



INTRODUCTION

Our experience in manufacturing of Surgical and Dental Instruments has been built-up since 1940, Systematically, uncompromisingly and precisely. A second outcome is quality with the greater pace of technological advancement, and our deeper Commitment to it. Quality is our watchword. We pursue it relentlessly from development through production to service and customer support. Precision is a very important factor in our process. We view precision not only in terms of manufacturing, but also in whole surgical procedure as an integrated system. Hence to develop the function more precisely, we share expertise opinion. All instruments are hand-crafted and minor deviation in size and weight may occur which does not effect the function and reliability of an instrument.

ACKNOWLEDGE EXPERTISE AND QUALITY BUILDING ON EXPERIENCE

Quality is not an accident; it is achieved as a result of Continuous efforts, new in-puts to system and human resources. Quality requires a solid foundation through expertise of the people who work for us. That's why we put emphasis in production and training.

QUALITY STANDARDIZATION

Whatever your demands are, all instruments are precisely and clearly recorded to your stated & implied requirements. Our Quality Assurance Department has developed and documented standard operating procedures, standing work instructions, quality plans & standard device master record. Our Research and Development (R&D) department is busy in designing the instruments as per the requirements of market and quality assurance standards; all specification, measurements and other data are registered in log books for Quality Assurance and other quality systems.

OUR CORPORATE GOAL:

The world is shrinking, and in response, we are growing. With our staff, workforce, customers and our patrons, by extending our product range, methods, which is evident through our presence across the globe. We find solutions for particular application problems throughout The world. We will gladly develop with you, refining ourselves to the standards you would expect for **Technical Zone**.

OUR COMMITMENT IS TO:

- Rise to the challenge of particular demanding standards.
 - Development and manufacturing from samples or drawings.
 - Selection of appropriate materials.
 - Mechanical & Chemical properties are carefully maintained through Boil test, Copper-sulfate test to characterize the material to indicate corrosion.
 - Passivation and other Chemical treatment are carried out to prevent from discoloration or rust.
 - Technical drawings with measurements for all instruments.
-

17

Hooks, Retractors

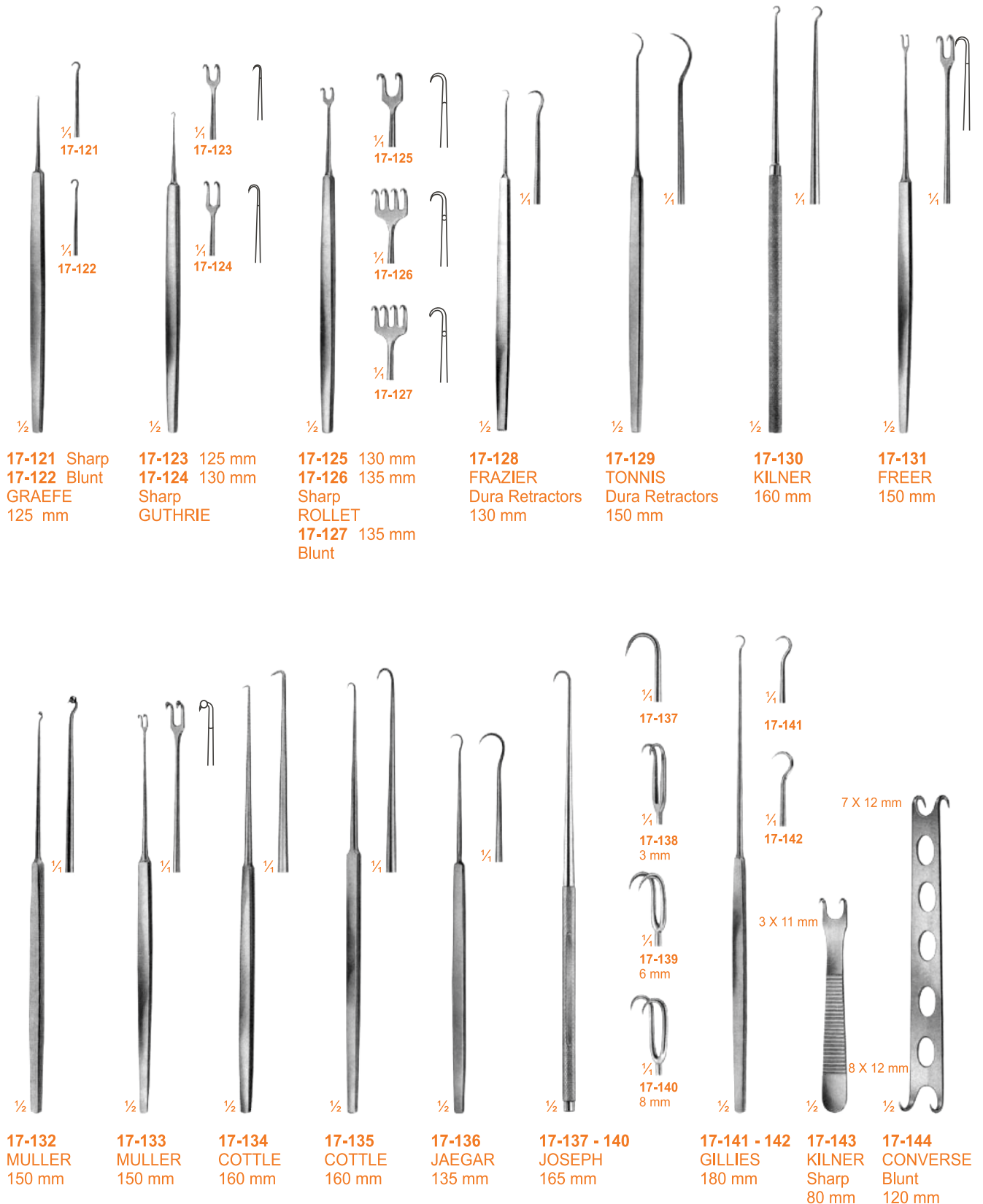
Nerve and Vessel Hooks



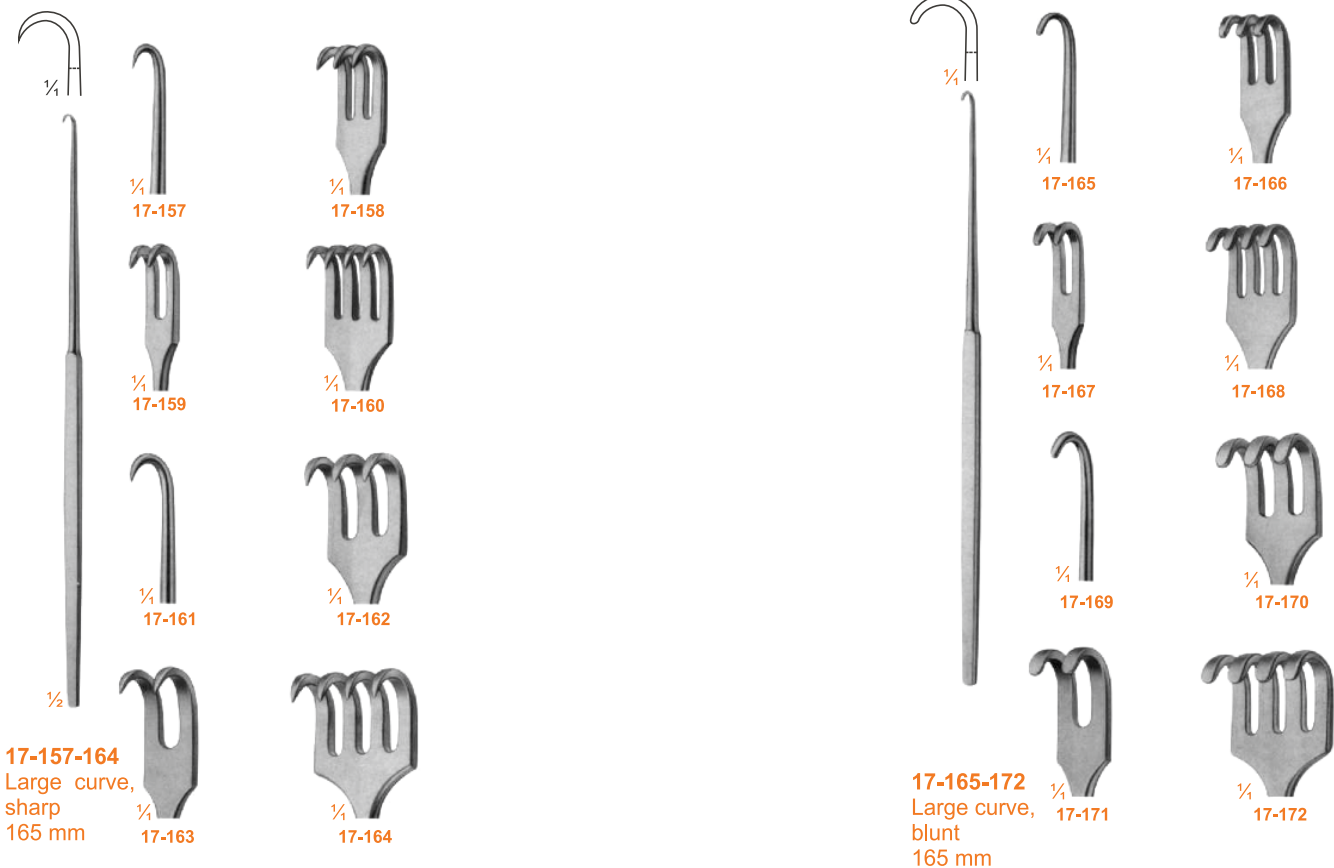
Nerve and Vessel Hooks

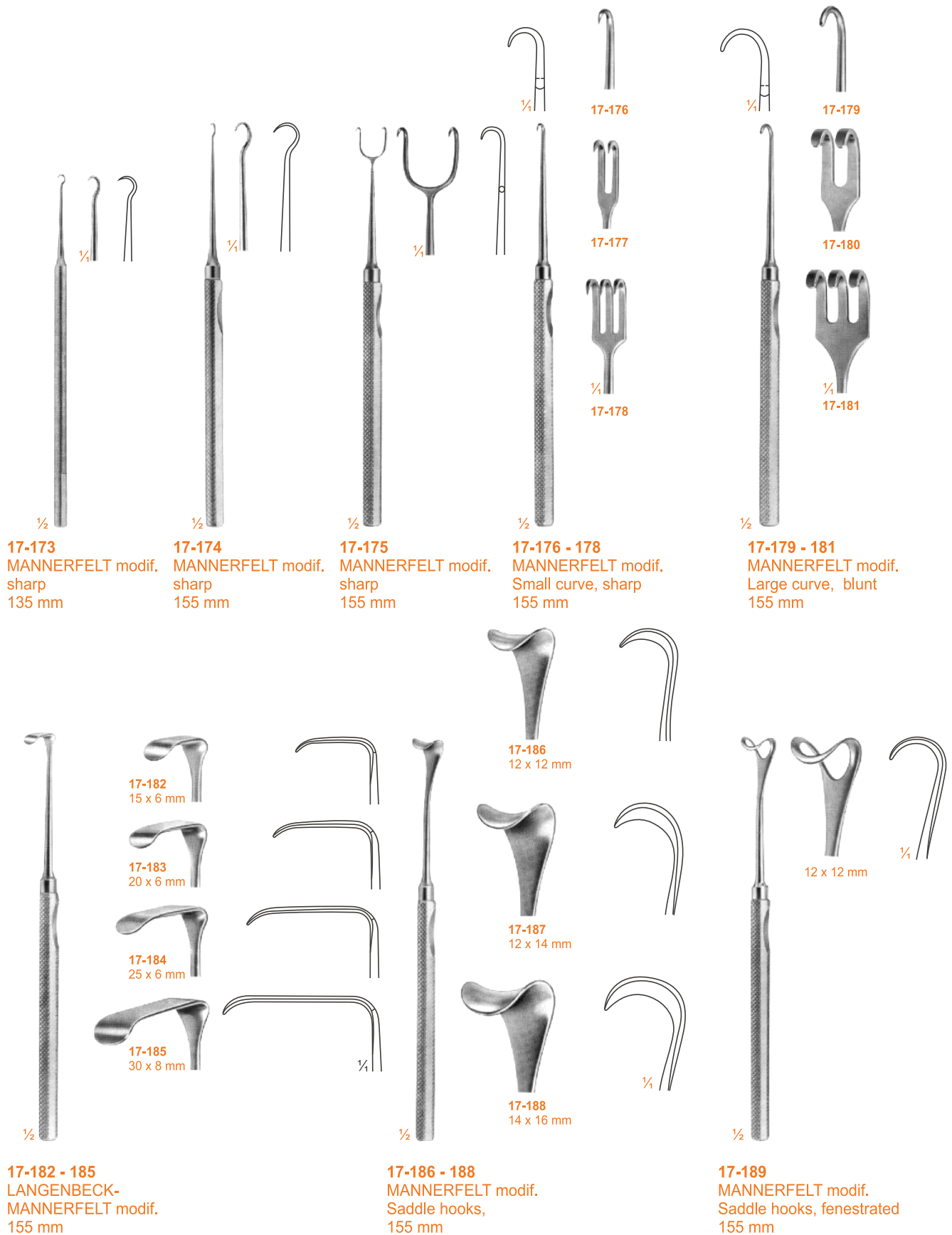


Fine Wound Retractors (Dura and Skin Retractors)



Wound - Trachea Retractors







17-190
FOMON
145 mm



17-191 - 192
160 mm



17-193 - 194
LANGENBECK-GREEN
160 mm



17-195
160 mm



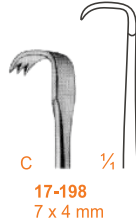
17-196 - 201
MEYERDING
Fig. A - Fig. F
180 mm



A
17-196
18 x 7 mm



B
17-197
16 x 5 mm



C
17-198
7 x 4 mm



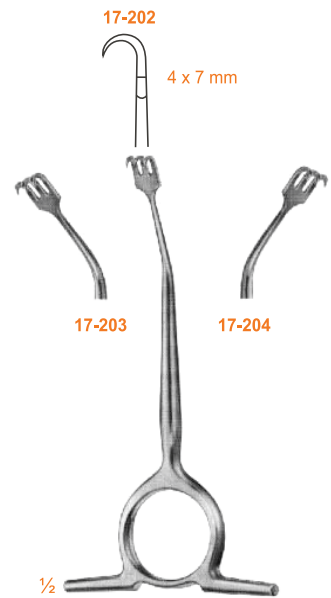
D
17-199
5 x 10 mm



E
17-200
11 x 4 mm



F
17-201
6 x 4 mm



17-202
4 x 7 mm

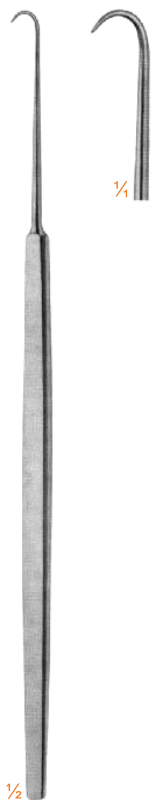
17-203

17-204

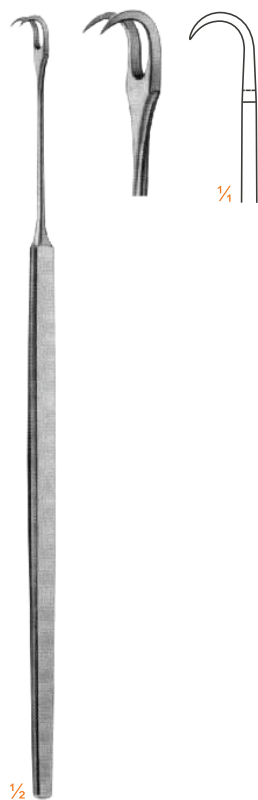
17-202 - 204
WILLIGER
120 mm



17-205
EMMET
Fistula hook
220 mm



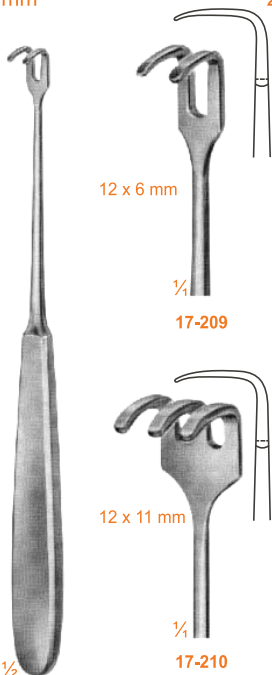
17-206
SIMON
Fistula hook
220 mm



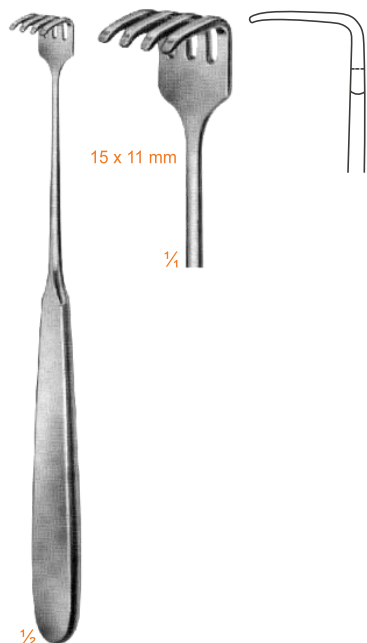
17-207
SIMON
Fistula hook
220 mm



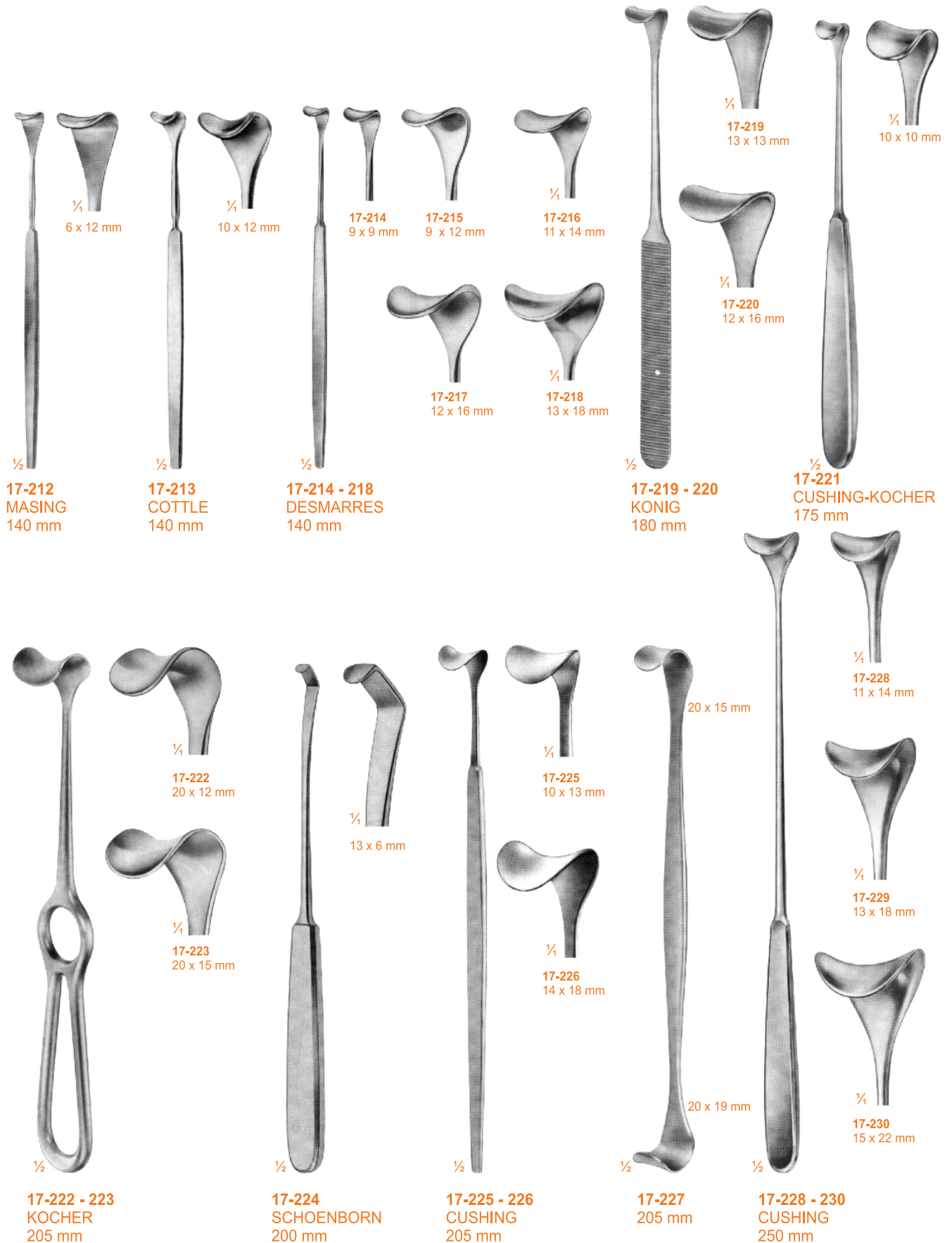
17-208
LANGE
Fistula hook
230 mm



17-209 - 210
Tendon hooks
175 mm



17-211
KLAPP
Tendon hooks
175 mm



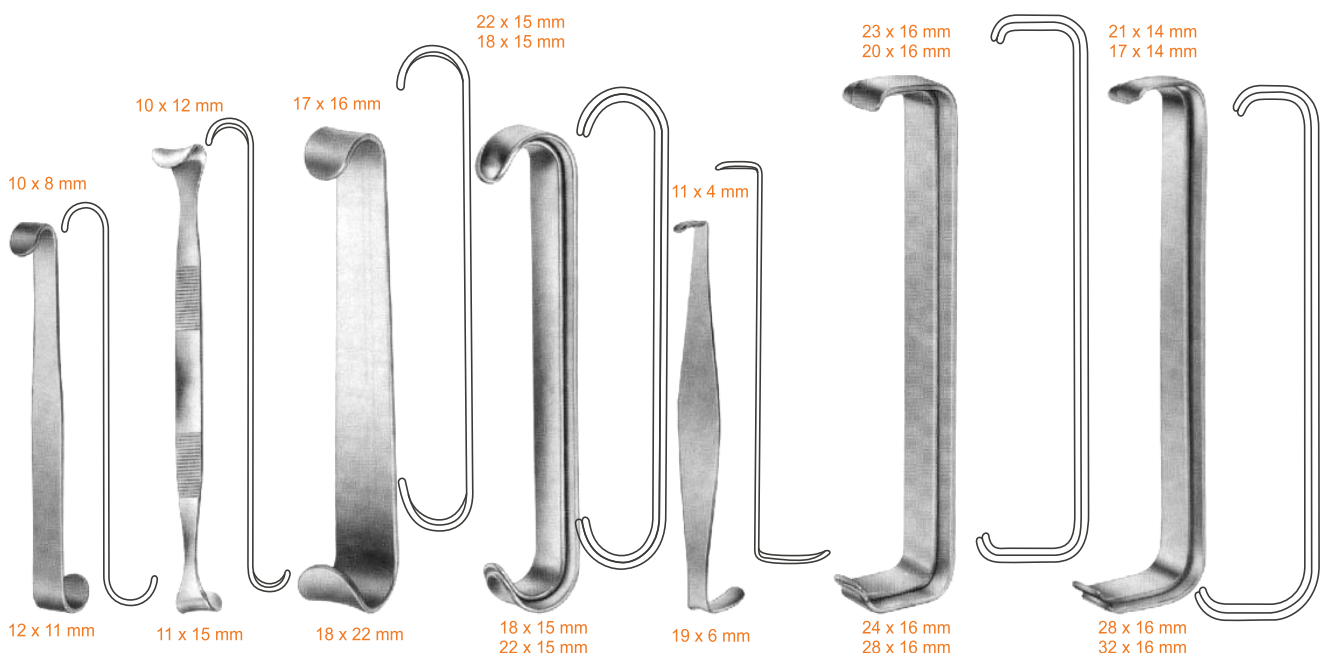


17-231 - 232
BABY-SENN-MILLER
155 mm

17-233
SENN-MILLER
165 mm

17-234
COLLIN-HARTMANN
150 mm

STERBERG
17-235 120 mm
17-236 130 mm
17-237 135 mm
17-238 140 mm



17-239
LUER
110 mm

17-240
ROSE
130 mm

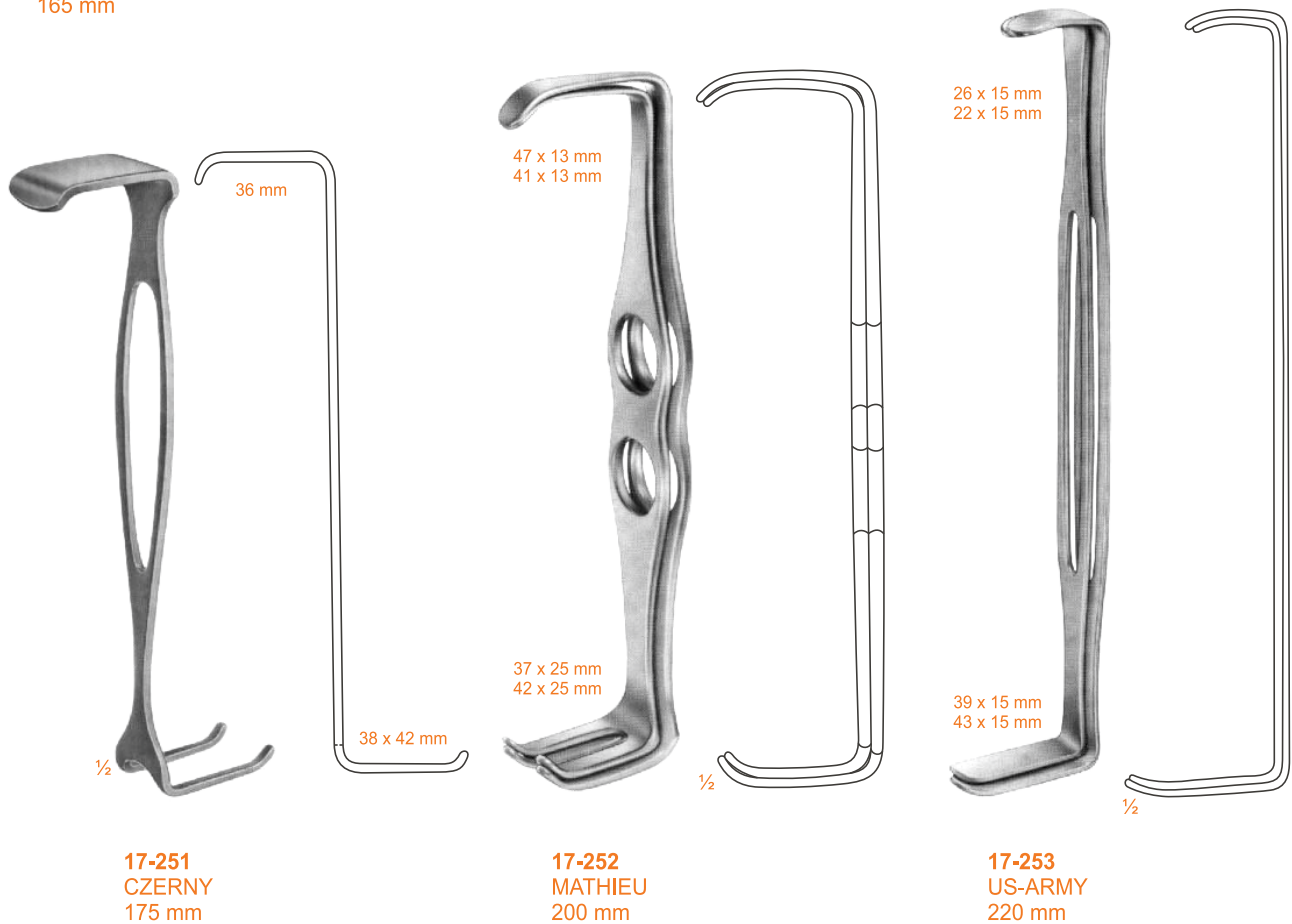
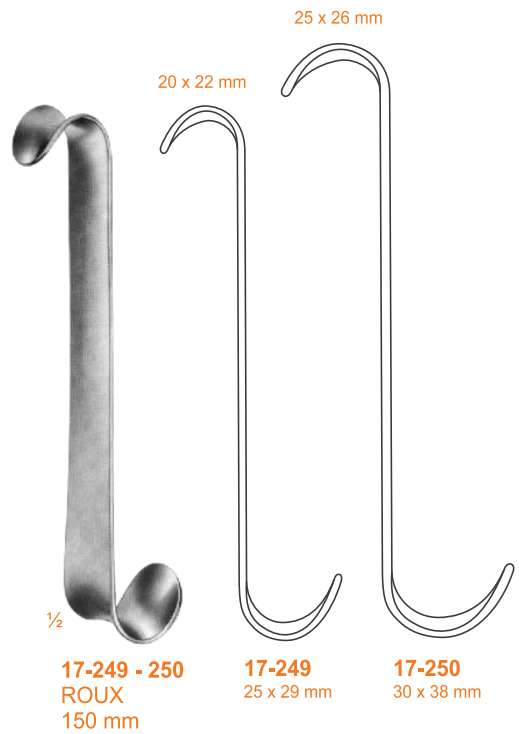
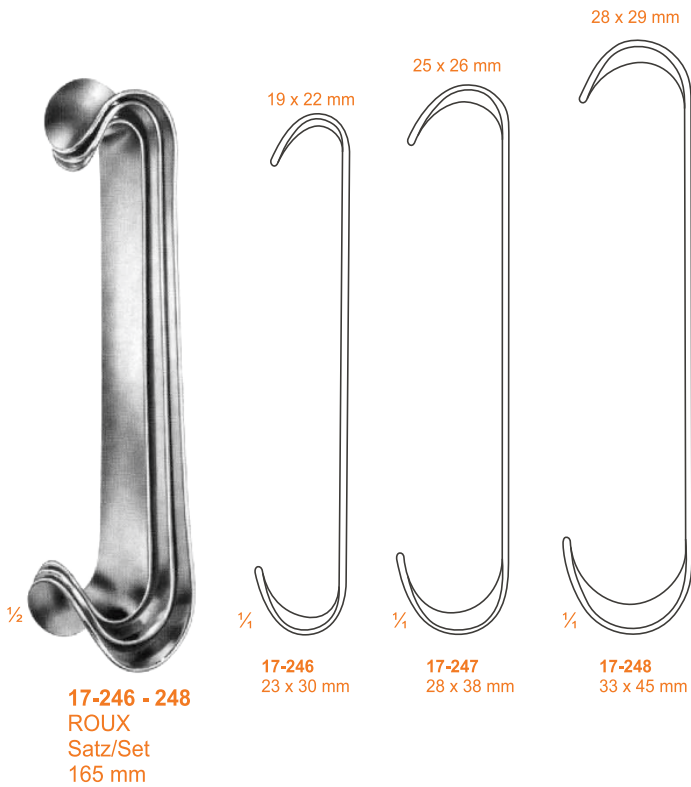
17-241
BABY-ROUX
135 mm

17-242
PARKER
135 mm

17-243
CRILE
110 mm

17-244
FARABEUF
150 mm

17-245
COLLIN
150 mm





17-254
KOCHER
Sharp
205 mm



17-255
KOCHER
Sharp
220 mm



17-256
KOCHER
Blunt
220 mm



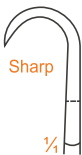
17-257
VOLKMANN
Sharp
220 mm



17-258
VOLKMANN
Sharp
220 mm



17-259 - 266
VOLKMANN
225 mm



Sharp

1/4



Blunt

1/4



17-259
9 x 8 mm



17-260
9 x 13 mm



17-261
9 x 19 mm



17-262
9 x 29 mm



17-263
8,5 x 8 mm



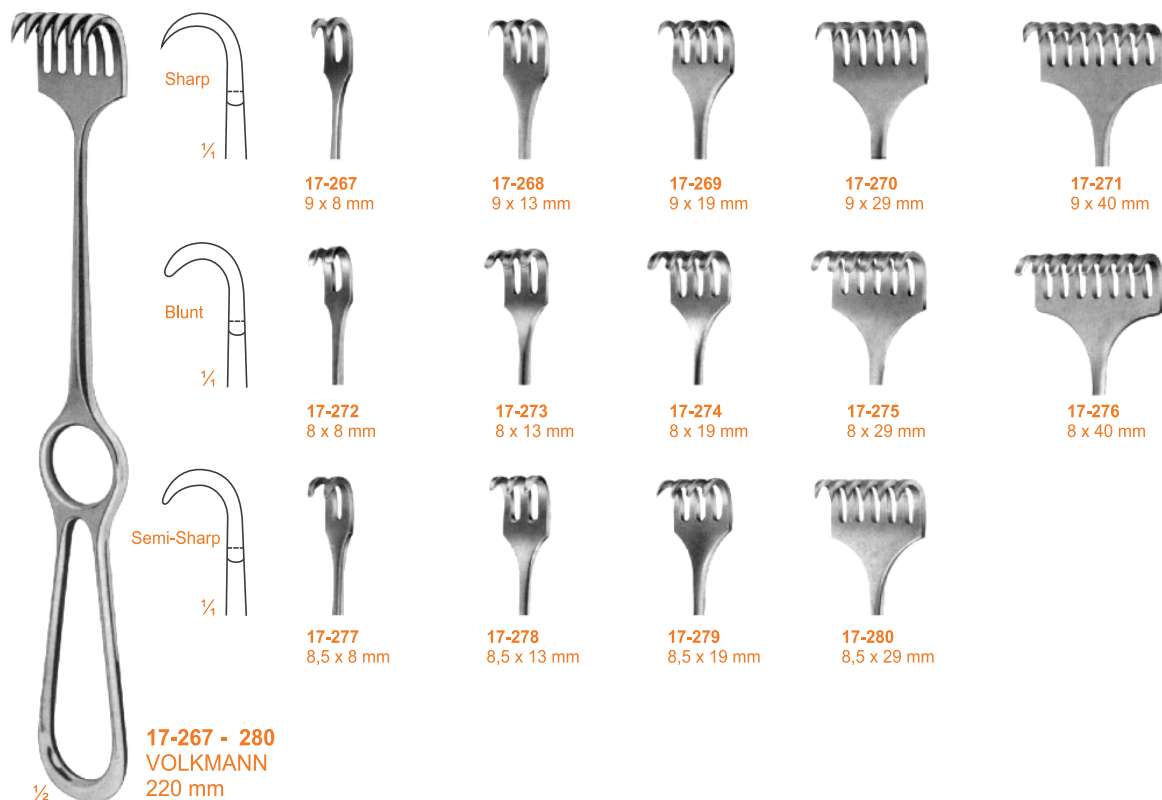
17-264
8,5 x 13 mm



17-265
8,5 x 19 mm



17-266
8,5 x 29 mm





17-289 - 290
KORTE
240 mm



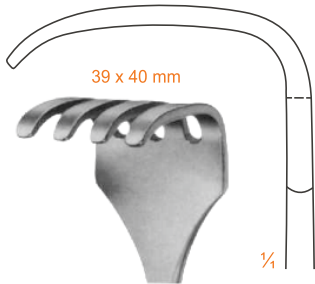
17-289
8 Prongs, blunt



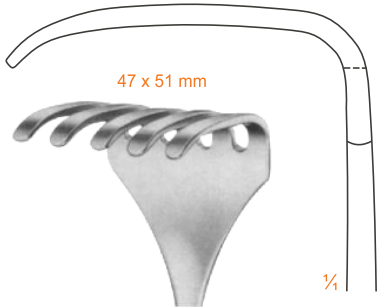
17-290
8 Prongs, sharp



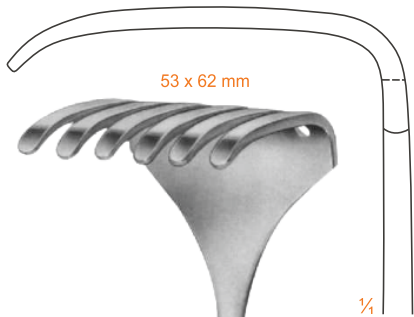
17-291 - 294
ISRAEL
255 mm



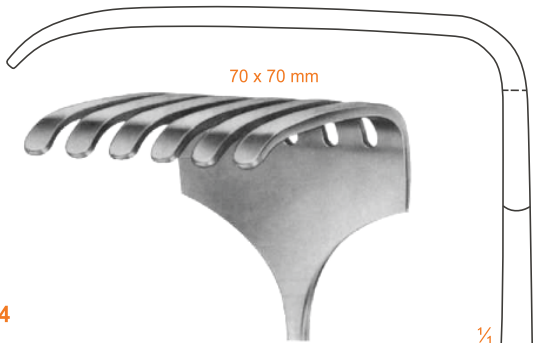
17-291
4 Prongs, blunt



17-292
5 Prongs, blunt



17-293
6 Prongs, blunt



17-294
6 Prongs, blunt



17-295 - 300
LANGENBECK
210 mm

17-295	28 x 10 mm
17-296	28 x 14 mm
17-297	33 x 14 mm
17-298	28 x 16 mm
17-299	40 x 10 mm
17-300	40 x 13 mm



17-301 - 307
KOCHER-LANGENBECK
215 mm

17-301	25 x 6 mm
17-302	35 x 8 mm
17-303	35 x 11 mm
17-304	35 x 15 mm
17-305	41 x 11 mm
17-306	55 x 11 mm
17-307	70 x 14 mm



17-308
LANGENBECK
215 mm



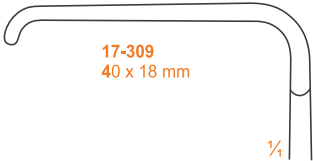
17-309 - 313
KOCHER
230 mm

1/2



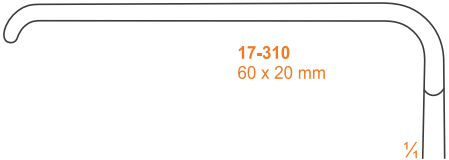
17-314 - 316
SAUERBRUCH
225 mm

1/2



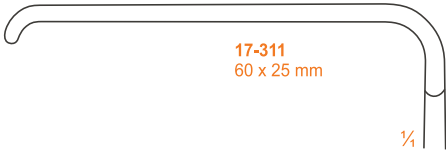
17-309
40 x 18 mm

1/4



17-310
60 x 20 mm

1/4



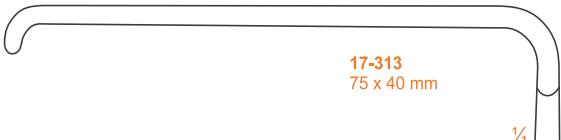
17-311
60 x 25 mm

1/4



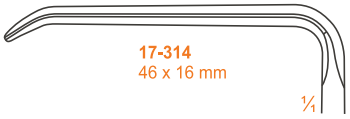
17-312
75 x 30 mm

1/4



17-313
75 x 40 mm

1/4



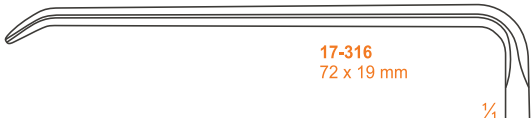
17-314
46 x 16 mm

1/4



17-315
55 x 22 mm

1/4

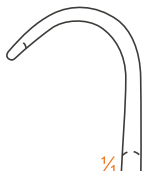


17-316
72 x 19 mm

1/4



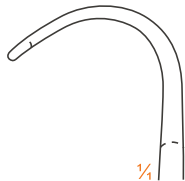
17-317
15 x 15 mm
220 mm



1/4



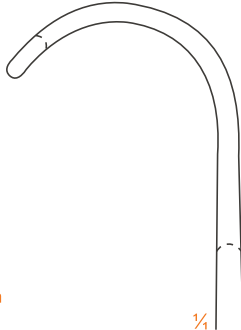
17-318
20 x 22 mm
215 mm



1/4



17-319
28 x 28 mm
235 mm



1/4

17-317 - 319
MIDDELDORPF



38 x 18 mm

17-320
BUCHS
205 mm

1/2



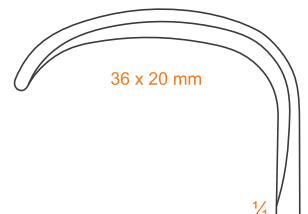
67 x 17 mm

1/4



17-321
CASPAR
210 mm

1/2



36 x 20 mm

1/4

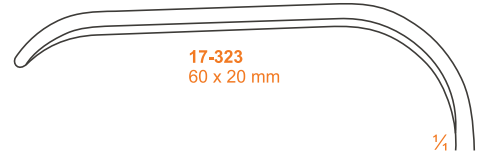
17-322
KOCHER
230 mm

1/2



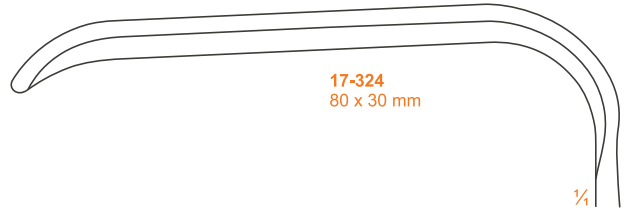
1/2

17-323 - 328
HOSEL
250 mm



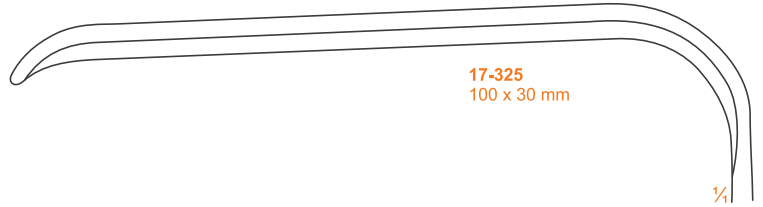
17-323
60 x 20 mm

1/4



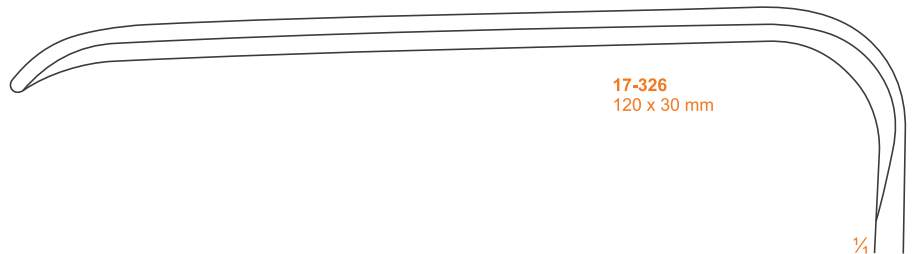
17-324
80 x 30 mm

1/4



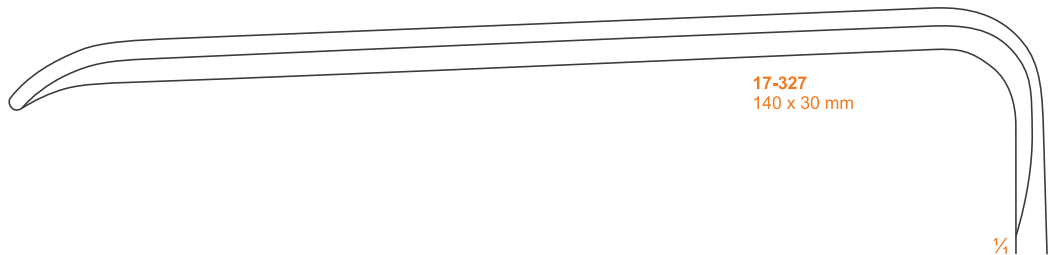
17-325
100 x 30 mm

1/4



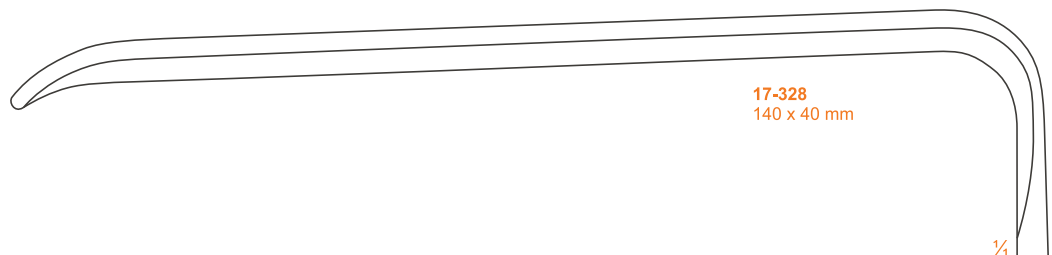
17-326
120 x 30 mm

1/4



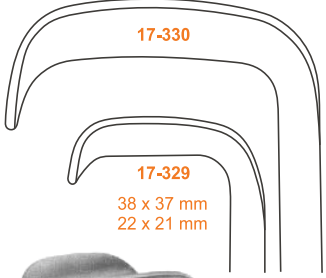
17-327
140 x 30 mm

1/4



17-328
140 x 40 mm

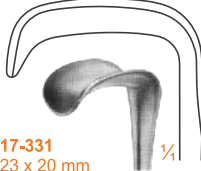
1/4



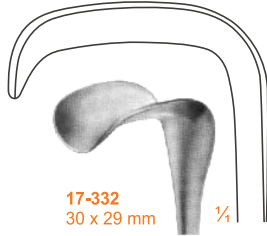
17-330



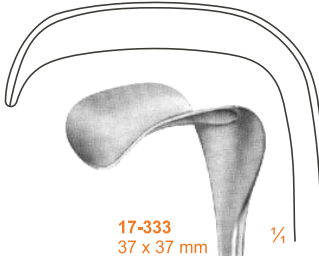
17-329
38 x 37 mm
22 x 21 mm



17-331
23 x 20 mm



17-332
30 x 29 mm



17-333
37 x 37 mm



47 x 21 mm

17-334
RICHARDSON
240 mm

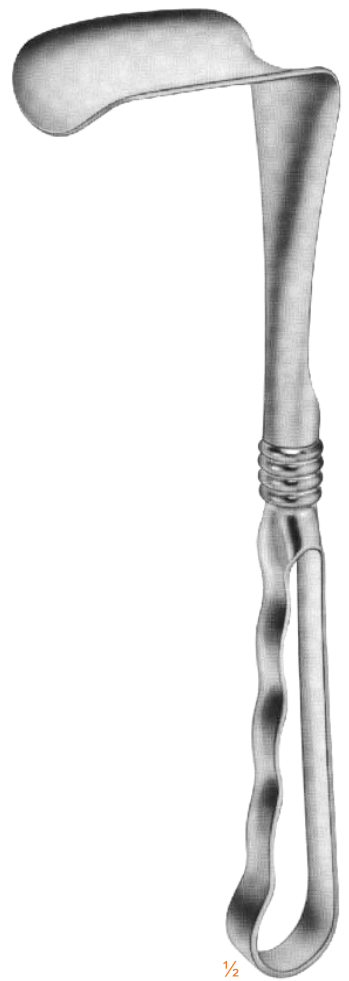
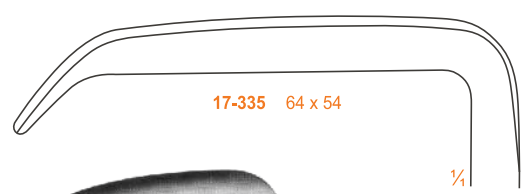
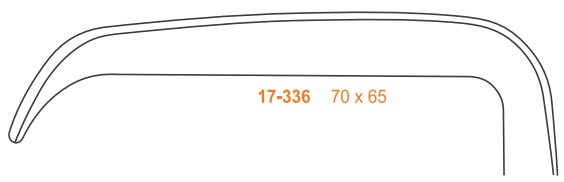


17-329 - 230
RICHARDSON-EASTMAN
Set-250 mm

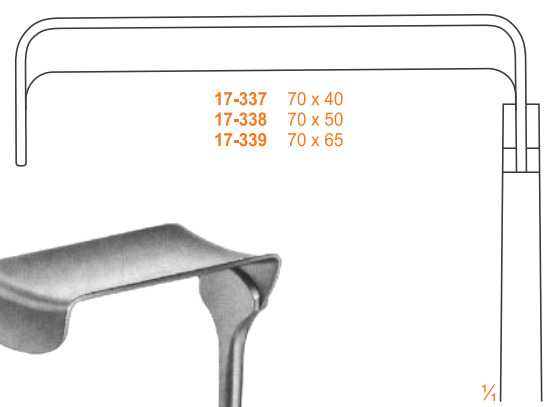
17-329 250 mm
17-330 270 mm



17-331 - 333
RICHARDSON
240 mm

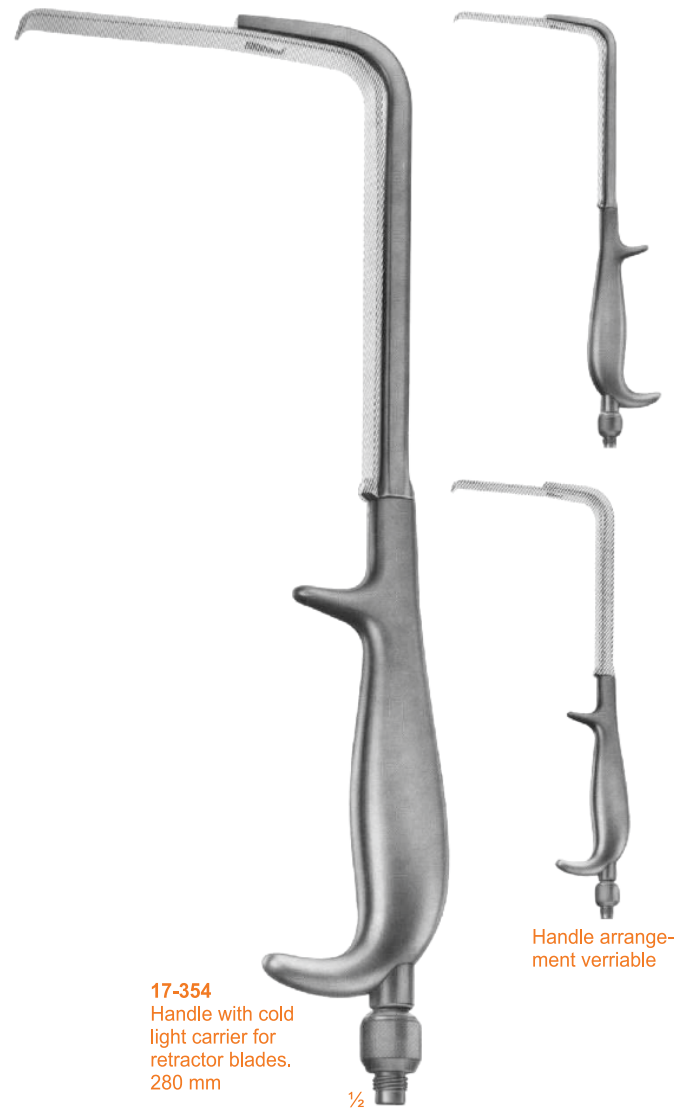


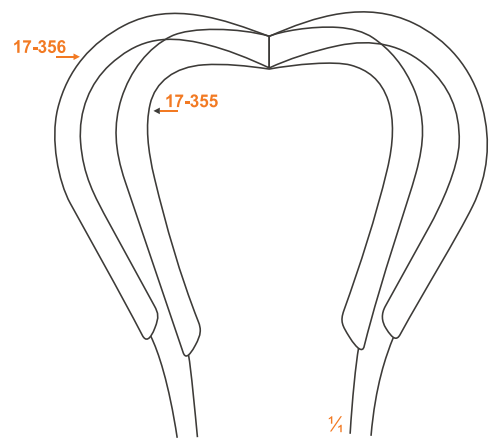
17-335 - 336
KELLY
260 mm



17-337 - 339
MORRIS
245 mm







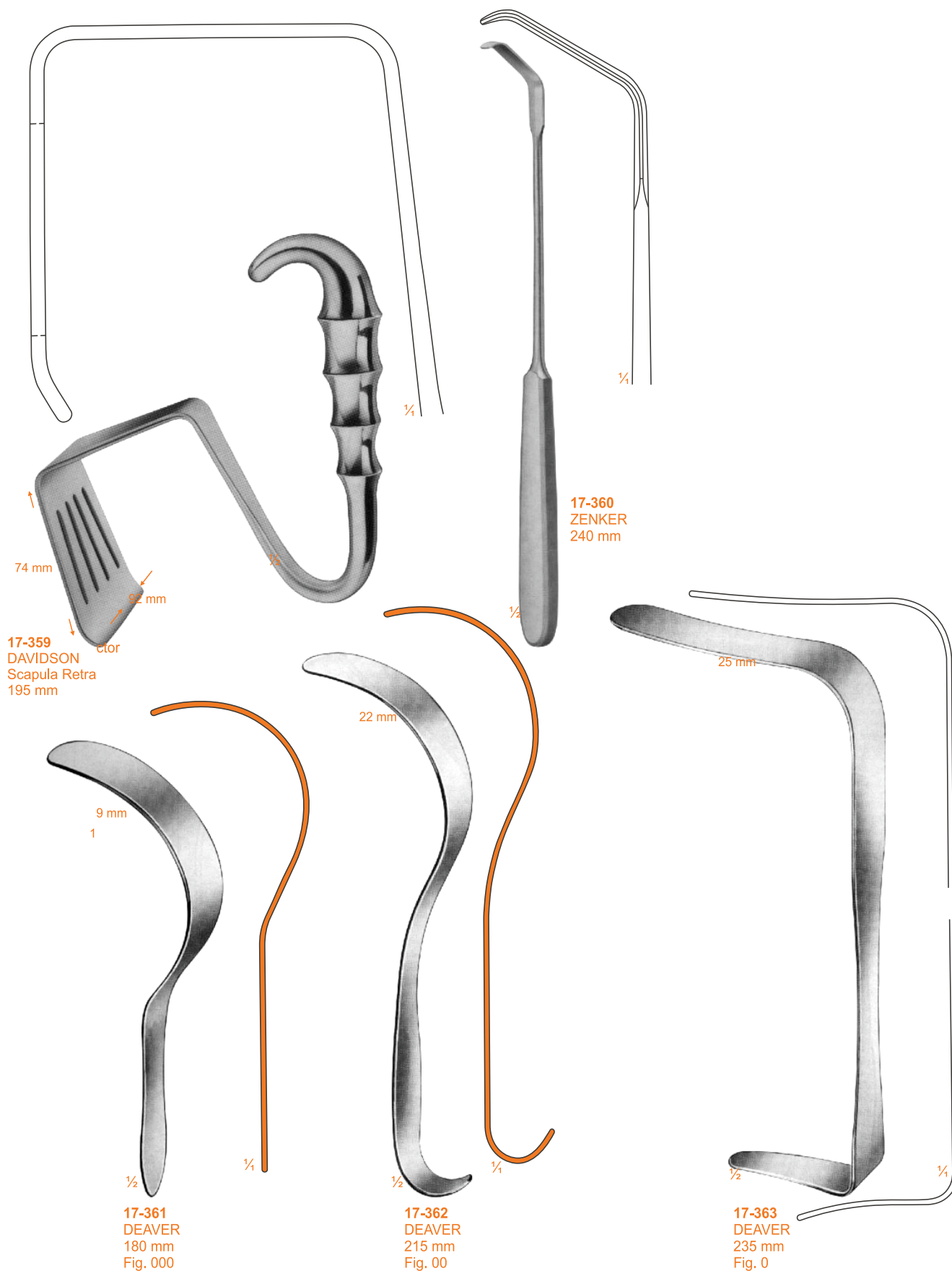
17-355 - 356
HARRINGTON
17-355 123 x 45 mm
17-356 123 x 64 mm
Flexible
295 mm



17-357
ALLISON
255 mm



17-358
ALLISON
320 mm





17-364
DEAVER
300 mm
Fig. 1



17-365
DEAVER
315 mm
Fig. 2



17-366
DEAVER
365 mm
Fig. 2



17-367
DEAYER
300 mm
Fig. 3

17-368
DEAYER
310 mm
Fig. 4

17-369
DEAYER
320 mm
Fig. 5



17-370
DEAVER
310 mm
Fig. 1



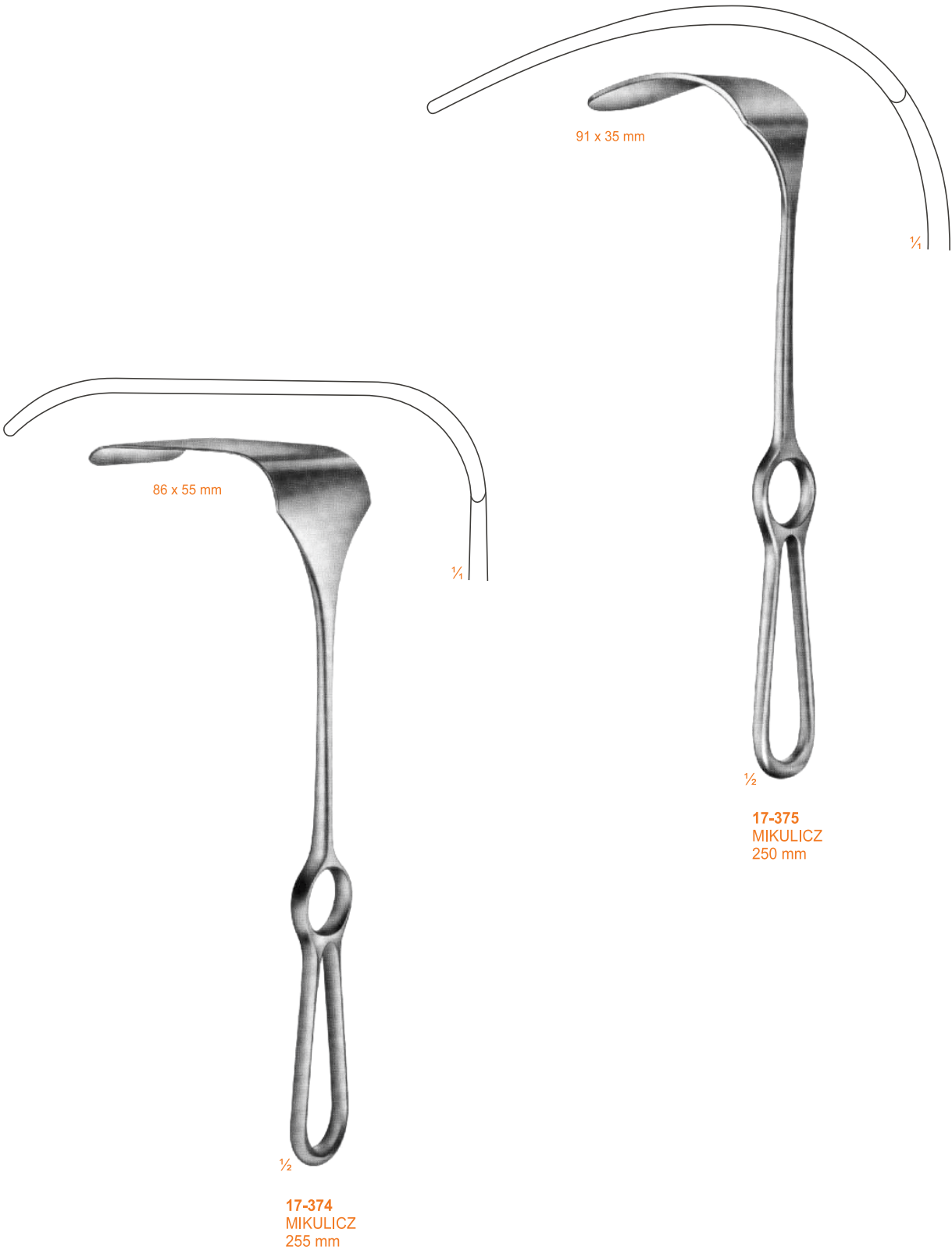
17-371
DEAVER
310 mm
Fig. 3



17-372
DEAVER
305 mm
Fig. 3



17-373
DEAVER
310 mm
Fig. 4



17-378 150 x 39 mm
17-379 150 x 57 mm

17-376 121 x 50 mm
17-377 147 x 50 mm

1/2

17-378 - 379
KELLY
17-378 150 x 39 mm
17-379 150 x 57 mm
260 mm

1/2

17-376 - 377
MIKULICZ
17-376 121 x 50 mm
17-377 147 x 50 mm
Liver Retractor
250 mm



17-391 Fig.1 32 x 40 mm
 17-392 Fig.2 34 x 50 mm
 17-393 Fig.3 41 x 60 mm
 17-394 Fig.4 46 x 75 mm
 17-395 Fig.5 64 x 85 mm

17-380 - 390
 DOYEN
 240 mm

17-391 - 395
 FRITSCH
 240 mm

17-396
 DOYEN
 250 mm

Width of Blades
 35 mm, 45 mm, 60 mm

Length of Blades
 62 mm
 92 mm
 122 mm
 160 mm

17-380, 17-381, 17-382
 17-383, 17-384, 17-385
 17-386, 17-387, 17-388
 17-389, 17-390



17-397 - 401
ROCHARD
310 mm
17-397 48 x 90 mm
17-398 48 x 105 mm
17-399 48 x 120 mm
17-400 48 x 135 mm
17-401 48 x 155 mm

1/3



1/3

17-402



1/3

17-403 - 406
DOYEN
280 mm
17-403 48 x 90 mm
17-404 48 x 105 mm
17-405 48 x 120 mm
17-406 48 x 135 mm

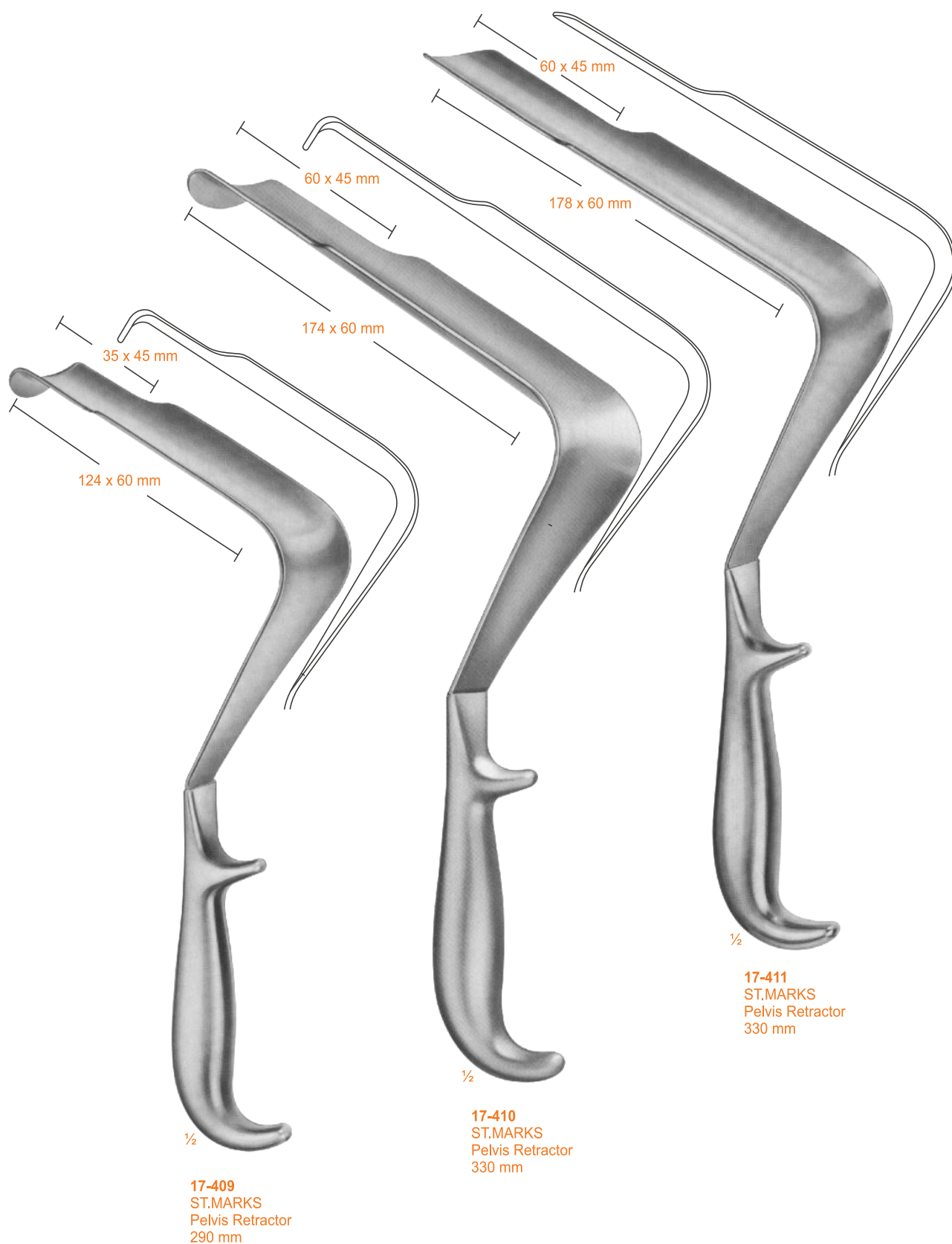


1/3

17-407
DOYEN-CHILD
Fixation device
220 mm



17-408
Chain with
weight (747 / 645g)
790 mm





17-412
LERICHE
255 mm

17-413
KUMMEL
Melleable
285 mm

17-414
MIKULICZ
29 mm
250 mm

17-415 - 416
KADER
17-415 30 mm
17-416 40 mm
270 mm



17-417
REVERDIN
285 mm



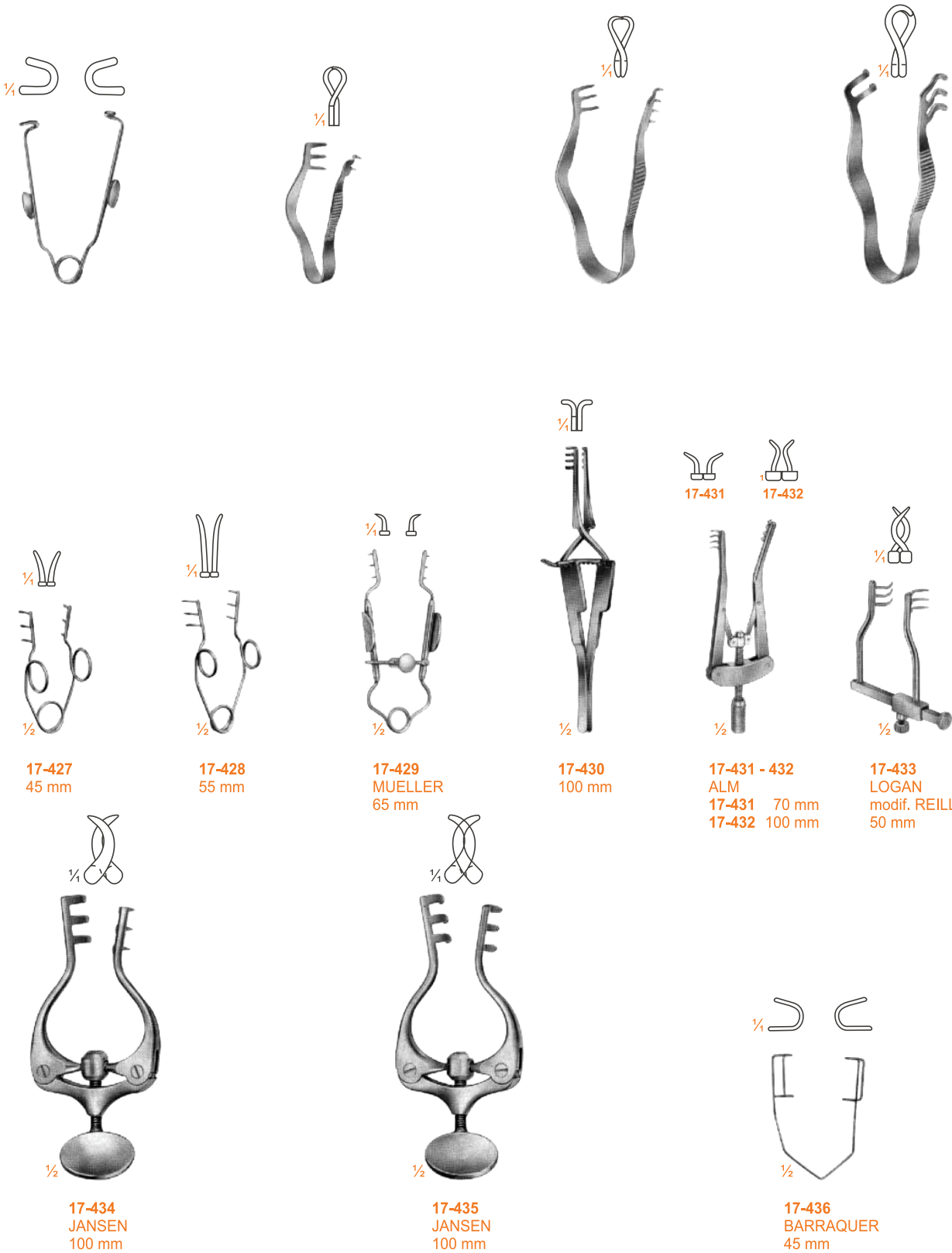
17-418
HABERER
Malleable
305 mm



17-419 30 mm
17-420 40 mm
17-421 50 mm
Malleable
330 mm

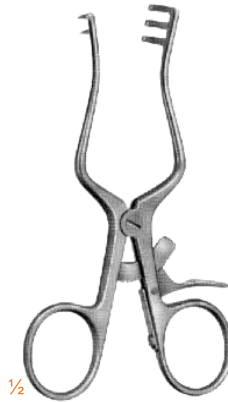


17-422
TUFFIER
Malleable
200 mm





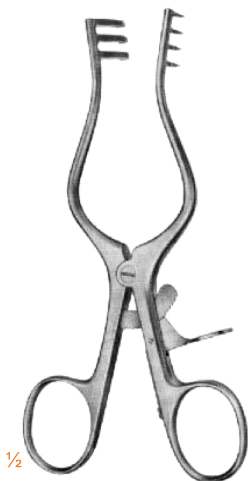
17-437
WEITLANER
Sharp
110 mm



17-438
WEITLANER
Semi-Sharp
110 mm



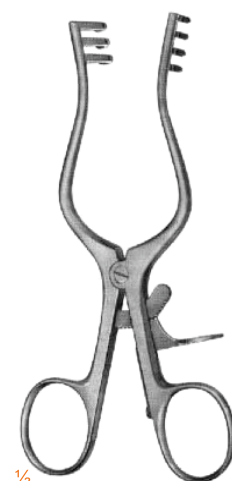
17-439
WEITLANER
Blunt
110 mm



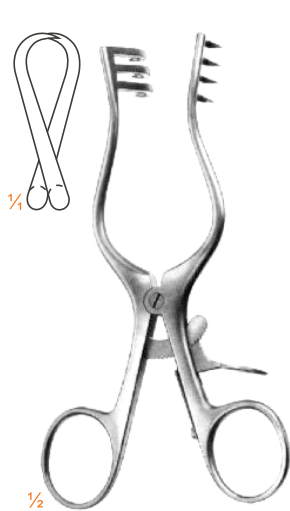
17-440
WEITLANER
Sharp
130 mm



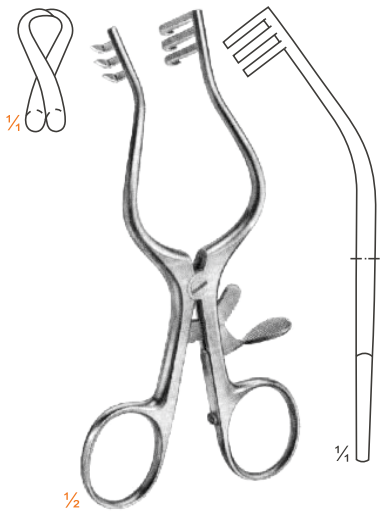
17-441
WEITLANER
Semi-Sharp
130 mm



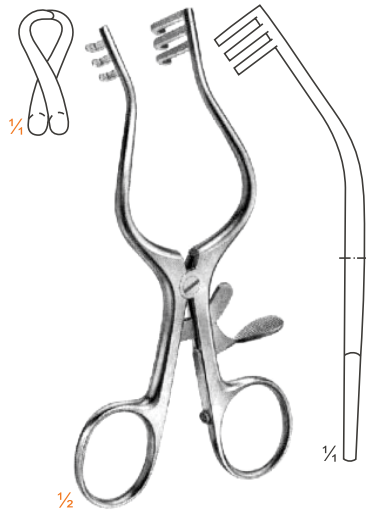
17-442
WEITLANER
Blunt
130 mm



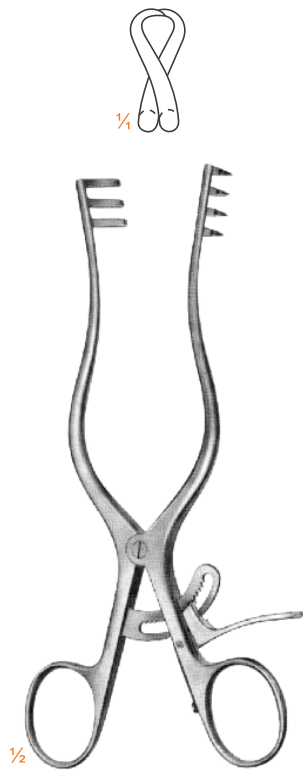
17-443
WEITLANER
Sharp
130 mm



17-444
WULLSTEIN
Sharp
130 mm



17-445
WULLSTEIN
Blunt
130 mm



17-446
WEITLANER
Sharp
165 mm



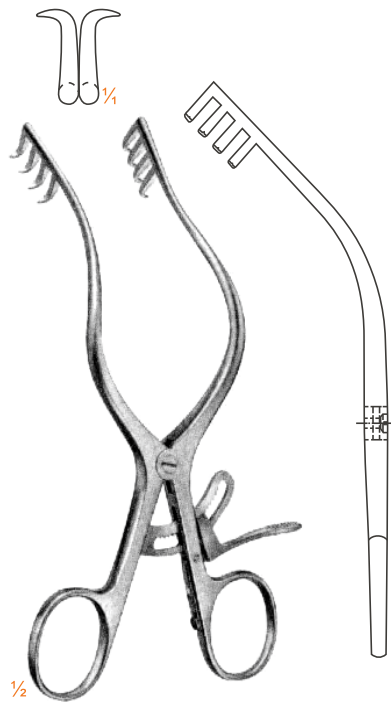
17-447
PLESTER
Blunt
110 mm



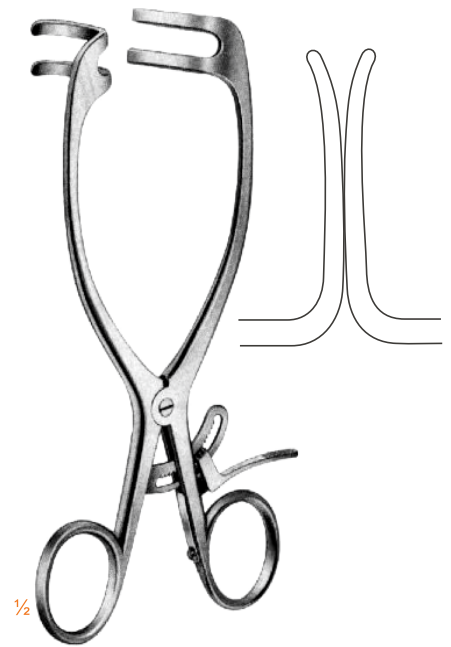
17-448
PERKINS
130 mm



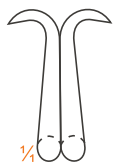
17-449
ADSON-BABY
Blunt
140 mm



17-450
MOLLISON
Sharp
155 mm



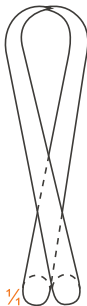
17-451
MAYO-ADAMS
165 mm



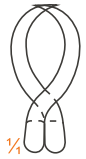
17-452
ANDERSON-ADSON
Sharp
190 mm



17-453
NORFOLK and
NORWICH
Blunt
220 mm



17-454
ADSON
Sharp
265 mm



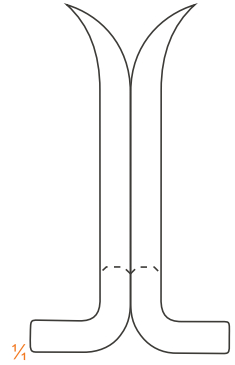
Sharp



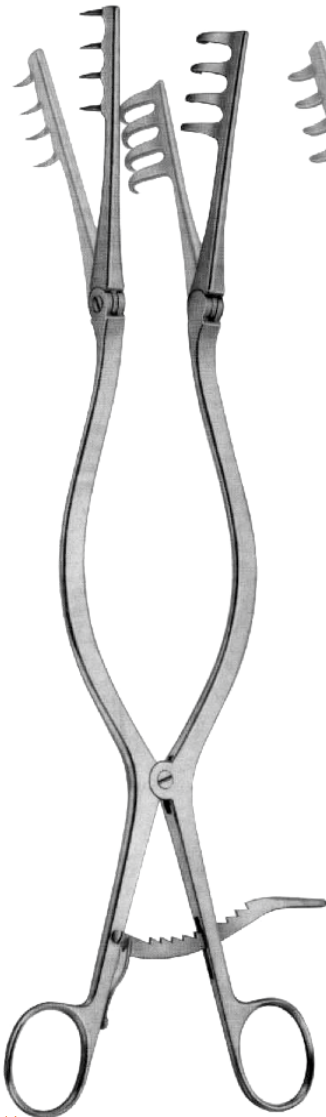
Semi-Sharp



Semi-Sharp



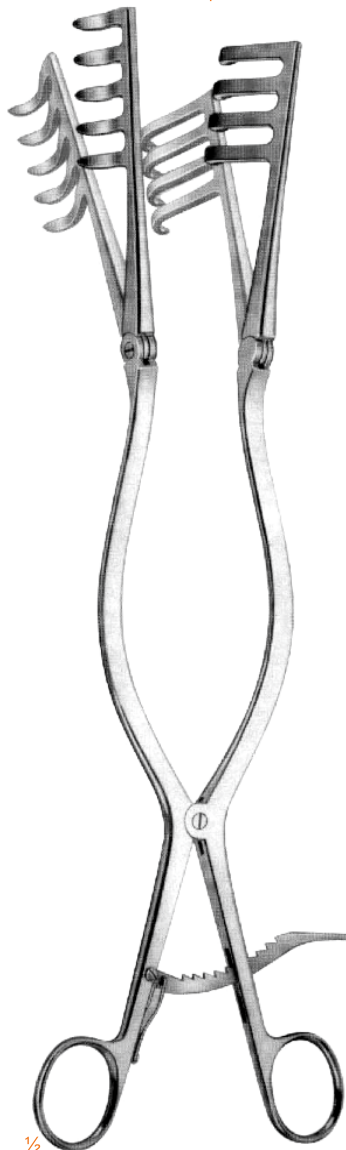
1/4



1/2



17-456
BECKMANN-ADSON
Semi-Sharp
310 mm



1/2



1/2

17-455 - 456
BECKMANN-ADSON
Sharp
310 mm

17-457
ADSON
Semi-Sharp
320 mm

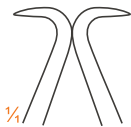
17-458
BECKMANN-EATON
Sharp
320 mm



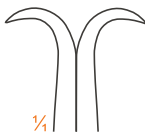
17-459
JOLL (FRIEDMAN)
Thyroid- and Vaginal Retractor
155 mm



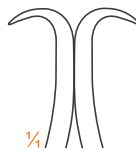
17-460
JACKSON BURROWS
Retractor, blunt
185 mm



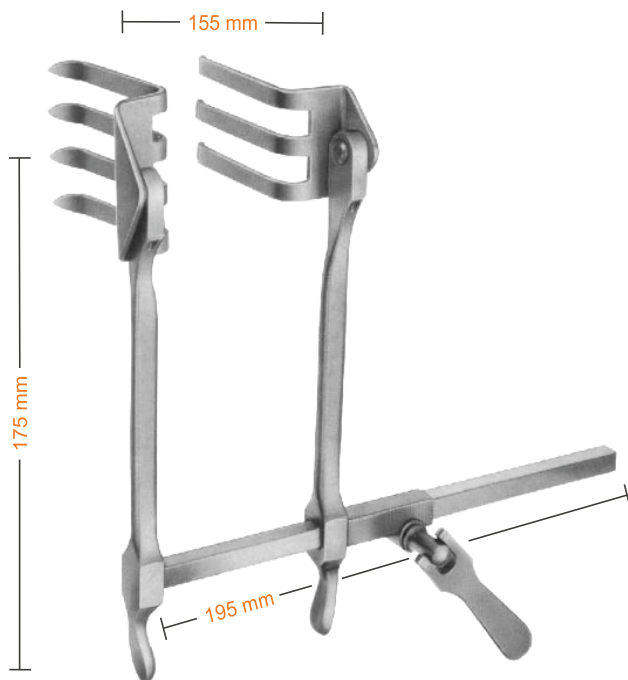
17-461
GELPI
Vaginal Retractor
135 mm



17-462
GELPI
Skin- and Vaginal Retractor
175 mm



17-463
DE BAKEY
Femur Retractor
145 mm



17-464 - 468
SCOVILLE-RICHTER
Retractor with 1 pair
blades reversible type.
The Retractor bar and
shanks may be easily
rotated 180° when
blades are in situ.



17-465
62 x 52 mm 62 x 37 mm
PR= Pair



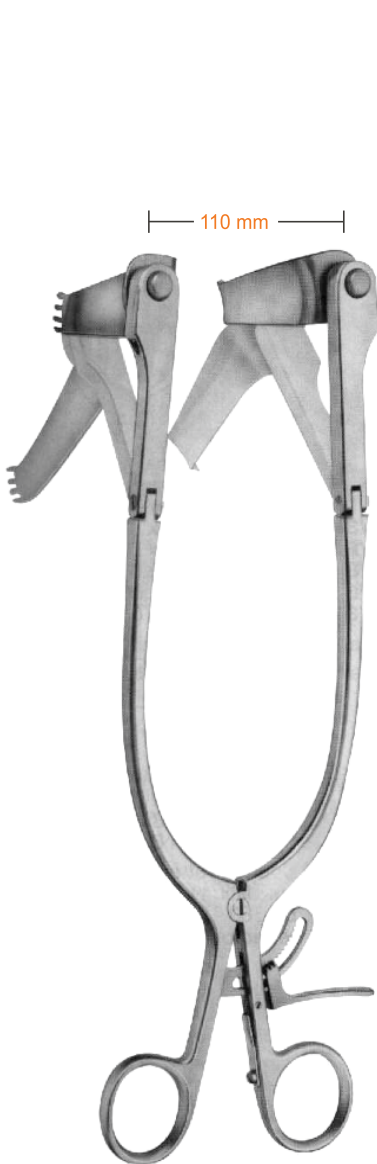
17-466
47 x 51 mm



17-467
30 x 40 mm



17-468
37 x 62 mm



17-469
CLOWARD modif.
Spreader Only



16 mm
17-470



16 mm
17-471



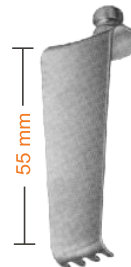
16 mm
17-475



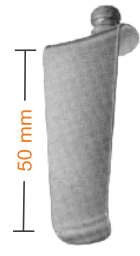
16 mm
17-476



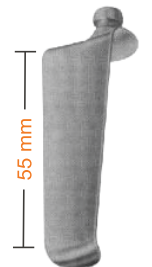
16 mm
17-472



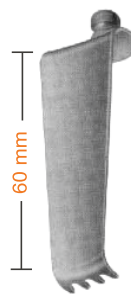
16 mm
17-473



16 mm
17-477



16 mm
17-478



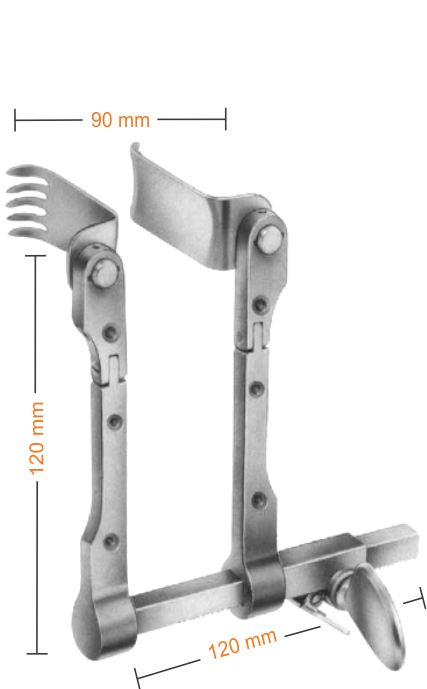
16 mm
17-474



16 mm
17-479

17-470 blade
17-471 blade
17-472 blade
17-473 blade
17-474 blade

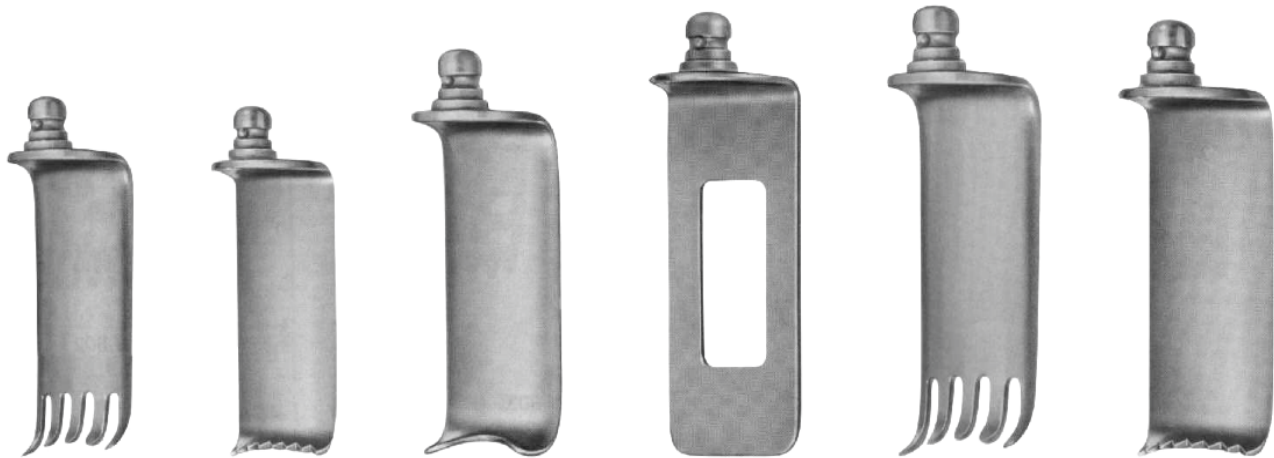
17-475 blade
17-476 blade
17-477 blade
17-478 blade
17-479 blade



17-480
CASPAR
Retractor, adjustable,
consisting of: 5 medial
blades, 5 Lateral blades.



17-480 A
CASPAR
Counter retractor, adjustable,
consisting of: 5 blades.



17-481 40 x 23 mm
17-482 45 x 23 mm
17-483 50 x 23 mm
17-484 55 x 23 mm
17-485 60 x 23 mm
Medial blades

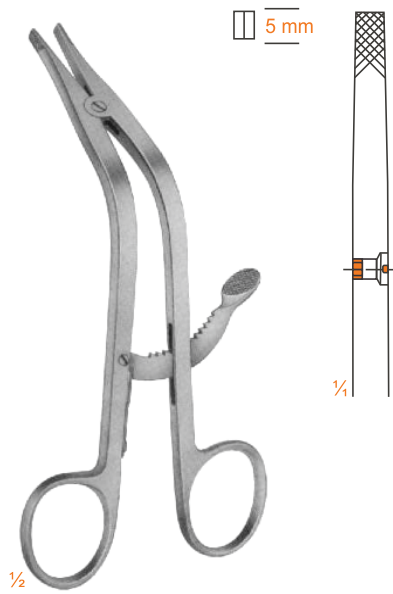
17-486 40 x 23 mm
17-487 45 x 23 mm
17-488 50 x 23 mm
17-489 55 x 23 mm
17-490 60 x 23 mm
Lateral blades

17-491 45 x 23 mm
17-492 50 x 23 mm
17-493 55 x 23 mm
17-494 60 x 23 mm
17-495 65 x 23 mm
Blunt blades

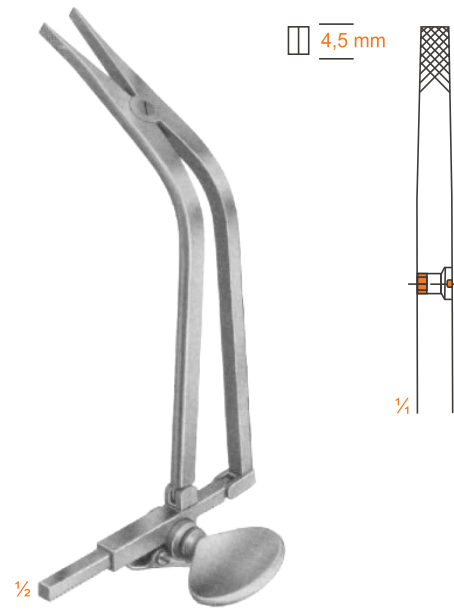
17-496 50 x 25 mm
17-497 60 x 25 mm
Blunt blades,
for harvesting of the
fusion graft from the
iliac crest

17-498 40 x 25 mm
17-499 45 x 25 mm
17-500 50 x 25 mm
17-501 55 x 25 mm
17-502 60 x 25 mm
Medial Titan blades
semi transparent to x-ray

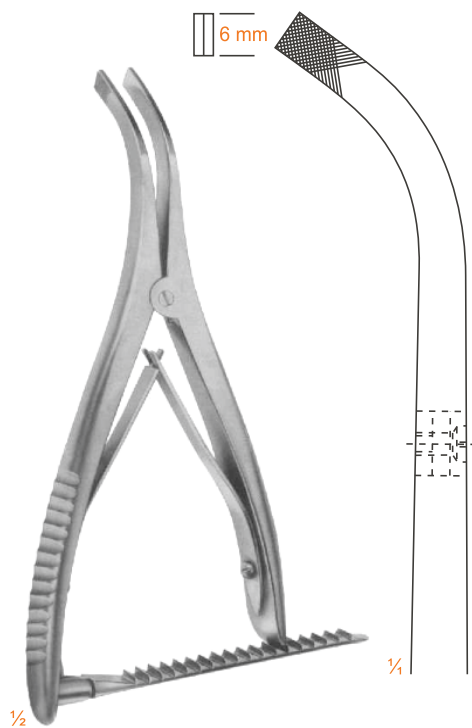
17-503 40 x 25 mm
17-504 45 x 25 mm
17-505 50 x 25 mm
17-506 55 x 25 mm
17-507 60 x 25 mm
Lateral Titan blades
semi transparent to x-ray



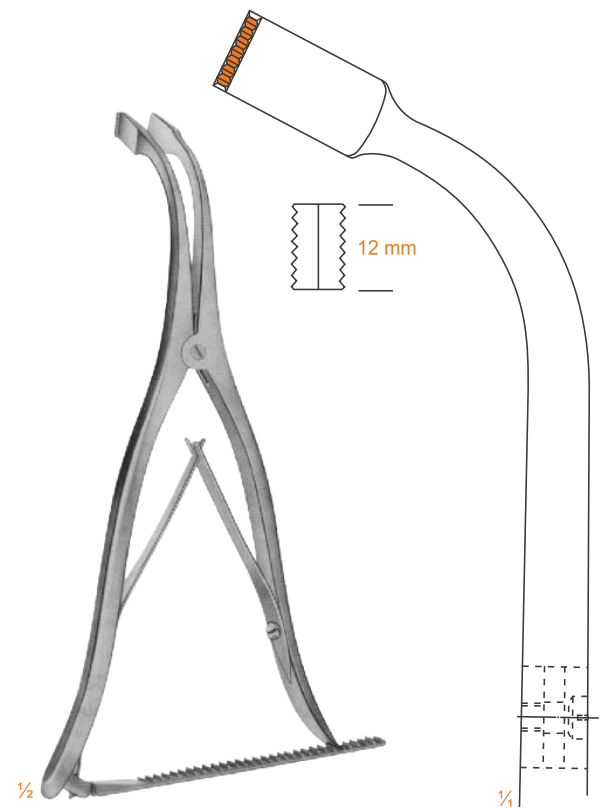
17-508
CLOWARD
155 mm



17-509
CLOWARD
135 mm



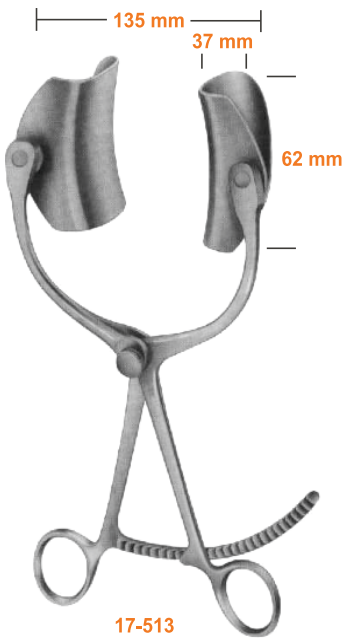
17-510
INGE
170 mm



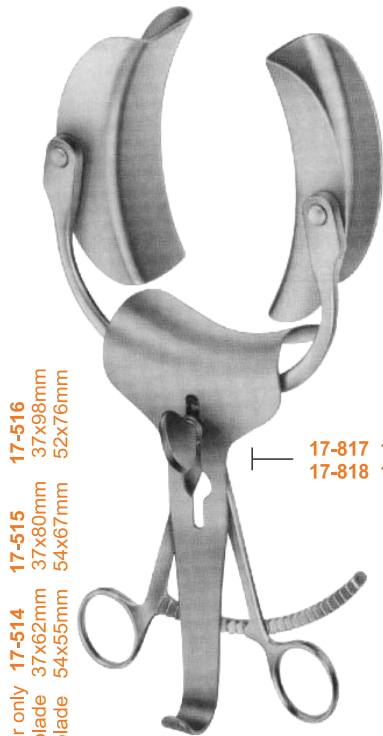
17-511
INGE
275 mm



17-512
BABY-COLLIN
with 2 pair of blades



17-513
COLLIN
complete



17-516
17-515
17-514
Spreader only
Lateral blade
Canter blade

37x98mm
37x80mm
54x67mm
37x62mm
54x55mm

17-514 - 518
COLLIN
complete



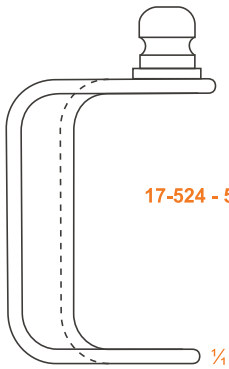
17-519 - 520
RICARD
complete

Spreader only 17-519 17-520
Lateral blade 58x80mm 72x84mm
Canter blade 54x70mm 72x90mm



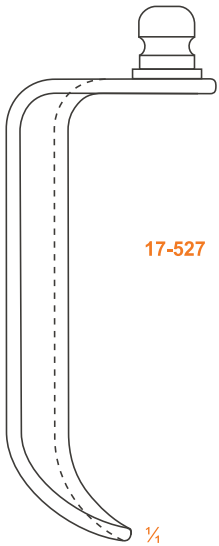
17-521 - 523
HOLZBACH
Complete

17-521 Spreader only
17-522 Lateral blade 59x80mm
17-523 Canter blade 74x82mm



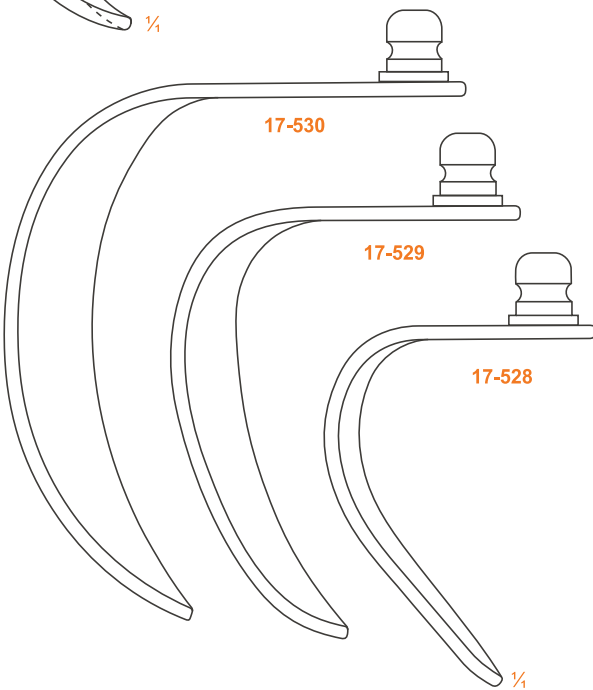
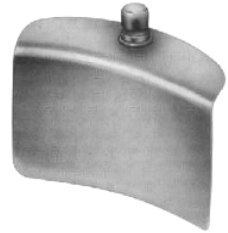
17-524 - 526

Lateral blades only
17-524 37x62 mm
17-525 37x80 mm
17-526 37x98 mm



17-527

17-527 61x80 mm

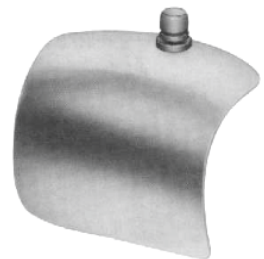


17-530

17-529

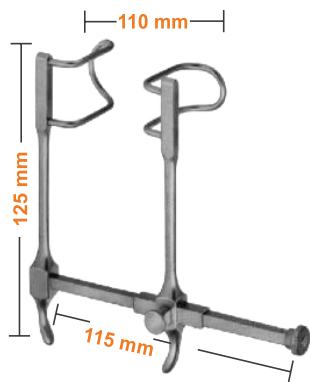
17-528

17-528 48x59 mm
17-529 58x80 mm
17-530 72x84 mm

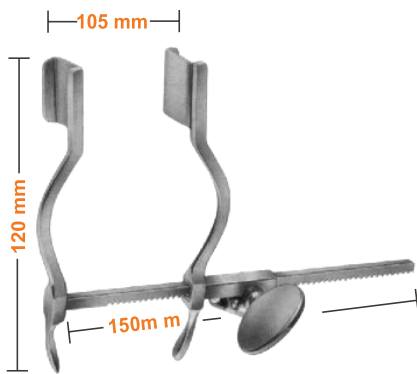


17-531 59x80 mm

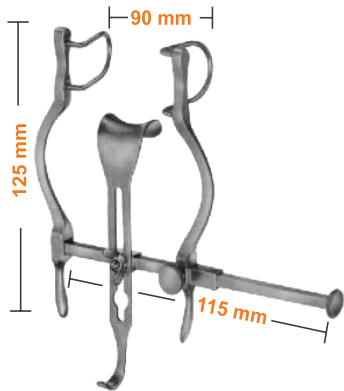




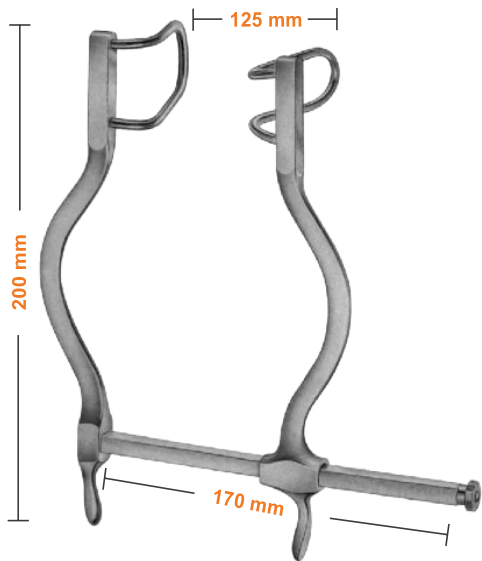
17-532
GOSSET
Blades:38 mm deep



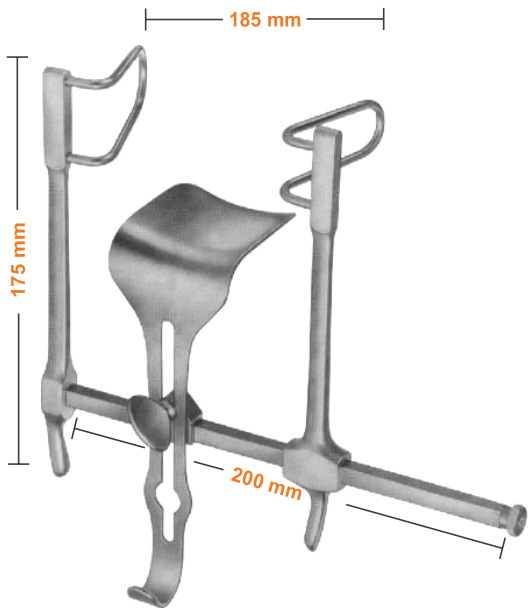
17-533
HERTZLER
Blades 20 X 25 mm



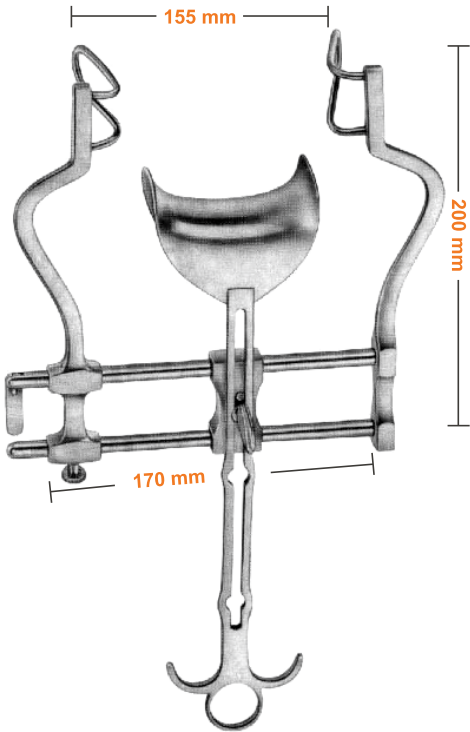
17-534
BALFOUR-BABY
Lateral blades 27 mm deep
Center blade 21x24 mm



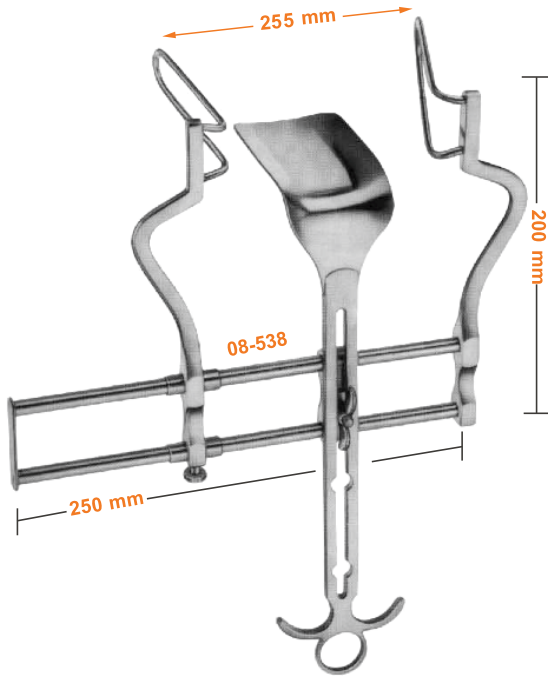
17-535
GOSSET
Blades:55mm deep



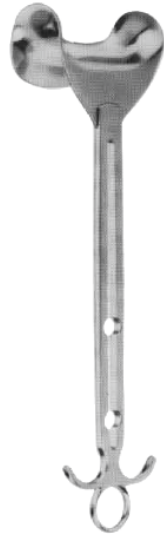
17-536
GOSSET
Lateral blades 58 mm deep
Center blade 59 x 57 mm



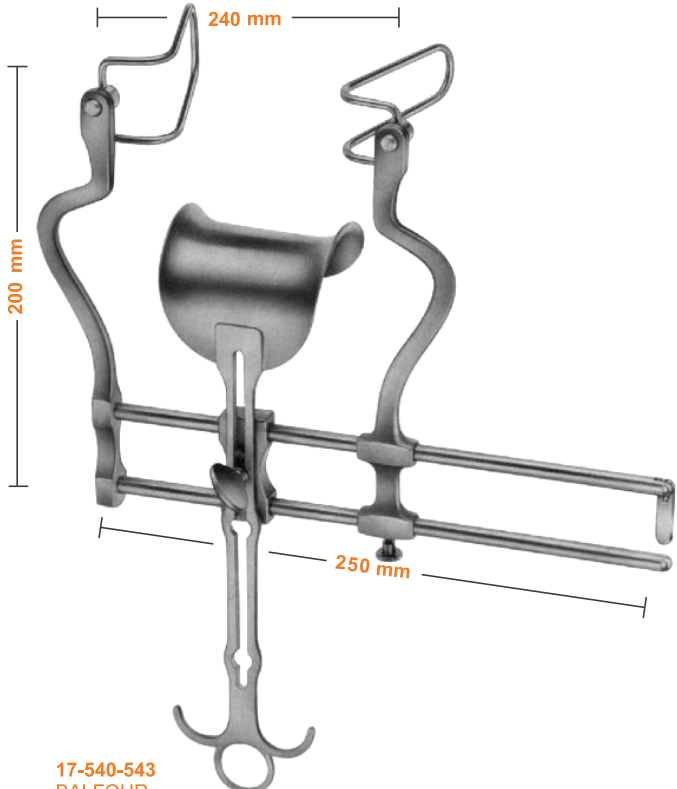
17-537
BALFOUR
Lateral blades 60 mm deep
Center blade 47 x 80 mm



17-538
BALFOUR
Lateral blades 105 mm deep
Center blade 107x 59 mm



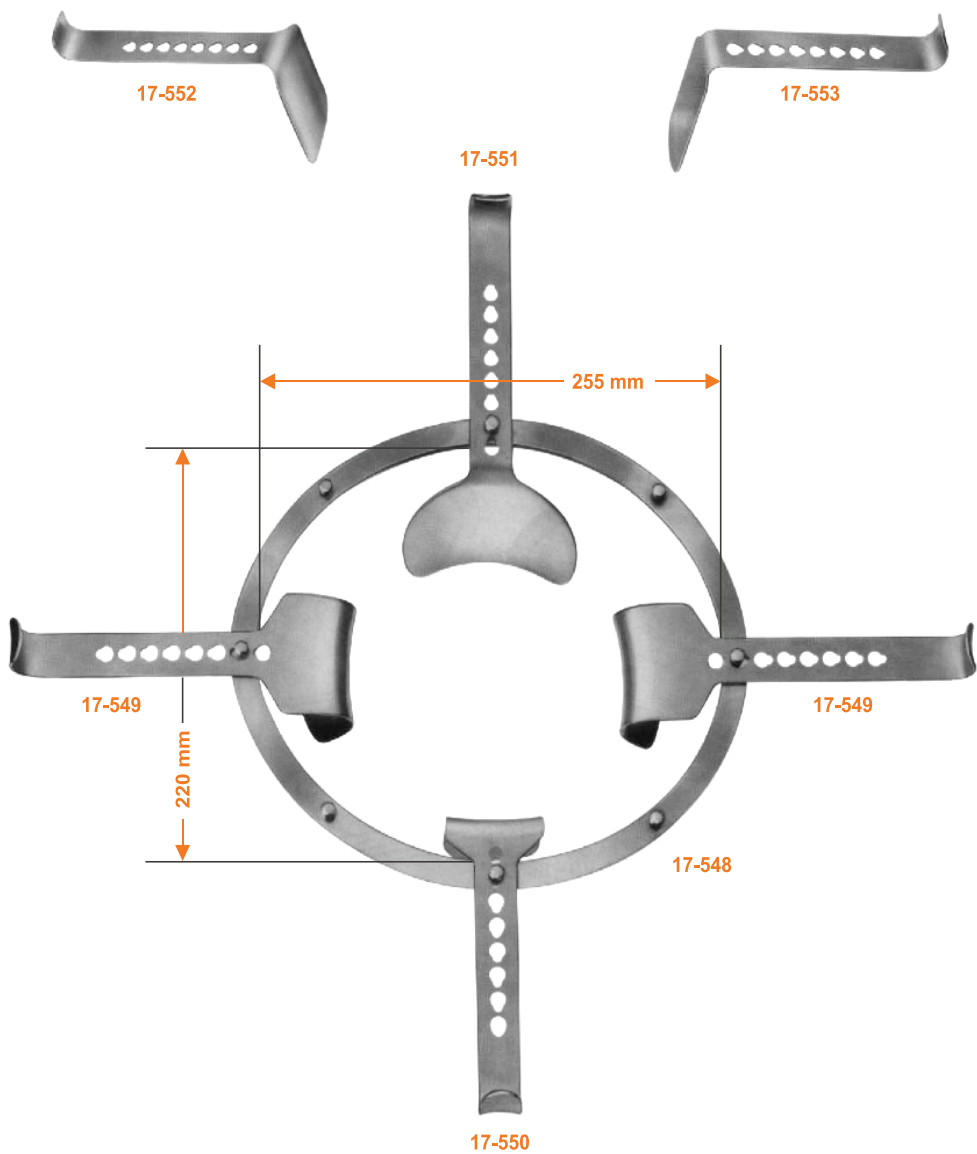
17-539
Center blade only
54x80 mm



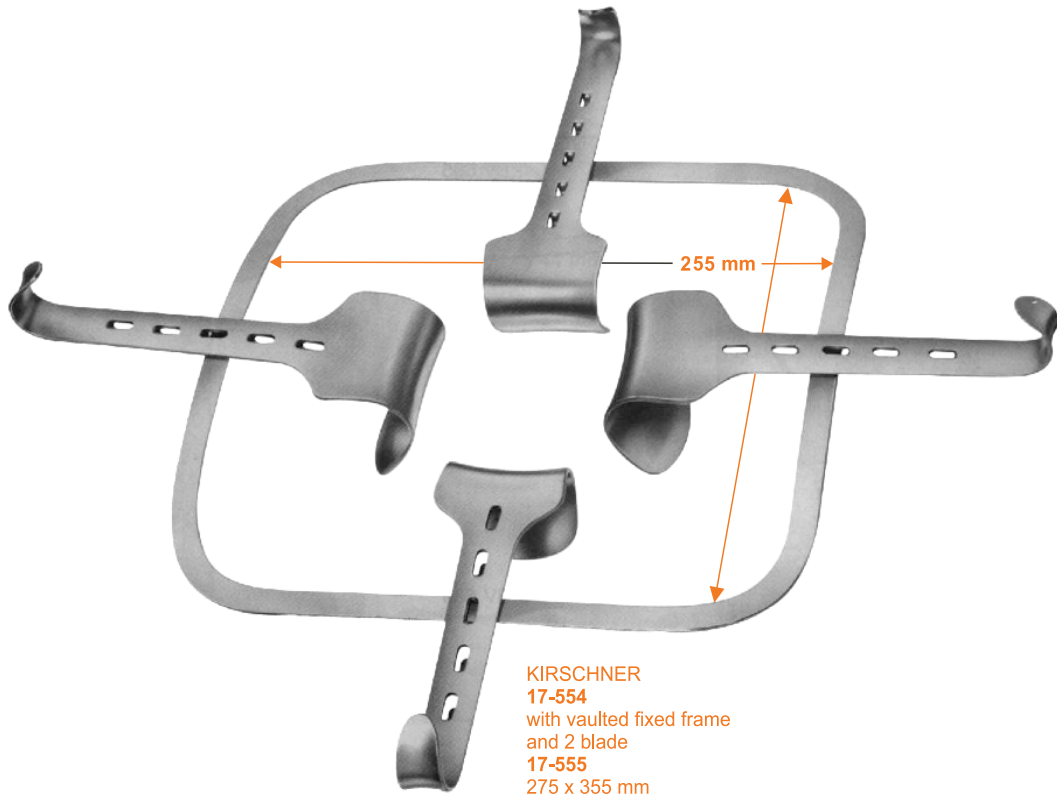
17-540-543
BALFOUR
Spreader only
Lateral blades 50 mm 60 mm 75 mm 90 mm
Center blade 47 x 80 mm 62x76 mm 80x80 mm 80x80 mm



Lateral blades
17-544 50 mm deep
17-545 60 mm deep
17-546 75 mm deep
17-547 90 mm deep



- 17-548 - 17-553**
SEMM
consisting of:
- 17-548** 1 frame 225 x 220 mm
 - 17-549** 2 blades 46 x 64 mm
 - 17-550** 1 blade 53 x 54 mm
(for bladder)
 - 17-551** 1 blade 82 x 97 mm
(for intestine)
 - 17-552** 1 blade 98 x 51 mm
(for intestine)
 - 17-553** 1 blade, narrow
107 x 36 mm



KIRSCHNER
17-554
 with vaulted fixed frame
 and 2 blade
17-555
 275 x 355 mm
 Frame only, over-sized
17-556
 295 x 275 mm
 Frame only



17-557
 KIRSCHNER
 64 x 80 mm



17-558
 KIRSCHNER-BALFOUR
 80x 82 mm



17-559 - 561
 KIRSCHNER
17-559 90x 69mm
17-560 92x 95mm
17-561 78x 58mm



17-562 - 564
 KIRSCHNER
17-562 108x42mm
17-563 91x 55mm
17-564 121x 55mm



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