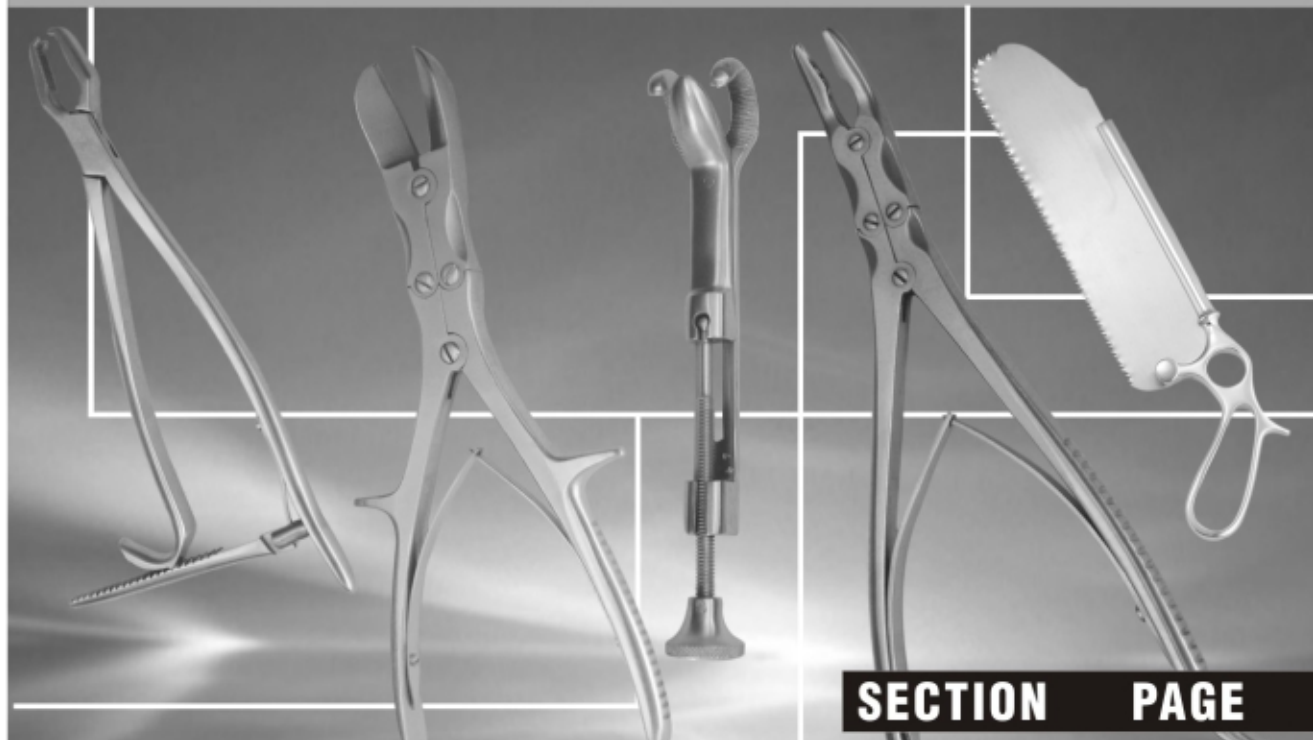


Orthopaedic Instruments

.....310 To 392



Bone Punches And Rongeurs

22

310-318

**Amputation, Elevators, Raspatories, Bone Levers
Bone Files And Curettes**

23-24

319-347

**Mallets, Tampers, Chisels, Gauges, Bone Holding, Rongeurs
& Cutting Forceps, Meniscus Instruments**

25-26

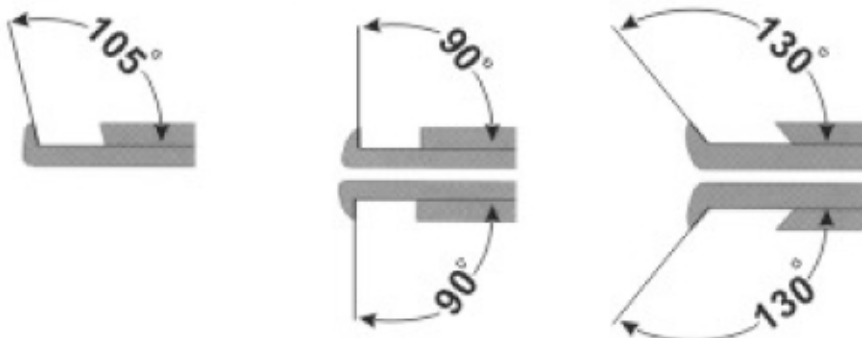
348-379

Wire Extension, Finger Nail instruments

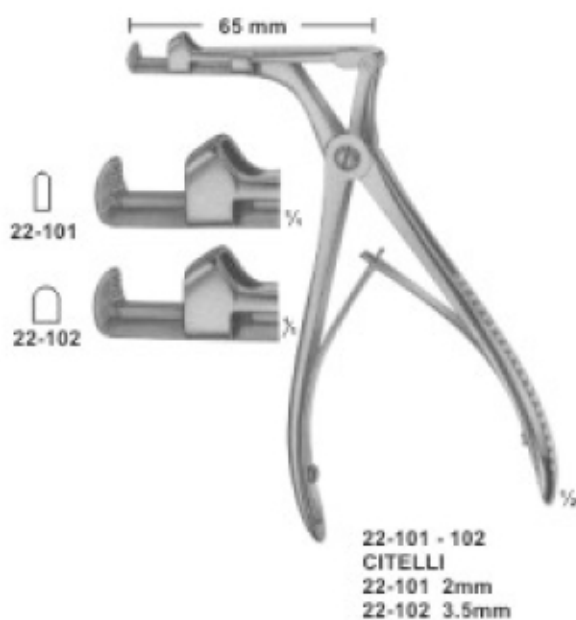
27

380-392

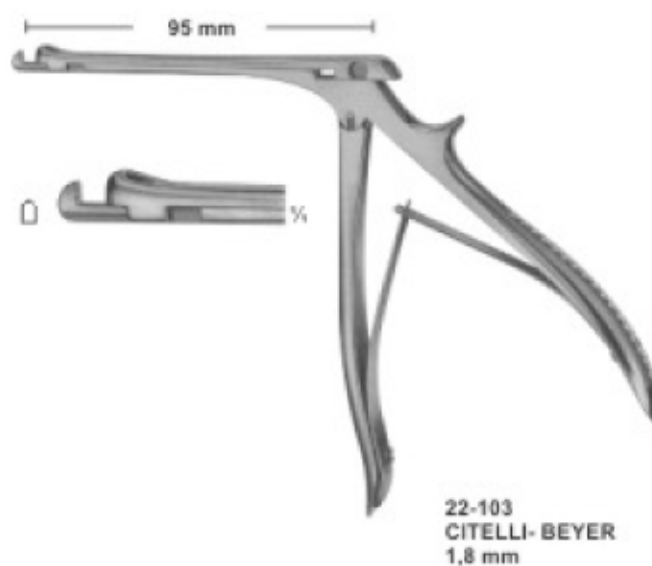
Angled positions for punchus



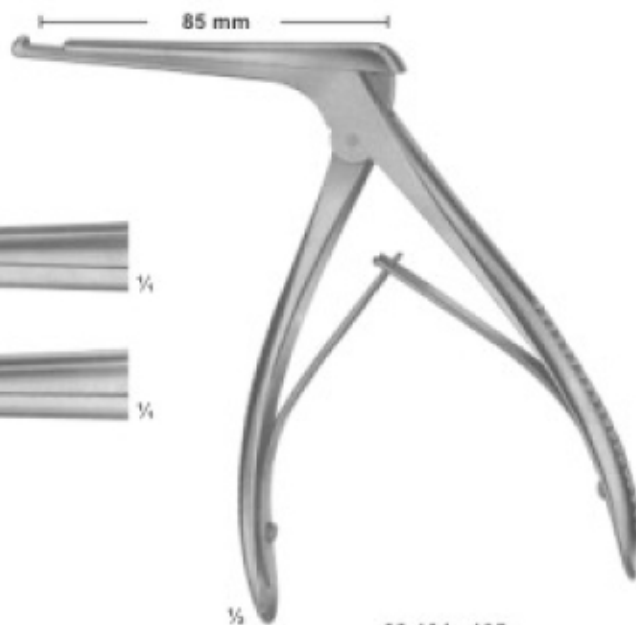
90° upwards cutting



90° upwards cutting



90° upwards cutting



22-104
4 mm

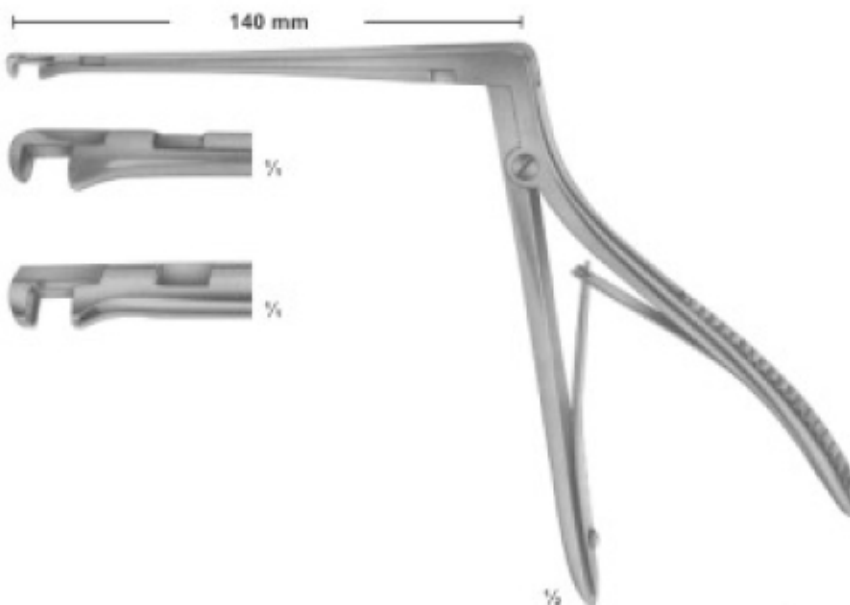


22-105
5 mm



22-104 - 105
KERRISON

90° upwards cutting



22-106
3,3 mm



22-107
4,0 mm



22-106 - 107
HAJEK-KOFLER

130° upwards cutting

KERRISON-JACOBY

22-108
1 mm



FERRIS-SMITH-KERRISON

22-109
2 mm



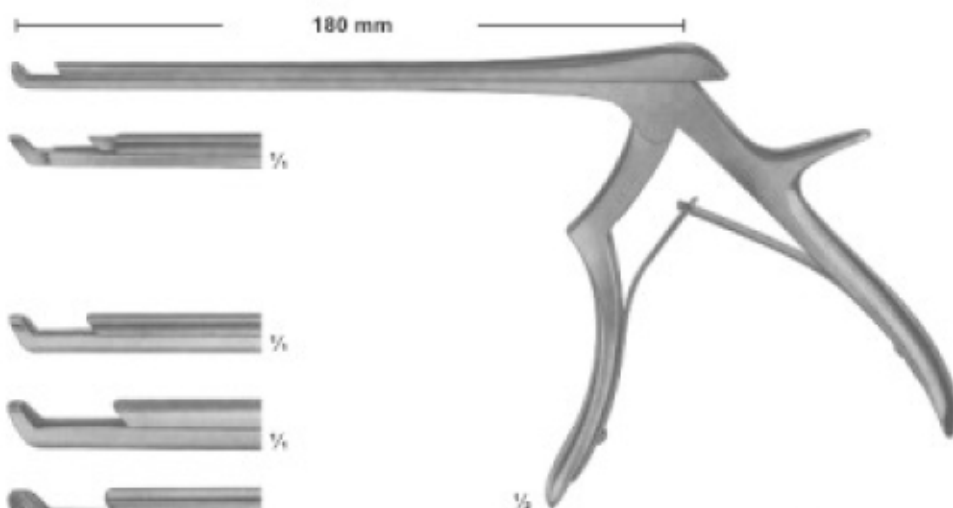
22-110
3 mm



22-111
4 mm



22-112
5 mm



90° upwards cutting

KERRISON-JACOBY

22-113
1 mm



22-114
2 mm



FERRIS-SMITH-KERRISON

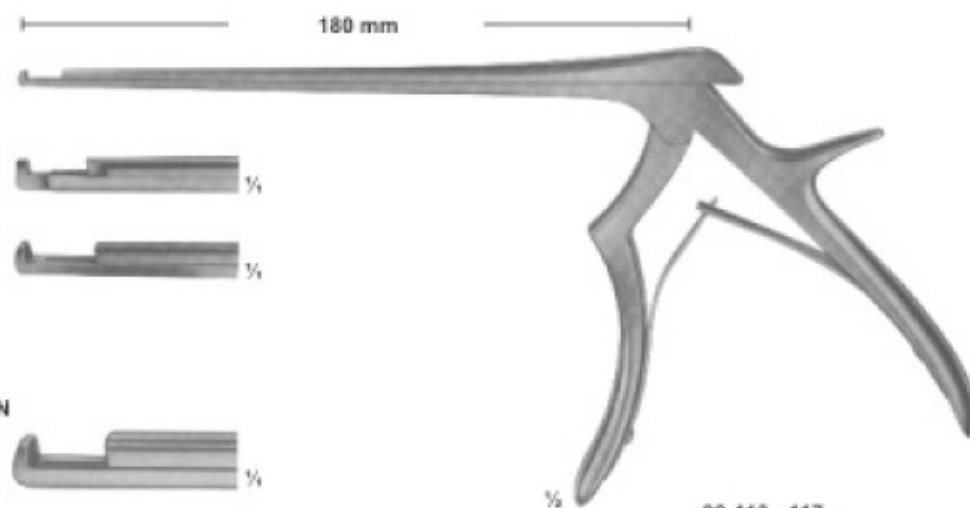
22-115
3 mm



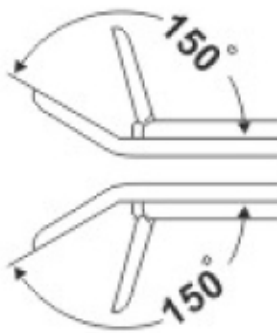
22-116
4 mm



22-117
5 mm



Angled positions for rongeurs



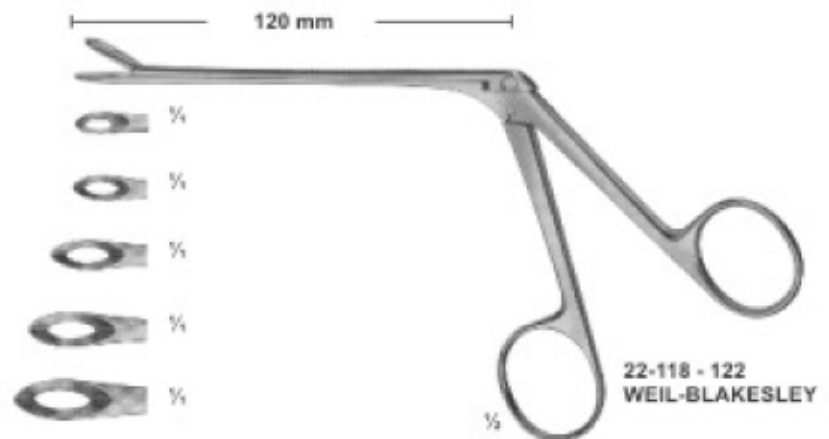
22-118
3,0 mm

22-119
3,6 mm

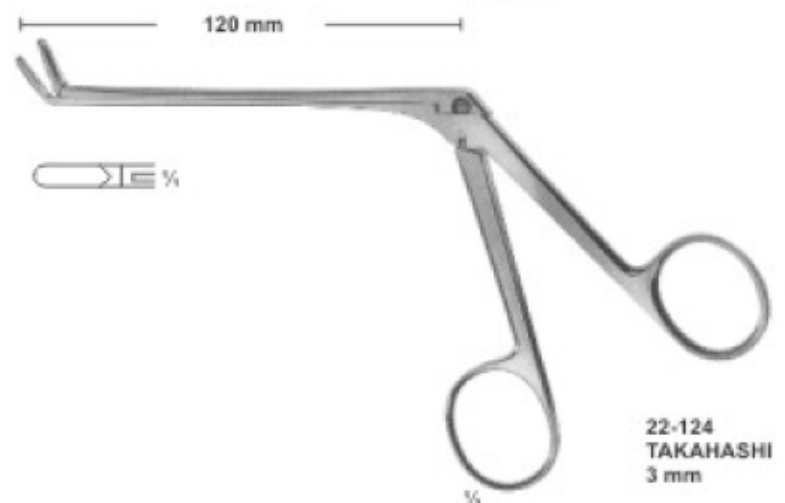
22-120
4,2 mm

22-121
4,8 mm

22-122
5,8 mm



130°



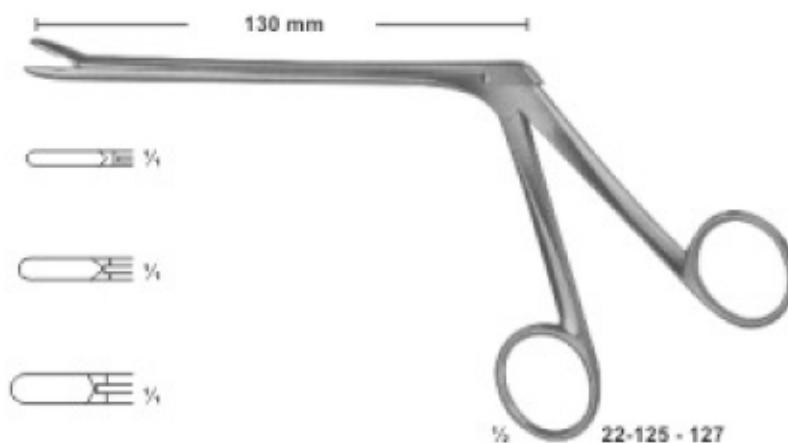
LOVE-GRUENWALD

22-125
2 X 10 mm

22-126
3 X 10 mm

SPURLING

22-127
4 X 10 mm

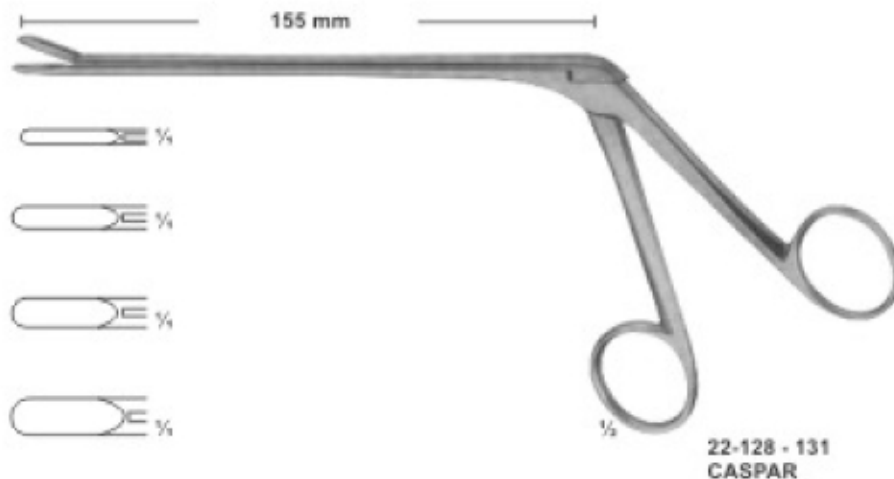


22-128
2 mm

22-129
3 mm

22-130
4 mm

22-131
5 mm

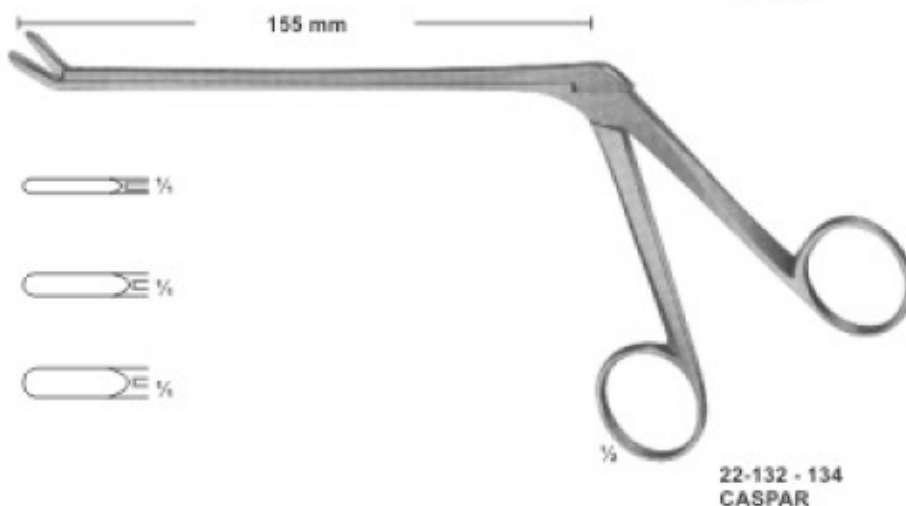


150°

22-132
2 mm

22-133
3 mm

22-134
4 mm



150°

Lower part of jaws movable

22-135
2 mm

22-136
3 mm

22-137
4 mm



22-135 - 137
CASPAR

Length of shaft 140 mm	Length of shaft 160 mm	Length of shaft 185 mm	size of jaws
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22-138	22-143	22-148	2 X12 mm
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22-139	22-144	22-149	3 X12 mm
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22-140	22-145	22-150	4 X14 mm
--------	--------	--------	----------

22-141	22-146	22-151	5 X14 mm
--------	--------	--------	----------

22-142	22-147	22-152	6 X16 mm
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22-138 - 152
CASPAR

150°

315

Length of shaft 140 mm	Length of shaft 160 mm	Length of shaft 185 mm	size of jaws
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22-153	22-156	22-159	3 X12 mm
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22-154	22-157	22-160	4 X14 mm
--------	--------	--------	----------

22-155	22-158	22-161	5 X14 mm
--------	--------	--------	----------

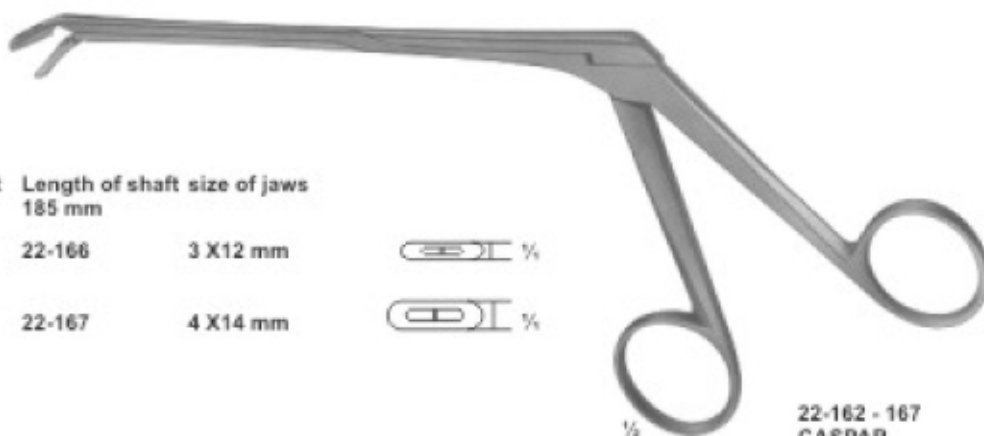


22-153 - 161
CASPAR

150°

Lower part of jaw movable

Length of shaft 140 mm	Length of shaft 160 mm	Length of shaft 185 mm	size of jaws
22-162	22-164	22-166	3 X 12 mm
22-163	22-165	22-167	4 X 14 mm

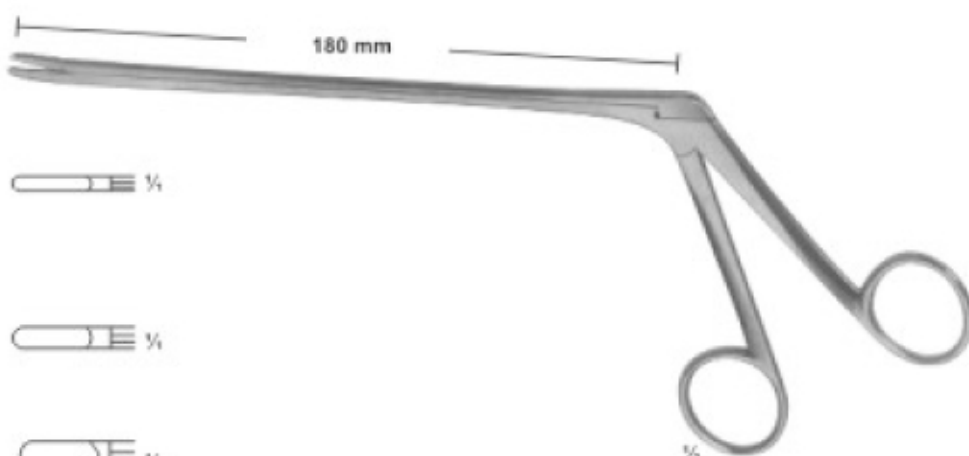
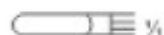


22-162 - 167
CASPAR

22-168
2 X 10 mm
CUSHING

22-169
3 X 10 mm
LOVE-GRUENWALD

22-170
4 X 10 mm
SPURLING

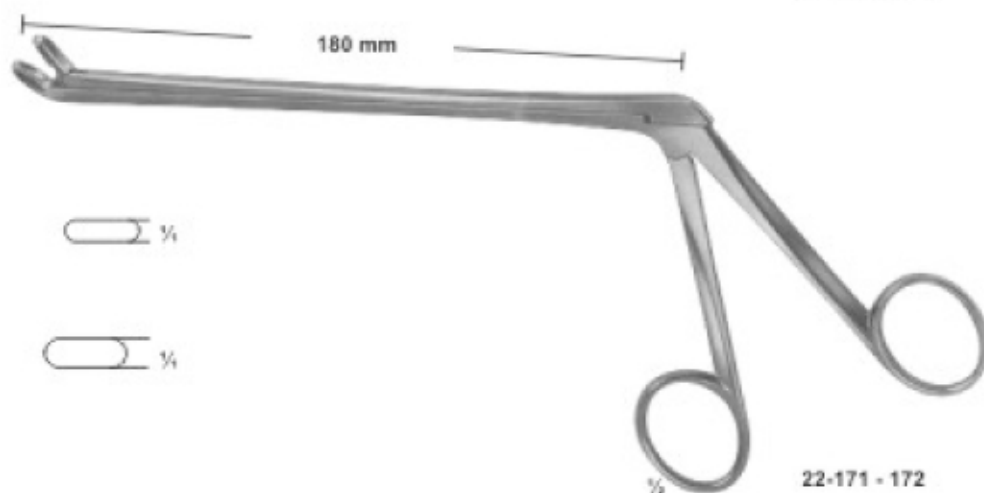


22-168 - 170

150°

22-171
3 X 10 mm
LOVE-GRUENWALD

22-172
4 X 10 mm
SPURLING



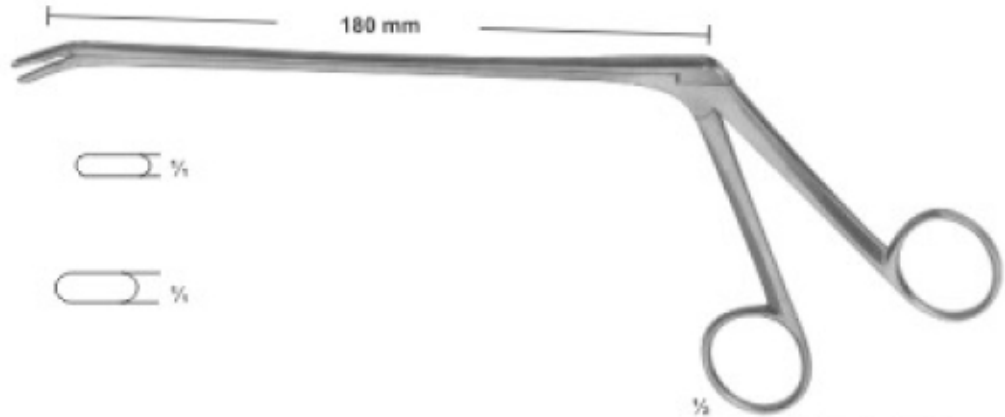
22-171 - 172

150°

Upper part of jaw
movable

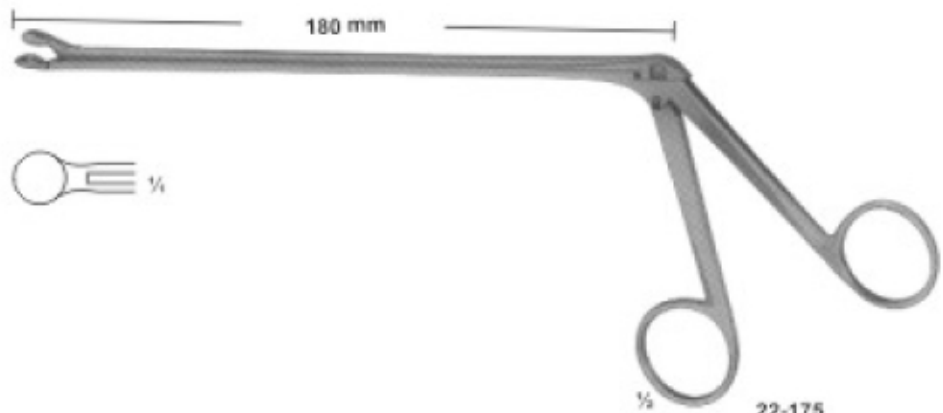
22-173
3 X 10 mm
LOVE-GRUENWALD

22-174
4 X 10 mm
SPURLING



22-173 - 174

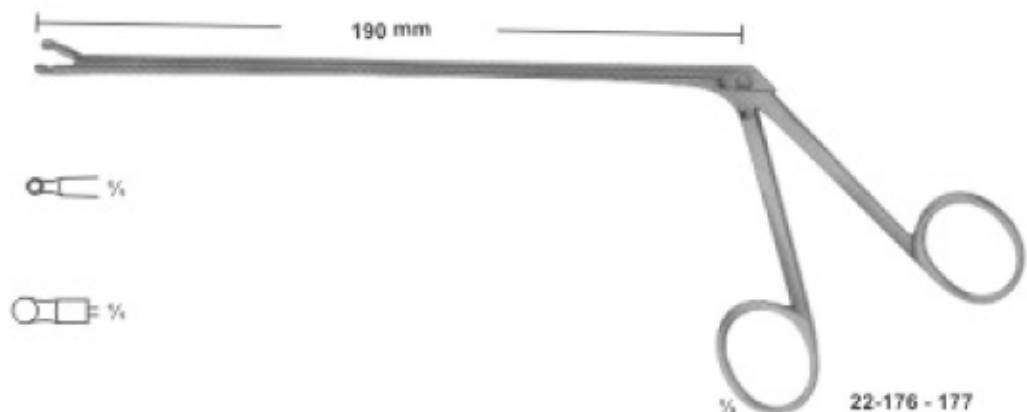
22-175
Ø 7 mm



22-175
OLDBERG

18-176
YASARGIL
Ø 2,2 mm

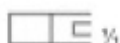
18-177
YASARGIL
Ø 3,5 mm



22-176 - 177

145 mm

22-178
4 mm



Osteophyte Rongeur

180 mm

22-178
CASPAR

22-179
4 mm



Osteophyte Rongeur

Rongeurs

318

22-179
CASPAR

200 mm

22-180
5,5 mm



Very Heavy Pattern

22-180
WAGNER



ADSON
23-101
15 cm
Drill guide



23-102
14 cm



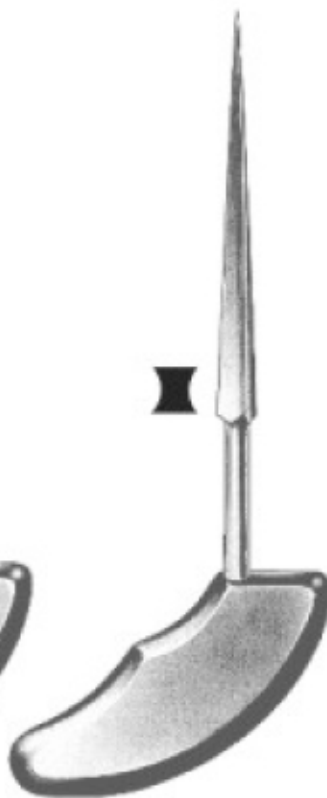
23-103
14 cm



23-104
30 cm
Straight ball spike



PERTHES
23-105
18 cm



PERTHES
23-105A
21 cm



BUTCHER
23-105B
Blade 45 cm
Post mortem saw



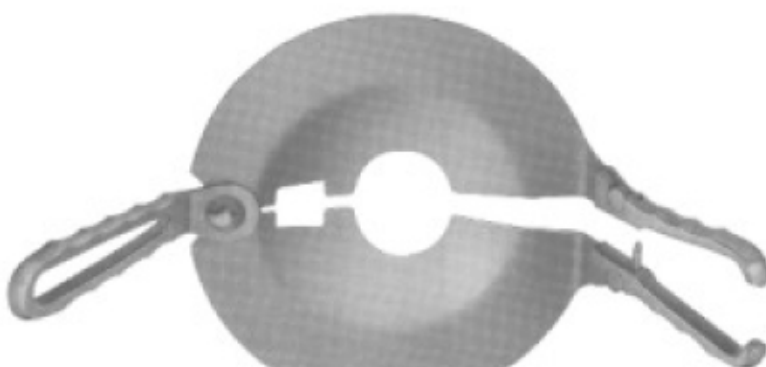
23-105C
Blade 40 cm
Post mortem saw



23-105D
30 cm
Blade 20 cm
Post mortem saw

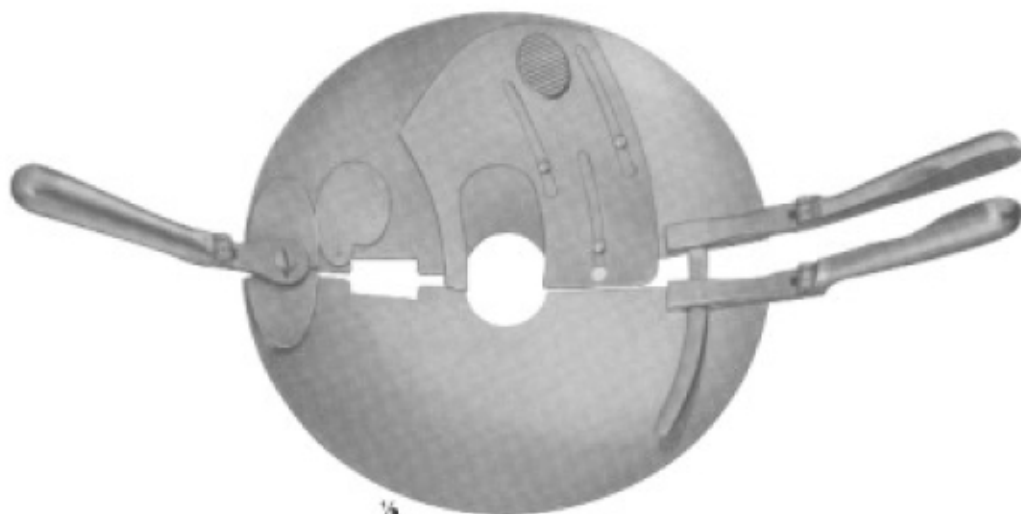


23-105A For children
23-105B For adults



1/4

23-106
PERCY
removeable handles



1/4

23-107
PERCY
reversible handles



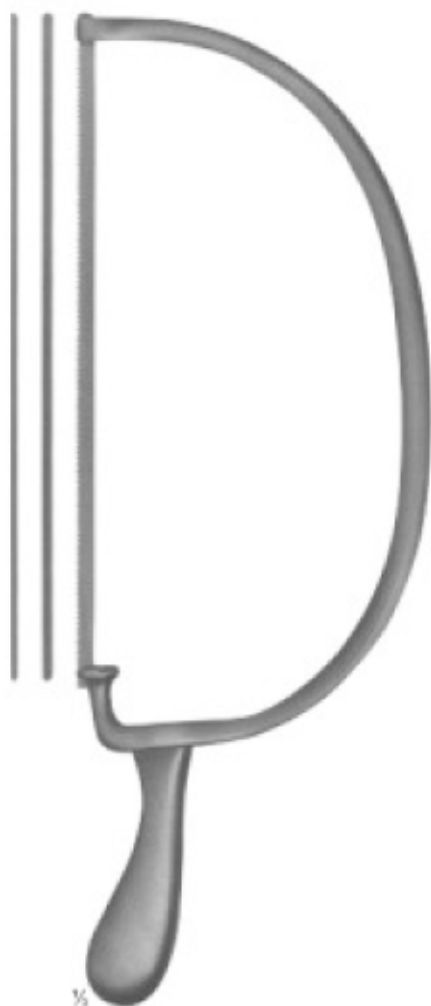
23-108
CHARRIERE
Length of blade
215 mm
complete with one saw
blade each(23-109 and 23-110)
350 mm

Spare saw blades, carbon steel
23-109 12 mm
23-110 20 mm



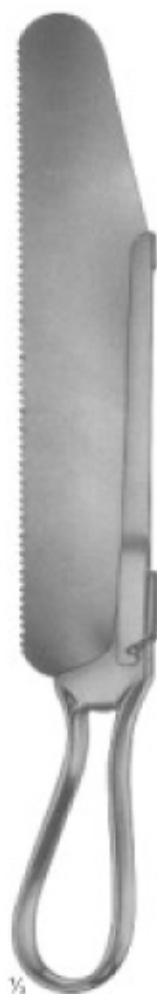
23-111
RUST
Length of blade
235 mm
complete with one saw
blade each(23-113, 23-114
and 2 saw blades 23-115)
390 mm
23-112 Bow only

Spare saw blades, carbon steel
23-113 6 mm
23-114 8 mm
23-115 12 mm
23-116 20 mm



**23-117
BIER**
Length of blade
270 mm
complete with one saw
blade each(23-118, 23-119 and 23-120)
420 mm

Spare saw blades, carbon steel
23-118 4 mm
23-119 6 mm
23-120 8 mm



**23-121
CHARRIERE**
Length of blade
180 mm
Spare saw blade,
carbon steel (23-122)
270 mm

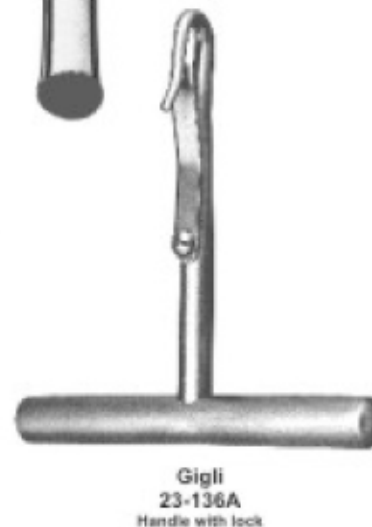
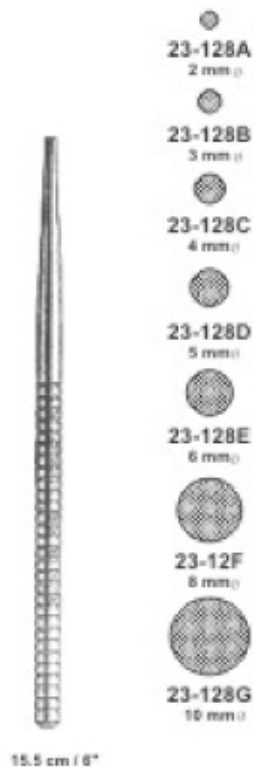
**23-123
CHARRIERE**
Length of blade
240 mm
Spare saw blade,
carbon steel(23-124)
340 mm



**23-125
SATTERLEE**
Length of blade
200 mm
Spare saw blade,
carbon steel(23-126)
290 mm



**23-127
LANGENBECK**
Length of blade
115 mm
Metacarpal saw
235 mm



323



23-128 - 131
OLIVECRONA
23-128 300 mm
23-129 400 mm
23-130 500 mm
23-131 700 mm



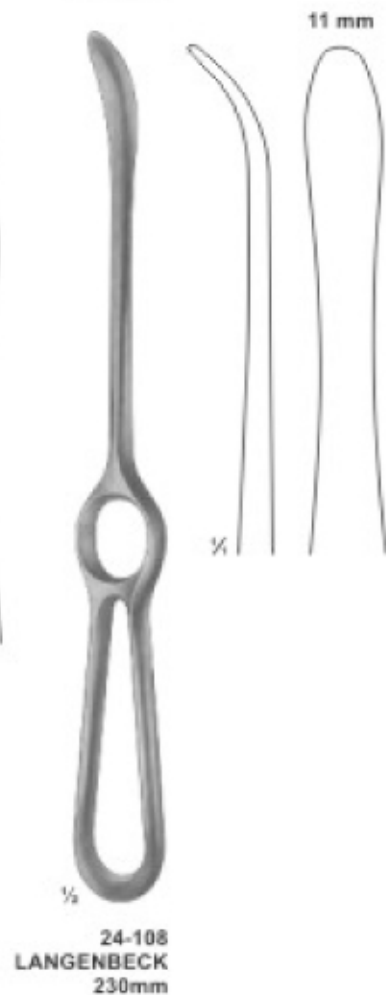
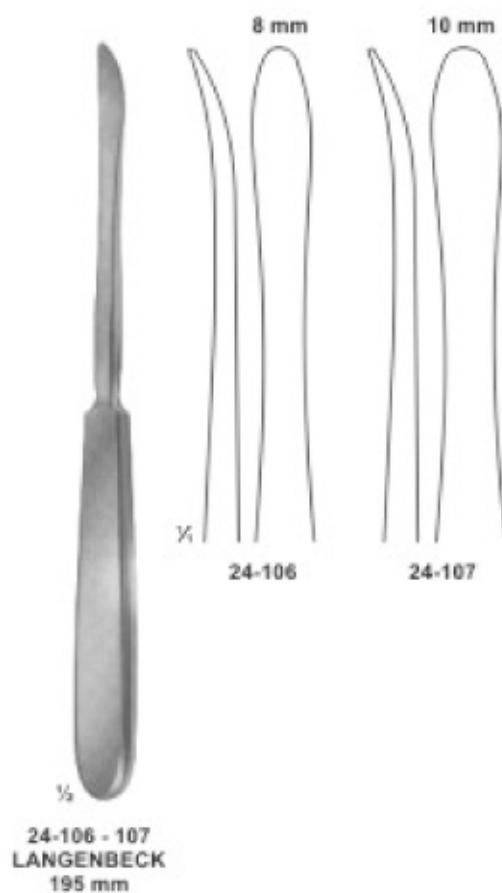
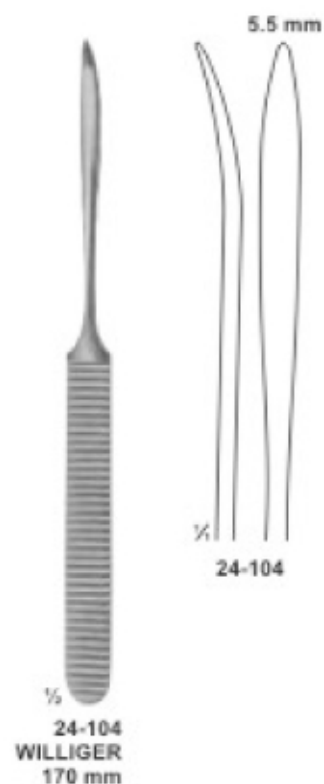
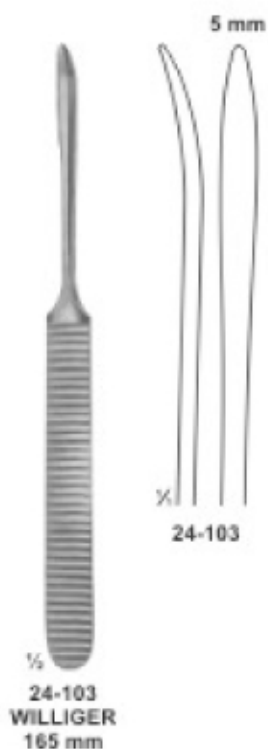
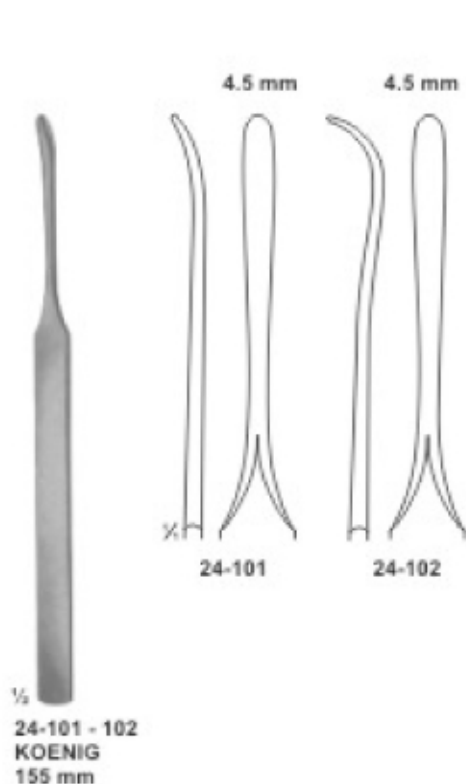
23-132 - 135
GIGLI
23-132 300 mm
23-133 400 mm
23-134 500 mm
fine, 6 wires twisted
23-135 500mm
coarse, 4 wires twisted

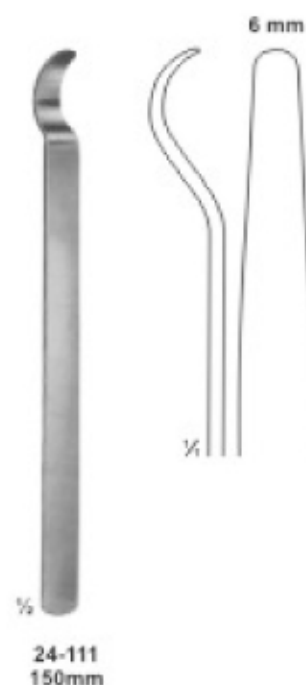
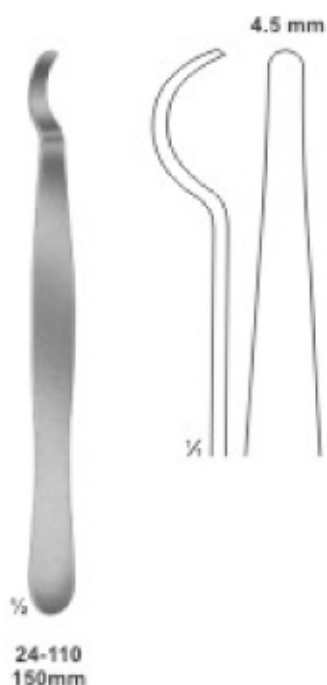
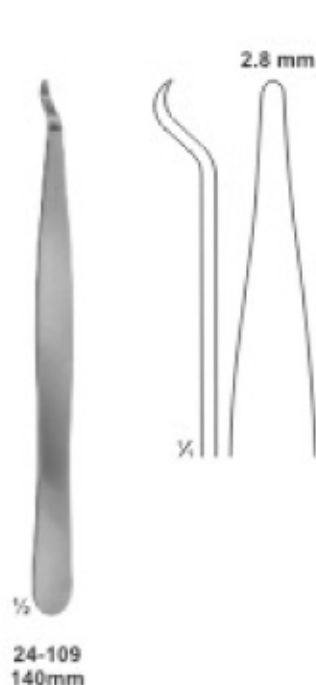


23-136
GIGLI
Handle

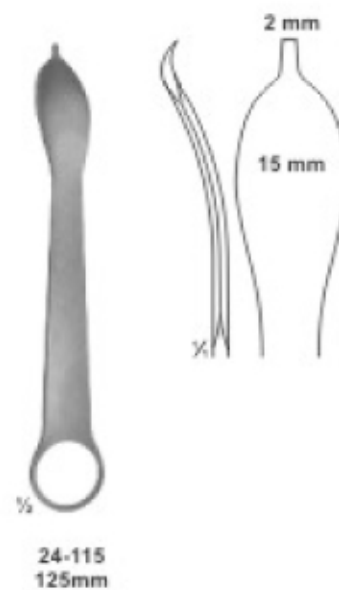
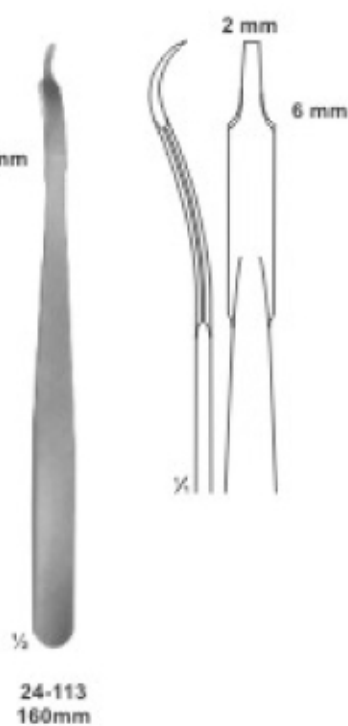
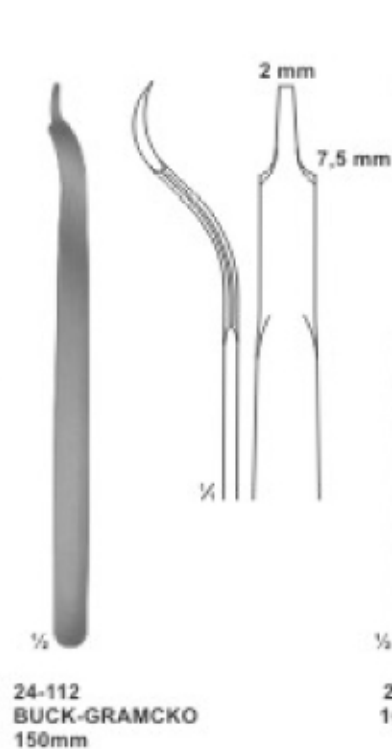


23-137
LEBSCHKE
Conductor for
wire saws, malleable
250 mm



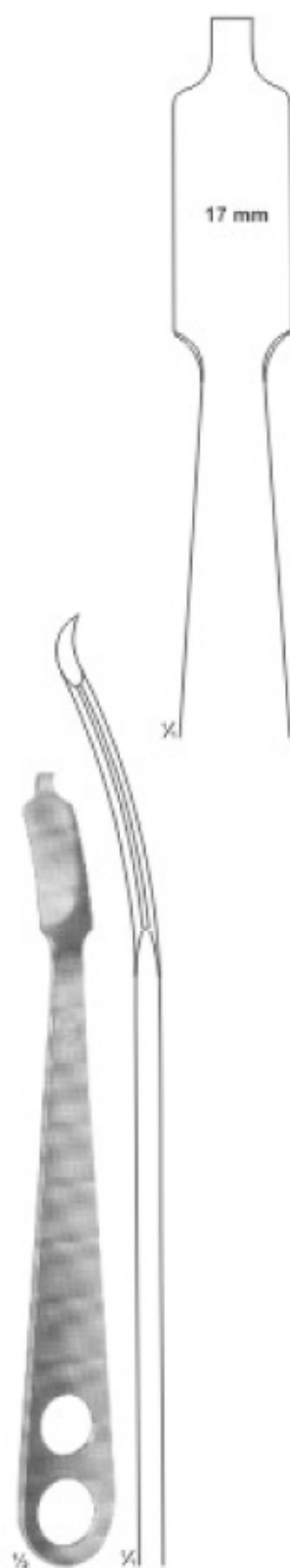


325

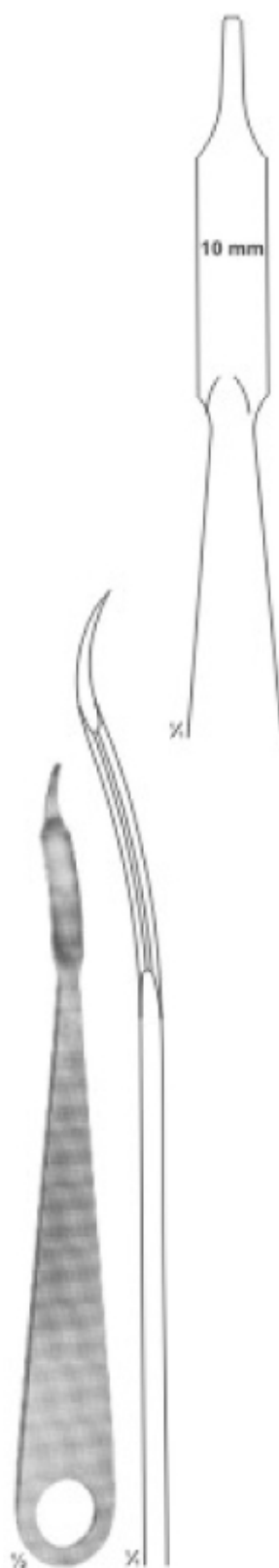




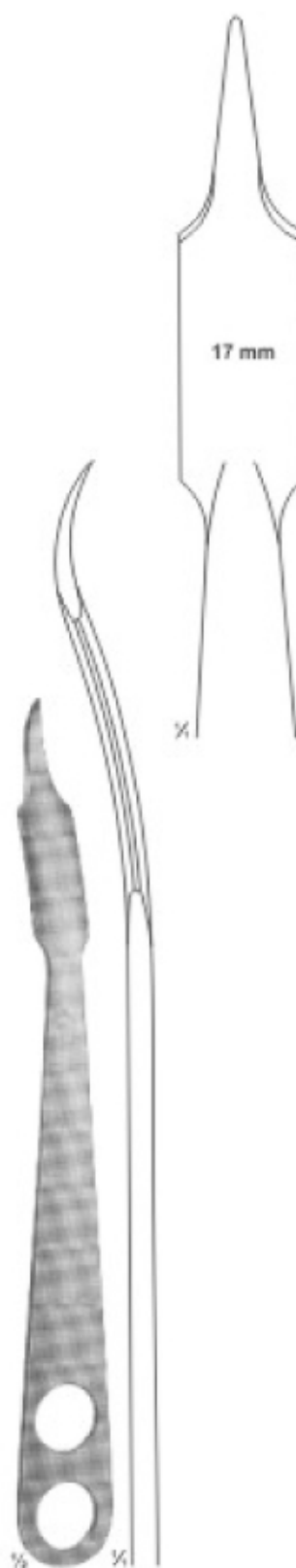
327



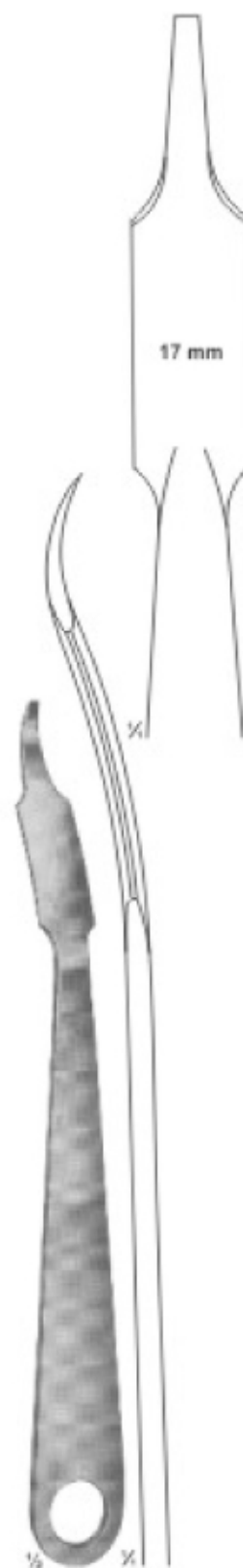
24-121
WAGNER
220 mm



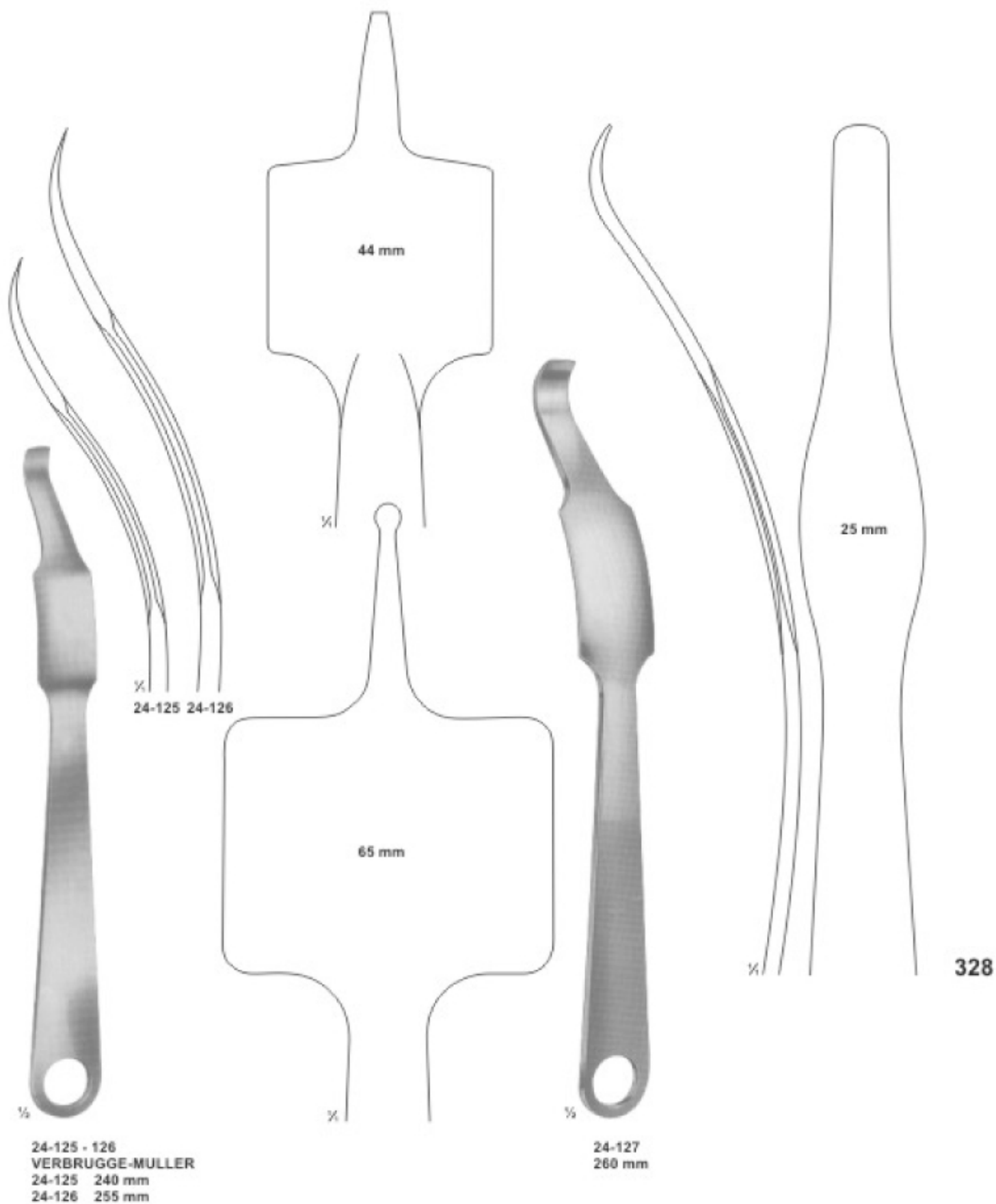
24-122
220 mm



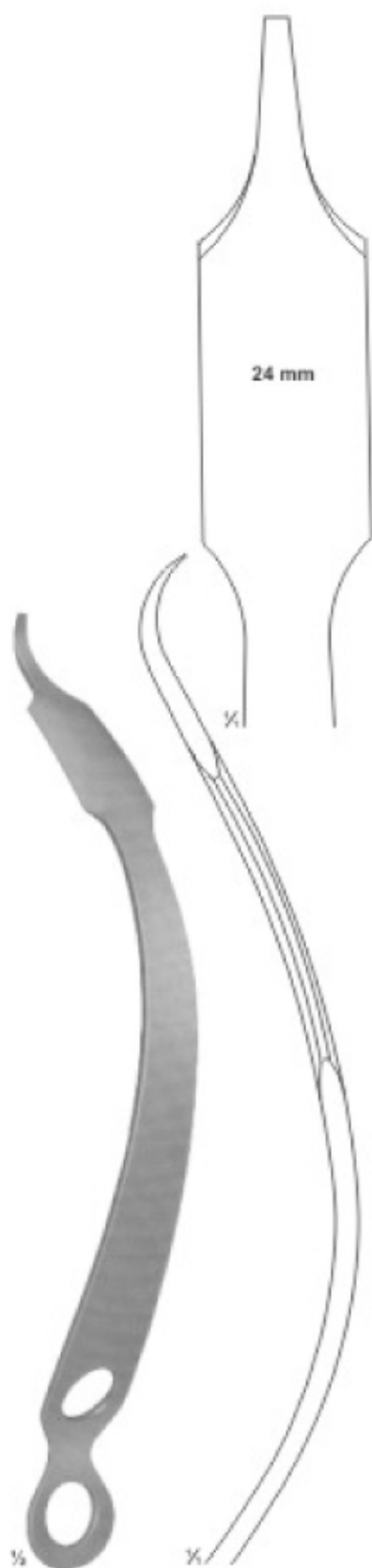
24-123
240 mm



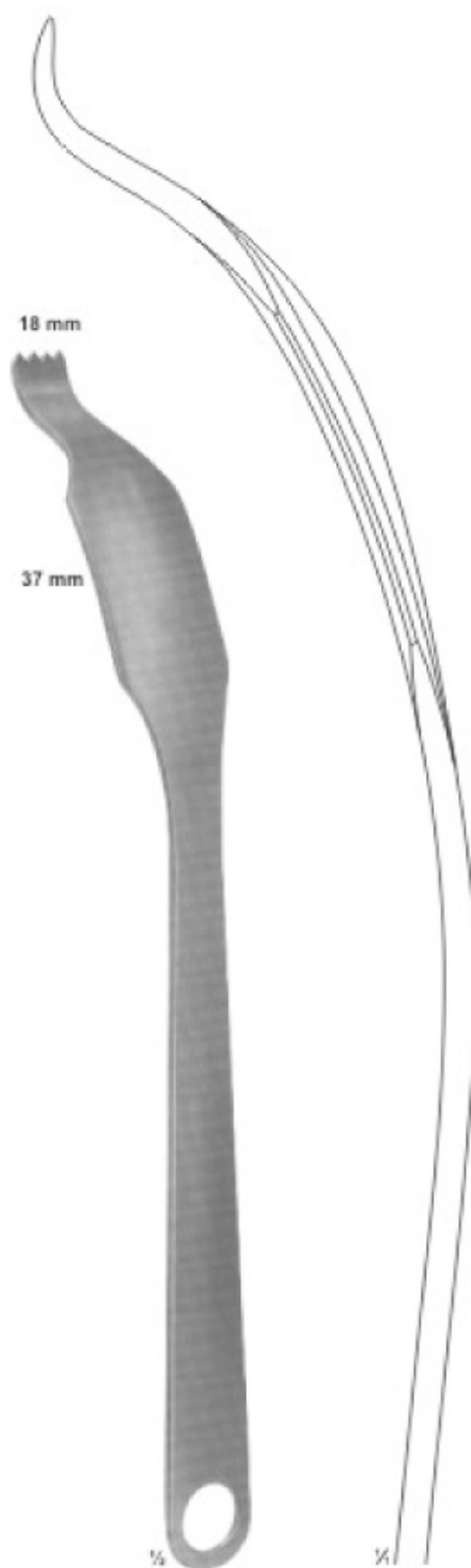
24-124
240 mm



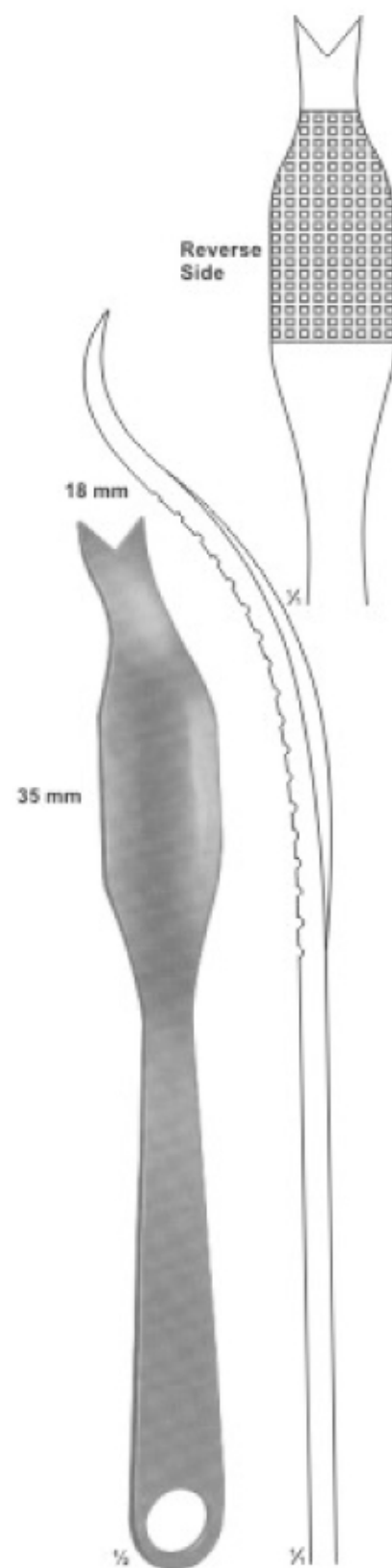
329



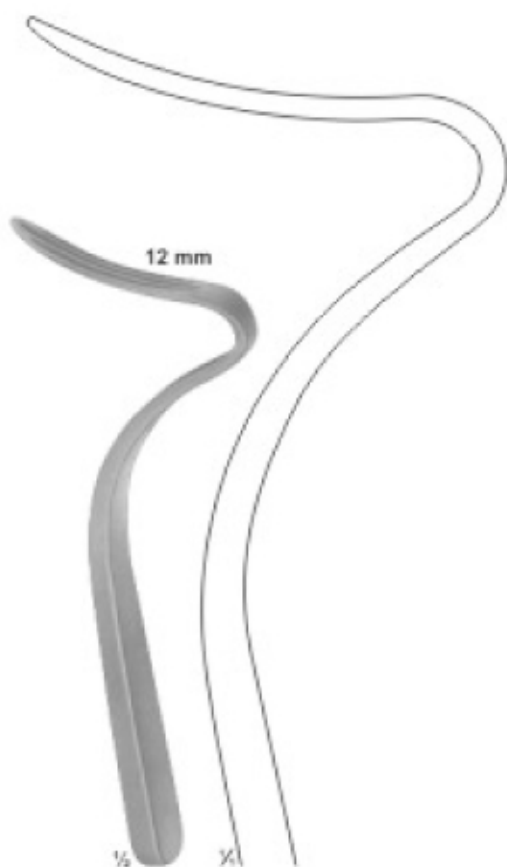
24-128
HOHMANN-ALDINGER
270 mm



24-129
SCHUMACHER mod. WAGNER
345 mm



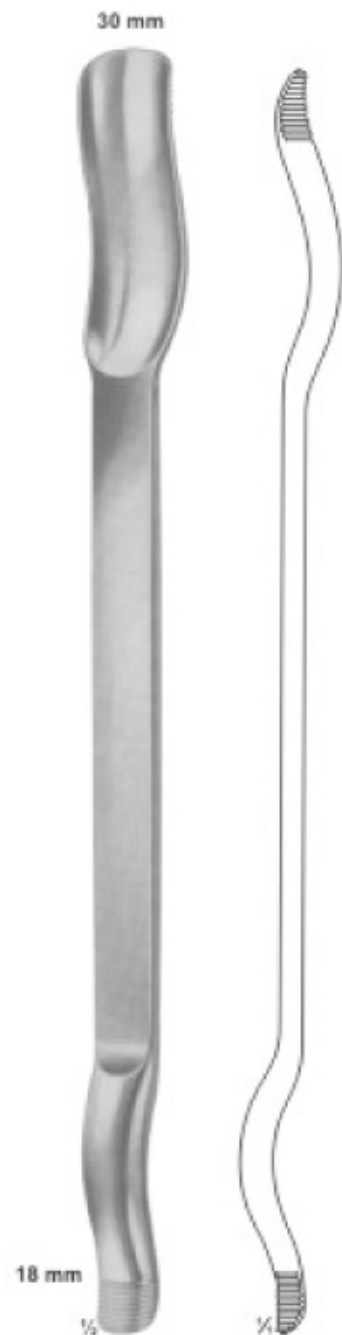
24-130
SCHUMACHER
290 mm



**24-131
TAGER**
Bone lever for
angle joint operations
175 mm

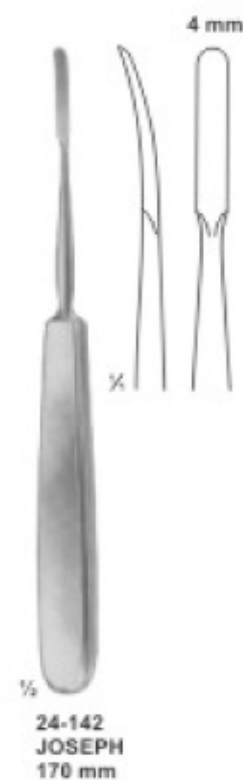
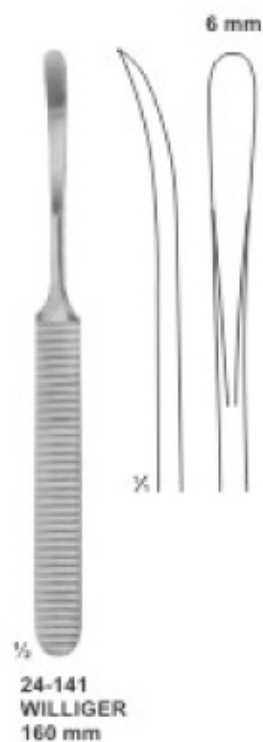
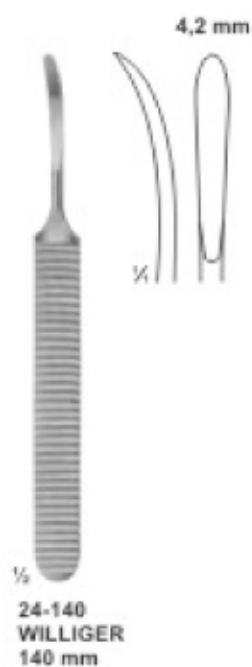
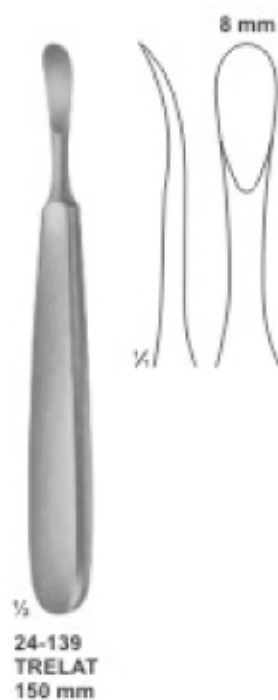
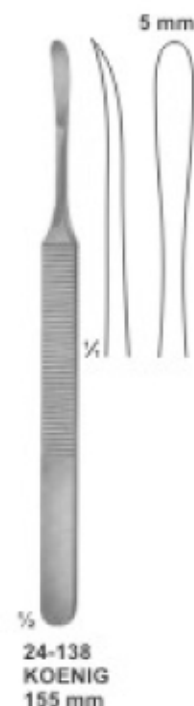
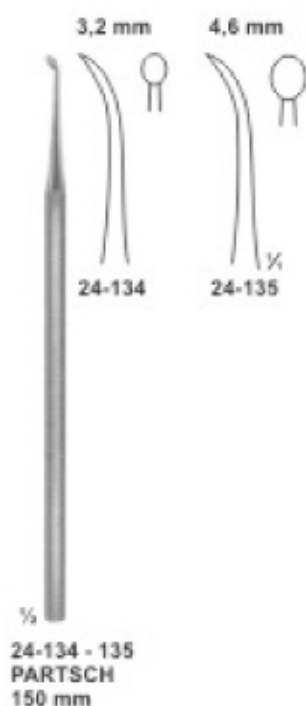


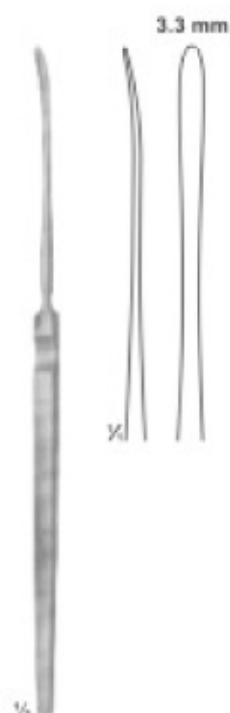
**24-132
BENNETT**
235 mm



**24-133
MURPHY-LANE**
Luxation lever
340 mm

330





24-143
HALLÉ
blunt
180 mm



24-144
FREER
blunt
190 mm



24-145
FREER
sharp
190 mm



24-146
SEWALL
blunt
200 mm



24-147



24-148



24-149



24-150



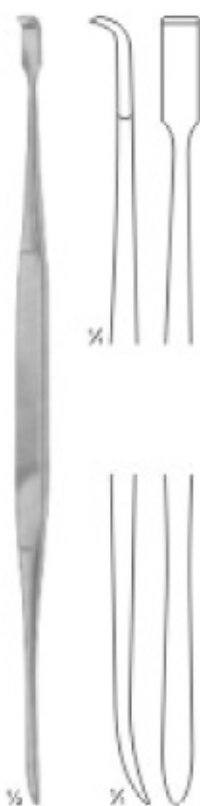
24-151

24-147 - 149
PAULSEN
205 mm

24-150 - 151
PAULSEN
205 mm



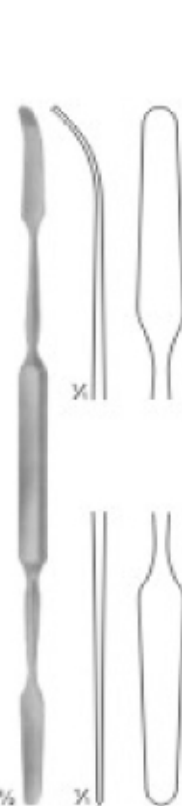
**24-152
KILLIAN**
sharp/blunt
185 mm



**24-153
HOWARTH**
sharp/blunt
215 mm



**24-154
KILLIAN**
sharp/blunt
185 mm



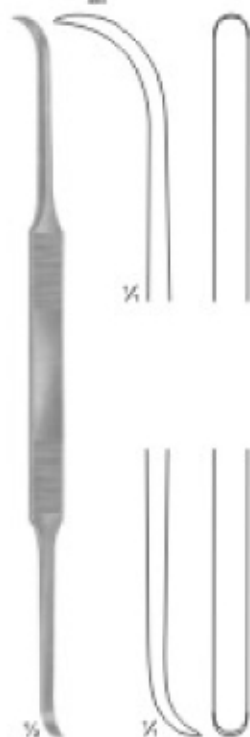
**24-155
MAC DONALD**
blunt/blunt
185 mm



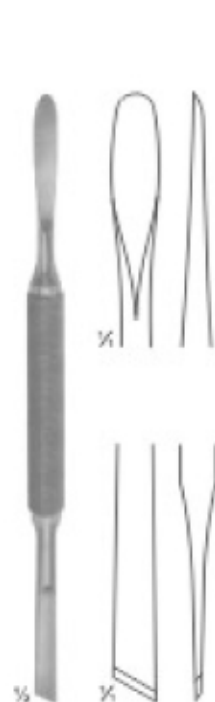
**24-156
FREER**
sharp/blunt
185 mm



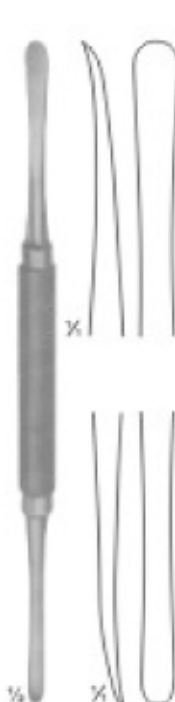
**24-157
FREER-YASARGIL**
sharp/sharp
185 mm



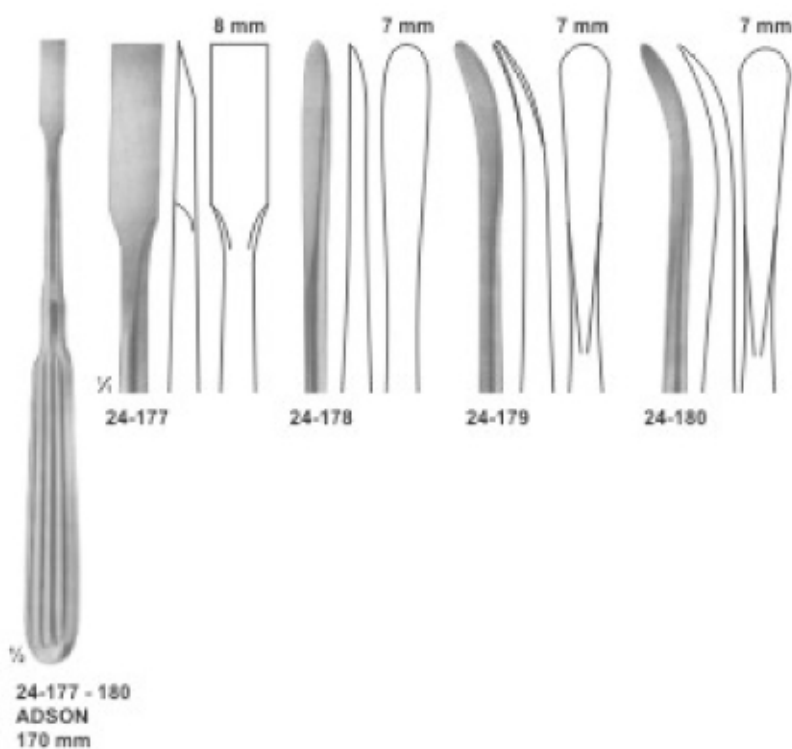
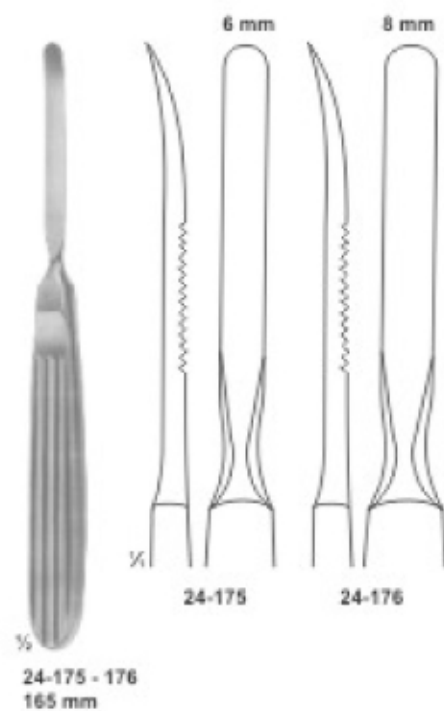
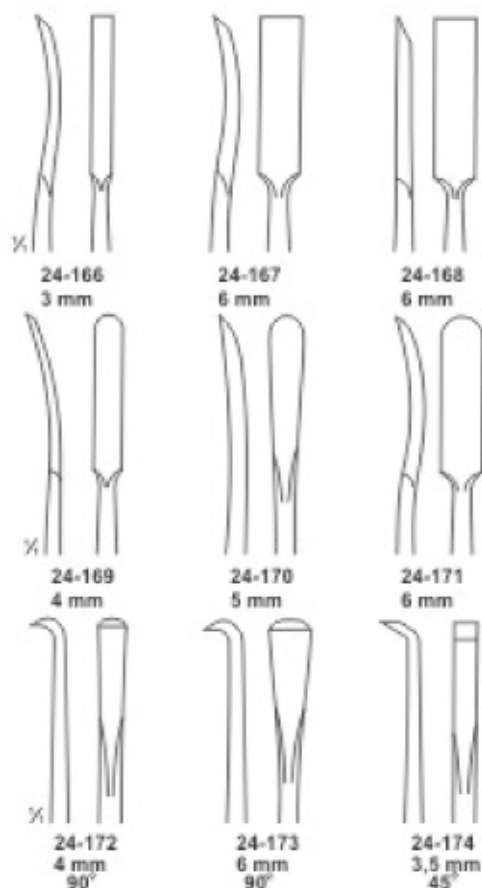
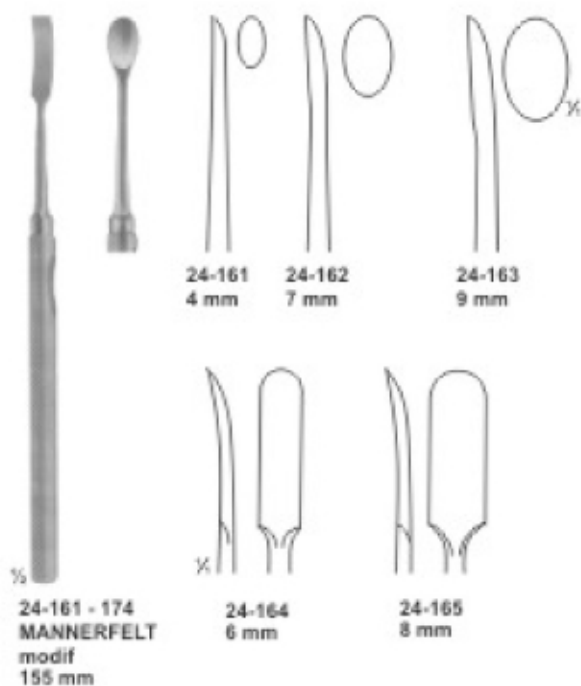
**24-158
COTTLE**
sharp/sharp
200 mm

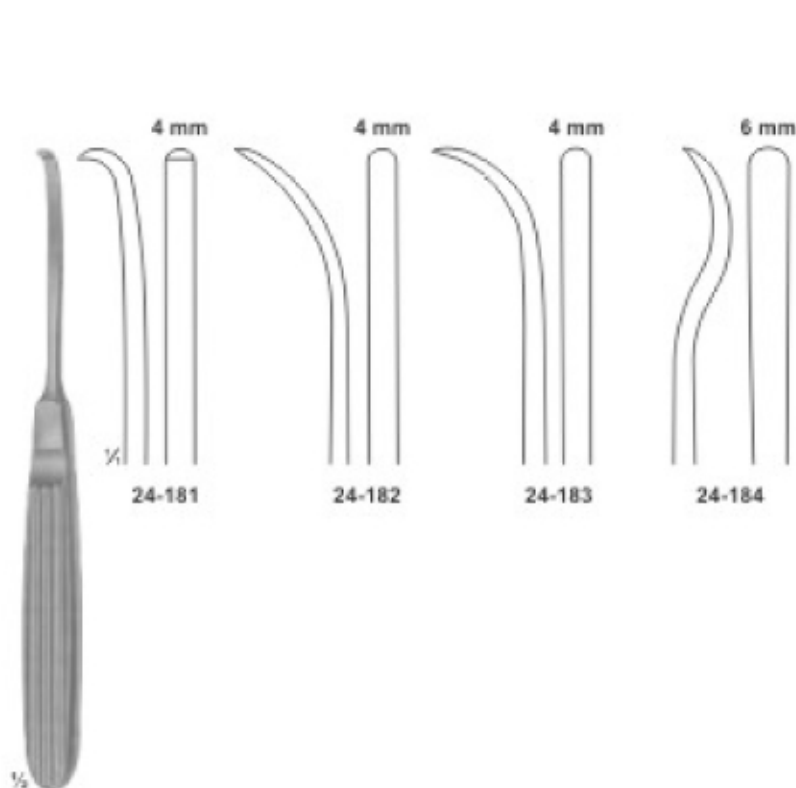


**24-159
MEAD**
sharp/sharp
165 mm



**24-160
MOLT**
sharp/sharp
180 mm

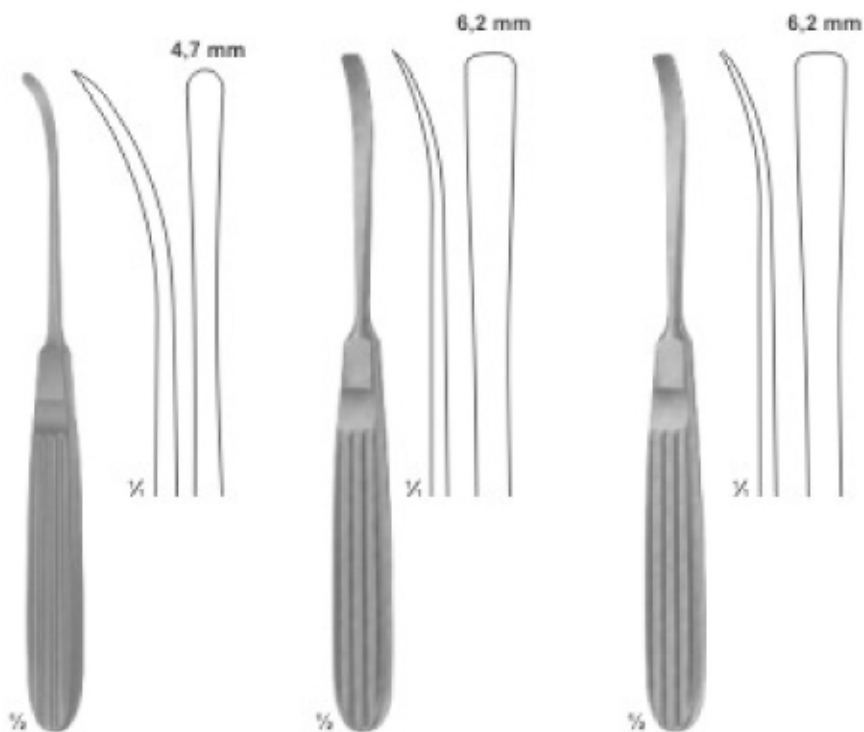




24-181 - 184
MUEHLING
170 mm



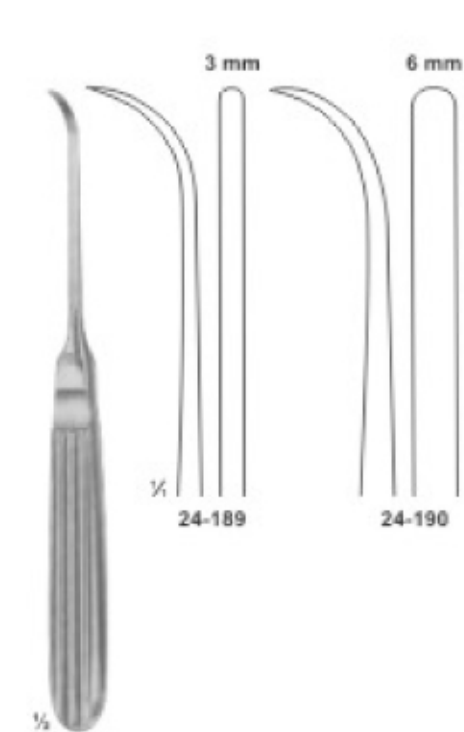
24-185
COTTLE
195 mm



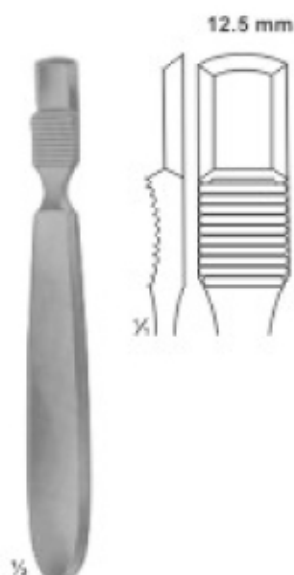
24-186
LANDOLT
175 mm

24-187
CASPAR
180 mm

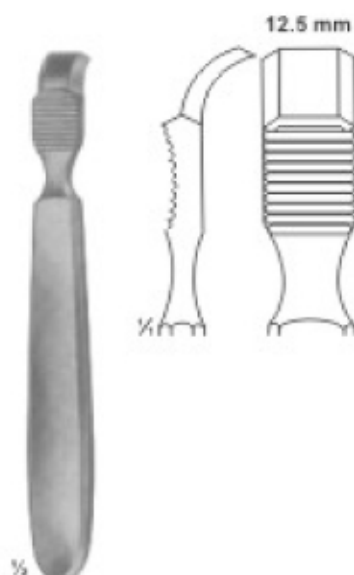
24-188
CASPAR
180 mm



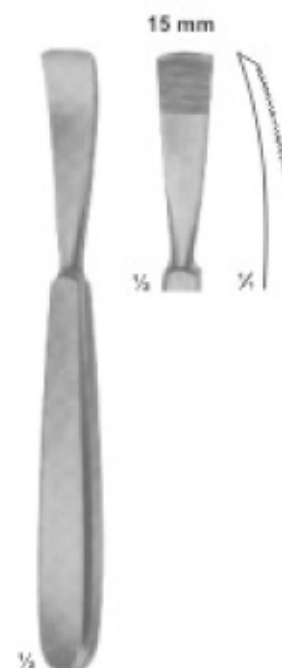
24-189 - 190
170 mm



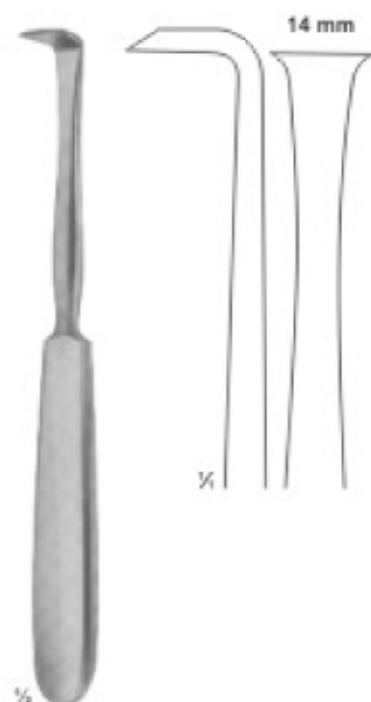
24-191
FARABEUF
140 mm



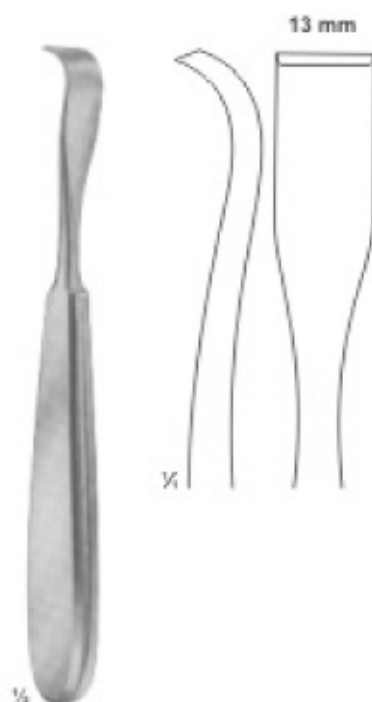
24-192
FARABEUF
140 mm



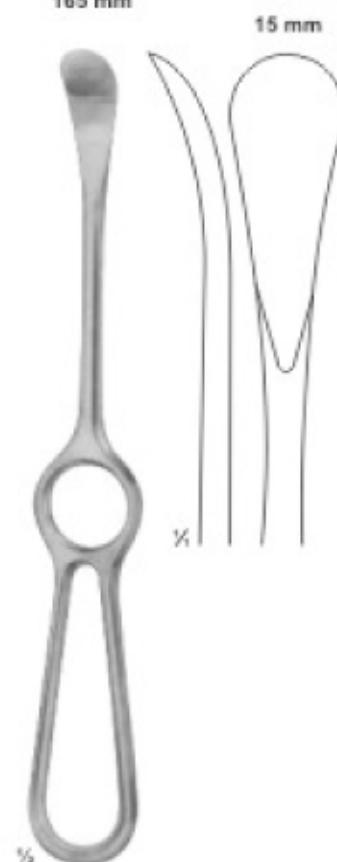
24-193
JANSEN
165 mm



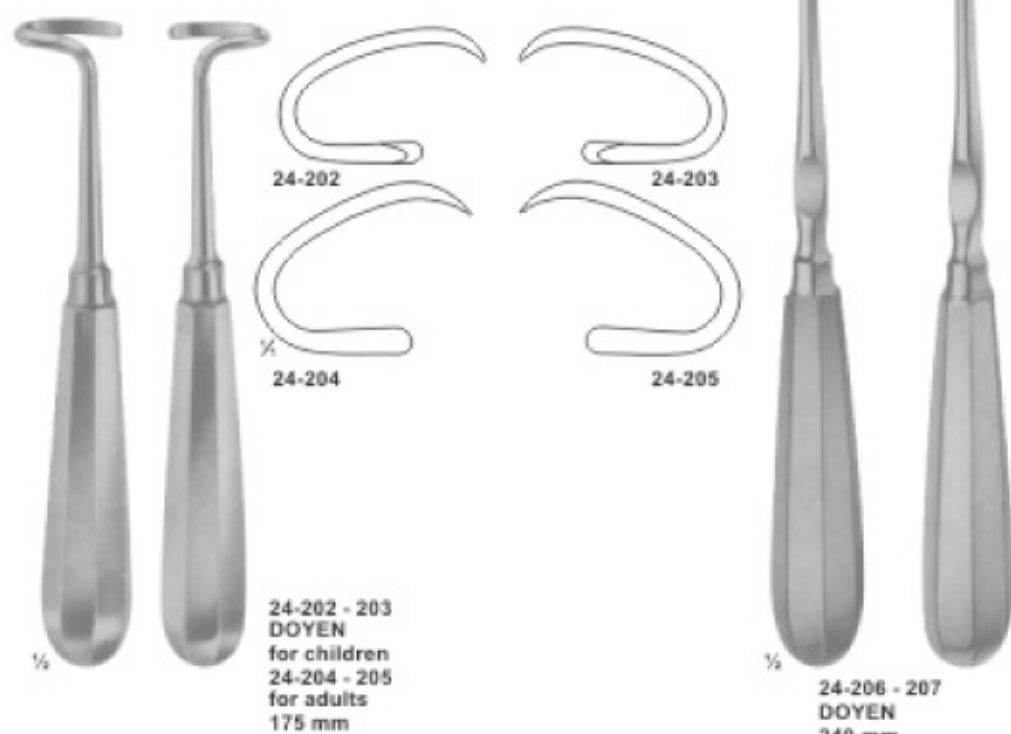
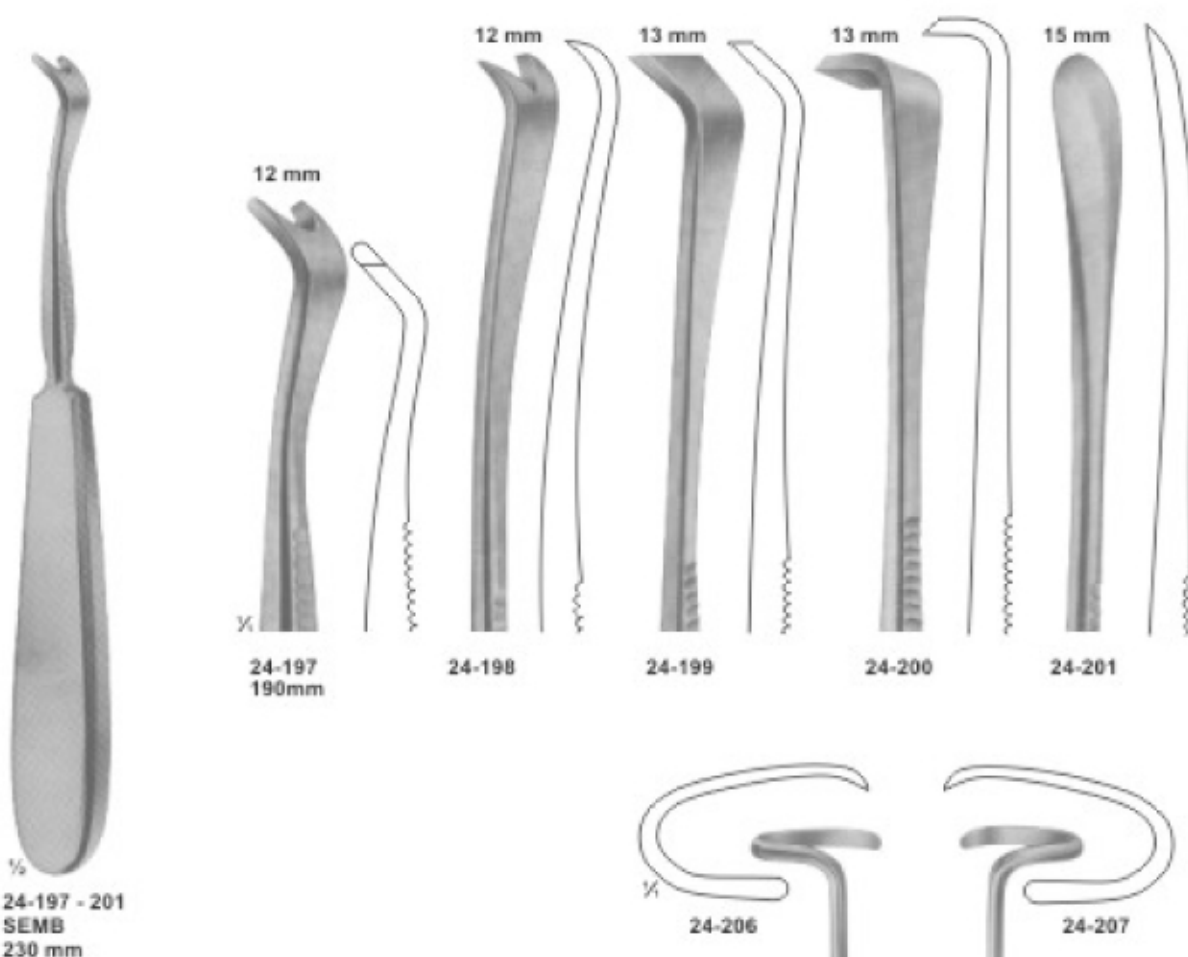
24-194
LANGENBECK
180 mm

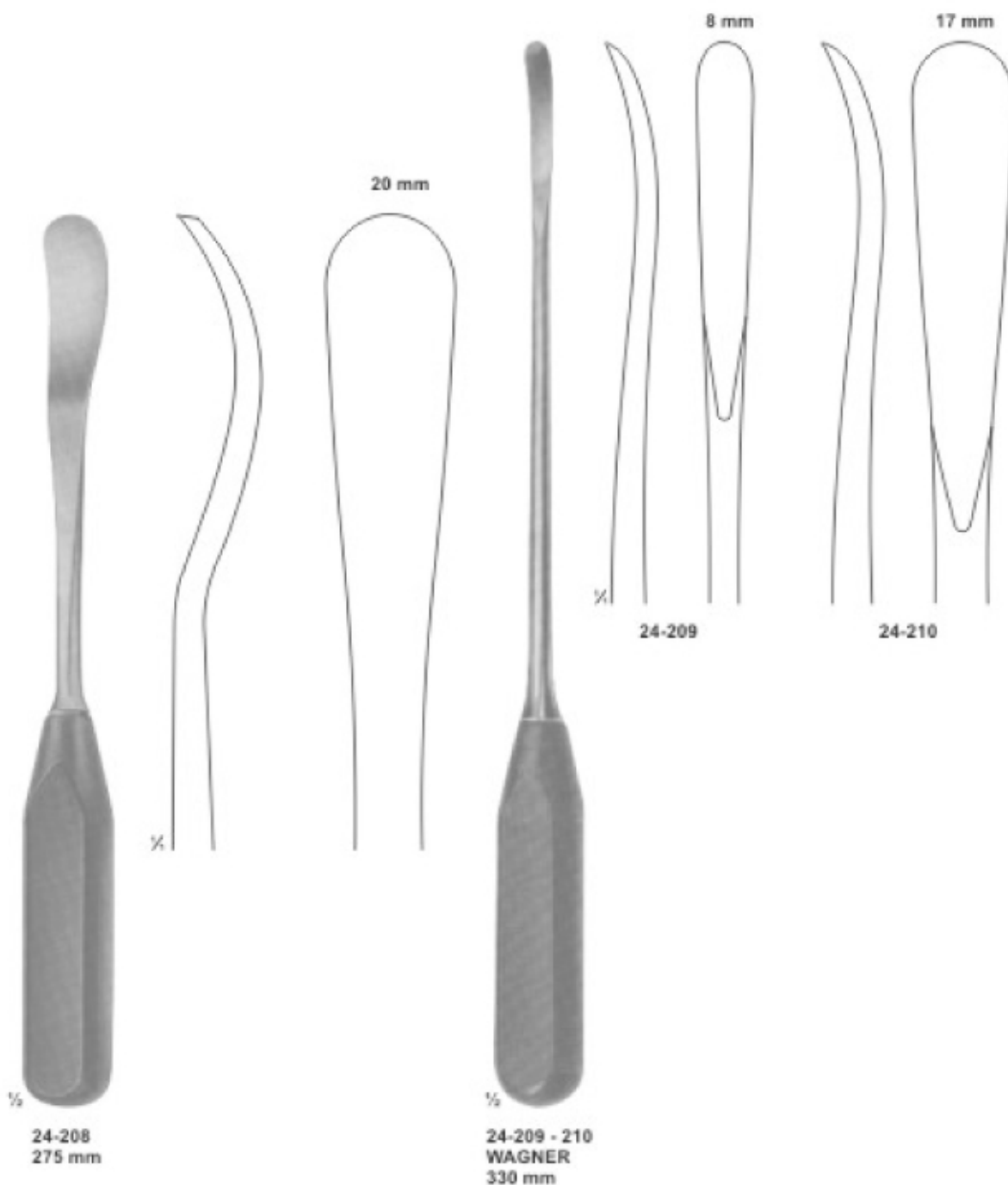


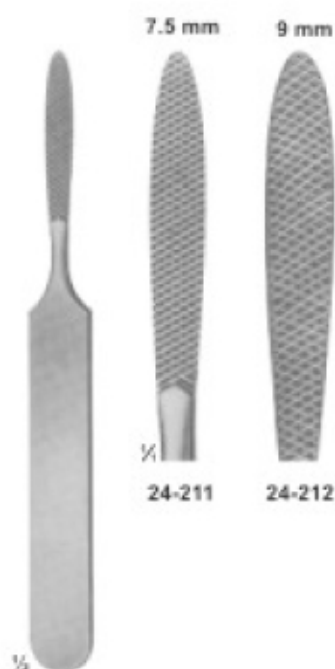
24-195
SCHNEIDER
175 mm



24-196
SEDILLOT
215 mm







24-211
JOSEPH
fine, chequered

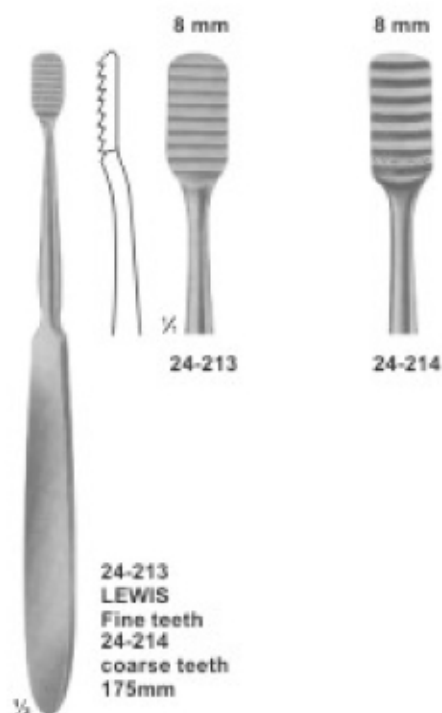
24-212
coarse, chequered
165 mm



24-215
MALTZ
down stroke
180 mm



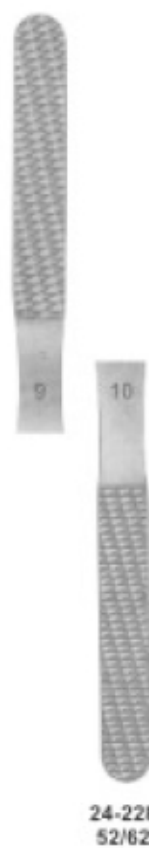
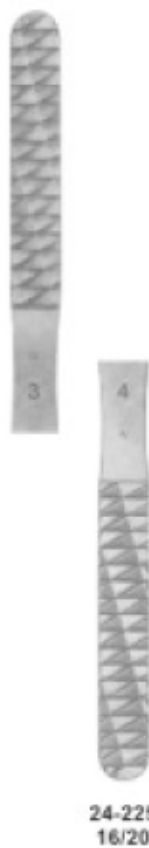
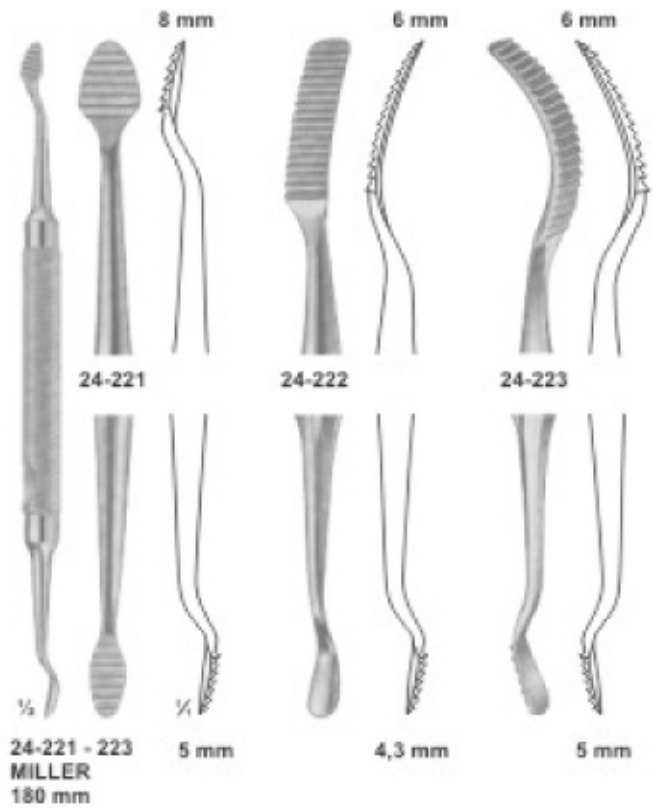
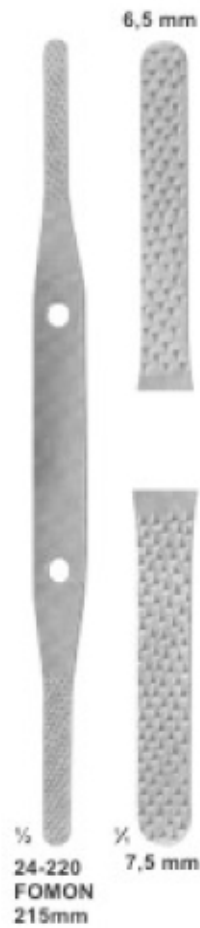
24-216
AUFRICT
up stroke
24-217
down stroke
220 mm



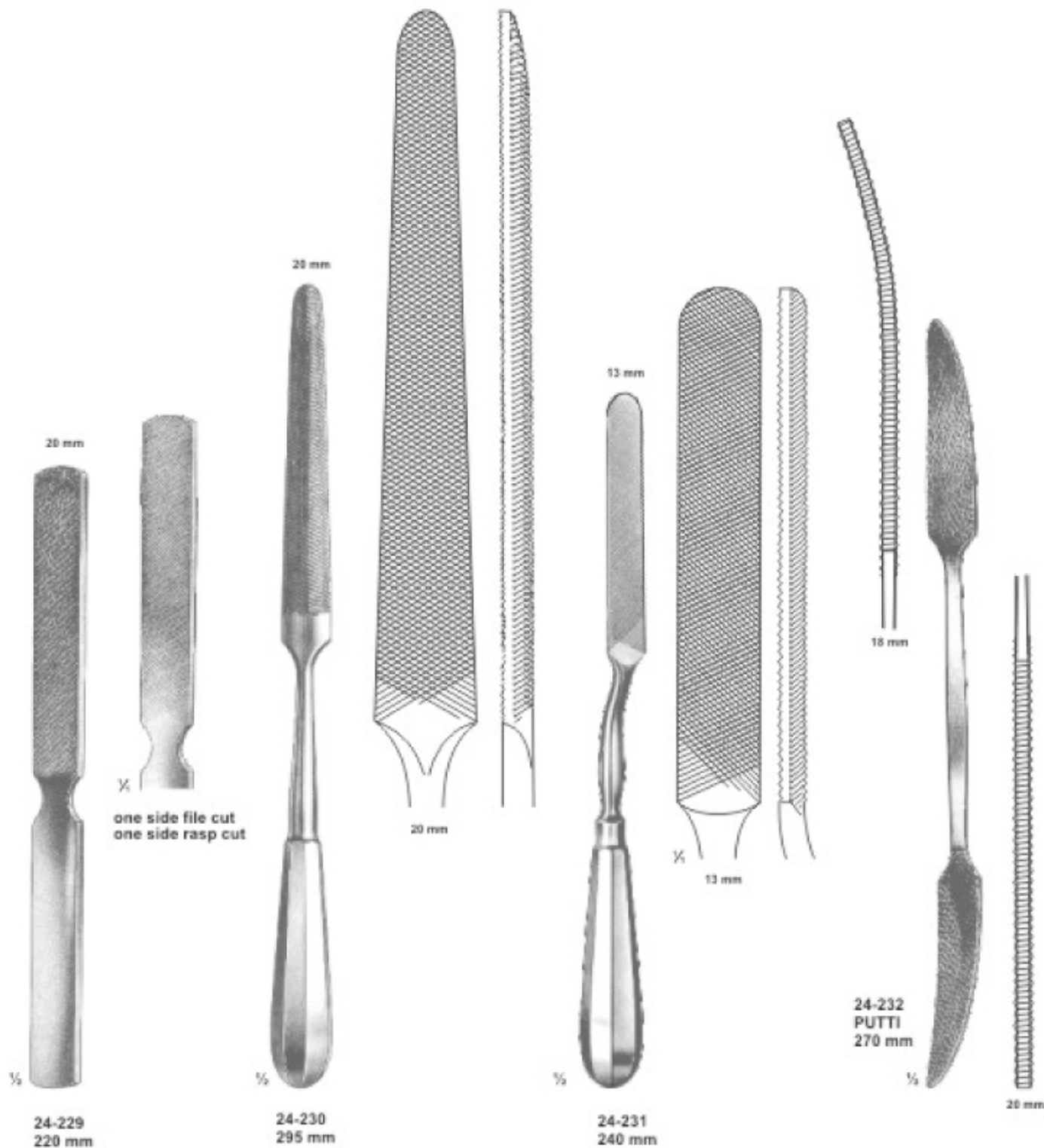
24-213
LEWIS
Fine teeth
24-214
coarse teeth
175mm

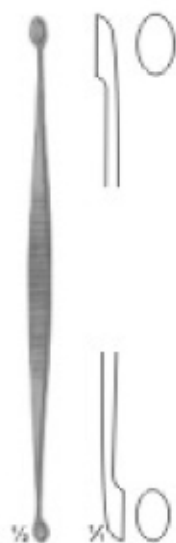


24-218
GALLAHER
190 mm



341





24-233
JACOBSON
140 mm



24-234
MARTINI
140 mm



24-235
MARTINI
140 mm



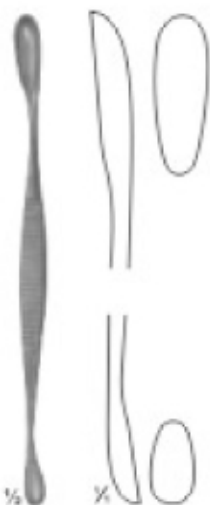
24-236
WILLIGER
145 mm



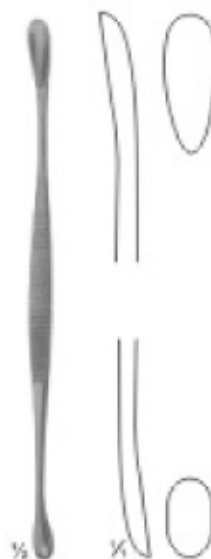
24-237
JANSEN
160 mm



24-238
BARTH
180 mm



24-239
VOLKMANN
130 mm



24-240
VOLKMANN
145 mm



24-241
VOLKMANN
170 mm



24-242
JANSEN
160 mm



24-243
HEMINGWAY
170 mm



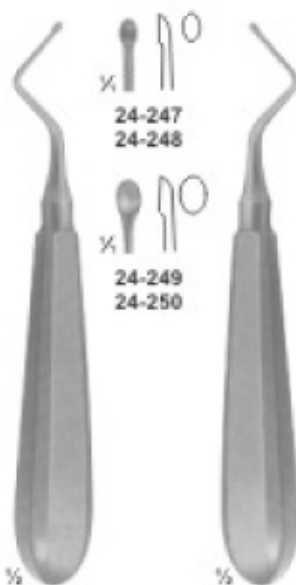
24-244
HEMINGWAY
175 mm



24-245
LUCAS
180 mm



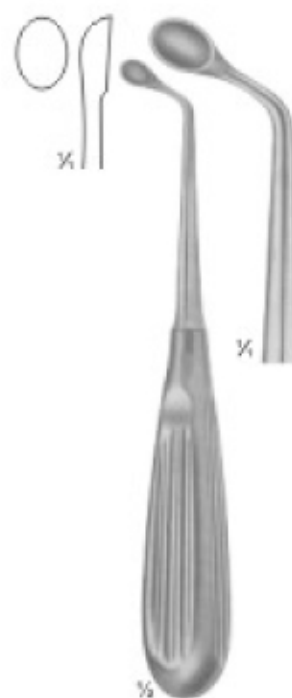
24-246
LUCAS
185 mm



24-247 - 24-249
KERPEL
145 mm



24-248 - 24-250
KERPEL
145 mm



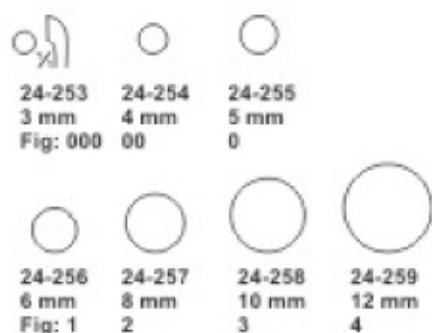
24-251
UFFENORDE
170 mm



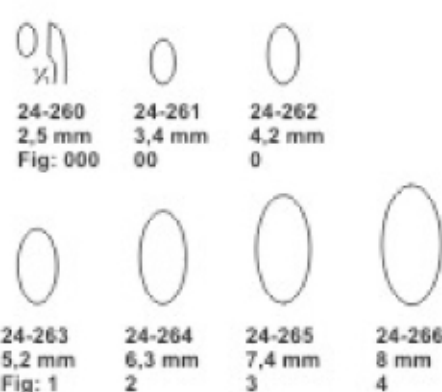
24-252
UFFENORDE
170 mm



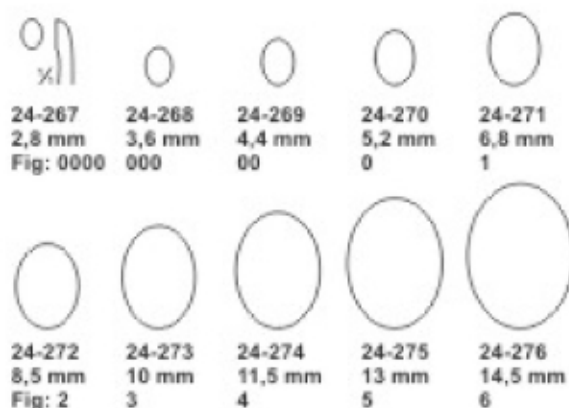
24-253 - 259
BRUNS
165 mm



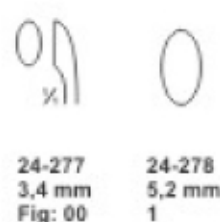
24-260 - 266
SCHEDE
170 mm

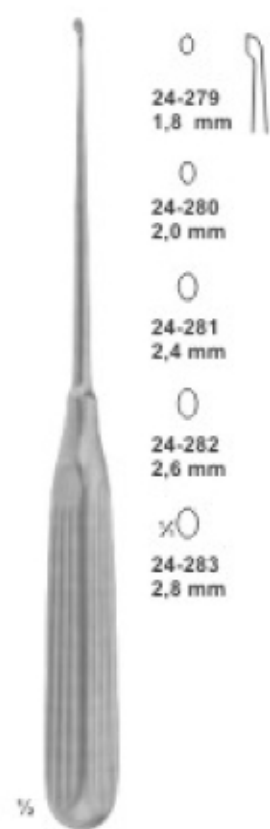


24-267 - 276
VOLKMANN
170 mm



24-277 - 278
WILLIGER
170 mm





24-279
1,8 mm

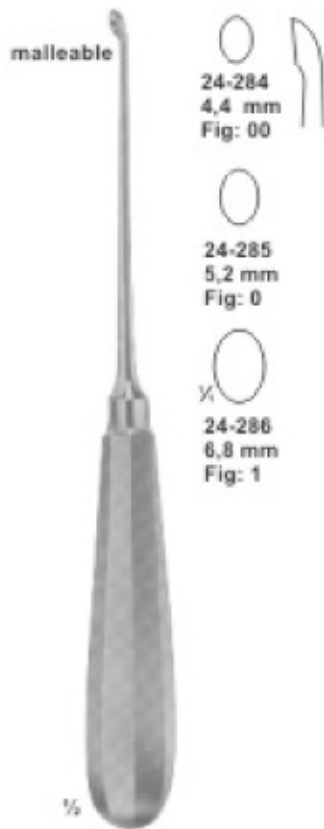
24-280
2,0 mm

24-281
2,4 mm

24-282
2,6 mm

24-283
2,8 mm

24-279 - 283
LEMPERT
215 mm



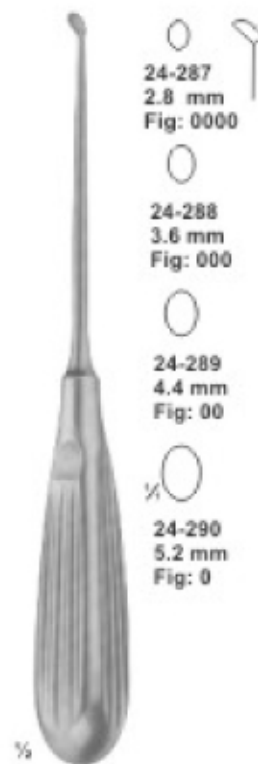
malleable

24-284
4,4 mm
Fig: 00

24-285
5,2 mm
Fig: 0

24-286
6,8 mm
Fig: 1

24-284 - 286
HALLE
215 mm



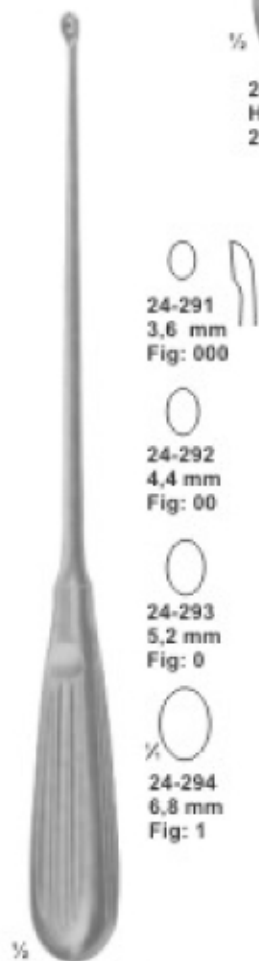
24-287
2,8 mm
Fig: 0000

24-288
3,6 mm
Fig: 000

24-289
4,4 mm
Fig: 00

24-290
5,2 mm
Fig: 0

24-287 - 290
DAUBENSPECK
200 mm



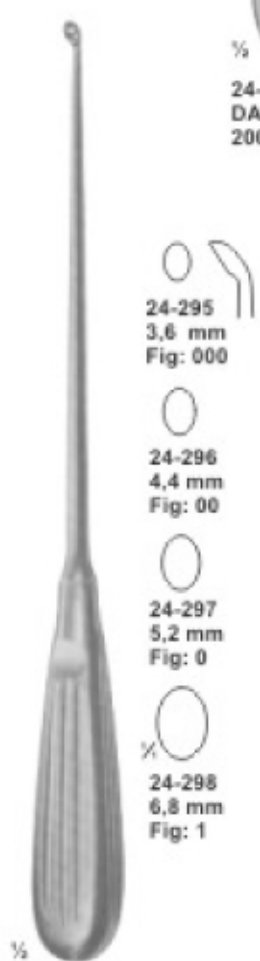
24-291
3,6 mm
Fig: 000

24-292
4,4 mm
Fig: 00

24-293
5,2 mm
Fig: 0

24-294
6,8 mm
Fig: 1

24-291 - 294
250 mm



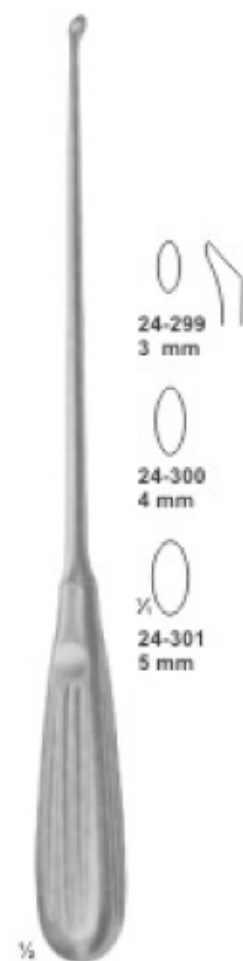
24-295
3,6 mm
Fig: 000

24-296
4,4 mm
Fig: 00

24-297
5,2 mm
Fig: 0

24-298
6,8 mm
Fig: 1

24-295 - 298
250 mm

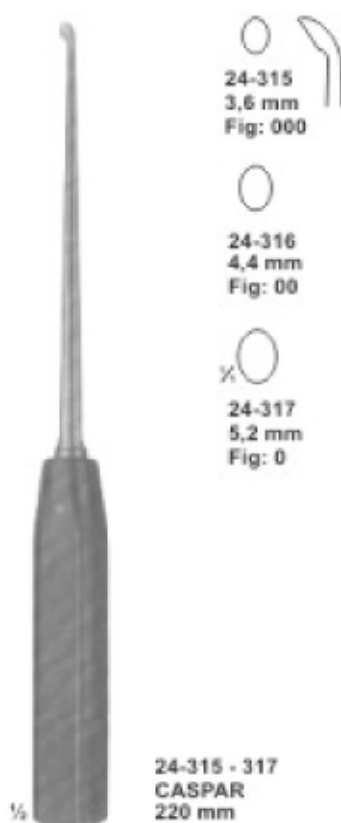
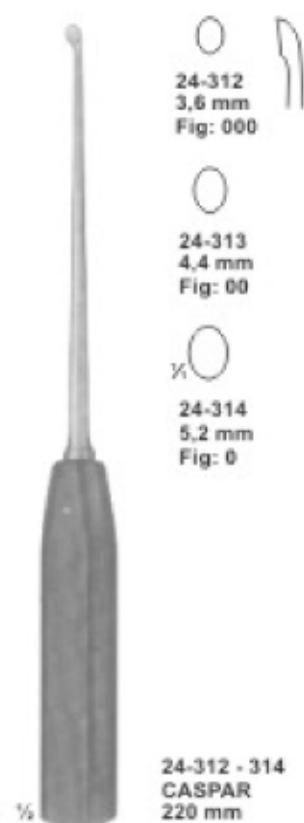
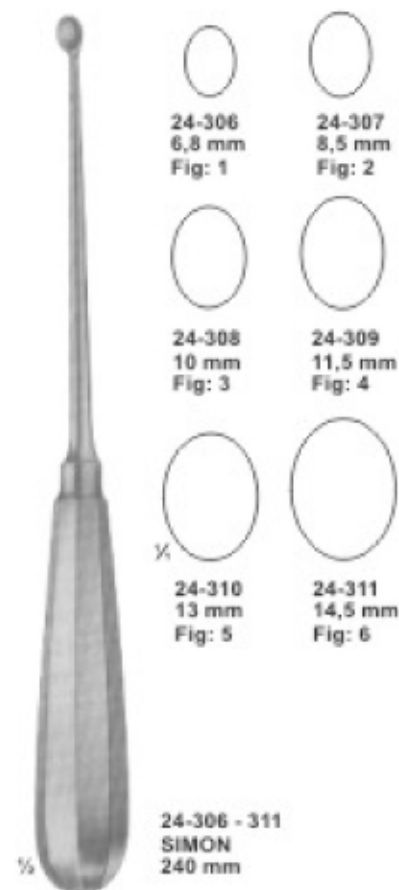


24-299
3 mm

24-300
4 mm

24-301
5 mm

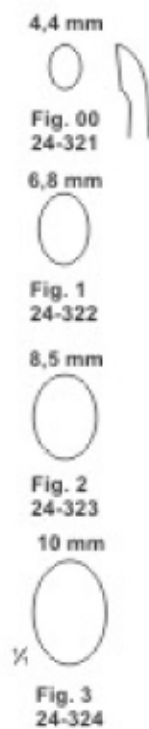
24-299 - 301
BUSHE
250 mm



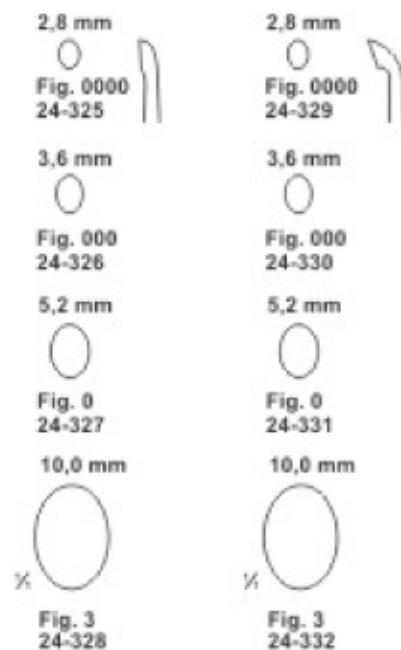
can be sterilized in
a steam sterilizer upto
3 bar over pressure
(143 C).



24-321 - 324
270 mm



24-325 - 332
SYPERT
380 mm





25-101
16.5 cm / 6 1/2"
140 gm / 5 oz, 20 mm



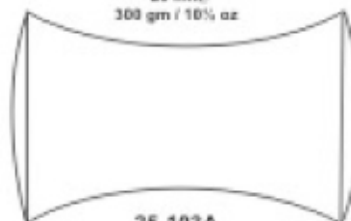
Collin
25-102
20 cm / 8"
220 gm / 7 1/2 oz, 30 mm



Williger
24 cm / 9 1/2"



25-103
28 mm
300 gm / 10 1/2 oz



25-103A
28 mm
340 gm / 12 oz



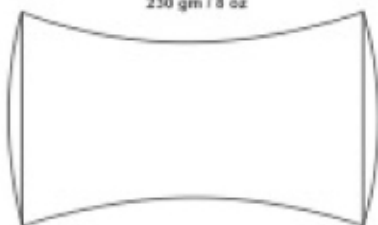
25-103B
30 mm
400 gm / 14 oz



Lucæ
19 cm / 7 1/2"



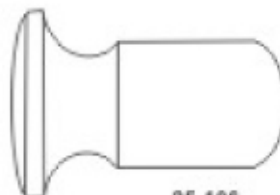
25-104
19 mm
230 gm / 8 oz



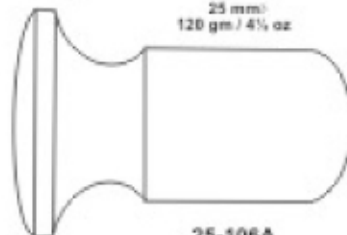
25-105
25 mm
260 gm / 9 oz



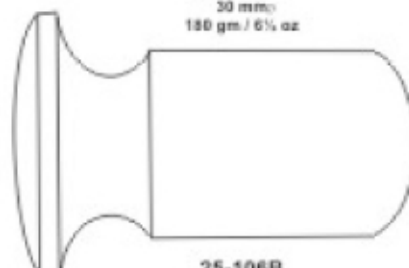
Doyen
21 cm / 8 1/2"



25-106
25 mm
120 gm / 4 1/4 oz



25-106A
30 mm
180 gm / 6 1/2 oz



25-106B
35 mm
260 gm / 9 oz

Mallets



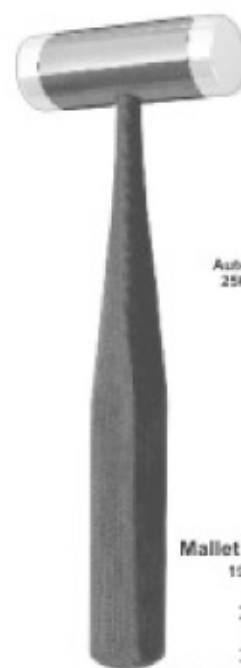
Mead
320 gm, 26 mm
25-107
Solid
25-107A
17 cm / 6 1/2"
Ferrozell faces only, pair



Partsch
22 mm
25-108
18 cm / 7"
200 gm
25-108A
16 cm / 6 1/4"
165 gm
25-108B
18 cm / 7"
220 gm



Heath
25-109
18.5 cm / 7 1/2"
705 gm, 40 mm
Cooper filled head



Autoclavable to
250°F (121°C)
Mallet Lightweight
19 cm / 7 1/2"
25 mm
25-110
140 gm
25-111
Two replaceable nylon caps
Total weight: 7 oz.
Head weight: 4 oz



25-112
Medium size hammer
Full aluminum
Total weight 200 gm



25-113
1000 gm
25-113A
700 gm
25-113B
500 gm



Aluminum handle
25-113C
600 gm, 22 oz
Heavy
25-113D
300 gm, 11 oz



Cottle
25-113E
19 cm / 7 1/2"
240 gm, 30 mm



25-114 450 gm
25-114A 500 gm



25-114B
26 cm / 10 1/4"
510 gm / 18 oz
30 mm $\varnothing$



25-114C
Head weight 550 gm
Total weight 750 gm
40 mm $\varnothing$



25-114D
Head weight 350 gm
Total weight 550 gm
35 mm $\varnothing$



Ombredanne
25-114E
24 cm / 9 1/2"
550 gm, 40 mm $\varnothing$



Bergmann
25-114F
24.5 cm / 9 3/4"
300 gm, 45 mm $\varnothing$



Bergmann
25-114G
23.5 cm / 9 1/4"
300 gm, 30 mm $\varnothing$



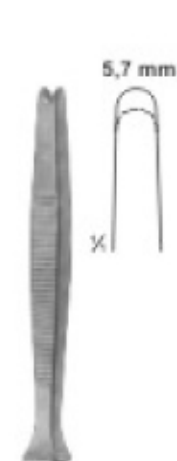
Wagner
25-115
23.5 cm / 9 1/4"
35 mm $\varnothing$



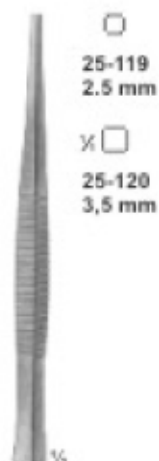
Metal head
25-116
230 gm, 35 mm $\varnothing$



Plastic head
25-117
32 gm, 35 mm $\varnothing$



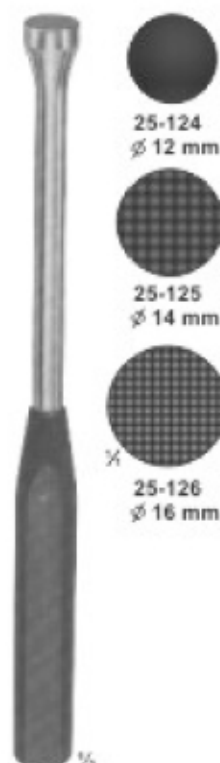
25-118
HAASE
100 mm



25-119 - 120
PASSOW
120 mm



25-121 - 123
CASPAR
200 mm



25-124 - 126
200 mm



25-127 4mm
FREER
Chisel
160 mm



25-128 4mm
FREER
Chisel, curved
160 mm



25-129 6mm
FREER
Gouge
150 mm



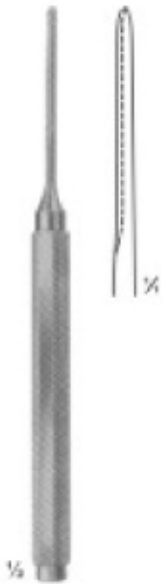
25-130 3.4mm
Scaphoid gouge,
downwards curved
135 mm



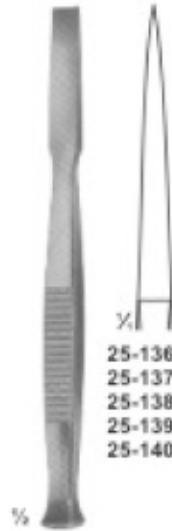
25-131 3.4mm
Scaphoid gouge,
upwards curved
135 mm



25-132 - 134
MANNERFELT modif
Osteotomes
25-132 4 mm
25-133 6 mm
25-134 8 mm
155 mm

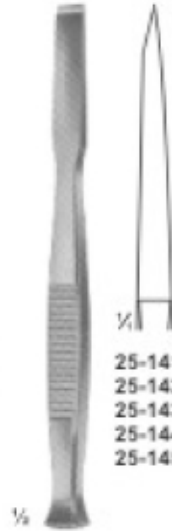


25-135 3mm
MANNERFELT modif.
Gouge
155 mm



25-136 - 140
Osteotomes
140 mm

25-136 4 mm
25-137 6 mm
25-138 8 mm
25-139 10 mm
25-140 12 mm



25-141 - 145
Chisels
140 mm

25-141 4 mm
25-142 6 mm
25-143 8 mm
25-144 10 mm
25-145 12 mm



25-146 - 150
Gouges
140 mm

25-146 4 mm
25-147 6 mm
25-148 8 mm
25-149 10 mm
25-150 12 mm



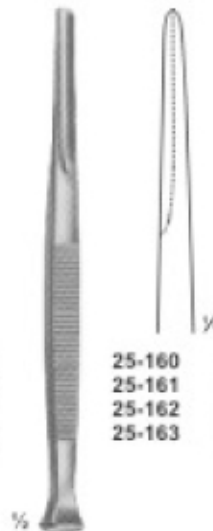
PARTSCH
25-151 - 154
Chisels
140 mm

25-151 3 mm
25-152 4 mm
25-153 5 mm
25-154 6 mm



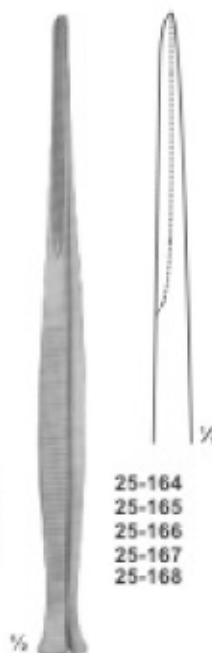
PARTSCH
25-155 - 159
Chisels
170 mm

25-155 3 mm
25-156 4 mm
25-157 5 mm
25-158 6 mm
25-159 7 mm



PARTSCH
25-160 - 163
Gouges
140 mm

25-160 3 mm
25-161 4 mm
25-162 5 mm
25-163 6 mm



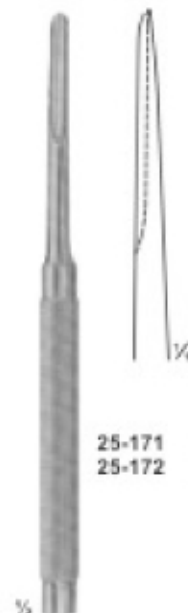
PARTSCH
25-164 - 168
Gouges
170 mm

25-164 3 mm
25-165 4 mm
25-166 5 mm
25-167 6 mm
25-168 7 mm



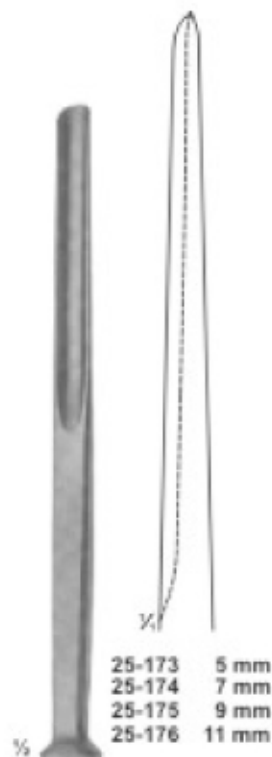
LUCAS
25-169 - 170
Chisels
160 mm

25-169 4 mm
25-170 6 mm



LUCAS
25-171 - 172
Gouges
160 mm

25-171 3 mm
25-172 5 mm

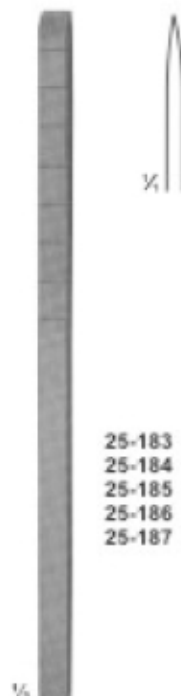


ALEXANDER
25-173 - 176
Gouges
170 mm

25-177	4 mm
25-178	6 mm
25-179	8 mm
25-180	10 mm
25-181	12 mm
25-182	15 mm

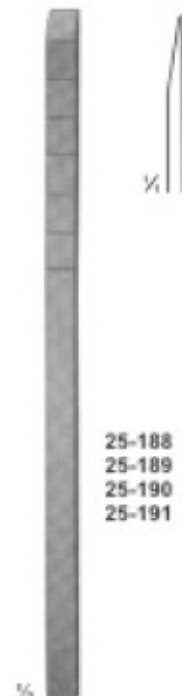


LAMBOTTE
25-177 - 182
Osteotomes
125 mm



COTTLE
25-183 - 187
Osteotomes with depth
markings
180 mm

25-183	4 mm
25-184	6 mm
25-185	8 mm
25-186	10 mm
25-187	12 mm



COTTLE
25-188 - 191
Chisel-Osteotomes
with depth markings
180 mm

25-188	4 mm
25-189	7 mm
25-190	9 mm
25-191	12 mm



COTTLE
25-192 8mm
Fishtail Chisel,
with protected ends
180 mm



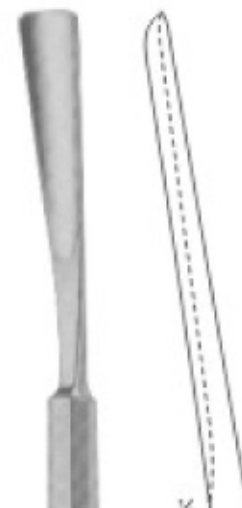
25-193	10 mm
25-194	12 mm
25-195	15 mm
25-196	20 mm
25-197	25 mm

STILLE
25-193 - 197
Chisels
205 mm



25-198	10 mm
25-199	12 mm
25-200	15 mm
25-201	20 mm
25-202	25 mm

STILLE
25-198 - 202
Gouges
205 mm



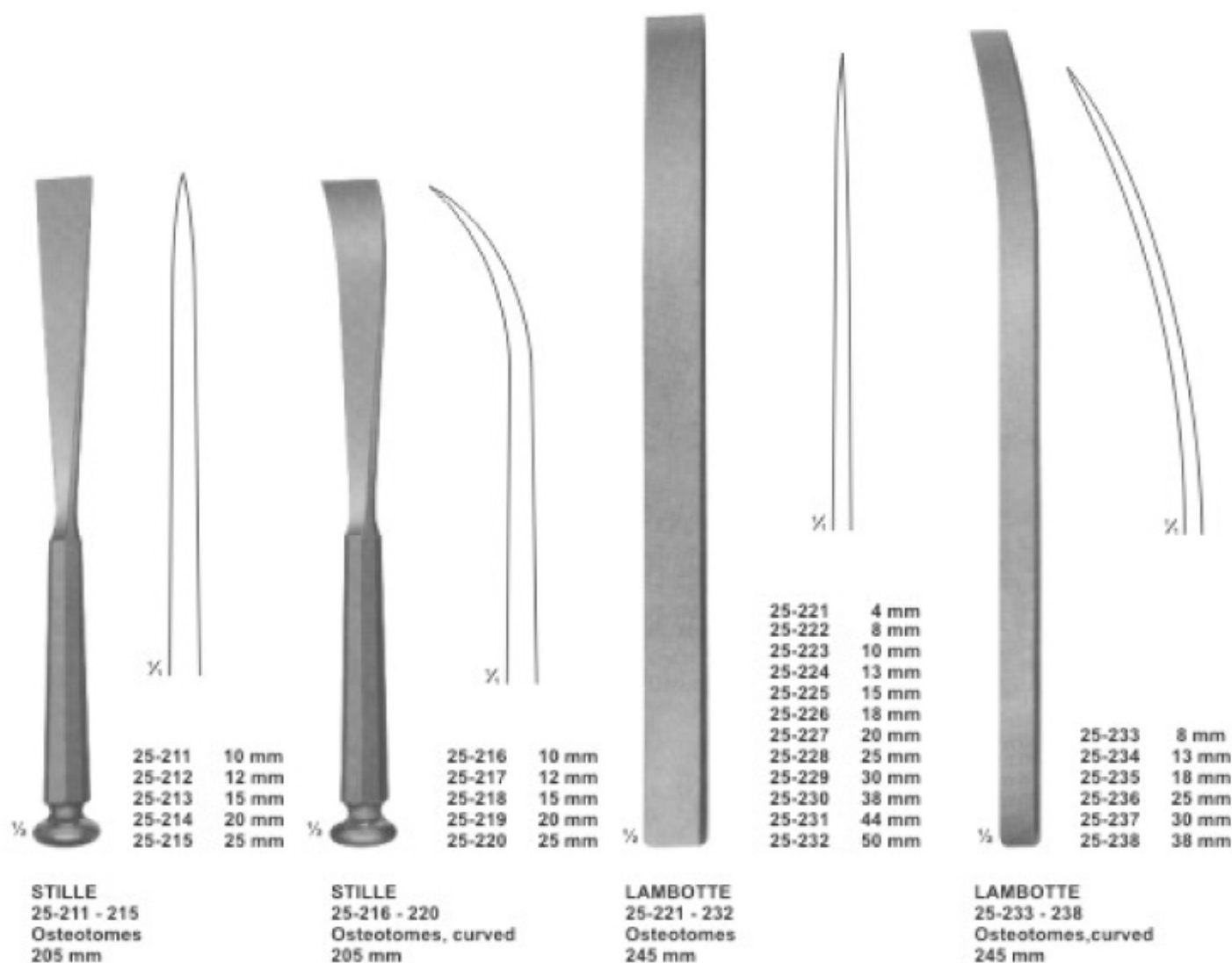
25-203	10 mm
25-204	15 mm

WALTER
25-203 - 204
gouges for taking
grafts from the ribs
205 mm



25-205	8mm
25-206	10 mm
25-207	12 mm
25-208	15 mm
25-209	20 mm
25-210	25 mm

STILLE
25-205 - 210
Osteotomes
205 mm





25-239 4 mm
25-240 6 mm
25-241 8 mm
25-242 10 mm
25-243 12 mm

LEXER-MINI
25-239 - 243
Osteotomes
180 mm



25-244 4 mm
25-245 6 mm
25-246 8 mm
25-247 10 mm
25-248 12 mm

LEXER-MINI
25-244 - 248
Gouges
180 mm



25-249 5 mm
25-250 7 mm
25-251 10 mm
25-252 15 mm
25-253 20 mm
25-254 25 mm
25-255 30 mm

LEXER
25-249 - 255
Gouges
220 mm



25-256 5 mm
25-257 7 mm
25-258 10 mm
25-259 15 mm
25-260 20 mm
25-261 25 mm
25-262 30 mm

LEXER
25-256 - 262
Osteotomes
220 mm



25-263 9mm
Gouge for
removing broken
screws
220 mm



25-264 5,5 mm
25-265 9,0 mm

ZIELKE
25-264 - 265
Gouges for
scoliosis-operations
230 mm

Can be sterilized in a
stream sterilizer upto
3 bar over pressure
(143 C).



25-266 10 mm
25-267 15 mm

LEXER
25-266 - 267
Osteotomes,
angled
275 mm

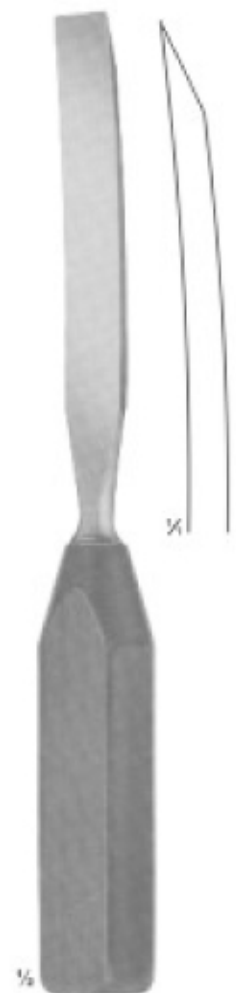


25-268 10 mm
25-269 15 mm

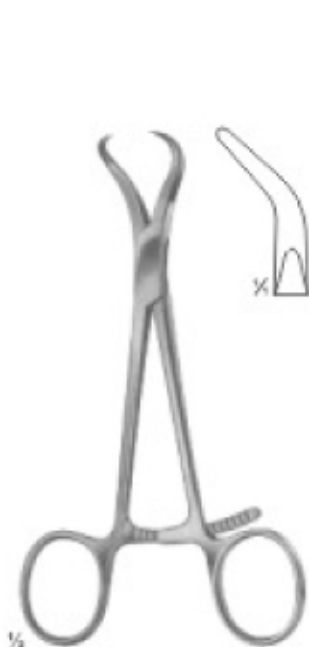
LEXER
25-268 - 269
Gouges,
angled
275 mm



25-270 20mm
Chisel
245 mm



25-271 16mm
Chisel, curved
265 mm



26-101
Reposition forceps,
for small fragments
135 mm



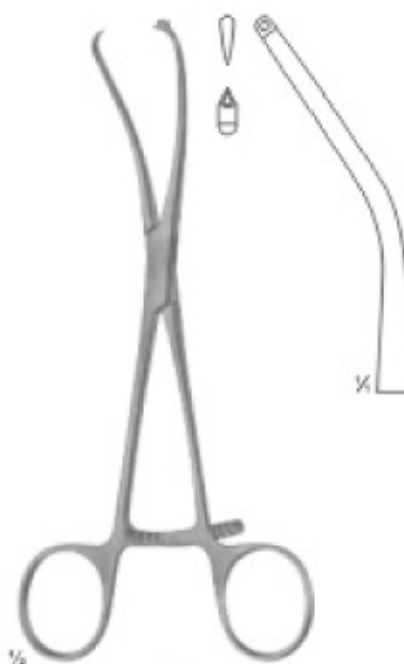
26-102
HAASE
Reposition forceps,
for mandibular
fractures
165 mm



26-103
REILL
Reposition forceps,
170 mm



26-104
Reposition forceps
205 mm



26-105
MEYER
Reposition forceps
for fingers, with drill
guide for KIRSCHNER
wires up to diam. 1.0 mm
170 mm



26-106
Patella forceps
185 mm



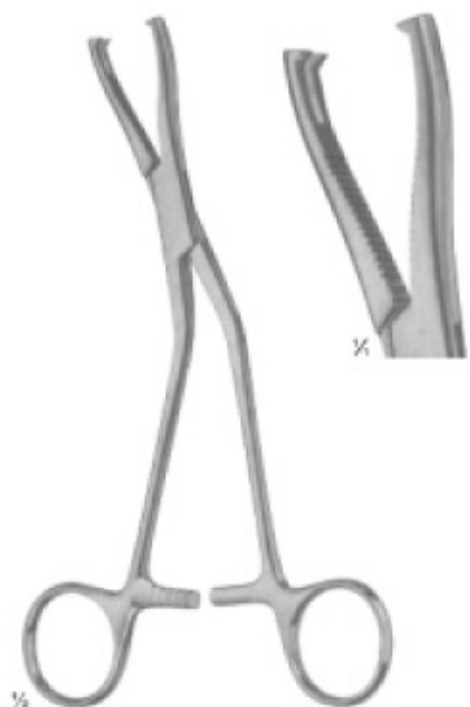
26-107
Forceps with
ratchet fixation
140 mm



26-108
Forceps with
thread fixation
170 mm



26-109
Forceps with
thread fixation
235 mm



26-110
DINGMANN modif
185 mm



26-111
Sequestrum
forceps
200 mm



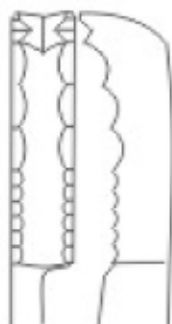
26-112
VAN BUREN
Sequestrum
forceps
225 mm



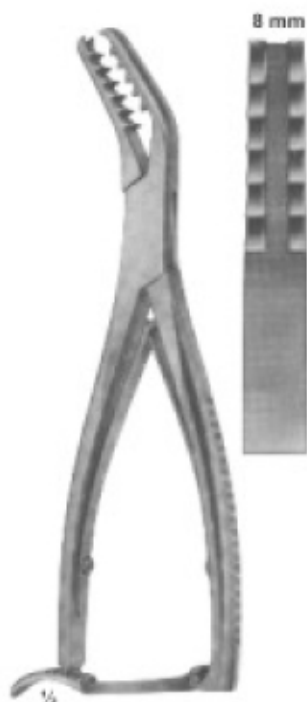
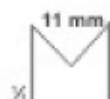
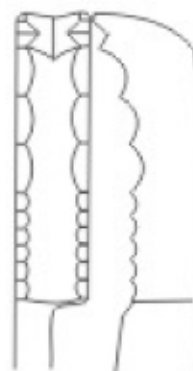
26-113
LANGENBECK
205 mm



26-114
FERGUSON
205 mm



jaw adjustable



26-115
SEMB
190 mm



FARABEUF
26-116 19 cm
26-116A 23 cm
26-116B 26 cm
Adjustable



26-117
FARABEUF
255 mm



FARABEUF-LAMBOTTE
26-118 19 cm
26-118A 23 cm
26-118B 26 cm
Adjustable



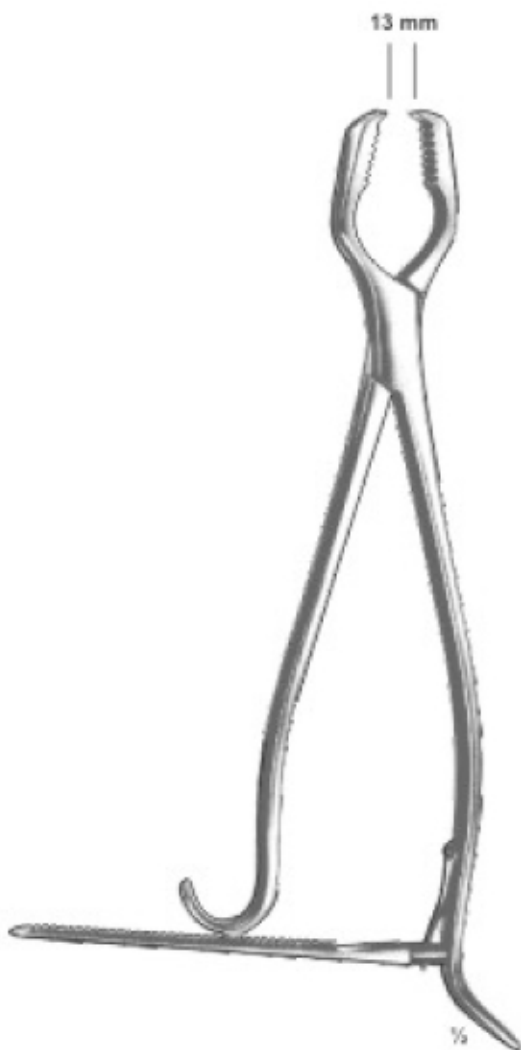
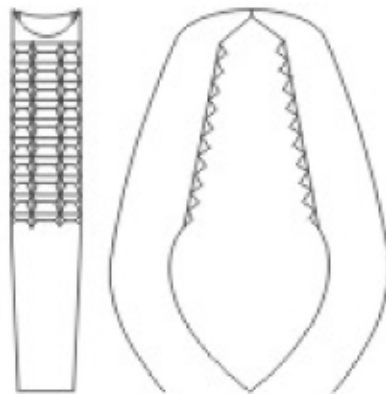
26-119
KERN-LANE
240 mm



26-120
LANE
330 mm



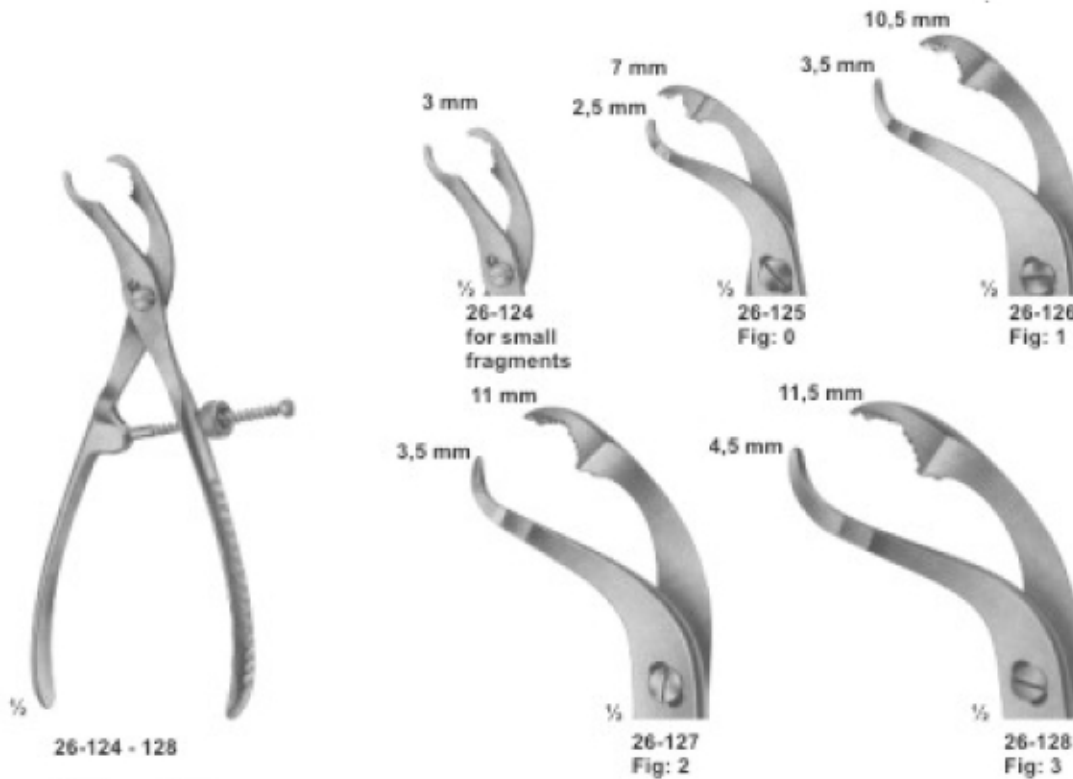
26-121
KERN-LANE
240 mm



LANE
26-122
30 cm
26-122A
32.5 cm
Bone holding forceps
Standard model, without ratchet
26-122B
32.5 cm
Standard model, with ratchet
26-122C
42.5 cm
With ratchet



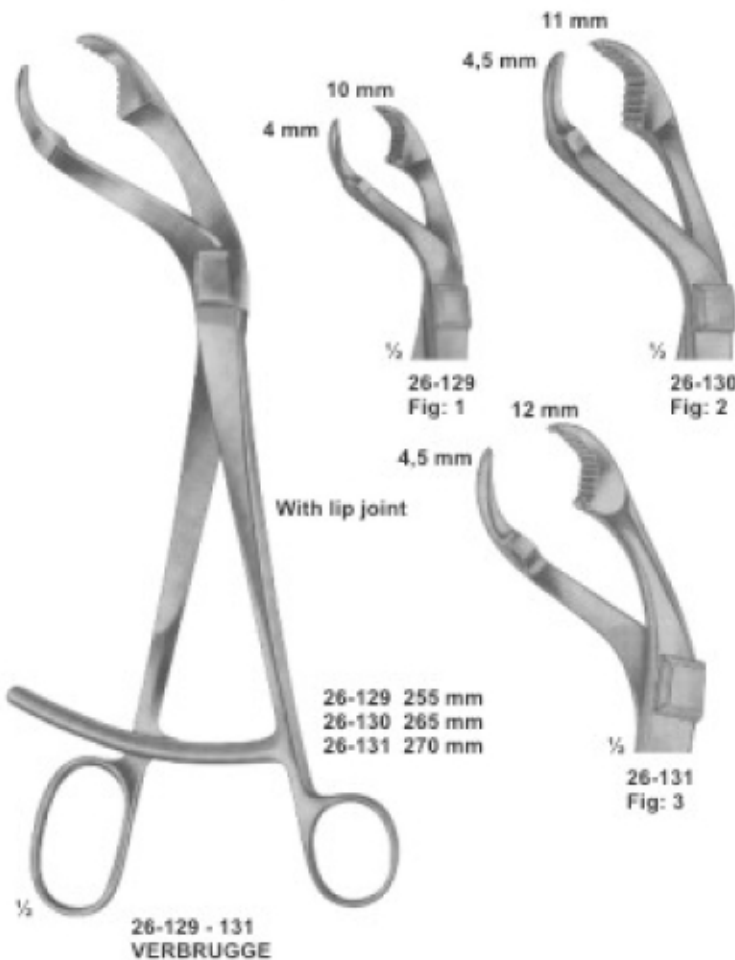
HEY GROVES
26-123
42.5 cm
With ratchet
21 cm
26-123A
25 cm
26-123B
30.5 cm



26-124 - 128

26-124 145 mm
26-125 190 mm
26-126 240 mm
26-127 260 mm
26-128 280 mm

Self-centering forceps
with thread fixation



26-129 255 mm
26-130 265 mm
26-131 270 mm

26-129 - 131
VERBRUGGE





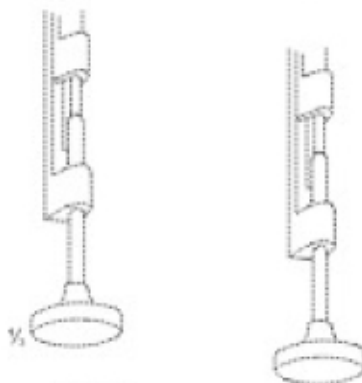
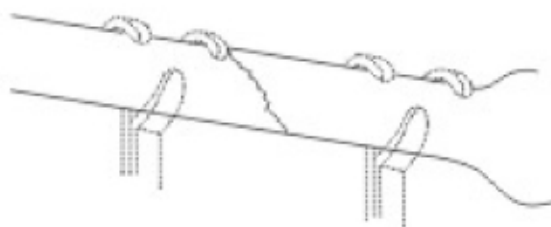
26-133 - 134
LOWMAN
26-133 170 mm
26-134 205 mm



26-135
LOWMAN-GERSTER
210 mm



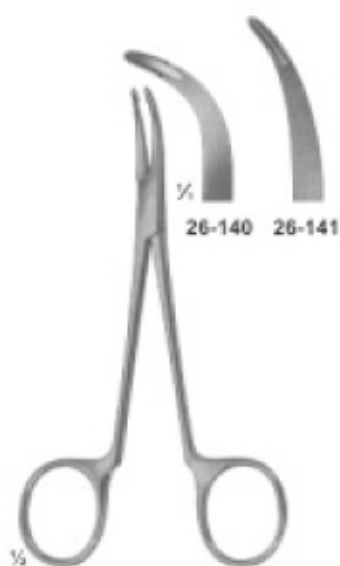
26-136
LOWMAN-HOGLUND
175 mm



26-137
GERSTER
Traction bar for 26-133-136



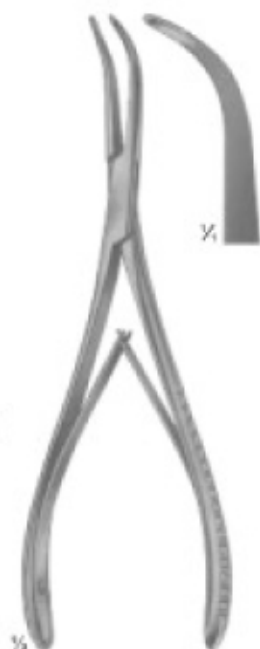
26-138 - 139
Synovectomy rongeur
width of jaws 1.2 mm
130 mm



26-140 - 141
Synovectomy rongeur
width of jaws 2.0 mm
130 mm



26-142
STELLBRINK
Synovectomy rongeur
175 mm



26-143
STELLBRINK
Synovectomy rongeur
170 mm



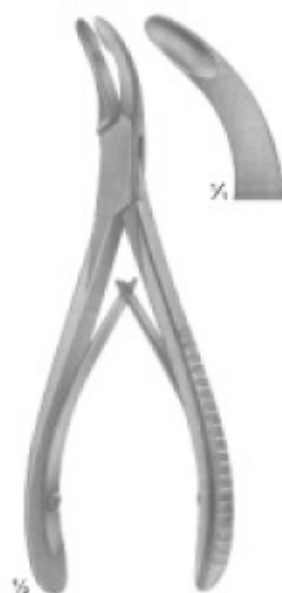
26-144
LUER-FRIEDMANN
145 mm



26-145
140 mm



26-146
LUER
150 mm



26-147
LUER
155 mm



26-148
BLUMENTHAL
155 mm



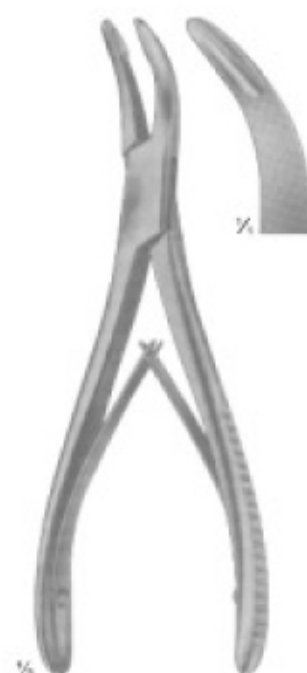
26-149
BLUMENTHAL
150 mm



26-150 26-151



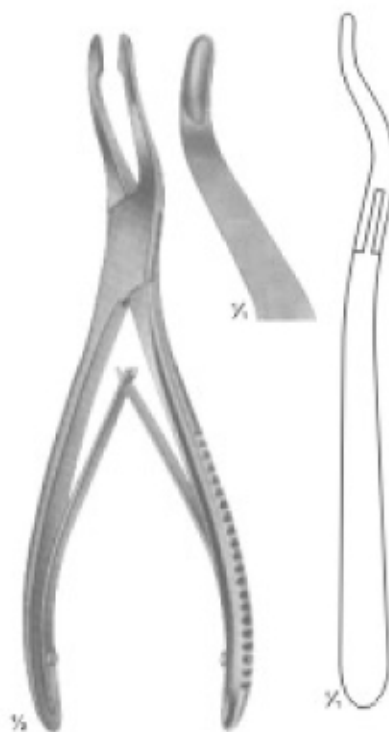
26-150 - 151
JANSEN
175 mm



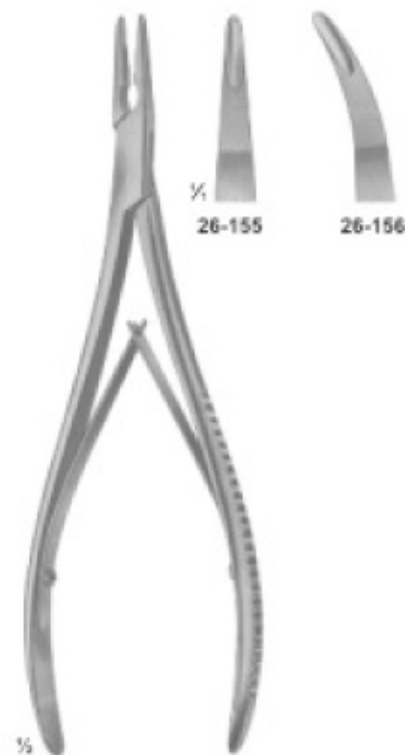
26-152
BANE-HARTMANN
175 mm



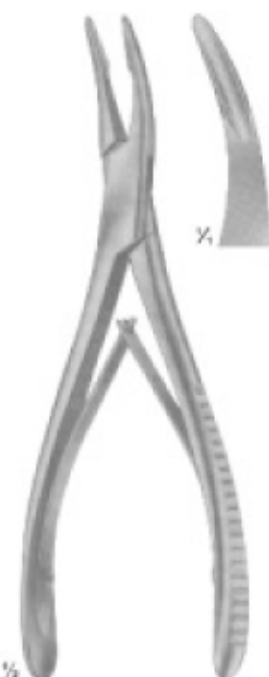
26-153
ALEXANDER
140 mm



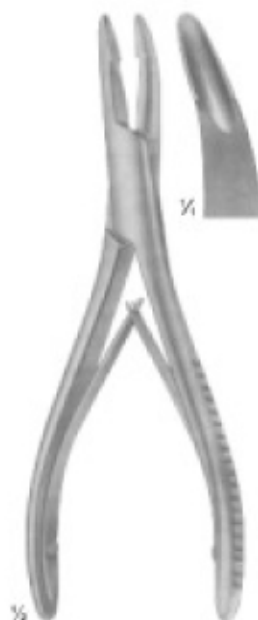
26-154
JANSSEN
190 mm



26-155 - 156
LEMPERT
200 mm



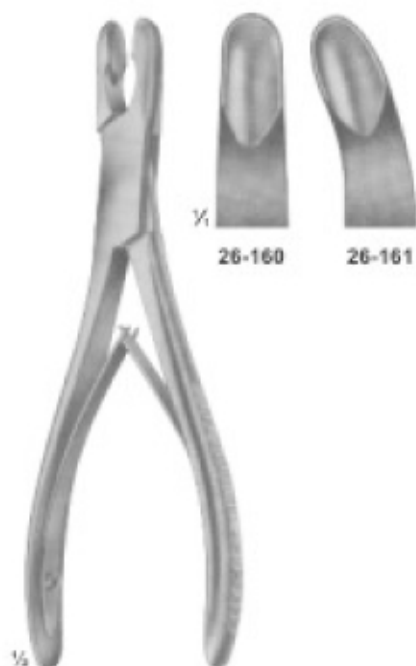
26-157
BEYER
180 mm



26-158
MEAD
165 mm



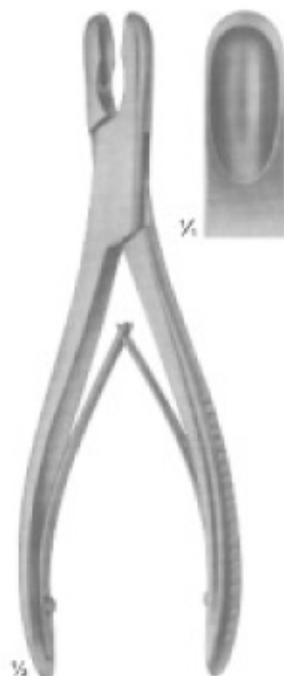
26-159
MEAD
165 mm



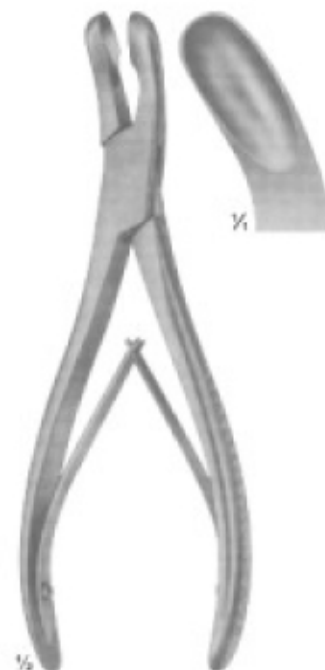
26-160

26-161

26-160 - 161
LUER
175 mm



26-162
LUER
180 mm



26-163
LUER
180 mm



26-164
OLIVECRONA
205 mm



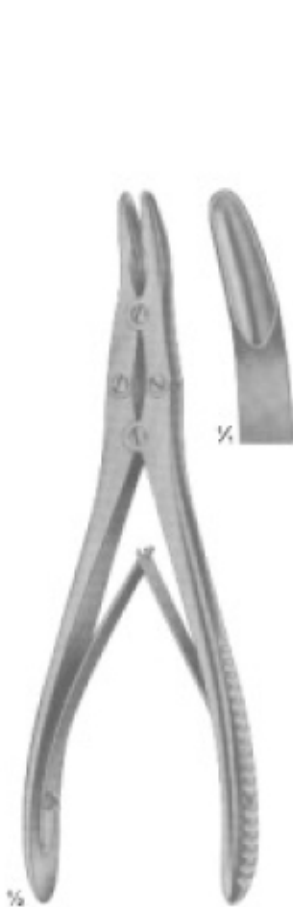
26-165

26-166

26-165 - 166
BOHLER
155 mm



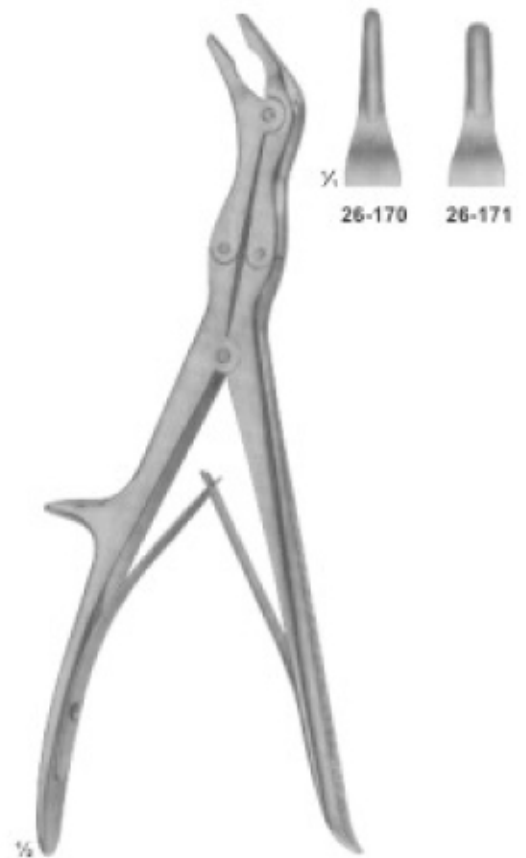
26-167
MARQUARDT
200 mm



**26-168
RUSKIN
190 mm**



**26-169
ROETTGEN-RUSKIN
240 mm**



**26-170 - 171
ECHLIN
230 mm**



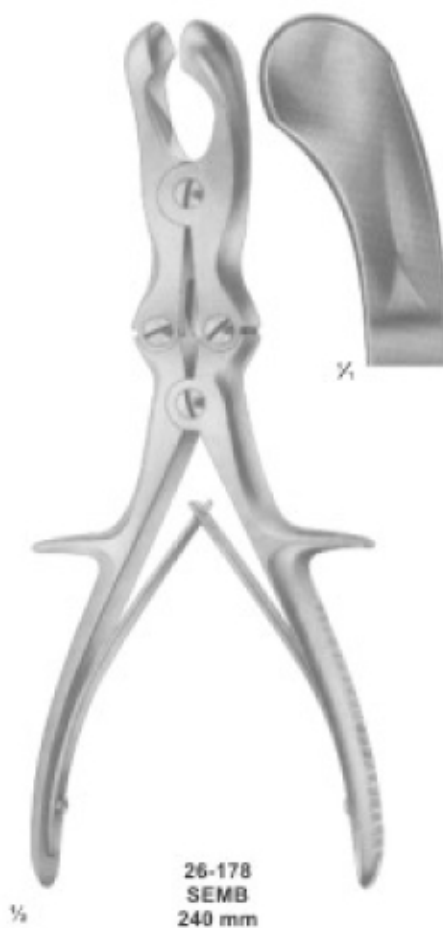
26-172
STILLE
235 mm



26-173
LEKSELL-STILLE
240mm



26-174
STILLE-RUSKIN
240mm





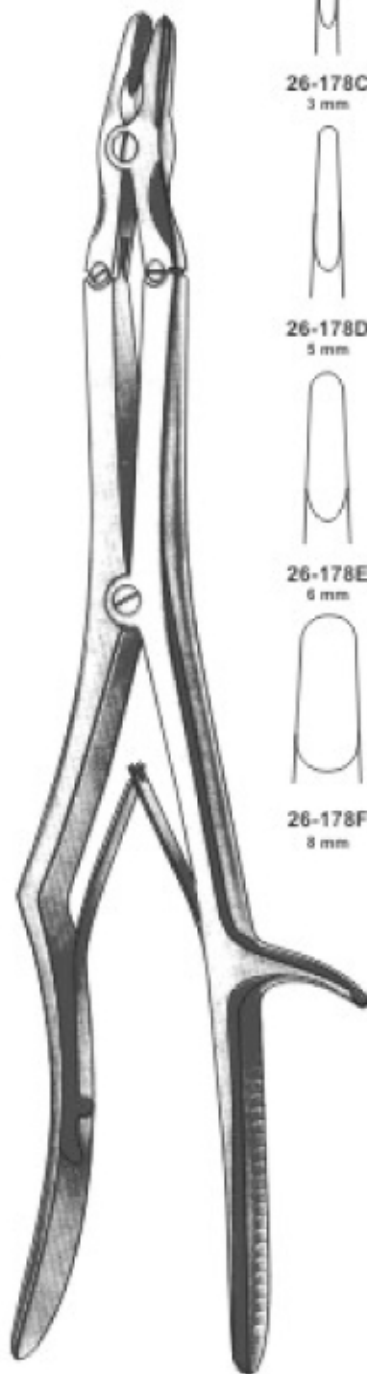
26-178A



26-178B



SAUERBRUCH
30 cm



SYPERT
36 cm



26-178C
3 mm



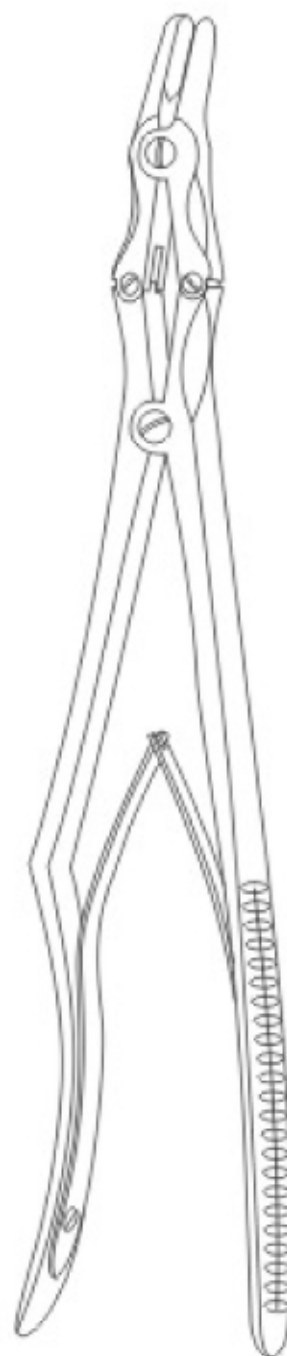
26-178D
5 mm



26-178E
6 mm



26-178F
8 mm



DALE



26-178G
3 mm



26-178H
5 mm



26-178J
6 mm



26-178K
8 mm



**26-179
STAMM**
150 mm



**26-180
KAZANJIAN**
185 mm



**TESSIER
26-180A**
20.5 cm
Slim pattern



**MARKWALDER
26-180B**



**26-181 - 184
LISTON**



26-181
14 cm



26-182
17 cm



26-183
19 cm



26-184
22 cm



**26-185 - 187
LISTON**



26-185
14 cm



26-186
17 cm



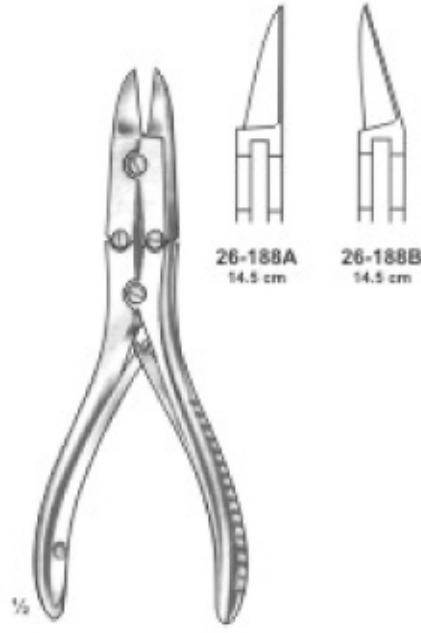
26-187
19 cm



26-187A
22 cm



26-188
BOEHLER
145 mm



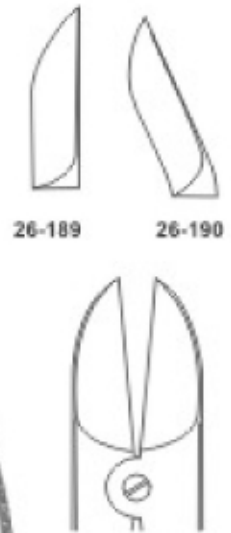
26-188A to 26-188B
BOEHLER
145 mm

26-188A
14.5 cm

26-188B
14.5 cm

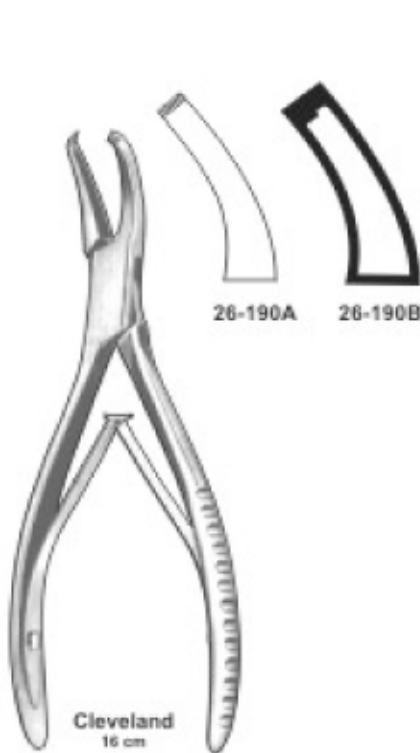


RUSKIN-LISTON
190 mm



26-189

26-190



Cleveland
16 cm

26-190A

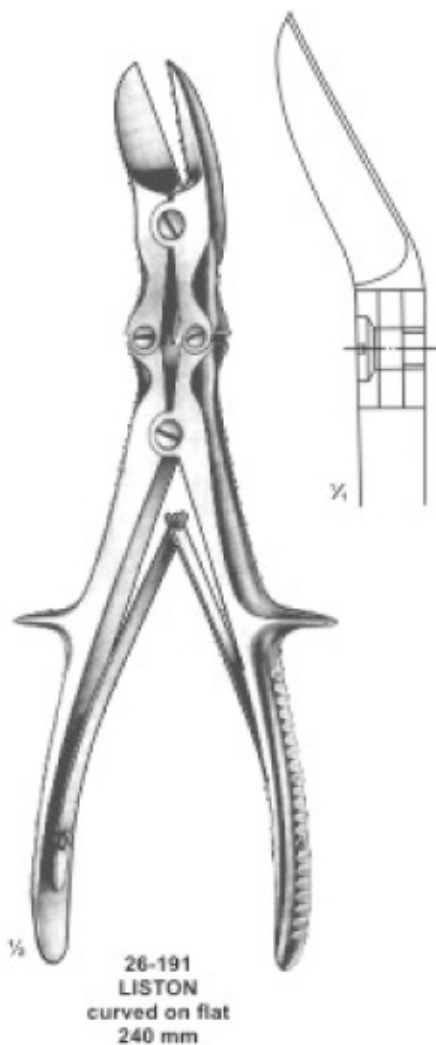
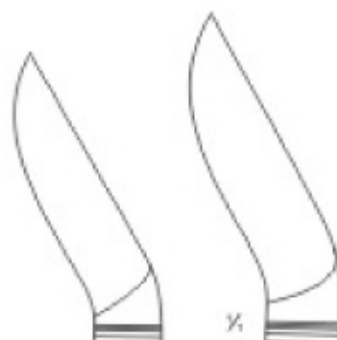
26-190B

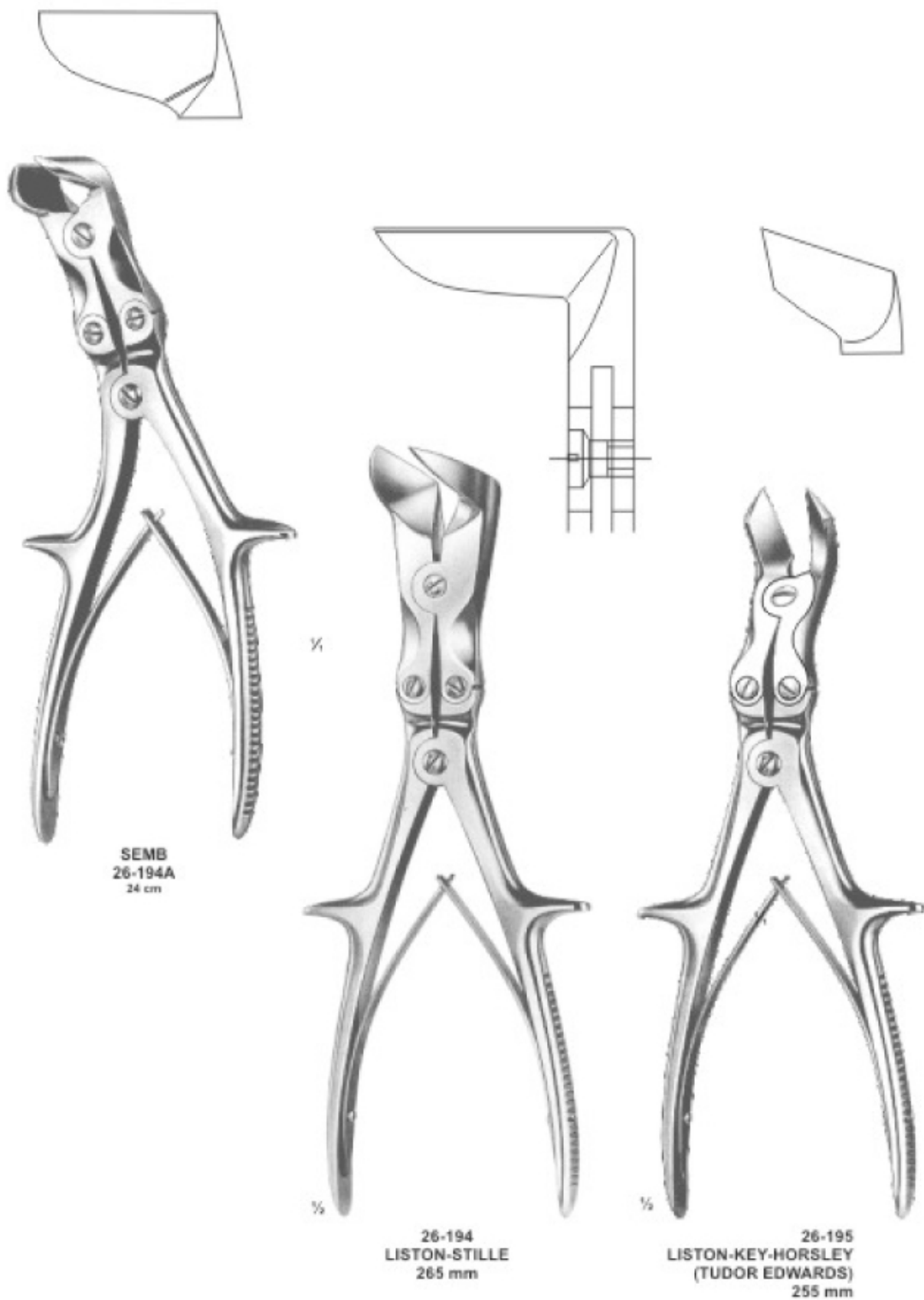


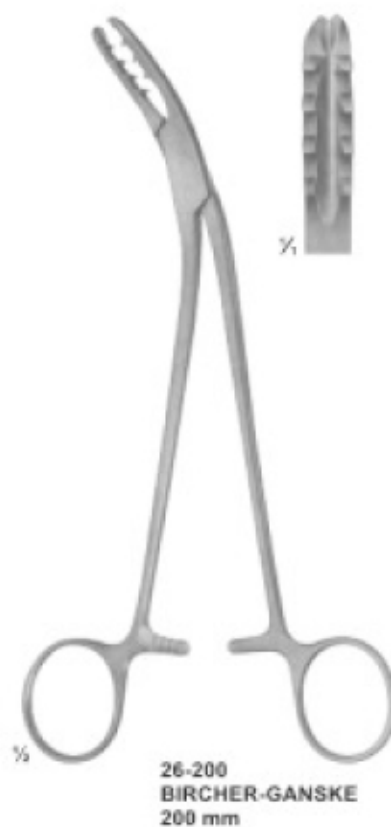
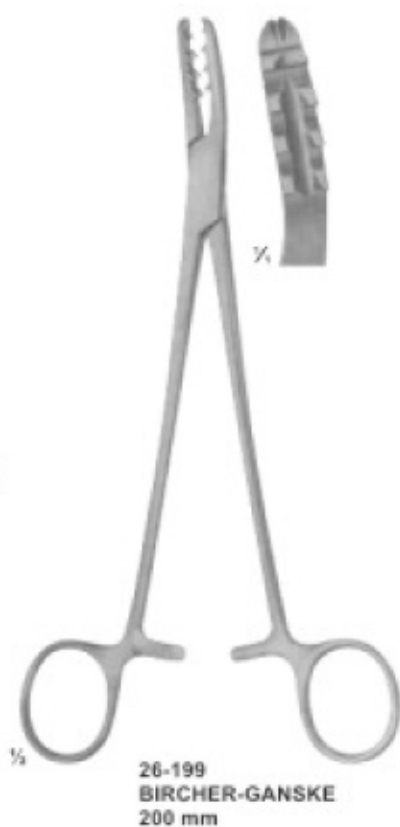
Cleveland
26-190C
15 cm

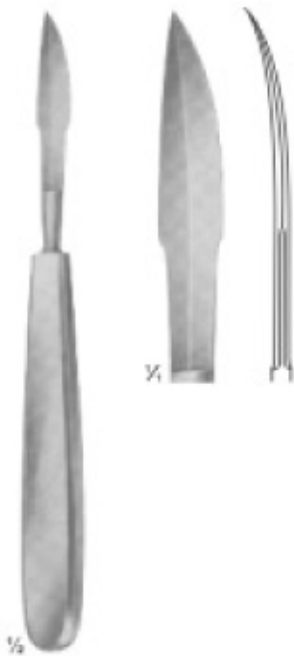


Cleveland
26-190D
17 cm
26-190E
15 cm









26-202
170 mm



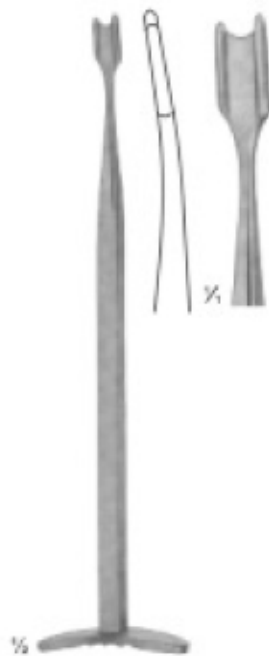
26-203
NEFF
215 mm



26-204
NEFF
215 mm



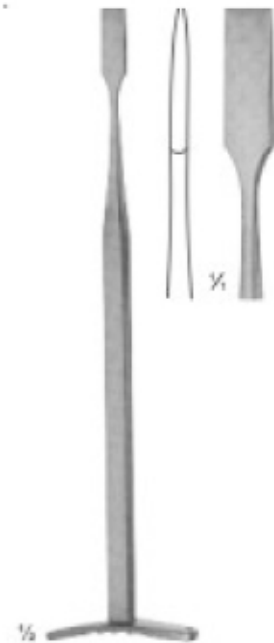
26-205
WAGNER
215 mm



**26-206
SMILLIE
170 mm**



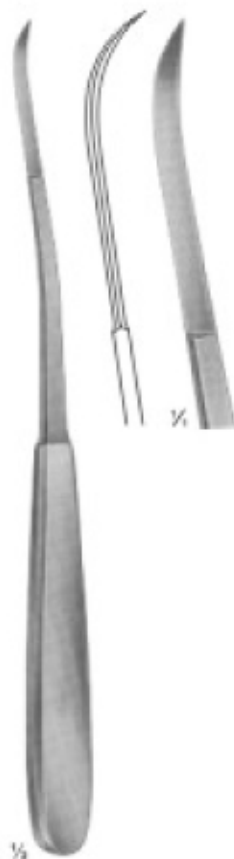
**26-207
SMILLIE
170 mm**



**26-208
SMILLIE
170 mm**



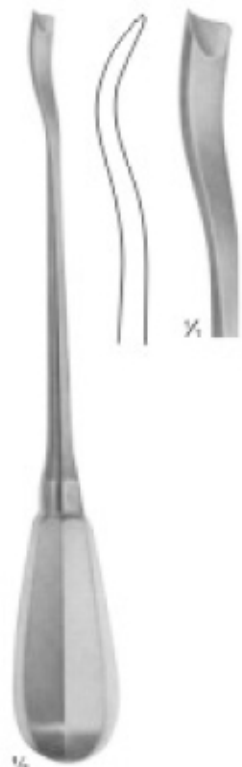
**26-209
SALENIUS
220 mm**



**26-210
SALENIUS
220 mm**

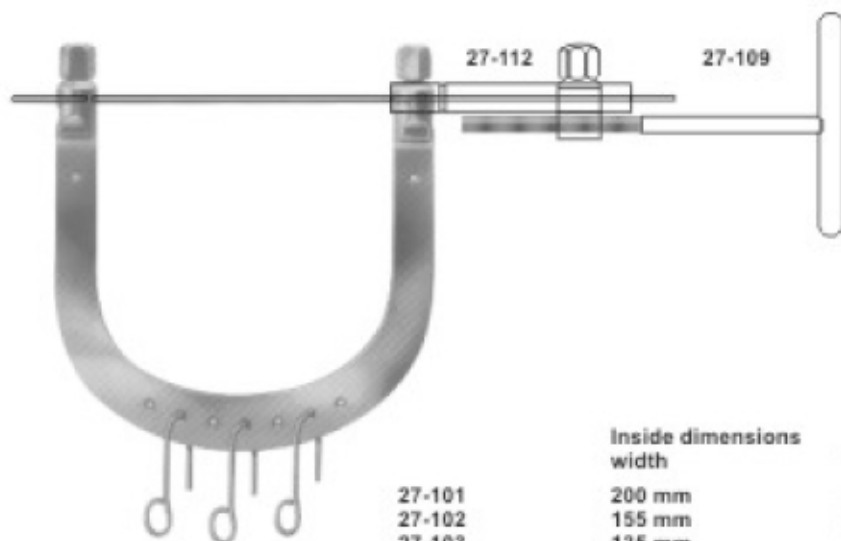


**26-211
CANAD. MODELL
200 mm**



**26-212
CANAD. MODELL
200 mm**

379



27-101 - 107
KIRSCHNER
Wire traction bows,
to be used with
KIRSCHNER-wires
up to 2.5 mm diam.,
With 3 hooks,
stainless steel

	Inside dimensions width	depth	
27-101	200 mm	155 mm	for the hip
27-102	155 mm	155 mm	for the femur
27-103	135 mm	130 mm	for the knee
27-104	120 mm	120 mm	for the knee
27-105	105 mm	100 mm	for the knee
27-106	95 mm	110 mm	for the calcaneus
27-107	95 mm	70 mm	for the arm and elbow



27-108
Wrench, double - ended,
for wire traction bows 27-101 - 27-115



27-109
Wire tightener, with
clamping jaws



27-110
Traction hook only,
large size



27-111
Traction hook only,
small size



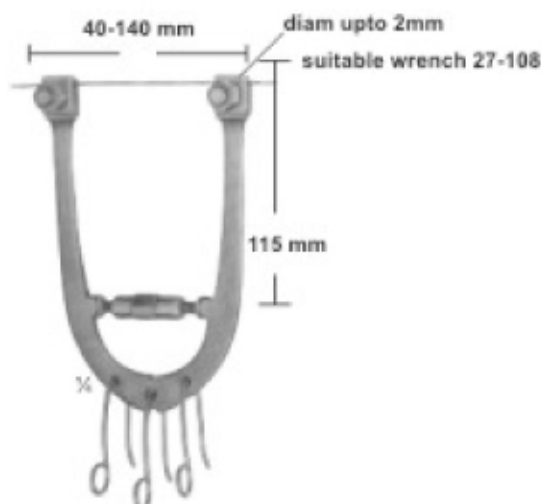
Kuentscher
26 cm
27-111A 8 mm
27-111B 10 mm
27-111C 12.5 mm



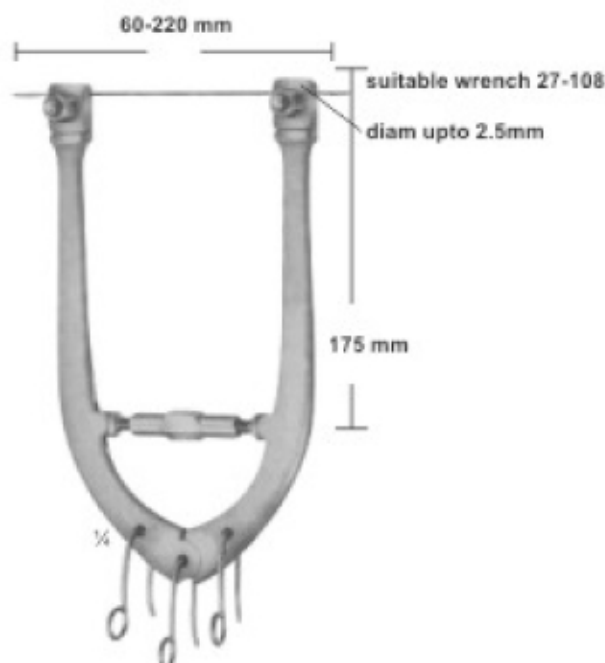
Kuentscher
27-111D
35 cm



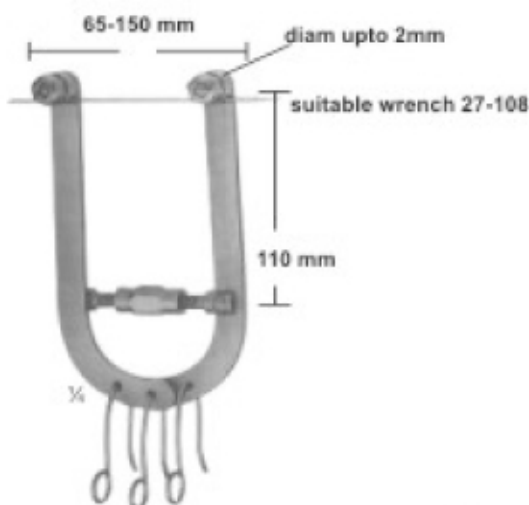
27-112
Fixation clamp, to secure clamping
jaws of 27-109 stainless steel



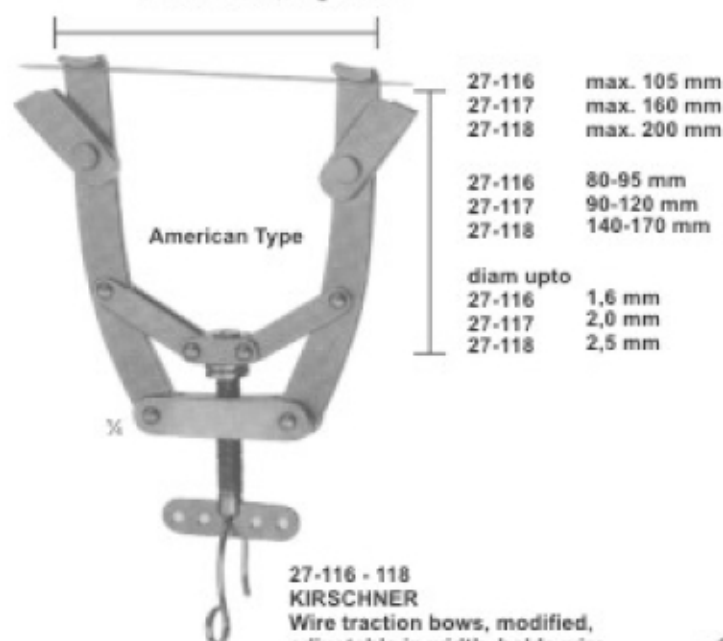
27-113
Wire traction bow, adjustable,
with 3 hooks, small size



27-114
Wire traction bow, adjustable,
with 3 hooks, large size



27-115
Wire traction bow, adjustable,
with 3 hooks, small size for
elbow and calcaneus, for
adolescents



American Type

27-116 - 118
KIRSCHNER
Wire traction bows, modified,
adjustable in width, holds wire
securely, with 1 hook



27-119
Fixation disc, slotted



27-121
Fixation disc, slotted



27-120
idem, aluminum, transparent
to X-rays



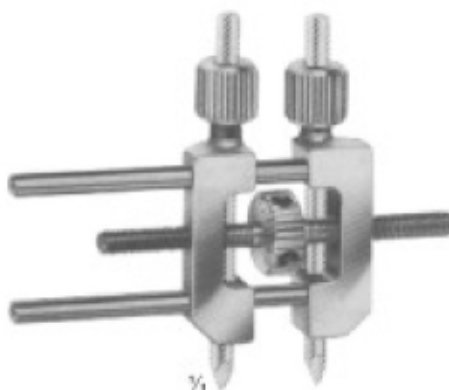
27-122
Screw driver, for above
fixations discs



Boehler traction bows, to be used with STEINMANN pins, 4mm diam	Boehler traction bows, to be used with STEINMANN pins, 5mm diam	Inside width	For
27-123 with pin (27-135)		16x9cm	Arm
27-124 without pin	27-129 without pin		
27-125 with pin (27-137)		21x11cm	Femur and knee
27-126 without pin	27-130 without pin		
27-127 with pin (27-139)		21x15cm	Femur and knee
27-128 without pin			



27-146
SCHWARZ
 Traction bow for fingers,
 to be used with KIRSCHNER-
 wire up to 1.6 mm diam.



27-147
 Small distractor
 as a repositioning device for
 distraction and compression of small bones,
 for wires with 3.0 mm diam.



27-131 - 145
STEINMANN
 triangular shaft ended and trocar point

diamØ	4,0 mm	5,0 mm
Length		
80 mm	27-131	
100 mm	27-132	
120 mm	27-133	
140 mm	27-134	
150 mm	27-135	27-141
160 mm	27-136	
180 mm	27-137	27-142
200 mm	27-138	27-143
210 mm	27-139	
250 mm	27-140	27-144
300 mm		27-145



27-148
 Protection cap
 for 4,0 mm STEINMANN Pins



27-149
 Protection cap
 for 5,0 mm STEINMANN Pins



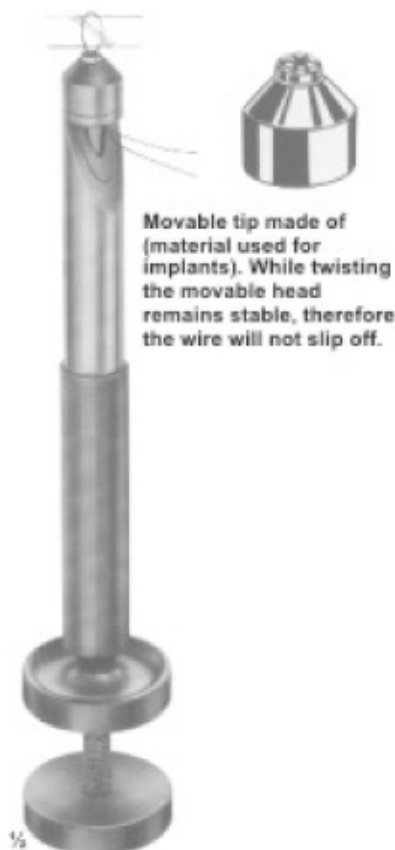
27-150
REILL
Drilling chuck, cannulated, for shanks from 2.0 - 2.5 mm diam 115 mm



27-151
Drilling chuck, cannulated, for shanks from 0.8 - 2.0 mm diam 150 mm



27-152
Drilling chuck, cannulated, for shanks up to 4.5 mm diam with key (27-156) 140 mm



27-153
LOUTE
Wire tightener, improved pattern, with movable tip, for wires up to 1.0 mm diam. 220 mm

Chuck jaws made of material used for implants



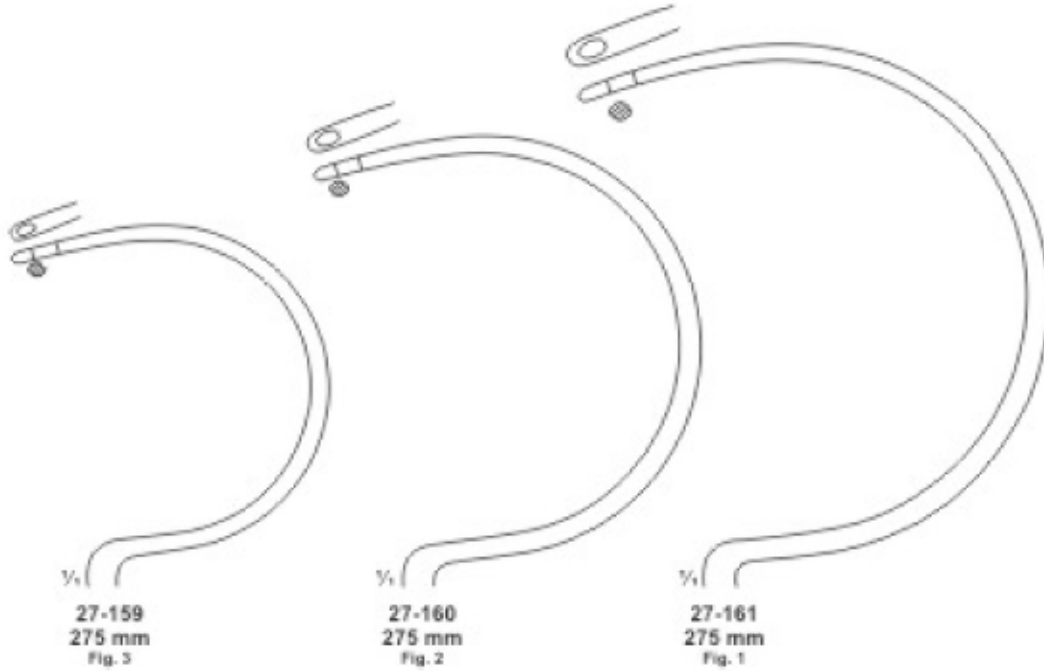
27-154
Drilling chuck, cannulated, for shanks up to 6.35 mm diam., To be tightened by hand 100 mm



27-155
Drilling chuck, cannulated, for shanks up to 4.5 mm diam., And for triangular shaft width across flats 4.7 mm (schanz screws, steinmann pins). with key (27-156)



27-157
Drilling chuck, cannulated, for shanks up to 6.35 mm diam., With key (27-158) 160 mm



27-159 - 161
DEMEL
Wire guides

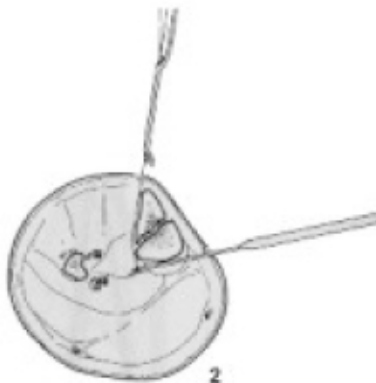


GRAFT PASSER
27-164A
XL-Large
Curved
Slot cut into head





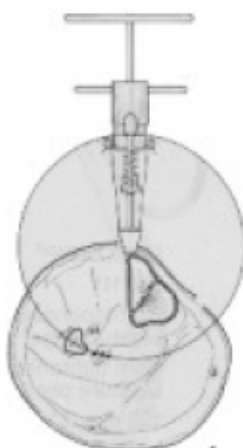
1



2



3



4



5



6



27-165
JORDAN
Wire tightener



1/2

27-166
JORDAN
Wire twister
170 mm



1/2

27-167
JORDAN
Wire catcher
180 mm



1/2

27-168
JORDAN
Probe, cannulated
170 mm



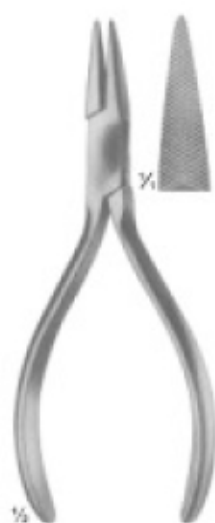
**27-169
DUROGRIP**
Holding forceps for cerclage
wire, with lateral jaws to avoid
wire slipping off
170 mm



**27-170
DUROGRIP**
Wire, tightening pliers,
Ligature pliers
150 mm



**27-171
DUROGRIP**
Wire, tightening pliers,
Ligature pliers
150 mm



27-172
with serrated jaws
140 mm



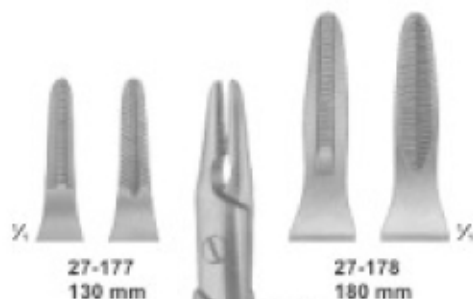
27-173
one jaw smooth,
one jaw serrated
140 mm



27-174
with serrated jaws
27-175
with longitudinal and
transversal grooves
170 mm



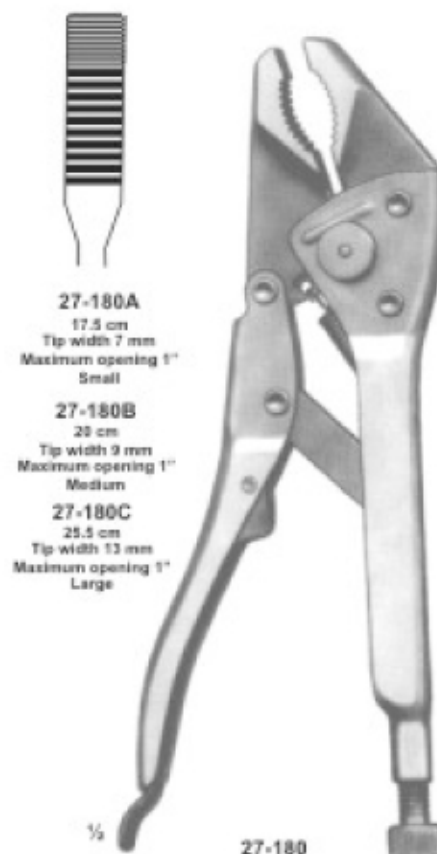
27-176
190 mm



27-177 - 178
Extraction pliers
for boring wires



FLAT-NOSED PLIERS
PARALLEL

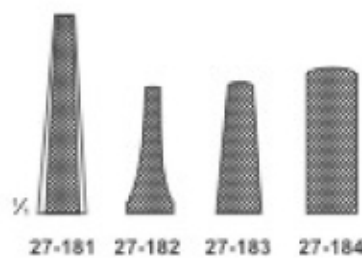


27-180
Vise grip
200 mm

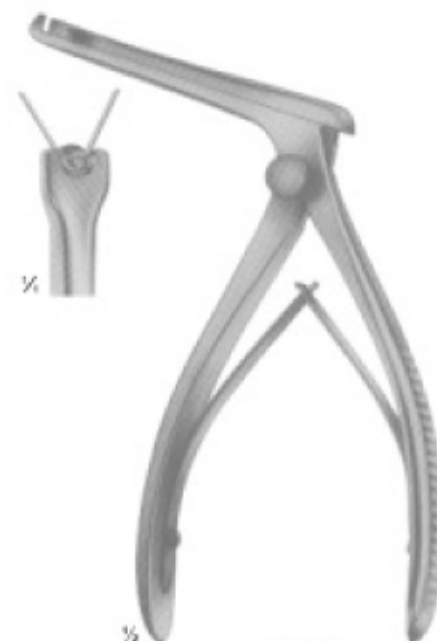
387



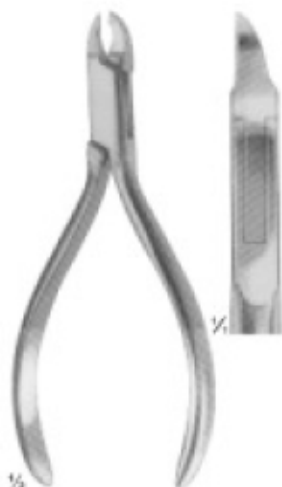
27-181 - 184
ROUND PLIERS
180mm



27-182 145 mm
27-183 180 mm
27-184 180 mm
Extraction pliers for wires

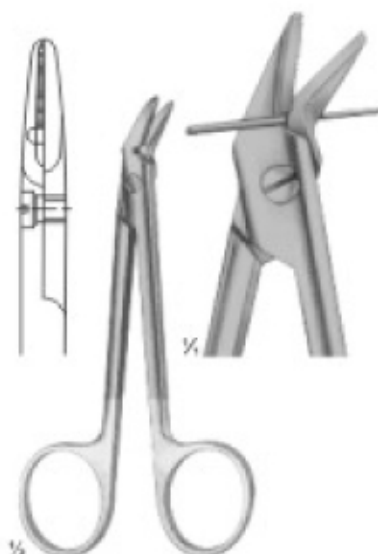


27-185
Bending pliers
for wires up to
1.8 mm diam.



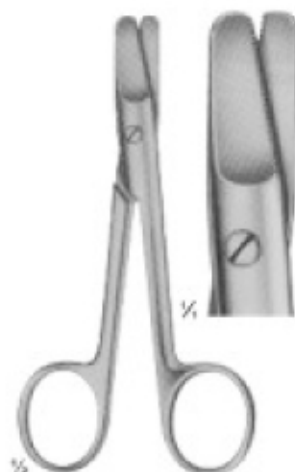
27-186 27-187
ANGLE DUROTIP
130 mm ANGLE
130 mm

for soft wire up to diam.	0,5 mm	0,6 mm
for hard wire up to diam.	0,3 mm	0,4 mm



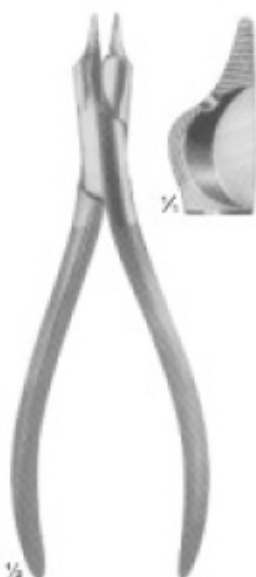
27-188 27-189
120 mm DUROTIP
120 mm

for soft wire up to diam.	1,2 mm	1,2 mm
for hard wire up to diam.	0,8 mm	0,8 mm



27-190
HARVEY
125 mm

0,4 mm
0,3 mm



27-191
150 mm

for soft wire up to diam	1,5 mm
for hard wire up to diam	1,0 mm



27-192
160 mm

1,5 mm
1,2 mm



27-193
140 mm
DUROTIP

1,5 mm
1,0 mm



for soft wire
up to diam. 2,0 mm
For hard wire 1,5 mm
up to diam
specially hardened
cutting edges, front
and lateral cutting
action



for soft wire
up to diam. 2,0 mm
For hard wire 1,6 mm
up to diam
specially hardened
cutting edges, for
cutting off wires close
to the bone



for soft wire
up to diam. 3,0 mm
For hard wire 2,2 mm
up to diam



27-197A
16 cm



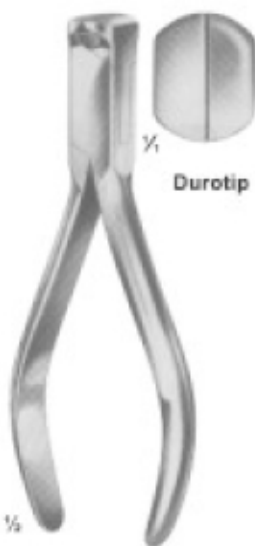
27-197B
16 cm
for soft wires up to 2.5 mm
for hard wires up to 2.0 mm



specially
hardened
cutting
edges

27-197
240 mm

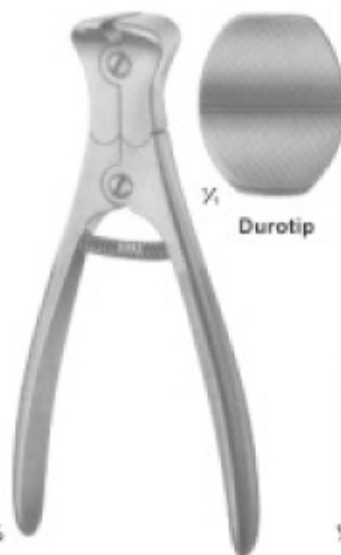
for soft wire
up to diam. 2.0 mm
For hard wire
up to diam 1.6 mm



Durotip

27-198
145 mm

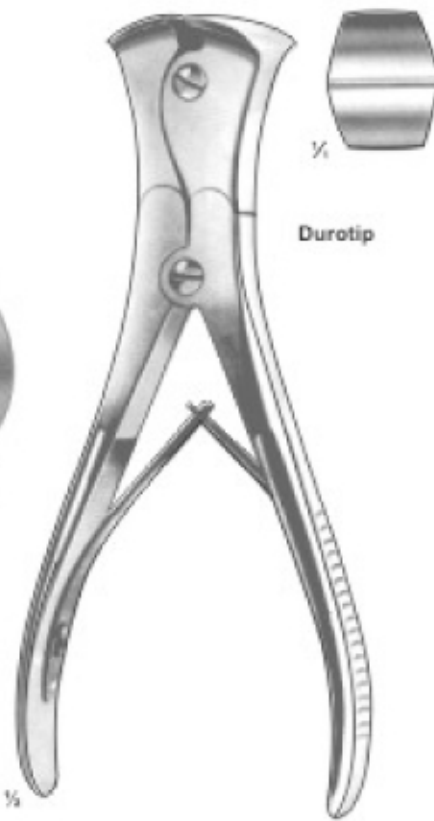
for soft wire
up to diam. 1.5 mm
For hard wire
up to diam 1.0 mm



Durotip

27-199
145 mm

for soft wire
up to diam. 2.0 mm
For hard wire
up to diam 1.5 mm



Durotip

27-200
220 mm

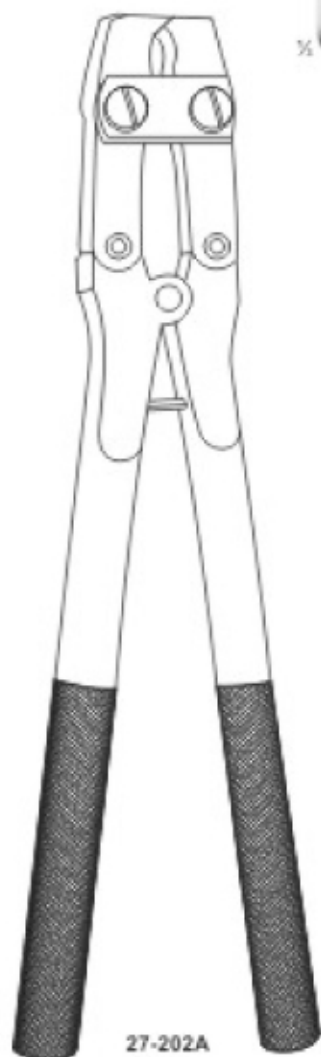
for soft wire
up to diam. 3.5 mm
For hard wire
up to diam 2.5 mm



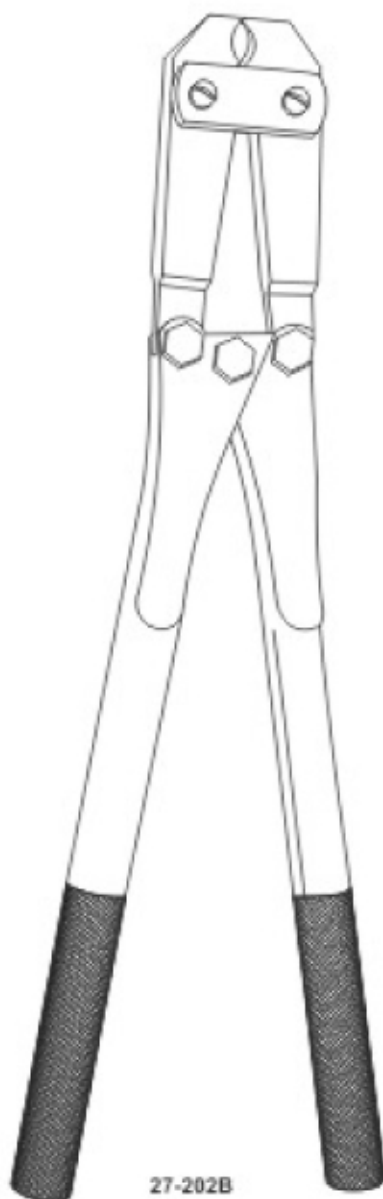
27-201
320 mm



for soft wire
up to diam. 3,0 mm
For hard wire
up to diam 3,0 mm



27-202A
25 cm
For wires up to 3.0 mm
Head cutter

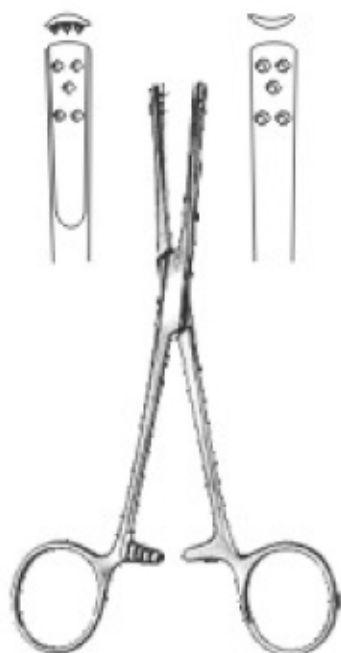


27-202B
38 cm
For wires up to 4.0 mm
Head cutter



DUROTIP

27-202
Cutter for cutting off
KIRSCHNER wires,
Tibia head screws,
bolts, pins, up to 6 mm diam.
470 mm



PENNER
27-203A
15.5 cm



27-203
RADOLF
135 mm



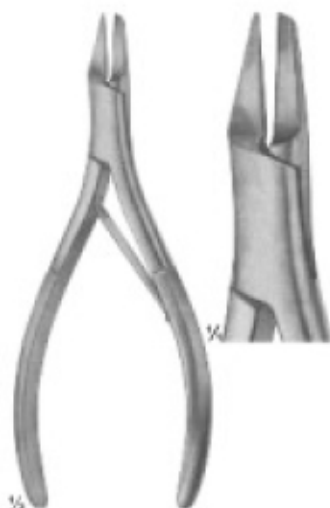
27-204
Nail extracting
forceps
145 mm



27-205
Finger nail drill
with 3 drill points

27-206 **27-207** **27-208**

Drill points only



27-209
Nail splitting
forceps
135 mm



27-210
Ring cutter
17 cm



WALTON
27-210A
16 cm
27-210B
Spare blade for ring cutters



27-211
Finger ring saw
150 mm