

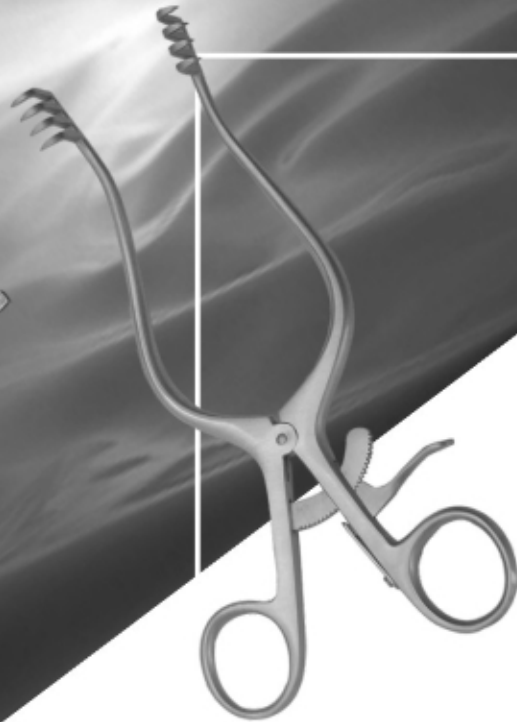
SECTION

PAGE

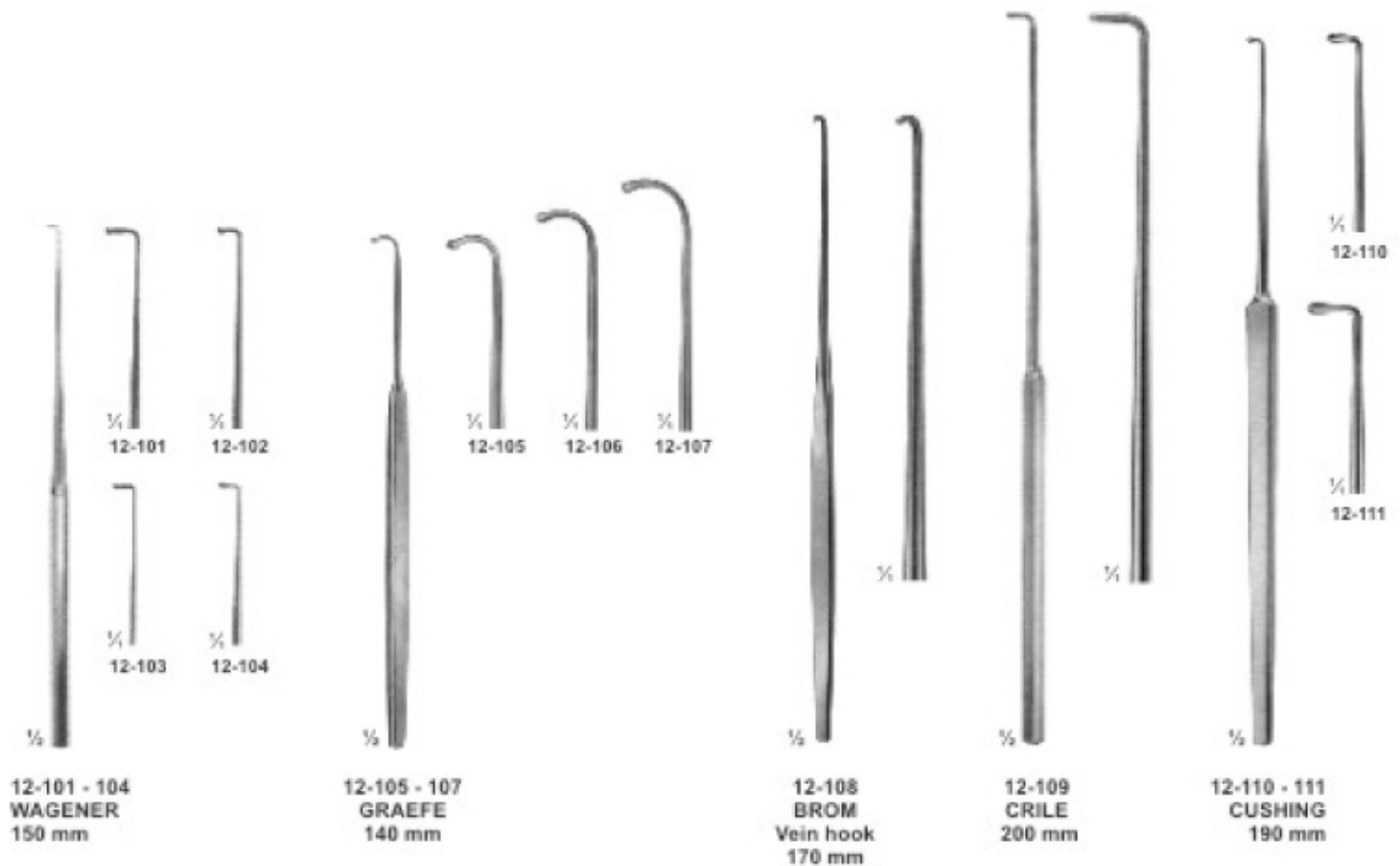
**Hooks
And
Retractors**

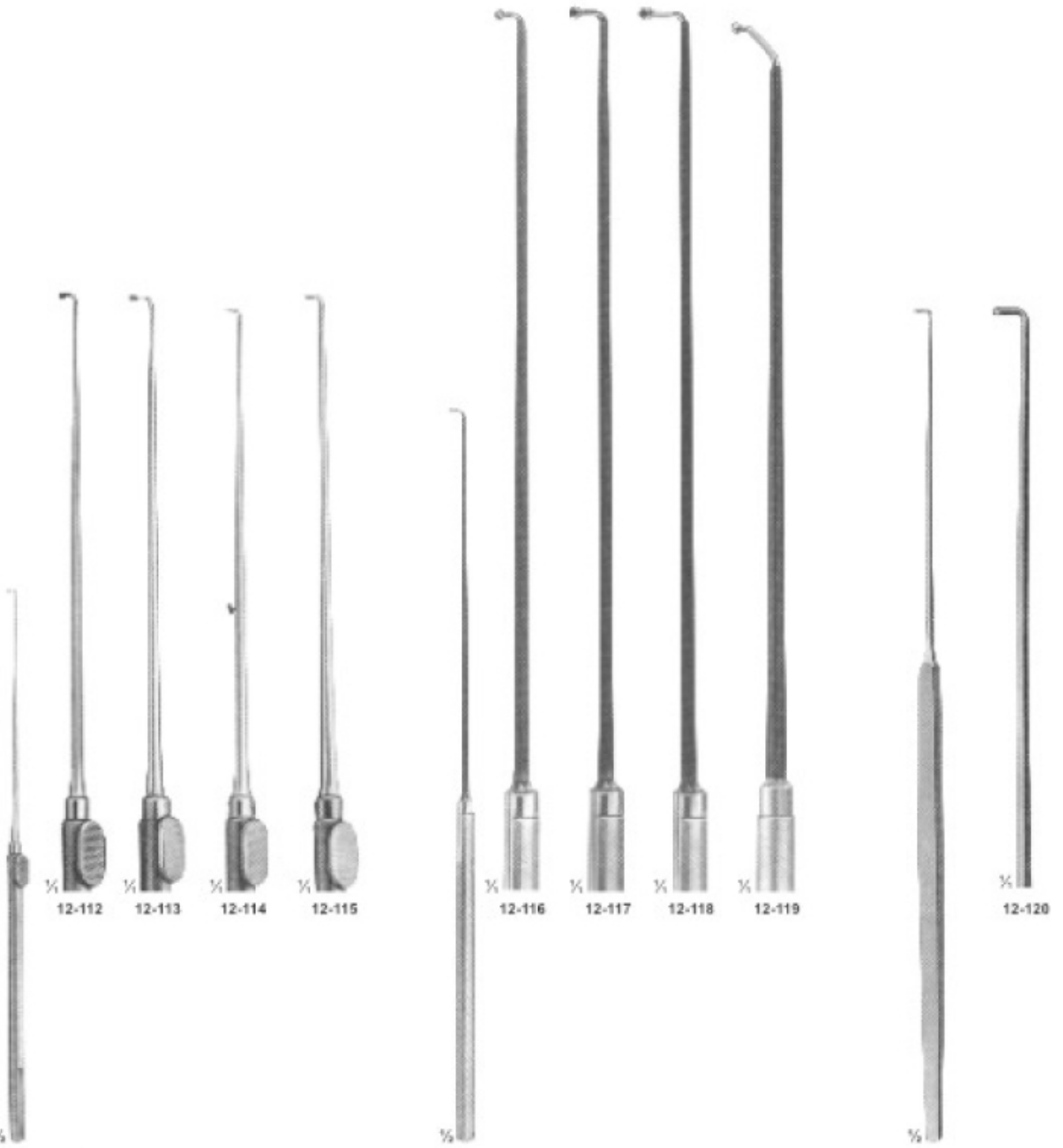
12

115-167



Nerve - and Vessel Hooks

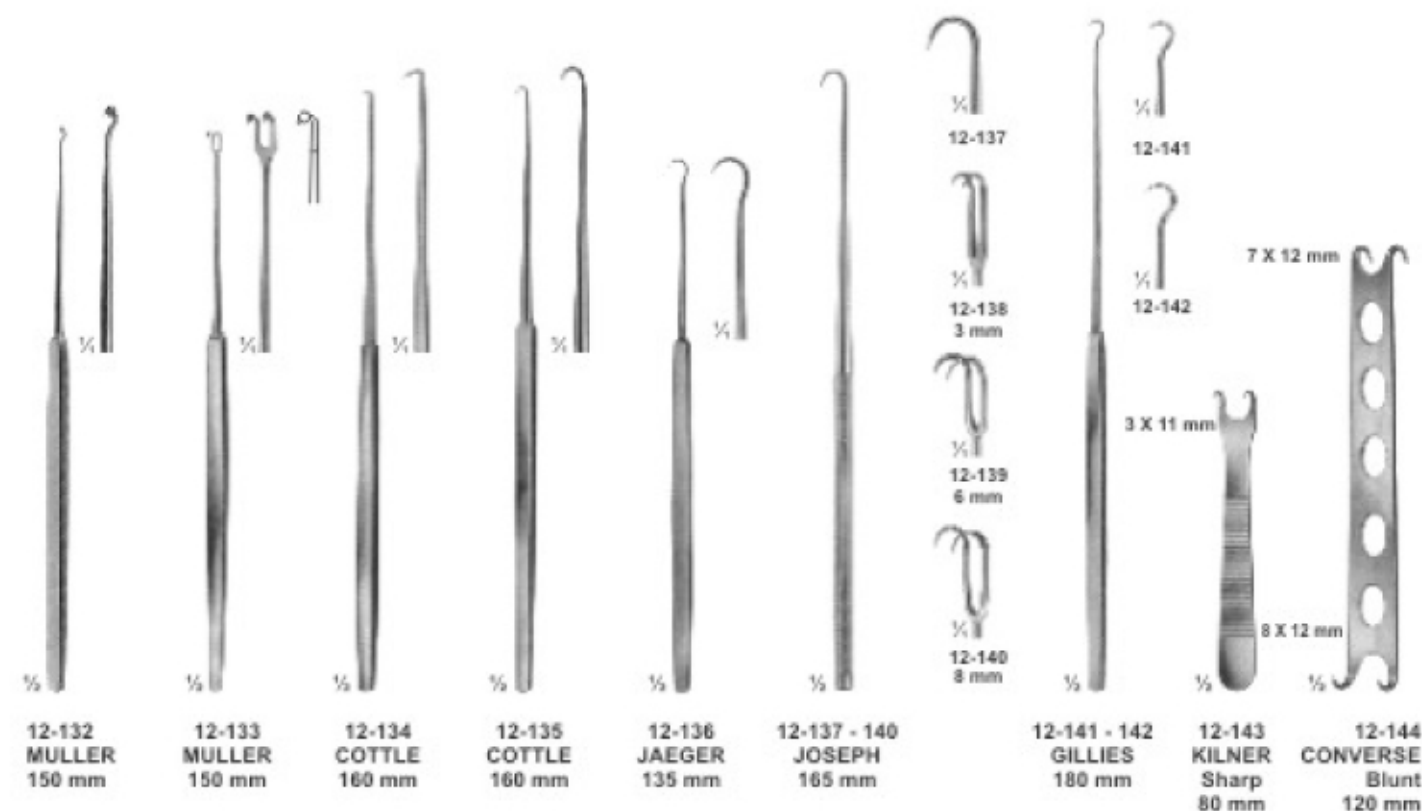
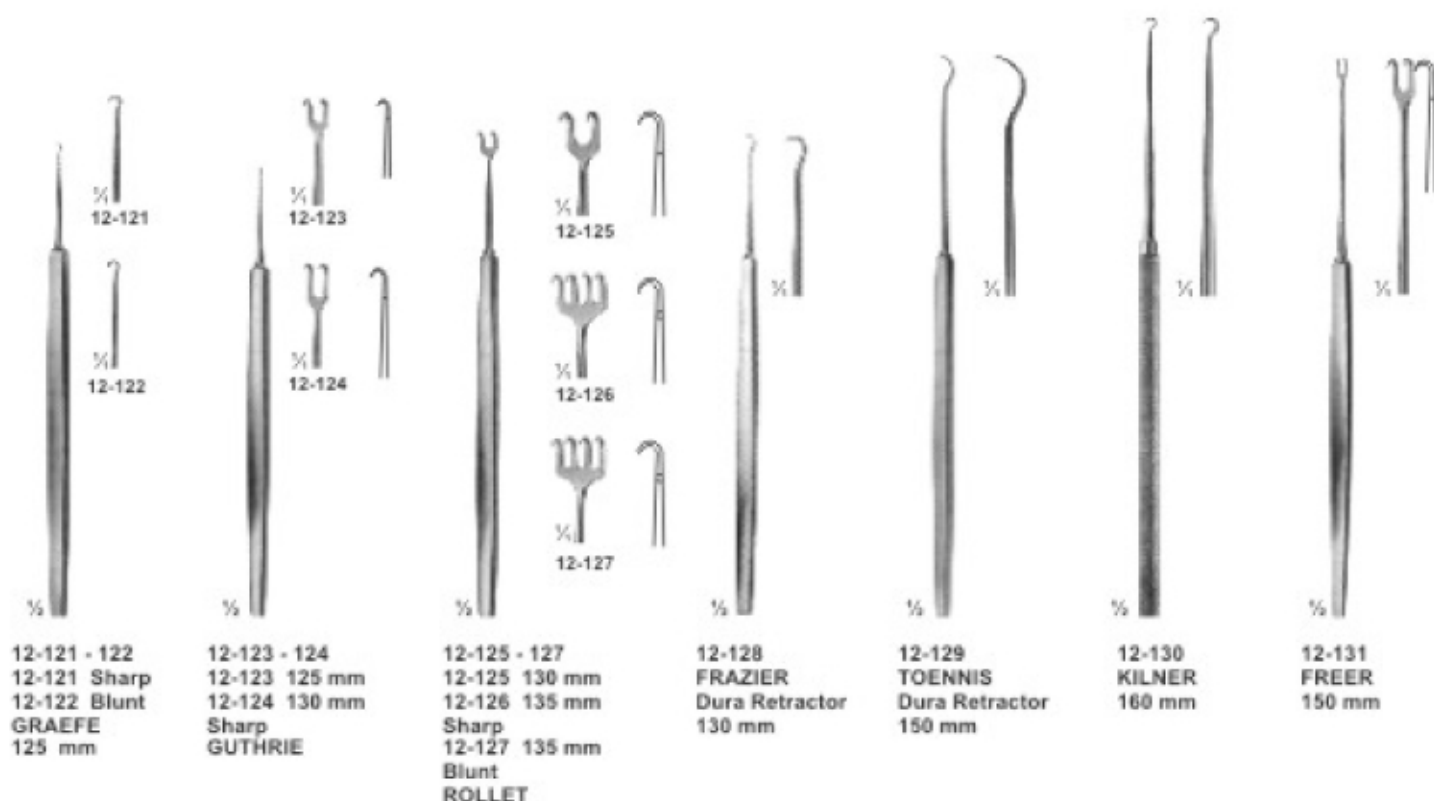




12-112 - 115
KRAYENBUHL
185 mm

12-116 - 119
CASPAR
245 mm
Exploration and coagulation
hook, probe-end, insulated.

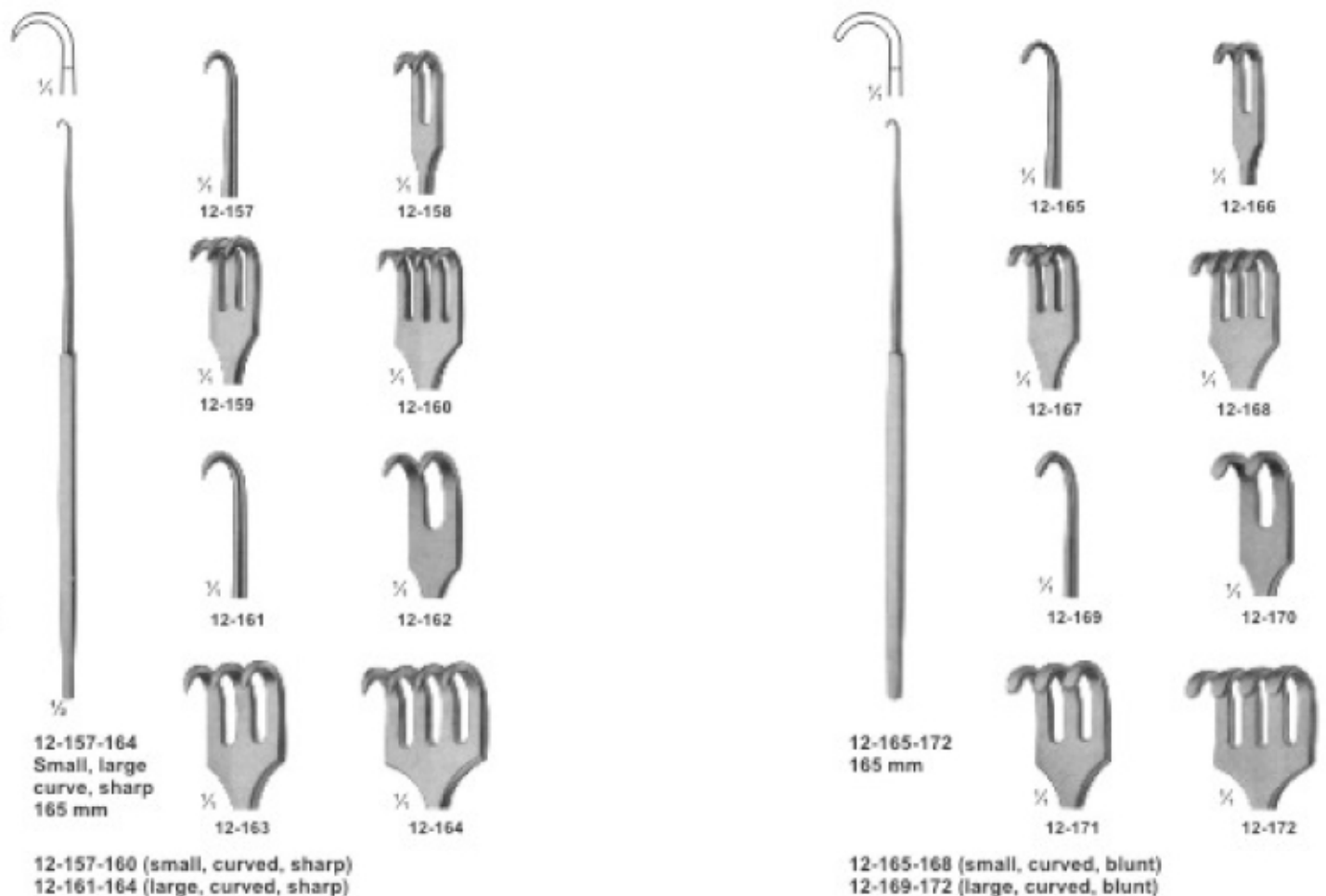
12-120
CUSHING
280 mm

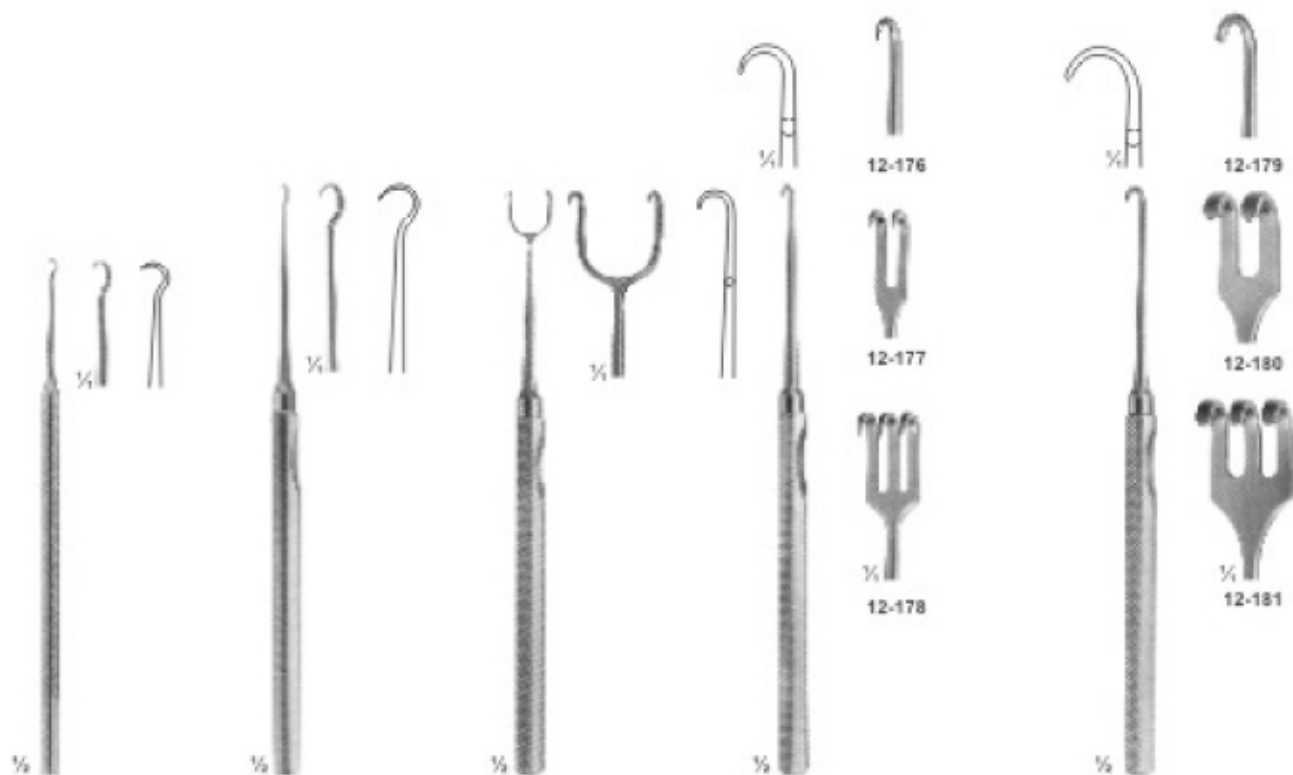


Wound - Trachea Retractors



118





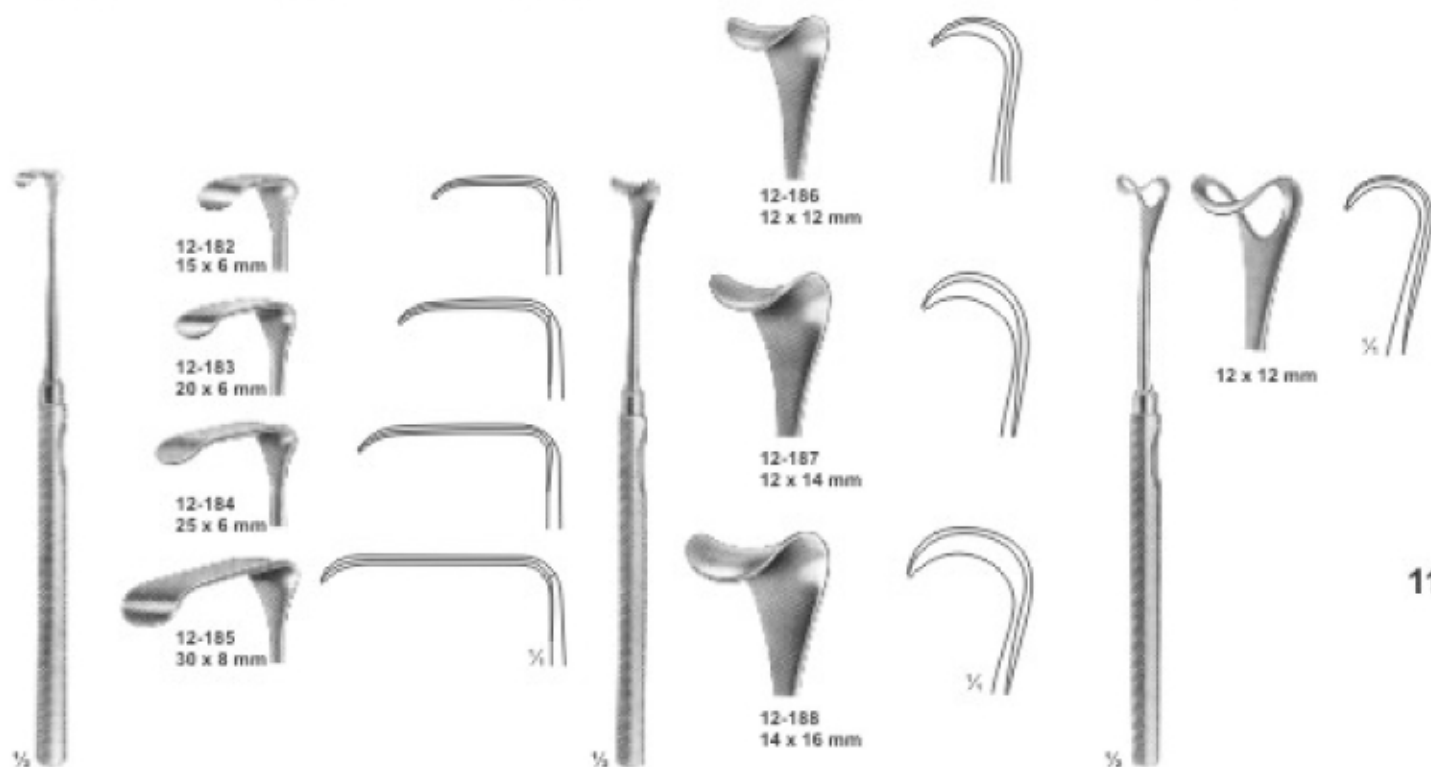
12-173
MANNERFELT modif.
sharp
135 mm

12-174
MANNERFELT modif.
sharp
155 mm

12-175
MANNERFELT modif.
sharp
155 mm

12-176 - 178
MANNERFELT modif.
Small curve, sharp
155 mm

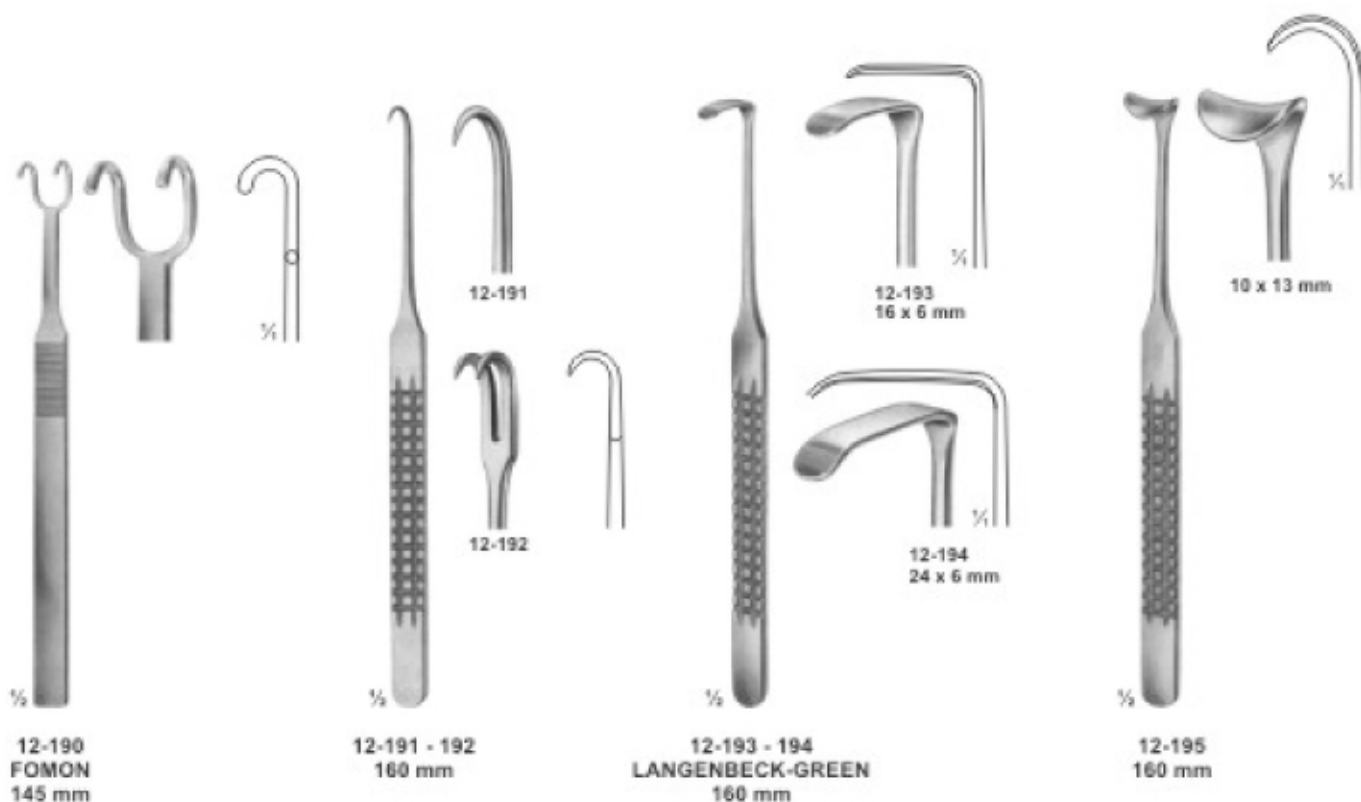
12-179 - 181
MANNERFELT modif.
Large curve, blunt
155 mm



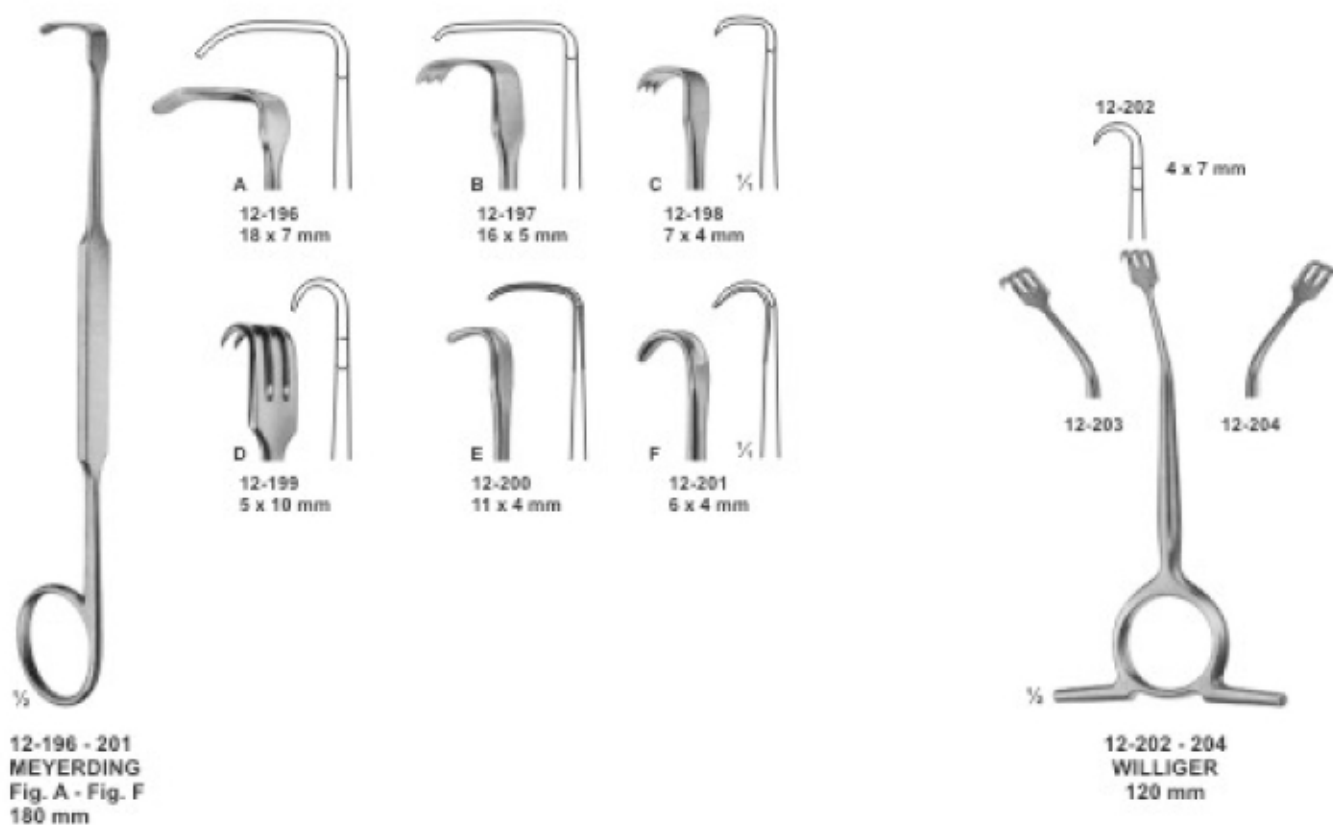
12-182 - 185
LANGENBECK-
MANNERFELT modif.
155 mm

12-186 - 188
MANNERFELT modif.
Saddle hooks,
155 mm

12-189
MANNERFELT modif.
Saddle hooks, fenestrated
155 mm



120





**12-205
EMMET
Fistula hook
220 mm**



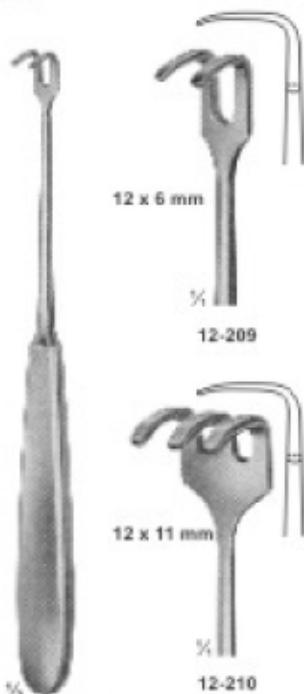
**12-206
SIMON
Fistula hook
220 mm**



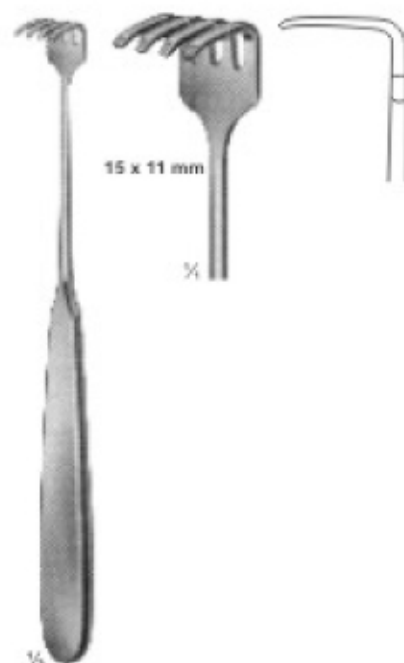
**12-207
SIMON
Fistula hook
220 mm**



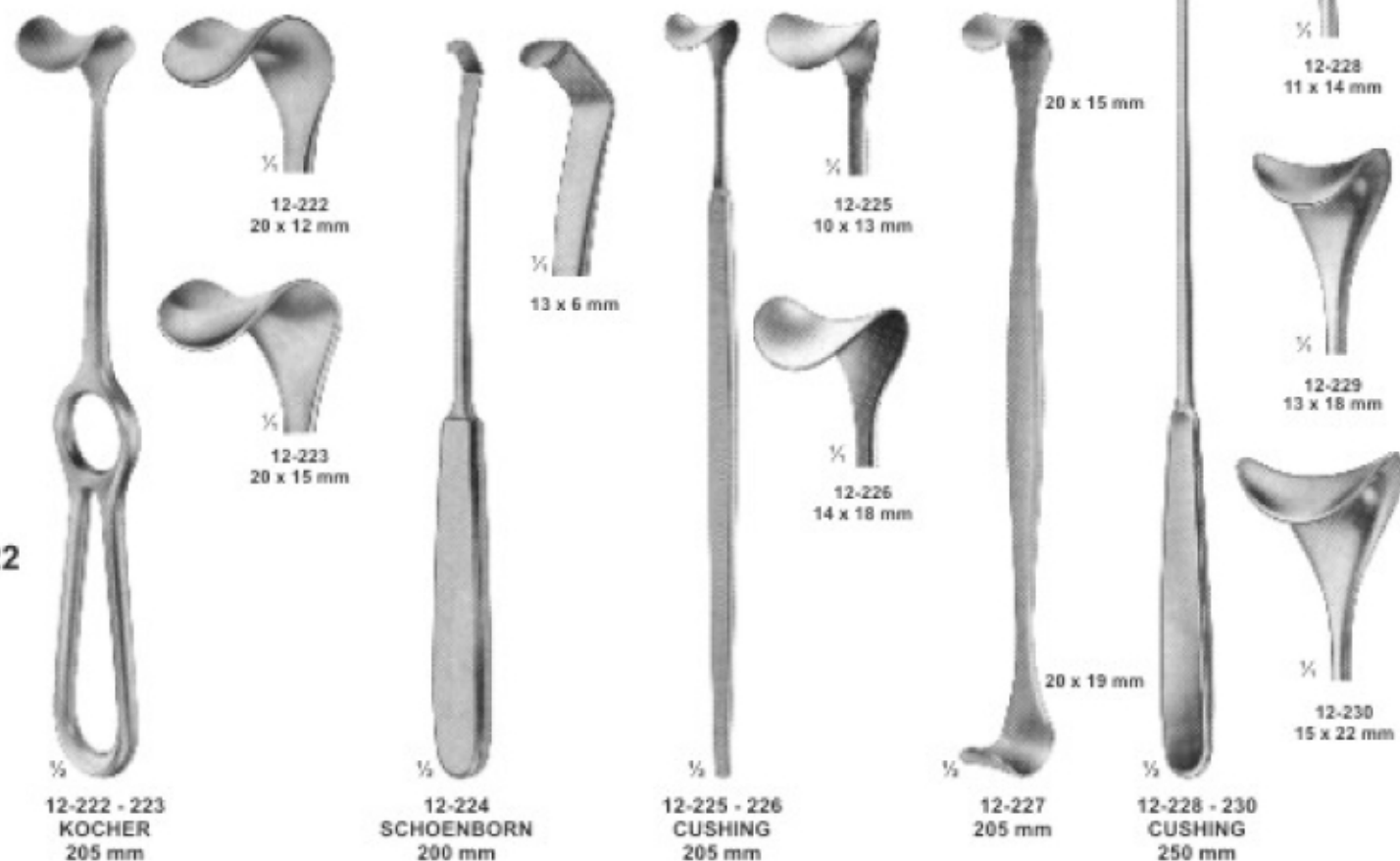
**12-208
LANGE
Fistula hook
230 mm**

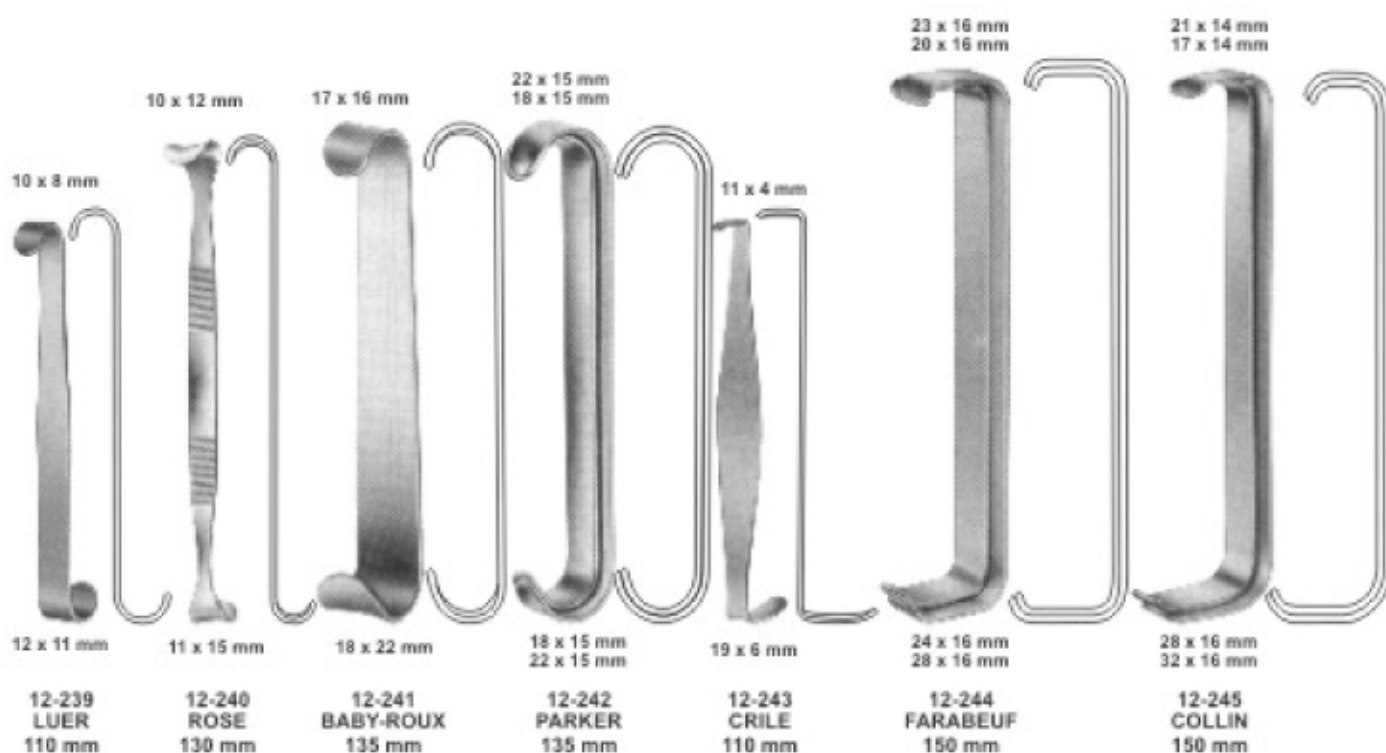
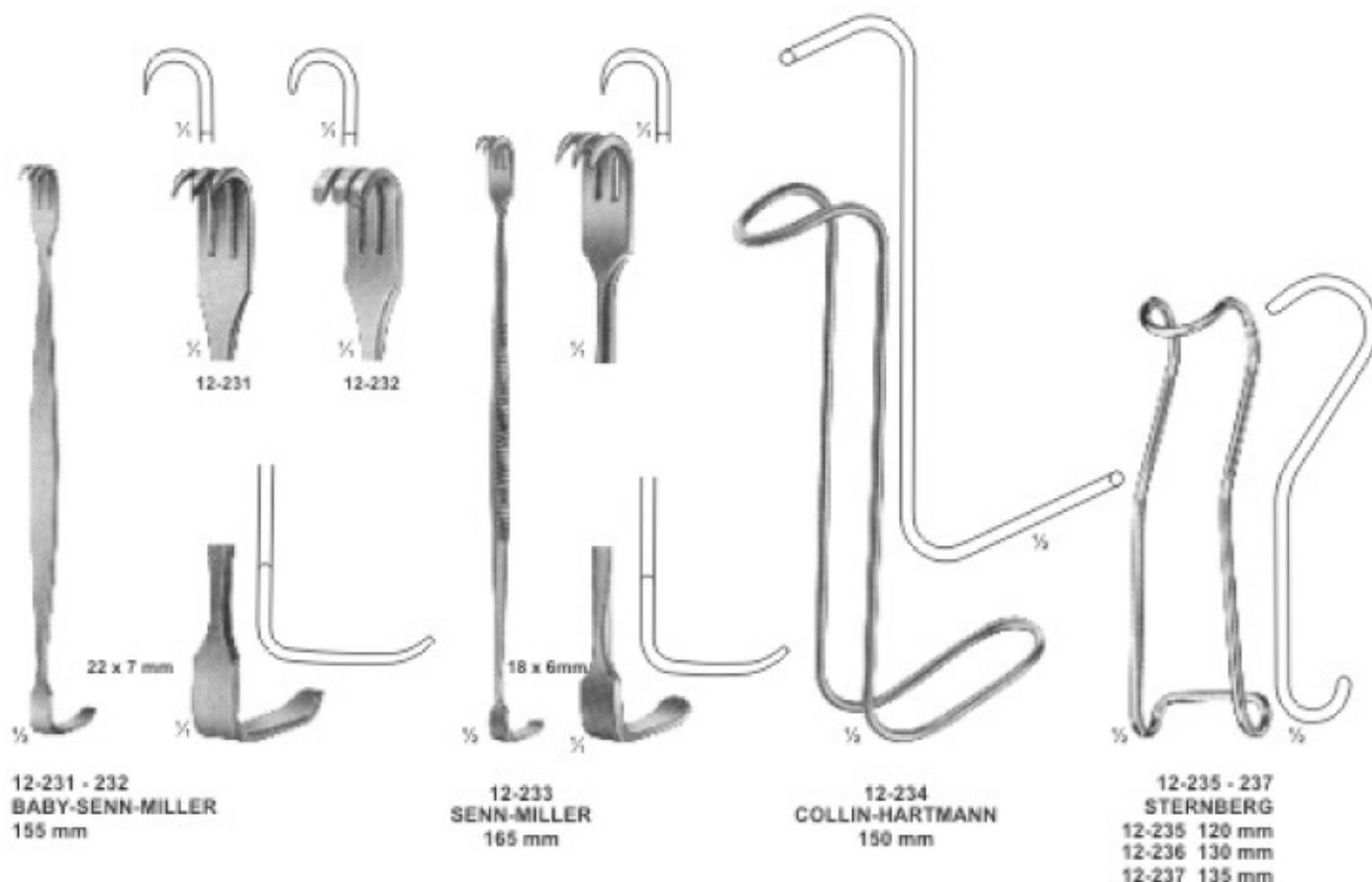


**12-209 - 210
Tendon hooks
175 mm**



**12-211
KLAPP
Tendon hooks
175 mm**









12-255
KOCHER
Sharp
205 mm



12-256
KOCHER
Sharp
220 mm



12-257
VOLKMANN
Sharp
220 mm



12-258
VOLKMANN
Blunt
220 mm



12-259
VOLKMANN
Sharp
220 mm



12-260 - 267
VOLKMANN
225 mm



12-260
9 x 8 mm

12-261
9 x 13 mm

12-262
9 x 19 mm

12-263
9 x 29 mm

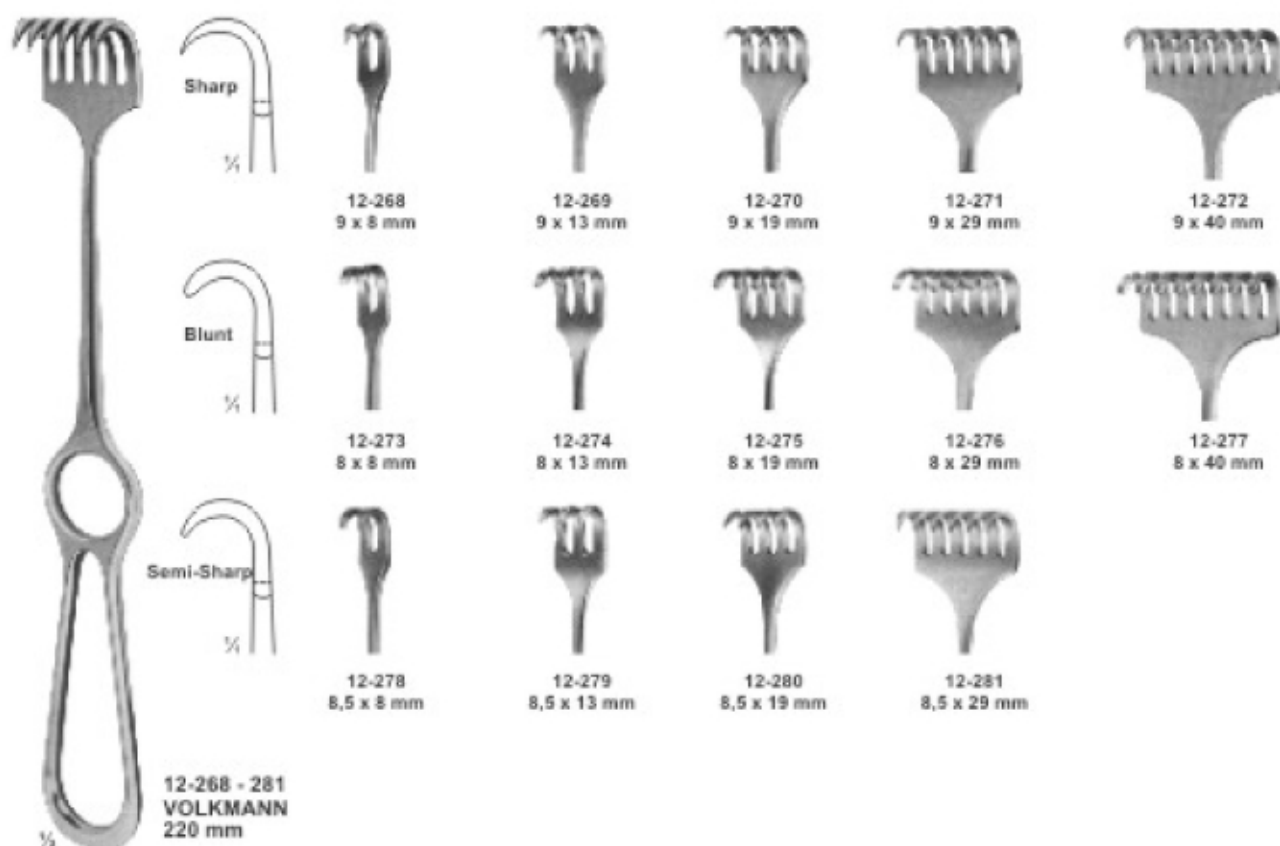


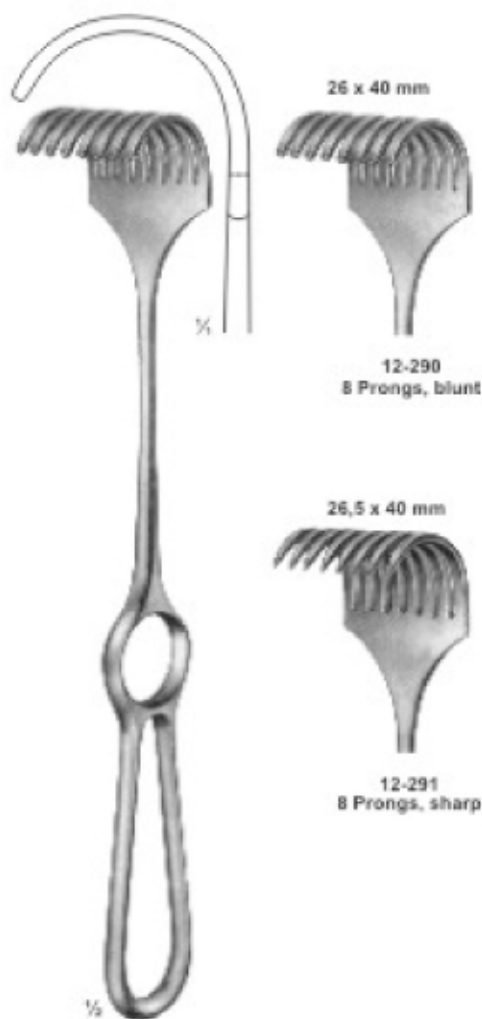
12-264
8,5 x 8 mm

12-265
8,5 x 13 mm

12-266
8,5 x 19 mm

12-267
8,5 x 29 mm

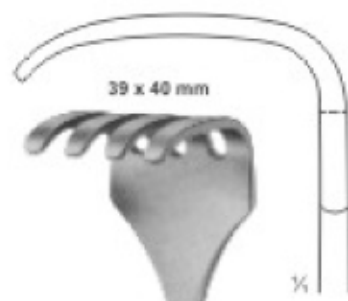




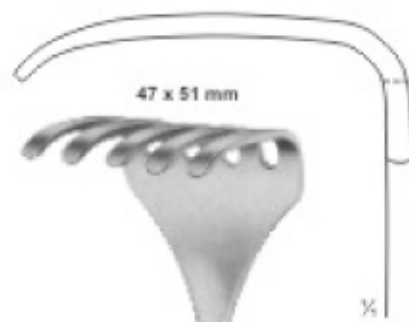
12-290 - 291
KOERTE
Handle vertical
to the blade.
240 mm



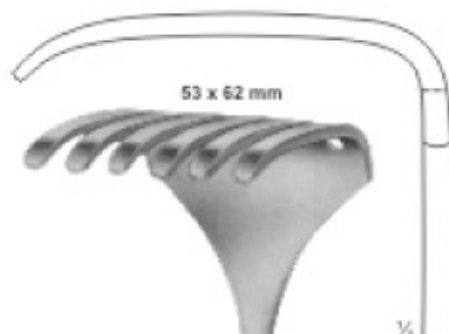
12-292 - 295
ISRAEL
255 mm



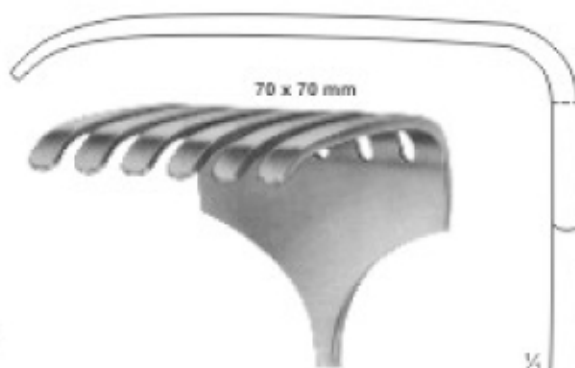
12-292
4 Prongs, blunt



12-293
5 Prongs, blunt



12-294
6 Prongs, blunt



12-295
6 Prongs, blunt

Retractors



12-296 - 301
LANGENBECK
 210 mm

12-296	28 x 10 mm
12-297	28 x 14 mm
12-298	33 x 14 mm
12-299	28 x 16 mm
12-300	40 x 10 mm
12-301	40 x 13 mm

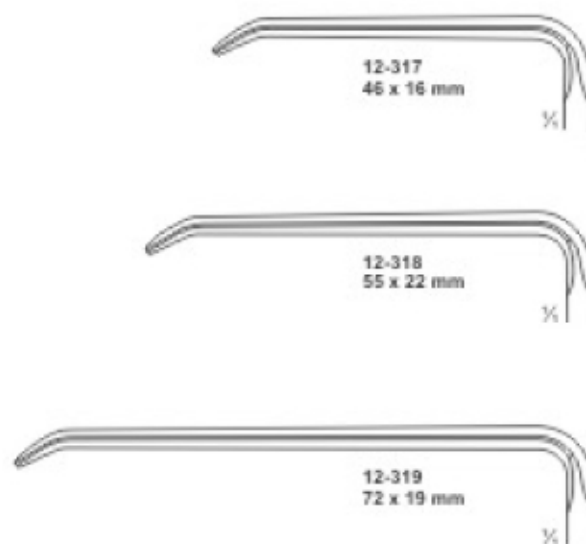
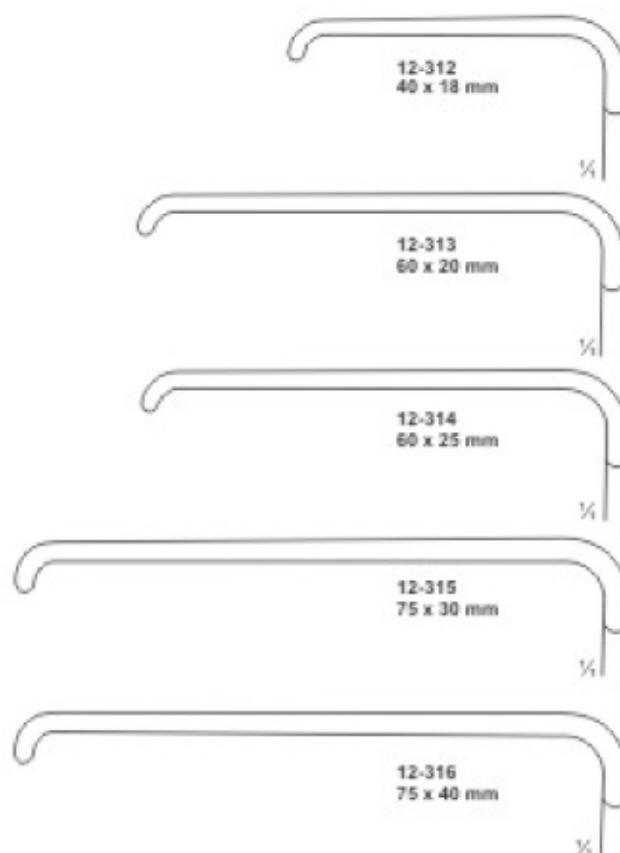


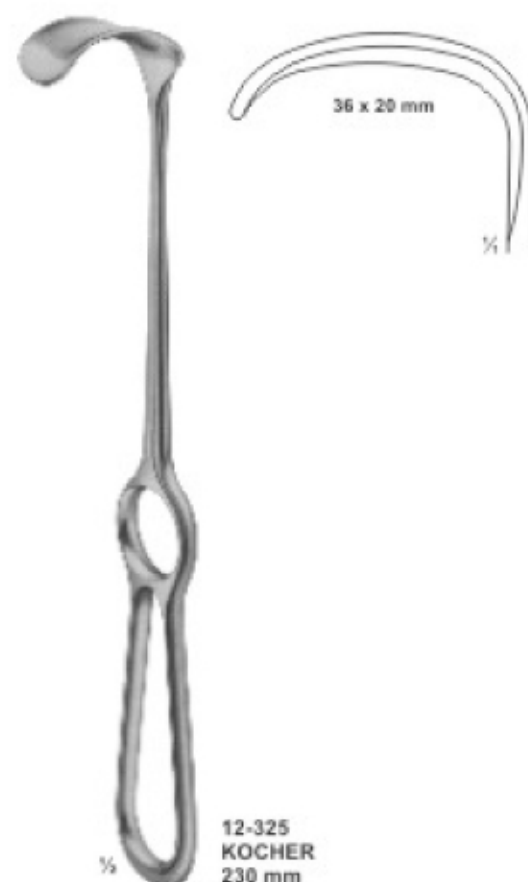
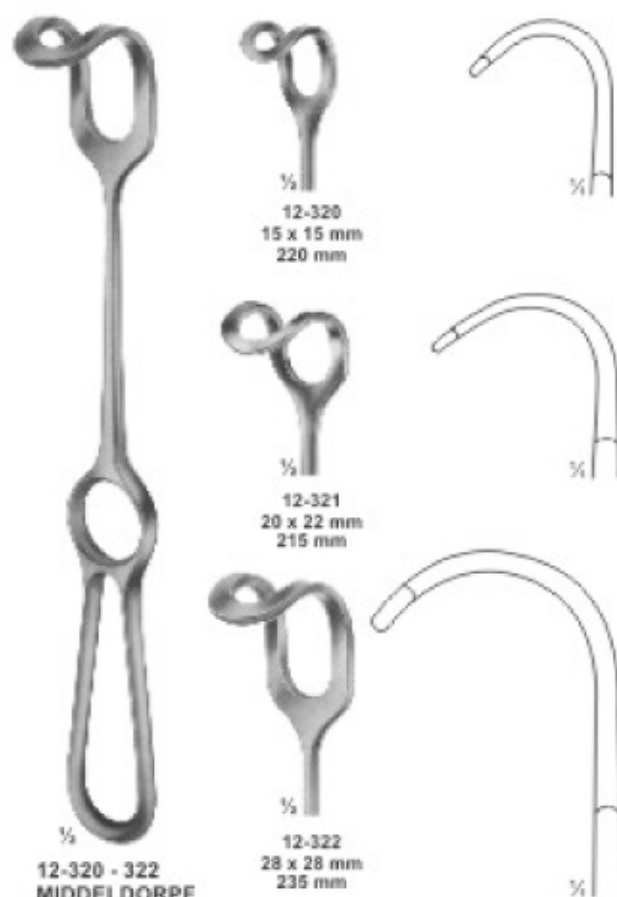
12-302 - 310
KOCHER-LANGENBECK
 215 mm

12-302	25 x 6 mm
12-303	35 x 8 mm
12-304	35 x 11 mm
12-305	35 x 15 mm
12-306	41 x 11 mm
12-307	55 x 11 mm
12-308	70 x 14 mm
12-309	80 x 12mm
12-310	80 x 16mm



12-311
LANGENBECK
 215 mm



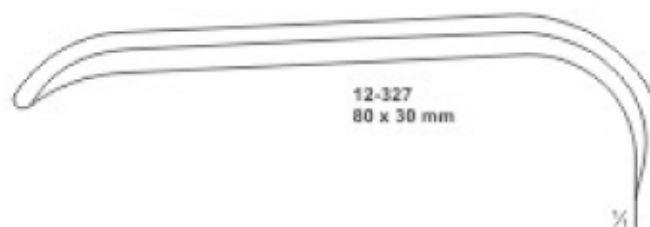




12-326 - 331
HOSEL
250 mm



12-326
60 x 20 mm



12-327
80 x 30 mm



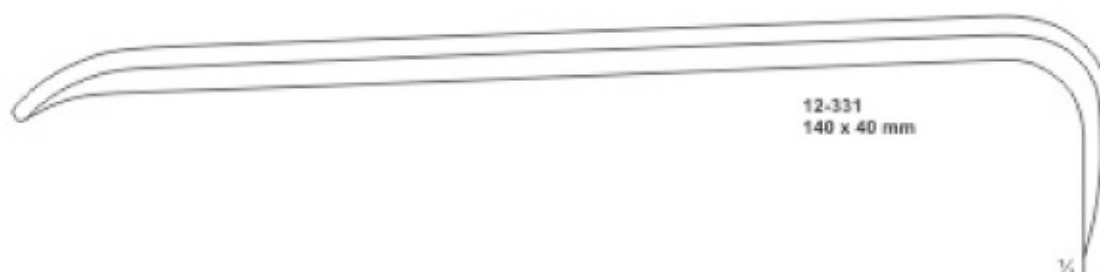
12-328
100 x 30 mm



12-329
120 x 30 mm

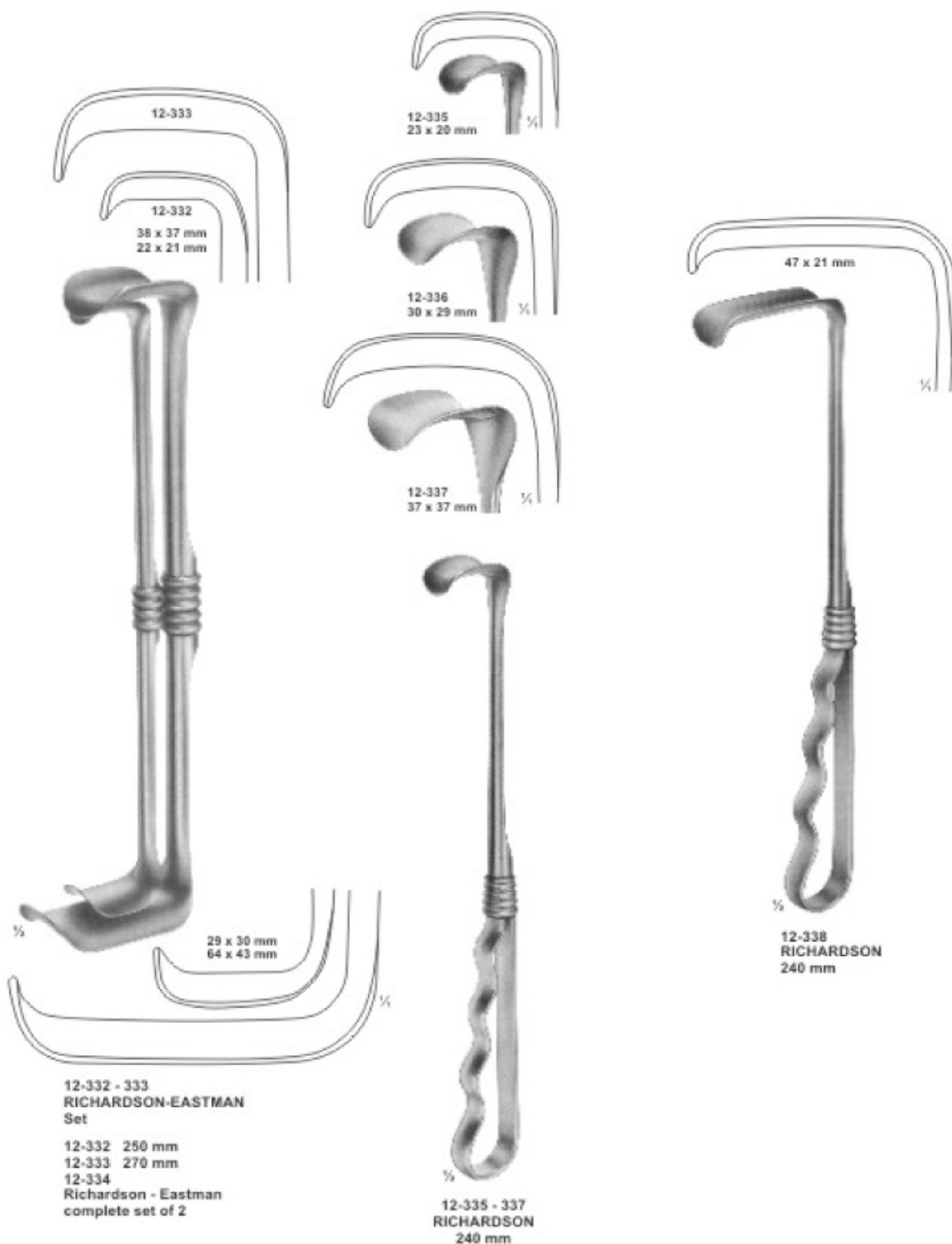


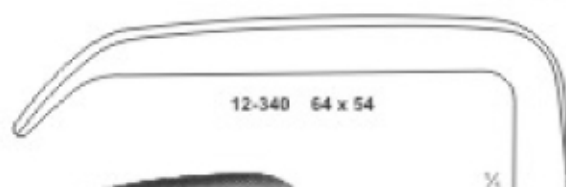
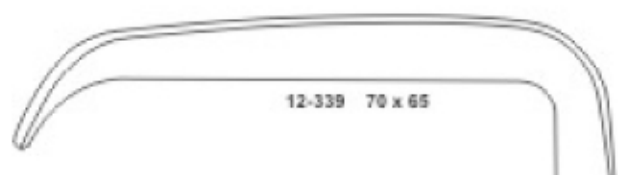
12-330
140 x 30 mm



12-331
140 x 40 mm

132





12-339 - 340
KELLY
260 mm

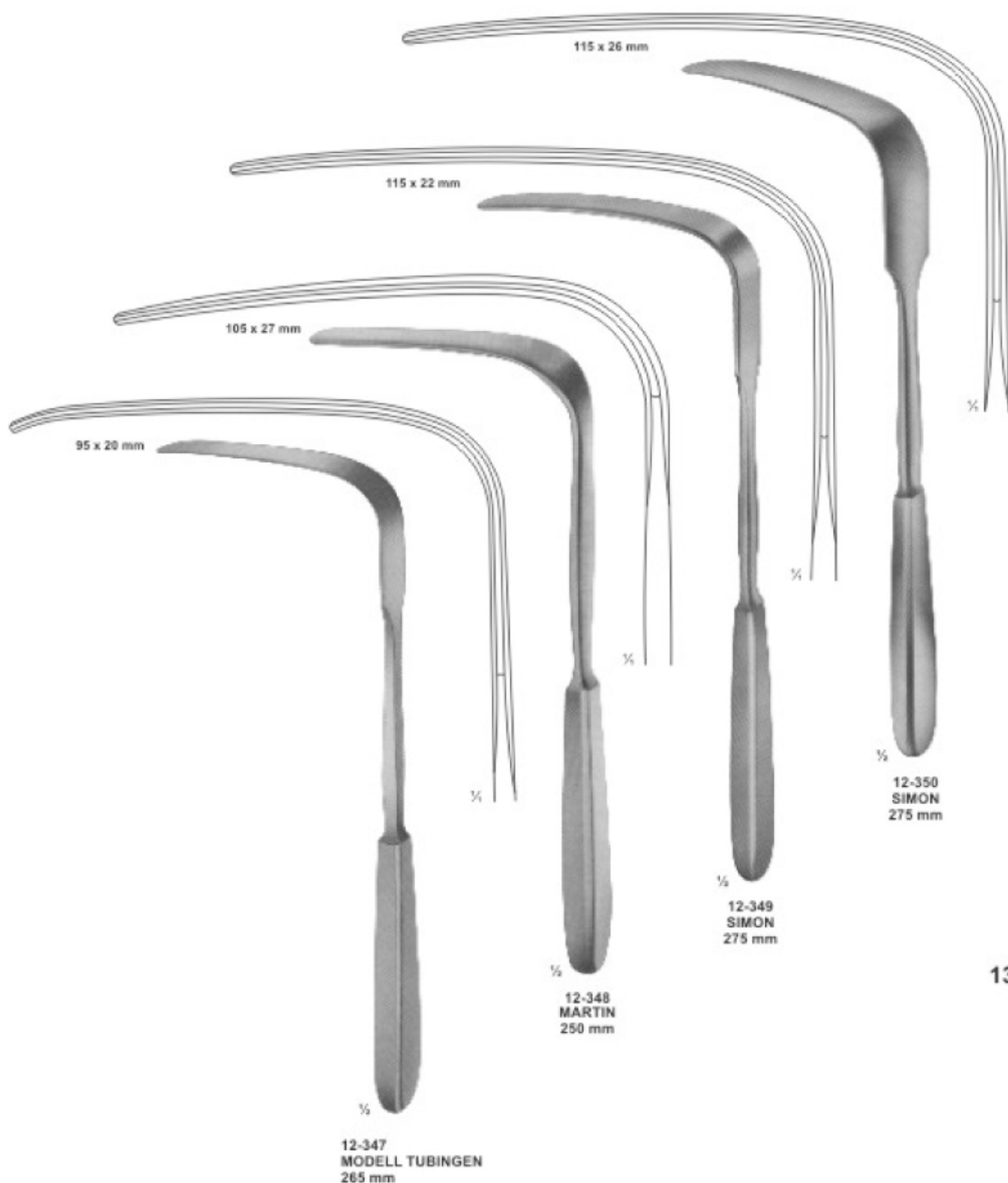


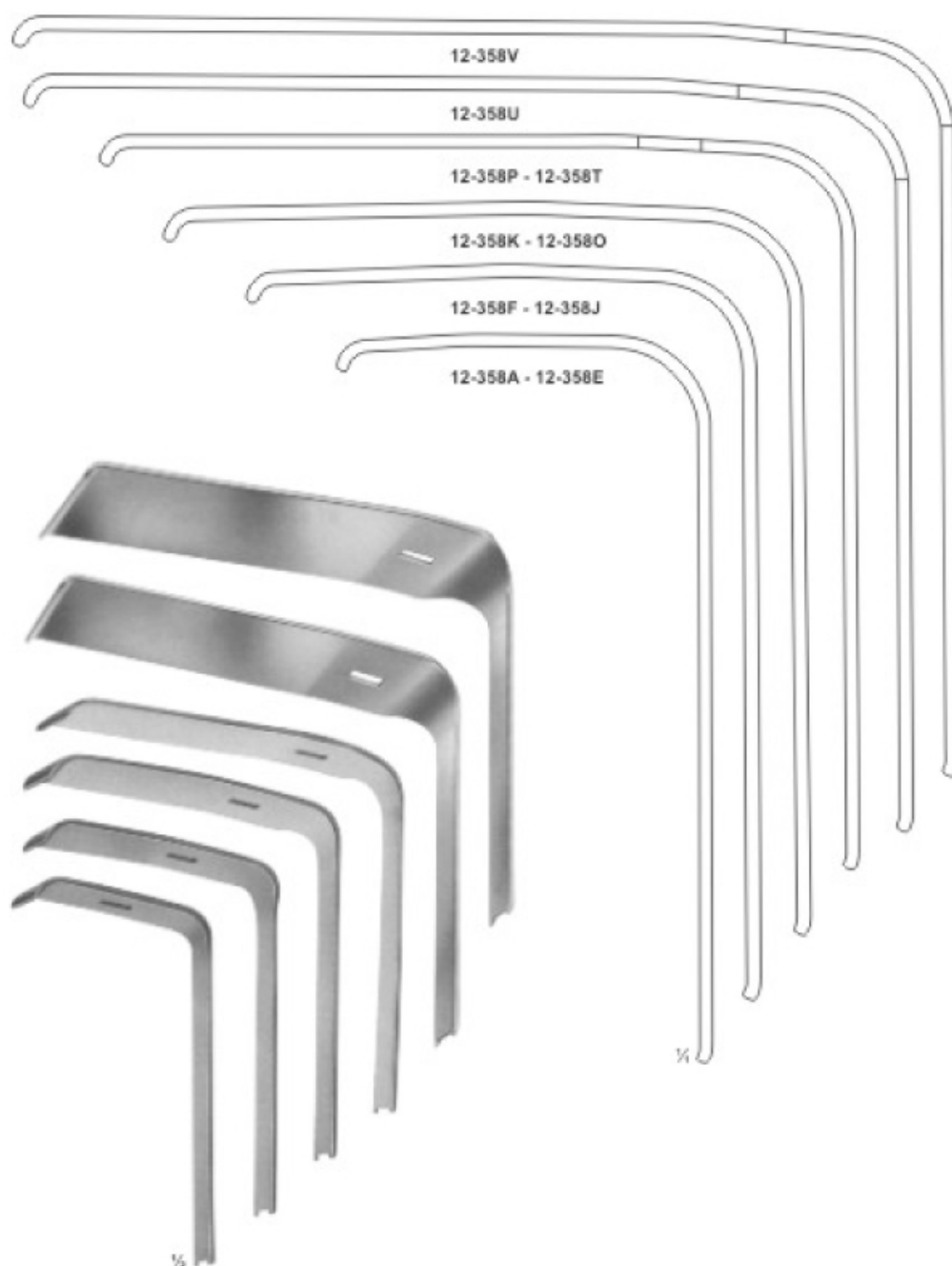
12-342 70 x 50
12-343 70 x 65



12-341 - 343
MORRIS
245 mm







12-358
Retractor blades for handles

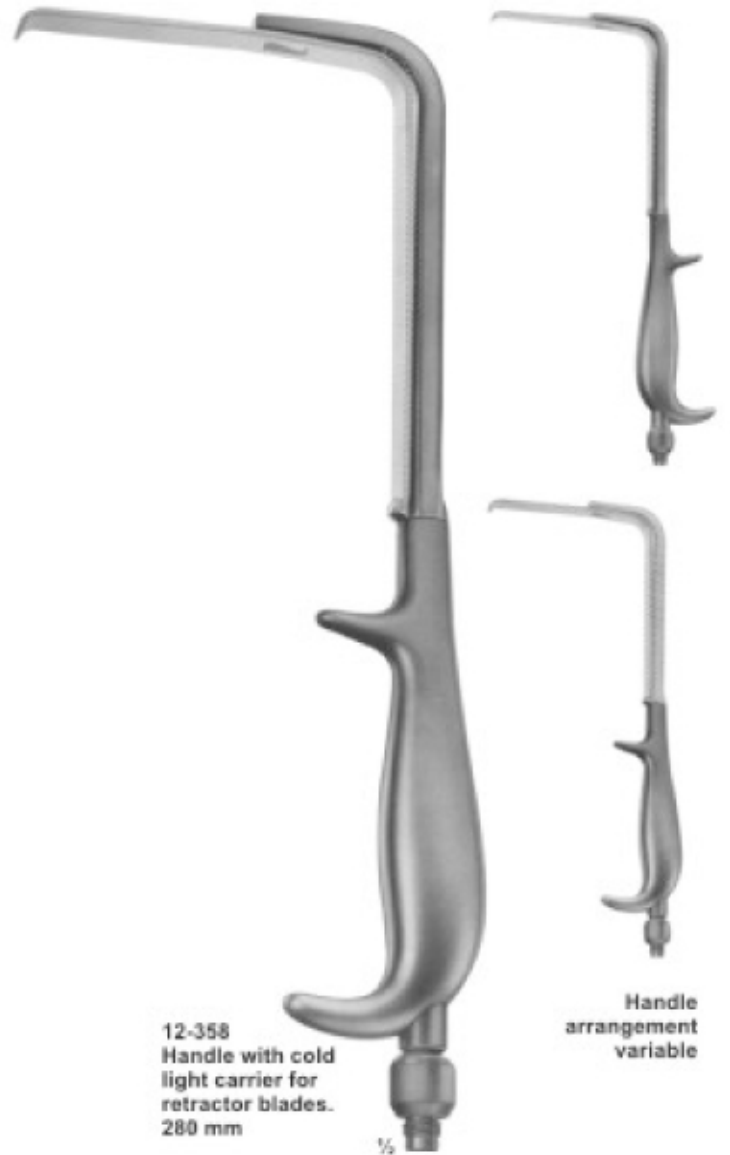
Depth	Width						
	14mm	18mm	22mm	26mm	30mm	40mm	50mm
55mm	12-358A	12-358B	12-358C	12-358D	12-358E	-	-
75mm	12-358F	12-358G	12-358H	12-358I	12-358J	-	-
95mm	12-358K	12-358L	12-358M	12-358N	12-358O	-	-
115mm	12-358P	12-358Q	12-358R	12-358S	12-358T	-	-
135mm	-	-	-	-	-	12-358U	-
145mm	-	-	-	-	-	-	12-358V

Retractors, Vario Retractor System, Germ. Fed.
Patent, Germ. Fed. Regd.Des, US-Patent.

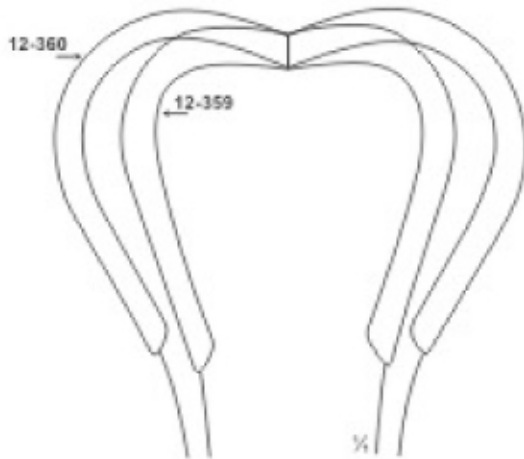


12-351 - 357
BRUNNER
275 mm

12-351	80 x 20
12-352	100 x 25
12-353	120 x 25
12-354	130 x 30
12-355	140 x 30
12-356	160 x 30
12-357	180 x 30



Retractors, Lung Spatulas



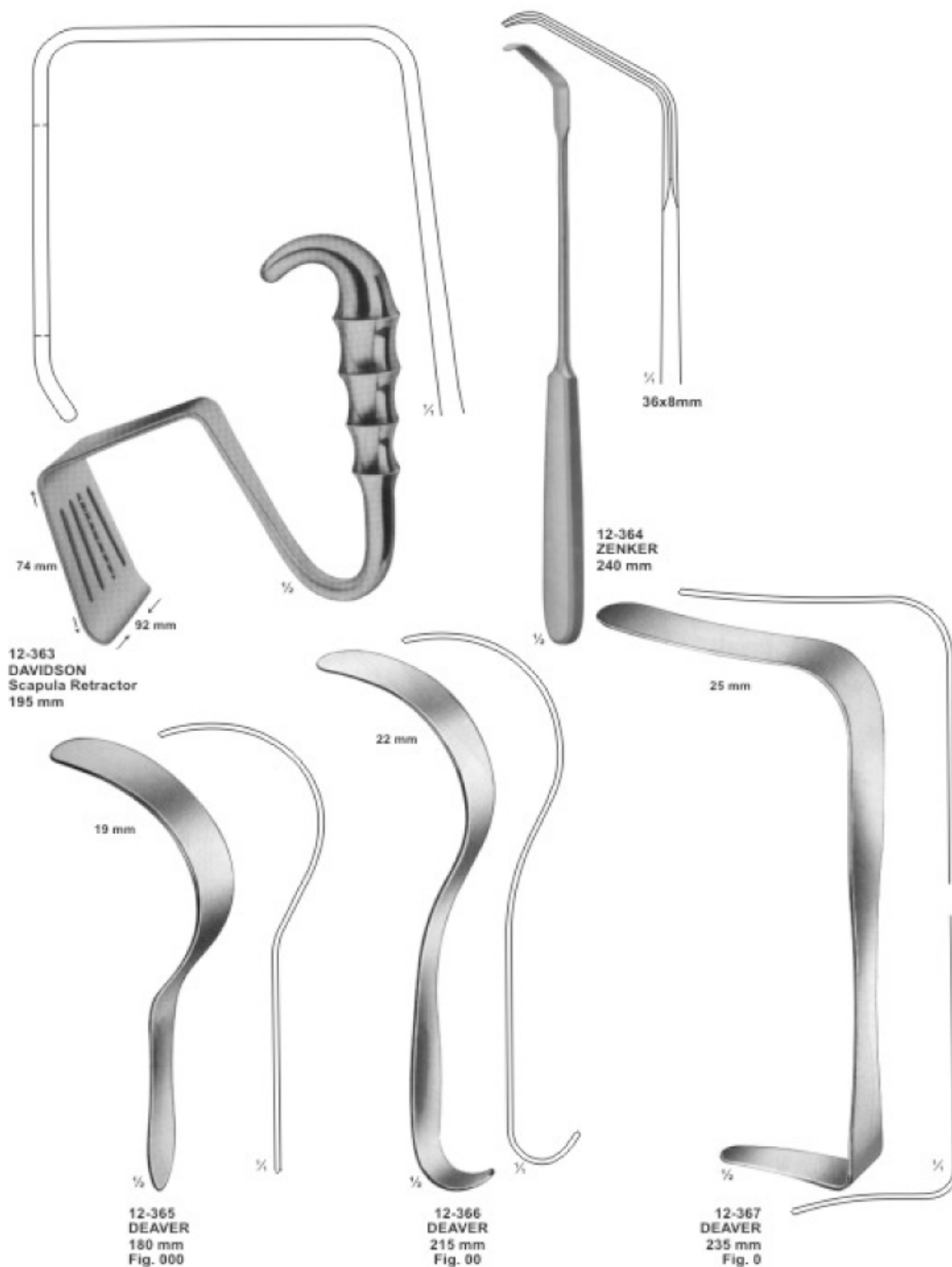
12-359 - 360
HARRINGTON
12-359 123 x 45 mm
12-360 123 x 64 mm
Flexible
295 mm



12-361
ALLISON
255 mm



12-362
ALLISON
320 mm







12-371
DEAVER
300 mm
Fig. 3

12-372
DEAVER
310 mm
Fig. 4

12-373
DEAVER
320 mm
Fig. 5



12-374
DEAVER
310 mm
Fig. 1



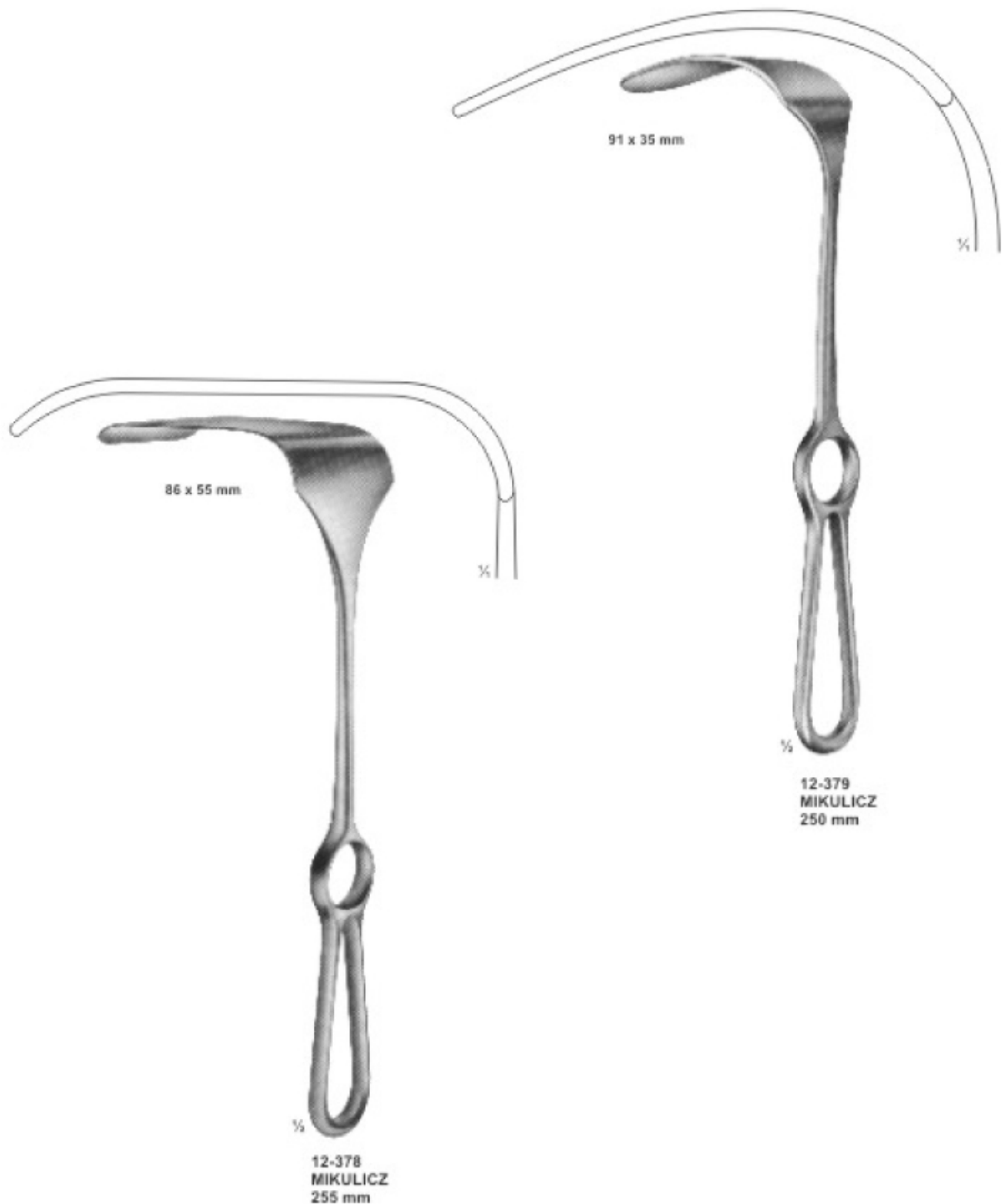
12-375
DEAVER
310 mm
Fig. 3

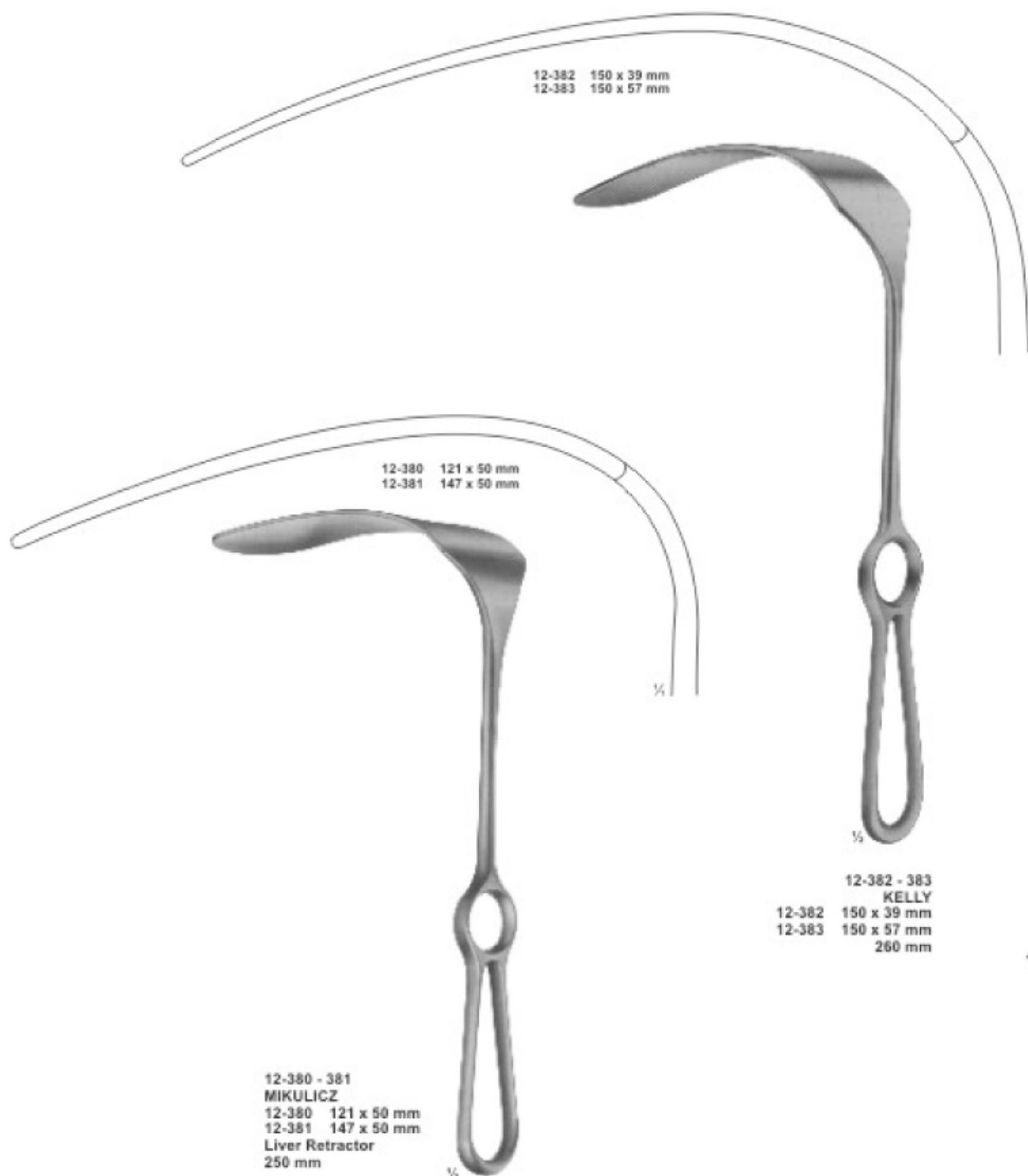


12-376
DEAVER
305 mm
Fig. 4



12-377
DEAVER
310 mm
Fig. 5

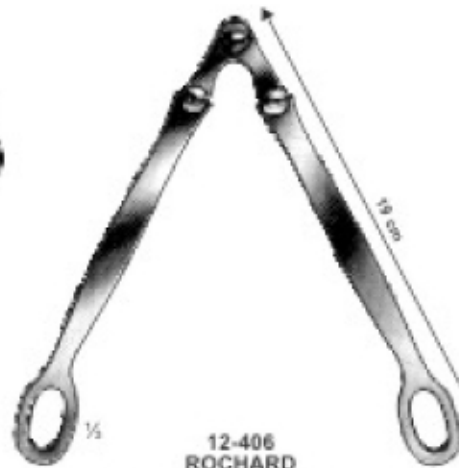




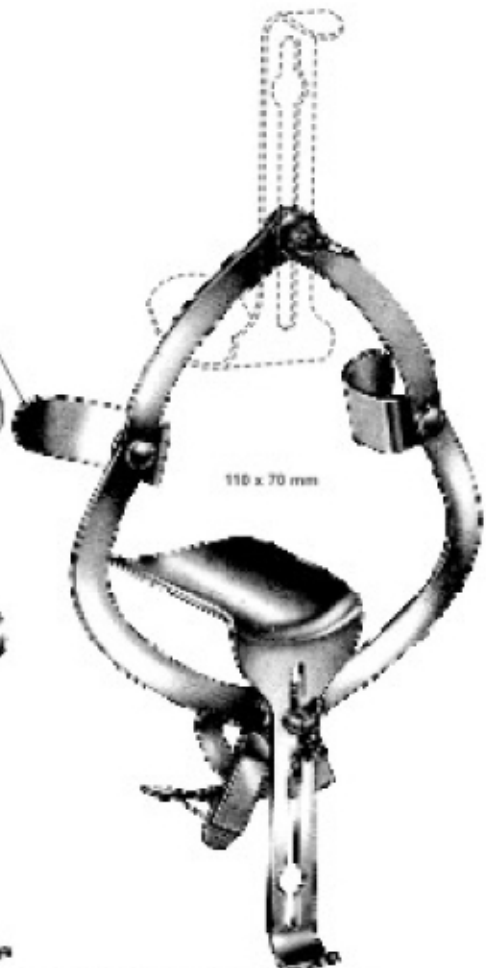


Length of Blades	Width of Blades		
	35mm	45mm	60mm
62mm	12.384	12.387	12.391
92mm	12.385	12.388	12.392
122mm	12.386	12.389	12.393
160mm		12.390	12.394

12-401-405
ROCHARD
310 mm
12-401 48 x 90 mm
12-402 48 x 105 mm
12-403 48 x 120 mm
12-404 48 x 135 mm
12-405 48 x 155 mm



12-406
ROCHARD
Fixation device for 12-401-405



O' Sullivan-O' Connor

12-401A
Adult
12-401B
Baby



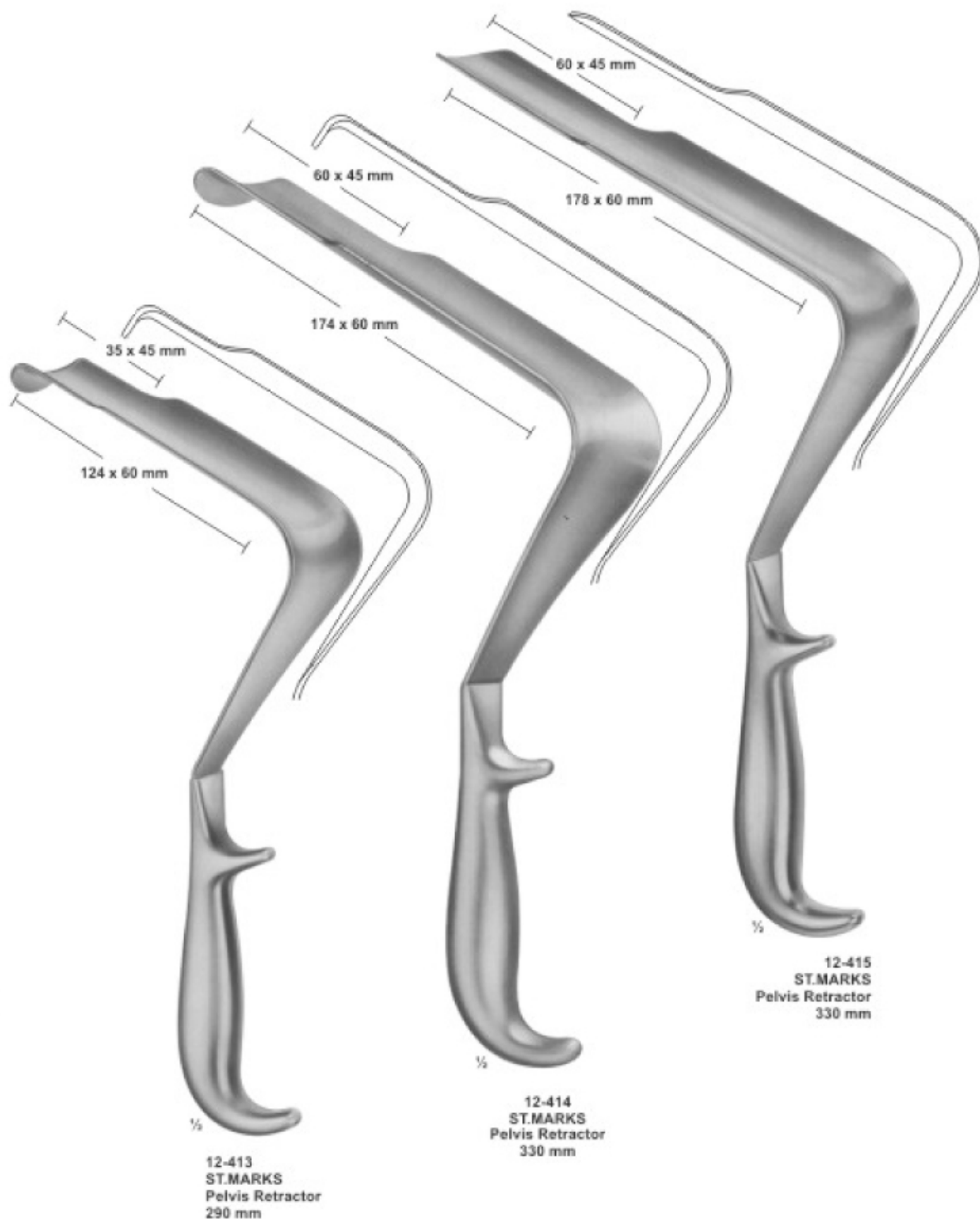
12-407 - 410
DOYEN
280 mm
12-407 48 x 90 mm
12-408 48 x 105 mm
12-409 48 x 120 mm
12-410 48 x 135 mm

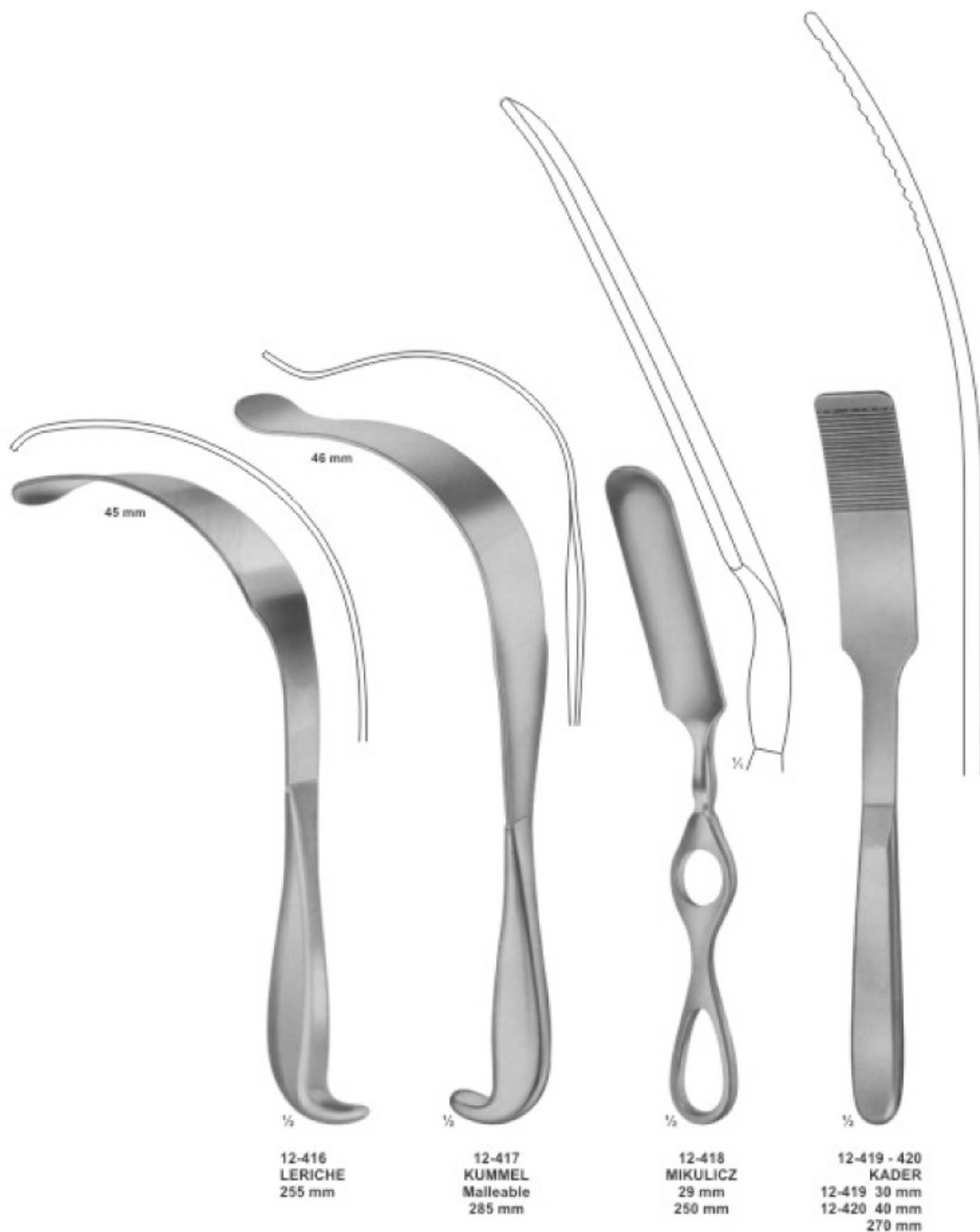


12-411
DOYEN-CHILD
Fixation device
220 mm



12-412
Chain (12-412A)
with weight (12-412B)
645g
790 mm





Oral Instruments Cheek & Nasal Retractors, Alar Hooklet



Mayo
12-421S
17 cm



Converse
12-421C
10.5 cm
44 x 11 mm blade

Cawood Minnesota
12-421M
15 cm
20 mm



12-421MM
14.5 cm
Fenestrated



Doyen
12-426S
13 cm
24/20 mm
12-426SS
16 cm
30/24 mm



Tobold
12-426T
12 cm



45 mm
12-421
REVERDIN
285 mm



50 mm
12-422
HABERER
Malleable
305 mm



12-423 - 425
12-423 30 mm
12-424 40 mm
12-425 50 mm
Malleable
330 mm



25 mm
12-426
TUFFIER
Malleable
200 mm



12-427
BOSE
60 mm



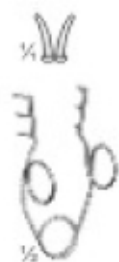
12-428
FINSEN
50 mm



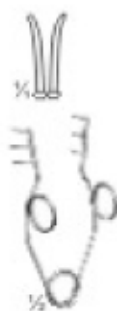
12-429
FINSEN
70 mm



12-430
FINSEN modif.
75 mm



12-431
45 mm



12-432
55 mm



12-433
MUELLER
65 mm



12-434
100 mm



12-435



12-436



12-435 - 436

12-435 70 mm
12-436 100 mm



12-437
LOGAN
modif. REILL
50 mm



12-438
JANSEN
100 mm



12-439
JANSEN
100 mm



12-440
BARRAQUER
45 mm



12-441
WEITLANER
Sharp
110 mm



12-442
WEITLANER
Semi-Sharp
110 mm



12-443
WEITLANER
Blunt
110 mm



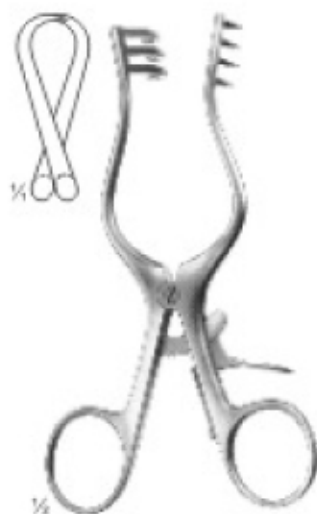
12-444
WEITLANER
Sharp
130 mm



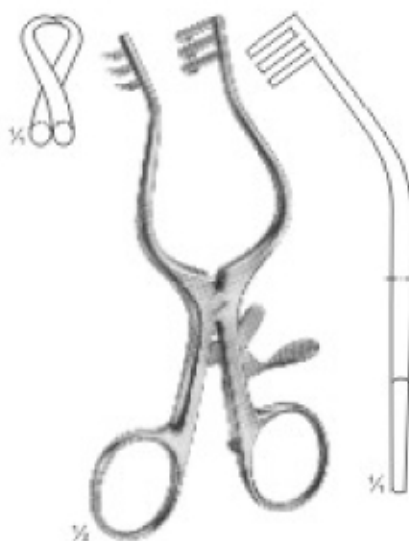
12-445
WEITLANER
Semi-Sharp
130 mm



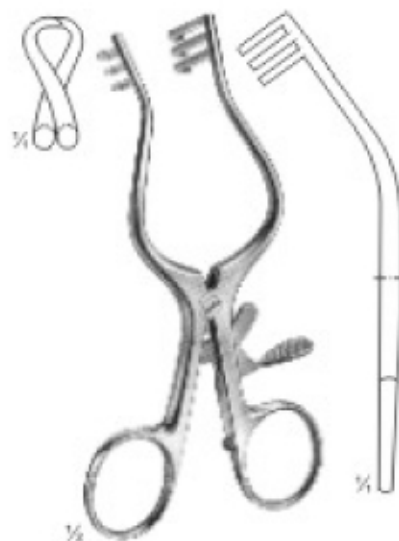
12-446
WEITLANER
Blunt
130 mm



**12-447
WEITLANER
Sharp
130 mm**



**12-448
WULLSTEIN
Sharp
130 mm**



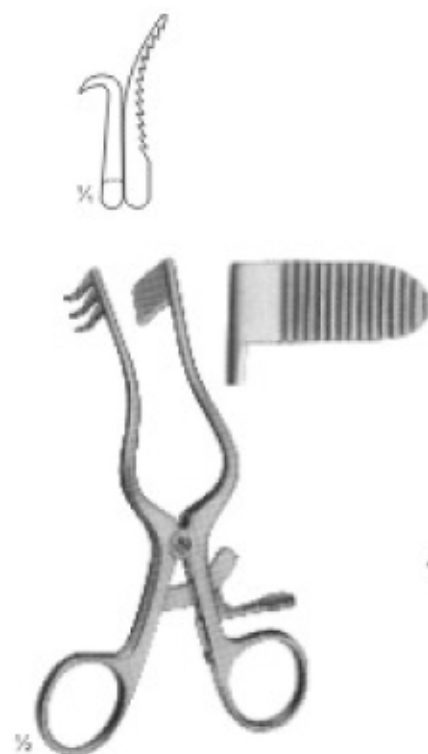
**12-449
WULLSTEIN
Blunt
130 mm**



**12-450
WEITLANER
Sharp
165 mm**



**12-451
PLESTER
Blunt
110 mm**

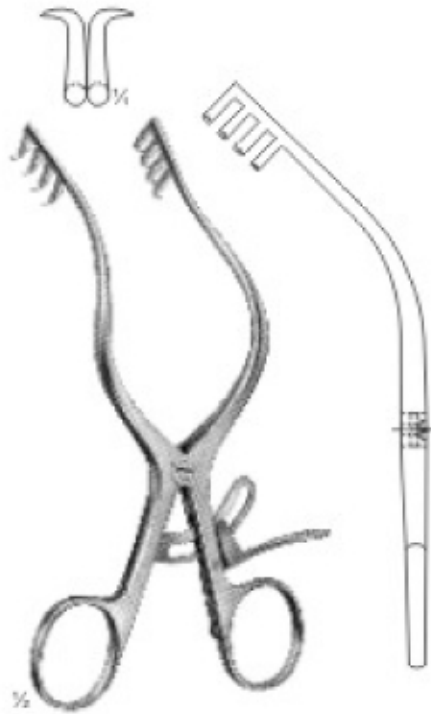


**12-452
PERKINS
130 mm**

Self-Retaining Retractors



12-453
ADSON-BABY
Blunt
140 mm



12-454
MOLLISON
Sharp
155 mm



12-455
MAYO-ADAMS
165 mm



MEYERDING
12-455A 25 x 60 mm blade
12-455B 25 x 55 mm blade
12-455C 25 x 35 mm blade
12-455D 22 x 60 mm blade



DARLING
12-455E
18 cm
(Poplitea)



DARLING
12-455F
18 cm
(Poplitea)



12-456
ANDERSON-ADSON
Sharp
190 mm



12-457
NORFOLK and
NORWICH
Blunt
220 mm



12-458
ADSON
Sharp
265 mm



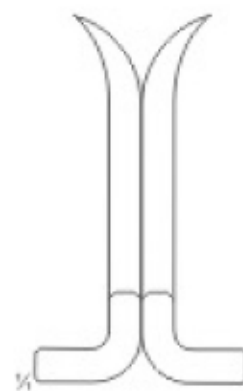
Sharp



Semi-Sharp



Semi-Sharp



Sharp



12-459
BECKMANN-ADSON
Sharp
310 mm



12-460
BECKMANN-ADSON
Semi-Sharp
310 mm



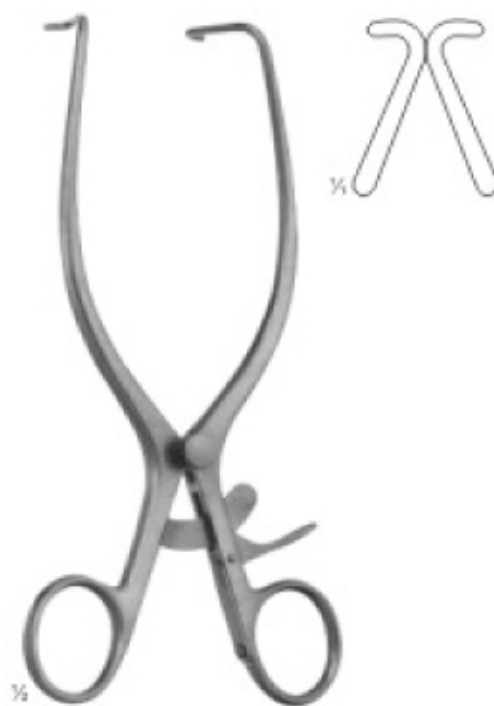
12-461
ADSON
Semi-Sharp
320 mm



12-462
BECKMANN-EATON
Sharp
320 mm



12-463
JOLL (FRIEDMAN)
Thyroid- and Vaginal Retractor
155 mm



12-464
JACKSON BURROWS
Retractor, blunt
185 mm



12-465
GELPI
Vaginal Retractor
135 mm



12-466
GELPI
Skin- and Vaginal Retractor
175 mm



12-467
DE BAKEY
Femur Retractor
145 mm



Scoville
12-469A
50 mm deep
Blunt



Scoville
12-469B
70 mm deep
Blunt



Scoville
12-469C
50 mm deep
Sharp



Scoville
12-469D
70 mm deep
Sharp



Scoville
12-469E 60 x 25 mm
12-469F 64 x 50 mm
12-469G 88 x 25 mm
Toothed



12-469
62 x 52 mm
PR= Pair
62 x 37 mm



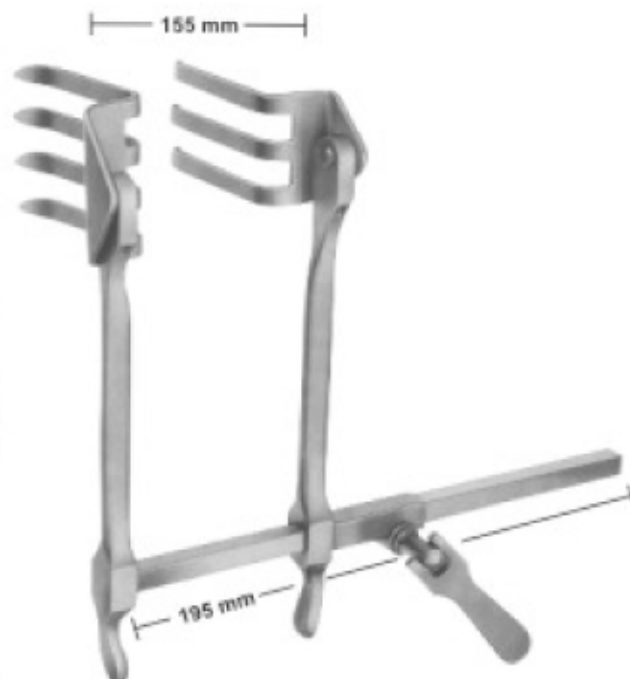
12-470
47 x 51 mm



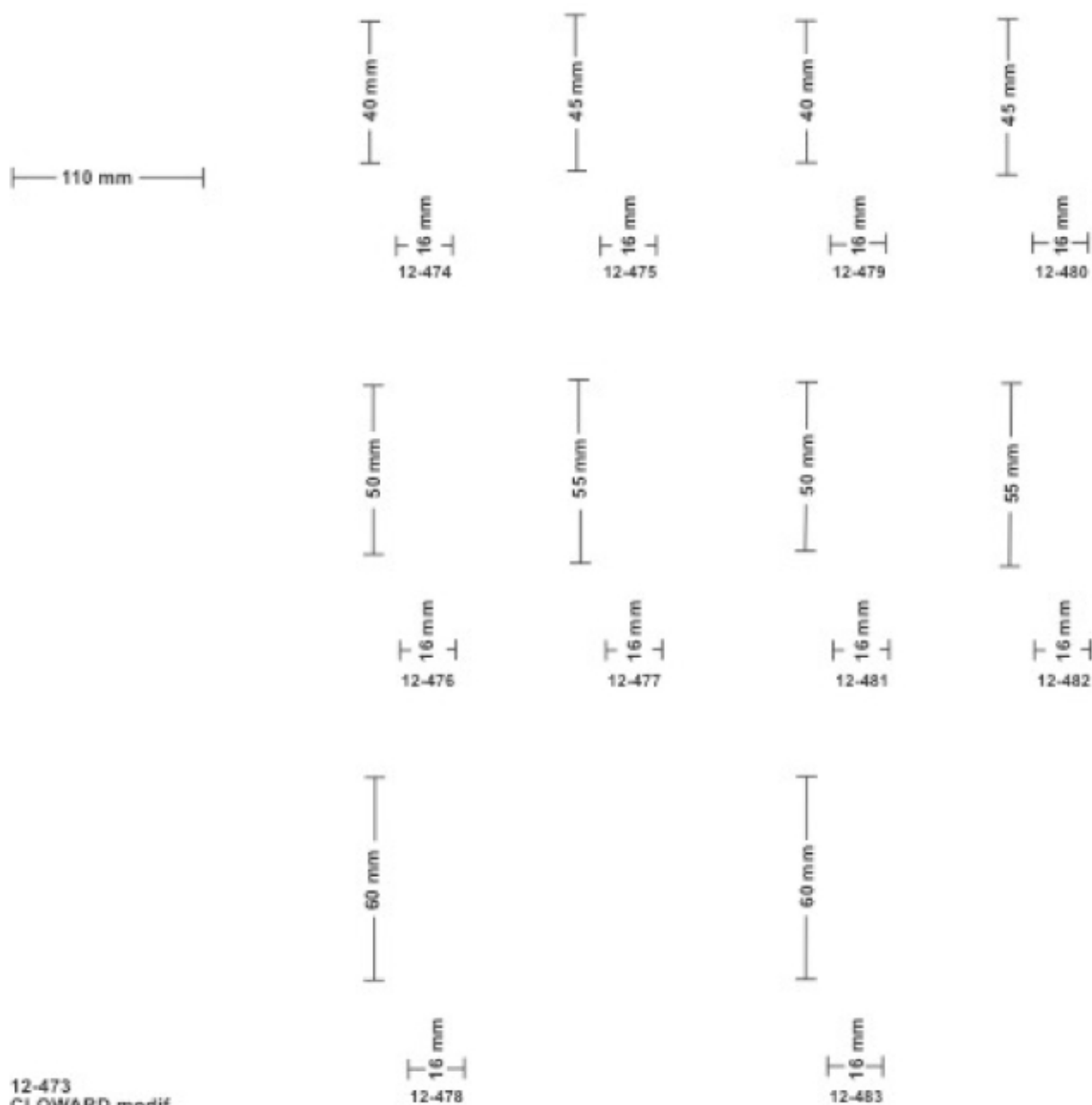
12-471
30 x 40 mm

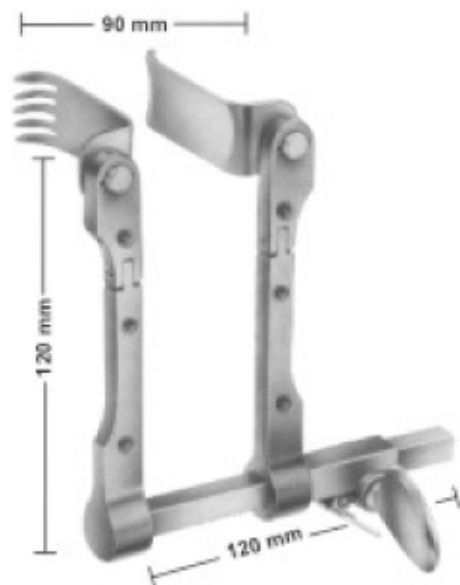


12-472
37 x 62 mm



12-468
SCOVILLE-RICHTER
Retractor (12-468A) with 1 pair
blades (12-469) reversible type.
The Retractor bar and shanks
may be easily rotated 180° when
blades are in situ.





**12-484
CASPAR**
Retractor, adjustable, consisting of:
5 medial blades (12-485-489) 5 Lateral
blades. (12-490-494) and the retractor
only (12-484B) By Reversing the Screw,
The Retractor Can be Used From Both Sides



**12-484 A
CASPAR**
Counter retractor, adjustable,
consisting of: 5 blades. (12-495-499)
and the retractor only (12-484C)

To be used preferably for transverse retraction.



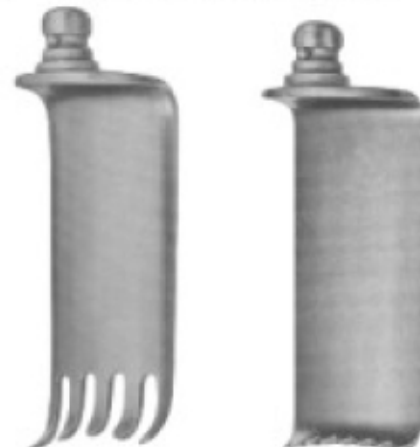
12-485 40 x 23 mm
12-486 45 x 23 mm
12-487 50 x 23 mm
12-488 55 x 23 mm
12-489 60 x 23 mm
Medial blades

12-490 40 x 23 mm
12-491 45 x 23 mm
12-492 50 x 23 mm
12-493 55 x 23 mm
12-494 60 x 23 mm
Lateral blades

12-495 45 x 23 mm
12-496 50 x 23 mm
12-497 55 x 23 mm
12-498 60 x 23 mm
12-499 65 x 23 mm
Blunt blades

12-500 50 x 25 mm
12-501 60 x 25 mm
Blunt blades,
for harvesting of the
fusion graft from the
iliac crest

To be used preferably for up and down retraction.



12-502 40 x 25 mm
12-503 45 x 25 mm
12-504 50 x 25 mm
12-505 55 x 25 mm
12-506 60 x 25 mm
Medial Titan blades
semi transparent to x-ray

12-507 40 x 25 mm
12-508 45 x 25 mm
12-509 50 x 25 mm
12-510 55 x 25 mm
12-511 60 x 25 mm
Lateral Titan blades
semi transparent to x-ray

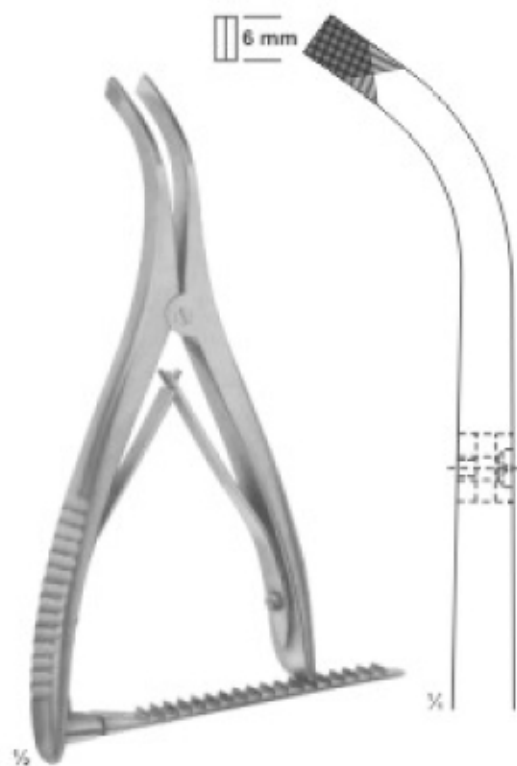
Blades only, to be used with 12-484B and 12-484C



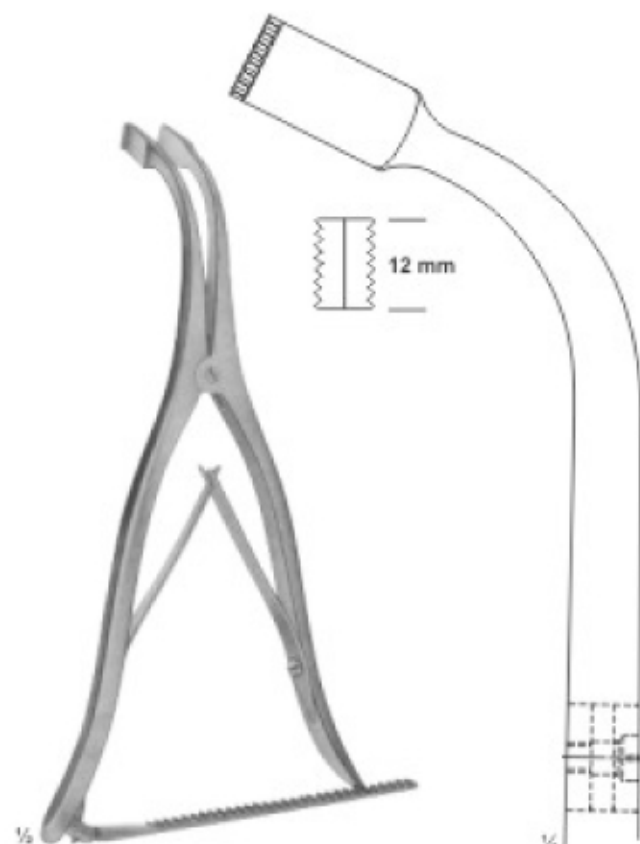
12-512
CLOWARD
155 mm



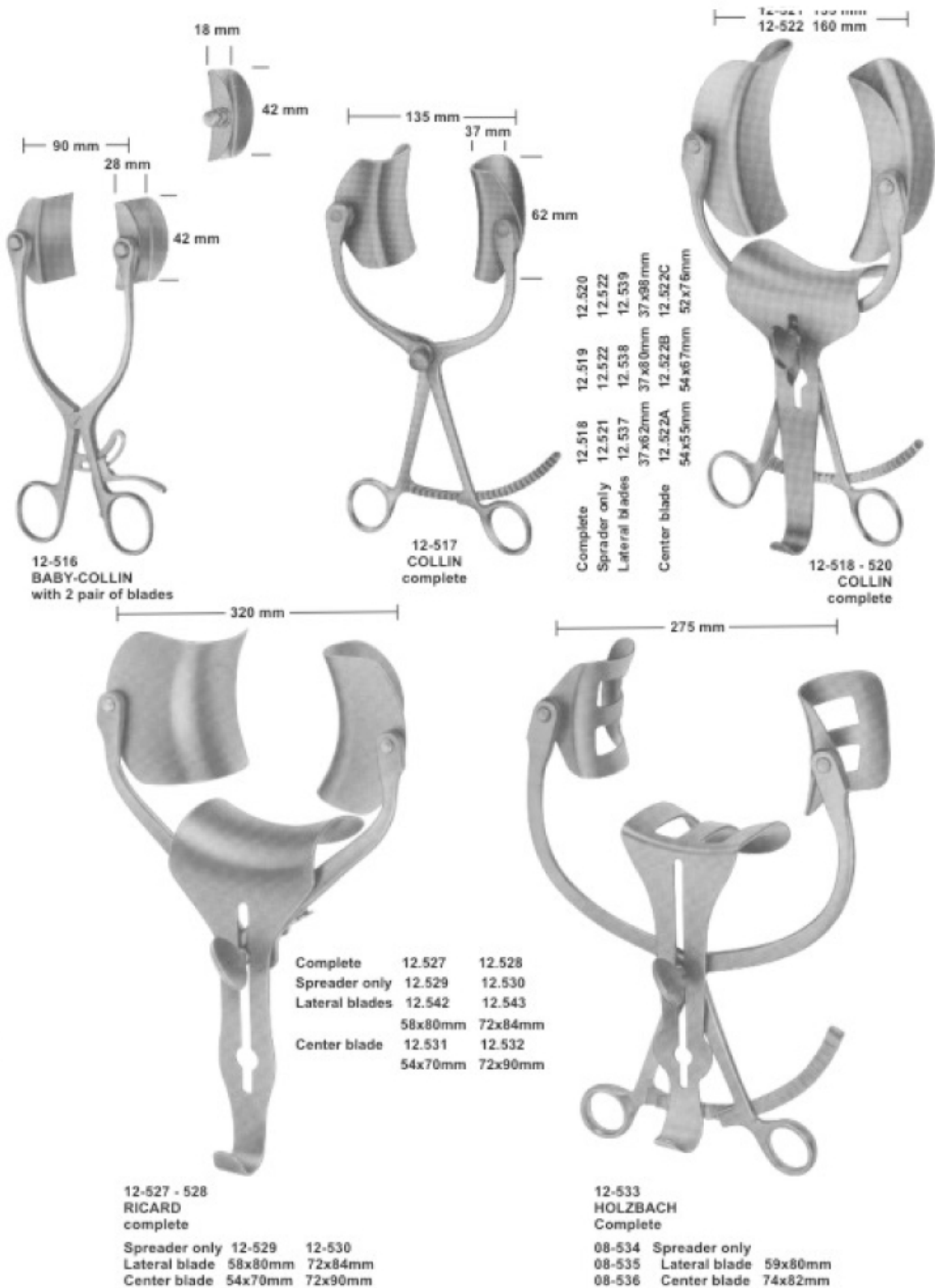
12-513
CLOWARD
135 mm



12-514
INGE
170 mm



12-515
INGE
275 mm

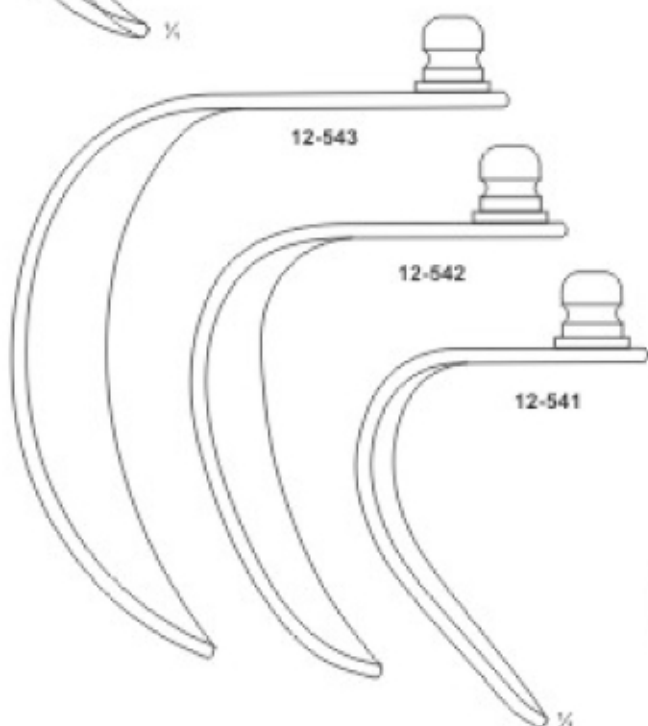




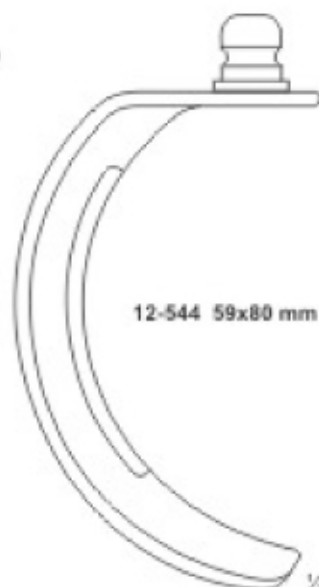
Lateral blades only
12-537 37x62 mm
12-538 37x80 mm
12-539 37x98 mm

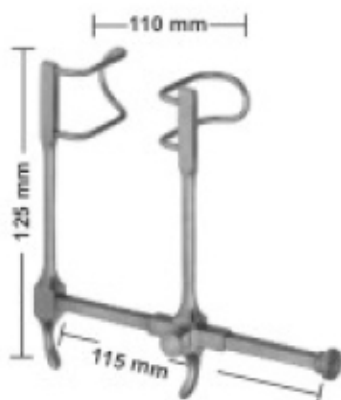


12-540 61x80 mm

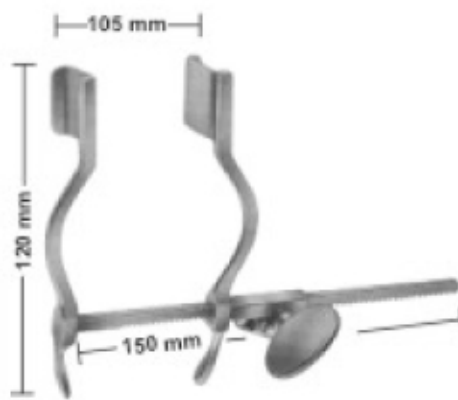


12-541 48x59 mm
12-542 58x80 mm
12-543 72x84 mm

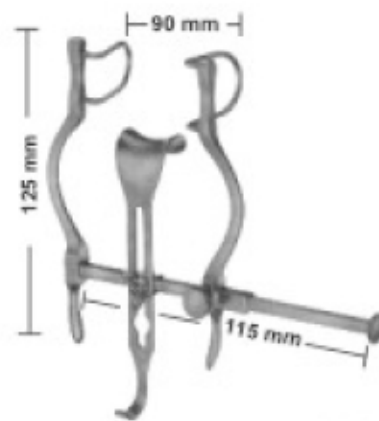




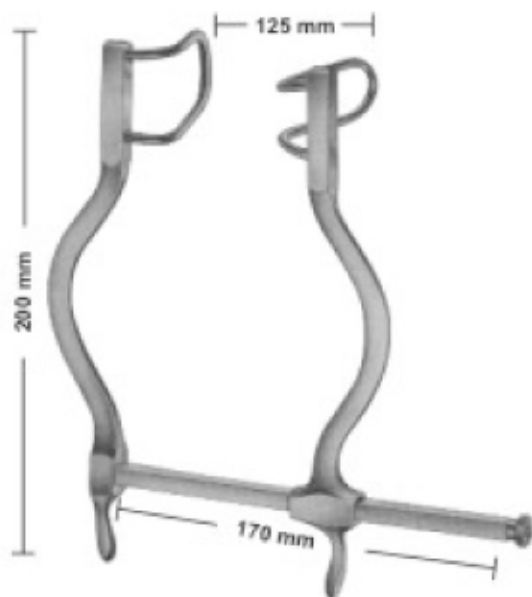
12-545
GOSSET
Blades: 38 mm deep



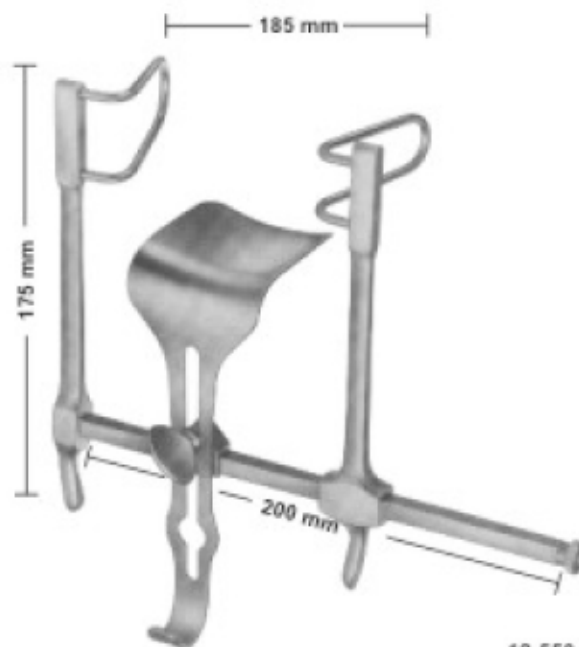
12-546
HERTZLER
Blades 20 X 25 mm



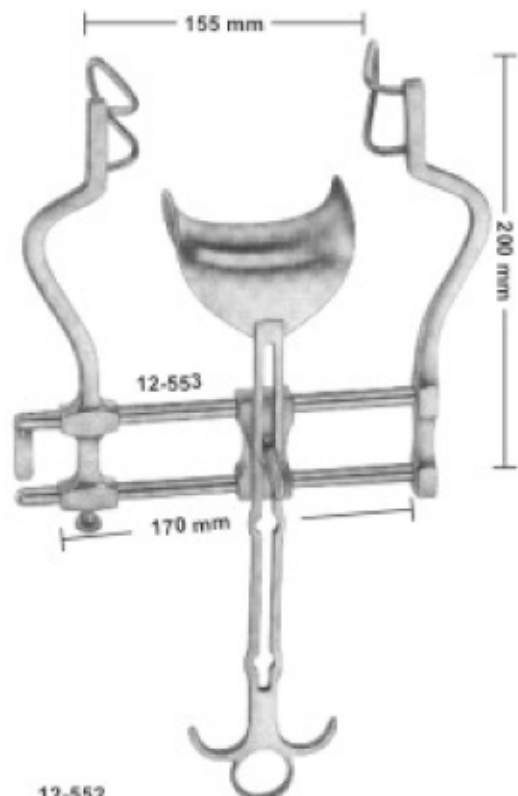
12-547
BALFOUR-BABY
Lateral blades 27 mm deep
(12-548) Center blade 21x24 mm



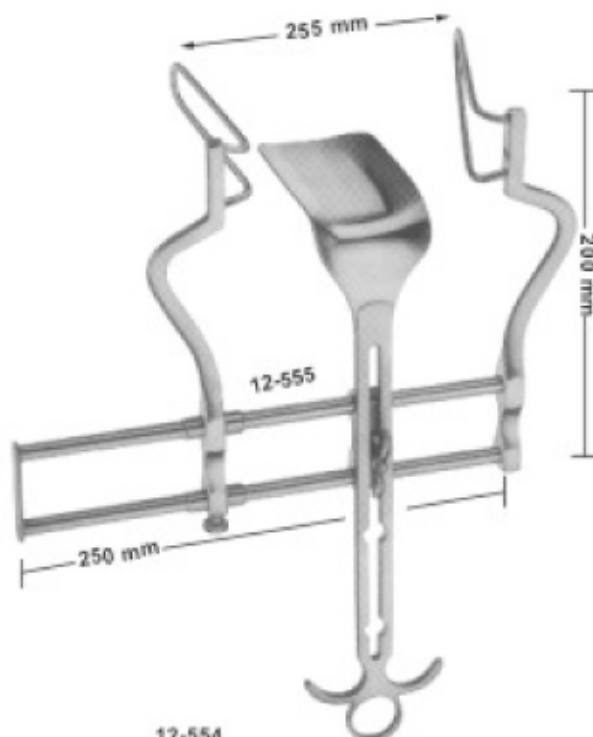
12-549
GOSSET
Blades: 55mm deep



12-550
GOSSET
Lateral blades 58 mm deep
(12-551) Center blade
59 x 57 mm



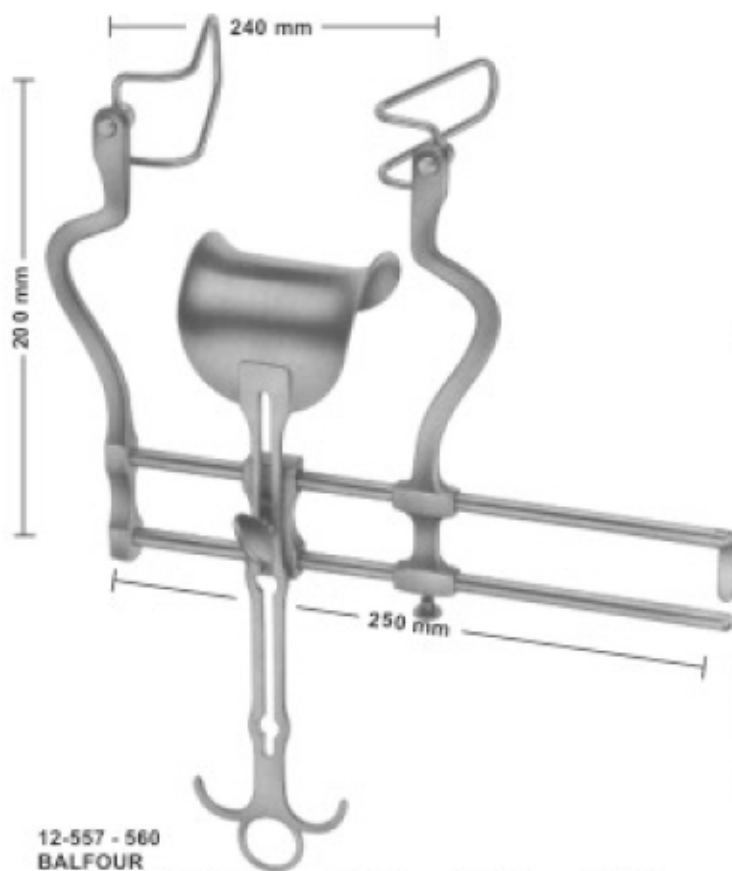
12-552
BALFOUR
Lateral blades 60 mm deep
(12-553) Center blade
47 x 80 mm



12-554
BALFOUR
Lateral blades 105 mm deep
(12-555) Center blade
107 x 59 mm



12-556
Center blade only
54 x 80 mm



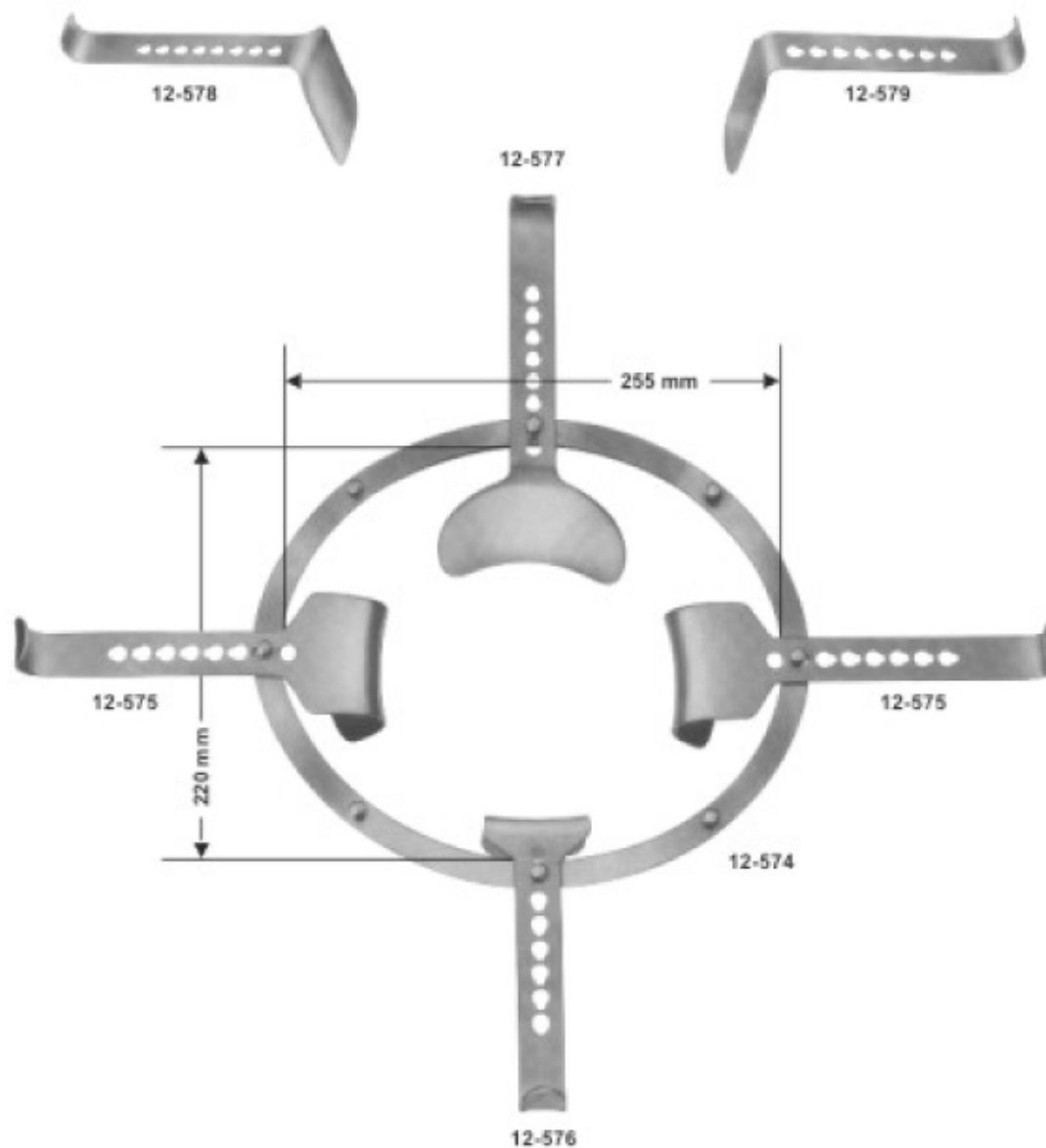
12-557 - 560
BALFOUR
Spreader only 12-561
Lateral blades 50 mm 12-562 60 mm 12-563 75 mm 12-564 90 mm
Center blade 47 x 80 mm 62 x 76 mm 80 x 80 mm 80 x 80 mm



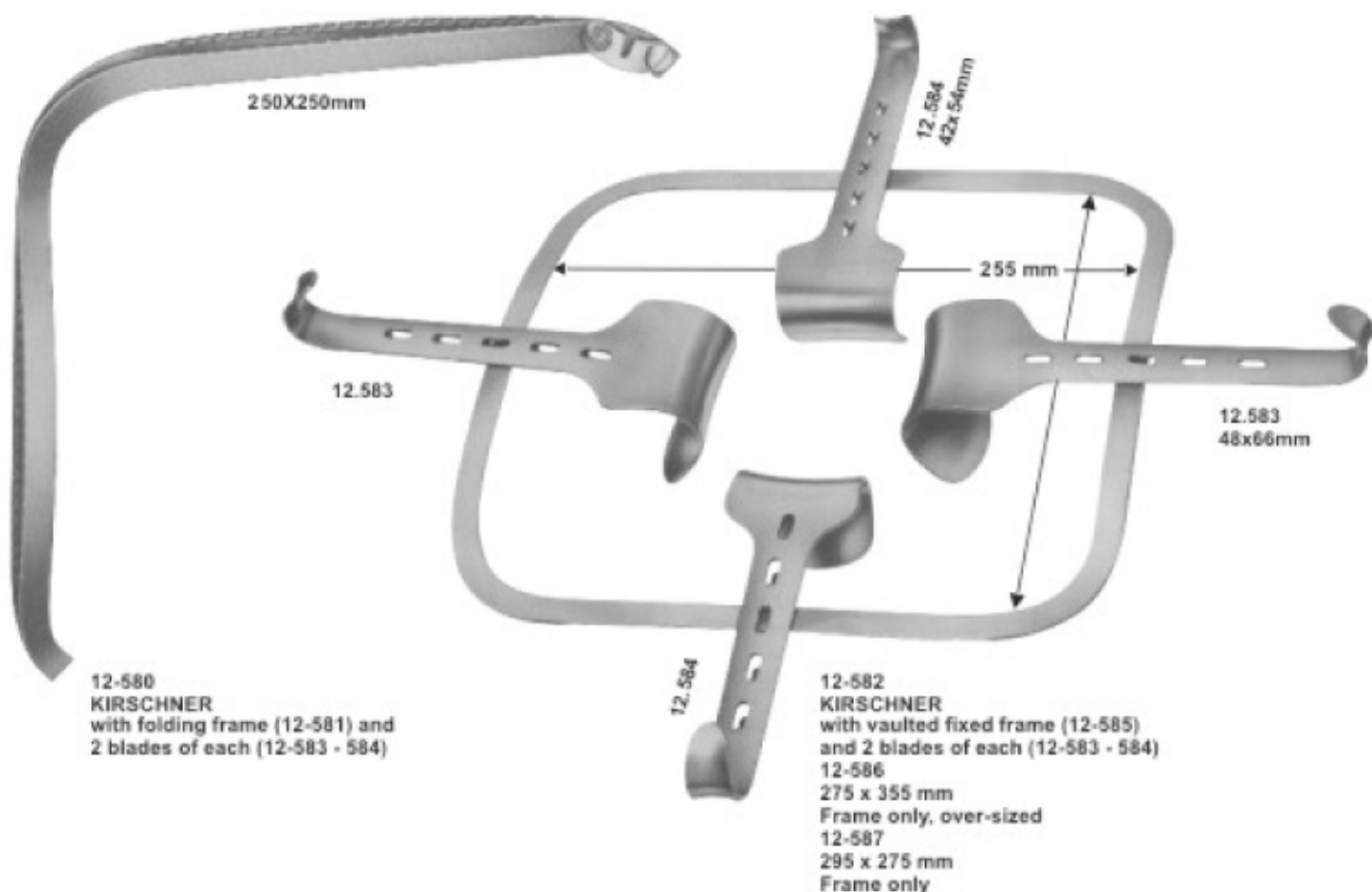
Lateral blades
12-565 50 mm deep
12-566 60 mm deep
12-567 75 mm deep
12-568 90 mm deep

Sales Unit of blades: PR = pair

Complete	12.557	12.558	12.559	12.560
Spreader only	12.561	12.562	12.563	12.564
Lateral blades	12.565	12.566	12.567	12.568
	50mm	60mm	75mm	90mm
Center blade	12.569	12.570	12.571	12.572
	47x80mm	62x76mm	80x80mm	80x80mm



- 12-573
SEMM
consisting of:
- 12-574 1 frame 225 x 220 mm
 - 12-575 2 blades 46 x 64 mm
 - 12-576 1 blade 53 x 54 mm
(for bladder)
 - 12-577 1 blade 82 x 97 mm
(for intestine)
 - 12-578 1 blade 98 x 51 mm
(for intestine)
 - 12-579 1 blade, narrow
107 x 36 mm



Addition valves for corpulent persons.



12-588 KIRSCHNER 64 x 80 mm

12-589 KIRSCHNER-BALFOUR 80x 82 mm

12-590 - 592 KIRSCHNER
12-590 90x 69mm
12-591 92x 95mm
12-592 78x 58mm

12-593 - 595 KIRSCHNER
12-593 108x42mm
12-594 91x 55mm
12-595 121x 55mm