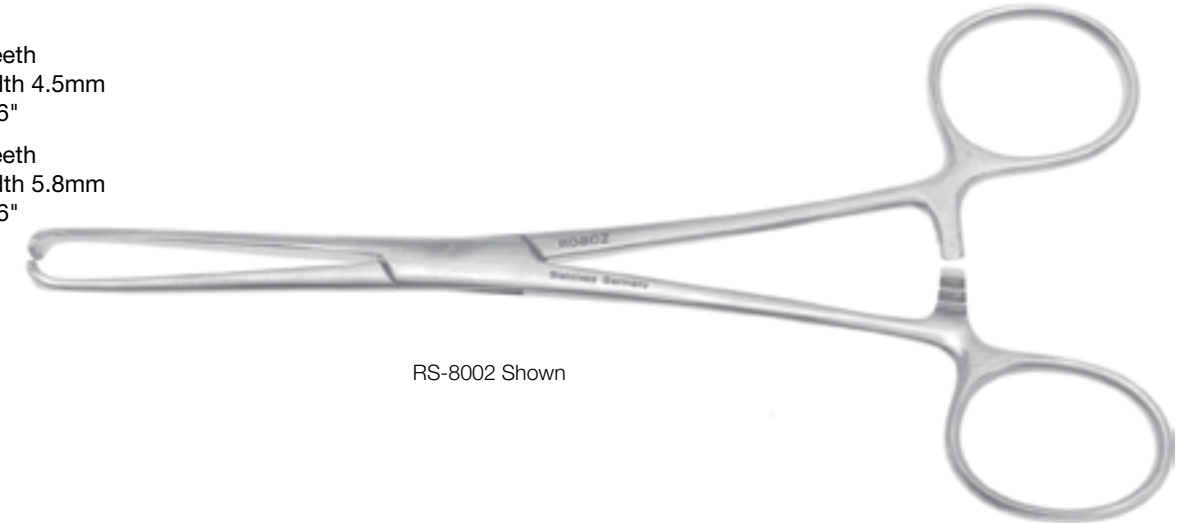
RS-8001 Shown

ALLIS
4 x 5 teeth
jaw width 4.5mm
length 6"

5 x 6 teeth
jaw width 5.8mm
length 6"

RS-8002

RS-8004



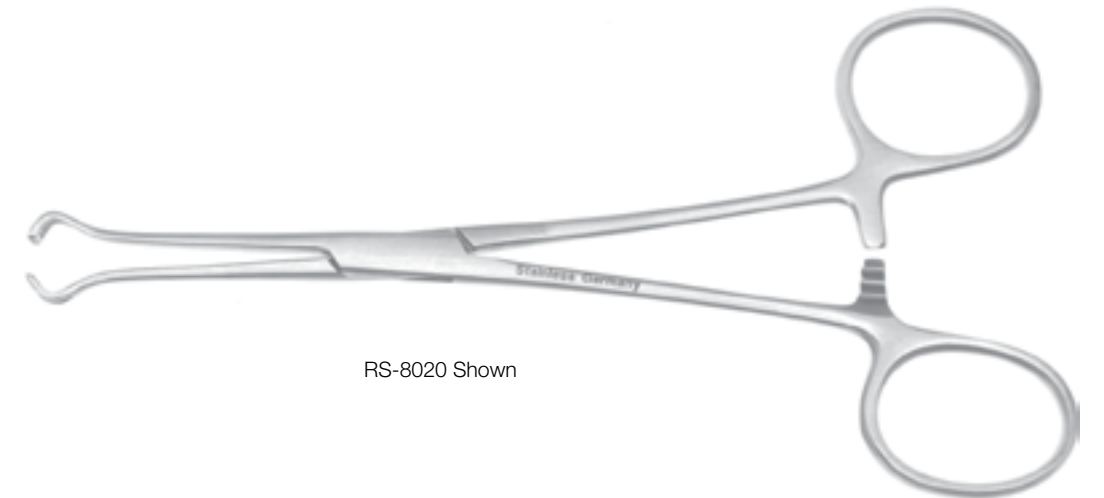
RS-8002 Shown

BABCOCK
jaw width 6mm
length 5.5"

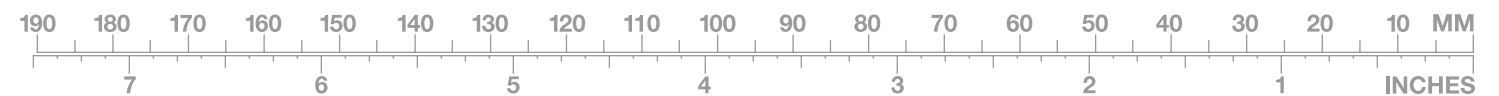
jaw width 9mm
length 6.25"

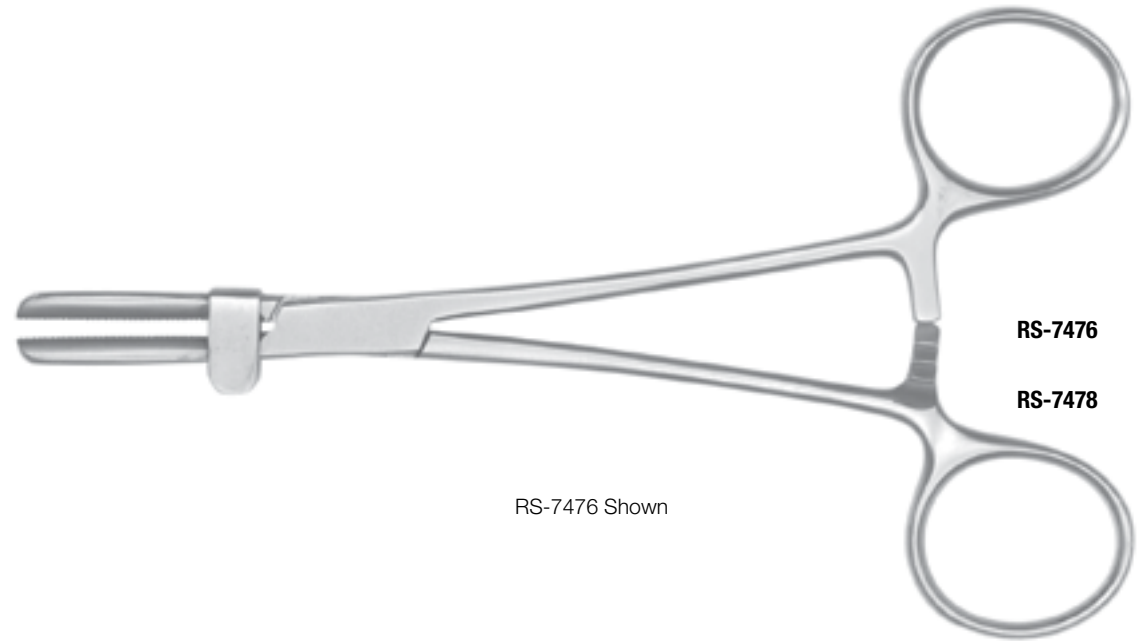
RS-8020

RS-8022



RS-8020 Shown





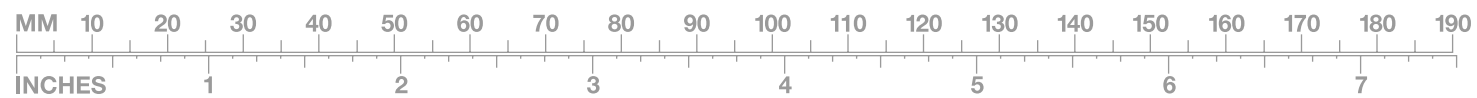
RS-7476 Shown

RS-7476

RS-7478

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

length 5.75"
jaw width 4mm
length 7.5"
jaw width 5.5mm



**Tube Occluding
Forceps**
smooth jaws, straight

65-7480

65-7490

length 4.5"
length 7"



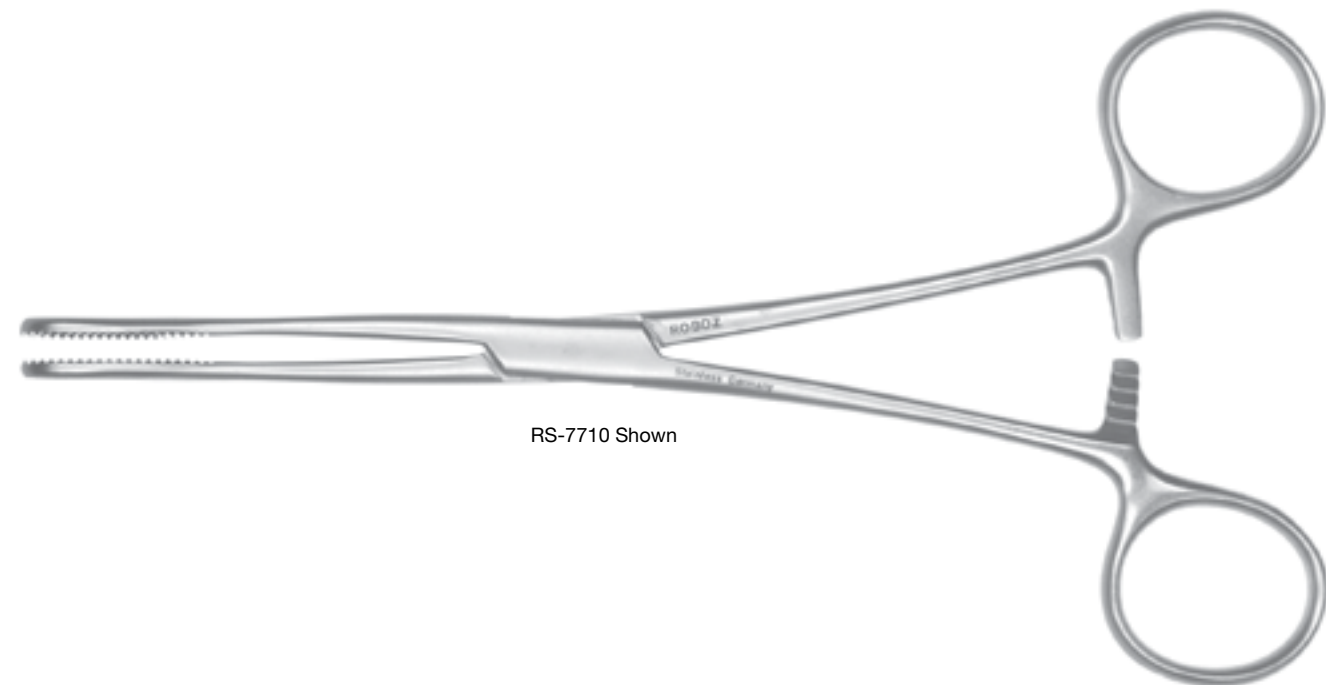
65-7480 Shown

FOERSTER
sponge forceps

RS-7710

RS-7720

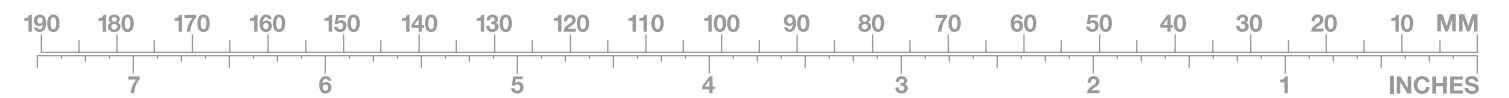
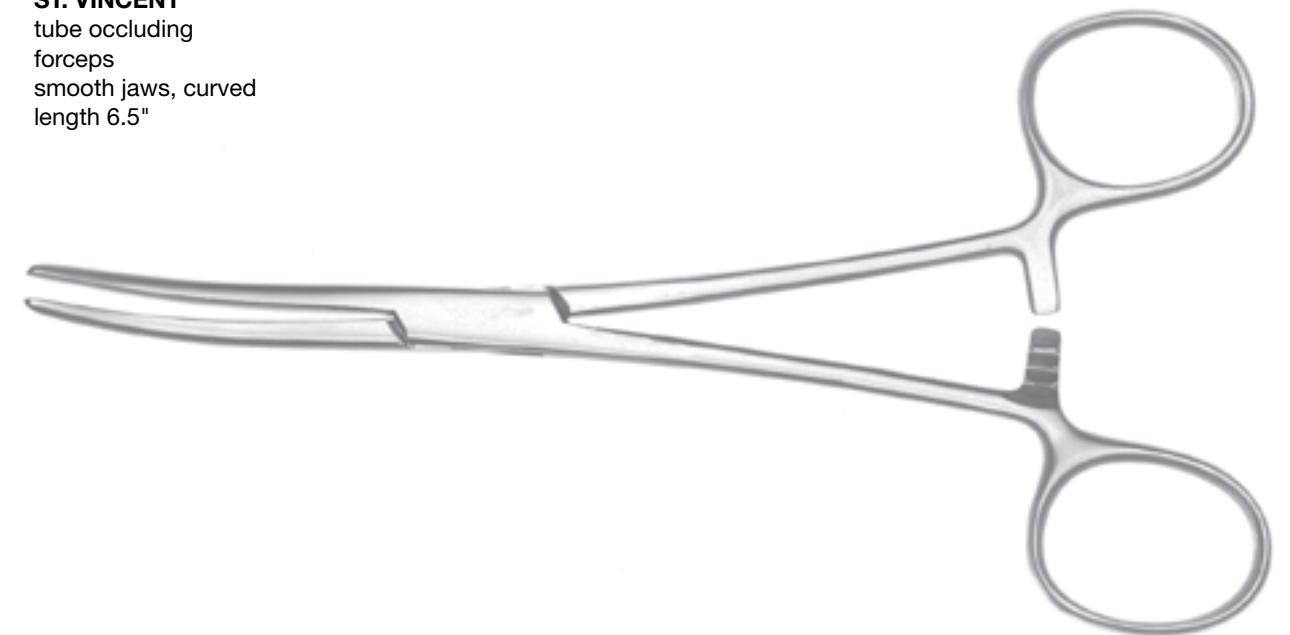
straight,
serrated jaws
length 7"
jaw width 11.5mm
straight, serrated jaws
length 9.5"
jaw width 14.5mm



RS-7710 Shown

65-7487

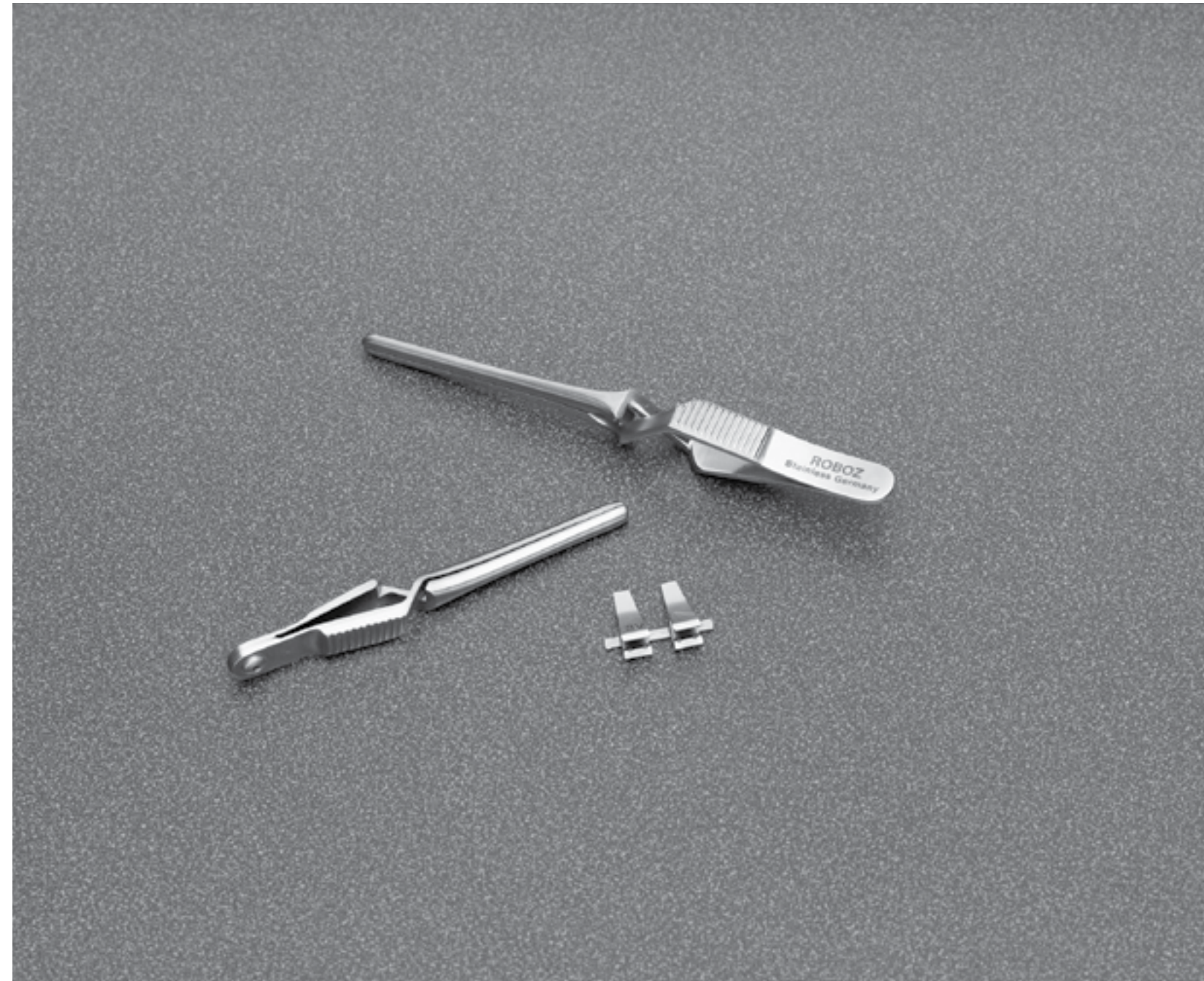
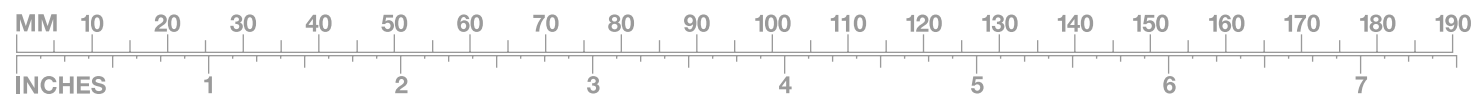
ST. VINCENT
tube occluding
forceps
smooth jaws, curved
length 6.5"



Clips and Clamps

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				



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



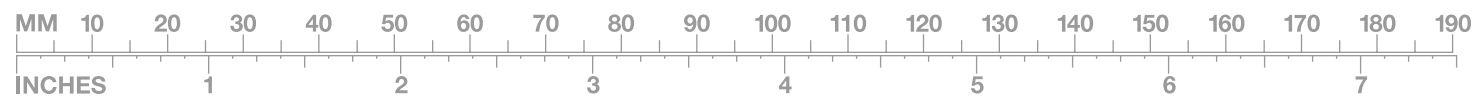
RS-5433 **Micro Clip**
 strong curve
 50-110gr pressure
 clip width 1mm
 jaw length 6mm



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 5.5"



RS-5440 **Micro Clip**
 applying forceps
 with lock
 length 5.75"



RS-5480 **Micro Clip**
 applying forceps
 with lock
 length 5.75"
 use with RS-5481T, RS-5482T



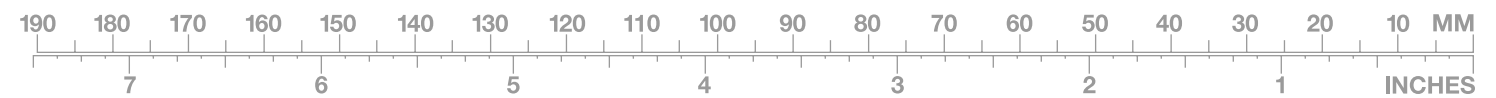
RS-5481T **Micro Clip**
 straight
 50-110gr pressure
 clip width 0.5mm
 jaw length 5mm
 Material: Titanium

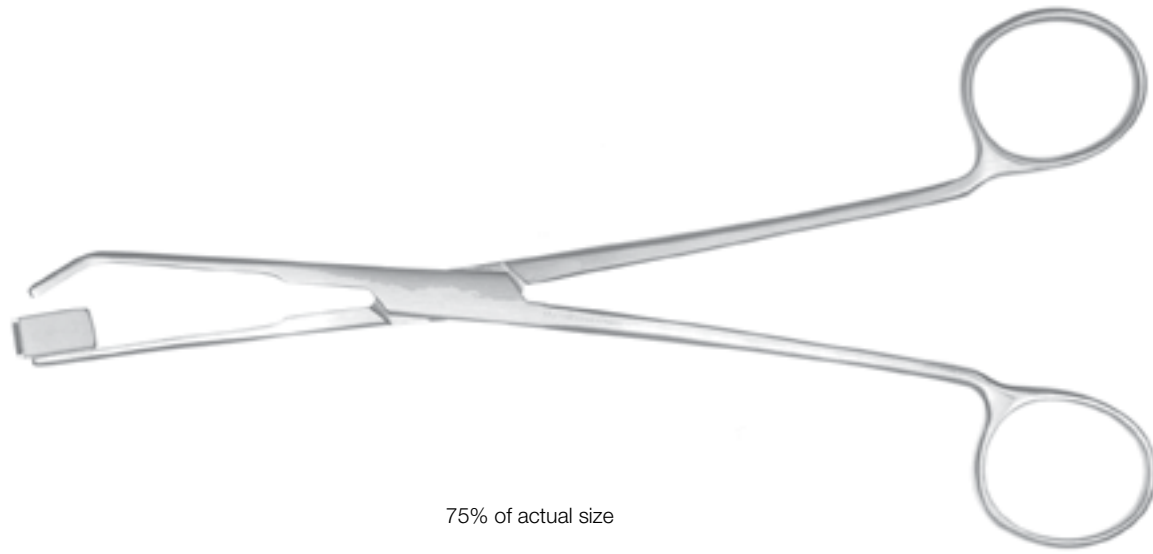


RS-5482T **Micro Clip**
 curved
 50-110gr pressure
 clip width 0.5mm
 jaw length 5mm
 Material: Titanium



Clips and Clamps not intended for clinical use.





75% of actual size

RS-5450

SCHWARTZ
clip applying forceps
for temporary clips
length 8"

RS-5452



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

RS-5457



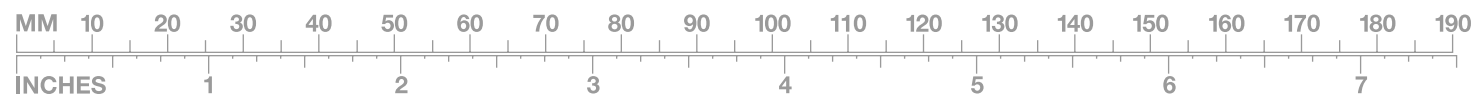
SCHWARTZ
temporary clip
slight angle, smooth
200-240gr pressure
jaw width 1.7mm
jaw length 8mm
clip length 1"

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

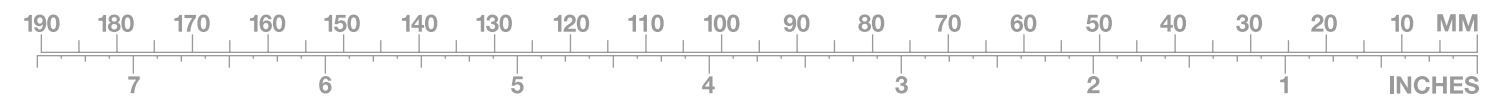


RS-6496

Micro Clip Setting
forceps
length 4.75"



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"



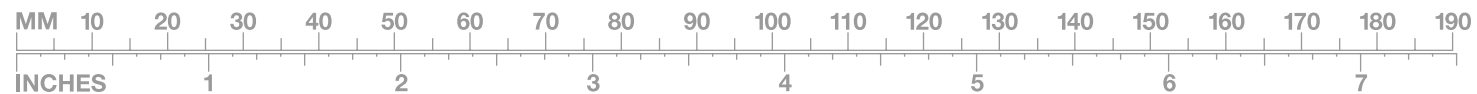
RS-5471 **DIEFFENBACH**
 serrefine
 curved, very delicate
 200-240gr pressure
 length 1"



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 1.5"



RS-7440 shown

RS-7440 with rivet
RS-7440-35 without rivet

JOHNS HOPKINS
 bulldog clamp
 curved
 500-900gr pressure
 length 1.5"



RS-7441 shown

RS-7441 with rivet
RS-7441-35 without rivet

JOHNS HOPKINS
 bulldog clamp
 straight
 500-900gr pressure
 length 2"



RS-7442 shown

RS-7442 with rivet
RS-7442-50 without rivet

JOHNS HOPKINS
 bulldog clamp
 curved
 500-900gr pressure
 length 2"



RS-7443 shown

RS-7443 with rivet
RS-7443-50 without rivet

JOHNS HOPKINS
 bulldog clamp
 straight
 with rivet
 500-900gr pressure
 length 2.5"



RS-7444 with rivet
RS-7444-50 without rivet

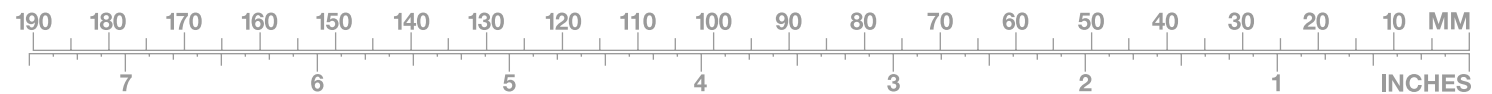
RS-7445 **JOHNS HOPKINS**
 bulldog clamp
 curved
 with rivet
 500-900gr pressure
 length 2.5"



RS-7446 **JOHNS HOPKINS**
 bulldog clamp
 straight
 with rivet
 500-900gr pressure
 length 3"



RS-7447 **JOHNS HOPKINS**
 bulldog clamp
 curved
 with rivet
 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



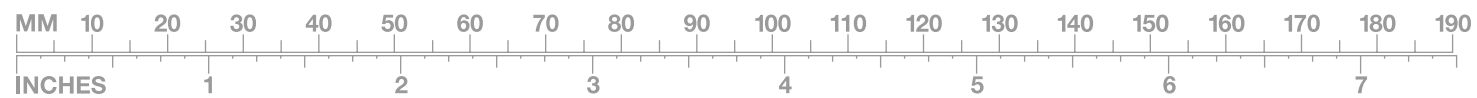
RS-7530

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 2.25"



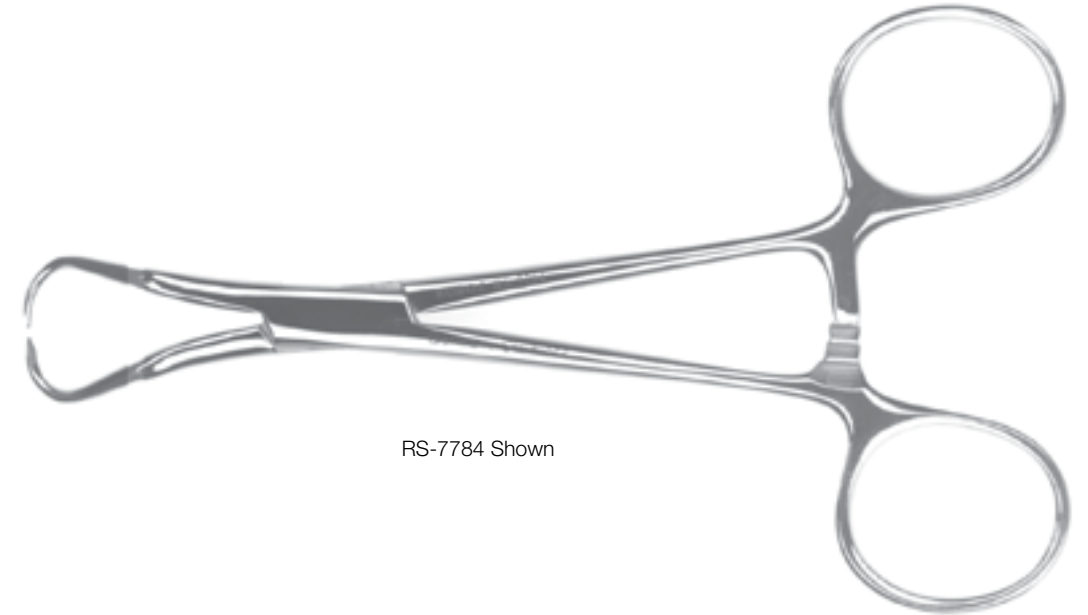
RS-7780

BACKHAUS
towel clamp

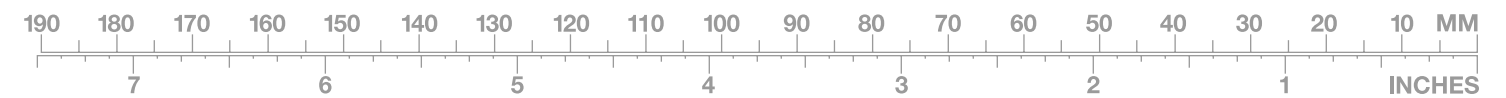
length 3.5"

RS-7784

length 5.25"

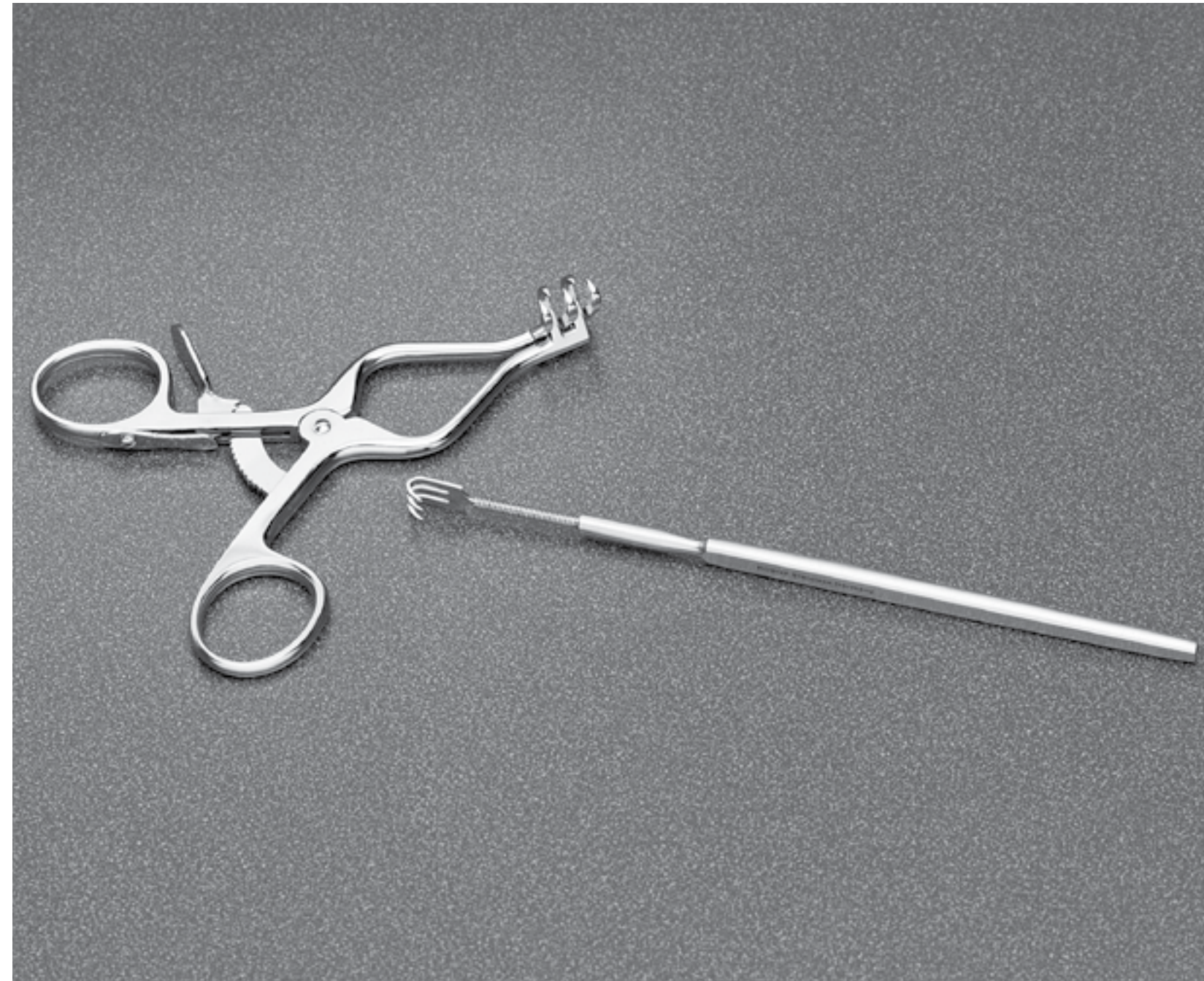
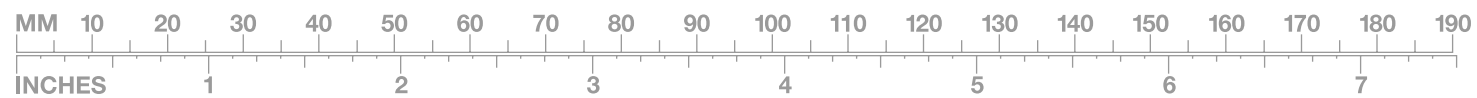


RS-7784 Shown



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				





RS-6504 **PARSONNET**
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"



RS-6500 **AGRICOLA**
3 x 3 prongs
depth 4mm
spread 25mm
length 1.5"
RS-6501 sharp
blunt



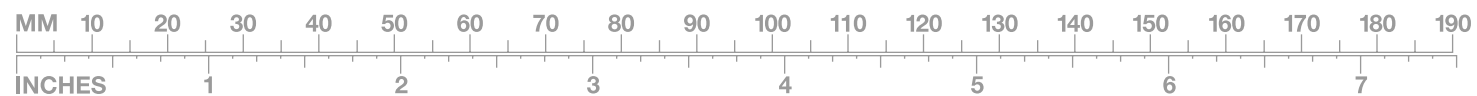
95% of actual size

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 2.75"
RS-6511 blunt
sharp
depth 5mm
spread 65mm
length 4"
RS-6514 blunt
RS-6515 sharp



CROSS ACTION RETRACTOR

with ratchet
4x4 prongs
depth 5mm
spread 25mm
length 4"

angled

RS-6521 blunt
RS-6523 sharp

straight

RS-6524 blunt
RS-6520 sharp



RS-6521 Shown

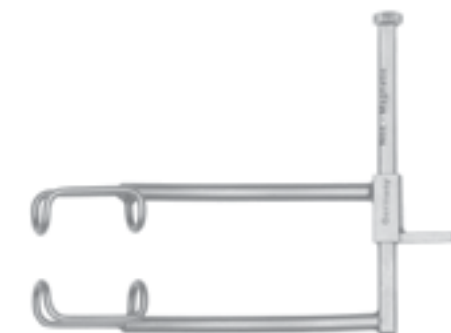
RS-6540

BARRAQUER
wire blades
depth 5 mm
spread 20mm
blade width 12mm
length 1.75"



RS-6550

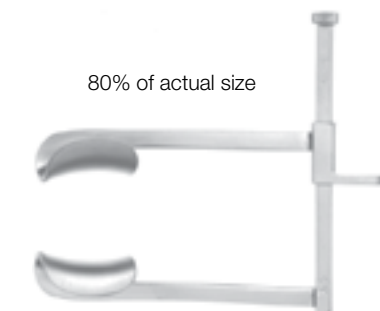
MURDOCK
non-magnetic, chrome
depth 5mm
spread 34mm
blade width 15mm
length 2.25"



RS-6560

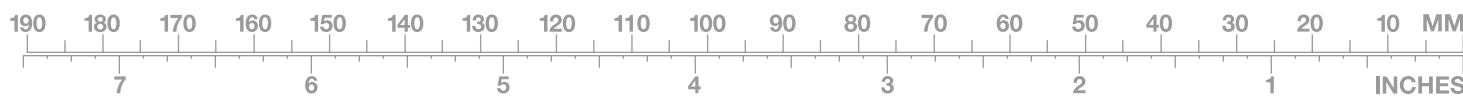
McKINNEY RETRACTOR
depth 6mm
spread 50mm
blade width 15mm
length 2.5"

80% of actual size



RS-6561

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

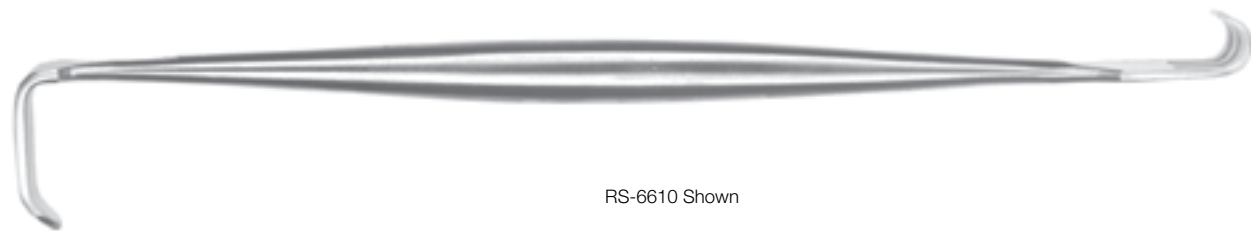




RS-6570 **CASTROVIEJO**
 non-magnetic
 spread 35mm
 blade width 15mm
 blade depth 5mm
 length 3.75"

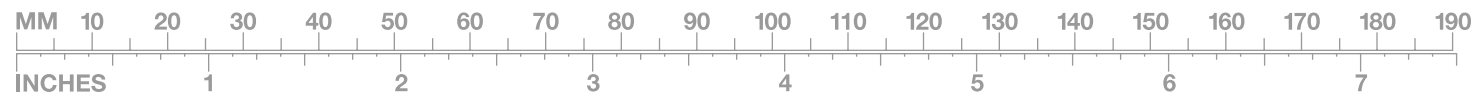


RS-6585 **DAVIS**
 3 x 3 blunt prongs
 spread 63mm
 depth 11mm
 length 4.5"



RS-6610 **SENN**
 double end
 length 6.5"
RS-6612 3 sharp prongs
 3 blunt prongs

RS-6610 Shown



RS-6614 **RAGNELL**
 double end
 3mm x 8mm
 5mm x 15mm
 length 6"



RS-6628 **Rake retractor**
 rigid shaft
 length 6.5"
 2 prongs, blunt
 blade width 7mm
 depth 7mm



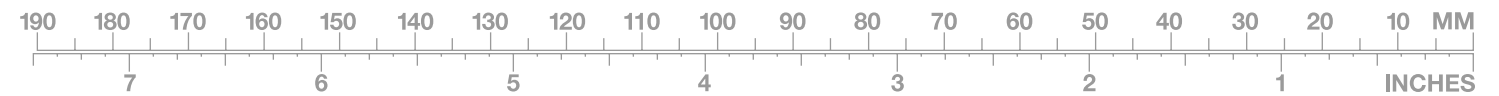
RS-6630 **Rake retractor**
 rigid shaft
 length 6.5"
 3 prongs, blunt
 blade width 8mm
 depth 5mm

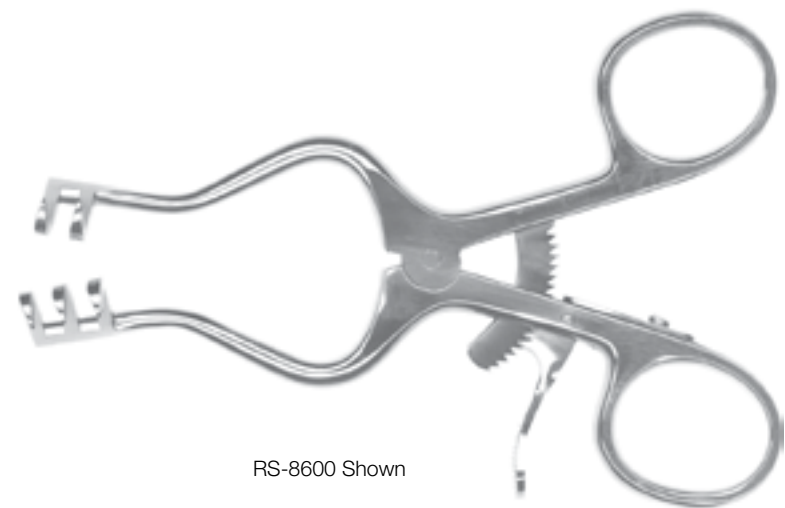


RS-6156 **McGANNON**
 micro dissecting retractor
 2.5mm wide
 length 5"



RS-6670 **DESMARRES**
 length 5.5"
RS-6672 blade width 11mm
 blade width 13mm



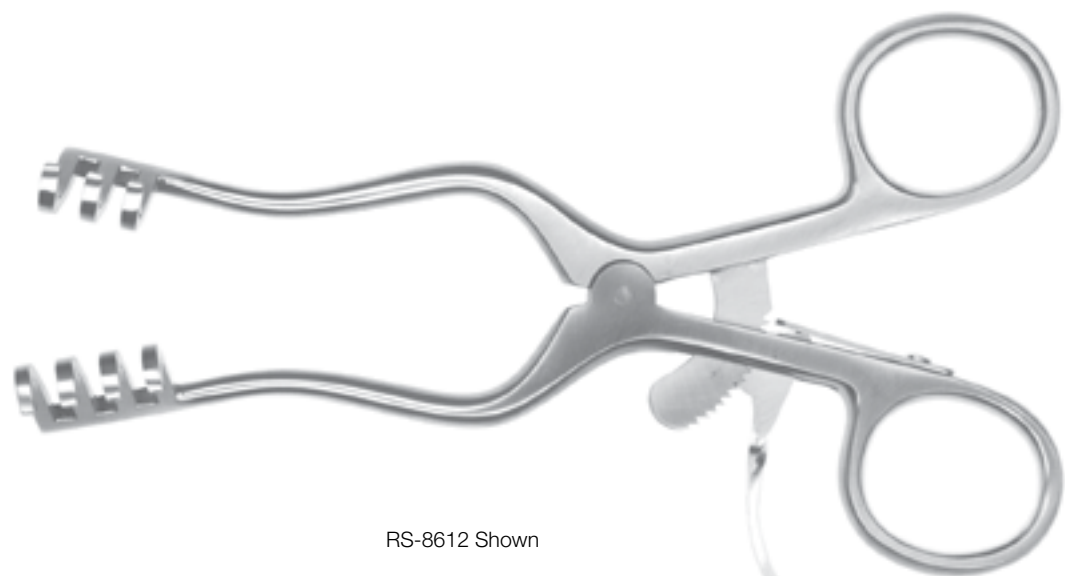


RS-8600 Shown

RS-8600
RS-8602

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

sharp
blunt



RS-8612 Shown

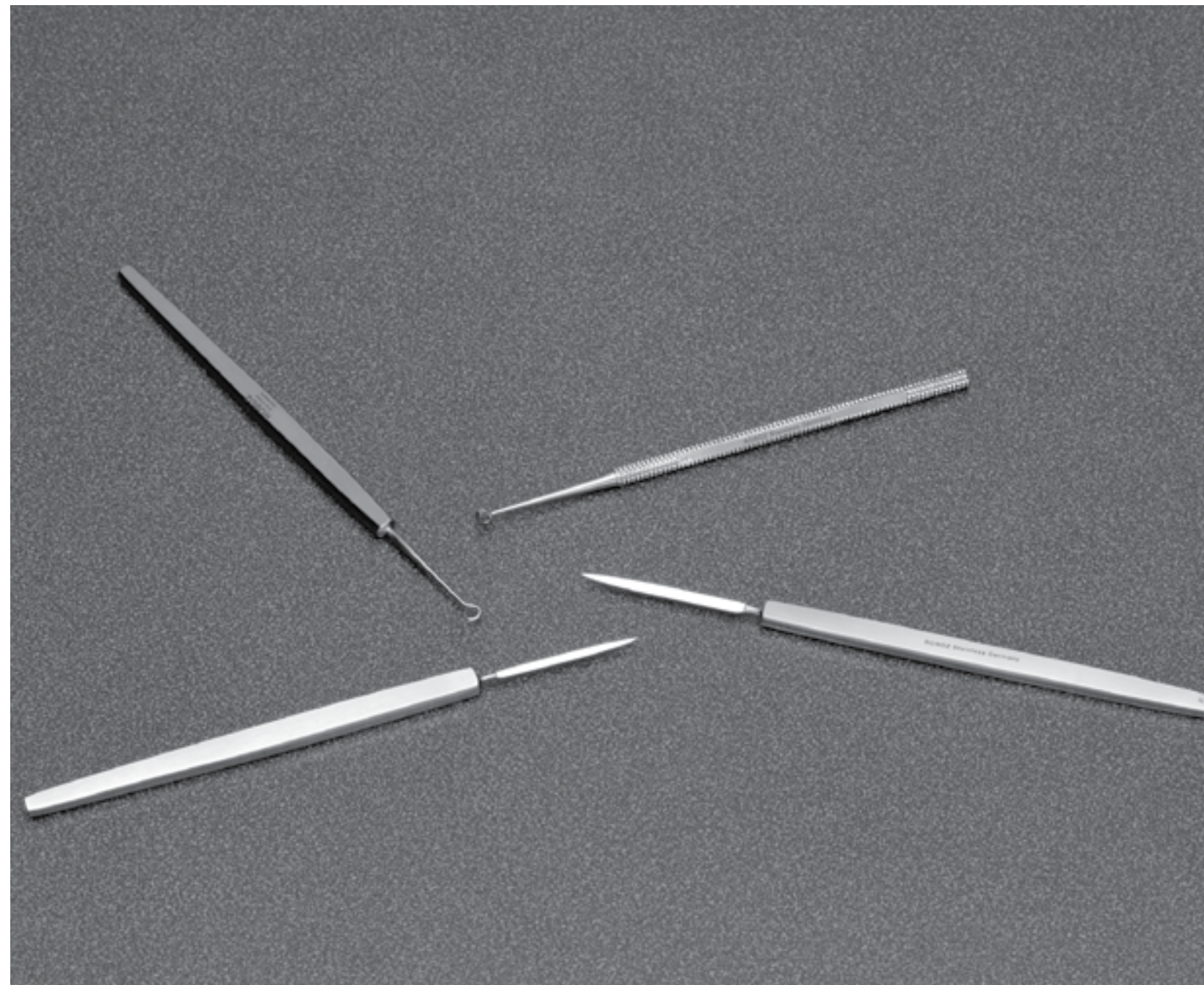
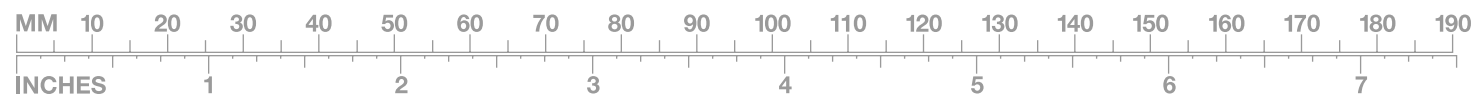
RS-8612
RS-8614
RS-8616

WEITLANER
3 x 4 prongs, blunt

spread 44mm
depth 15mm
length 5.5"

spread 88mm
depth 17mm
length 6.5"

spread 120mm
depth 19mm
length 8"



Micro Dissecting Needle Holders



For use with tungsten and micro dissecting needles only

RS-6060 light weight, solid aluminum handle nickel plated chuck Length 5.25"



For use with tungsten and micro dissecting needles or insect pins

RS-6061 light weight, hollow stainless steel length 4.75"



For use with tungsten and micro dissecting needles or insect pins

RS-6062 light weight, hollow nickel plated length 4"

Sharp Point Tungsten Needles



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

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

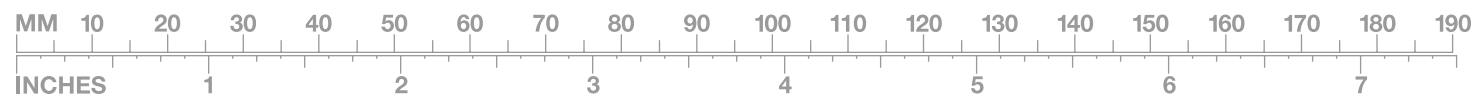
	Quantity	Rod diameter mm	Tip size µm	Length
RS-6063	10	0.125	1	2"
RS-6064	10	0.25	1	2"
RS-6065	10	0.5	1	2"

Strong Point Micro Dissecting Needles



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

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



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.

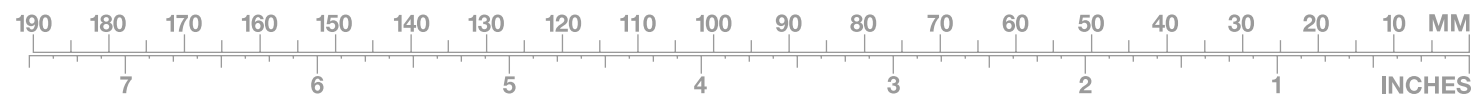
	Quantity	Size	Rod diameter mm	Tip size µm	Length
RS-6082-25	100	"000"	0.25	30	38 mm
RS-6082-30	100	"00"	0.3	30	38 mm
RS-6082-35	100	"0"	0.35	30	38 mm
RS-6082-40	100	1	0.4	30	38 mm
RS-6082-45	100	2	0.45	30	38 mm
RS-6082-50	100	3	0.5	30	38 mm
RS-6082-55	100	4	0.55	30	38 mm
RS-6082-60	100	5	0.6	30	38 mm
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 4.5"



RS-6120 **Micro Dissecting Knife**
1mm cutting edge
shaft length 1.5"



RS-6122 **Micro Dissecting Knife**
1.5mm cutting edge
shaft length 1.5"



RS-6125 **Micro Dissecting Knife**
spear point
1.5mm cutting edge
shaft length 1.5"



RS-6130 **Micro Dissecting Needle**
straight, sharp
0.3mm tip
shaft length 1.5"



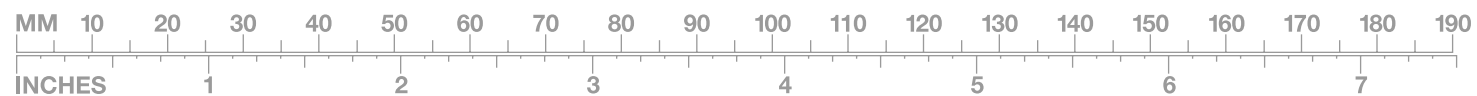
RS-6135 **Micro Dissecting Needle**
90° angle, sharp
0.3mm tip
shaft length 1.5"



RS-6140 **Micro Dissecting Hook**
sharp tip
loop diameter 0.5mm
shaft length 1.5"



RS-6142 **Micro Dissecting Hook**
blunt tip
loop diameter 0.5mm
shaft length 1.5"



Micro Probe
6.25" length
straight



Not Actual Size

RS-9400 0.04mm tip width
RS-9420 0.025mm tip width

Micro Probe
6.25" length
25° angle



Not Actual Size

RS-9401-10 1mm tip length
0.04mm tip width
RS-9401-06 0.6mm tip length
0.04mm tip width
RS-9401-03 0.3mm tip length
0.04mm tip width

Micro Probe
6.25" length
45° angle



Not Actual Size

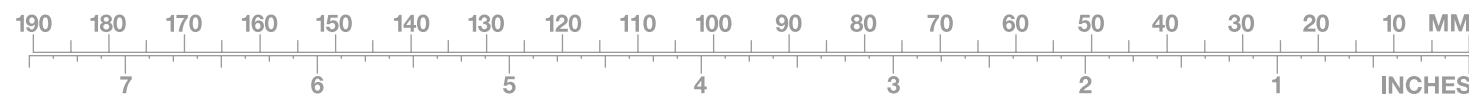
RS-9402-10 1mm tip length
0.04mm tip width
RS-9402-06 0.6mm tip length
0.04mm tip width
RS-9421-06 0.6mm tip length
0.025mm tip width
RS-9402-03 0.3mm tip length
0.04mm tip width
RS-9421-03 0.3mm tip length
0.025mm tip width

Micro Probe
6.25" length
90° angle



Not Actual Size

RS-9403-10 1mm tip length
0.04mm tip width
RS-9403-06 0.6mm tip length
0.04mm tip width
RS-9422-06 0.6mm tip length
0.025mm tip width
RS-9403-03 0.3mm tip length
0.04mm tip width
RS-9422-03 0.3mm tip length
0.025mm tip width





Not Actual Size

RS-9404-10

Micro Hook
6.25" length
0.04mm tip width
1mm hook diameter

RS-9404-05

0.5mm hook diameter



RS-6170

TYRELL
micro dissecting hook
1mm loop diameter
length 5"

RS-6172

sharp
blunt



RS-6180

FRAZIER
micro dissecting hook
2mm loop diameter
length 5"

RS-6182

sharp
blunt

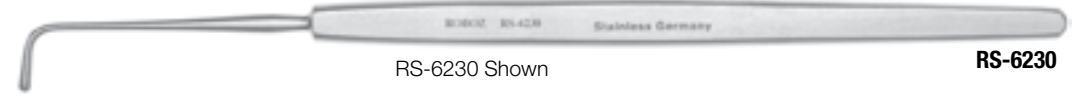


RS-6190

Dura Twist Hook
sharp points
twist right only
length 4.25"

RS-6198

NUGENT
micro dissecting hook
angular, sharp
length 5"



RS-6230 Shown

RS-6230

VON GRAEFE
micro dissecting hook
length 5.5"
hook length 8mm



Not Actual Size

37-5950

Chung Hook,
20mm length,
3mm hook



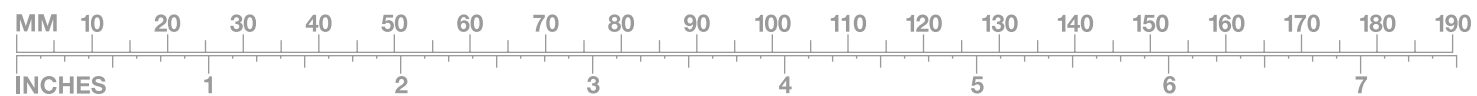
RS-9410

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



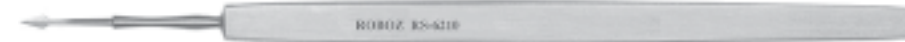
RS-9411

SCHUKNECHT
rotating disk knife
3mm disk diameter
disk perpendicular
to handle



RS-6210

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



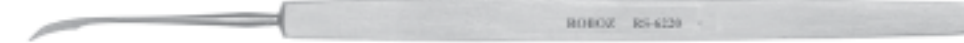
RS-6215

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



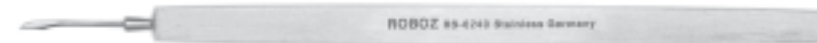
RS-6220

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



RS-6240

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



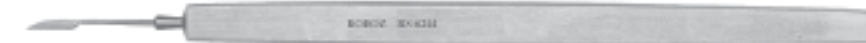
RS-6242

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



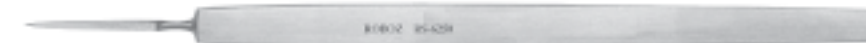
RS-6244

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



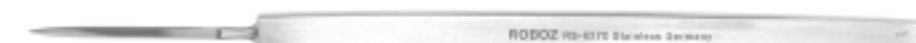
RS-6250

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



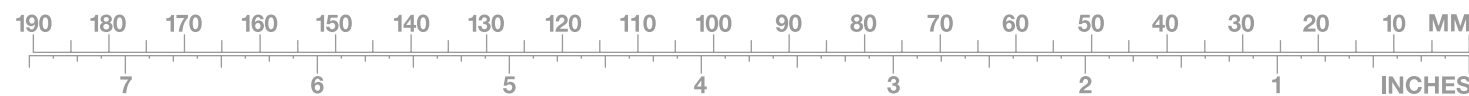
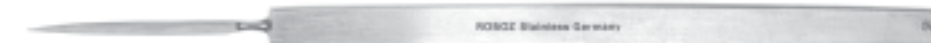
RS-6270

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	IN-930-2020G IN-930-2222G	WESCOTT biopsy needle disposable pack of 10 3.5" length
 Not Actual Size	RS-6340-10 RS-6340-14	Biopsy Needle with stylet stainless steel 1.0mm x 70mm 1.4mm x 70mm
 Please specify size when ordering	RS-6330-2 RS-6330-3 RS-6330-4 RS-6330-6 RS-6330-8	KEYES tissue punch length 4" sizes: 2mm 3mm 4mm 6mm 8mm
	RS-6350	HEATH micro dissecting curette 0.5mm diameter one side sharp one side blunt length 4"

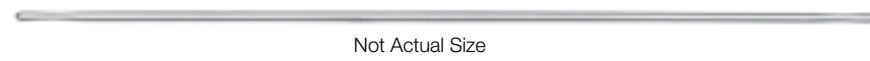


RS-6352	HEATH micro dissecting curette 1mm diameter one side sharp one side blunt length 4"	
RS-6354	HEATH micro dissecting curette 2mm diameter one side sharp one side blunt length 4"	
RS-6380	MEYER-HOFFER micro dissecting curette 1mm cup diameter length 5"	
RS-6382	MEYER-HOFFER micro dissecting curette 1.5mm cup diameter length 5"	
RS-9040 RS-9052	SPRATT length 6.5" oval, size 5/0 oval, size 2/0	 RS-9040 Shown 5/0 2/0
RS-6161 RS-6160 RS-6162	MINI SPOON length 5.25" solid, 8mm diameter perforated, 8mm diameter perforated, 15mm diameter	





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



Not Actual Size

Sterling Probe
double ended, malleable
2mm tips



Not Actual Size

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

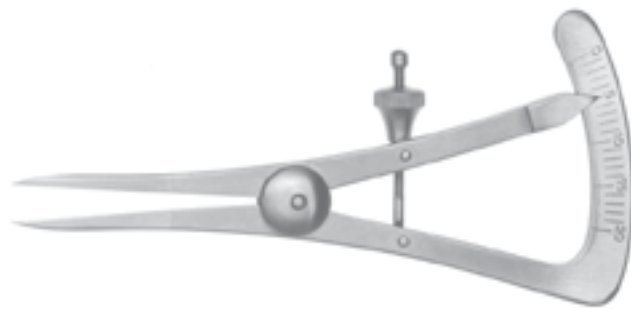
Sterling Probe
1.5mm tips
with eye



RS-9522 length 5.5"
RS-9528 length 7"



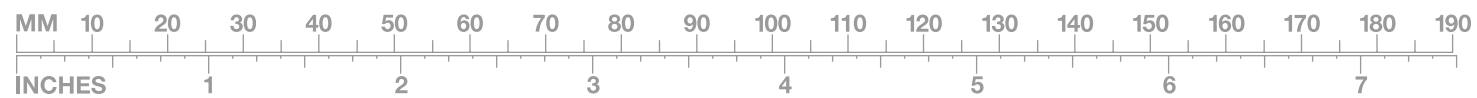
RS-9580 Probe and Blunt
Separator
one end semi-blunt
one end tapered and flat
length 6.25"



RS-6460 CASTROVIEJO
caliper
20mm scale
length 3.25"



RS-6466 JAMESON
caliper
80mm/3" scale
chrome plated
length 3.75"





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"



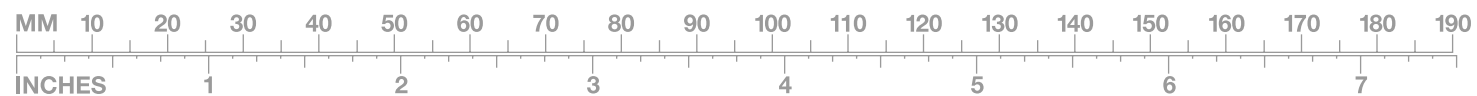
RS-5603 **McPHERSON-VANNAS**
 curved, sharp
 cutting edge 5mm
 tip width 0.1mm
 overall length 3"



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"



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



RS-5630 stainless steel

RS-5630T titanium

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
 tip width 0.05mm

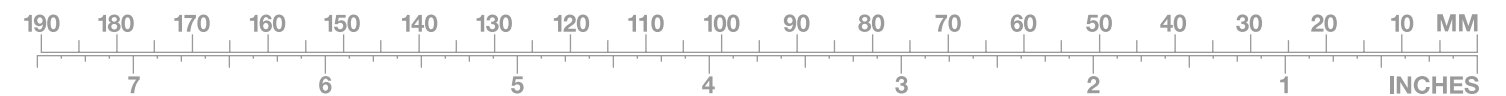
RS-5641 curved
 tip width 0.05mm

RS-5608 straight
 tip width 0.15mm

RS-5609 curved
 tip width 0.15mm



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

VANNAS
 cutting edge 3mm
 overall length 3.5"

RS-5620 straight, tip width 0.1mm

RS-5621 curved, tip width 0.1mm

RS-5610 straight, tip width 0.15mm

RS-5611 curved, tip width 0.15mm



RS-5650 Shown

CASTROVIEJO
 straight
 cutting edge 9mm
 tip width 0.15mm
 overall length 3.5"

RS-5650 standard, sharp

RS-5651 standard, blunt

RS-5650SC SURE CUT*, sharp



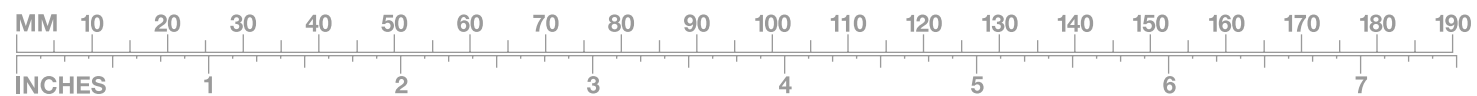
RS-5658 Shown

CASTROVIEJO
 angular, sharp
 cutting edge 9mm
 tip width 0.15mm
 overall length 3.5"

RS-5658 standard

RS-5658SC SURE CUT*

* See page 106 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 3.5"



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

RS-5668 **CASTROVIEJO**
 angular, blunt
 cutting edge 9mm
 tip width 0.15mm
 overall length 3.5"



RS-5671 **CASTROVIEJO**
 curved, sharp
 cutting edge 10mm
 tip width 0.15mm
 overall length 3.75"



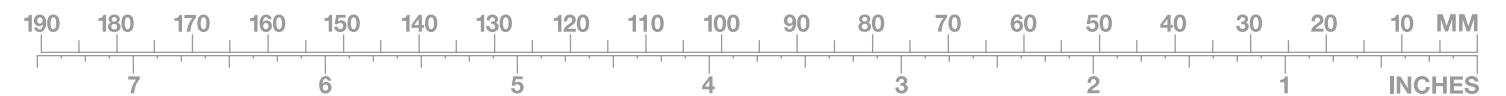
RS-5673 **CASTROVIEJO**
 curved, blunt
 cutting edge 10mm
 tip width 0.15mm
 overall length 3.5"



RS-5674 **NOYES**
 13mm blades
 curved on flat, blunt
 tip width 0.25mm
 overall length 4.5"



RS-5675 **NOYES**
 slightly curved, sharp
 cutting edge 13mm
 tip width 0.25mm
 overall length 4.5"





RS-5676 Shown

RS-5676

NOYES
straight, sharp
cutting edge 13mm
overall length 4.5"

standard
tip width 0.15mm

RS-5676SC

SURE CUT*



RS-5677

NOYES
straight, sharp-blunt
cutting edge 13mm
tip width 0.25mm
overall length 4.5"



RS-5678

NOYES
straight, blunt-blunt
cutting edge 13mm
tip width 0.25mm
overall length 4.5"



RS-5788

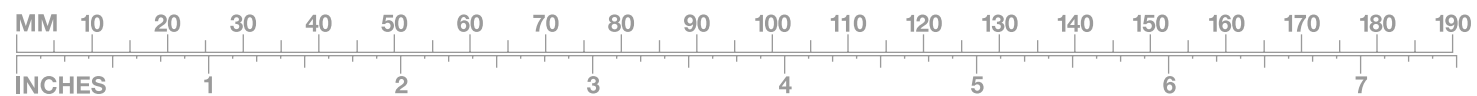
NOYES
angled on flat
12mm blades
tip width 0.2mm
length 4.75"



RS-5680

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

* See page 106 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 4.25"



RS-5805

Micro-Mini Pencil Handle Scissors
cutting edge 2.5mm
tip width 0.15mm
overall length 6"

RS-5806

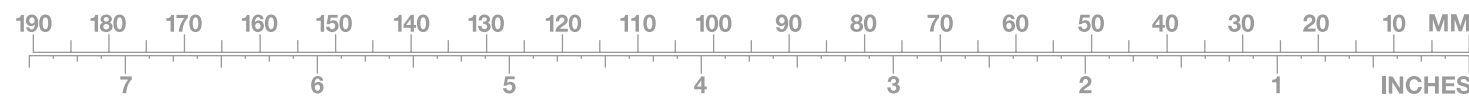
horizontal cutting

RS-5807

angled blades



RS-5805 Shown





RS-5830 Shown

RS-5830
RS-5831

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



RS-5880 Shown

RS-5880
RS-5881

Micro Dissecting
extra fine
very sharp points
0.4mm comb. tip width
20mm blades
length 3.5"
straight
curved

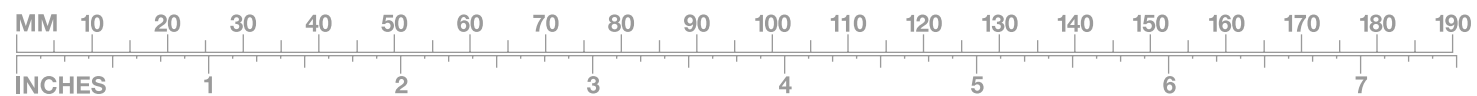


RS-5840 Shown

RS-5840
RS-5840SC
RS-5842
RS-5842SC
RS-5843
RS-5841

BONN
15mm blades
length 3.5"
straight, sharp
SURE CUT*
tungsten carbide*
tungsten carbide*,
SURE CUT*
ceramic coated*, tungsten
carbide*, SURE CUT*
curved, sharp

* See page 106 for details on Sure Cut, Tungsten Carbide, and Ceramic Coated scissors



Micro Dissecting
14mm blades
flat shanks & large rings
length 3.75"
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

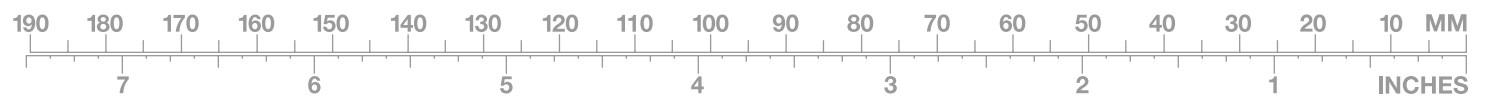


RS-5852 Shown

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"

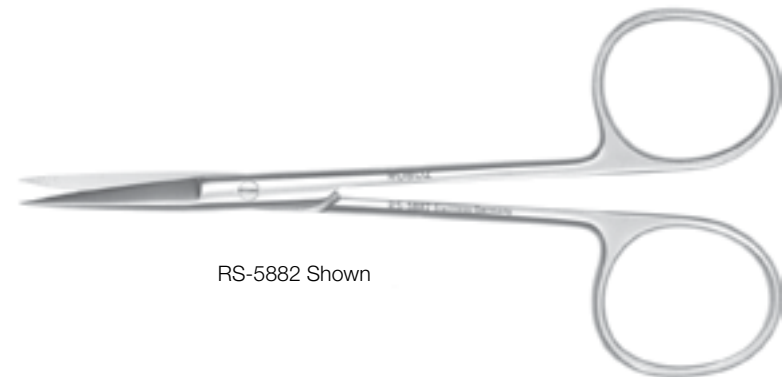




RS-5869 **BIRO**
 angled on flat
 sharp outside edges
 blade length 17mm
 length 4"



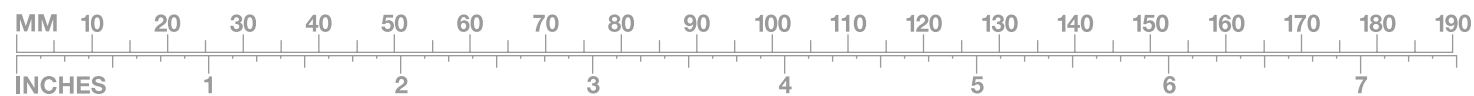
RS-5871 **GRADLE**
 slightly curved
 sharp points
 blade length 12mm
 length 4"



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 3.5"

straight, sharp

- RS-5910** standard
- RS-5910SC** SURE CUT*
- RS-5906** tungsten carbide*
- RS-5906SC** tungsten carbide*, SURE CUT*
- RS-5907** ceramic coated*, tungsten carbide*, SURE CUT*

curved, sharp

- RS-5911** standard
- RS-5911SC** SURE CUT*
- RS-5908** tungsten carbide*
- RS-5908SC** tungsten carbide*, SURE CUT*
- RS-5909** ceramic coated*, tungsten carbide*, SURE CUT*



RS-5910 Shown

Micro Dissecting
 straight, sharp
 blade length 24mm
 length 4.5"

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



RS-5912 Shown

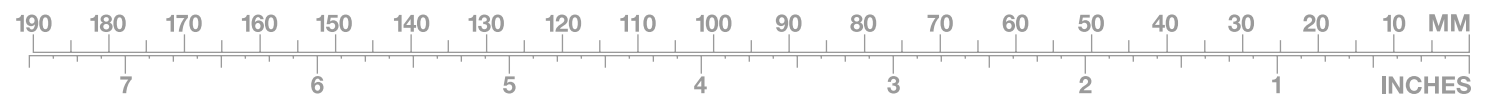
Micro Dissecting
 curved, sharp
 blade length 24mm
 length 4.5"

- 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 106 for details on Sure Cut, Tungsten Carbide, and Ceramic Coated scissors





RS-5918 **Micro Dissecting**
angled, sharp
blade length 25mm
length 4.5"



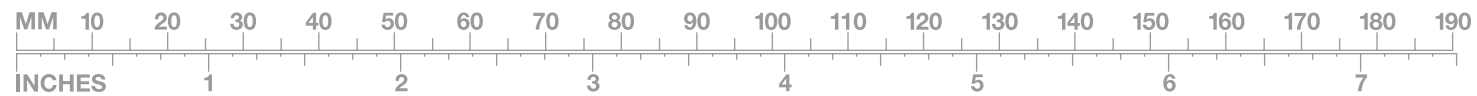
RS-5921 **Micro Dissecting**
curved on side, sharp
blade length 22mm
length 4.5"



RS-5925 **LA GRANGE**
double curve
sharp serrated
blade length 18mm
length 4.25"



RS-5928 **OBRIEN**
angular
blade length 14mm
length 3.75"

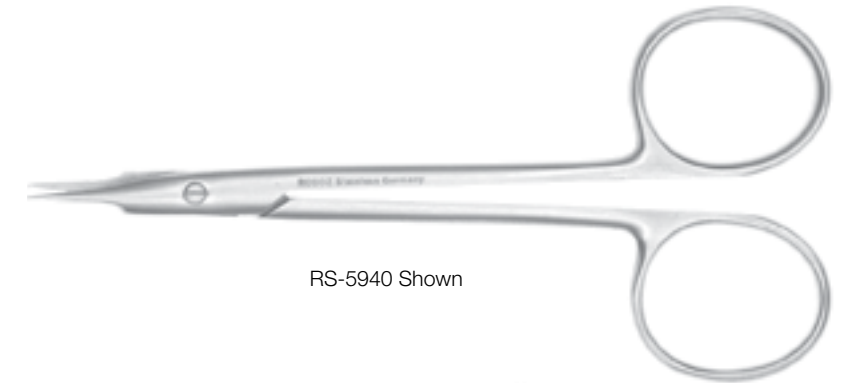


RS-5930 **McGUIRE**
curved on flat
blade length 15mm
length 4"



RS-5940 **STEVENS**
blade length 19mm
length 4.25"

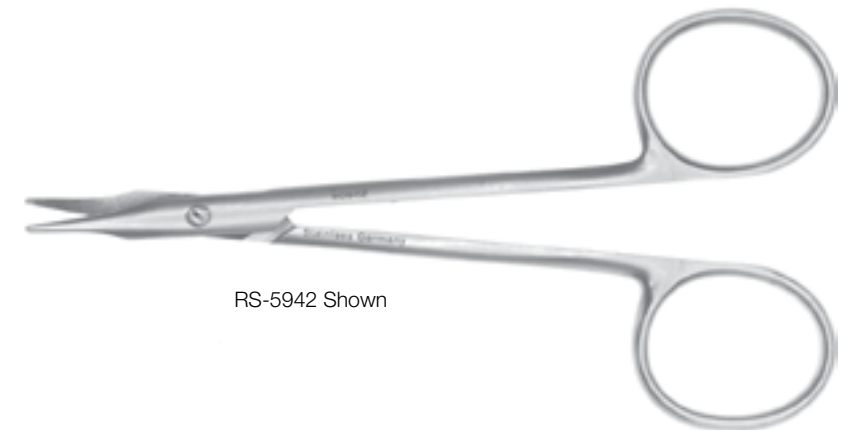
RS-5941
straight, sharp
curved, sharp



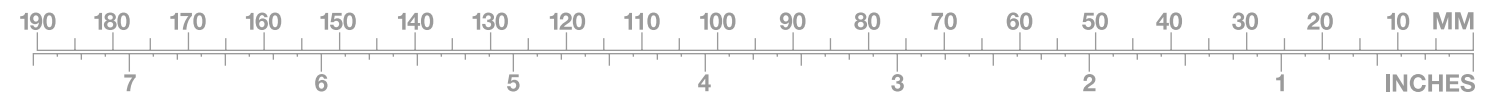
RS-5940 Shown

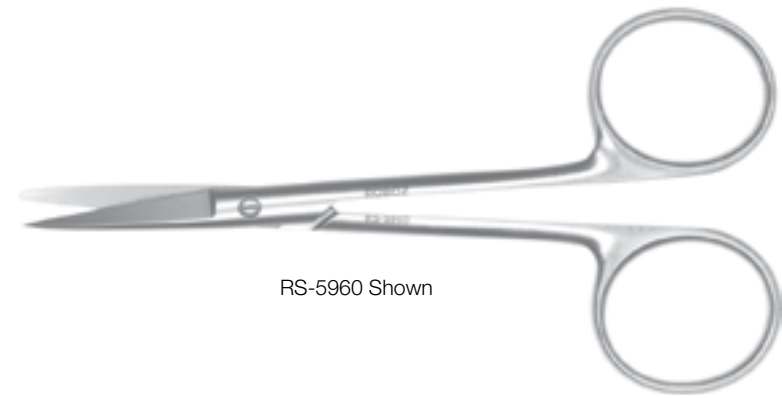
RS-5942 **STEVENS**
blade length 19mm
length 4.25"

RS-5943
straight, blunt
curved, blunt



RS-5942 Shown



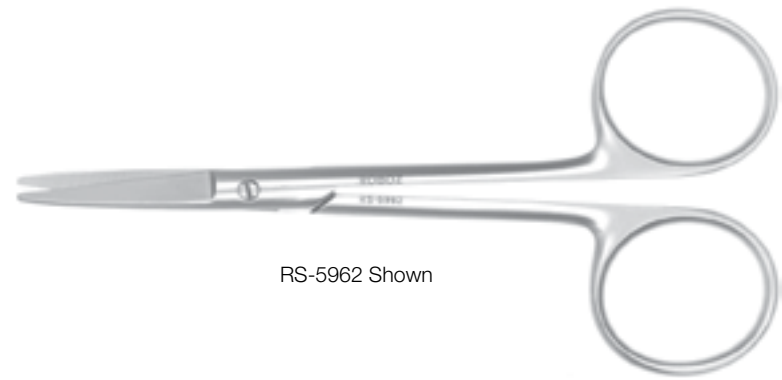


RS-5960 Shown

RS-5960
RS-5963

KNAPP
blade length 27mm
length 4"

straight, sharp-blunt
curved, sharp-blunt

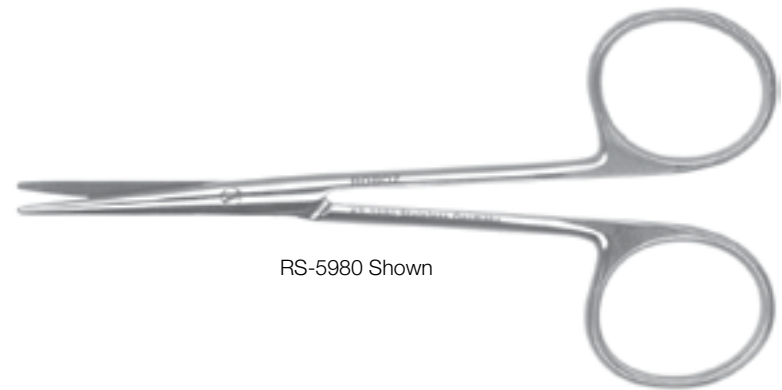


RS-5962 Shown

RS-5962
RS-5965

KNAPP
blade length 27mm
length 4"

straight, blunt-blunt
curved, blunt-blunt

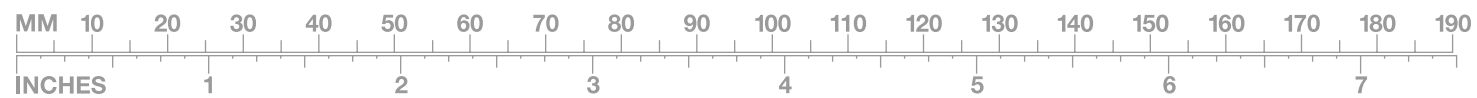


RS-5980 Shown

RS-5980
RS-5981

Micro Dissecting
blade length 22mm
length 4"

straight, blunt
curved, blunt



Micro Dissecting
blade length 25mm
length 4.5"

RS-5982
RS-5982L
RS-5984
RS-5983
RS-5983L
RS-5985

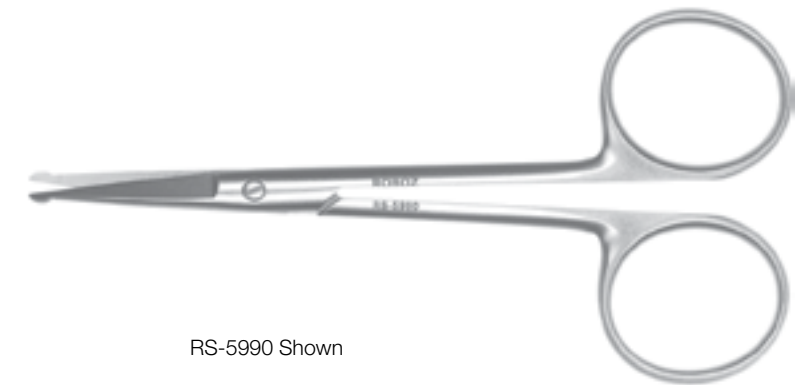
straight, blunt, standard
straight, left-handed version
straight, blunt, tungsten carbide*
curved, blunt, standard
curved, left-handed version
curved, blunt, tungsten carbide*



RS-5983 Shown

RS-5990

Probe Point Scissors
blade length 26mm
length 4"
straight



RS-5990 Shown

RS-5991
RS-5992

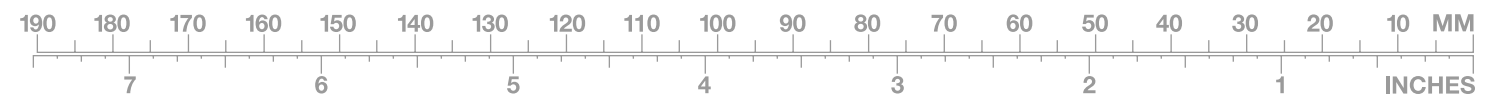
Artery Scissors
one sharp tip
one ball-point tip

20mm blade
length 3.5"
30mm blade
length 4.75"



RS-5991 Shown

* See page 106 for details on Tungsten Carbide scissors





RS-5998 **Probe Point Scissors**
 angled
 blade length 24mm
 length 4.5"



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

RS-8467 blunt tips
RS-8468 sharp tips



RS-6013 Shown

METZENBAUM
 length 5"

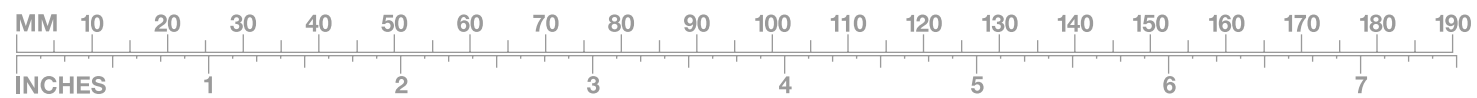
RS-6010 straight, blunt
 blade length 25mm

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

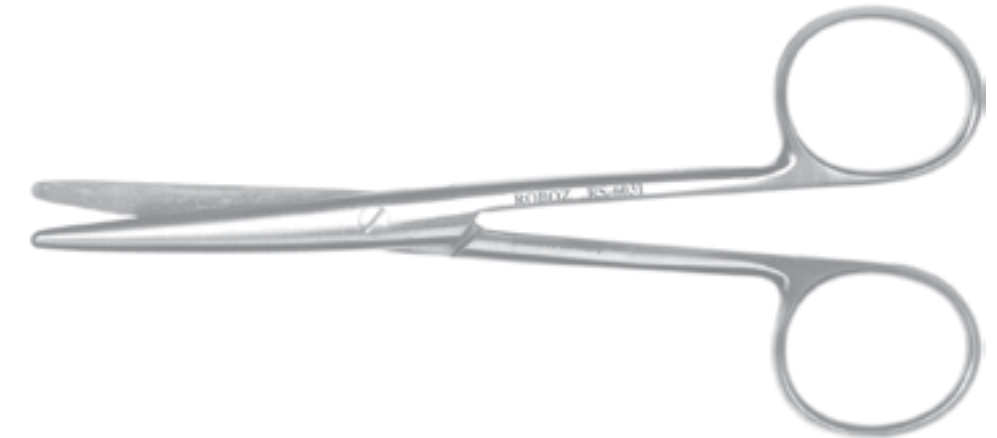
* See page 106 for details on Sure Cut scissors



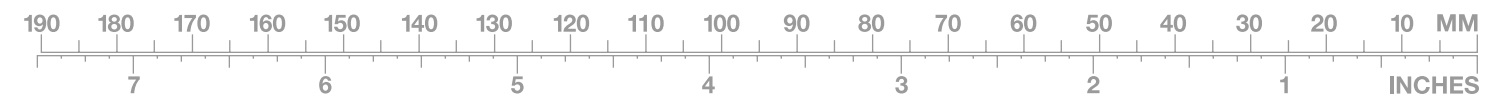
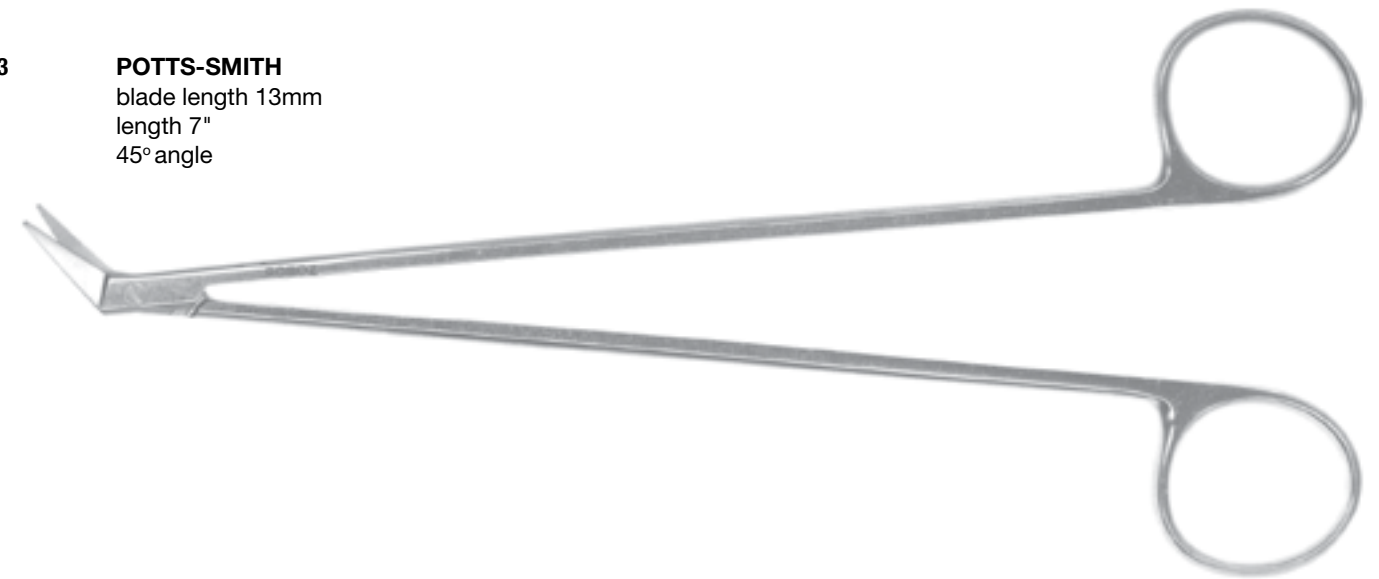
RS-6015 **RAGNELL**
 curved
 slender blunt points
 blade length 27mm
 length 5"



RS-6031 **Micro Dissecting**
 blade length 40mm
 length 5"
 curved, blunt



RS-6043 **POTTS-SMITH**
 blade length 13mm
 length 7"
 45° angle



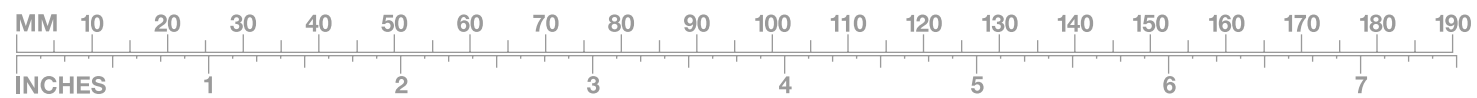
KELLY
blade length 29mm
length 6.25"

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



RS-6050 Shown

RS-6058 **KELLY**
angled, sharp
blade length 29mm
length 6.25"



Light Operating
blade length 30mm
length 4.75"

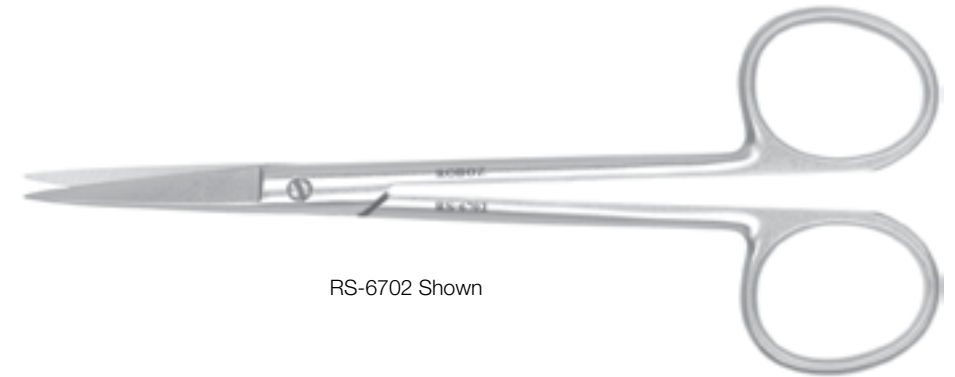
- RS-6700** straight, sharp-blunt
- RS-6706** curved, sharp-blunt



RS-6700 Shown

Light Operating
blade length 30mm
length 4.75"

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

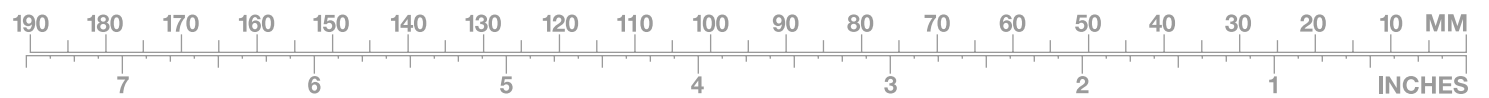


RS-6702 Shown

RS-6705 **Light Operating**
curved, blunt
blade length 30mm
length 4.75"



RS-6708 **Light Operating**
angled, sharp
blade length 30mm
length 4.75"



BROPHY
blade length 40mm
length 5.5"

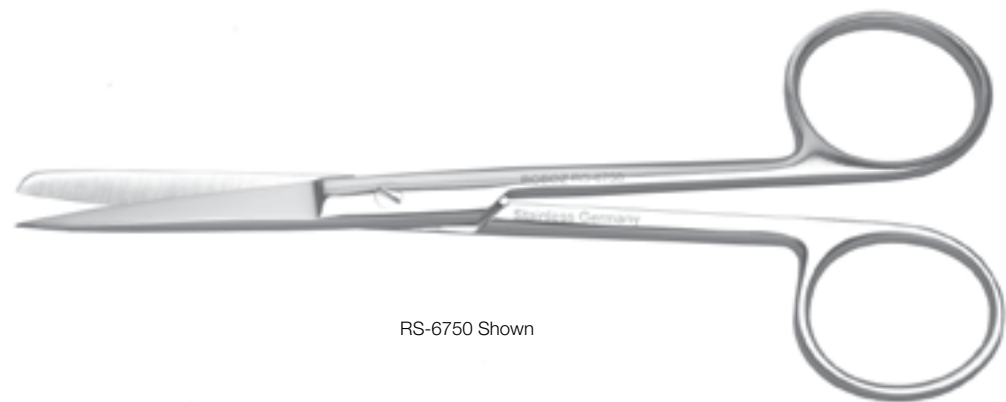
- RS-6730** straight, sharp
- RS-6731** curved, sharp



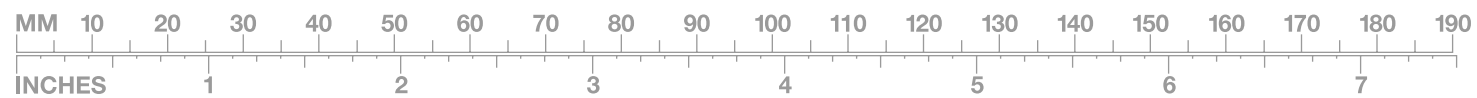
RS-6730 Shown

Light Operating
blade length 40mm
length 5"

- RS-6750** straight, sharp-blunt
- RS-6751** curved, sharp-blunt



RS-6750 Shown



Light Operating
blade length 40mm
length 5"

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



RS-6752 Shown

Light Operating
blade length 40mm
length 5"

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



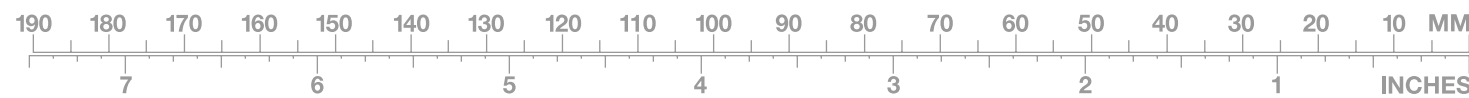
RS-6754 Shown

DEAVER
blade length 43mm
length 5.5"

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



RS-6760 Shown



DEAVER

blade length 43mm
length 5.5"

RS-6762

straight, sharp-sharp

RS-6763

curved, sharp-sharp



RS-6762 Shown

RS-6780

PERMA-SET*

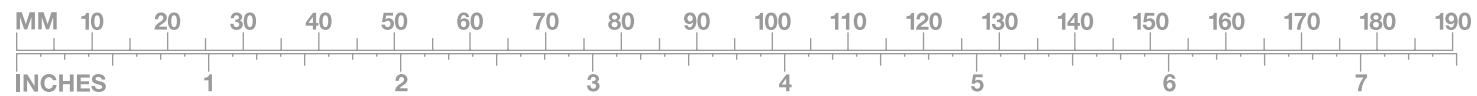
straight, sharp-blunt
blade length 45mm
length 5.5"



RS-6782

PERMA-SET*

straight, sharp-sharp
blade length 45mm
length 5.5"



Operating

sharp-blunt

RS-6800

straight, length 4.5"

RS-6806

straight, length 5"

RS-6812

straight, length 5.5"

RS-6812SC

SURE CUT*, straight
length 5.5"

RS-6818

straight, length 6"

RS-6824

straight, length 6.5"

RS-6830

straight, length 7.5"

RS-6832

straight, tungsten carbide*
length 5.5"

RS-6837

curved, length 4.5"

RS-6838

curved, length 5"

RS-6843

curved, length 5.5"

RS-6843SC

SURE CUT*, curved
length 5.5"

RS-6844

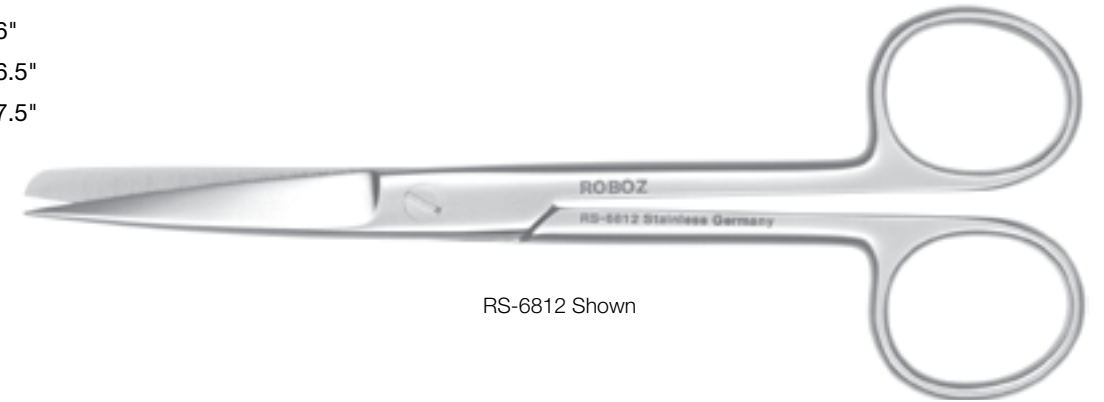
curved, length 6"

RS-6849

curved, length 6.5"

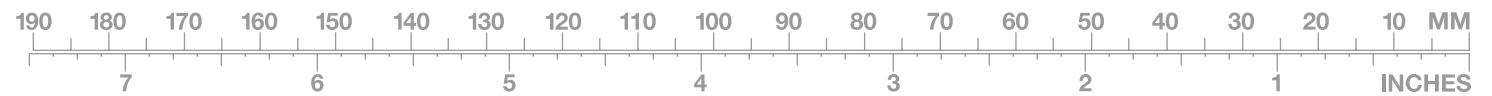
RS-6854

curved, length 7.5"

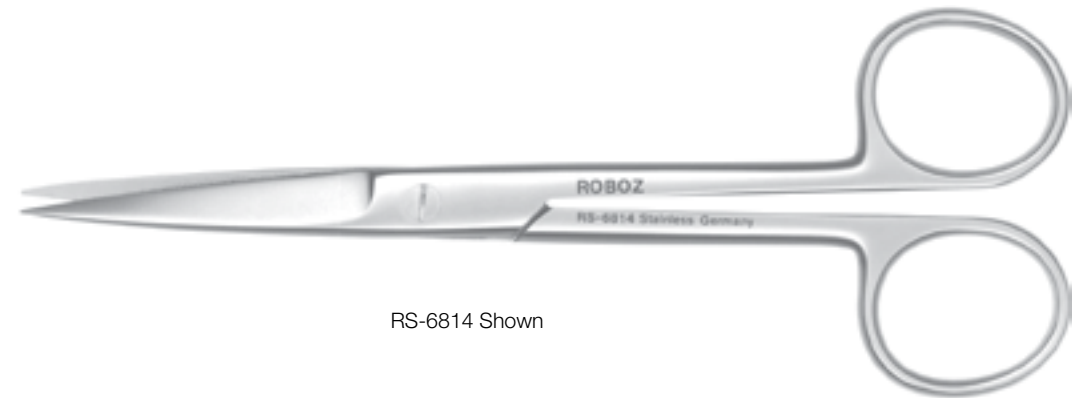


RS-6812 Shown

* See page 106 for details on Sure Cut, Tungsten Carbide, and Perma-Set scissors

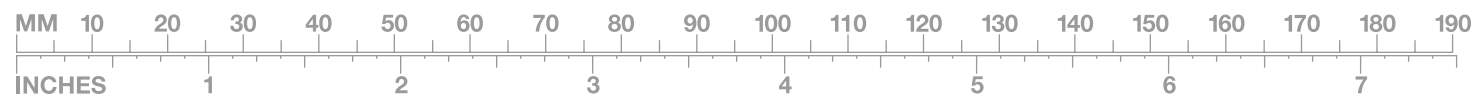


	Operating
	sharp-sharp
RS-6802	straight, length 4.5"
RS-6808	straight, length 5"
RS-6814	straight, length 5.5"
RS-6814SC	straight, SURE CUT*, length 5.5"
RS-6820	straight, length 6"
RS-6826	straight, length 6.5"
RS-6834	straight, tungsten carbide* length 5.5"
RS-6855	straight, length 7.5"
RS-6839	curved, length 4.5"
RS-6840	curved, length 5"
RS-6845	curved, length 5.5"
RS-6845SC	curved, SURE CUT*, length 5.5"
RS-6835	curved, tungsten carbide* length 5.5"
RS-6846	curved, length 6"
RS-6851	curved, length 6.5"
RS-6856	curved, length 7.5"



RS-6814 Shown

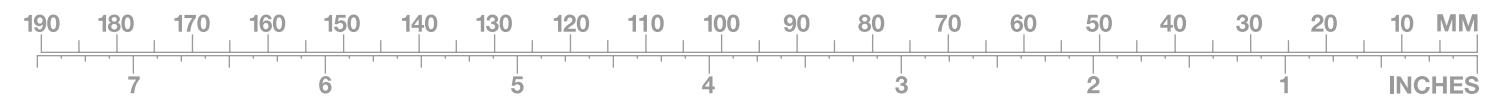
* See page 106 for details on Sure Cut and Tungsten Carbide scissors



	Operating
	blunt-blunt
RS-6804	straight, length 4.5"
RS-6810	straight, length 5"
RS-6816	straight, length 5.5"
RS-6822	straight, length 6"
RS-6828	straight, length 6.5"
RS-6857	straight, length 7.5"
RS-6841	curved, length 4.5"
RS-6842	curved, length 5"
RS-6847	curved, length 5.5"
RS-6848	curved, length 6"
RS-6853	curved, length 6.5"
RS-6858	curved, length 7.5"



RS-6816 Shown

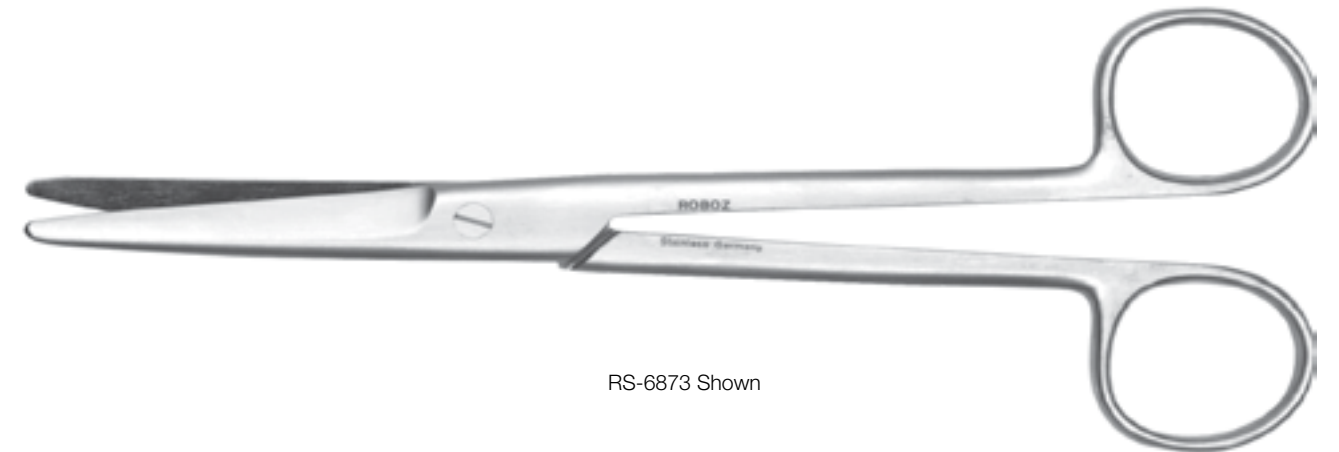


	MAYO straight
RS-6870	blade length 43mm length 5.5"
RS-6870SC	SURE CUT* blade length 43mm length 5.5"
RS-6872	blade length 53mm length 6.75"
RS-6872L	left-handed version
RS-6872SC	SURE CUT* blade length 53mm length 6.75"
RS-6874SC	SURE CUT* blade length 56mm length 9"
RS-6880	tungsten carbide* blade length 43mm length 5.5"
RS-6882	tungsten carbide* blade length 53mm length 6.75"



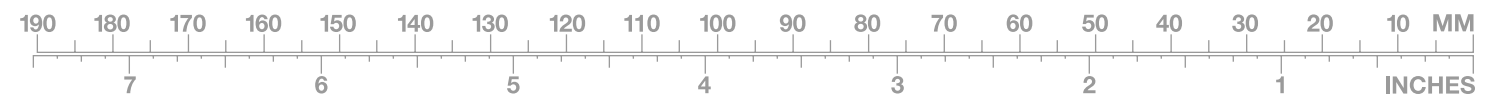
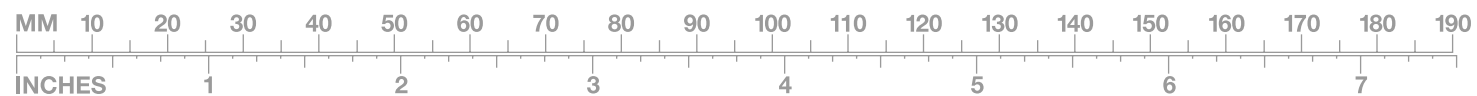
RS-6870 Shown

	MAYO curved
RS-6871	blade length 43mm length 5.5"
RS-6871SC	SURE CUT* blade length 43mm length 5.5"
RS-6873	blade length 53mm length 6.75"
RS-6873SC	SURE CUT* blade length 53mm length 6.75"
RS-6875SC	SURE CUT* blade length 63mm length 9"
RS-6881	tungsten carbide* blade length 43mm length 5.5"
RS-6883	tungsten carbide* blade length 53mm length 6.75"



RS-6873 Shown

* See page 106 for details on Sure Cut and Tungsten Carbide scissors

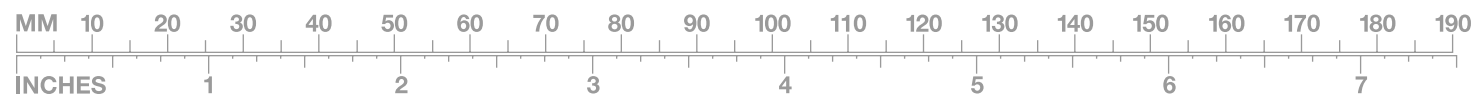


MAYO-STILLE
rounded blades

- RS-6890** straight
blade length 42mm
length 5.5"
- RS-6892** straight
blade length 49mm
length 6.75"
- RS-6891** curved
blade length 42mm
length 5.5"
- RS-6893** curved
blade length 49mm
length 6.75"



RS-6890 Shown



MAYO-NOBLE
blade length 48mm
length 6.5"

- RS-6920** straight
- RS-6921** curved



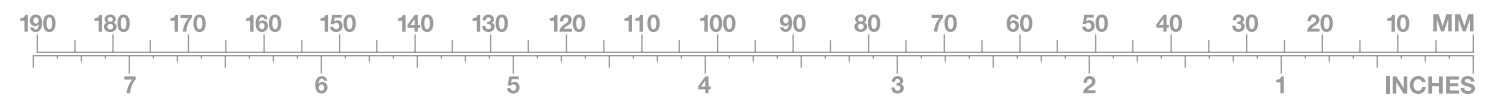
RS-6920 Shown

DOYEN
abdominal
blade length 67mm
length 7"

- RS-6930** straight
- RS-6931** curved



RS-6930 Shown



Veterinary
heavy pattern
sharp-blunt, serrated
blade length 57mm
length 6.5"

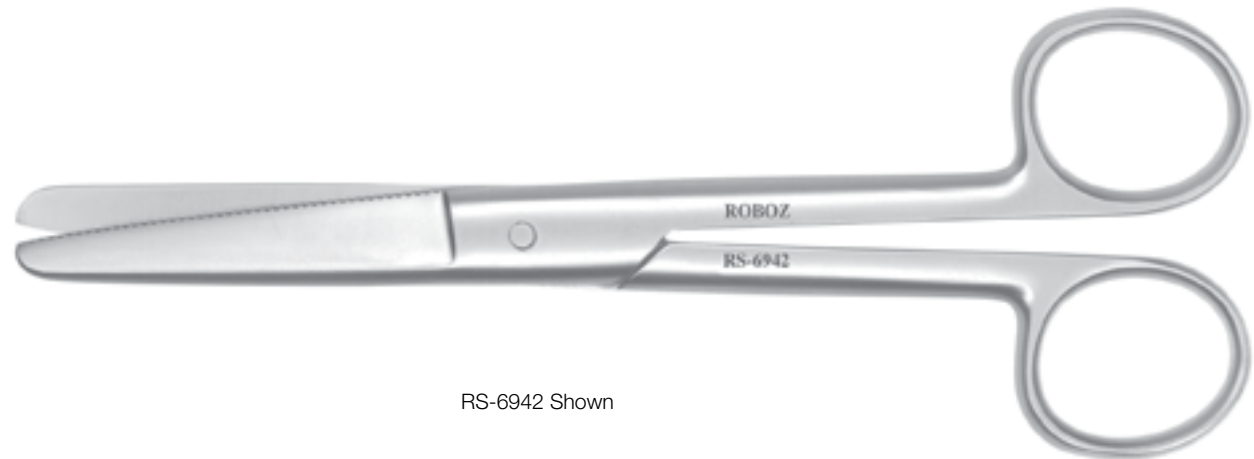
- RS-6940 straight
- RS-6941 curved



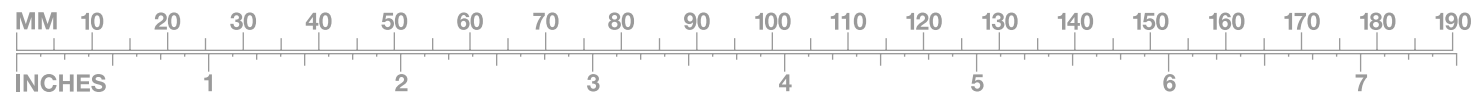
RS-6940 Shown

Veterinary
heavy pattern
blunt-blunt, serrated
blade length 57mm
length 6.5"

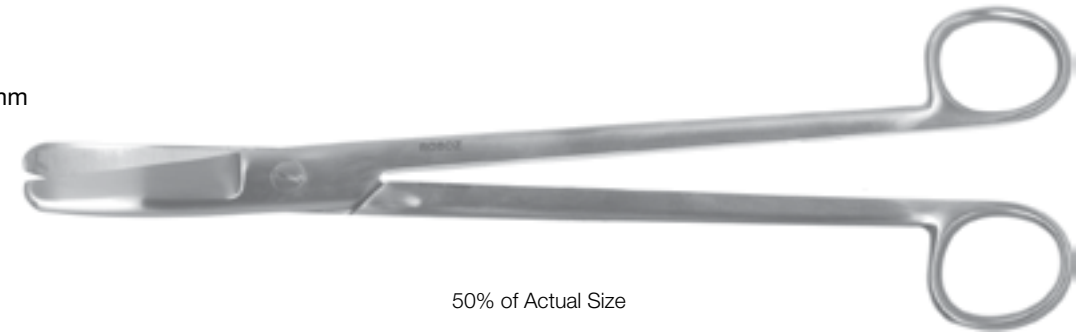
- RS-6942 straight
- RS-6943 curved



RS-6942 Shown



RS-6947 **DuBOIS**
decapitation
curved, serrated
blade length 57mm
length 10.5"



50% of Actual Size

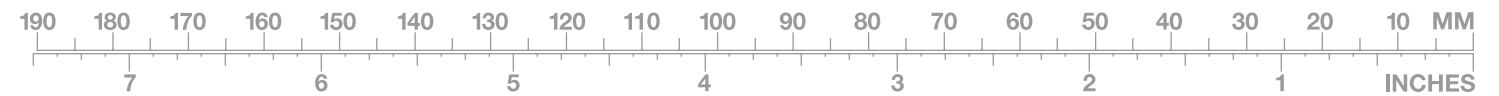
METZENBAUM
straight

- RS-6950 blade length 39mm
length 5.75" (Lahey)
- RS-6950SC blade length 39mm
length 5.75" (Lahey), SURE CUT*
- RS-6964 blade length 39mm
length 5.75" (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 106 for details on Sure Cut and Tungsten Carbide, scissors





RS-6960 Shown

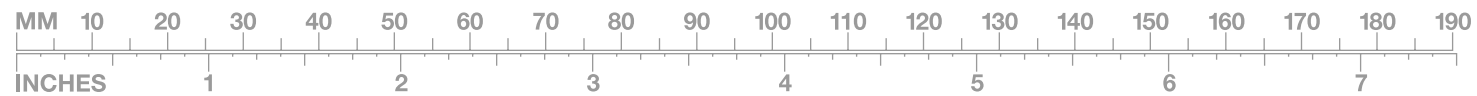
- METZENBAUM**
extra delicate
straight
blade length 39mm
- RS-6960** length 5.75"
 - RS-6961** length 5.75"
tungsten carbide*
 - RS-6962** length 7"
 - RS-6963** length 7"
tungsten carbide*



RS-6959 Shown

- METZENBAUM**
extra delicate
curved
blade length 39mm
- RS-6959** length 5.75"
 - RS-6967** length 5.75"
tungsten carbide*
 - RS-6957** length 7"
 - RS-6956** tungsten carbide*
length 7"
 - RS-6954SC** SURE CUT*
length 7"
 - RS-6955SC** SURE CUT*
tungsten carbide
blades
length 7"

* See page 106 for details on Sure Cut and Tungsten Carbide scissors

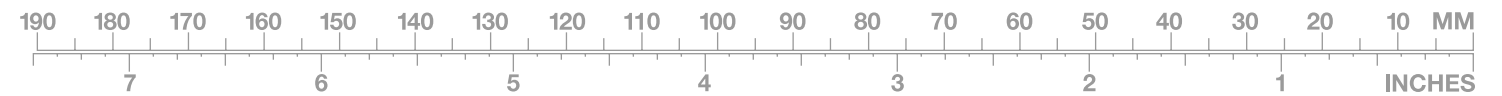


METZENBAUM
curved

- RS-6951** blade length 39mm
length 5.75" (Lahey)
- RS-6951SC** SURE CUT*
blade length 39mm
length 5.75" (Lahey)
- RS-6958** tungsten carbide*
blade length 39mm
length 5.75" (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



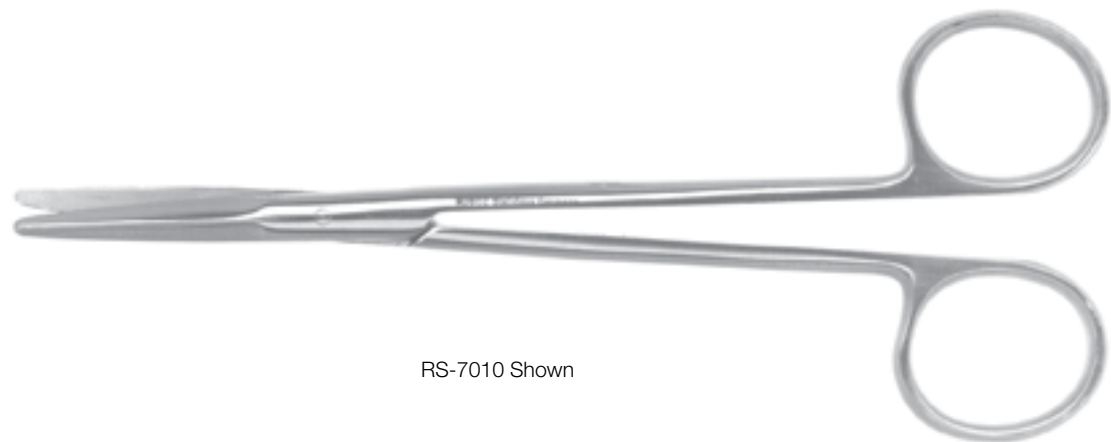
RS-7010

KAHN
blade length 32mm

straight
length 5.75"

RS-7011

curved
length 5.75"



RS-7010 Shown

RS-7030

SIMS
blade length 48mm
length 8"

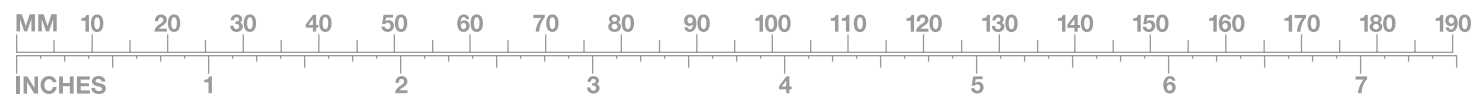
straight, sharp-sharp

RS-7031

curved, sharp-sharp



RS-7030 Shown
75% of Actual Size



RS-7041

DEAN
blades angled on flat
one serrated blade
slightly curved handles
blade length 21mm
length 6.75"

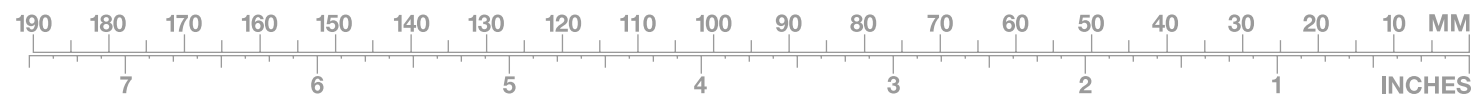


RS-7045

REYNOLDS
curved
tenotomy tips
blade length 35mm
length 6"

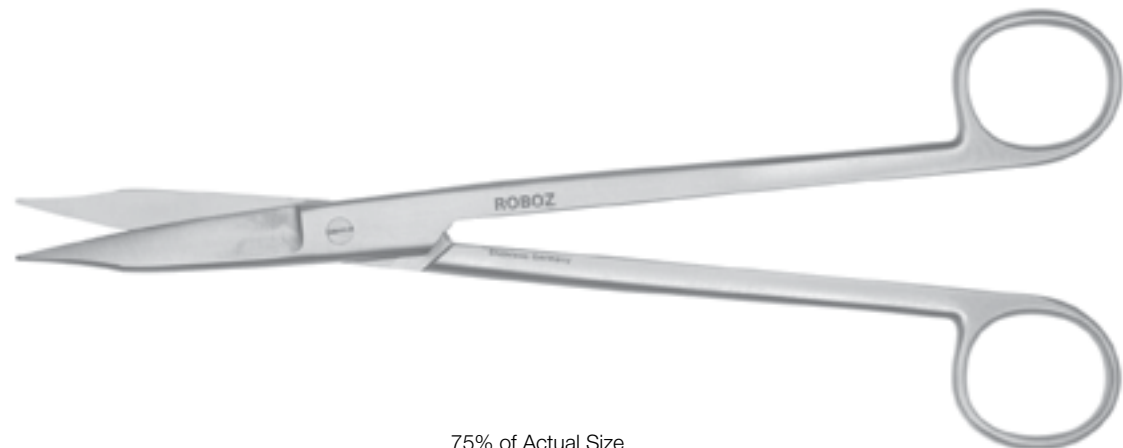


RS-7045 Shown



RS-7047

MARTIN
cartilage
serrated
blade length 48mm
length 7.75"



75% of Actual Size

RS-7060

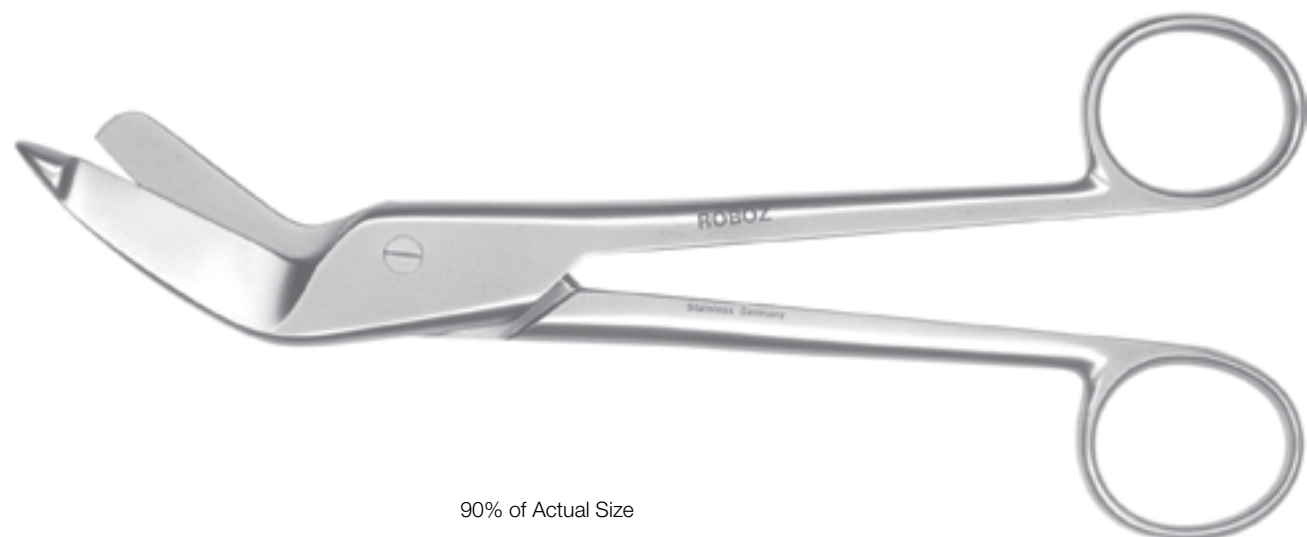
Enterotomy
hook blade
length 8.5"



75% of Actual Size

RS-7055

HERCULES
heavy duty
serrated
length 7.5"



90% of Actual Size

LISTER
bandage

RS-7084

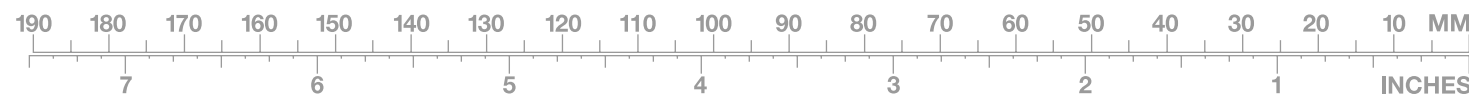
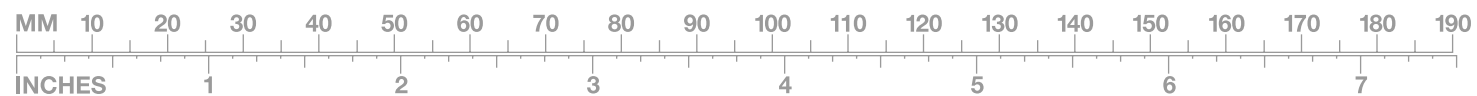
length 4.5"

RS-7085

length 5.5"



RS-7084 Shown



RS-7097
Extra Heavy Duty
hardened steel
serrated
length 7.75"



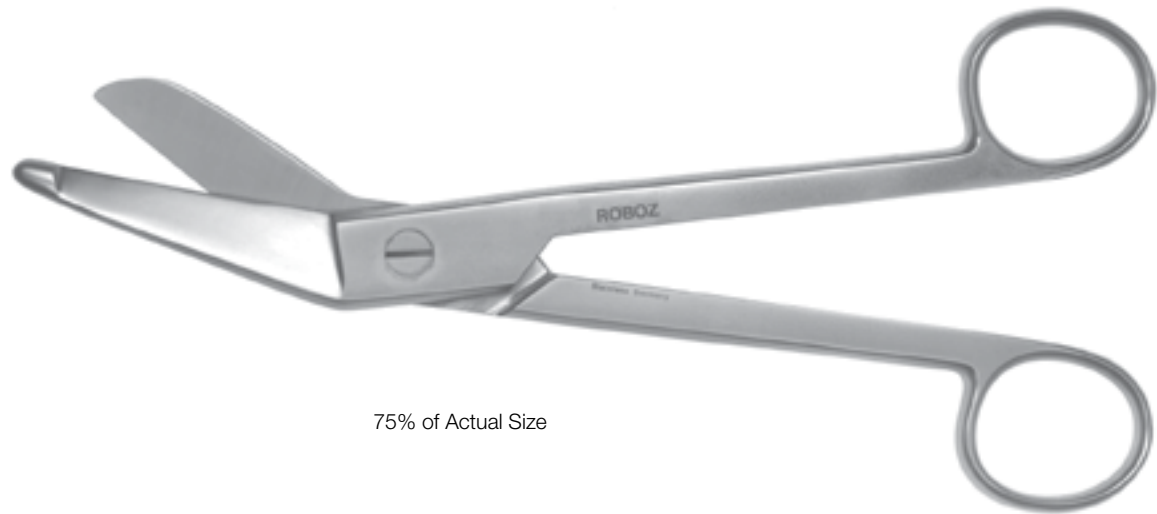
90% of Actual Size

RS-7099L
All Purpose
bandage/utility
serrated, autoclavable
black plastic handles
length 7.5"



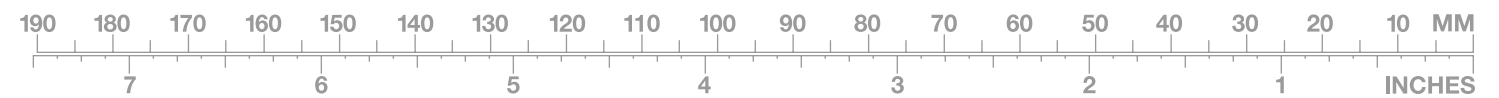
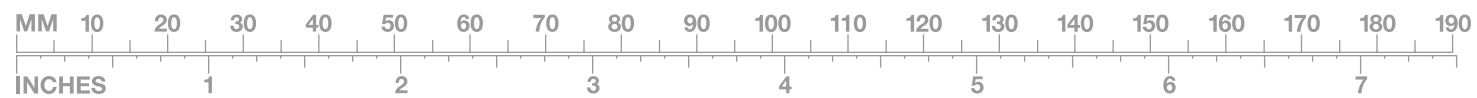
90% of Actual Size

RS-7098
ESMARCH
bandage
and plaster shears
length 8"



75% of Actual Size

RS-7099S
All Purpose
bandage/utility
serrated, autoclavable
black plastic handles
length 6.5"



Scissors Reference Page

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.

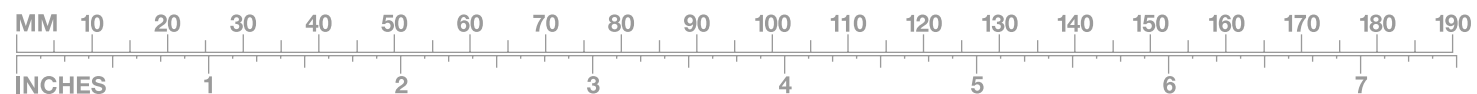
The ceramic coating lends incredible hardness to the material. The hard surface produces a very sharp cutting edge on one side while the serrations on the other side grip the tissue to prevent slipping. These two properties make cutting with these scissors very easy.

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.

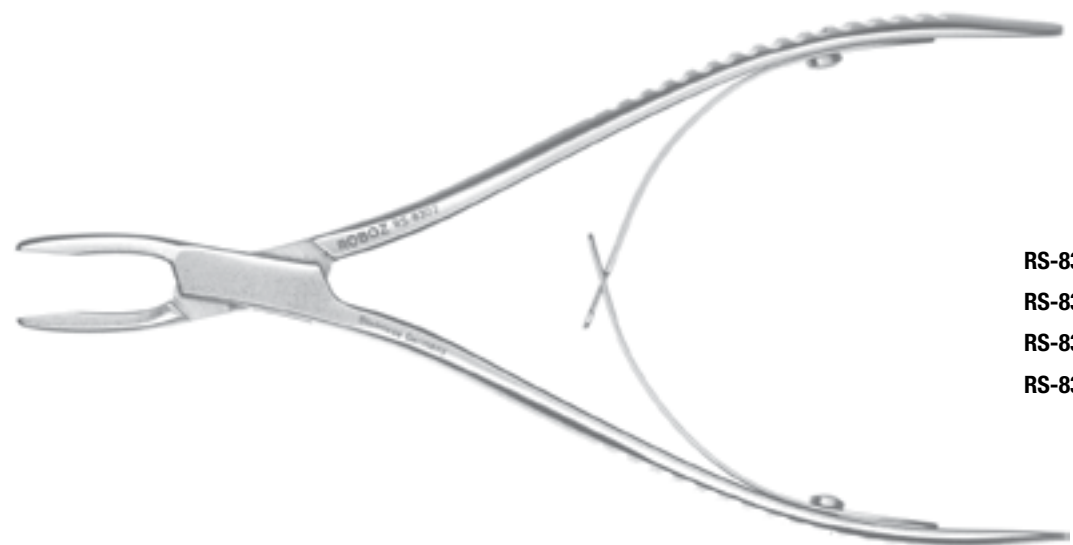
Perma-Set Scissors

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.



RS-8300

FRIEDMAN
slight curve
very delicate
jaw width 2mm
length 5.5"

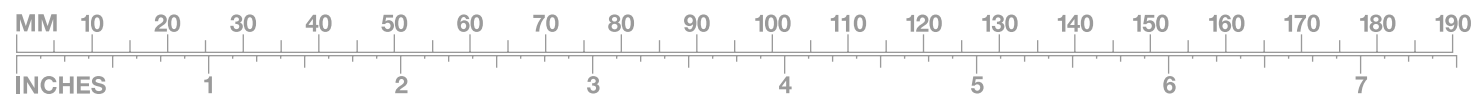


RS-8302
RS-8303
RS-8305
RS-8306

Micro FRIEDMAN
very delicate
jaw width 1.3mm
length 5.5"

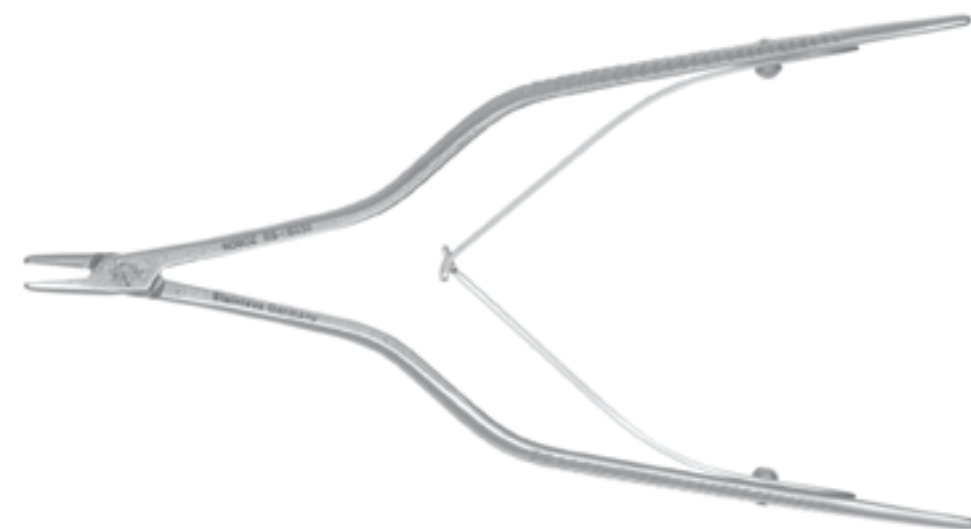
straight
curved
angled
extra delicate
jaw width 0.7mm
curved

RS-8302 Shown



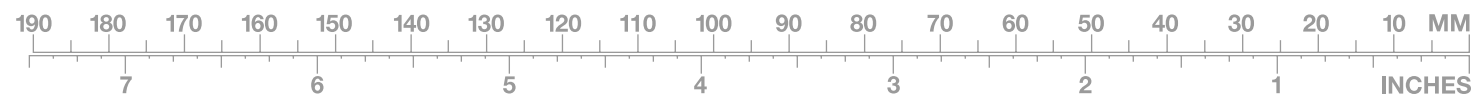
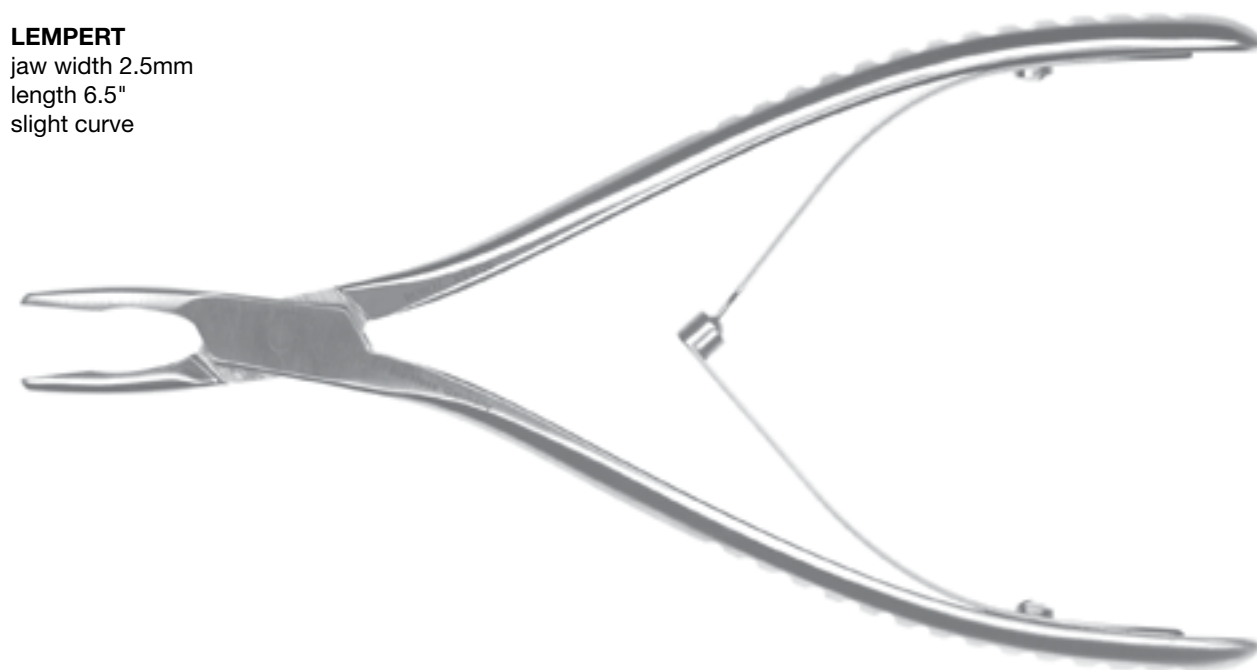
RS-8310

Mini Bone Rongeur
jaw width 2mm
jaw length 8mm
overall length 5"



RS-8321

LEMPERT
jaw width 2.5mm
length 6.5"
slight curve





RS-8301

Micro BLUMENTHAL
curved
length 4.5"

delicate
jaw width 1.3mm

RS-8340

jaw width 2mm



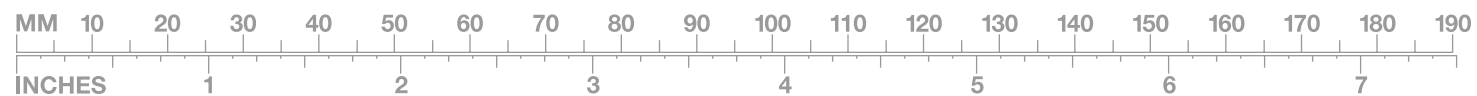
RS-8342

BLUMENTHAL
jaw width 2.5mm
slight angle
length 6"



RS-8360

HARTMAN
strong curve
length 5.75"



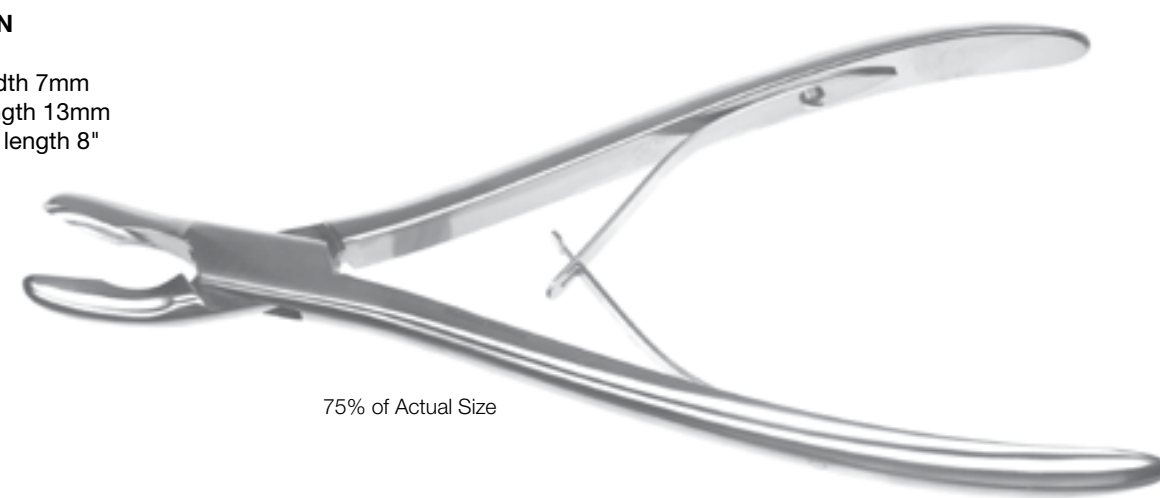
RS-8370

BANE
curved
length 7"



RS-8374

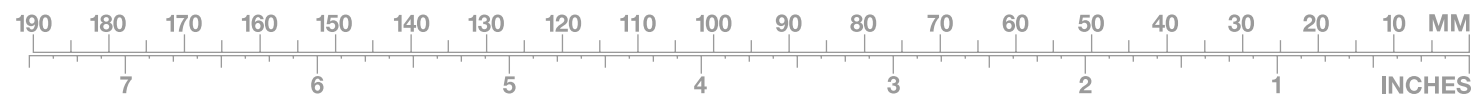
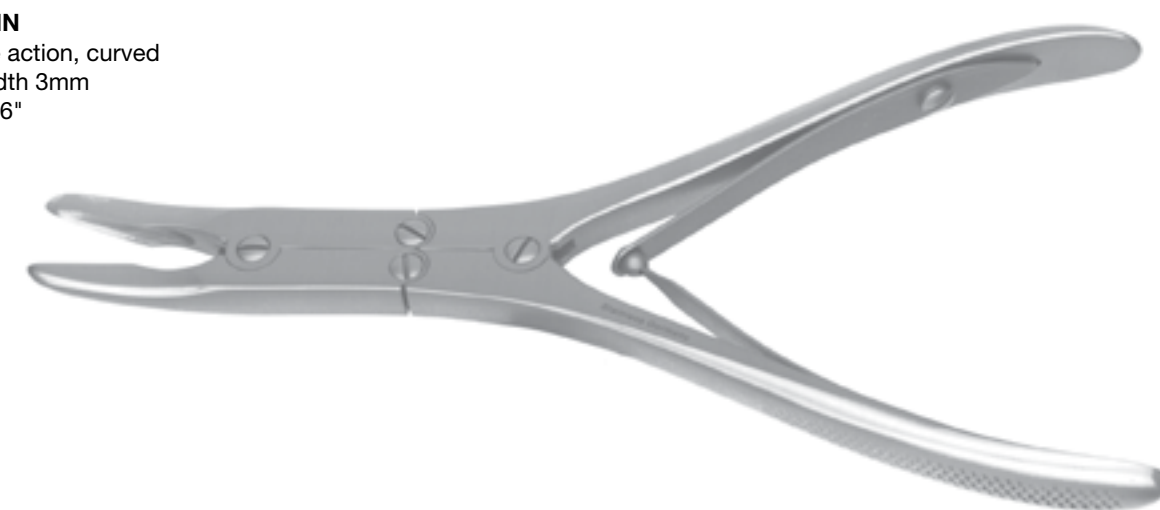
ADSON
curved
jaw width 7mm
jaw length 13mm
overall length 8"



75% of Actual Size

RS-8431

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





RS-8469

Extra Delicate Bone Trimmer
7mm cutting edge
length 5.5"



RS-8470

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



RS-8480 Shown

RS-8480

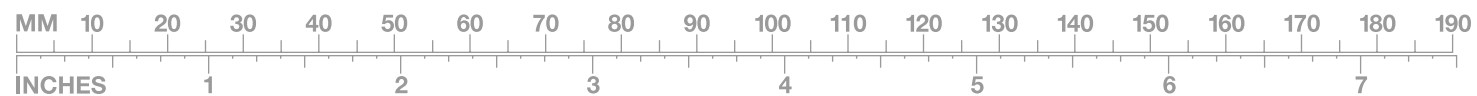
LITTAUER
bone cutting forceps
straight
13mm cutting edge

RS-8482

length 5"

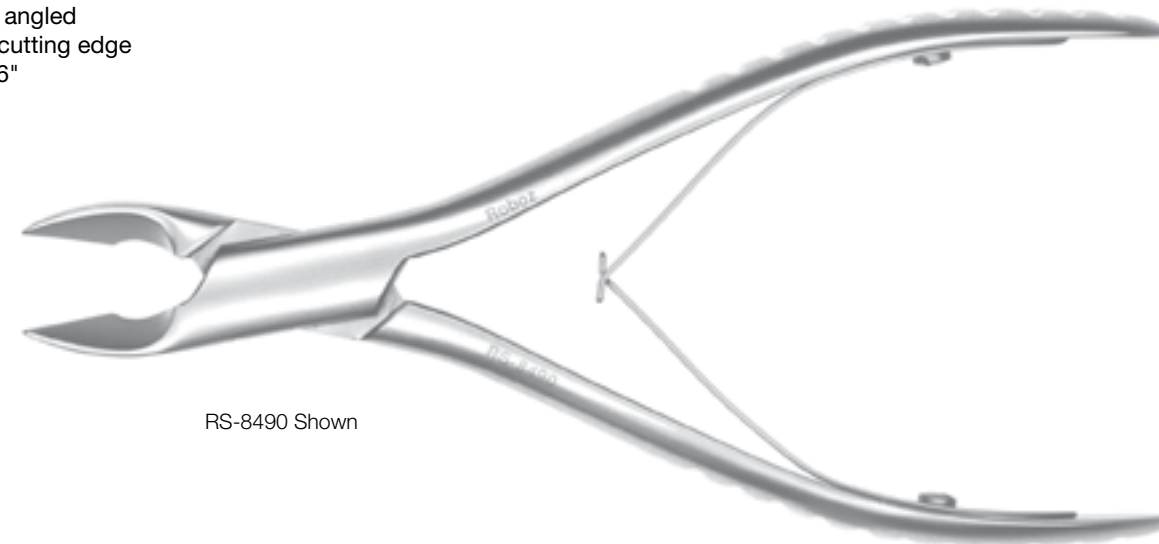
RS-8484

length 6"



RS-8490

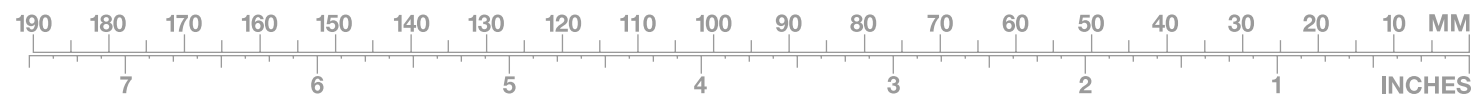
CLEVELAND
bone cutting forceps
side-cutting
slightly angled
12mm cutting edge
length 6"

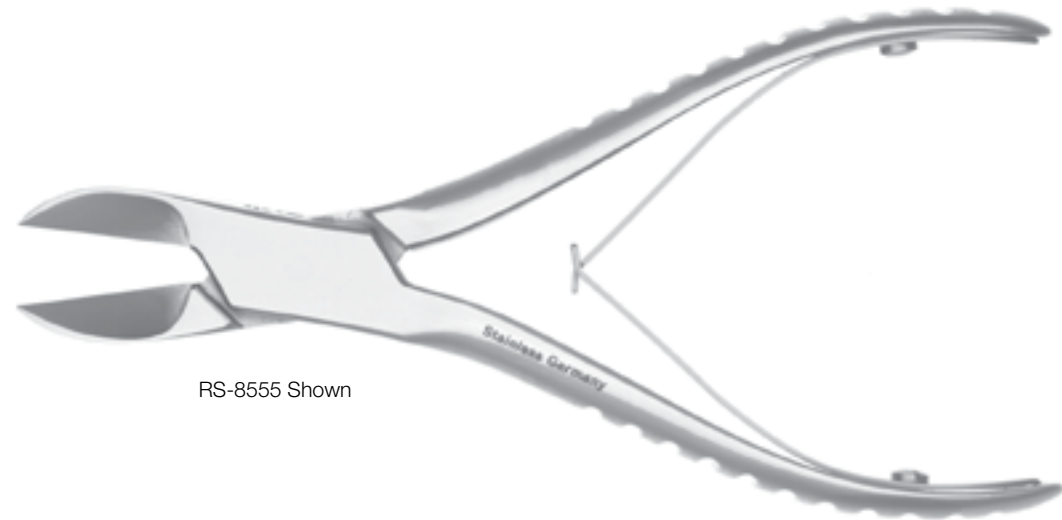


RS-8490 Shown

RS-8520

RUSKIN
double action, straight
length 5.5"





RS-8555 Shown

- RS-8540** straight, length 5.5"
- RS-8544** straight, length 8.5"
- RS-8555** angled on flat, length 5.5"
- RS-8559** angled on flat, length 8.75"

LISTON

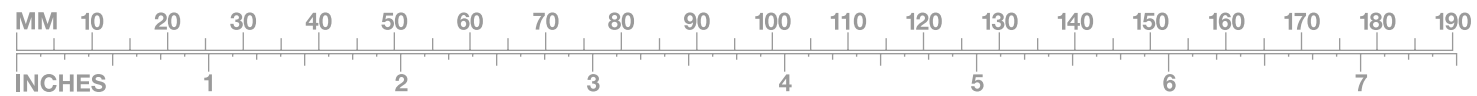


RS-8468 Shown

- RS-8467** blunt tips
- RS-8468** sharp tips

BEEBEE

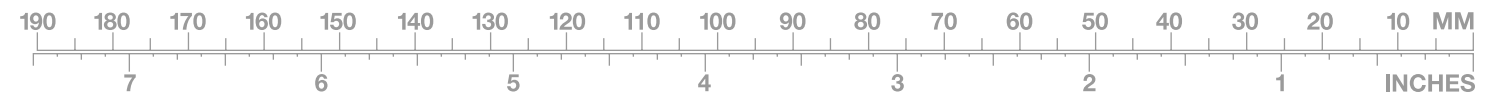
bone shears
strong blades
blade length 18mm
length 4"



- RS-8820** **FREER**
double ended
sharp and blunt blades
width 5mm
length 7"



- RS-8830** **MOLT**
double ended
sharp and blunt blades
tip width:
5mm sharp
8mm blunt
length 7.25"



RS-8910

FREER
width 4mm
length 6.5"
straight



RS-8910 Shown

RS-9782

VIRCHOW
skull breaker
blade 0.5"
length 3"



RS-9040

RS-9052

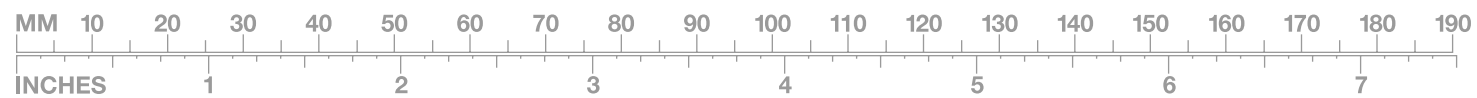
SPRATT
length 6.5"

oval, size 5/0

oval, size 2/0



RS-9040 Shown



RS-9110

GLUCK
rib shears
length 8.5"



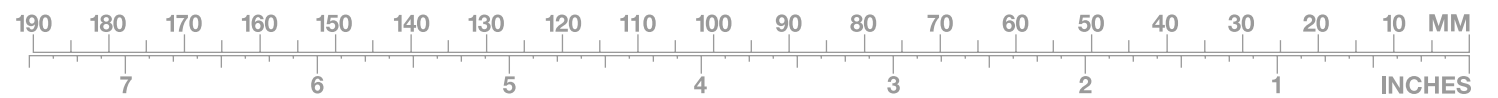
75% of Actual Size

RS-9120

LANGENBECK
saw
blade length 4.5"
blade width 2mm
overall length 9"



50% of Actual Size





1/2 1 2 3 4 5 6 7 8
mm .6 .8 1 1.2 1.4 1.6 1.85 2.1 2.3

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



33.5 34 35 36 37 38 39
mm .6 .8 1 1.2 1.4 1.6 1.8

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

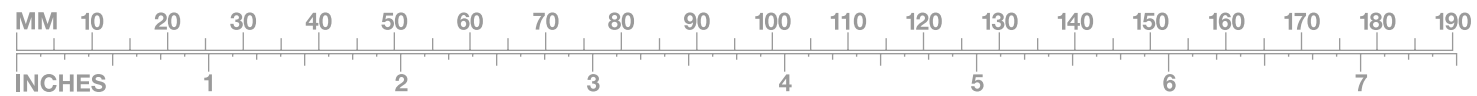


RS-6308 Shown

Trephine
micro dissecting
hand piece
carbide

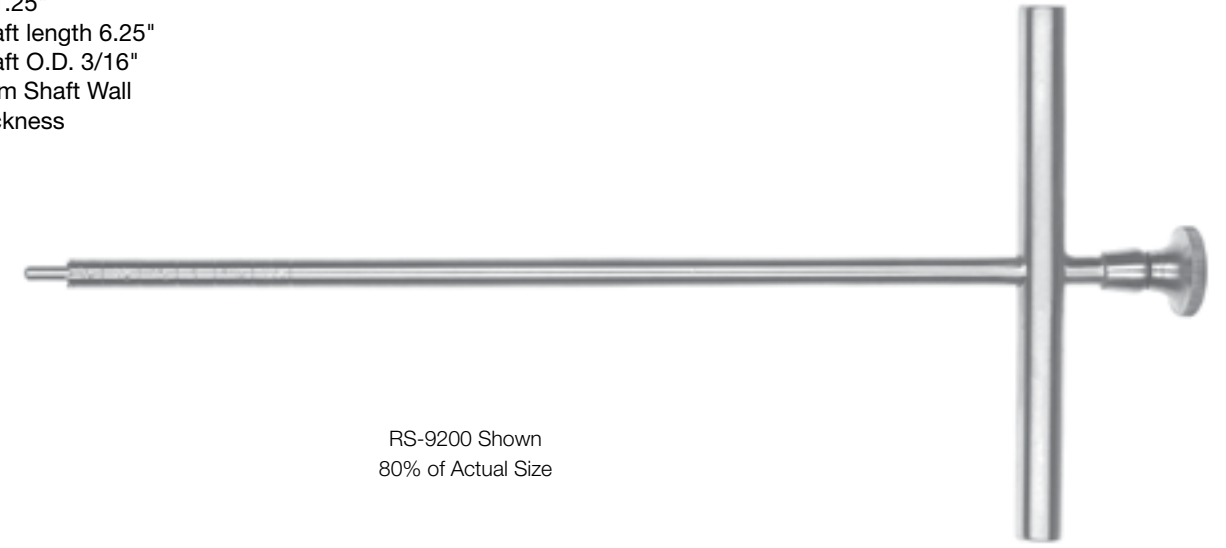
RS-6306
RS-6308
RS-6310

diameter 1.8mm
diameter 2.3mm
diameter 2.7mm

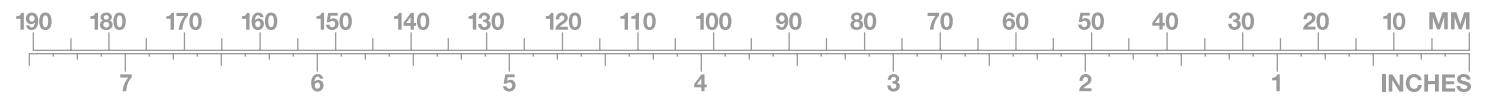


RS-9200

MICHELE
trephine
graduations 0.25"
to 1.25"
Shaft length 6.25"
Shaft O.D. 3/16"
1mm Shaft Wall
thickness

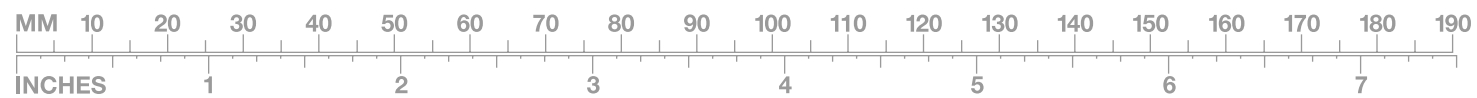
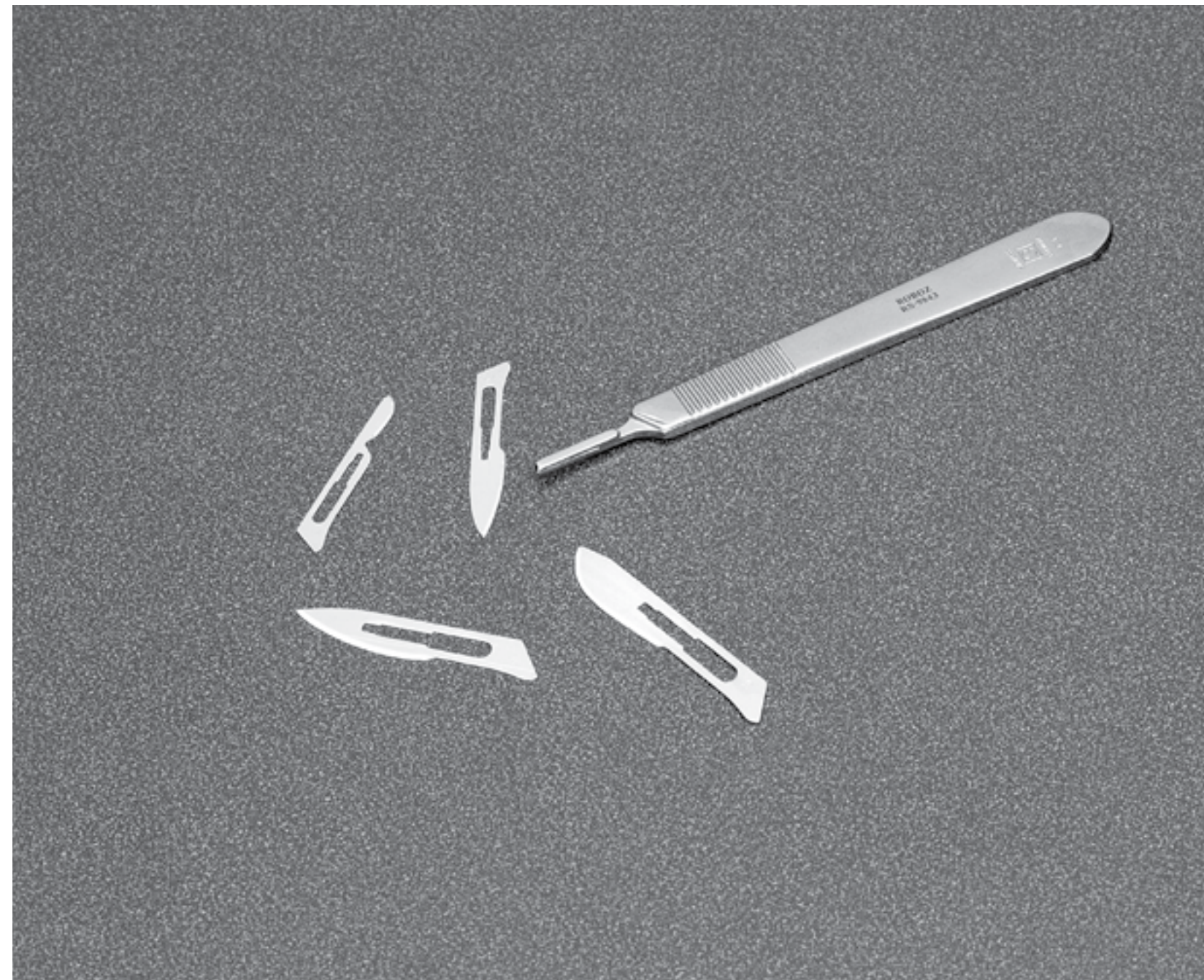


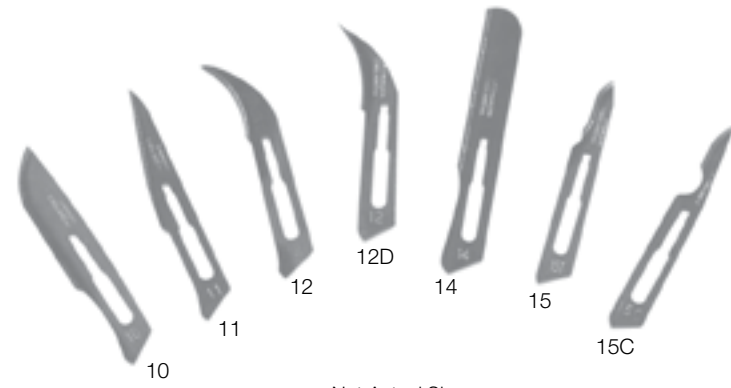
RS-9200 Shown
80% of Actual Size



Scalpels

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

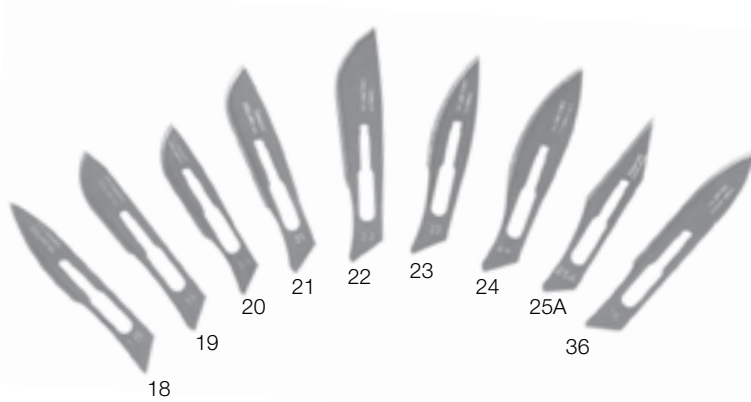




Not Actual Size

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

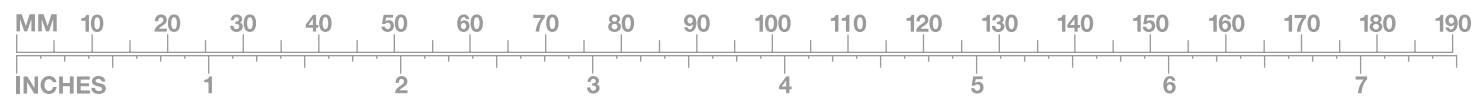
Sterile Scalpel Blades
interchangeable
nos. 18, 19, 20, 21, 22, 23, 24, 25A, 36
for use with handle #4
box of 100

- 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 disposal container.

Safely removes and stores approximately 100 scalpel blades.



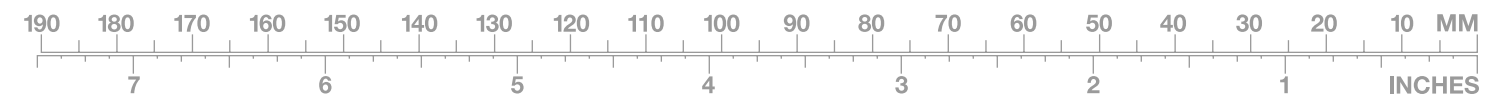
RS-9843 Scalpel Handle, #3
solid
length 4"



RS-9847 Scalpel Handle, #7
solid
length 6.25"



RS-9884 Scalpel Handle, #4
solid
length 5.25"





37-1350

Handle
round, knurled
length 13cm
diameter 0.5cm



37-4310

Handle
round, knurled
length 10cm
diameter 0.5cm



37-4312

Handle
round, knurled
length 7.5cm
diameter 0.5cm



37-5910

Needle blade
3.0mm cutting edge
box/3

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



37-5920

Needle blade
5.0mm cutting edge
box/3

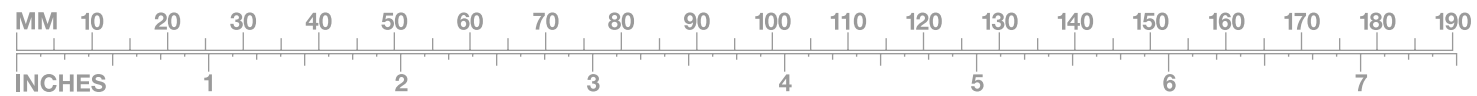
For use with handle #37-1350, 37-4310, or 37-4312



37-6100

Miniature blade
1.5mm cutting edge
box/24

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



37-7513

Miniature scalpel
disposable blade
assembly w/o handle
blue
15° blade angle
3mm cutting edge
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° blade angle
5mm cutting edge
box/6



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

37-7514

Miniature 1 piece
disposable scalpel
blue
15° blade angle
3mm cutting edge
box/6



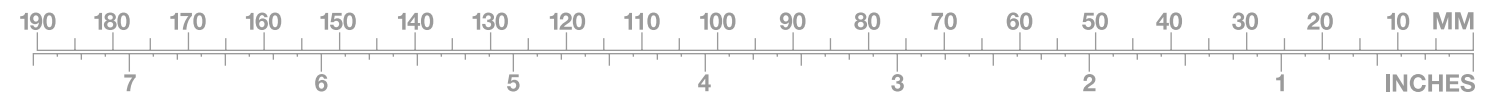
37-7516

Miniature 1 piece
disposable scalpel
green
15° blade angle
5mm cutting edge
box/6

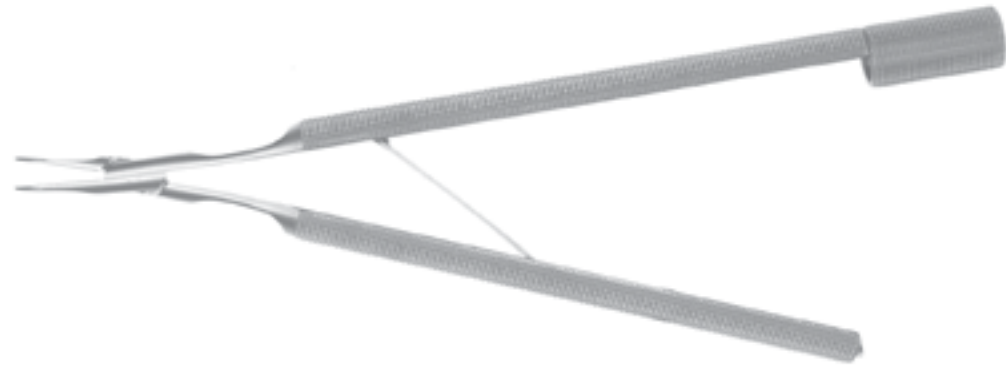


37-7546

Miniature 1 piece
disposable scalpel
tan
45° blade angle
3mm cutting edge
box/6

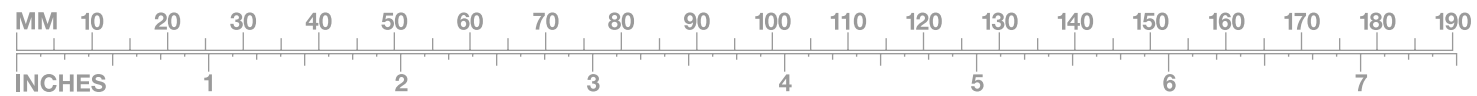


RS-6456 **CASTROVIEJO**
blade breaker
with push-pull lock
length 5.25"



RS-6458 **Breakable**
double edge blade,
carbon steel

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



RS-6100 **Micro Dissecting**
knife handle
straight
length 4.5"



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

RS-6110 **Micro Dissecting**
knife handle
tapered
length 5.5"



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

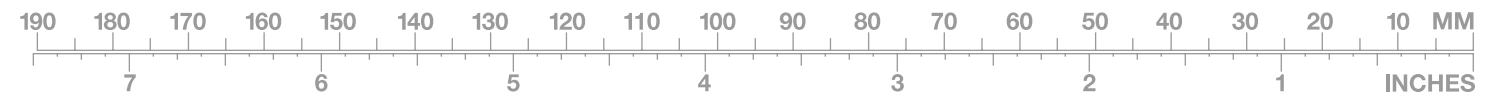
RS-6120 **Micro Dissecting Knife**
1mm cutting edge
shaft length 1.5"

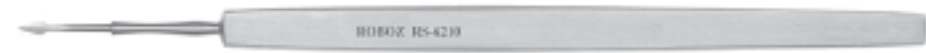


RS-6122 **Micro Dissecting Knife**
1.5mm cutting edge
shaft length 1.5"



RS-6125 **Micro Dissecting Knife**
spear point
1.5mm cutting edge
shaft length 1.5"





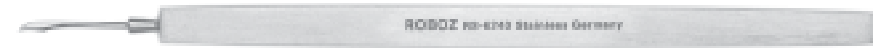
RS-6210 **BOWMAN**
micro dissecting knife
spear point
blade length 3mm
length 116mm



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



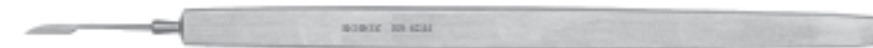
RS-6220 **DEAN**
micro dissecting knife
curved
blade 1 x 7mm
length 122mm



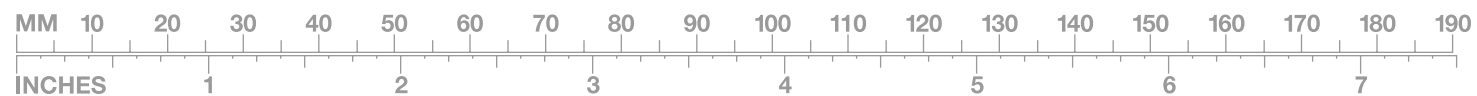
RS-6240 **ZIEGLER**
micro dissecting knife
no. 0, blade 3mm
overall length 109mm



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



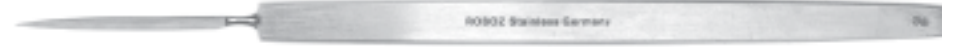
RS-6250 **GRAEFE**
micro dissecting knife
no. 0, blade 1 x 18mm
overall length 113mm



RS-6270 **GRAEFE**
micro dissecting knife
no. 1, blade 1.5 x 25mm
overall length 120mm



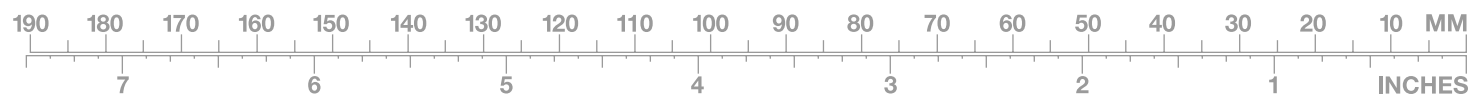
RS-6272 **GRAEFE**
micro dissecting knife
no. 2, blade 1.7 x 27mm
overall length 122mm



RS-9410 **SCHUKNECHT**
rotating disk knife
3mm disk diameter
disk in line with handle



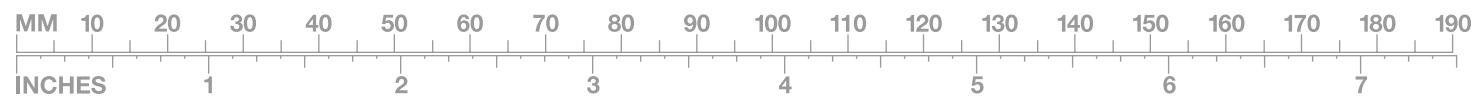
RS-9411 **SCHUKNECHT**
rotating disk knife
3mm disk diameter
disk perpendicular
to handle



Wound Closures

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				





Please specify size when ordering

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

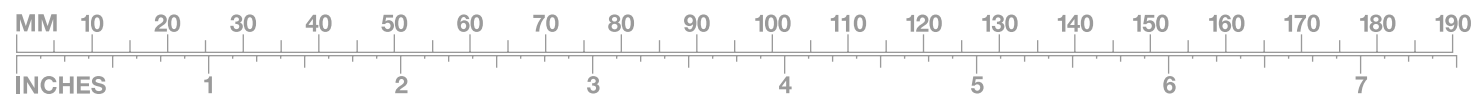
Eye Needles
1/2 circle, taper point
size: 1, 2, 3, or 4
sold by dozen



Please specify size when ordering

RS-7985

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



RS-7986

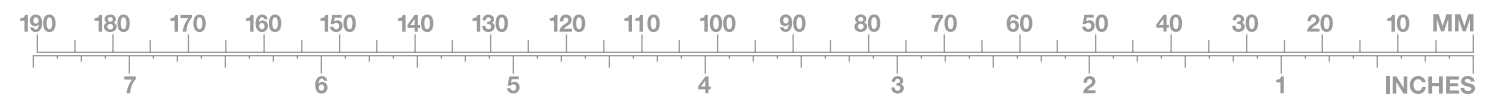
Regular Surgeon's
1/2 circle, cutting edge
sold by dozen



Please specify size when ordering

RS-7987

Fine Intestinal Needle
straight, taperpoint
sizes: 1.5"
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 CIRCLE



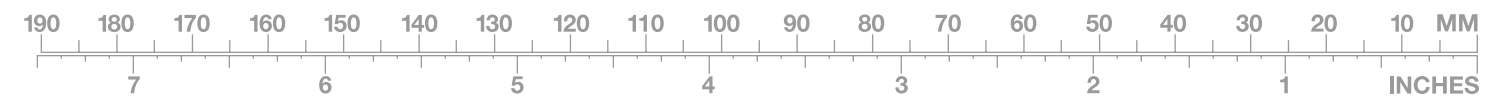
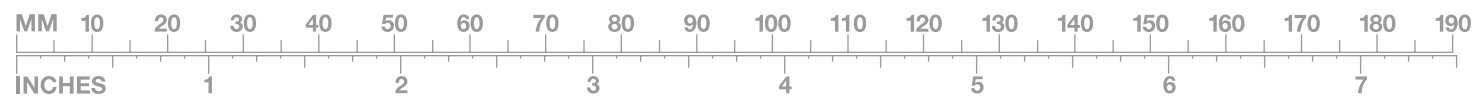
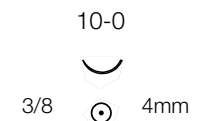
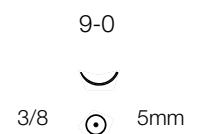
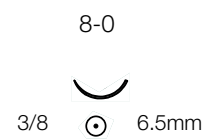
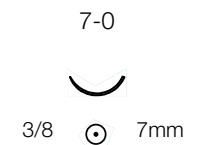
REVERSE CUTTING
1/2 CIRCLE



TAPER
1/2 CIRCLE



TAPER
3/8 CIRCLE

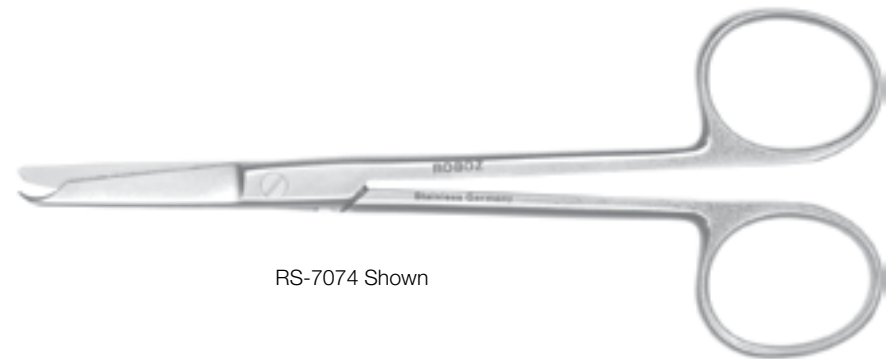




RS-7069
Wire Cutting
 serrated
 angled with notch
 length 5"

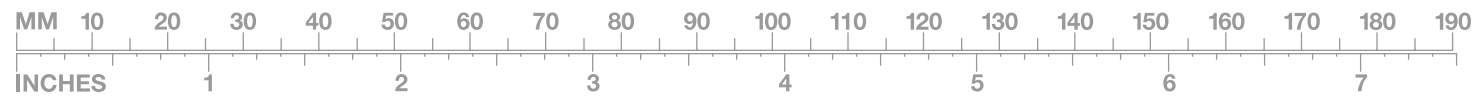


RS-5950
SPENCER
 stitch, very delicate
 length 3.5"



RS-7074 Shown

RS-7074
RS-7076
LITTAUER
 stitch
 length 4.5"
 length 5.5"



RS-6400
KALT
 with lock
 length 5.5"



RS-6403
PATTON
 straight without lock
 length 4.5"
 serrated



RS-6410
RS-6412
CASTROVIEJO
 length 5.75"
 straight without lock
 straight with lock

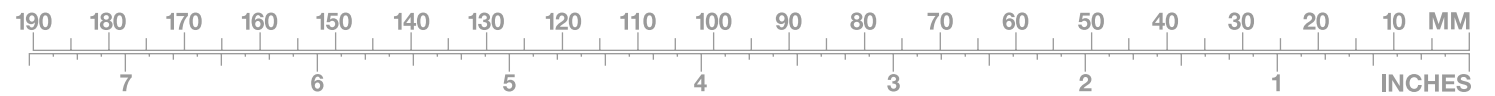


RS-6412 Shown

RS-6416
RS-6416T
RS-6417
CASTROVIEJO
 extra delicate
 0.75mm wide jaws
 to hold 7-0 to 10-0
 sutures
 length 5.75"
 straight with lock
 straight with lock, titanium
 curved with lock



RS-6417 Shown





RS-6421 McPHERSON
tip width 0.8mm
length 4"
curved
smooth tapered jaws



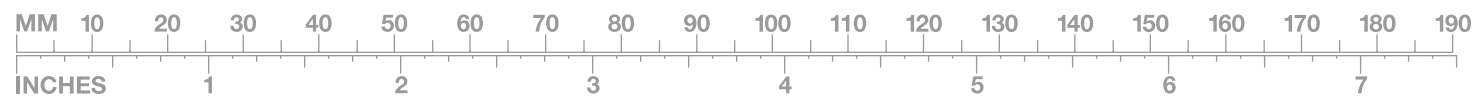
RS-6430 CASTROVIEJO
round handle with lock
carbide jaws
length 4.5"



RS-6437 Micro Needle Holder
tip width 0.8mm
length 5"
curved jaws with lock



RS-6445 Micro Needle Holder
tip width 0.8mm
length 7"
curved jaws with lock



Intracardiac
tungsten carbide jaws
tip width 1.2mm

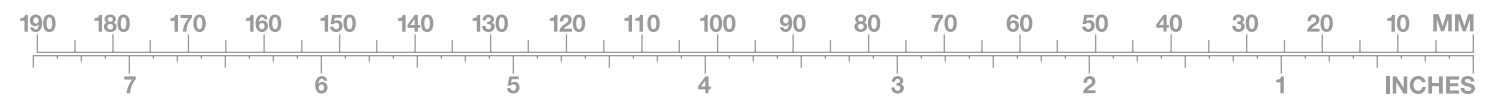
RS-7800 length 5"
RS-7804 length 7"



RS-7800 Shown

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

RS-7820 BABY DERF
large finger rings
length 4.25"





RS-7822 Shown

RS-7822

DERF
length 4.75"

standard jaws

RS-7824

tungsten carbide jaws



RS-7830 Shown

RS-7830

WEBSTER
smooth jaws, delicate

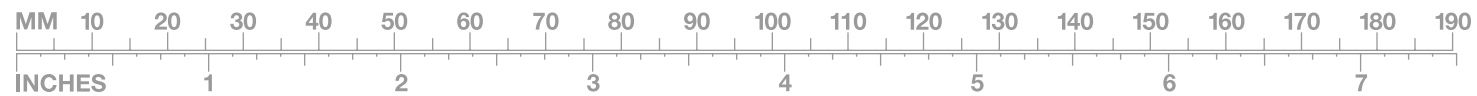
length 4.75"

RS-7832

length 5"

RS-7842

length 5"
tungsten carbide jaws



HALSEY
length 5"

RS-7840

smooth jaws

RS-7841

tungsten carbide jaws

RS-7841L

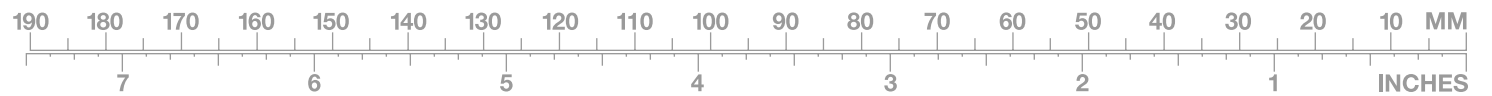
left-handed version



RS-7840 Shown

RS-7850

HEGAR-BAUMGARTNER
length 5.25"



CRILE-WOOD

- RS-7860**
- RS-7862**

length 6"
length 7"



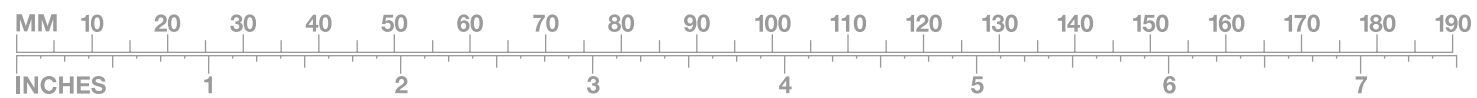
RS-7860 Shown



RS-7880 Shown

- RS-7880**
- RS-7882**

OLSEN-HEGAR
combination scissor
tip width 1.5mm
length 4.75"
serrated jaws
smooth jaws

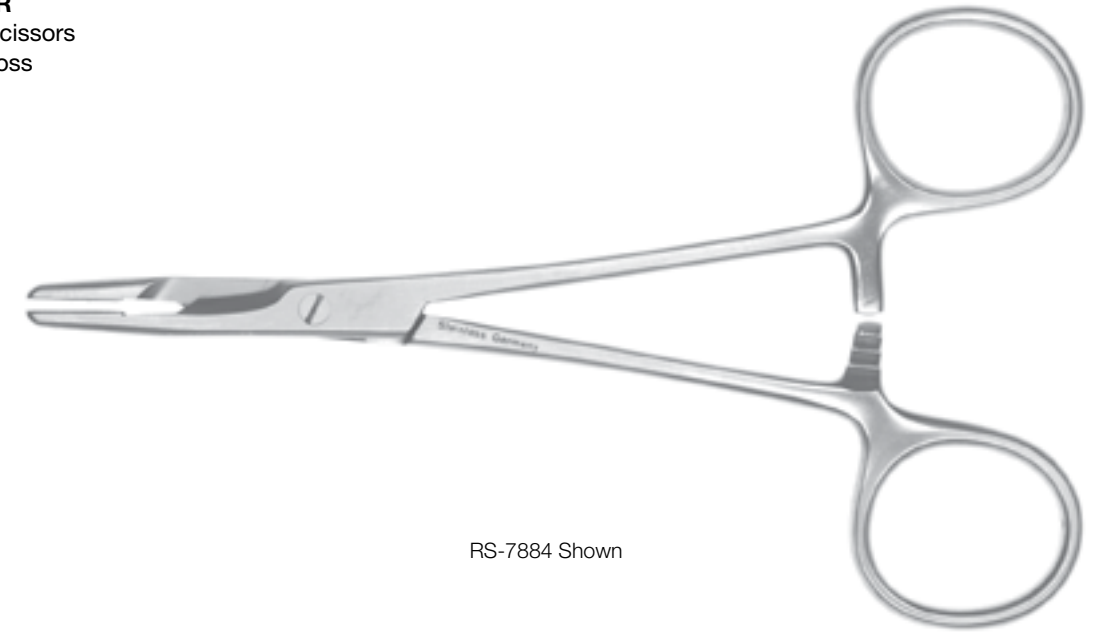


OLSEN-HEGAR

needle holder scissors
combination cross
serration tip

- RS-7884**
- RS-7886**

length 5.5"
length 6.5"



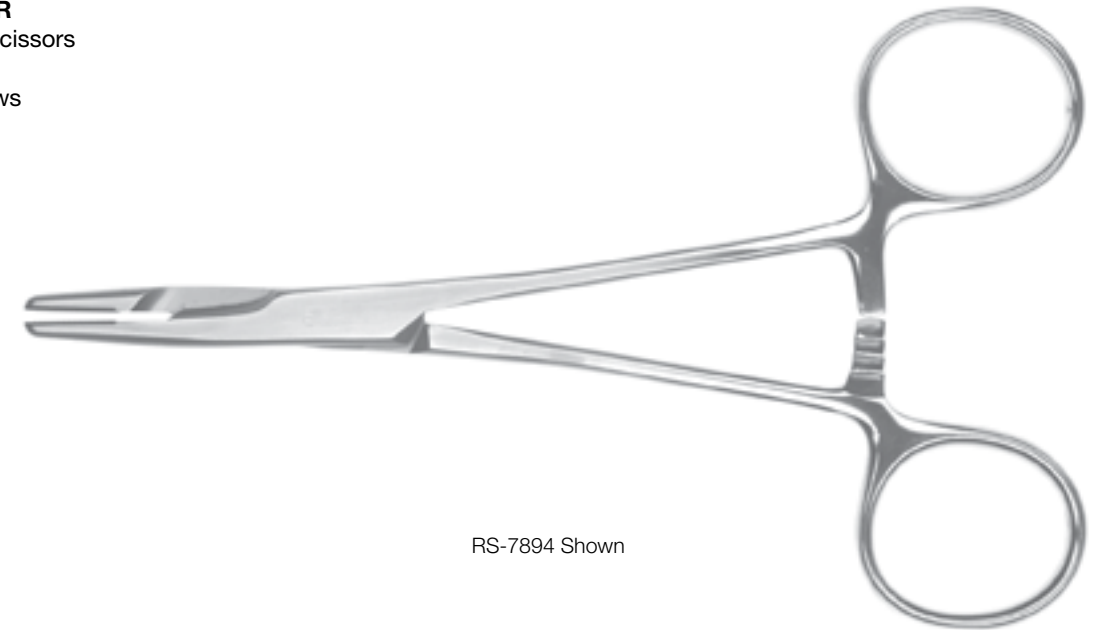
RS-7884 Shown

OLSEN-HEGAR

needle holder scissors
combination
with carbide jaws

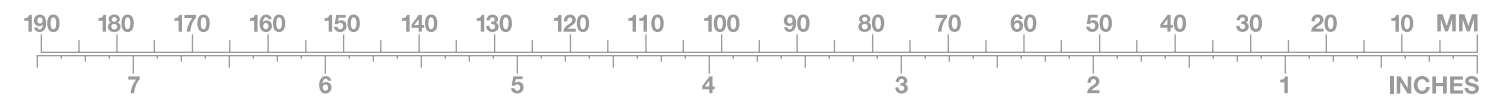
- RS-7892**
- RS-7894**
- RS-7896**

length 4.75"
length 5.5"
length 6.5"

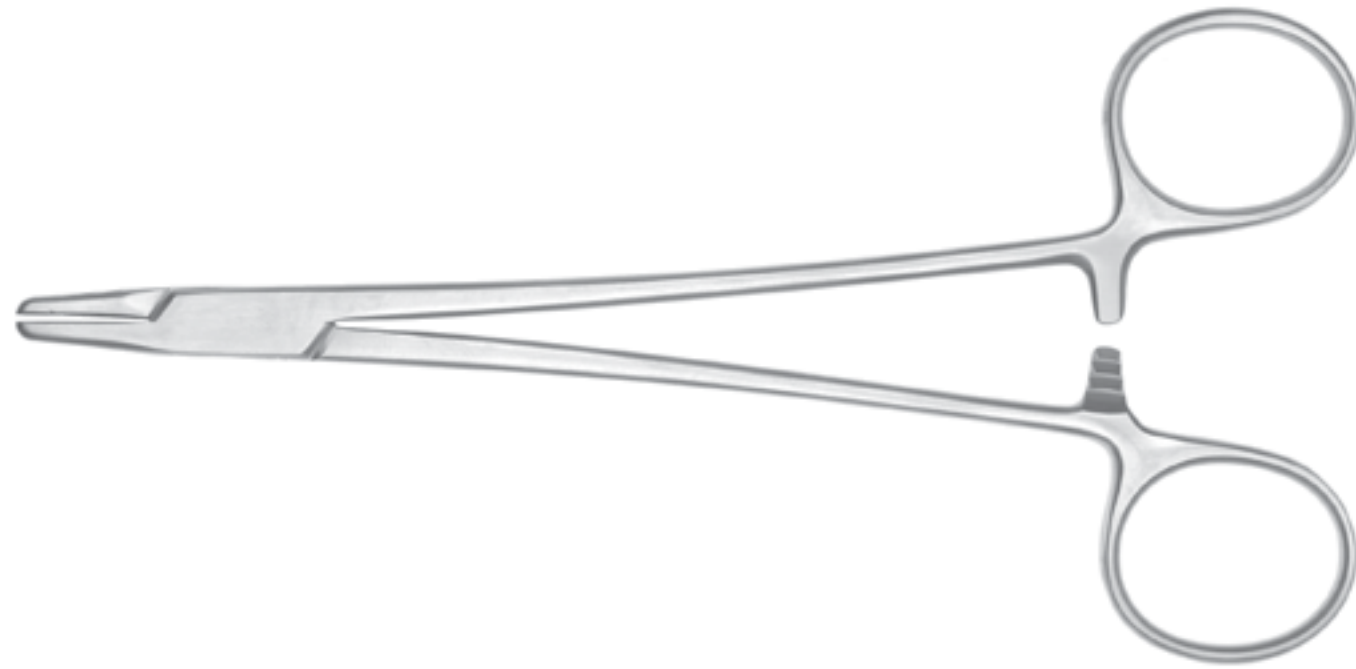


RS-7894 Shown

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



RS-7900 **METZENBAUM**
length 7"
straight

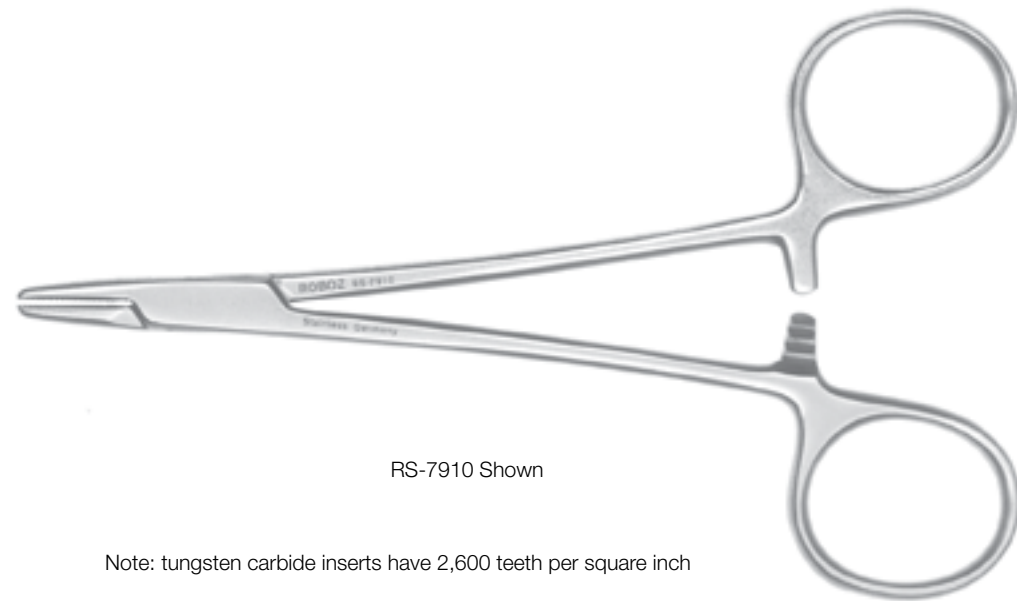


RS-7960 **BROWN**
convex jaw
with fine serrations
for easy suture tying
length 5.25"



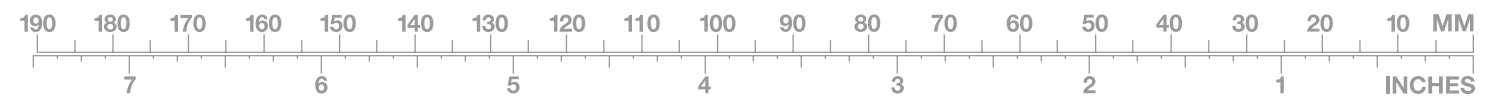
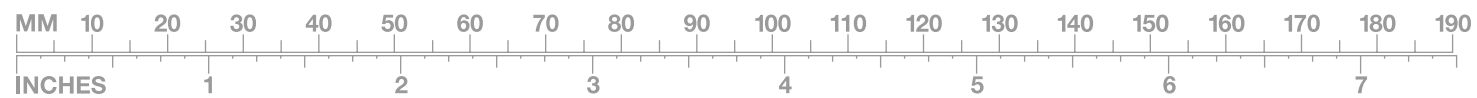
MAYO-HEGAR

- RS-7910** length 5.25"
- RS-7912** length 6.25"
- RS-7912L** left-handed version
- RS-7920** with carbide jaws length 5.25"
- RS-7922** with carbide jaws length 6.25"



RS-7910 Shown

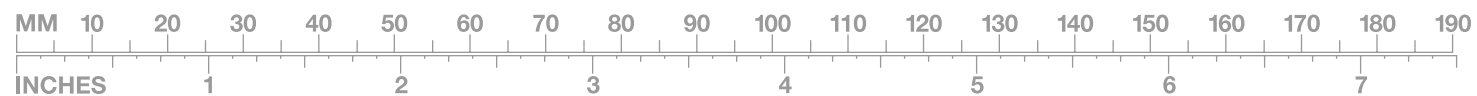
Note: tungsten carbide inserts have 2,600 teeth per square inch



Reflex Wound Clip Products

- RS-9260** 9mm Wound Clip Applier for Reflex 9mm clips only
- RS-9262** 9mm Wound Clips box of 100 stainless steel for use with RS-9260 only
- RS-9265** 9mm Wound Clips box of 1000 stainless steel for use with RS-9260 only
- RS-9250** 7mm Wound Clip Applier for Reflex 7mm clips only
- RS-9258** 7mm Wound Clips box of 100 stainless steel for use with RS-9250 only
- RS-9255** 7mm Wound Clips box of 1000 stainless steel for use with RS-9250 only

- RS-9263** **Reflex Wound Clip** removing forceps for 9mm and 7mm Reflex wound clips 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"

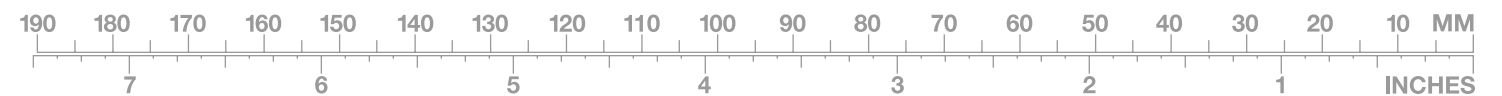


- RS-9292** **MICHEL** clip applying forceps length 5"



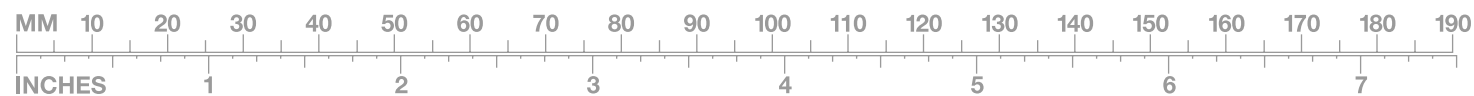
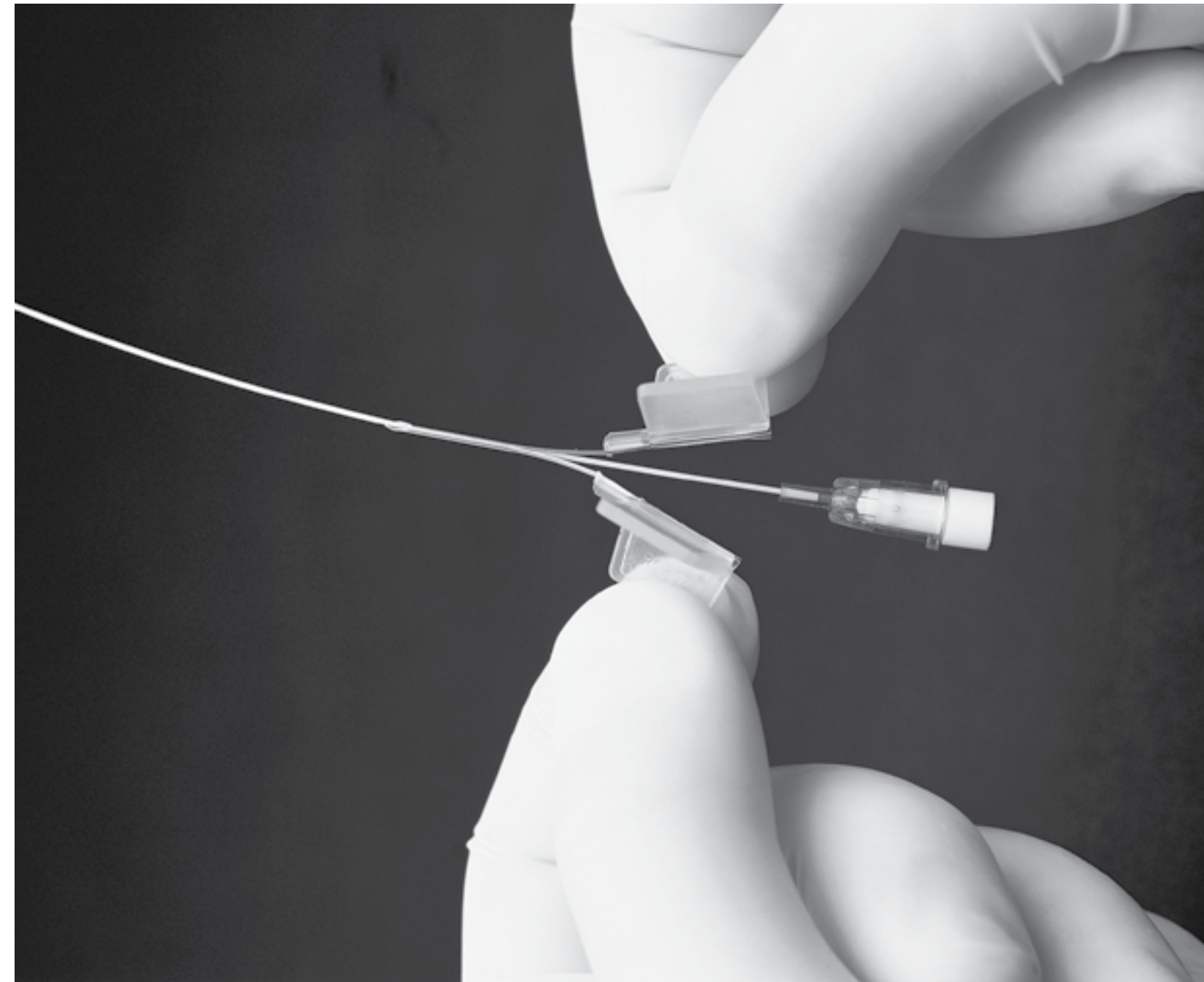
- RS-9294** **MICHEL** clip applying and removing forceps length 5"

- 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				





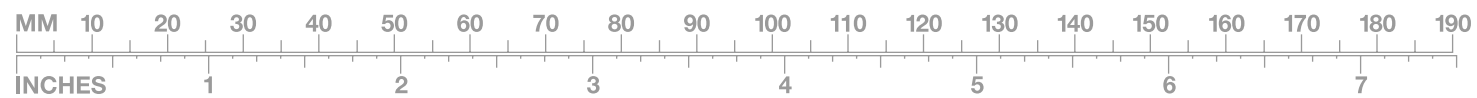
RS-4990
Vessel Cannulation Forceps
 for tubing of
 0.35mm OD
 length 131mm
 tip width 0.75mm
 tip diameter 0.35mm
 Material: INOX



RS-4991
Vessel Cannulation Forceps
 for tubing of
 0.5mm OD
 length 130mm
 tip width 0.9mm
 tip diameter 0.5mm
 Material: INOX



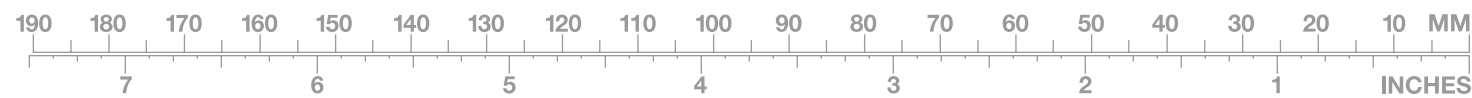
RS-4992
Vessel Cannulation Forceps
 for tubing of
 1.0mm OD
 length 128mm
 tip width 1.4mm
 tip diameter 1.0mm
 Material: INOX



RS-4927
Vessel Dilation Forceps
 length 120mm
 tip 0.20 x 0.16mm
 Material: INOX



RS-4929
Vessel Dilation Forceps
 length 115mm
 tip 0.20 x 0.16mm
 Material: INOX



- IN-10** OD Polyethylene Tubing, 10ft Lengths, 0.011" ID x 0.024"
- IN-10N** Intro needle, sterile, 1", 19G, 0.027" ID x 0.042" OD
- PN-7922** Infusion Cannula, blunt, 1", 30G, 0.006" ID x 0.012" OD
- IN-20** OD Polyethylene Tubing, 10ft Lengths, 0.015" ID x 0.043"
- IN-50N** Intro needle sterile, 1", 16G, 0.047" ID x 0.065" OD
- PN-7925** OD Infusion Cannula, blunt, 1", 27G, 0.0075" ID x 0.016"
- IN-50** Polyethylene Tubing, 10ft Lengths, 0.023" ID x .038" OD
- IN-50N** Intro needle, sterile, 1", 16G, 0.047" ID x 0.065" OD
- PN-7930** Infusion Cannula, blunt, 1", 24G, 0.0115" ID x 0.022"



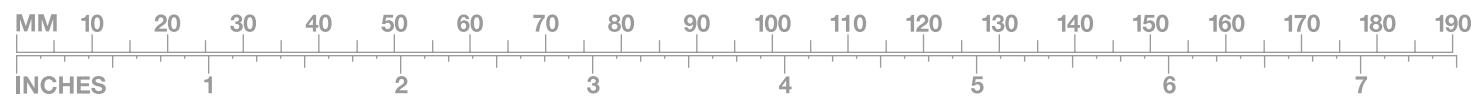
Not Actual Size



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



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



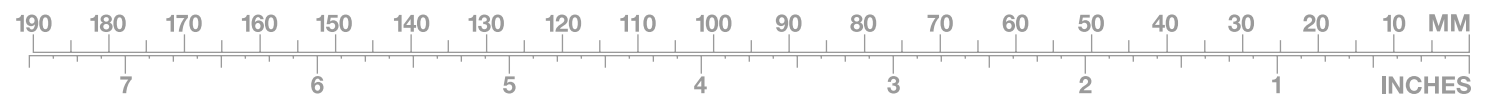
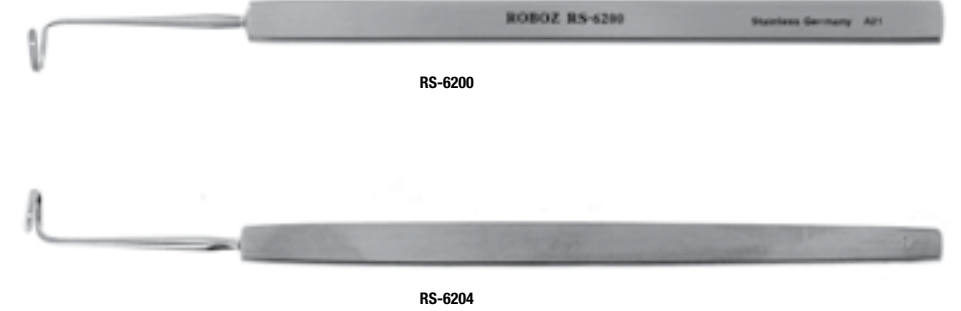
- IN-517** **Splitable Introducer Cannula**
17G x 22mm
OD 1.50mm
ID 1.34mm
red
Pack of 10



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



- Micro Ligature Needle**
length 4.75"
- RS-6200** blunt, left curve
- RS-6202** sharp, left curve
- RS-6204** blunt, right curve



32 ga micro injection needles uses:

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

Advantages:

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



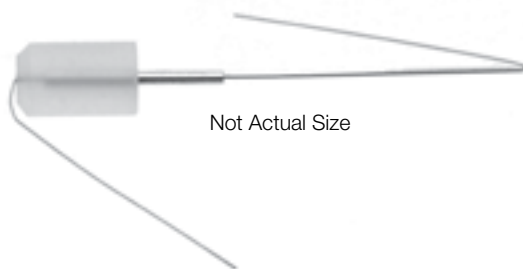
Micro Injection Needle
 .009" OD x .003" ID
 32G
 needle length 10mm
 use with IN-910

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



IN-910

- Syringe**
 plastic
 for use with IN-900
 and IN-905 needles
- IN-910** Volume 1mL
 - IN-920** Volume 10mL



Not Actual Size

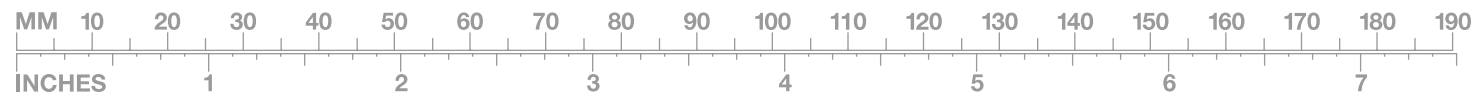
Micro Injection Needle
 needle length 12mm
 use with IN-950

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



IN-950

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



Specifications

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

IN-1000 Advance Infusion Pump

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

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

IN-1010 Advance Infusion Table

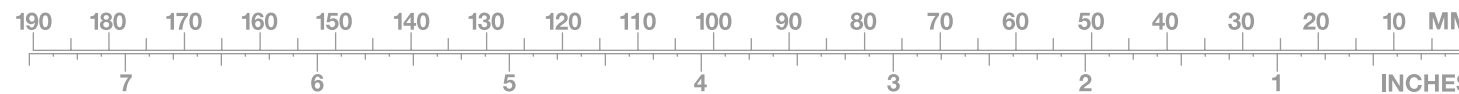
The **Advance Infusion Table** is the latest design in tail infusions for rats. This unique setup allows for tail infusions lasting up to three hours.

Features

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

Dimensions

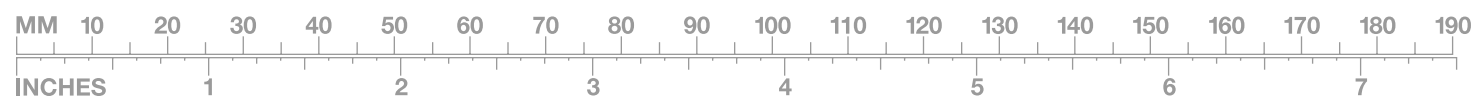
15.75" x 15.75" (40cm x 40cm) square table top
 Height with legs open, 6.5" (16.5cm)



Instrument Care and Handling

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
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3.33	.131	9	.354
3.5	.138	9.33	.367
3.67	.144	9.5	.374
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4.5	.177	10.33	.407
4.67	.184	10.67	.420
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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	
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3/32	2.38	19/32	15.08	3	7.62	3	1.1811
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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				





U.L. Listed

GERMINATOR™ 500 THE GERM TERMINATOR DRY STERILIZER

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

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

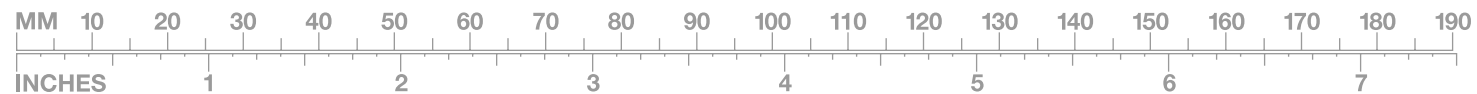
NEW FEATURES



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

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

US Patent 6,500,394



SENTRY ULTRASONIC SURGICAL INSTRUMENT CLEANER

Clean your instruments easily with a high-power ultrasonic cleaner



The Sentry Ultrasonic Cleaner is a high efficiency cleaner specially developed to clean surgical instruments. The Sentry Ultrasonic Cleaner is a quick and effective way to clean lab tools: 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

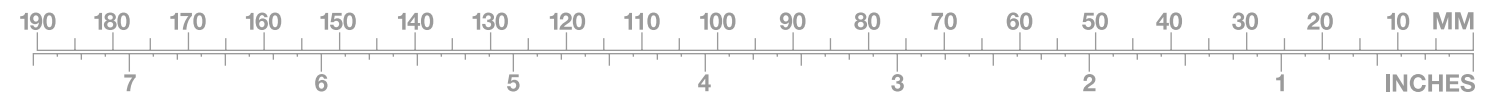
Specifications:

Tank Size: 25 x 150 x 80 mm (L x W x H)
Tank Capacity: 2500 ml
 MAX FILL - 2100 ml, MIN - 600 ml
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:

Tank Size: 32.3 x 20.5 x 9.9cm (L x W x H)
Tank Capacity: 6000 ml (1.6 gal)
 MAX FILL - 5000 ml, MIN - 3350 ml
Accessories: Stainless steel tray, power cord
5-Cycle Digital Timer: 1-30min full range timer
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:

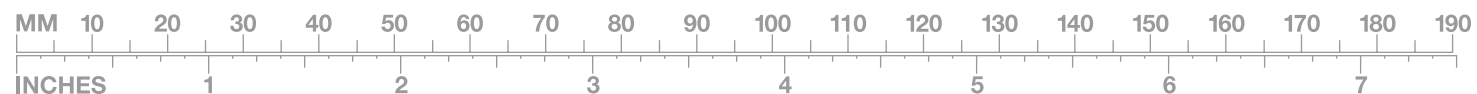
Chamber Volume: 8L
Max. Pressure: 29 PSI/2 Bar
Chamber Dimensions: 6.7 x 12.5" (17 x 31 cm)
Tray Dimensions: 4.75 x 9.75" (12 x 24.8 cm)
Exterior Dimensions: 21 x 13.4 x 13.5" (53 x 34 x 34.5 cm)
Weight: 76 Lb. (34.5kg)
Electrical: 115V, 60Hz, 950W

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

Stainless Forceps Jar

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

Silicon instrument cup

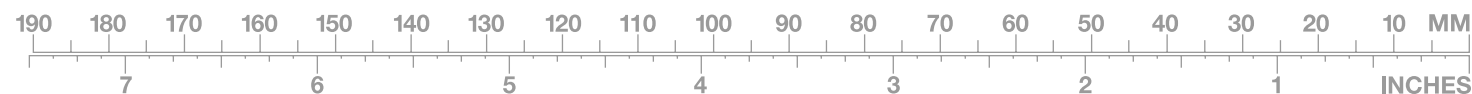
- RS-9908** 4" deep
- RS-9909** 2.5" deep



RS-9907



RS-9908



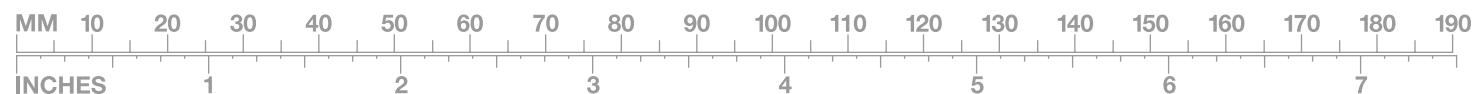


Provides excellent steam sterilization without moisture build up.
RT-1402S, RT-1400S and RT-1400L Shown

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.

- RT-1350S** Instrument Tray
10 x 6.5 x 0.75"
solid
- RT-1351S** Instrument Tray
13.5 x 9.75 x 0.75"
solid
- RT-1400S** Instrument Tray
9" x 5" x 2"
solid tray
- RT-1400P** perforated tray
- RT-1400L** lid
- RT-1401S** Instrument Tray
10 x 6.5 x 2"
solid tray
- RT-1401P** perforated tray
- RT-1401L** lid

- RT-1402S** Instrument Tray
12.25 x 7.75 x 2.25"
solid tray
- RT-1402P** perforated tray
- RT-1402L** lid



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

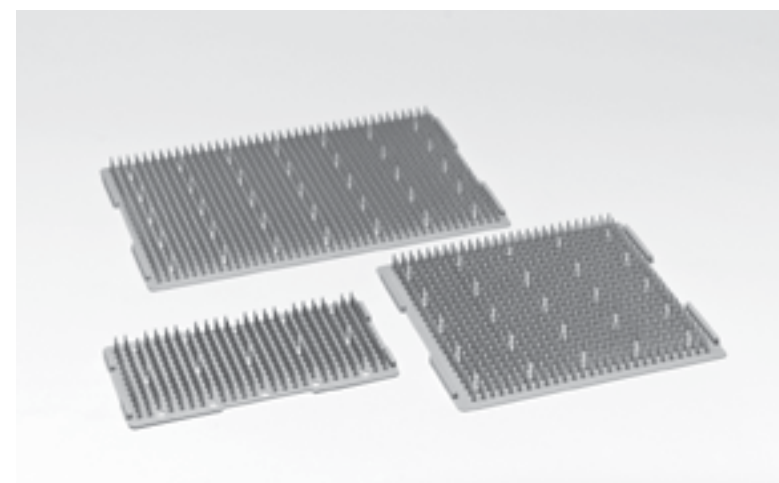
- Interlocking silicone keep instruments in place
- Available with silicone mat, perfect for micro dissecting instruments
- Removable cover for easy cleaning

- RS-9900** 8" x 8.5" x 1.25"
with silicone strips
- RS-9900A** 8" x 8.5" x 1.25"
with silicone strips and mat
- RS-9902** 8" x 12.5" x 1.25"
with silicone strips
- RS-9902A** 8" x 12.5" x 1.25"
with silicone strips and mat

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

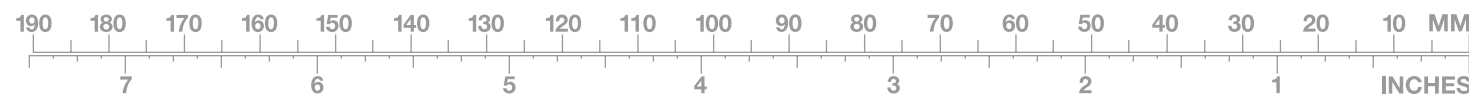
- Light Weight
- Interlocking silicone strips keep instruments in place
- Made of durable Ultem 1000 Plastic

- RS-9912** 8" x 4" x 1.25"
with silicone strips
- RS-9910** 8.25" x 8.25" x 1.25"
with silicone strips
- RS-9913** 8.25" x 15" x 1.25"
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.

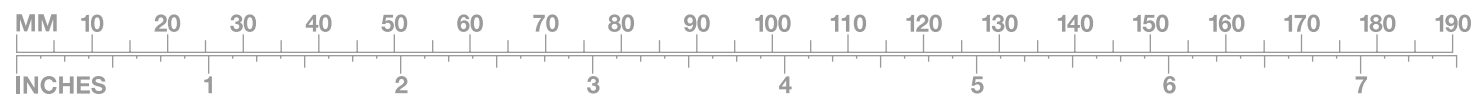
- RS-9904** 8" x 4"
silicone mat
- RS-9901** 8" x 8.5"
silicone mat
- RS-9903** 8.25" x 15"
silicone mat





IC-3000 - Instrument Care and Maintenance Kit

Part#	Description	Length	Size	Sales Unit	Features
Care and Maintenance Products					
RS-9960	Small Instrument Roll-Pak			EA	Holds Up To 5 Instruments
EC-1000	Enzymatic Instrument Cleaner			EA	8oz. Bottle, Concentrated
IL-1000	Instrument Lubricant (Instrument Milk)			EA	8oz. Bottle
IC-1000	Instrument Cleaner			EA	8oz. Bottle, Concentrated
IC-1002	Micro-Fiber Brushes	4"	2mm Head Size	pack of 100	non-absorbant, lint-free fibers
IN-1001	Double-Sided Brushes	7"		pack of 3	nylon
IN-5	Sharpening Stone	3"		EA	Fine 350 grit, 3 grooved sides, 1 flat side
IT-1000	Vinyl Instrument Tip Protectors			pack of 20	Assortment Pack, 5 of each size
Instrument Care And Maintenance Kit					
IC-3000		N/A	N/A	N/A	Includes one each of above items
Vinyl Instrument Tip Protectors					
			ID	OD	
IT-1062		0.75"	0.062"	0.12"	grey, pack of 20
IT-1080		0.75"	0.08"	0.14"	white, pack of 20
IT-1109		0.75"	0.109"	0.18"	blue, pack of 20
IT-1187		1"	0.187"	0.27"	black, pack of 20



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

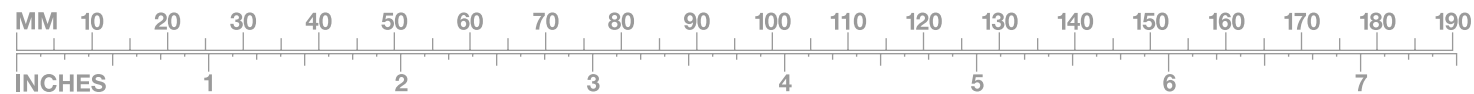
clip easily on a pair of glasses
(glasses not provided)
double hinge, flip-up design

- 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

- ML-655** 3X magnification
340mm working distance
- ML-657** 3X 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
420mm working distance



Loupes On Sport Frame
double hinge, flip-up design

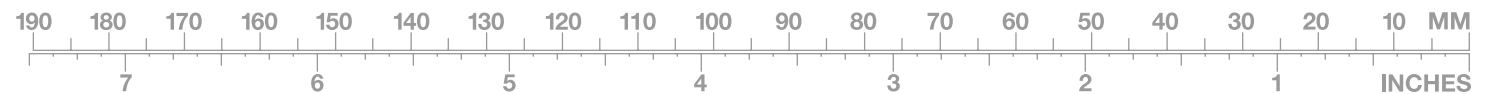
- ML-631** 4X magnification
340mm working distance
- ML-633** 4X magnification
420mm working distance
- ML-641** 5X magnification
340mm working distance
- ML-643** 5X magnification
420mm working distance



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

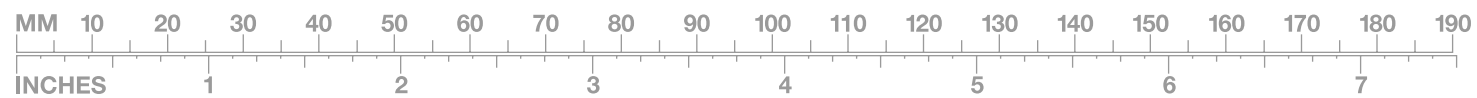
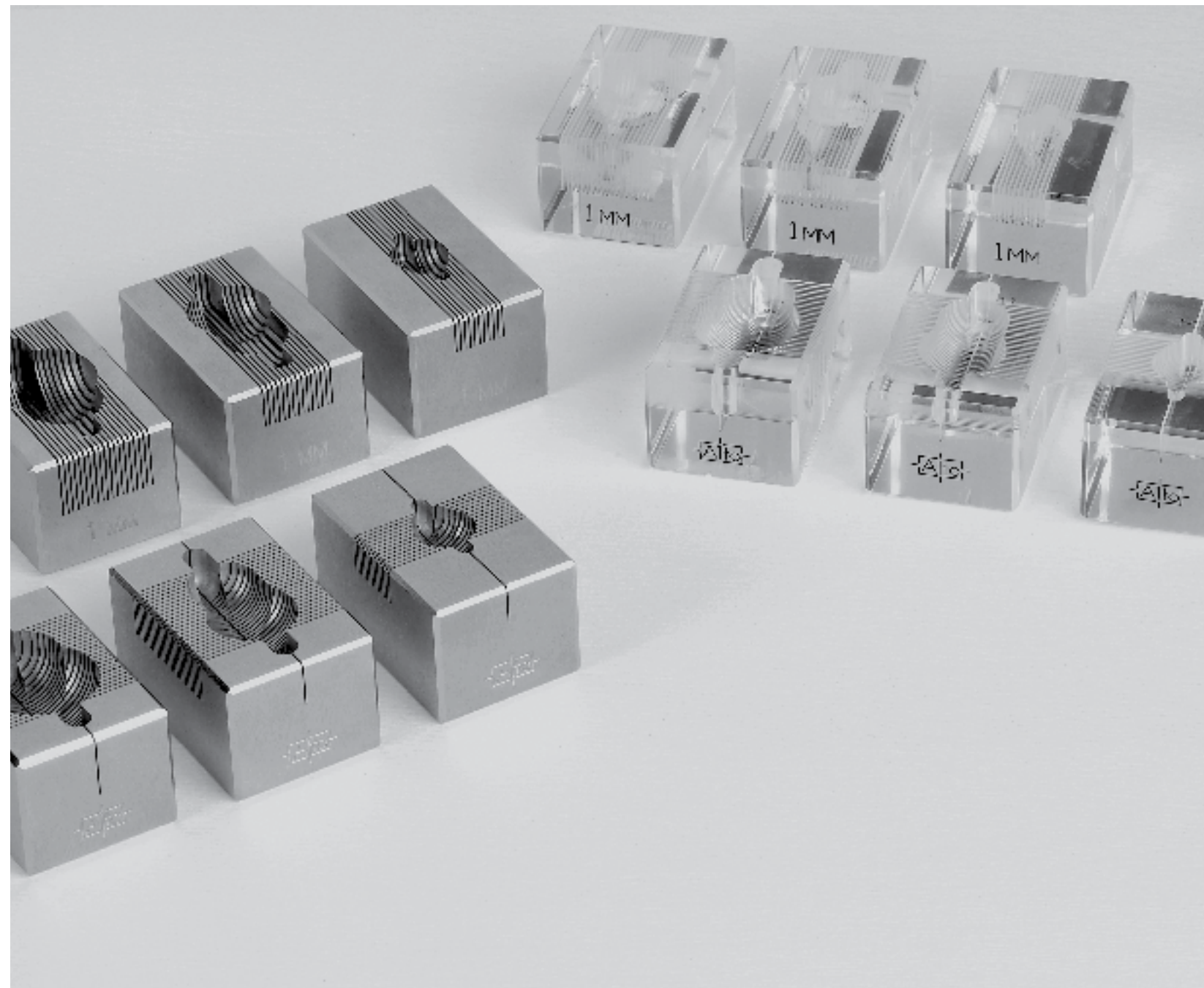
ML-603 Show (loupes not included)

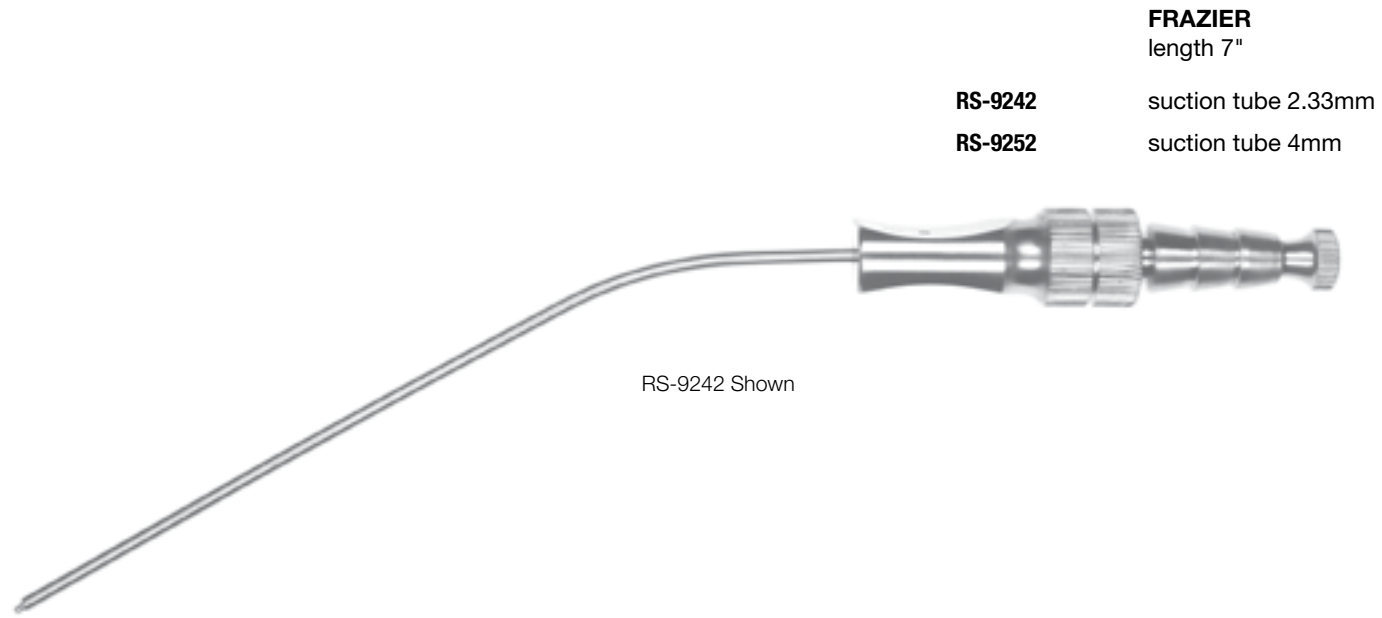


ML-151

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"



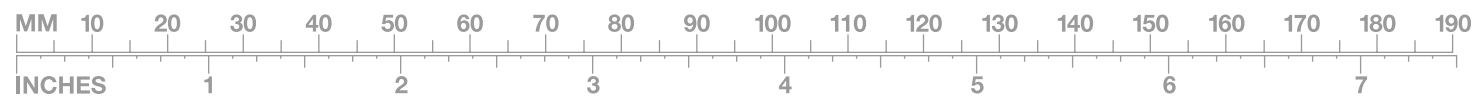


RS-9242 Shown

FRAZIER
length 7"
RS-9242 suction tube 2.33mm
RS-9252 suction tube 4mm

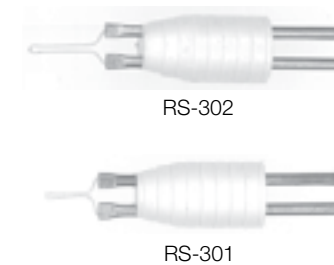


ST-1538 **Durapore™ Surgical Tape**
0.5" x 10 yd,
pack of 24 rolls



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

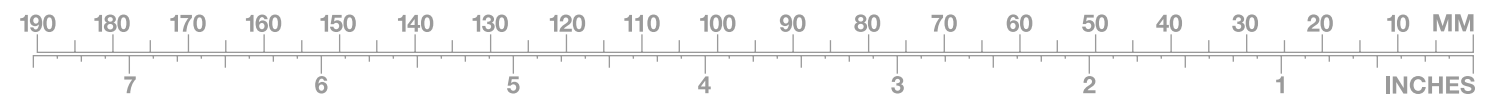
The GEMINI CAUTERY SYSTEM is the perfect tool for your cauterizing needs. The unique tip sizes combined with two different operating temperatures allow for maximum versatility. The convenient battery spacer converts the hand piece from high temperature to low temperature. Average temperature with two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

A-5 Clipper With Detachable Blade

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

A-5 Replacement Blades

RC-5910 medium-general
hair length 1/16"
size 10
RC-5911 for clipping surgical area
hair length 1/100"
size 40
RC-5912 for clipping surgical area
hair length 1/125"
size 50



RC-5920 Spray Disinfectant, 14 oz.
RC-5921 Spray Lubricant, 16 oz.

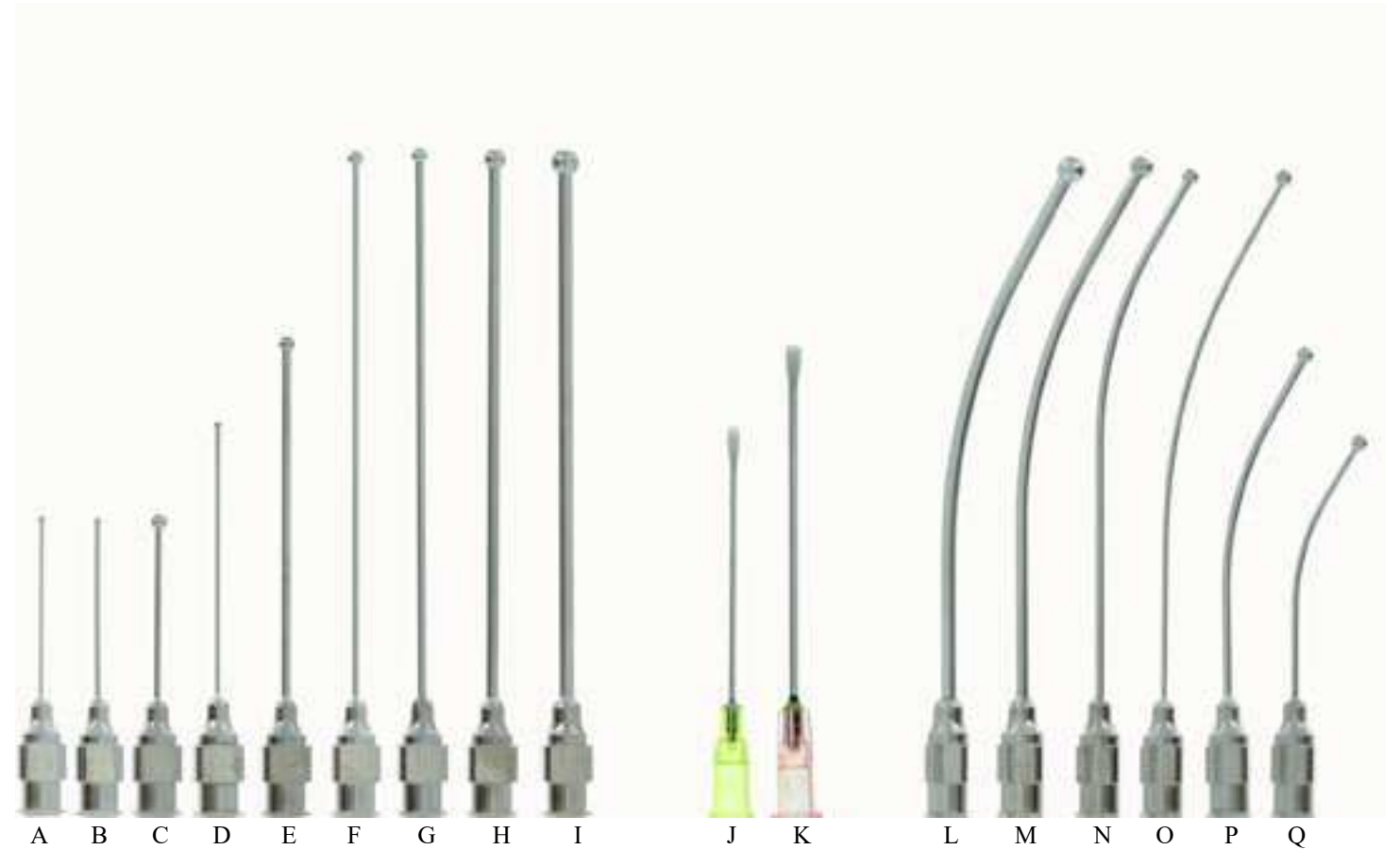
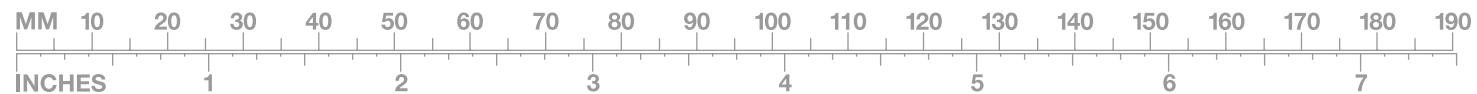
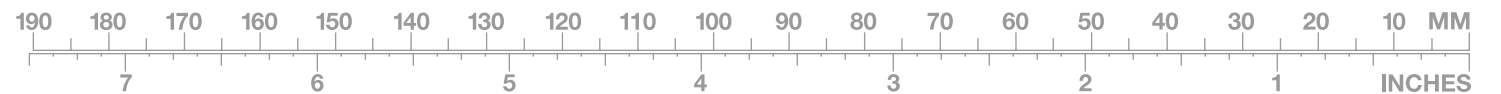
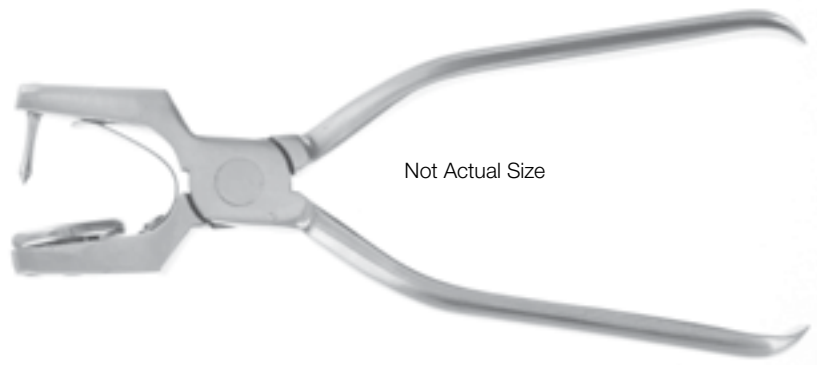


Image	Part#	Description	Length	Gauge	Sales Unit	Features
Stainless Steel Feeding Needles, Straight						
A	FN-7900		1"	24G	EA	1.25mm ball diameter
B	FN-7901		1"	22G	EA	1.25mm ball diameter
C	FN-7920		1.5"	22G	EA	1.25mm ball diameter
D	FN-7921		1"	20G	EA	2.25mm ball diameter
E	FN-7903		3"	20G	EA	2.25mm ball diameter
F	FN-7905		2"	18G	EA	2.25mm ball diameter
G	FN-7906		3"	18G	EA	2.25mm ball diameter
H	FN-7908		3"	16G	EA	3mm ball diameter
I	FN-7909		3"	14G	EA	4mm ball diameter
Disposable Feeding Needles, Straight						
J	FN-9921		1.5"	20G	Pk/5	plastic ball and hub, malleable cannula
K	FN-9918		2"	18G	Pk/5	plastic ball and hub, malleable cannula
Stainless Steel Feeding Needles, Curved						
Q	FN-7910		1.5"	20G	EA	2.25mm ball diameter
O	FN-7911		3"	20G	EA	2.25mm ball diameter
P	FN-7913		2"	18G	EA	2.25mm ball diameter
N	FN-7914		3"	18G	EA	2.25mm ball diameter
M	FN-7916		3"	16G	EA	3mm ball diameter
L	FN-7917		3"	14G	EA	4mm ball diameter





65-9800 **Easy Grip Ear Punch**
1.5mm and 2mm
hole sizes
length 6"



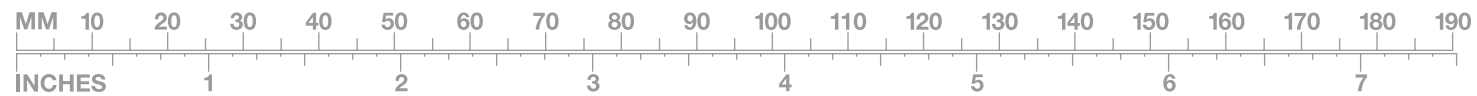
65-9900 **Ear Punch**
2mm
length 2"



65-9901 **Ear Punch**
length 4"
65-9902 1.5mm
2mm



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-5475 **Renal Artery Clamps**
4mm
2.5" length



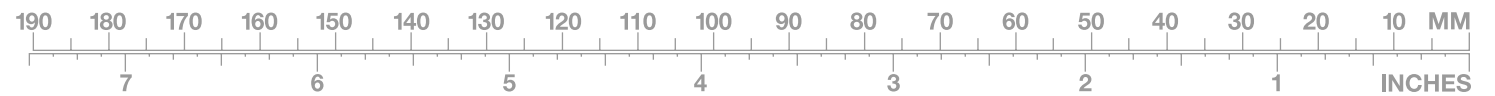
37-5950 **Chung Hook**
20mm length
3mm hook



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"





Brain Matrices, Stainless Steel, 1mm Sections

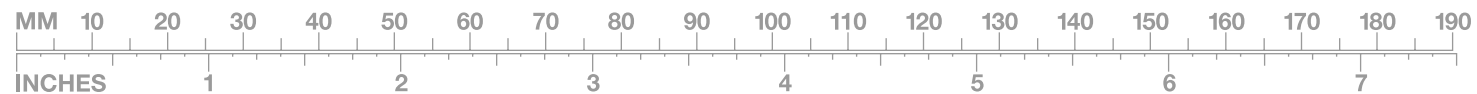
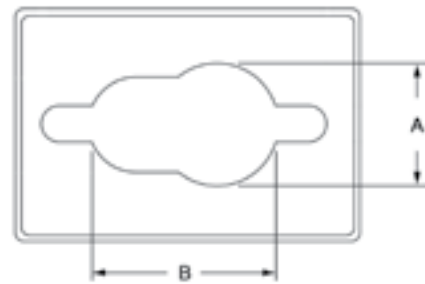
Part#	Description	Dimension A (mm)	Dimension B (mm)	Cavity Depth (mm)
SA-2175	Mouse Coronal	11.1	12.2	7.4
SA-2275	Mouse Sagital	11.1	12.2	7.4
SA-2130	Small Rat Coronal	15.9	23.8	7.6
SA-2230	Small Rat Sagital	15.9	23.8	7.6
SA-2160	Large Rat Coronal	19.8	24.7	10.9
SA-2260	Large Rat Sagital	19.8	24.7	10.9

Brain Matrices, Stainless Steel, 0.5mm Sections

Part#	Description	Dimension A (mm)	Dimension B (mm)	Cavity Depth (mm)
SA-2165	Mouse Coronal	11.1	12.2	7.4
SA-2265	Mouse Sagital	11.1	12.2	7.4
SA-2120	Small Rat Coronal	15.9	23.8	7.6
SA-2220	Small Rat Sagital	15.9	23.8	7.6
SA-2150	Large Rat Coronal	19.8	24.7	10.9
SA-2250	Large Rat Sagital	19.8	24.7	10.9

Brain Matrices, Acrylic, 1mm Section

Part#	Description	Dimension A (mm)	Dimension B (mm)	Cavity Depth (mm)
AL-1175	Mouse Coronal	11.1	12.2	7.4
AL-1275	Mouse Sagital	11.1	12.2	7.4
AL-1130	Small Rat Coronal	15.9	23.8	7.6
AL-1230	Small Rat Sagital	15.9	23.8	7.6
AL-1160	Large Rat Coronal	19.8	24.7	10.9
AL-1260	Large Rat Sagital	19.8	24.7	10.9



Heart Matrices, Stainless Steel, 1mm Sections

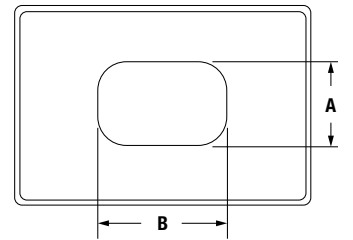
Part#	Description	Dimension A (mm)	Dimension B (mm)	Cavity Depth (mm)
SA-4130	Rat	19.9	N/A	9.7

Heart Matrices, Stainless Steel, 0.5mm Sections

Part#	Description	Dimension A (mm)	Dimension B (mm)	Cavity Depth (mm)
SA-4140	Mouse	12.7	N/A	4.8
SA-4120	Rat	19.9	N/A	9.7

Heart Matrices, Acrylic, 1mm Sections

Part#	Description	Dimension A (mm)	Dimension B (mm)	Cavity Depth (mm)
AL-3130	Rat	19.9	N/A	9.7

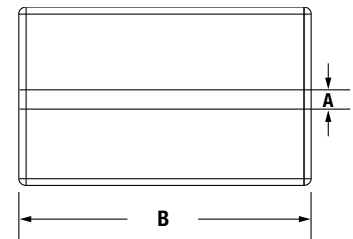


Spinal Cord Matrices, Stainless Steel, 1mm Sections

Part#	Description	Dimension A (mm)	Dimension B (mm)	Cavity Depth (mm)
SA-5100	Mouse	2.5	32	5

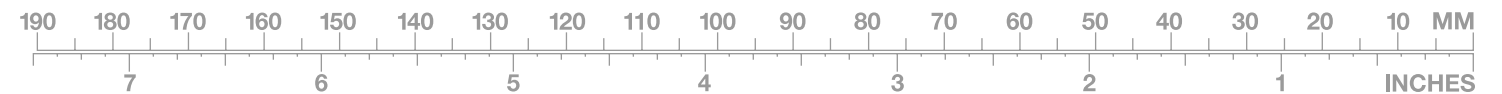
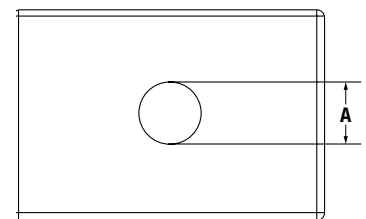
Spinal Cord Matrices, Stainless Steel, 0.5mm Sections

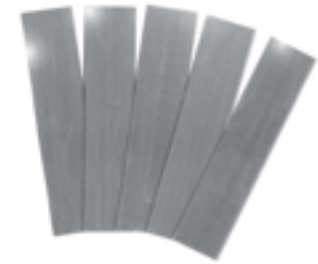
Part#	Description	Dimension A (mm)	Dimension B (mm)	Cavity Depth (mm)
SA-5110	Mouse	4	50	5
SA-5120	Rat	4	96	5



Tumor Matrices, Stainless Steel, 0.5mm Sections

Part#	Description	Dimension A (mm)	Dimension B (mm)	Cavity Depth (mm)
SA-6110	Small	8	8	4.8
SA-6100	Large	12	12	4.8



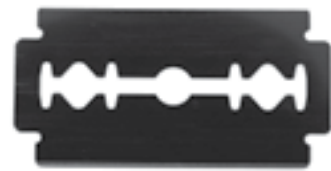


Not Actual Size

RS-9885

Matrix Blades

Alto Matrix
Blades,
0.22mm thick,
3" x 0.75"
pack of 25



RS-9886

Double edge blade

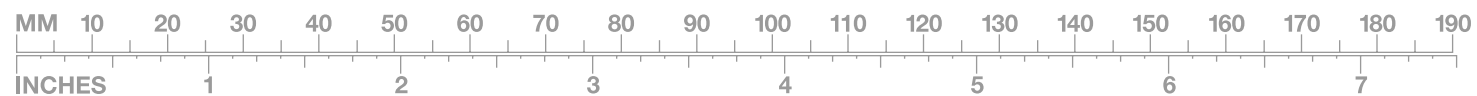
0.1mm thick
pack of 10
for use with 0.5mm
matrices



RS-9887

Alto Matrix Blades

0.2mm thick
12cm x 2cm
pack of 20
for use with 1mm or
0.5mm matrices



Ideal Micro Drill - available in various colors for a limited time, see options below and color photo inside front cover

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:

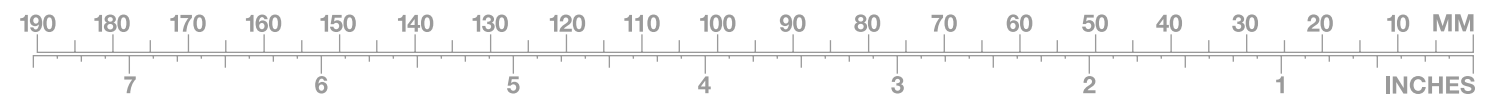
- Rechargeable
- Light-weight design
- No special tools needed to change burs
- Hard plastic case with die-cut foam for convenient storage
- Excellent balance and handling
- One year warranty
- Variety of interchangeable burs

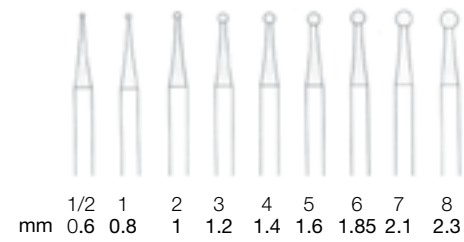
Technical Data:

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

Ideal Micro Drill Color Options

Part#	Region	Body Color	Top Cap Color	Bottom Cap Color	Button
RS-6300A	US	Silver	Silver	Silver	Black
RS-6300B	US	Blue	Silver	Silver	Orange
RS-6300C	US	Silver	Black	Black	Black
RS-6300D	US	Silver	Silver	Silver	Red
RS-6300F	US	Silver	Aqua	Aqua	Orange
RS-6300G	US	Aqua	Silver	Silver	Orange
RS-6300H	US	Black	Silver	Silver	White
RS-6300EU	EU	Blue	Blue	Blue	Yellow
RS-6300UK	UK	Silver	Blue	Blue	Red



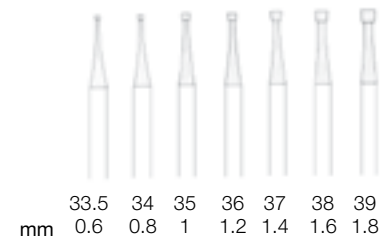


Please specify size when ordering

RS-6280C

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

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



Please specify size when ordering

RS-6282C

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

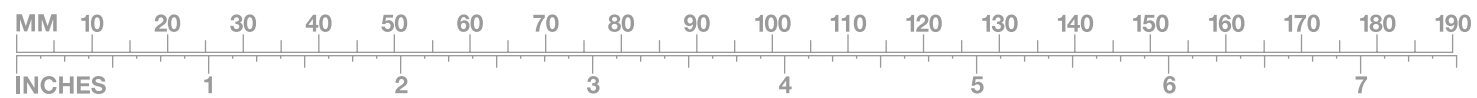


RS-6308 Shown

RS-6306
RS-6308
RS-6310

Trephine
micro dissecting
hand piece
carbide
2.3mm shaft diameter

tip diameter 1.8mm
tip diameter 2.3mm
tip diameter 2.7mm





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.

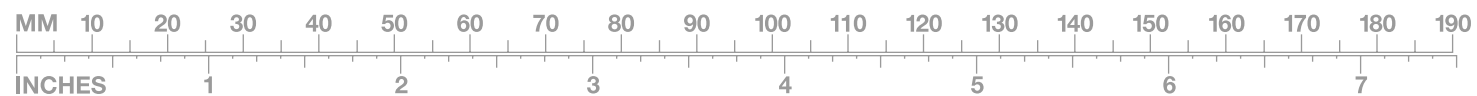
For instruments with Tungsten Carbide inserts (Needle Holders, Scissors, Tissue Forceps), we do not recommend use of solutions containing Benzyl Ammonium Chloride which will destroy the Tungsten Carbide Inserts.



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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37-7514	125	IC-1001	164	ML-674	166	RS-4962	3	RS-5075	13	RS-5206	17
37-7515	125	IC-1002	164	PN-7922	152	RS-4964	3	RS-5079	13	RS-5210	17
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37-7546	125	IN-10	152	PN-7930	152	RS-4968	4	RS-5095	14	RS-5228	18
65-7480	39	IN-1000	155	PN-7933	152	RS-4970	4	RS-5096	14	RS-5229	18
65-7487	39	IN-1010	155	PN-7936	152	RS-4972	4	RS-5097	15	RS-5230	18
65-7490	39	IN-10N	152	PN-7939	152	RS-4974	4	RS-5100	15	RS-5231	18
65-9900	174	IN-20	152	PN-7941	152	RS-4976	6	RS-5101	15	RS-5232	18
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65-9902	174	IN-50	152	RC-5902RB	171	RS-4980	8	RS-5103	15	RS-5234	19
65-9910	174	IN-50N	152	RC-5903	172	RS-4982	8	RS-5110	12	RS-5235	19
65-9911	174	IN-517	153	RC-5903-RB	172	RS-4984	7	RS-5111	12	RS-5236	19
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AL-1175	176	IN-920	154	RC-5911	172	RS-5010	7	RS-5135	16	RS-5244	19
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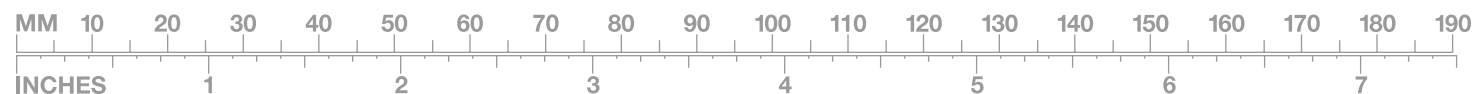
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