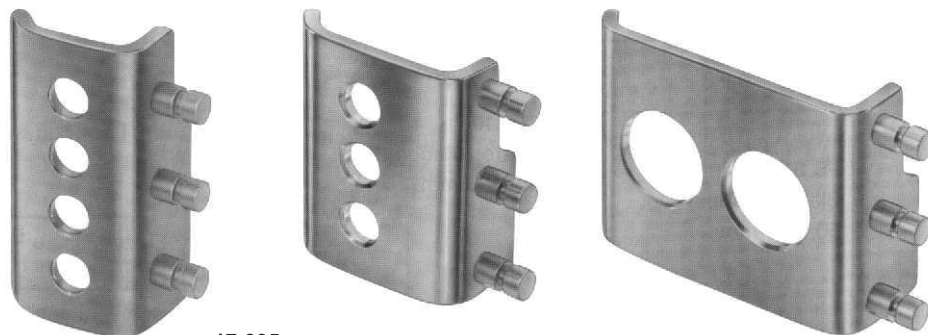
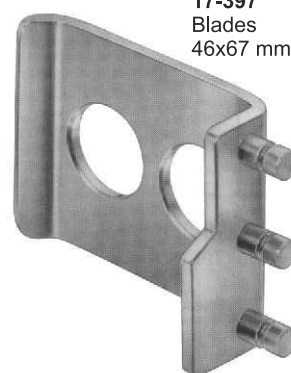


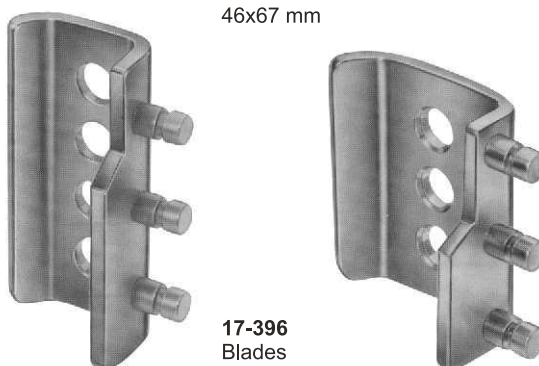
Rib Spreaders



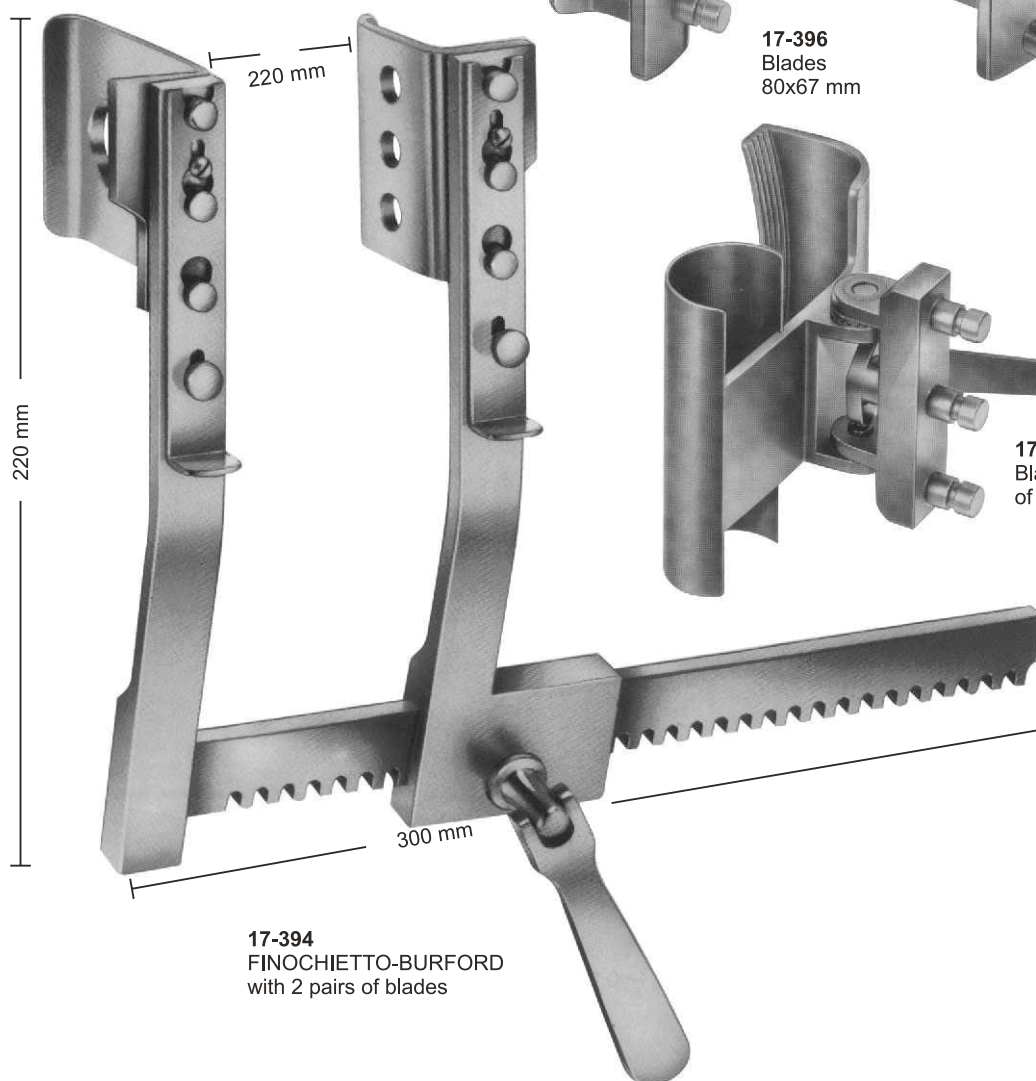
17-395
Blades
46x67 mm



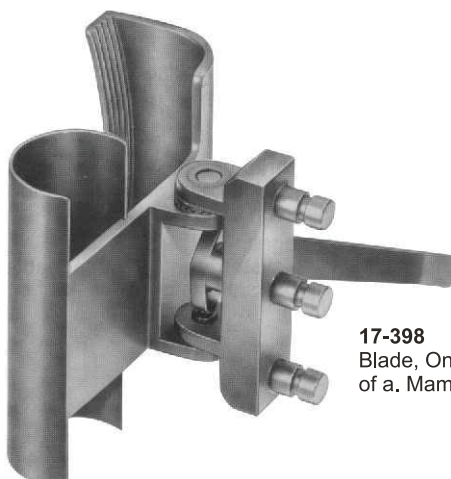
17-397
Blades
46x67 mm



17-396
Blades
80x67 mm

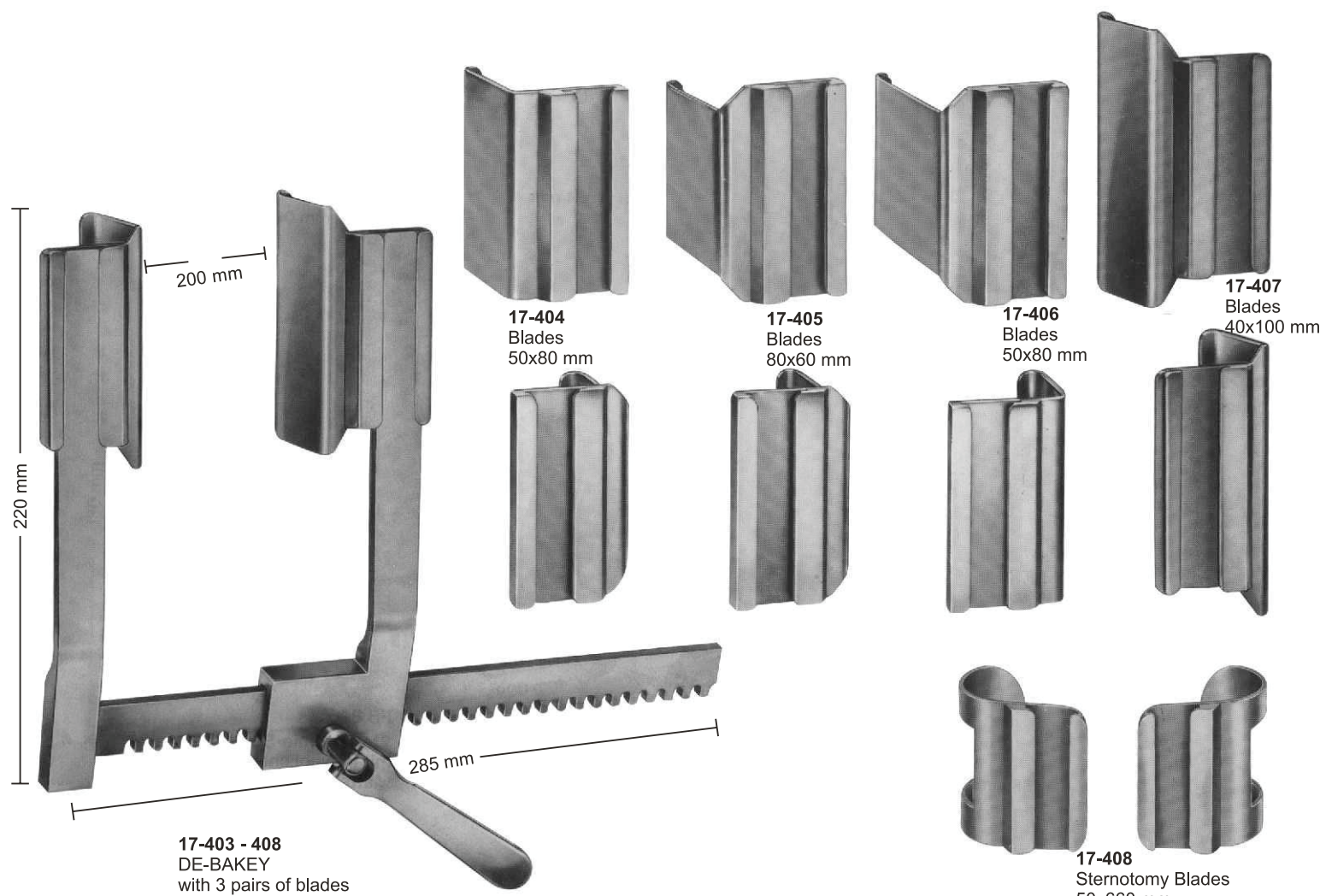
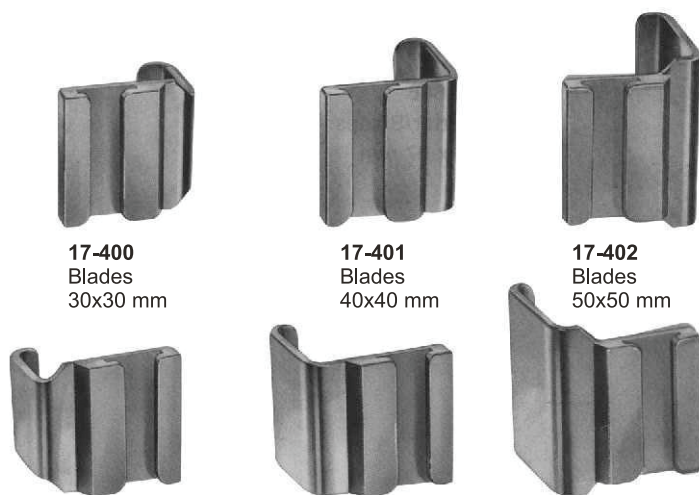
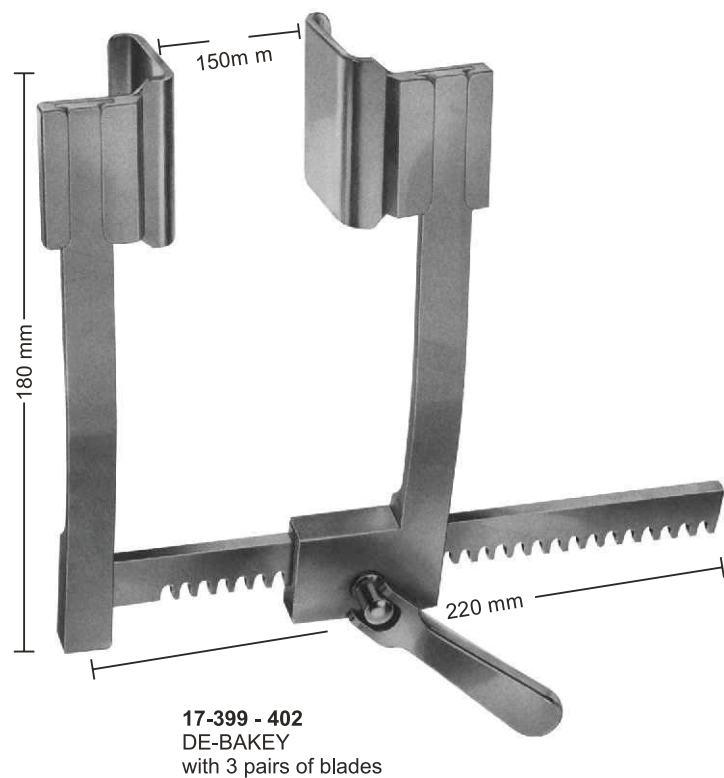


17-394
FINOCHIETTO-BURFORD
with 2 pairs of blades

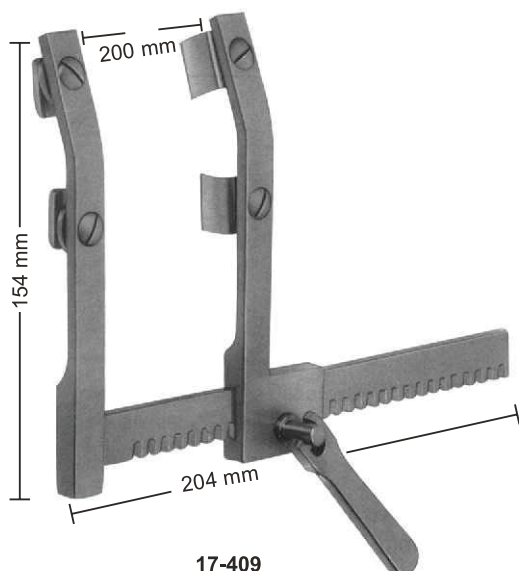


17-398
Blade, Only, for preparation
of a. Mammaria, 25.5x80mm

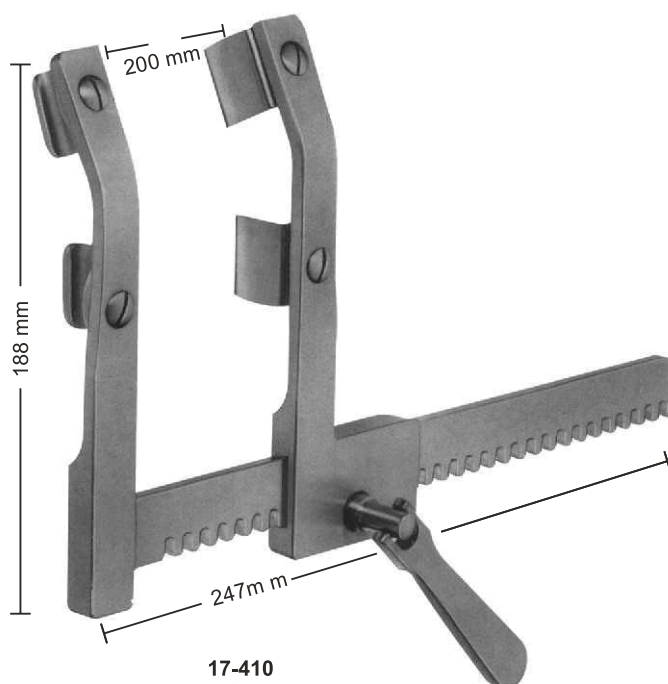
Rib Spreaders



Sternotomy Spreaders

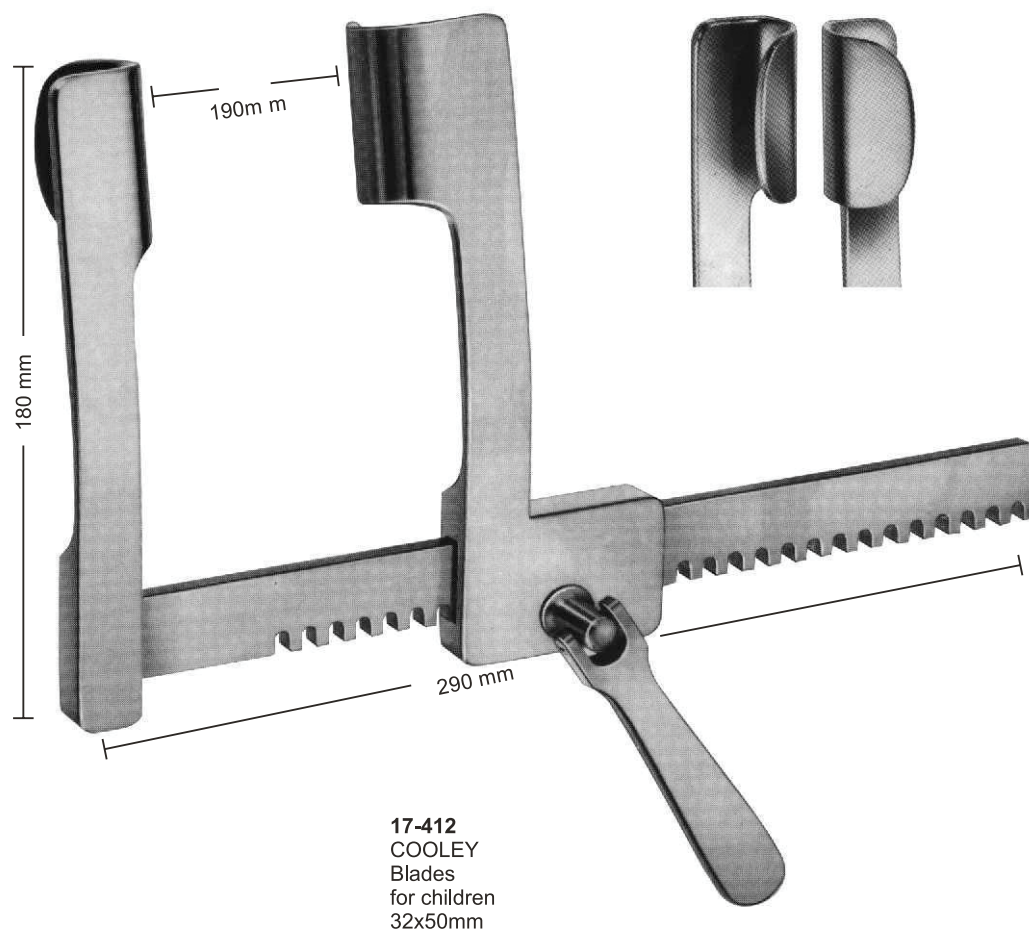
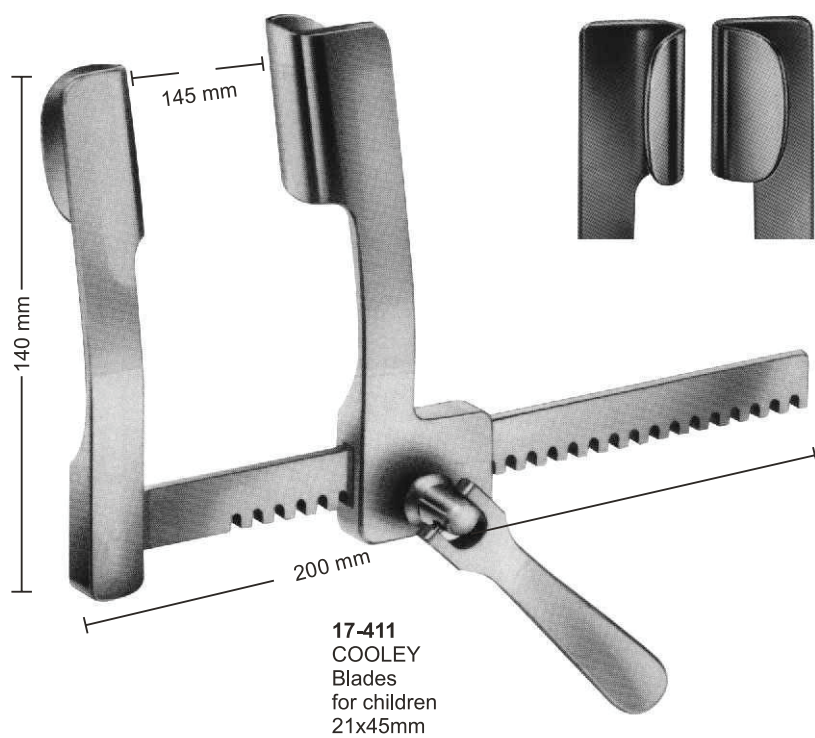


17-409
MORSE
Sternotomy spreader
for children, with moveable
double, each blade
12x20 mm



17-410
MORSE
Sternotomy spreader
for adults, with moveable
double, each blade
19x19 mm

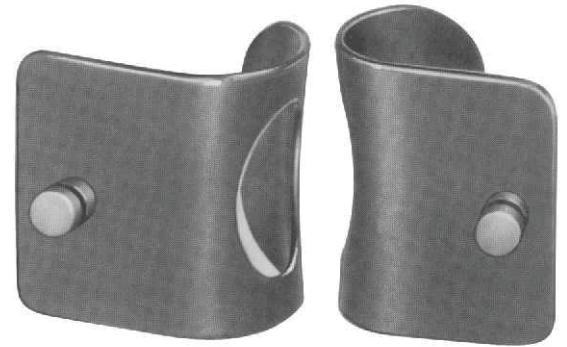
Sternotomy- Spreaders



Thoracic Retractors



17-414
Blades
75x75 mm



17-415
Blades
42x65 mm

Blades with Ball Snap System
Delivery: in Pairs

17-413 - 415
Thoraxsperrer (Mercedes-Sperrer)
complete consisting of:
17-413 Retractor only
17-414 1 Pair of blades 42x65 mm
17-415 1 Pair of blades 75x75 mm

Rib Spreaders-and Contractors



17-416
SELLORS
Rib spreader-and contractor
with swivel blades
200 mm



17-417
BAILEY
150 mm

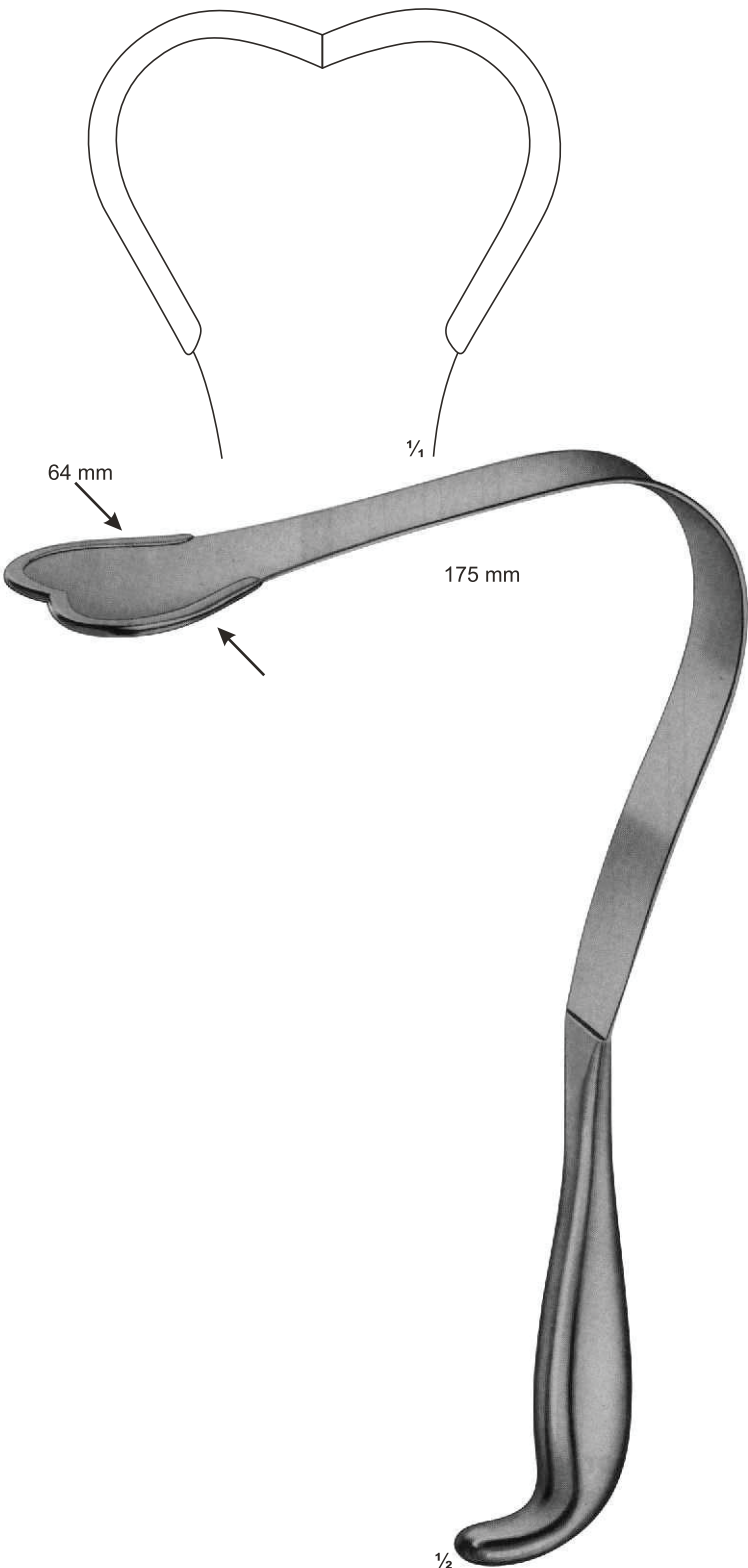


17-418
for children

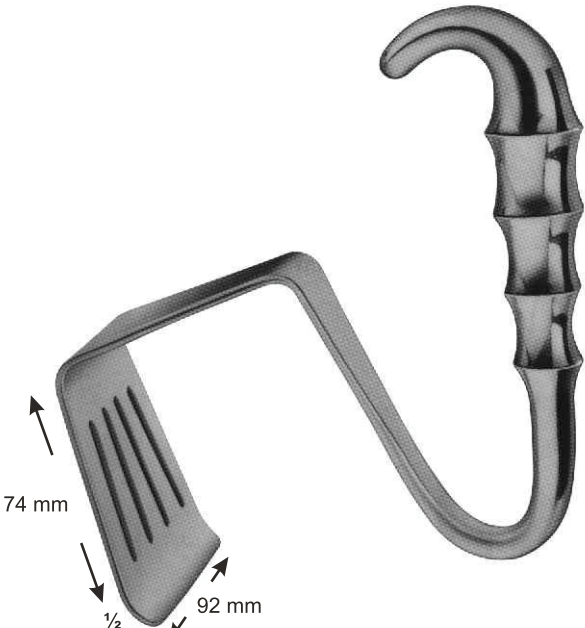
17-419
for children

17-418 - 419
BAILEY
200 mm

Rib Spreaders-and Contractors



17-420
HARRINGTON-PEMBERTON
federnd/flexible
295 mm



17-421
DAVIDSON
Scalpel haken

Rib Spreaders-and Contractors



17-422
ALLISON
255 mm



17-423
ALLISON
320 mm



ϕ 6-10 mm
1/2

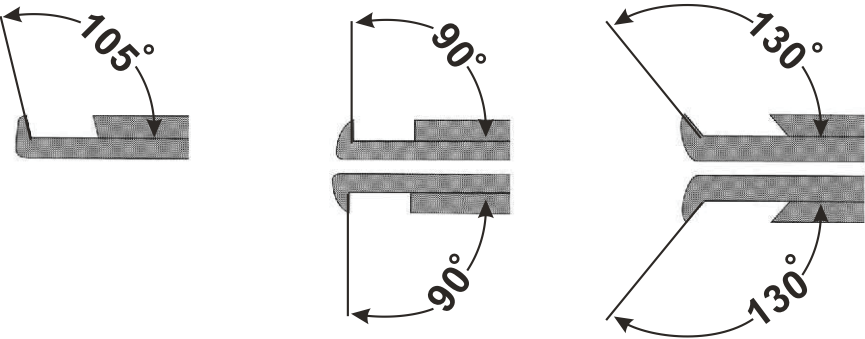
17-424
DE BAKHEY
With central bore,
3,0mm diam.
with lateral slots
275 mm



ϕ 7-9 mm
1/2

17-425
YANKAUER
With central bore,
2,0mm diam.
285 mm

Punches



90° upwards cutting

65 mm

18-101

18-102

18-101 - 102
CITELLI
2 mm, 3,5 mm

1/2

90° upwards cutting

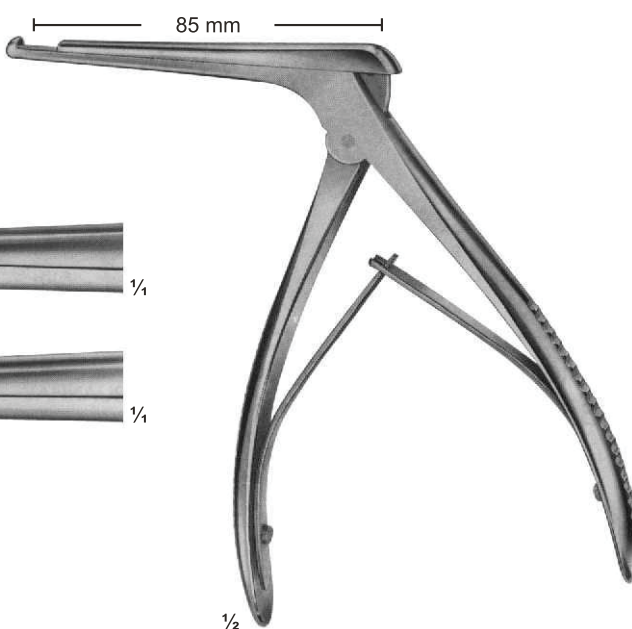
95 mm

18-103

18-103
CITELLI- BEYER
1,8 mm

Punches

90° upwards cutting



18-104
4 mm

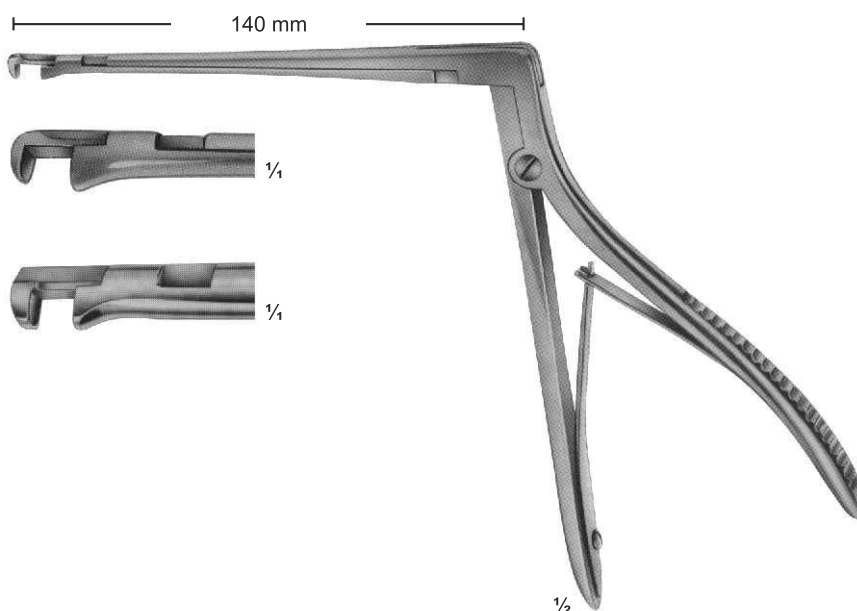


18-105
5 mm



18-104 - 105
KERRISON

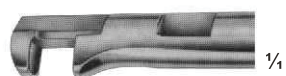
90° upwards cutting



18-106
3,3 mm



18-107
4,0 mm

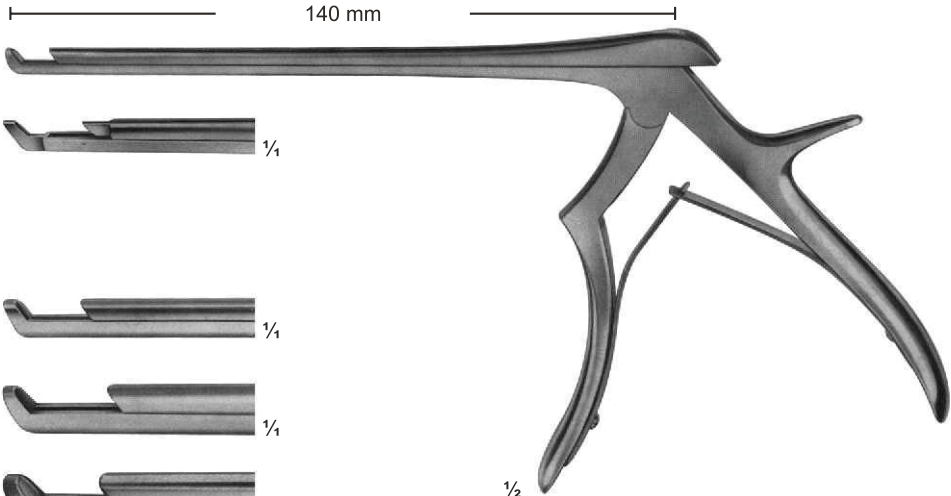


18-106 - 107
HAJEK-KOFLER

Punches

130° upwards cutting

18-108
1 mm



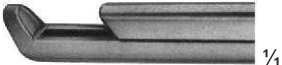
18-109
2 mm



18-110
3 mm



18-111
4 mm



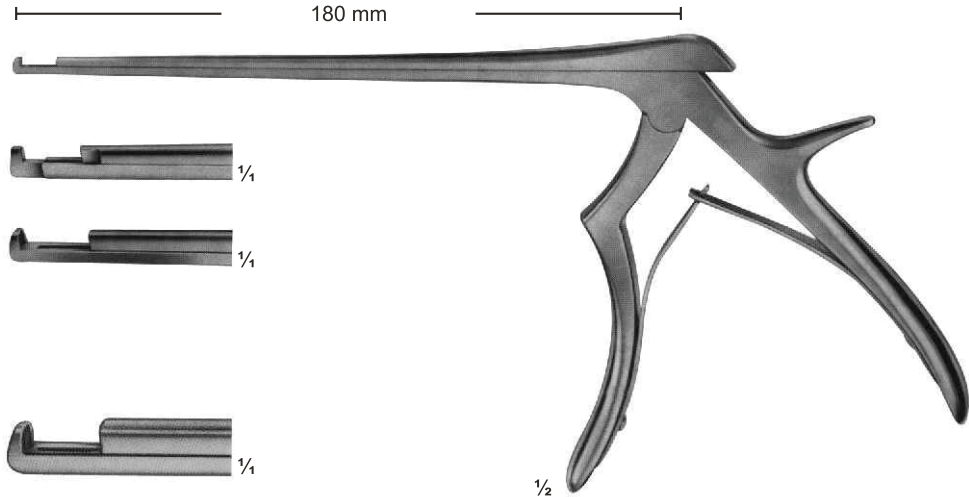
18-112
5 mm



18-108 - 112
KERRISON-JACOBY

90° upwards cutting

18-113
1 mm



18-114
2 mm



FERRIS-SMITH-KERRISON

18-115
3 mm



18-116
4 mm



18-117
5 mm

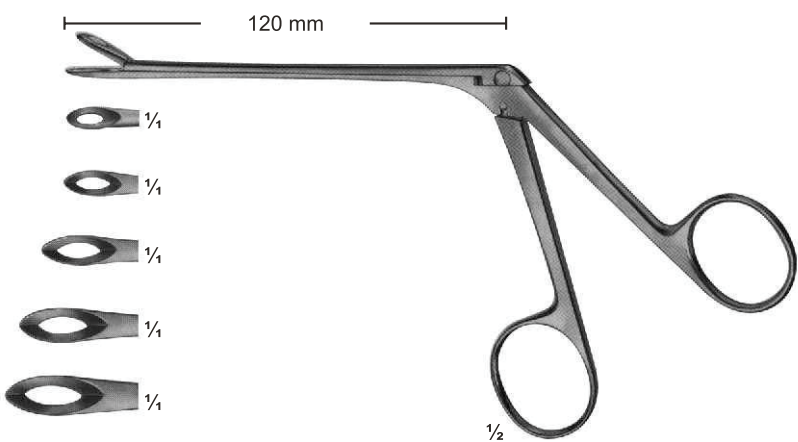


18-113 - 117
KERRISON-JACOBY

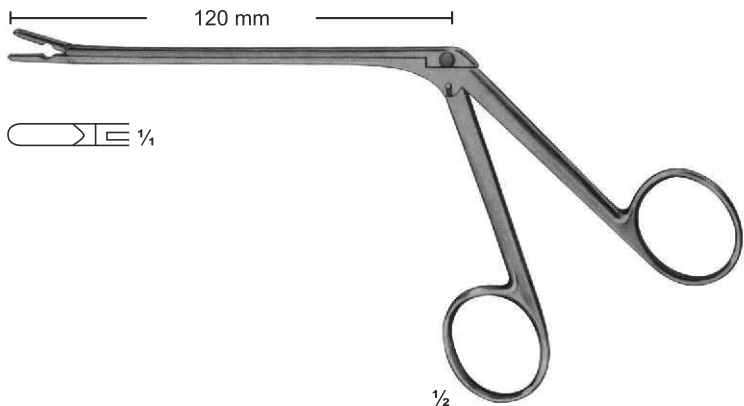
Rongeurs

Angled positions for rongeurs

- 18-118
3,0 mm
- 18-119
3,6 mm
- 18-120
4,2 mm
- 18-121
4,8 mm
- 18-122
5,8 mm

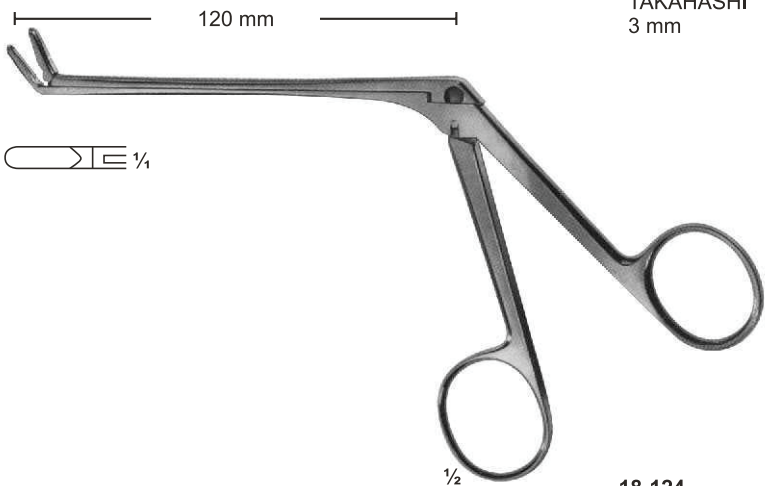


18-118 - 122
WEIL-BLAKESLEY



18-123
TAKAHASHI
3 mm

130°



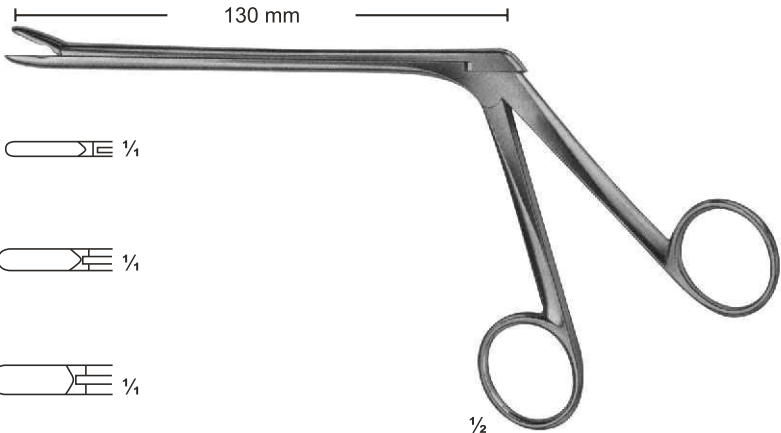
18-124
TAKAHASHI
3 mm

Rongeurs

18-125
2 X 10 mm

18-126
3 X 10 mm

18-127
4 X 10 mm



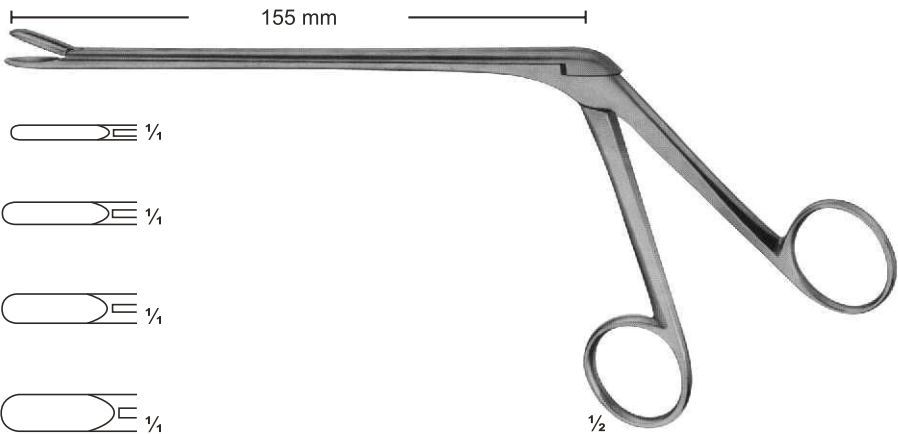
18-125 - 127
LOVE-GRUENWALD

18-128
2 mm

18-129
3 mm

18-130
4 mm

18-131
5 mm

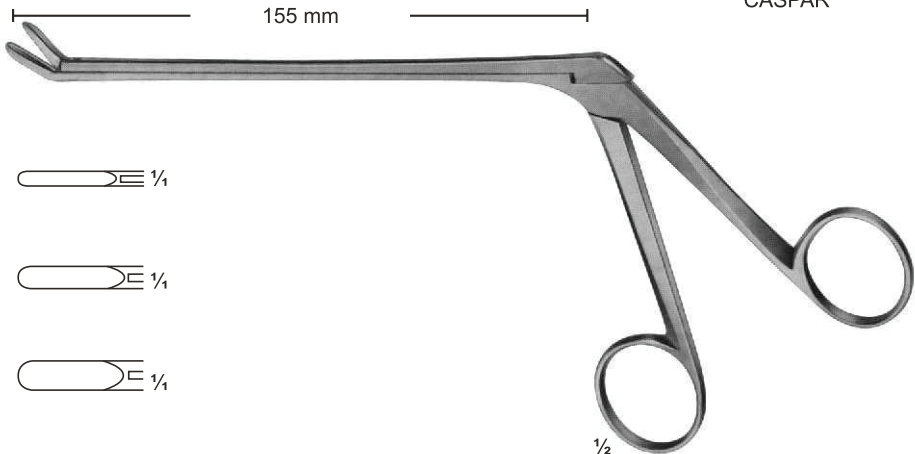


18-128 - 131
CASPAR

18-132
2 mm

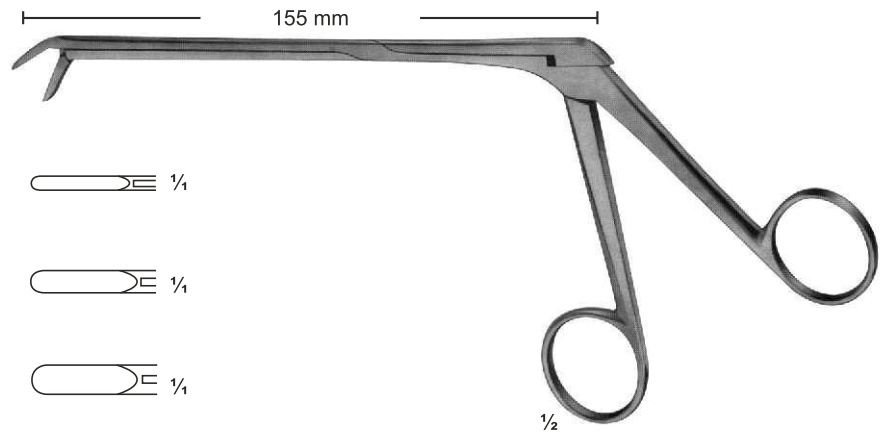
18-133
3 mm

18-134
4 mm

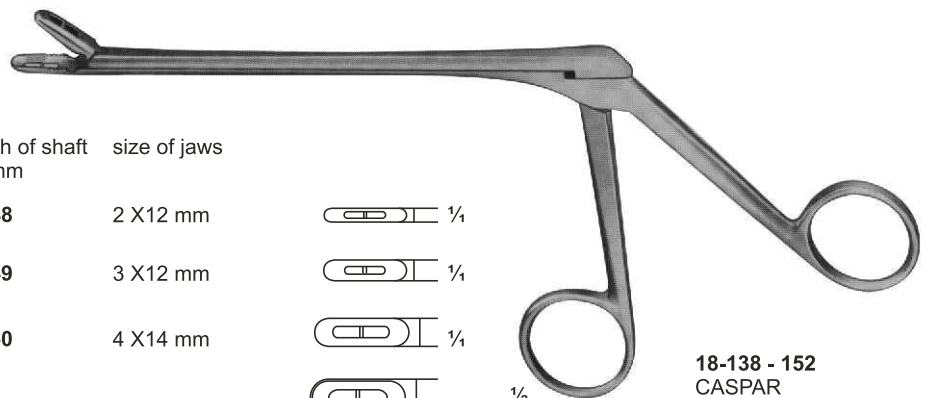


18-132 - 134
CASPAR

Rongeurs

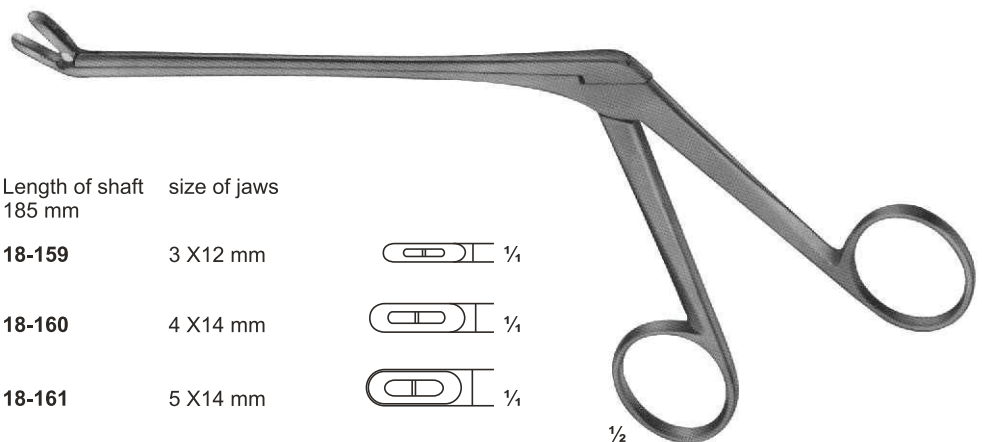


18-135 - 137
CASPAR



18-138 - 152
CASPAR

Length of shaft 140 mm	Length of shaft 160 mm	Length of shaft 185 mm	size of jaws	
18-138	18-143	18-148	2 X12 mm	 1/4
18-139	18-144	18-149	3 X12 mm	 1/4
18-140	18-145	18-150	4 X14 mm	 1/4
18-141	18-146	18-151	5 X14 mm	 1/4
18-142	18-147	18-152	6 X16 mm	 1/4

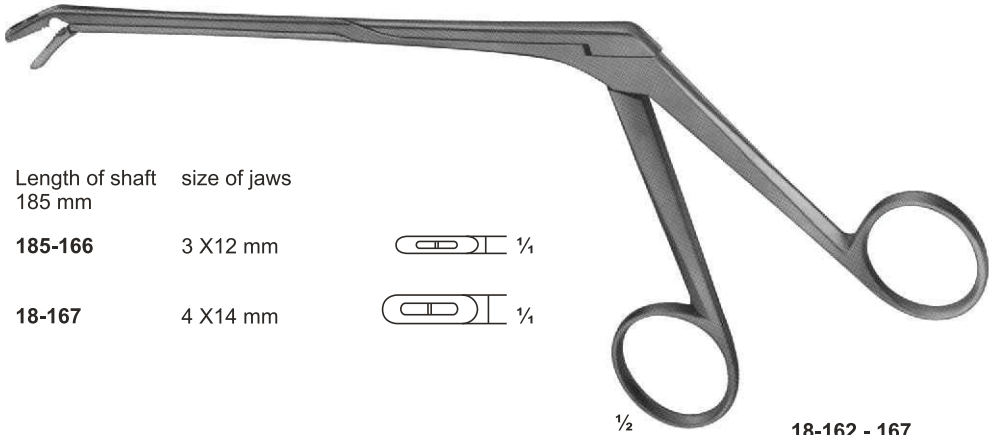


18-153 - 161
CASPAR

Length of shaft 140 mm	Length of shaft 160 mm	Length of shaft 185 mm	size of jaws	
18-153	18-156	18-159	3 X12 mm	 1/4
18-154	18-157	18-160	4 X14 mm	 1/4
18-155	18-158	18-161	5 X14 mm	 1/4

Rongeurs

Length of shaft 140 mm	Length of shaft 160 mm	Length of shaft 185 mm	size of jaws
18-162	18-164	185-166	3 X12 mm
18-163	18-165	18-167	4 X14 mm

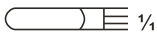


18-162 - 167
GUSHING

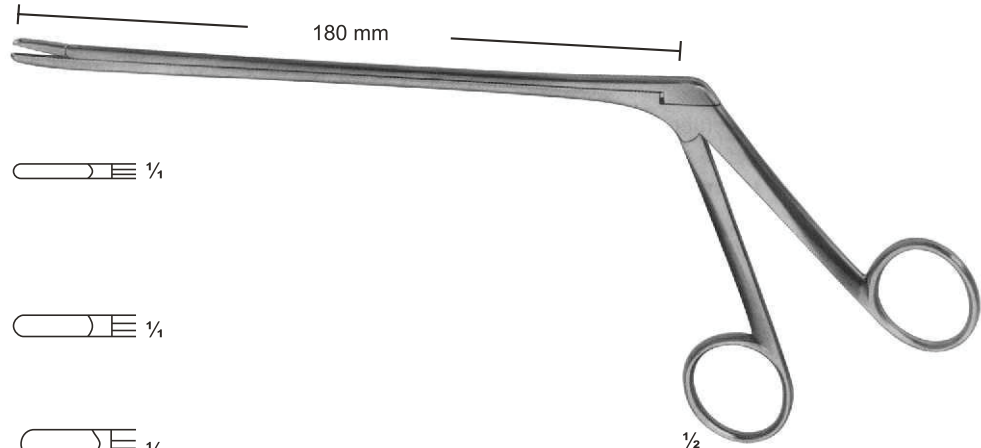
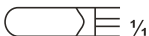
18-168
2 X 10 mm
GUSHING



18-169
3 X 10 mm
LOVE-GRUENWALD



18-170
4 X 10 mm
SPURLING

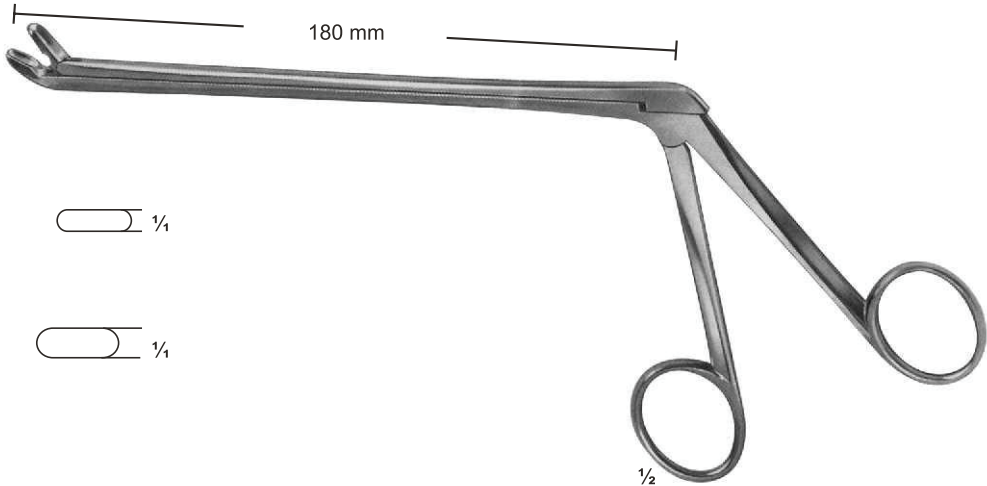


18-168 - 170
LOVE-GRUENWALD

18-171
3 X 10 mm
LOVE-GRUENWALD



18-172
4 X 10 mm
SPURLING



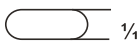
18-171 - 172
LOVE-GRUENWALD

Rongeurs

18-173
3 X 10 mm
LOVE-GRUENWALD



18-174
4 X 10 mm
SPURLING



18-173 - 174
LOVE-GRUENWALD

18-175
7 mm



18-175
OLDBERG

18-176
YASARGIL
2,2 mm

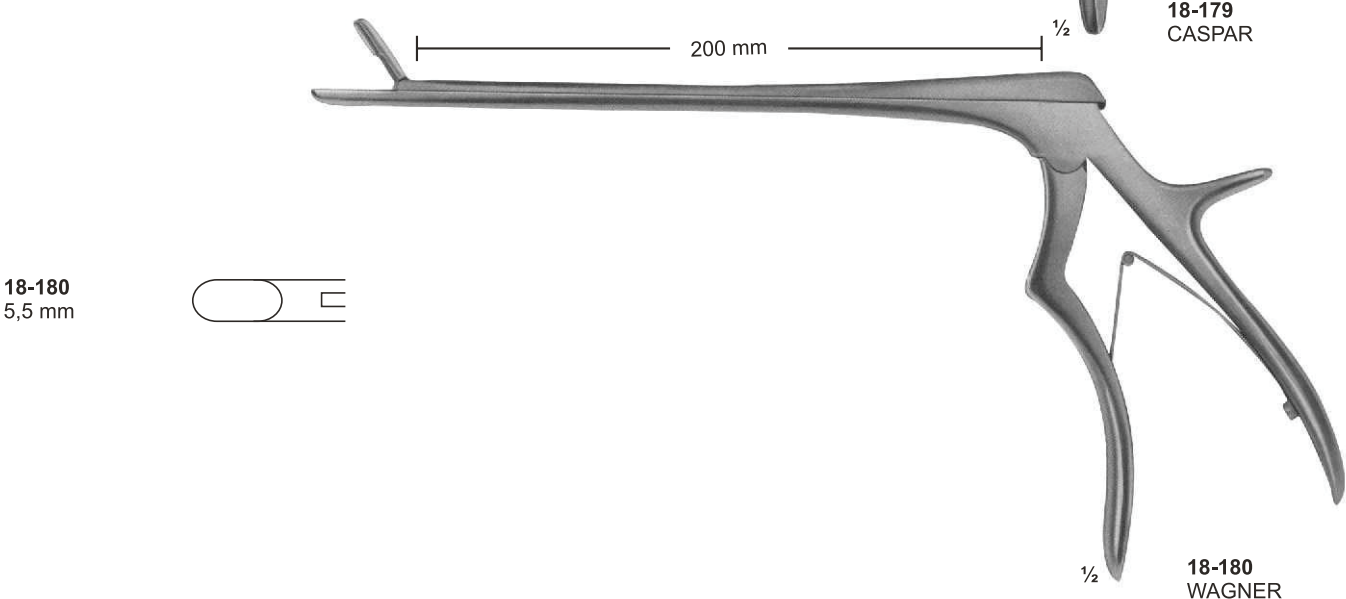
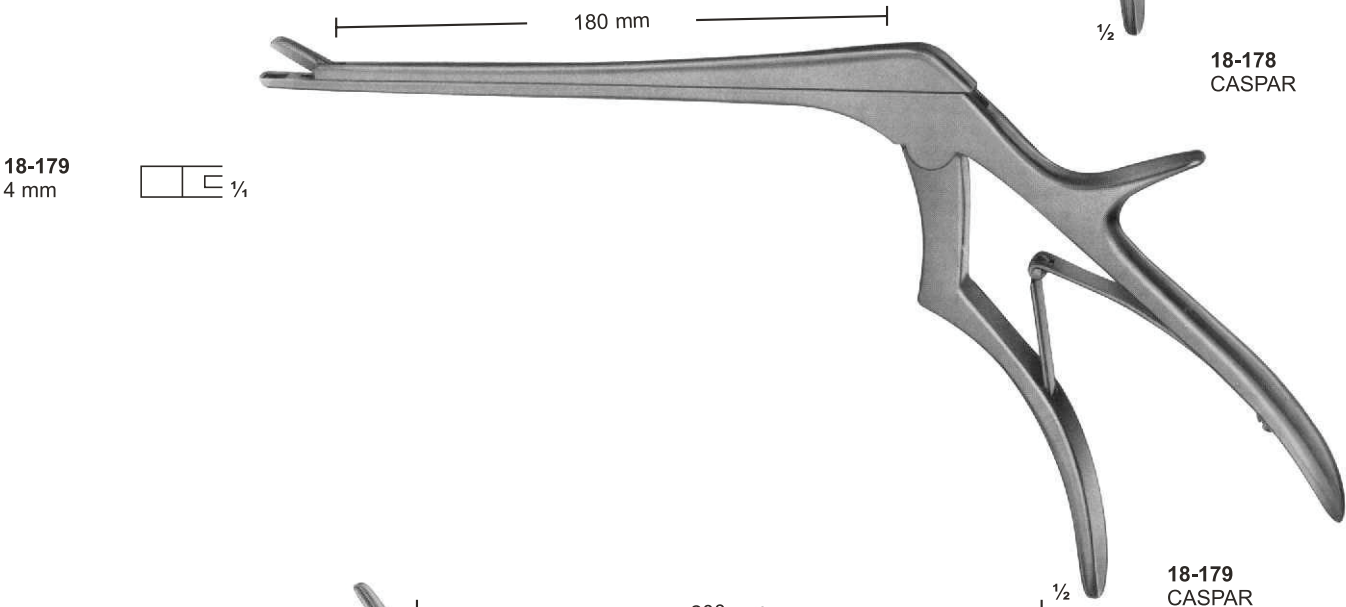
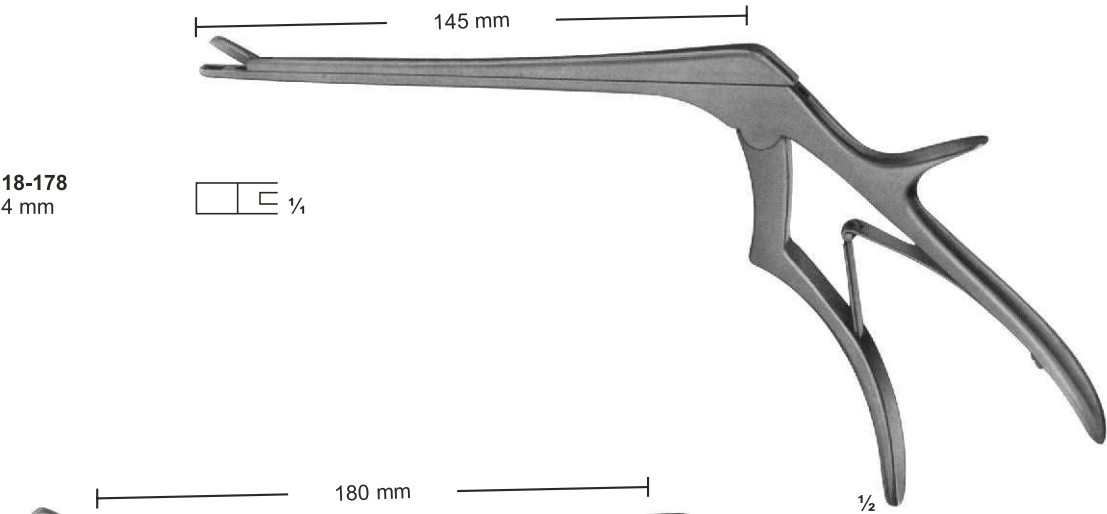


18-177
YASARGIL
3,5 mm

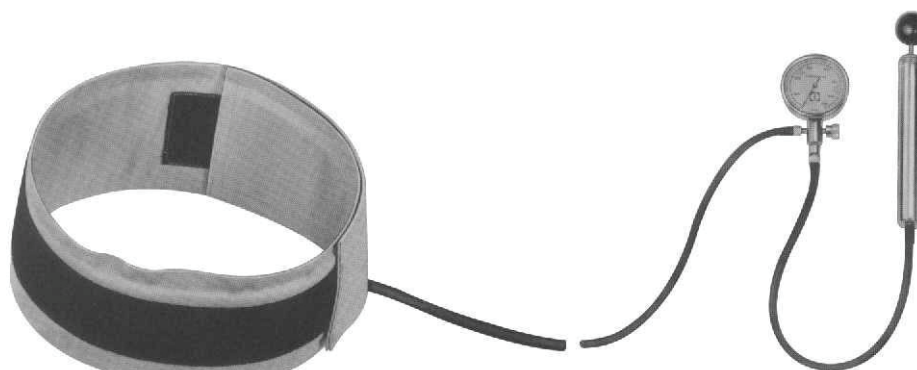


18-176 - 177

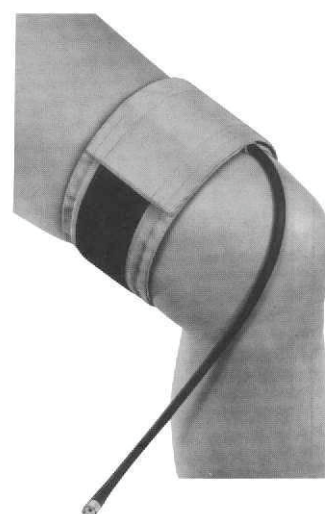
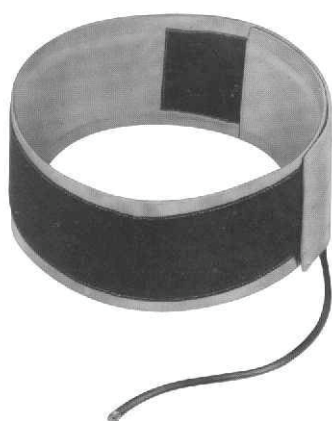
Rongeurs



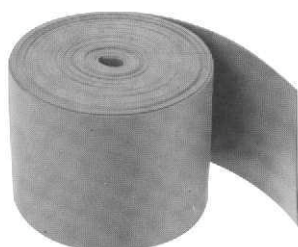
Amputation



19-101
Comprimeter. Compression
apparatus for producing
exsanguination in the extremities.
Manometer registers up to 600 mm Hg.
Complete, consisting of :
19-101 2 Pump with manometer
19-102 3 Cuff for the leg
19-103 14 Cuff for the upper arm



19-104 3 Cuff for the leg
19-105 4 Cuff for the lower arm
19-106 5 Cuff for children
19-107 14 Cuff for the upper arm



19-108
ESMARCH
Staubinde
Compression bandage
5 m lang/long
6 cm breit/wide



19-109
ESMARCH
Stauschlauch
Compression tube
1 m lang/long

Amputation and Resection Knives



19-110
Length of blades
Phalangeal knife
105 mm



19-111
Length of blades
Interosseous knife
110 mm



19-112
Length of blades
Periosteum knife
with raspatory
65 mm



19-113 - 114
Length of blades
Resection knives
55 mm

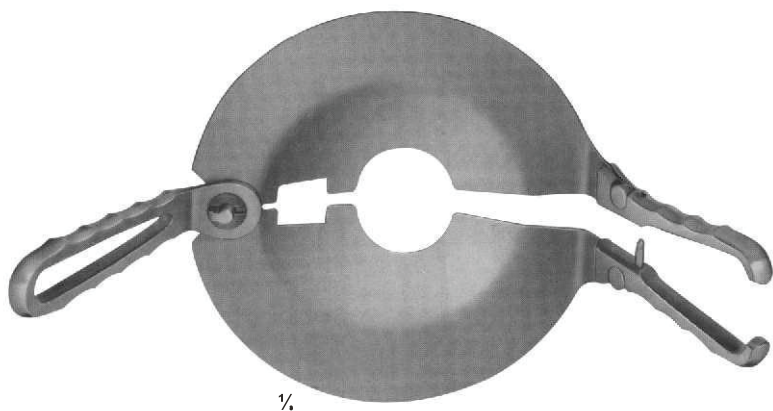


19-113

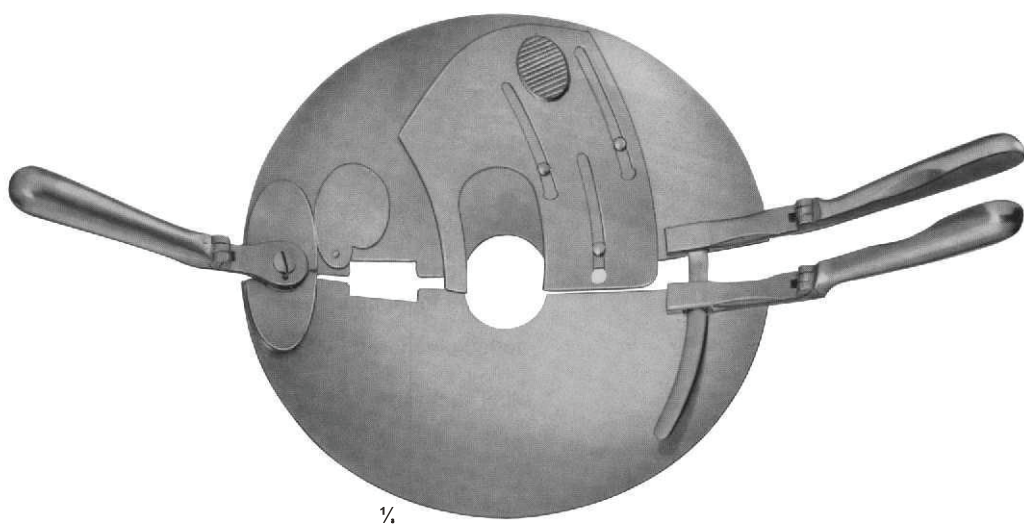


19-114

Amputation Retractors



19-115
PERCY
removeable handles

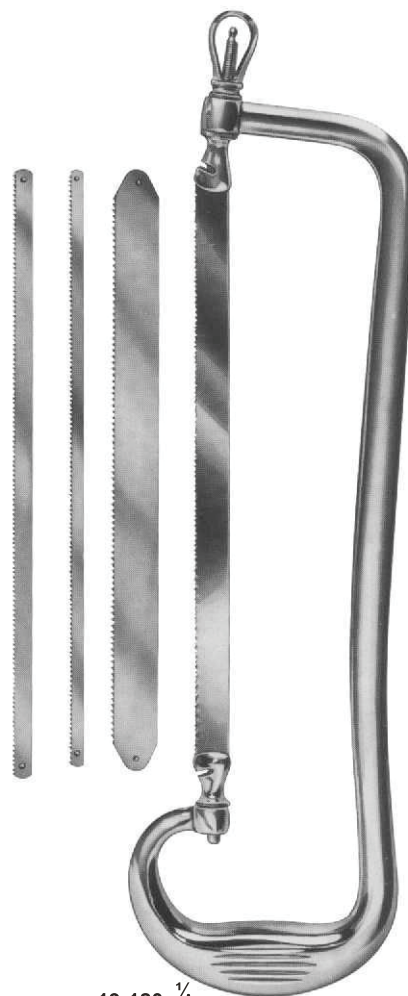


19-116
PERCY
reversible handles

Amputation Saws

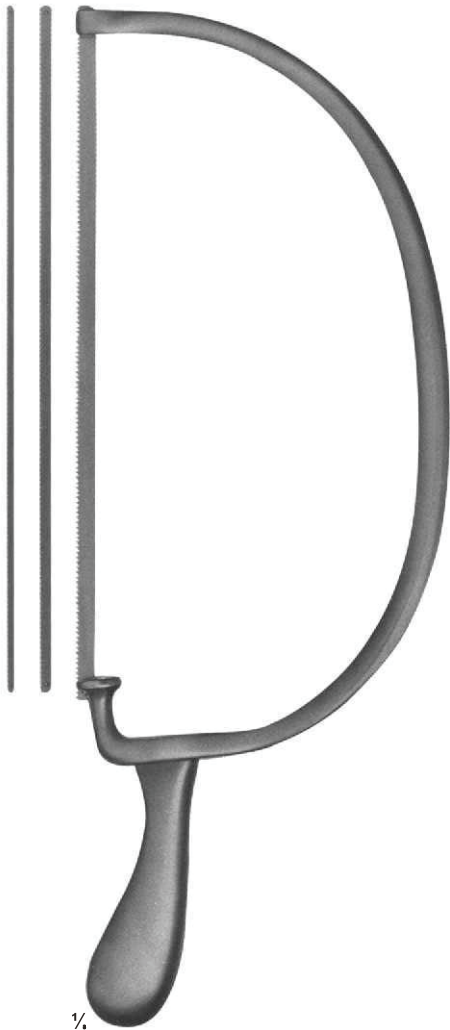


19-117
CHARRIÈRE
Length of blade
215 mm
complete with one saw
blade each
350 mm
Spare saw blades, carbon steel
19-118 12 mm
19-119 20 mm



19-120 1/2
RUST
Length of blade
235 mm
complete with one saw
blade each
390 mm
19-121 Bow only
Spare saw blades, carbon steel
19-122 6 mm
19-123 8 mm
19-124 12 mm
19-125 20 mm

Amputation Saws



1/4

19-126

BIER

Length of blade

270 mm

complete with one saw

blade each

420 mm

Spare saw blades, carbon steel

19-127 4 mm

19-128 6 mm

19-129 8 mm



1/4

19-130

CHARRIERE

Length of blade

180 mm

Spare saw blades,

carbon steel

270 mm

19-131

CHARRIERE

Length of blade

240 mm

Spare saw blades,

carbon steel

340 mm



1/4

19-132

SATTERLEE

Length of blade

200 mm

Spare saw blades,

carbon steel

290 mm



1/4

19-133

LANGENBACK

Length of blade

115 mm

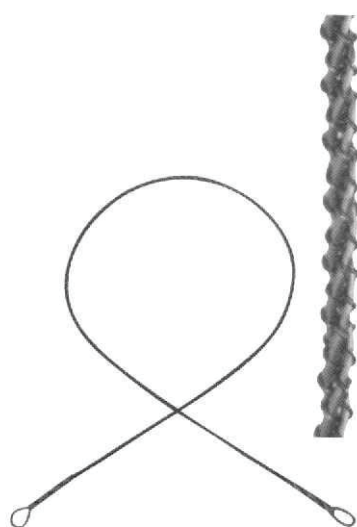
Metacarpal saw

235 mm

Wire Saws and Conductor



OLIVECRONA
19-134 300 mm
19-135 400 mm
19-136 500 mm
19-137 700 mm



GIGLI
19-138 300 mm
19-139 400 mm
19-140 500 mm
fine, 6 wires twisted
19-141
coarses, 4 wires twisted

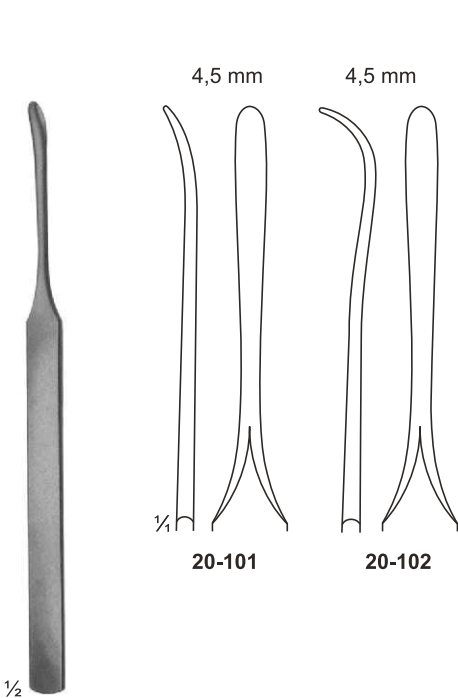


19-142
GIGLI
Handle

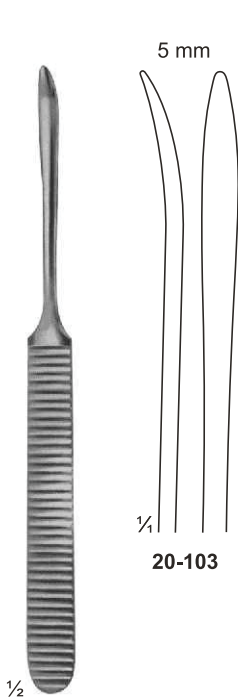


19-143
LEBSCH
Conductor for
wire saws, malleable
250 mm

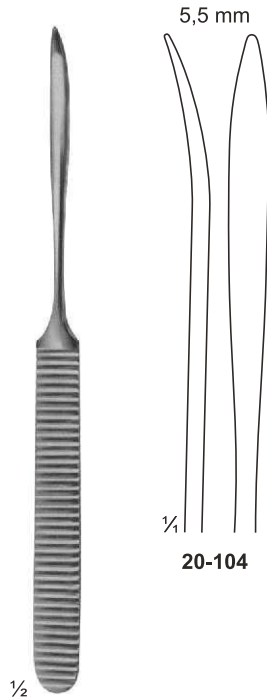
Elevators and Bone Levers



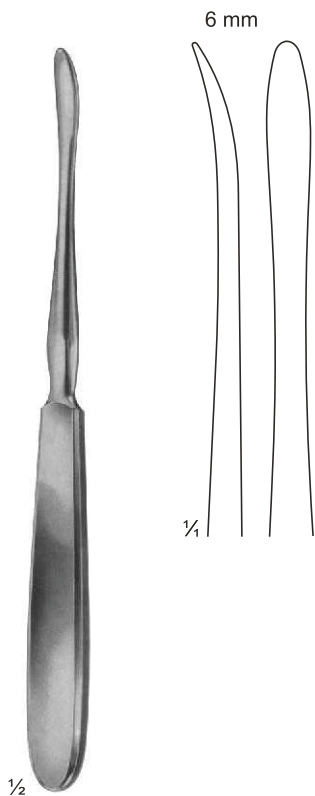
20-101 - 102
KONIG
155 mm



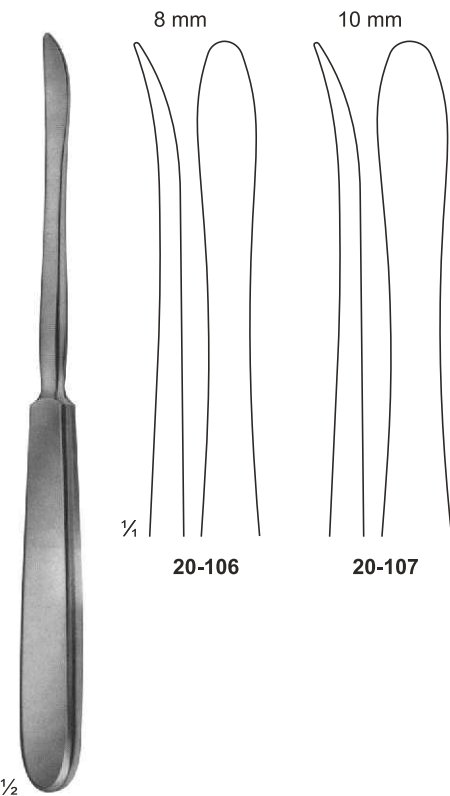
20-103
WILLIGER
165 mm



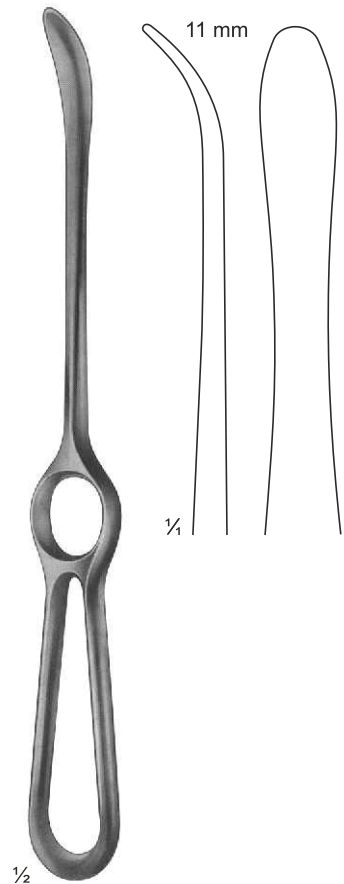
20-104
WILLIGER
170 mm



20-105
QUERVAIN
195 mm

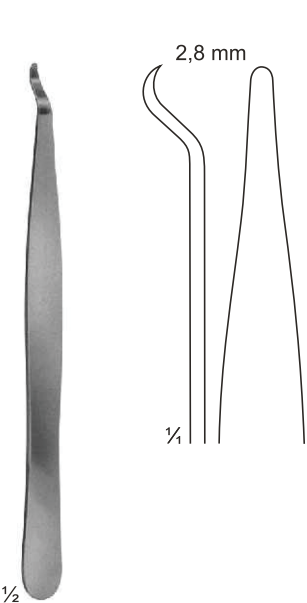


20-106 - 107
LANGENBACK
195 mm

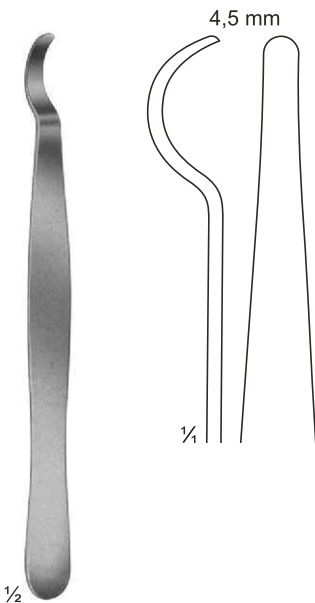


20-108
LANGENBACK
230mm

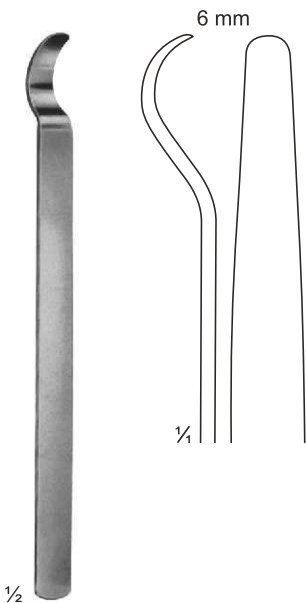
Bone Levers



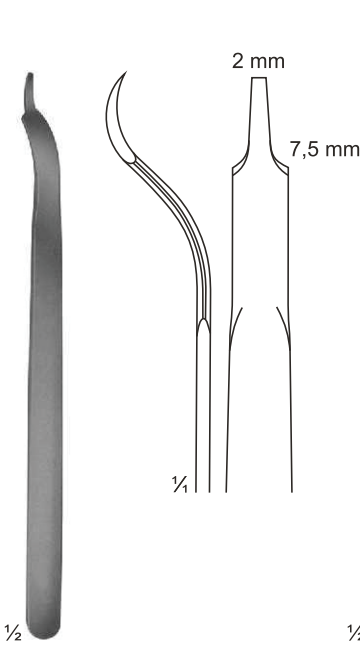
20-109
140mm



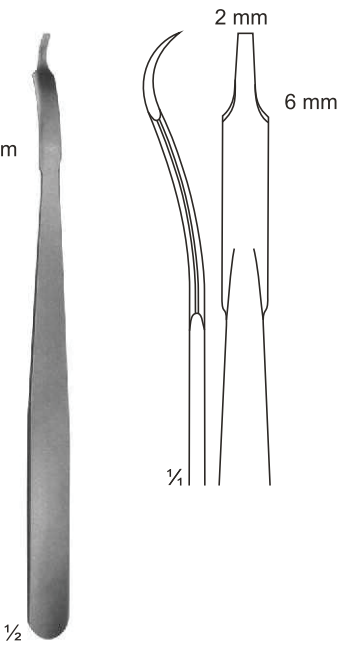
20-110
150mm



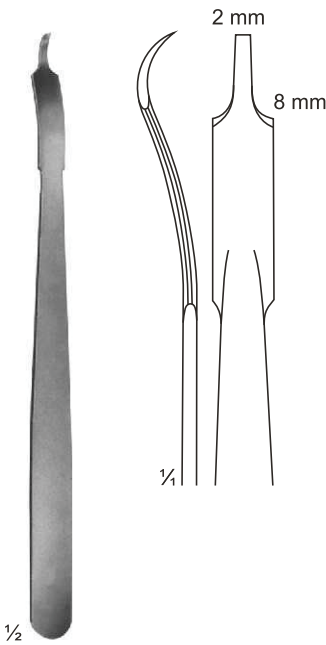
20-111
150mm



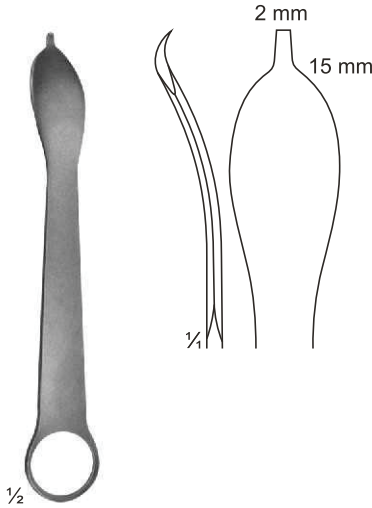
20-112
BUCK-GRAMCKO
150mm



20-113
160mm



20-114
160mm



20-115
125mm

Bone Levers



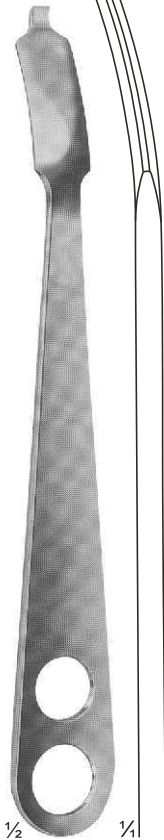
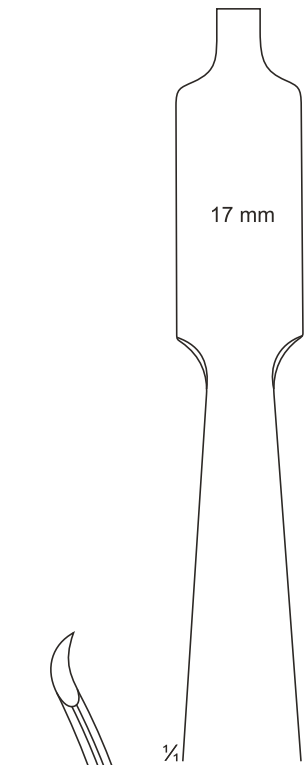
20-116
LANE TRETHOWAN
215mm

20-117
LANE
255mm

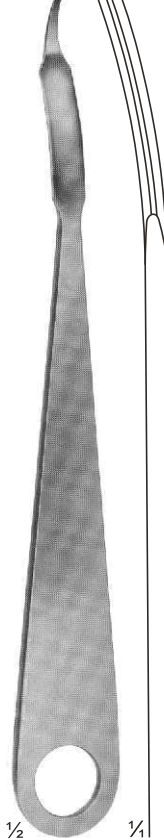
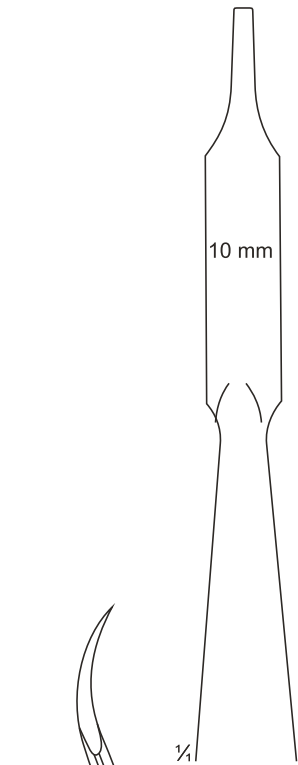
20-118
LANGE-HOHMANN
250mm

20-119 - 120
LANGE-HOHMANN
20-119 265mm
20-120 280mm

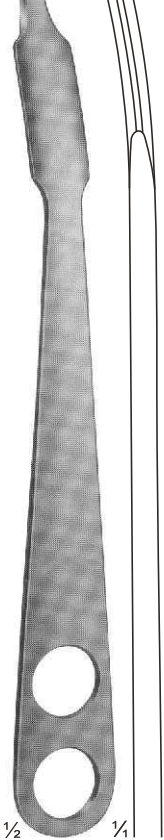
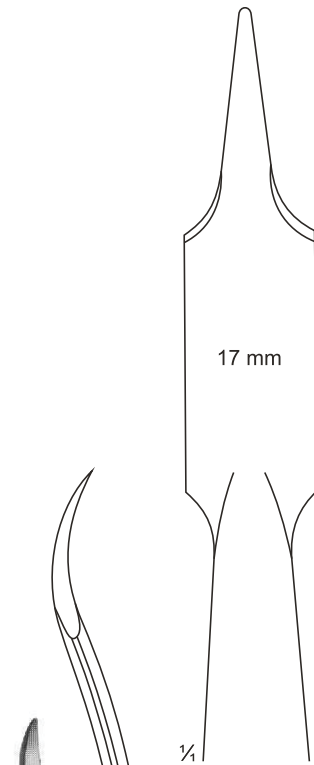
Bone Levers



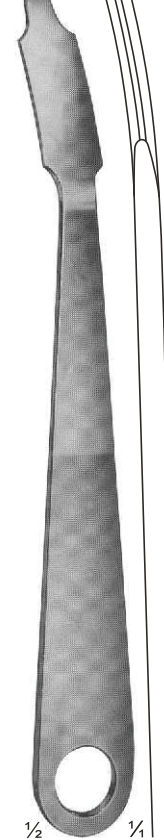
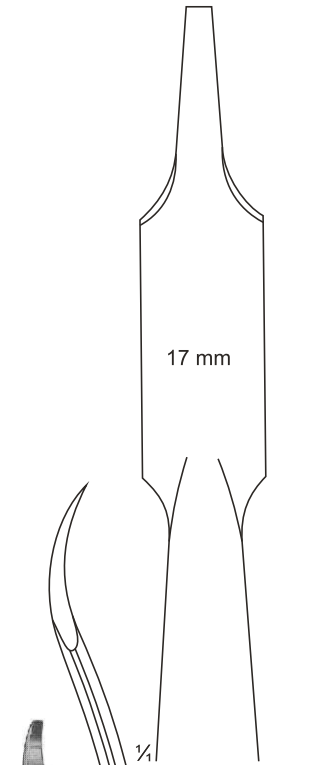
20-121
WAGNER
220 mm



20-122
220 mm

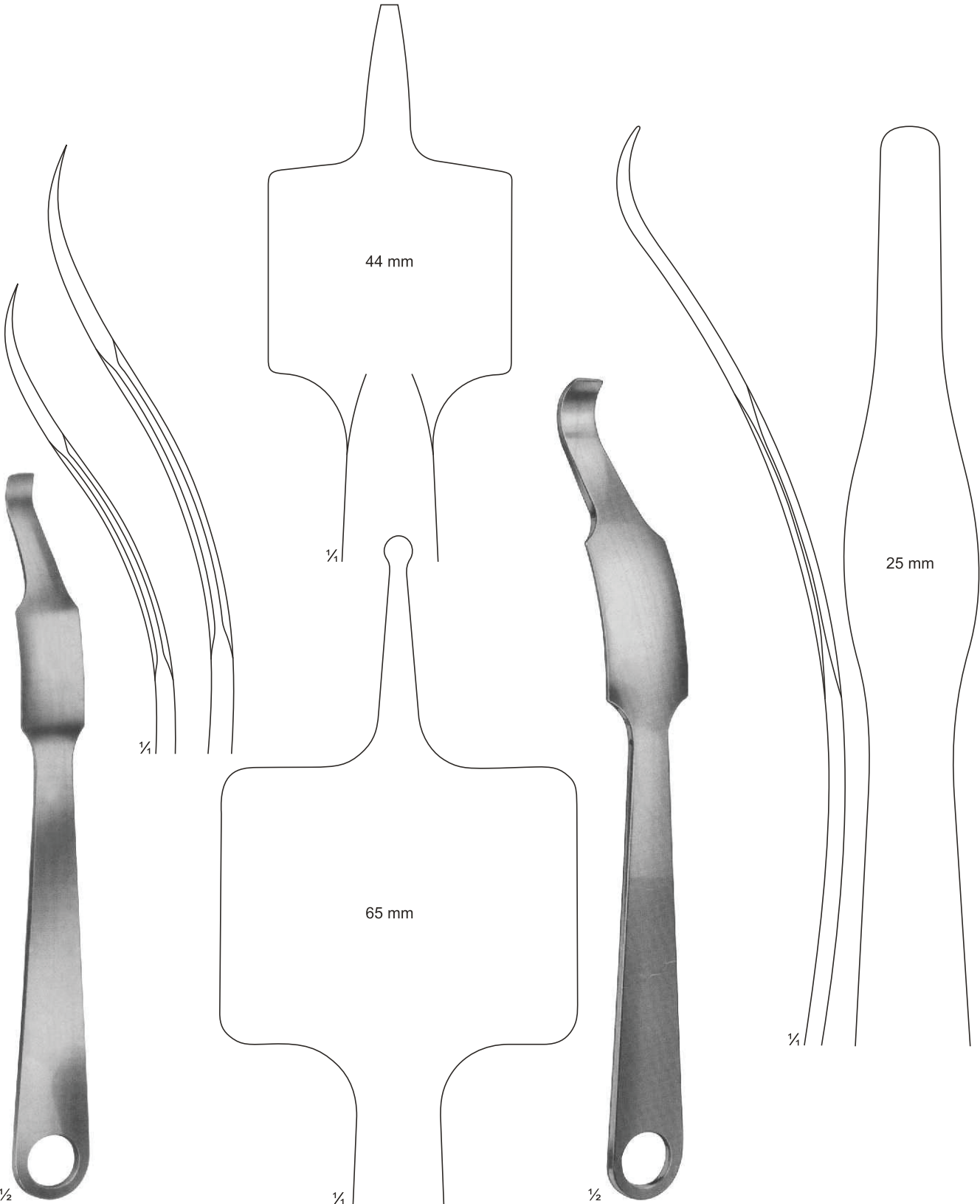


20-123
240 mm



20-124
240 mm

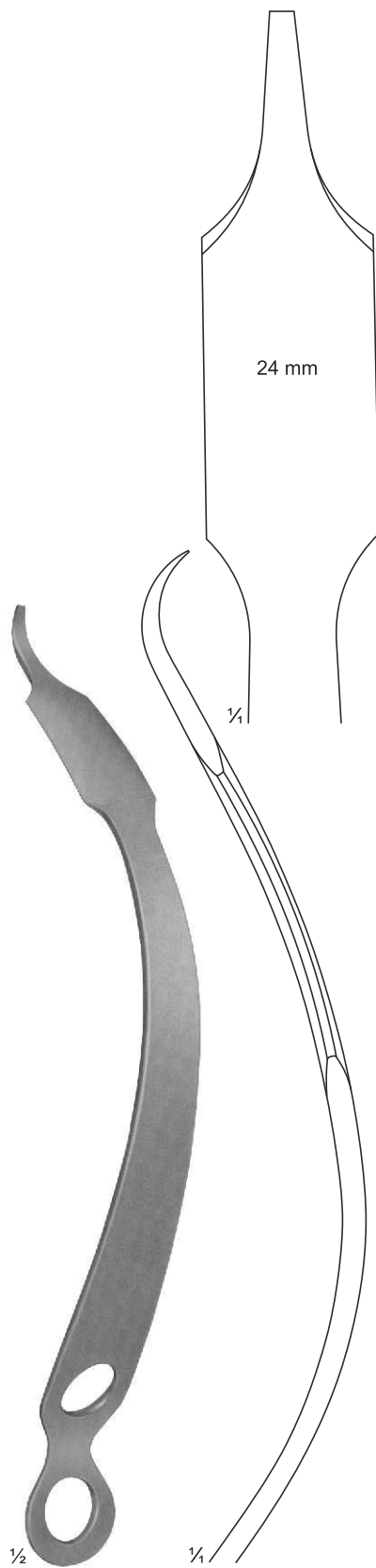
Bone Levers



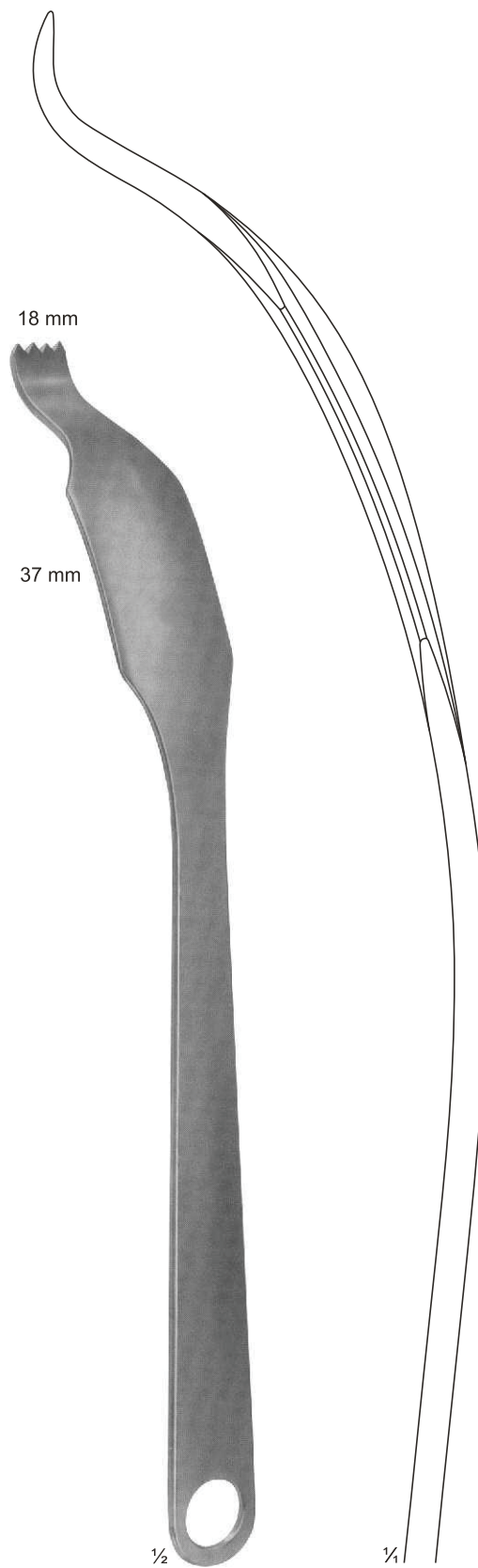
20-125 - 126
VERBRUGGE-MULLER
20-125 240 mm
20-126 255 mm

20-127
260 mm

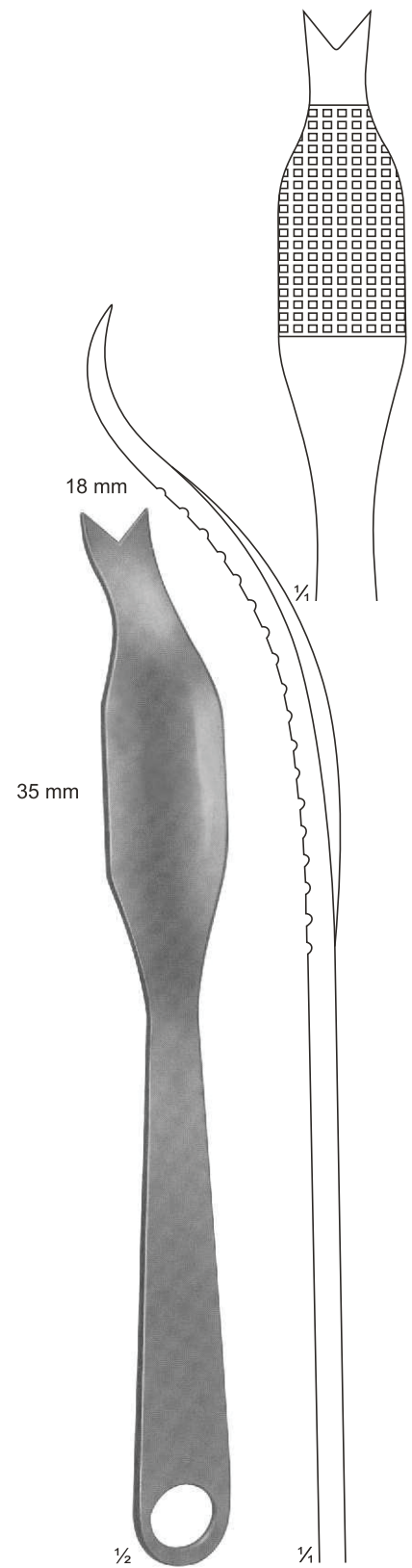
Bone Levers



20-128
HOHMANN-ALDINGER
270 mm

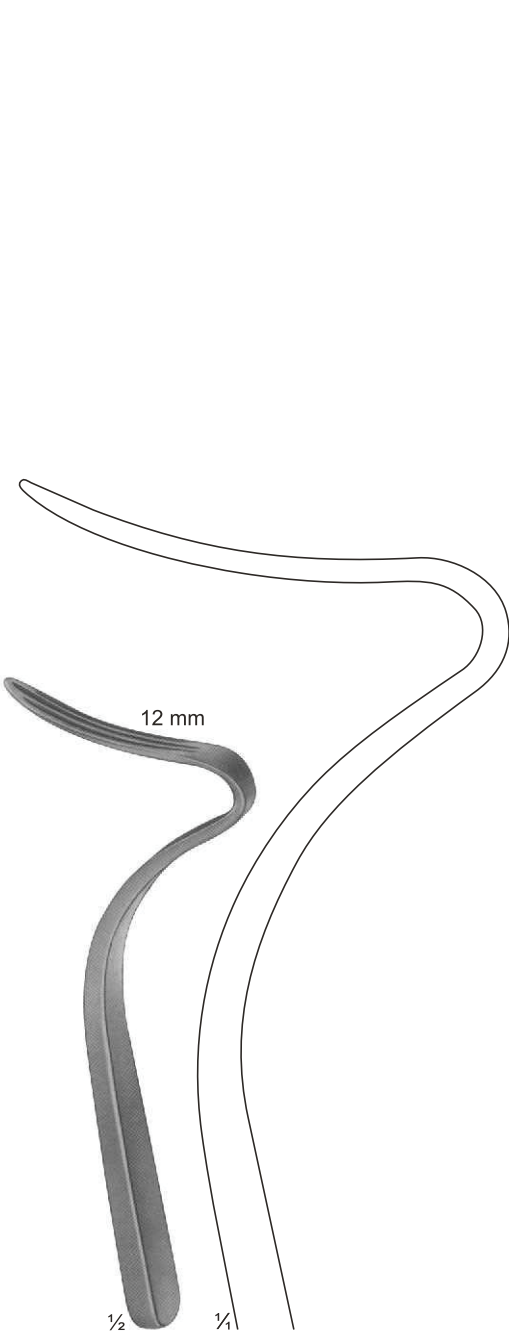


20-129
SCHUMACHER mod. WAGNER
345 mm

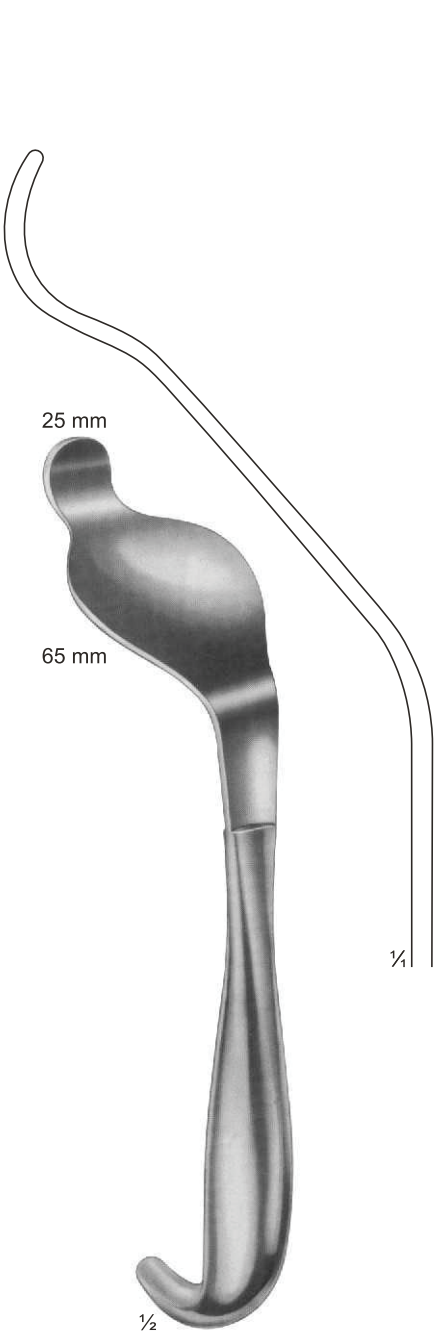


20-130
SCHUMACHER
290 mm

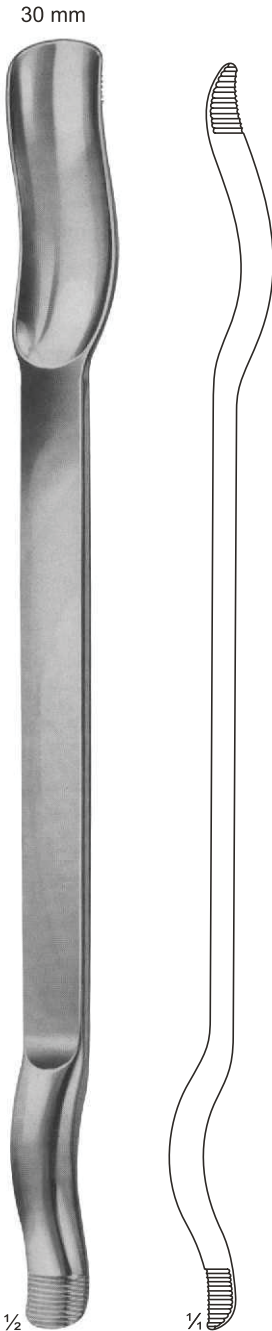
Special Bone Levers



20-131
TAGER
Bone lever for
angle joint operations
175 mm

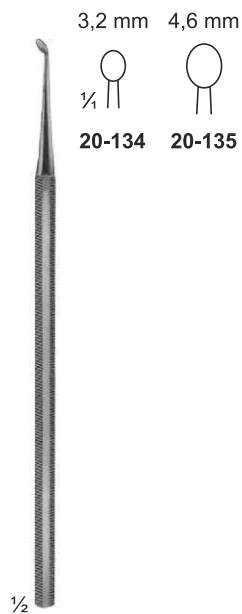


20-132
BENNETT
235 mm

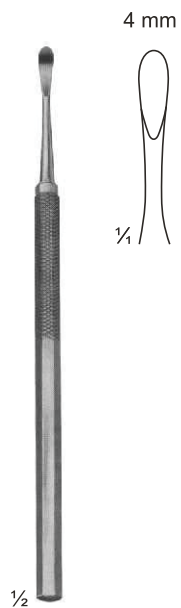


20-133
MURPHY-LANE
Luxation lever
340 mm

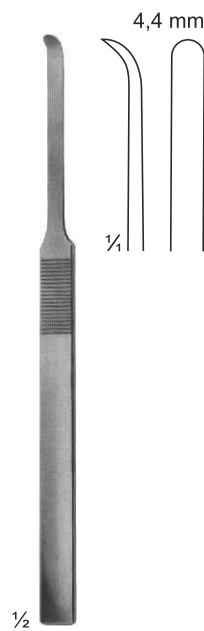
Raspatories



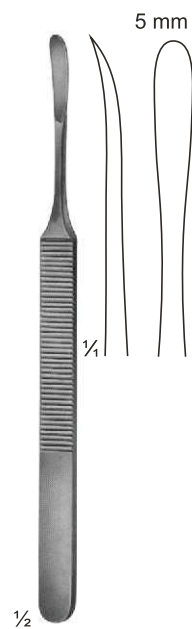
20-134 - 135
PARTSCH
150 mm



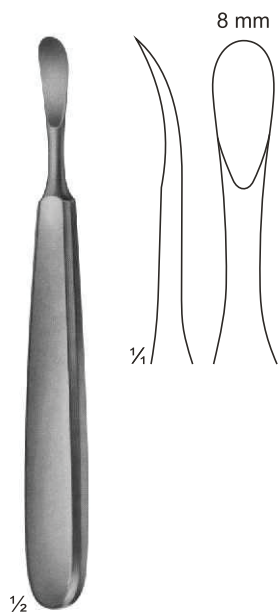
20-136
PARTSCH mod. LANGE
145 mm



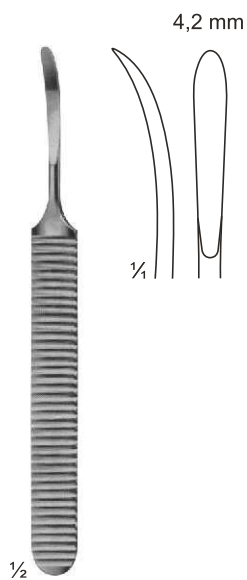
20-137
MC KENTY
155 mm



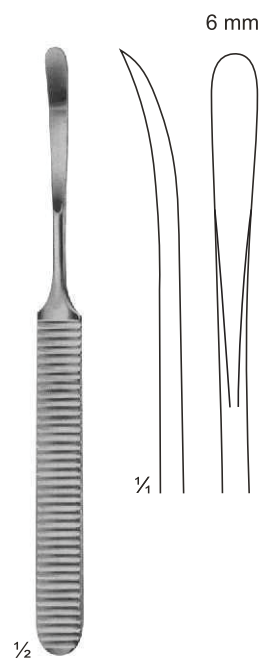
20-138
KONIG
155 mm



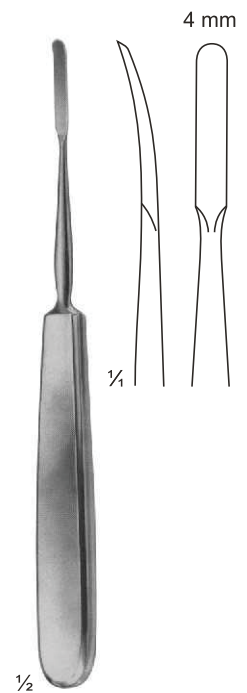
20-139
TRELAT
150 mm



20-140
WILLIGER
140 mm

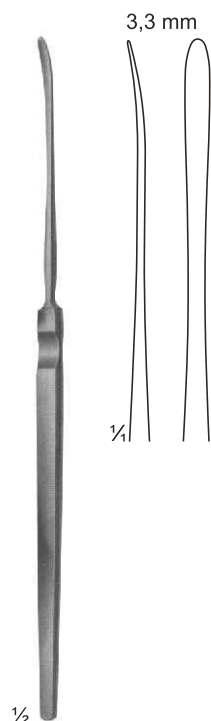


20-141
WILLIGER
160 mm



20-142
JOSEPH
170 mm

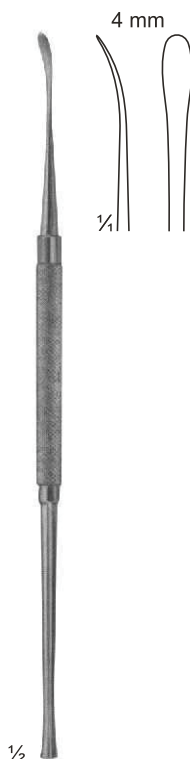
Raspatories



20-143
HALLÉ
stumfp/blunt
180 mm



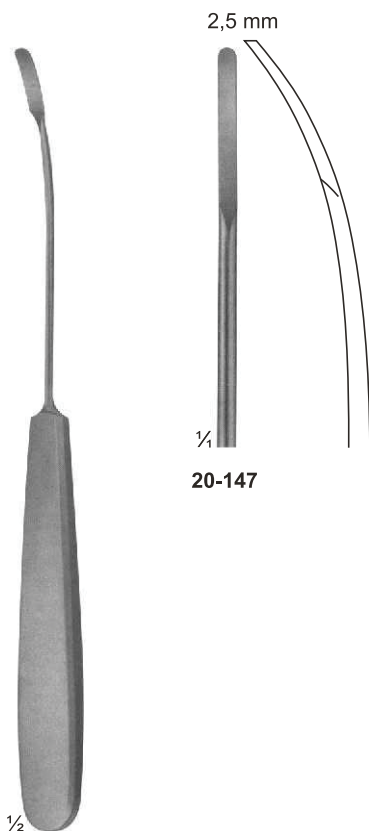
20-144
FREER
stumfp/blunt
190 mm



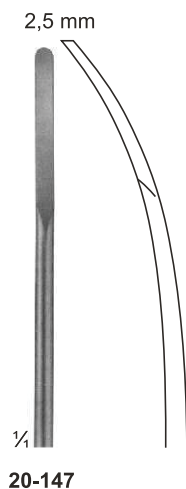
20-145
FREER
stumfp/sharp
190 mm



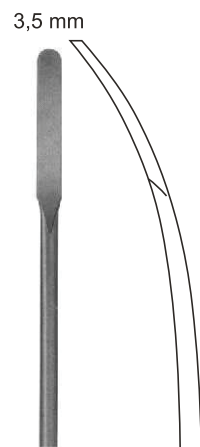
20-146
SEWALL
stumfp/blunt
190 mm



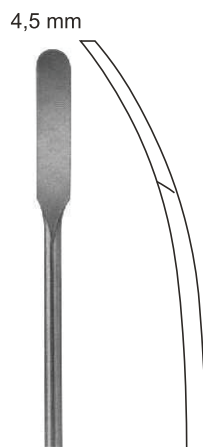
20-147 - 149
PAULSEN
205 mm



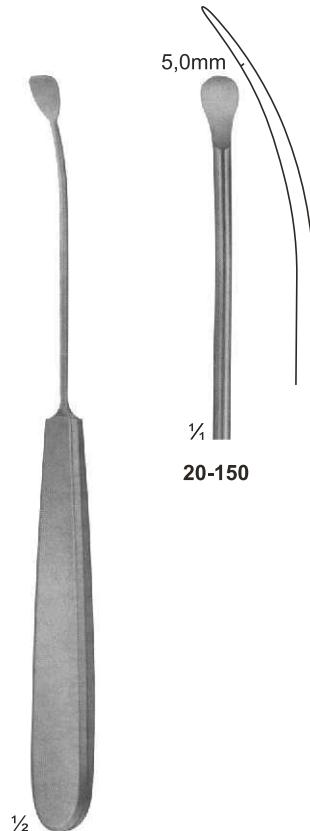
20-147



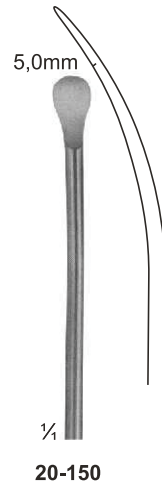
20-148



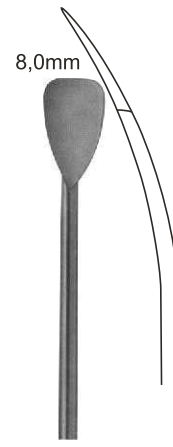
20-149



20-150 - 151
PAULSEN
205 mm

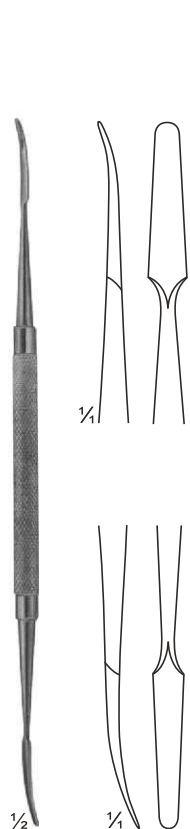


20-150

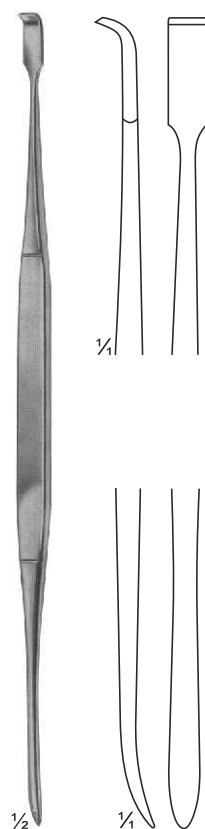


20-151

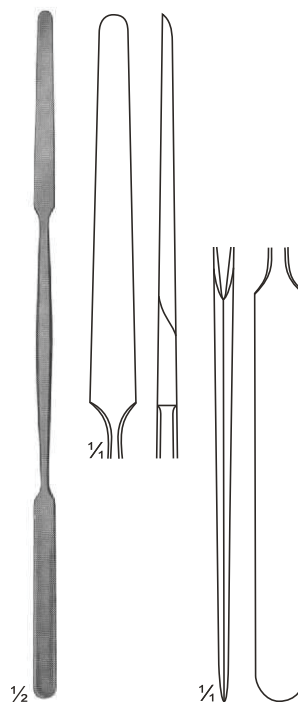
Raspatories



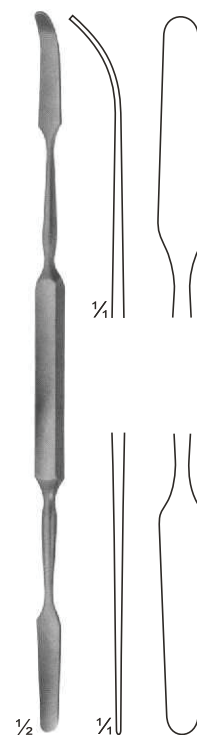
20-152
KILLIAN
sharp/blunt
185 mm



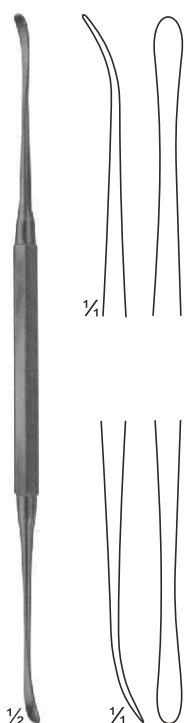
20-153
HOWARTH
sharp/blunt
215 mm



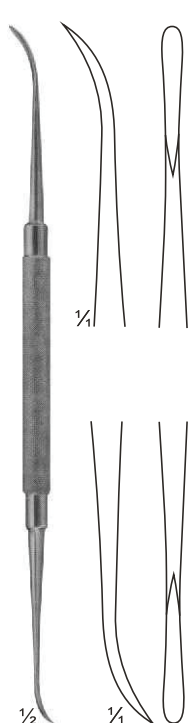
20-154
KILLIAN
sharp/blunt
185 mm



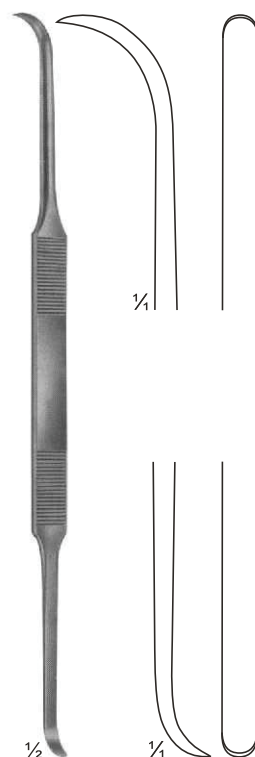
20-155
MAC DONALD
blunt/blunt
185 mm



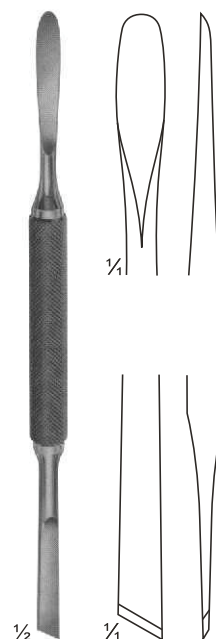
20-156
FREER
sharp/blunt
185 mm



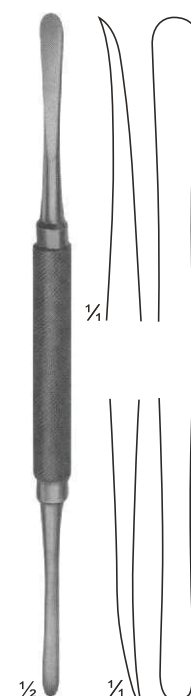
20-157
FREER-YASARGIL
sharp/sharp
185 mm



20-158
COTTLE
sharp/sharp
200 mm

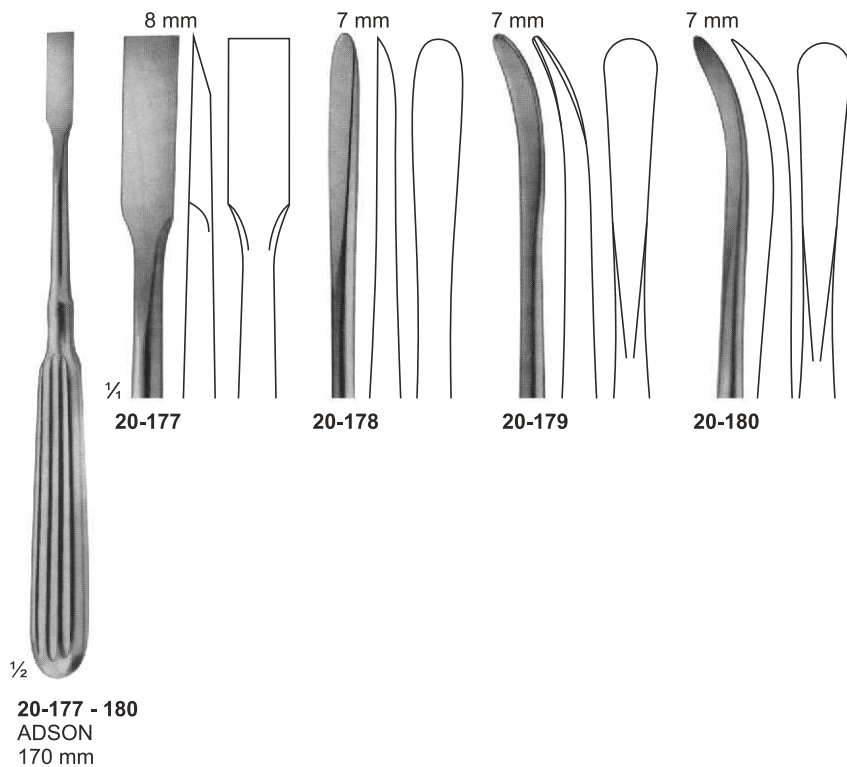
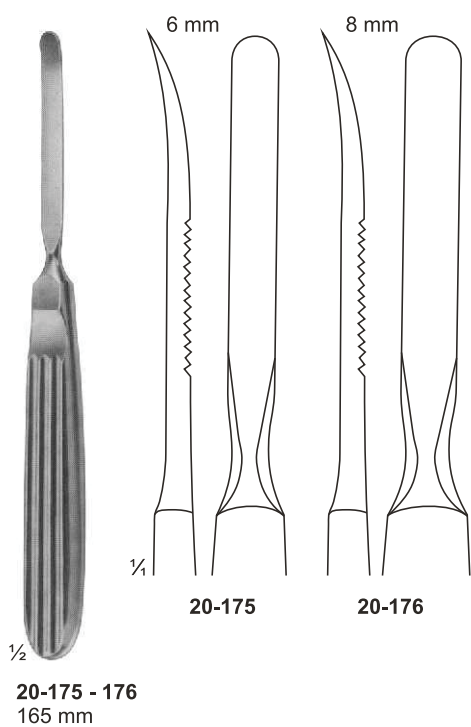
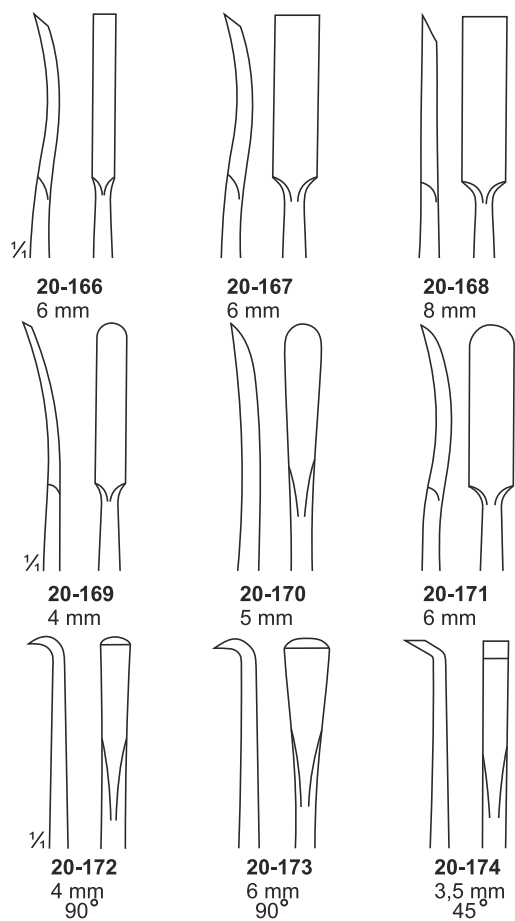
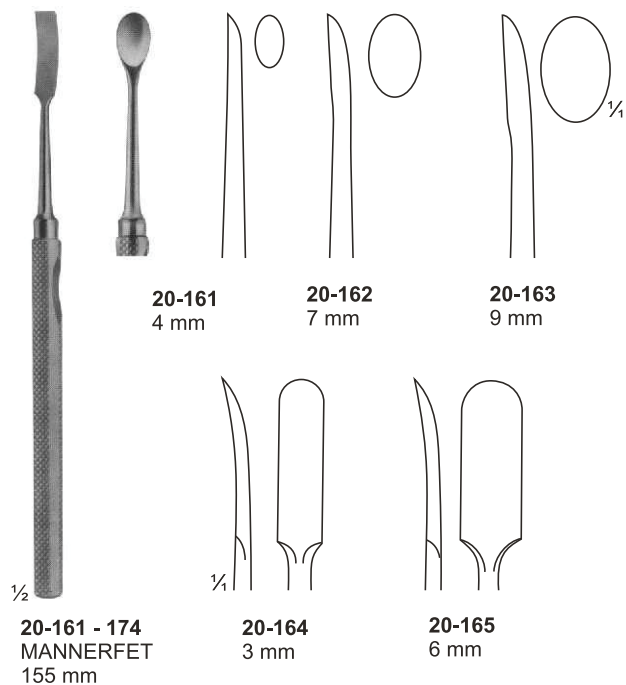


20-159
MEAD
sharp/sharp
165 mm

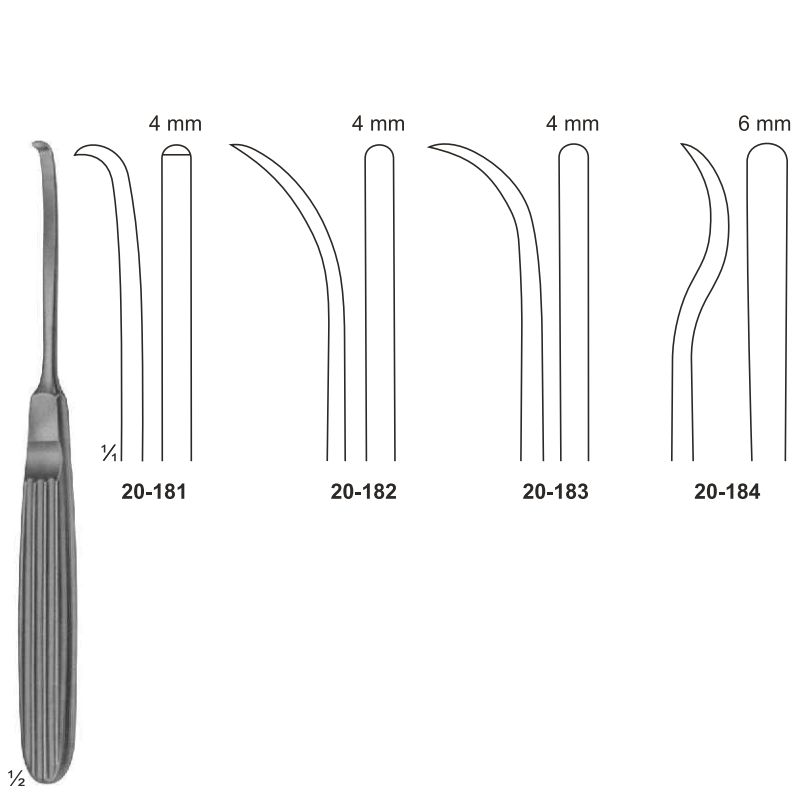


20-160
MOLT
sharp/sharp
180 mm

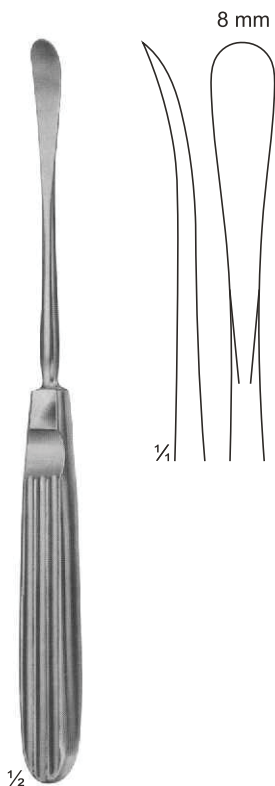
Raspatories



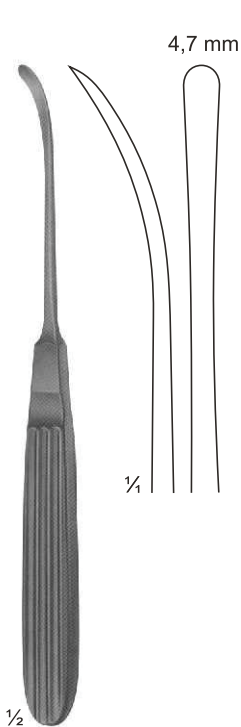
Raspatories



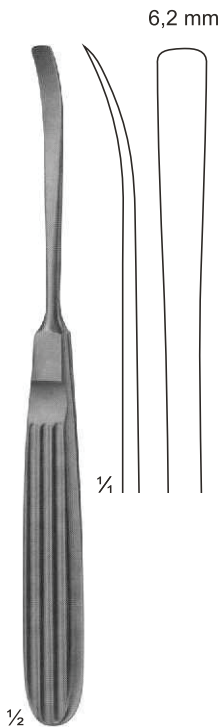
20-181 - 184
MUHLING
170 mm



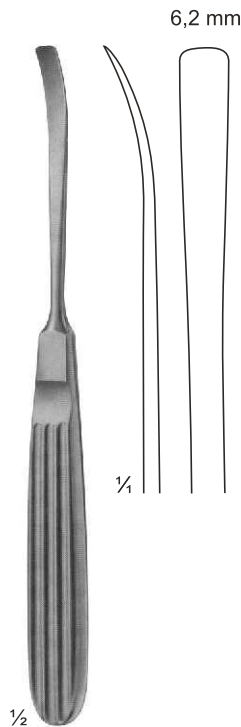
20-185
COTTLE
175 mm



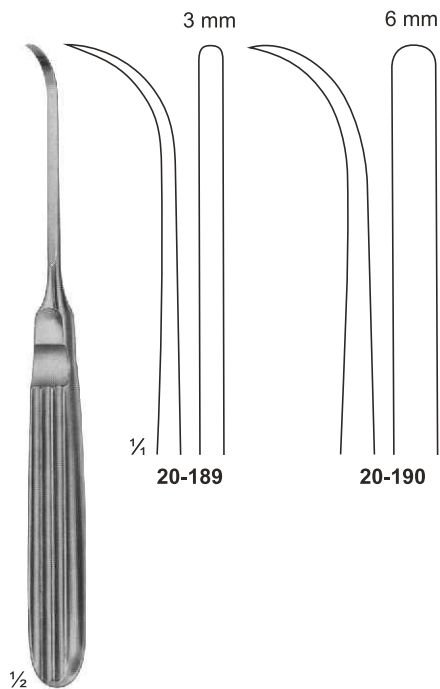
20-186
LANDOT
175 mm



20-187
CASPER
180 mm

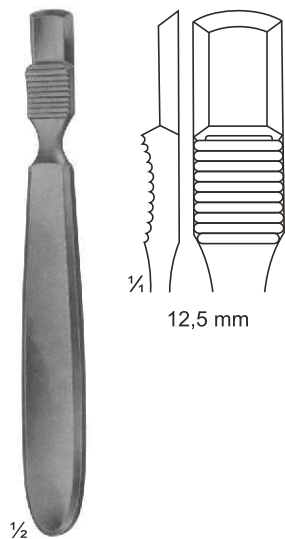


20-188
CASPER
180 mm

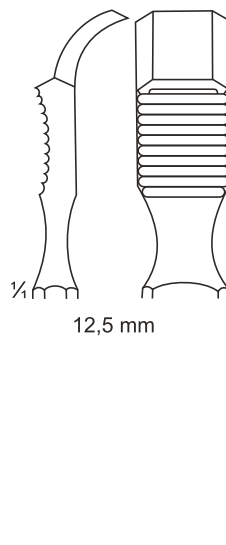


20-189 - 190
170 mm

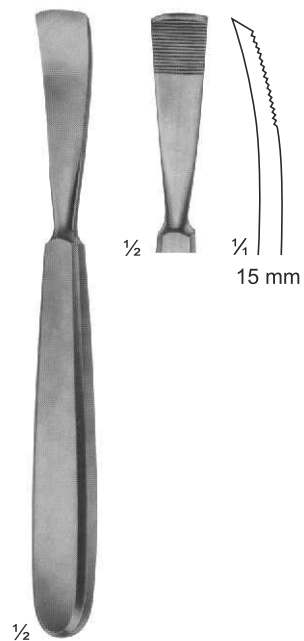
Raspatories



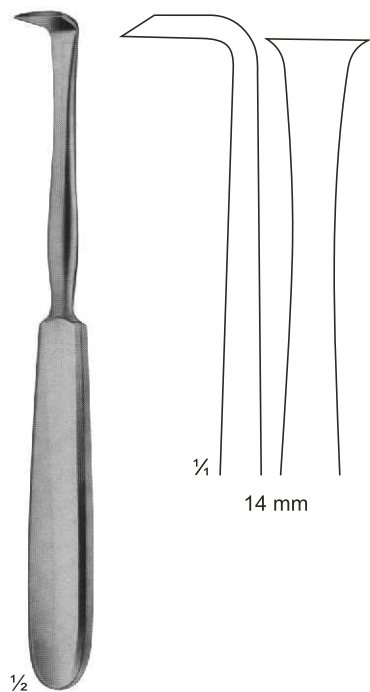
20-191
FARABEU
140 mm



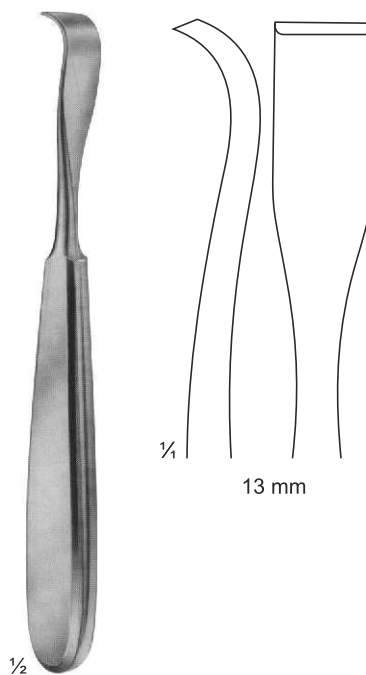
20-192
FARABEU
140 mm



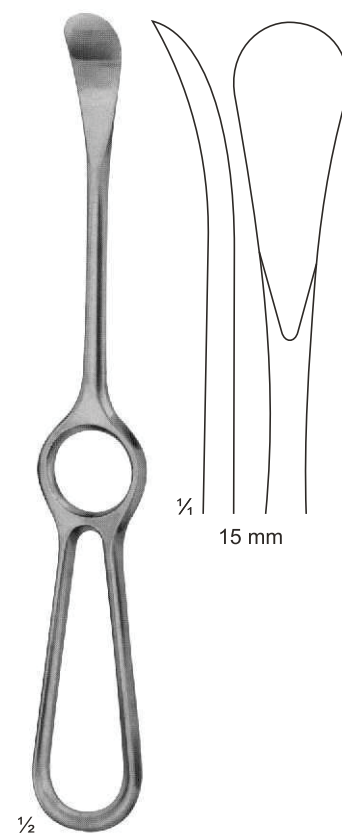
20-193
JANSEN
165 mm



20-194
LANGENBACK
180 mm

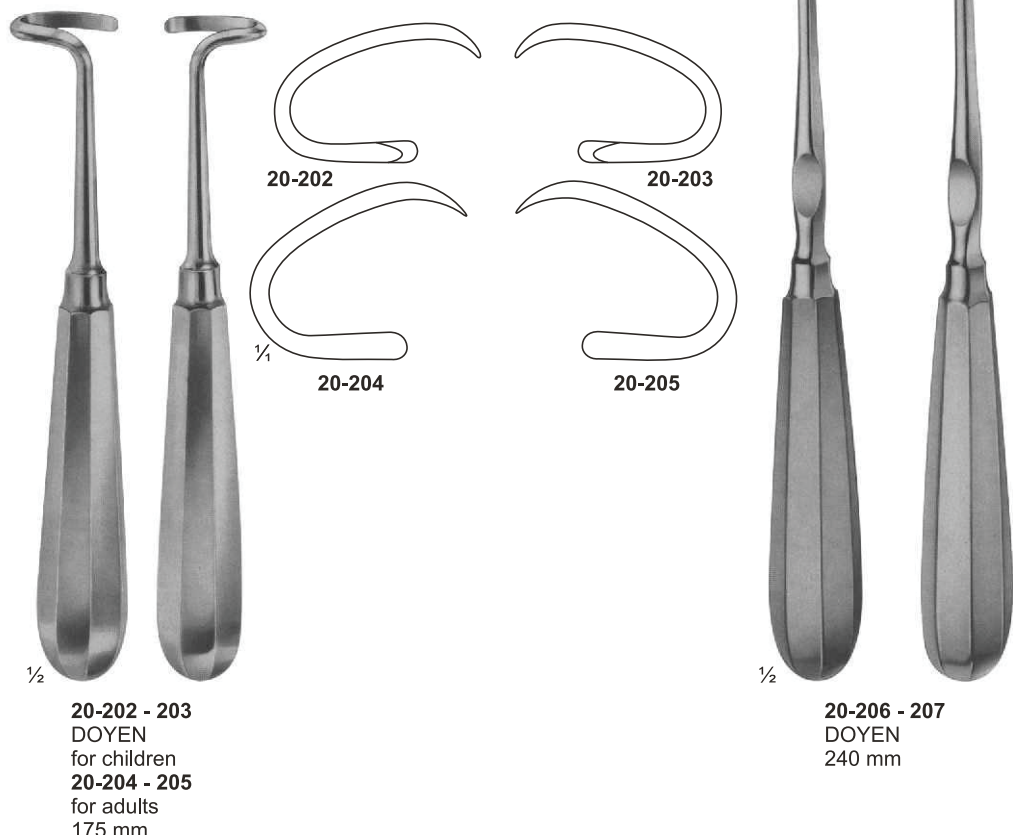
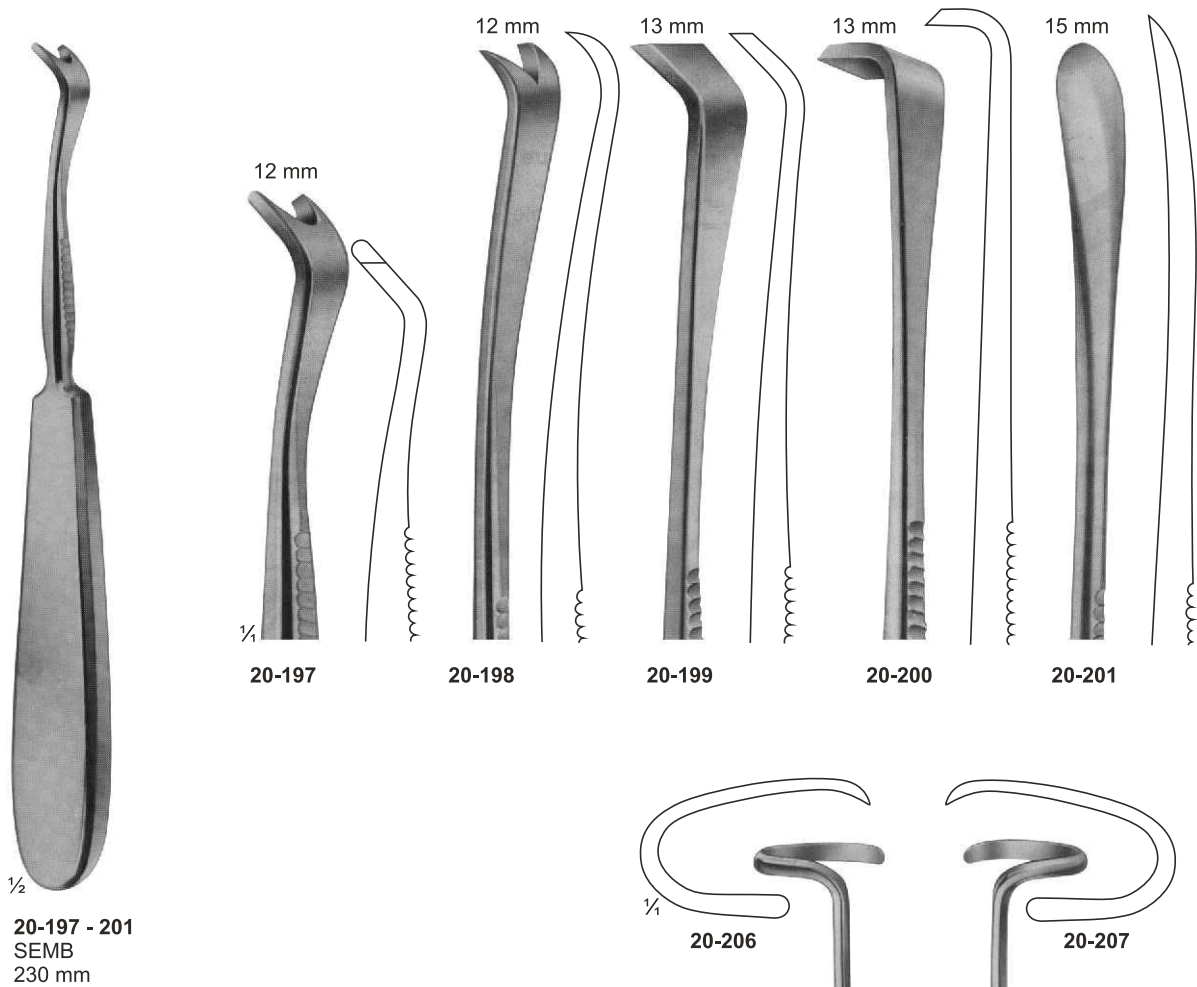


20-195
SCHNEIDER
175 mm

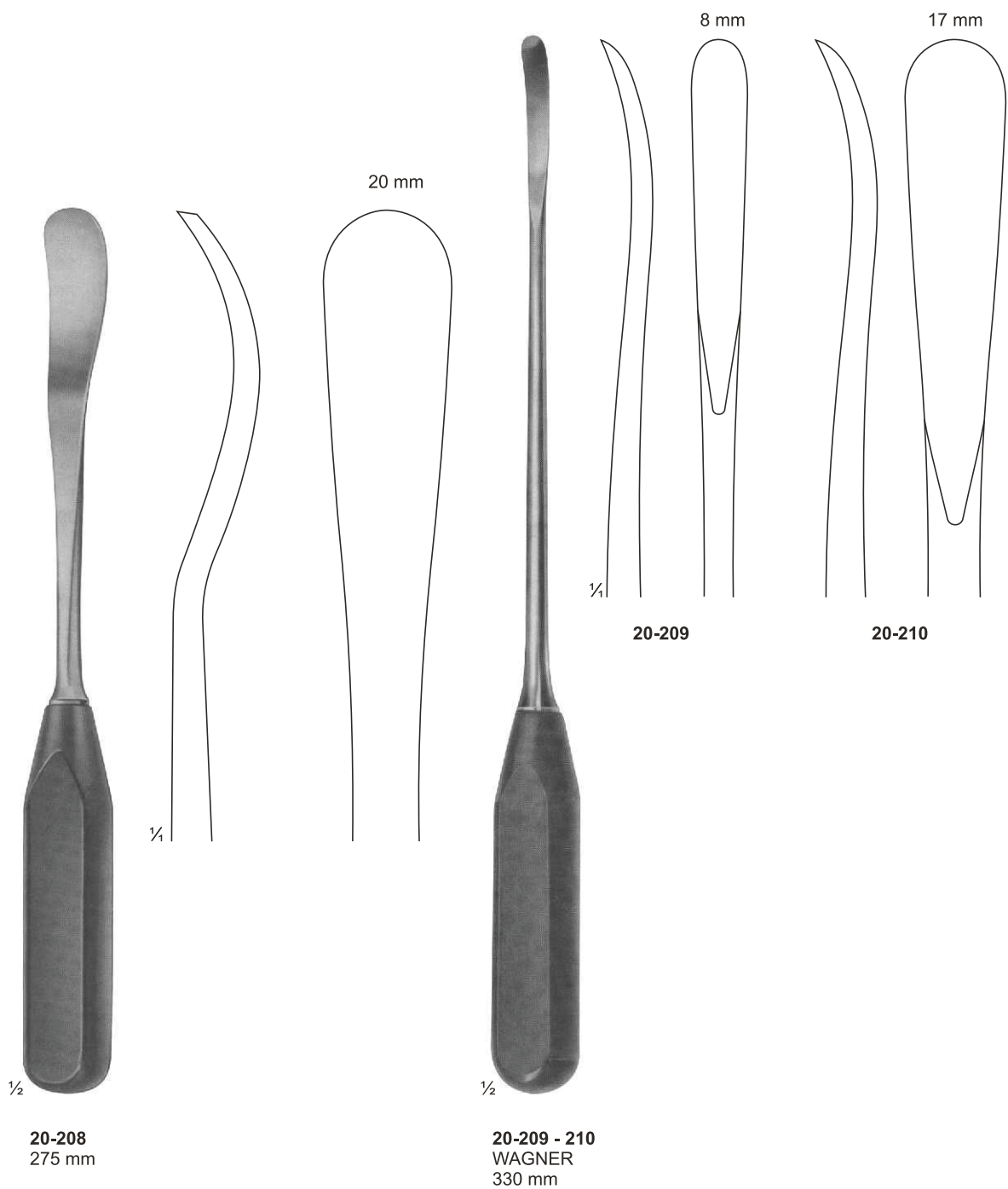


20-196
SEDILLOT
215 mm

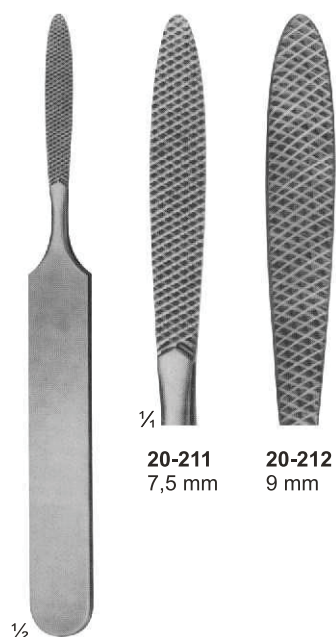
Raspatories



Raspatories with HARTPRESS-handle

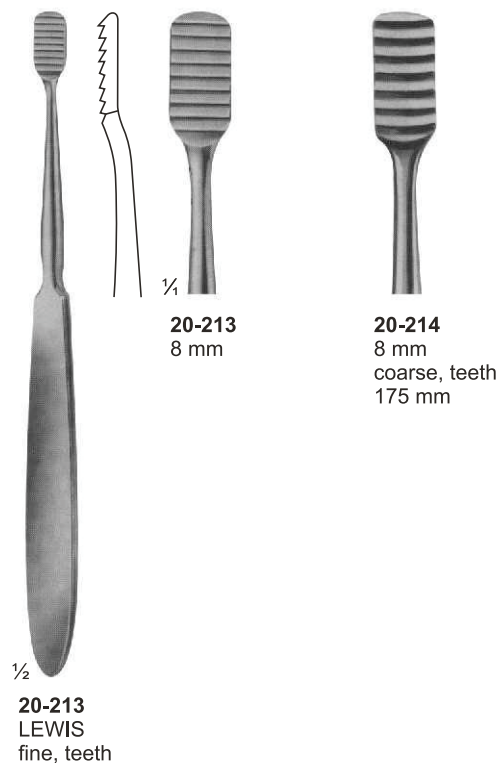


Bone File and Rasps



$\frac{1}{2}$
20-211
JOSEPH
fine, chequered

20-212
coarse, chequered
165 mm

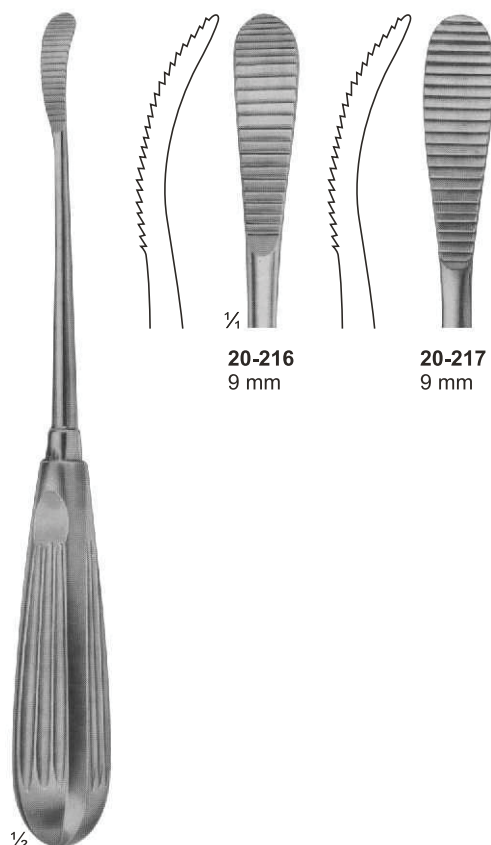


$\frac{1}{2}$
20-213
LEWIS
fine, teeth

20-214
8 mm
coarse, teeth
175 mm



$\frac{1}{2}$
20-215
MALTZ
down stroke
180 mm



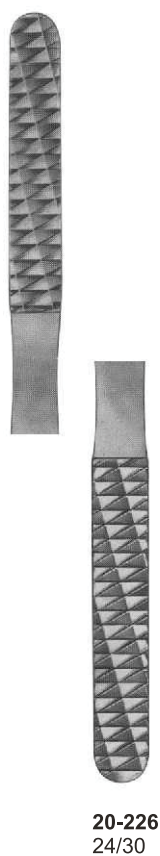
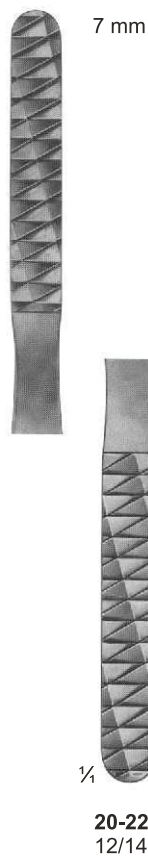
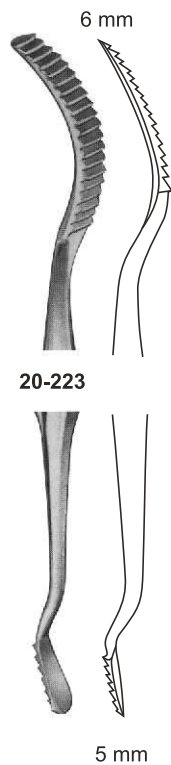
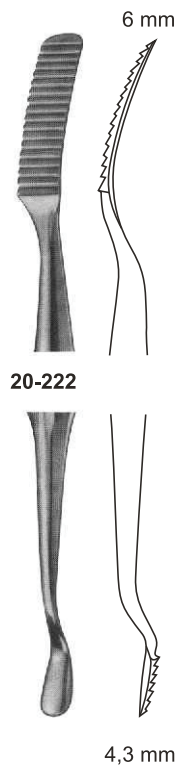
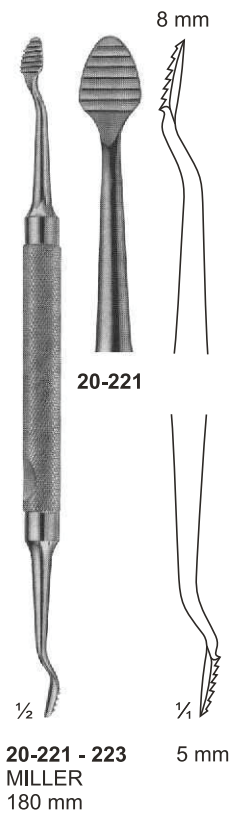
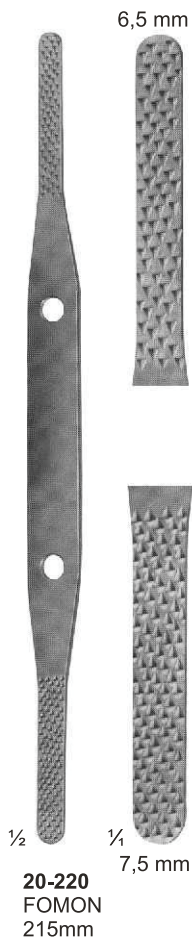
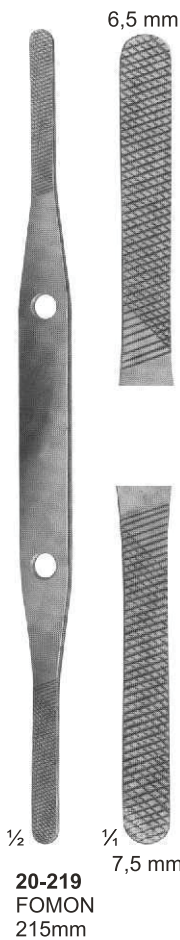
$\frac{1}{2}$
20-216
AUFRICHT
up stroke
20-217
down stroke
220 mm



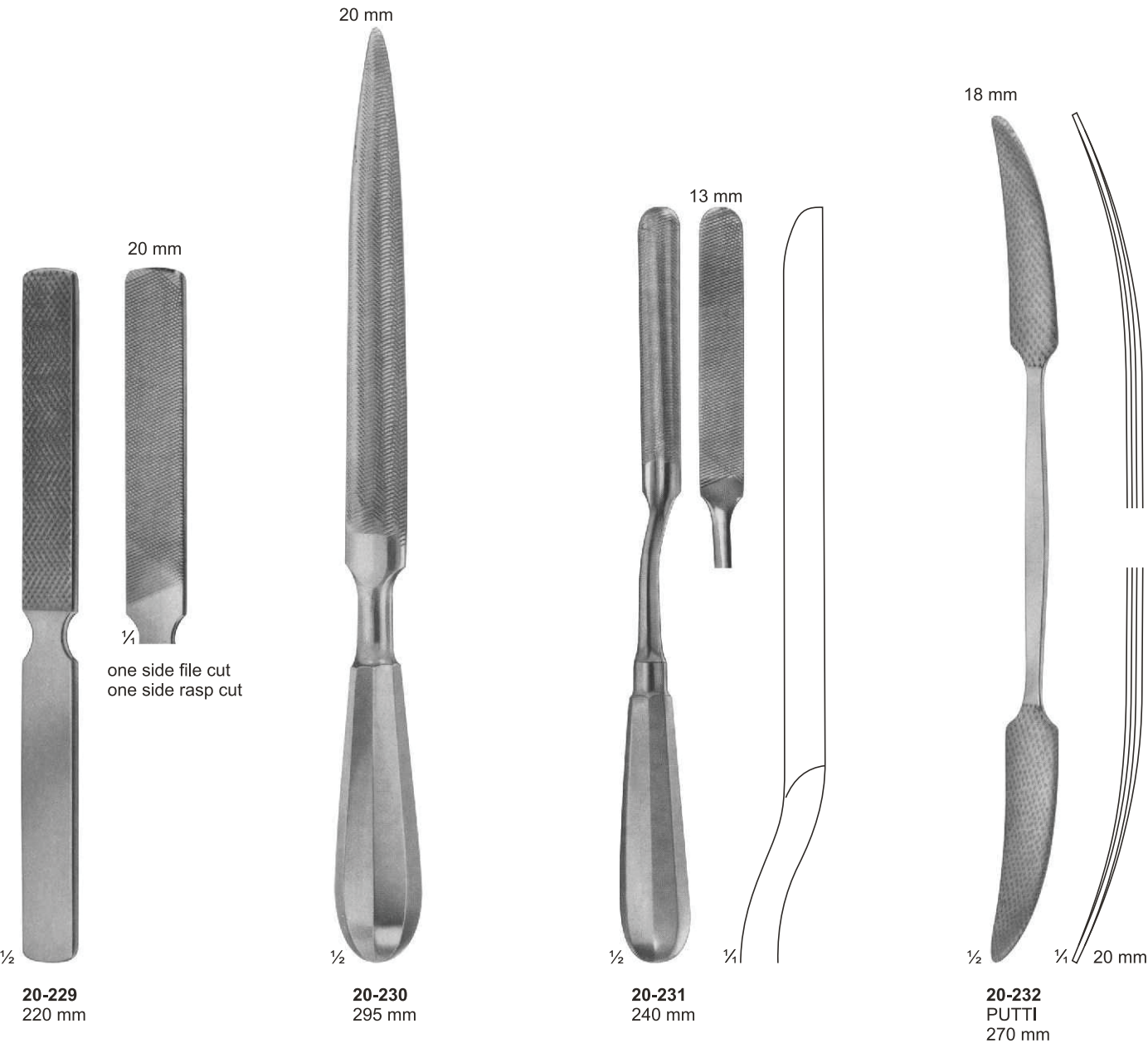
$\frac{1}{2}$
20-218
GALLAHER
190 mm

$\frac{1}{4}$
6,5 mm

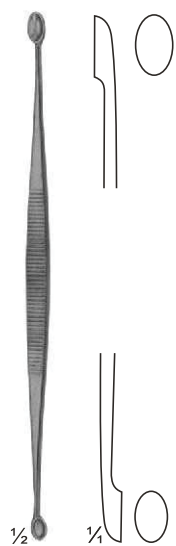
Bone File and Rasps



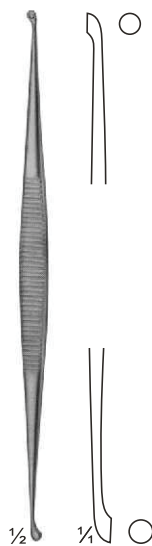
Bone File and Rasps



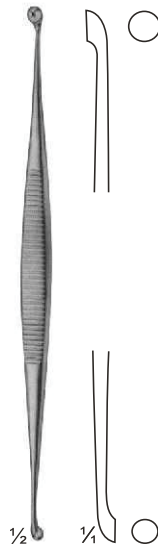
Bone Curettes



20-233
JACOBSON
140 mm



20-234
MARTINI
140 mm



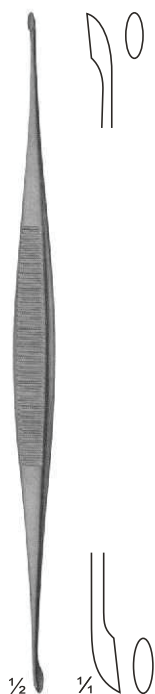
20-235
MARTINI
140 mm



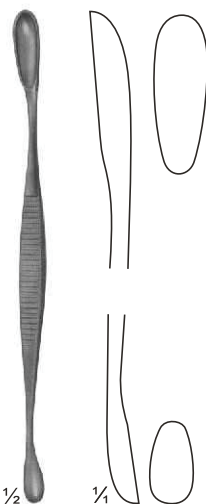
20-236
WILLIGER
145 mm



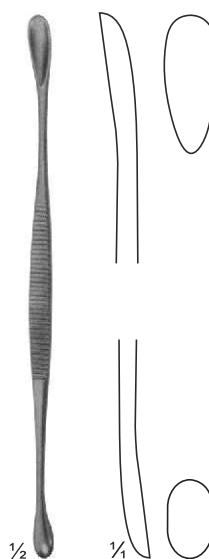
20-237
JANSEN
160 mm



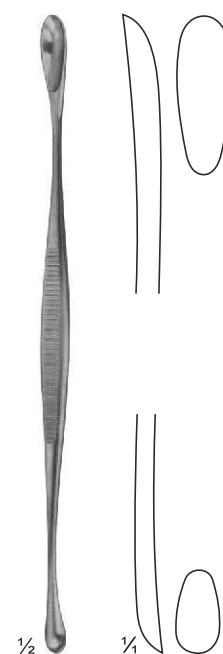
20-238
BARTH
180 mm



20-239
VOLKMANN
130 mm



20-240
VOLKMANN
145 mm

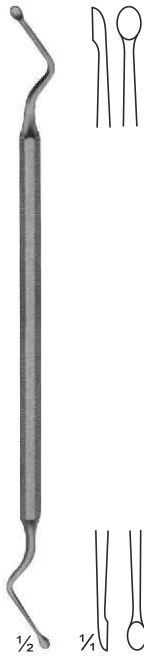


20-241
VOLKMANN
170 mm

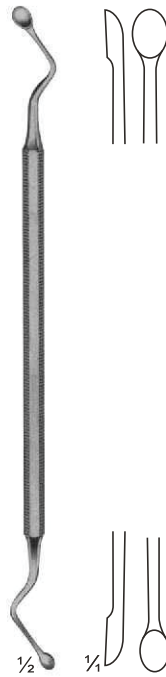
Bone Curettes



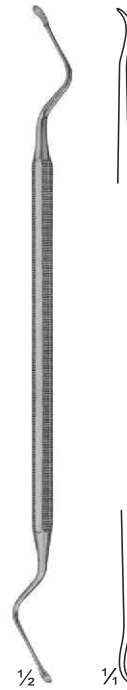
20-242
JANSEN
160 mm



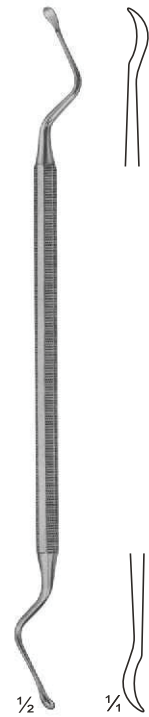
20-243
HEMINGWAY
170 mm



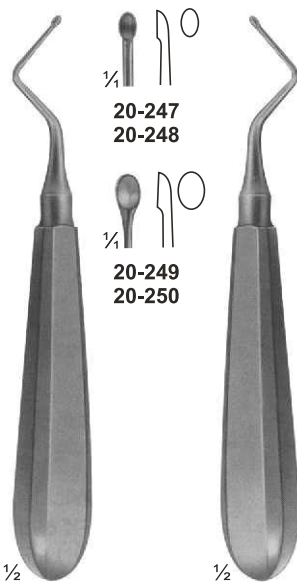
20-244
HEMINGWAY
175 mm



20-245
LUCAS
180 mm



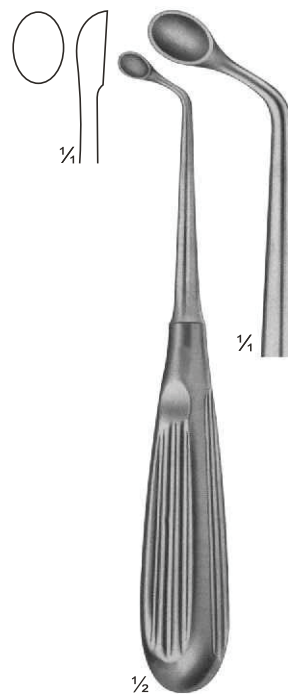
20-246
LUCAS
185 mm



20-247 - 248
KERPEL
145 mm



20-249 - 250
KERPEL
145 mm



20-251
UFFENORDE
170 mm



20-252
UFFENORDE
170 mm

Bone Curettes



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20-253 - 259
BRUNS
165 mm



20-253
3 mm
Fig: 000



20-254
4 mm
00



20-255
5 mm
0



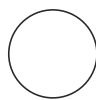
20-256
6 mm
Fig: 1



20-257
8 mm
2



20-258
10 mm
3



20-259
12 mm
4



1/2

20-260 - 266
SCHEDE
170 mm



20-260
2,5 mm
Fig: 000



20-261
3,4 mm
00



20-262
4,2 mm
0



20-263
5,2 mm
Fig: 1



20-264
6,3 mm
2



20-265
7,4 mm
3



20-266
8 mm
4



1/2

20-267 - 276
VOLKMANN
170 mm



20-267
2,8 mm
Fig: 0000



20-268
3,6 mm
000



20-269
4,4 mm
00



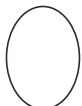
20-270
5,2 mm
0



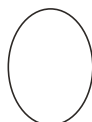
20-271
6,8 mm
1



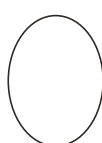
20-272
8,5 mm
Fig: 2



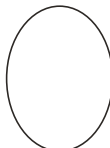
20-273
10 mm
3



20-274
11,5 mm
4



20-275
13 mm
5



20-276
14,5 mm
6



1/2

20-277 - 278
WILLIGER
170 mm

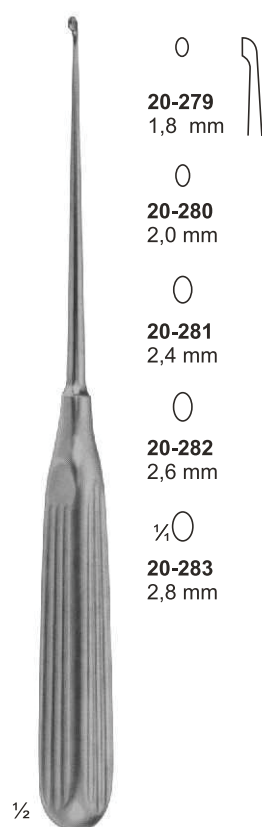


20-277
3,4 mm
Fig: 00



20-278
5,2 mm
1

Bone Curettes



20-279
1,8 mm

20-280
2,0 mm

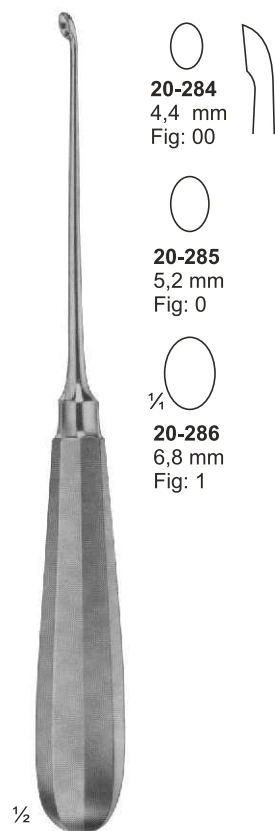
20-281
2,4 mm

20-282
2,6 mm

20-283
2,8 mm

1/2

20-279 - 283
LEMPERT
215 mm



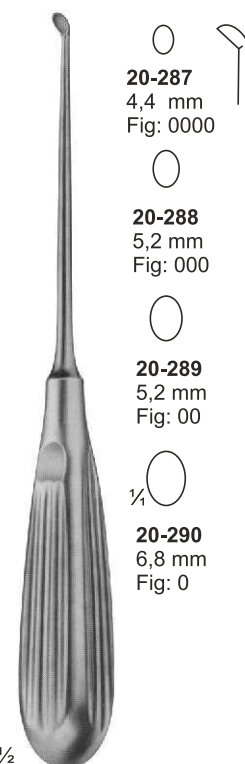
20-284
4,4 mm
Fig: 00

20-285
5,2 mm
Fig: 0

20-286
6,8 mm
Fig: 1

1/2

20-284 - 286
HALLE
215 mm



20-287
4,4 mm
Fig: 0000

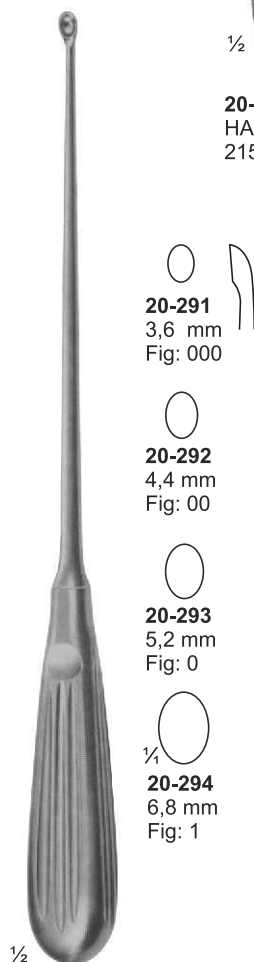
20-288
5,2 mm
Fig: 000

20-289
5,2 mm
Fig: 00

20-290
6,8 mm
Fig: 0

1/2

20-287 - 290
DAUBENSPECK
200 mm



20-291
3,6 mm
Fig: 000

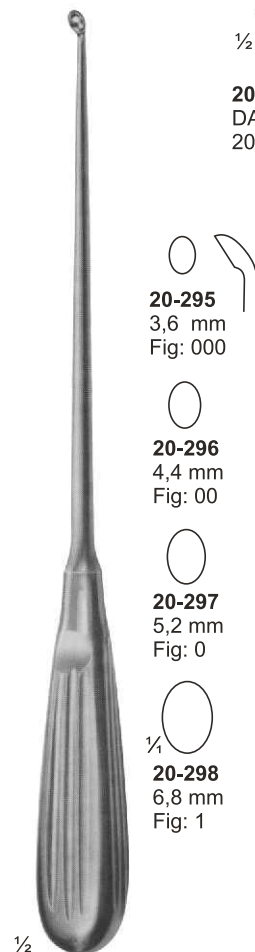
20-292
4,4 mm
Fig: 00

20-293
5,2 mm
Fig: 0

20-294
6,8 mm
Fig: 1

1/2

20-291 - 294
250 mm



20-295
3,6 mm
Fig: 000

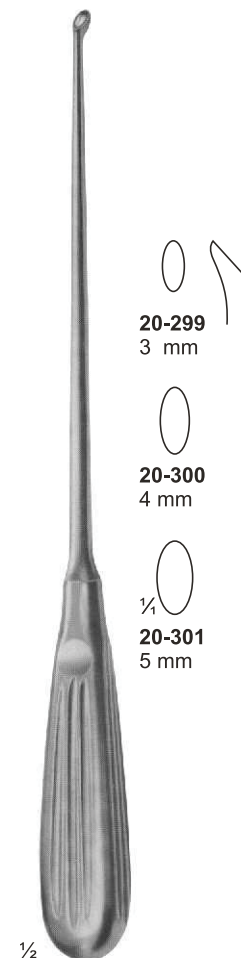
20-296
4,4 mm
Fig: 00

20-297
5,2 mm
Fig: 0

20-298
6,8 mm
Fig: 1

1/2

20-295 - 298
250 mm



20-299
3 mm

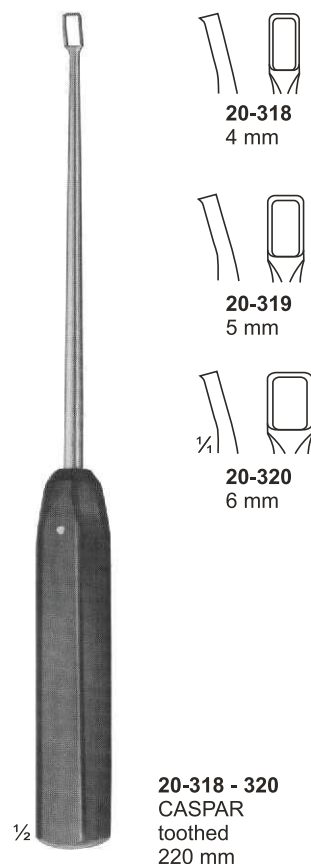
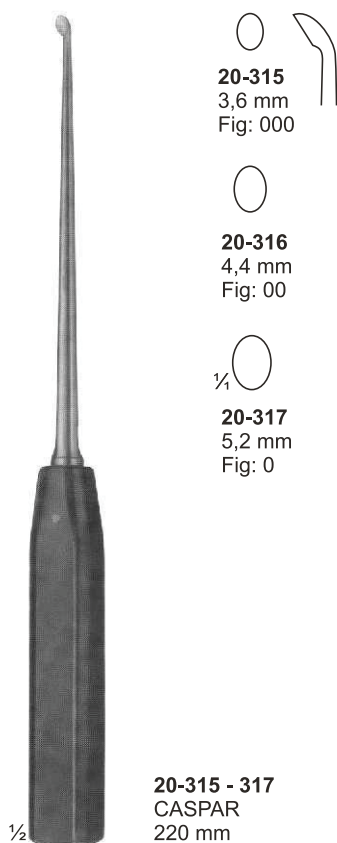
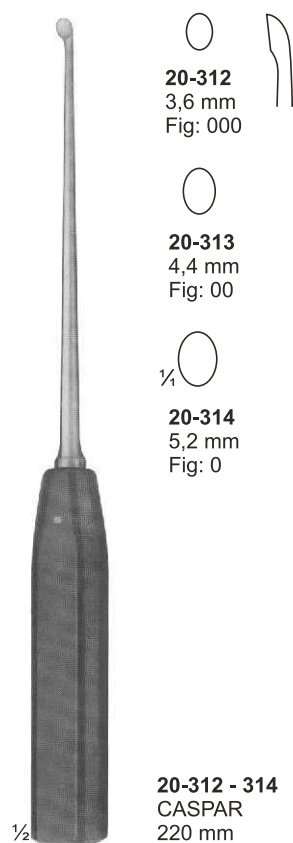
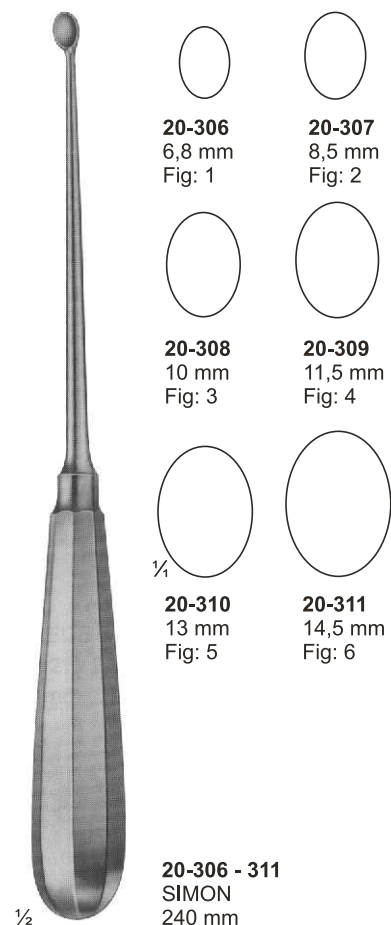
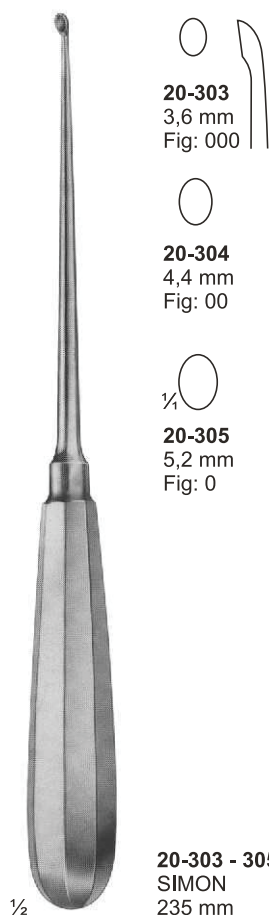
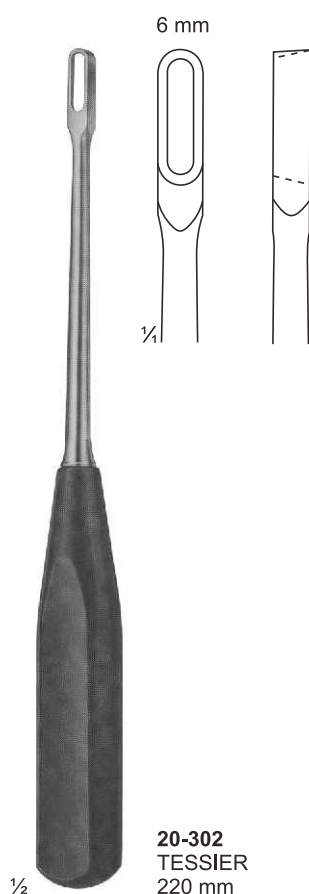
20-300
4 mm

20-301
5 mm

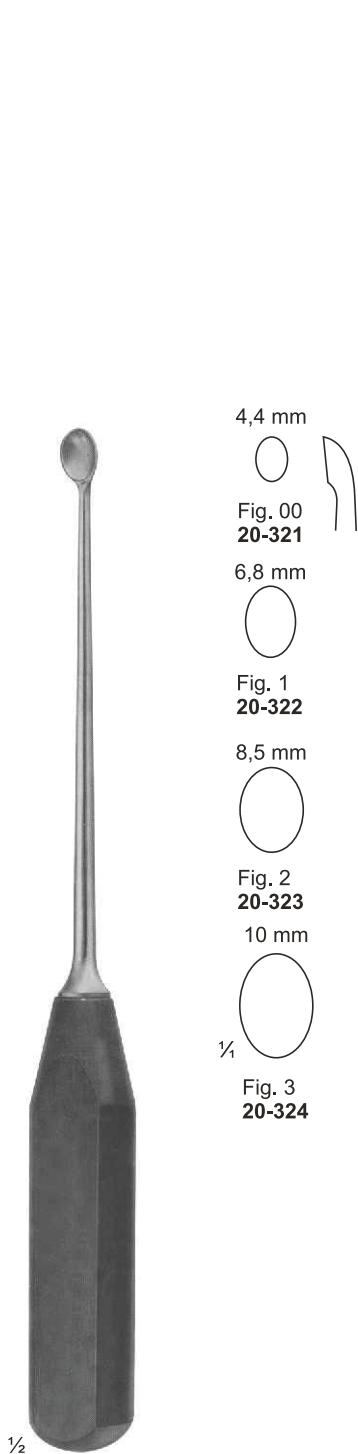
1/2

20-299 - 301
BUSHE
250 mm

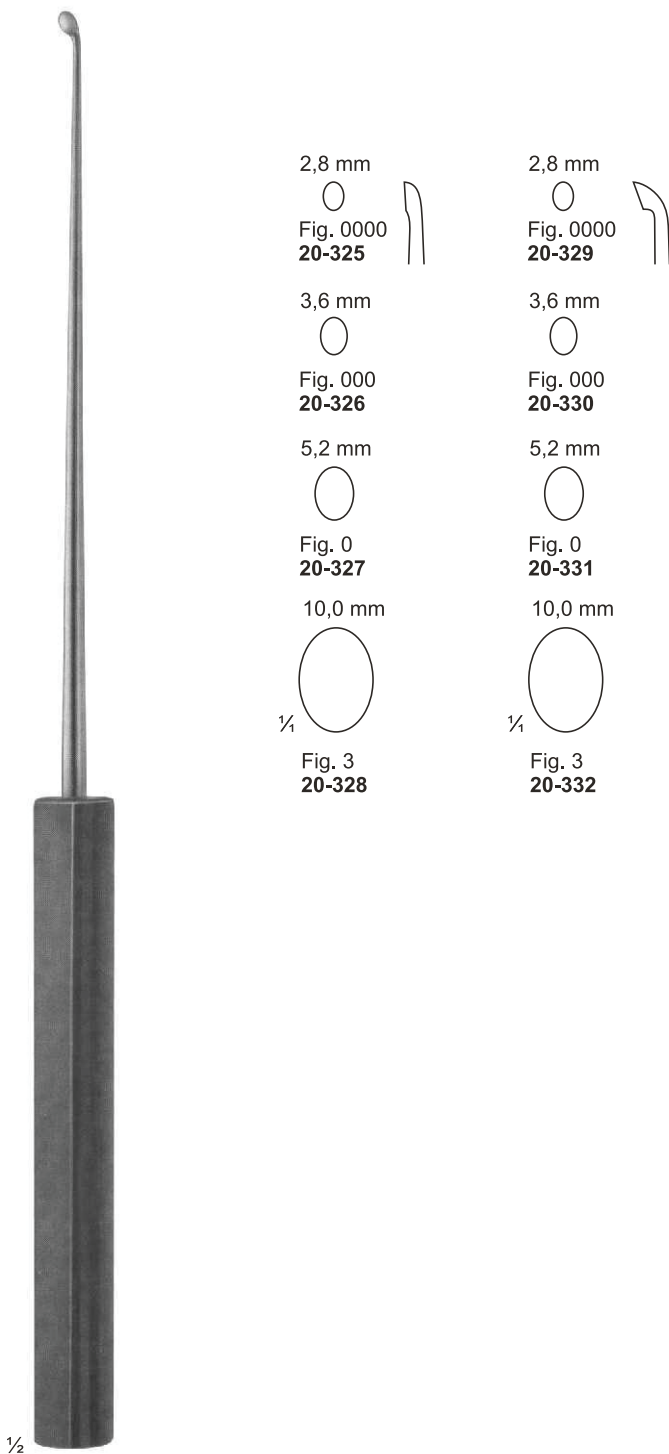
Bone Curettes



Bone Curettes



20-321 - 324
270 mm



20-325 - 332
SYPERT
380 mm

Mallets



21-101
MEAD
185 g
with interchangeable
plastic disks
190 mm
21-102
pair of spare disks



21-103
140 g
with interchangeable
plastic disks
185 mm
21-104
pair of spare disks



21-105
COTTLE
140 g
1 Seite convex
1 Side convex
185 mm



21-106
165 g
lead filled head
190 mm

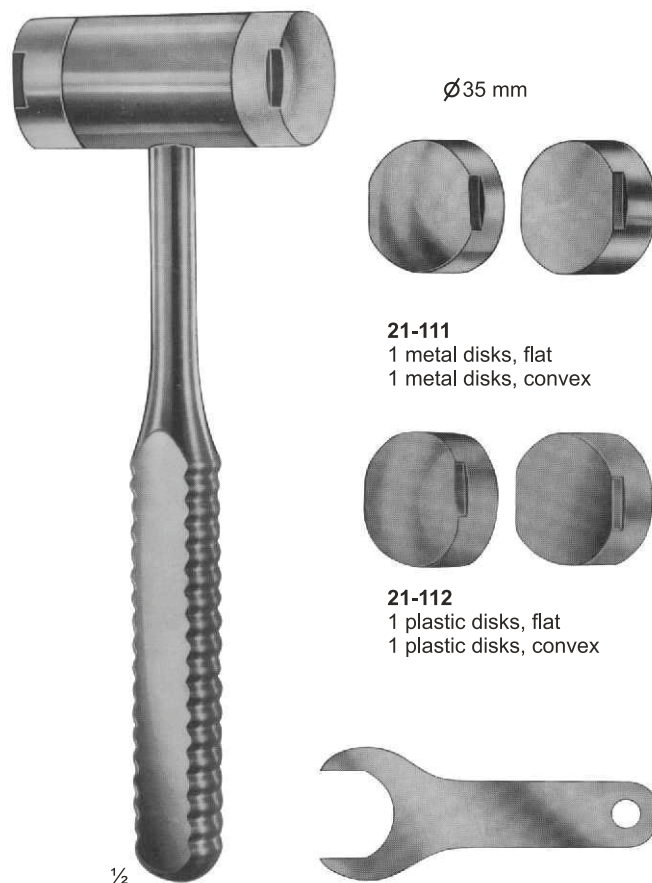
Mallets



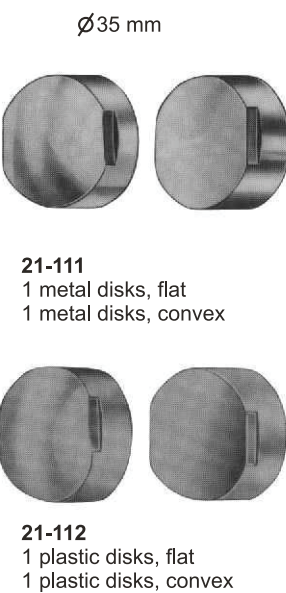
21-107
HAJEK
140 g
215 mm



21-108
215 g
with interchangeable
plastic disks
245 mm
21-109
pair of spare disks

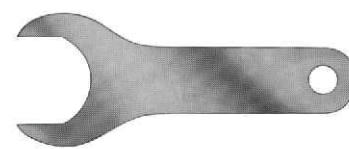


21-110 - 113
WAGNER
complete with:
1 pair of metal disks and
1 pair of plastic disks and
1 wrench 566
235 mm



21-111
1 metal disks, flat
1 metal disks, convex

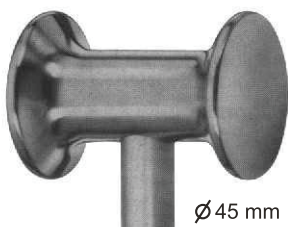
21-112
1 plastic disks, flat
1 plastic disks, convex



21-113
Wrench

Mallet without disks 130 g

Mallets



1/2

21-114
BERGMANN
245 mm



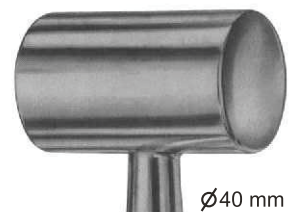
1/2

21-115
BERGMANN
235 mm



1/2

21-116
OMBREDANNE
240 mm



1/2

21-117
HEATH
copper filled head
700 g
185 mm