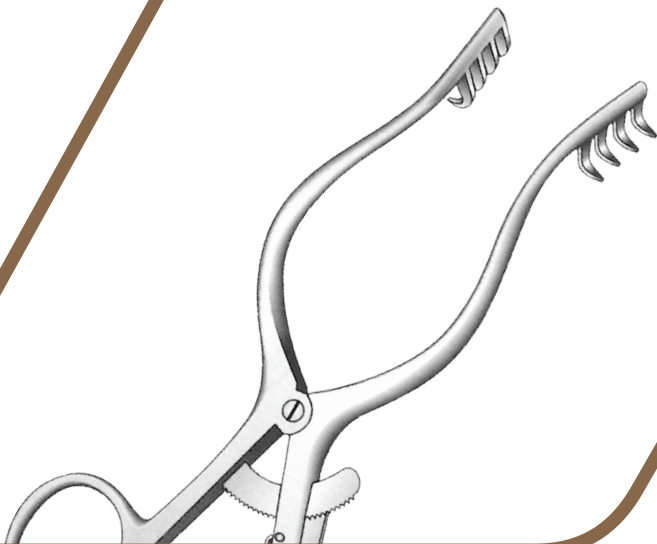




M.W.Hartmann

Retractor



19

19

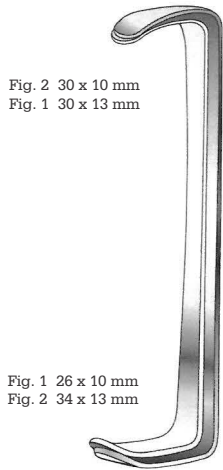


Fig. 2 30 x 10 mm
Fig. 1 30 x 13 mm

Fig. 1 26 x 10 mm
Fig. 2 34 x 13 mm

Farabeuf
MWH-19-001
12 cm / 4¾"
Set of 2

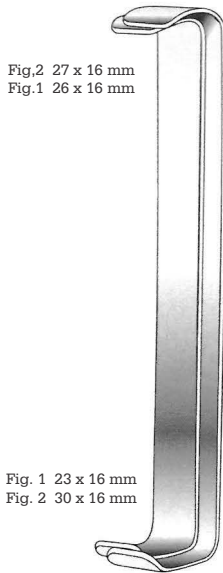


Fig. 2 27 x 16 mm
Fig. 1 26 x 16 mm

Fig. 1 23 x 16 mm
Fig. 2 30 x 16 mm

Farabeuf
MWH-19-002
15 cm / 6"
Set of 2

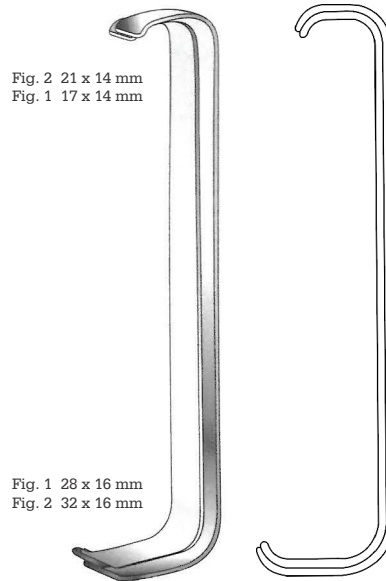
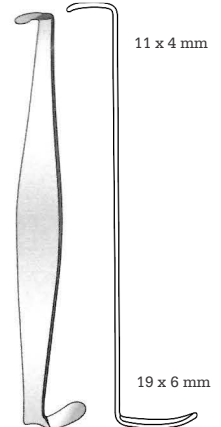


Fig. 2 21 x 14 mm
Fig. 1 17 x 14 mm

Fig. 1 28 x 16 mm
Fig. 2 32 x 16 mm

Collin
MWH-19-008
15 cm / 6"
Set of 2



11 x 4 mm

19 x 6 mm

Crile
MWH-19-010
11 cm / 4¼"

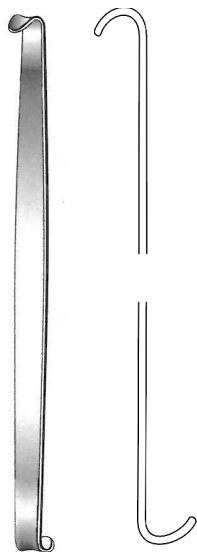
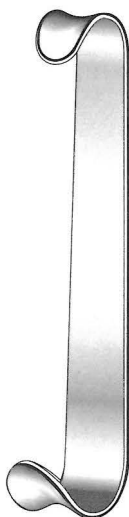


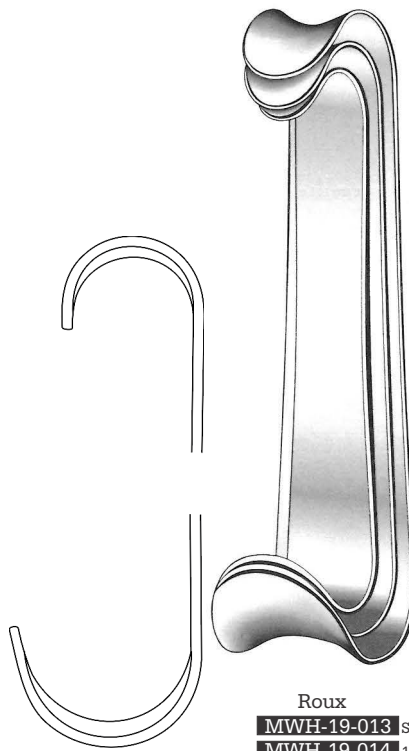
Fig. 2 22 x 15 mm
Fig. 1 19 x 15 mm

Fig. 1 19 x 15 mm
Fig. 2 22 x 15 mm

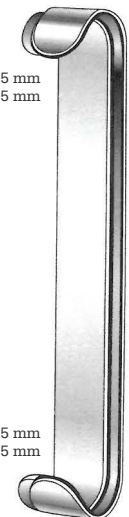
Mini-Roux
MWH-19-011
14 cm / 5½"



Baby-Roux
MWH-19-012
13 cm / 5"



Roux
MWH-19-013 Set of 4
MWH-19-014 14 cm / 5½"
MWH-19-015 15 cm / 6"
MWH-19-016 17 cm / 6¼"
MWH-19-017 18 cm / 7"



Parker
MWH-19-018
Set of 2

Retractors

Retractors
Wundhaken
Separadores

M.W.Hartmann

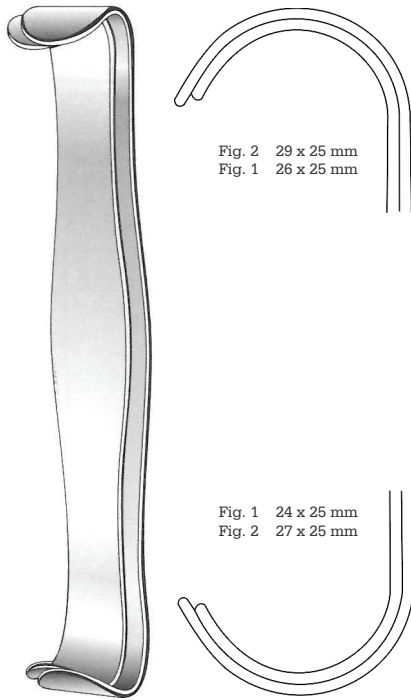


Fig. 2 29 x 25 mm
Fig. 1 26 x 25 mm

Fig. 1 24 x 25 mm
Fig. 2 27 x 25 mm

Parker

MWH-19-019

18 cm / 7"
Set of 2

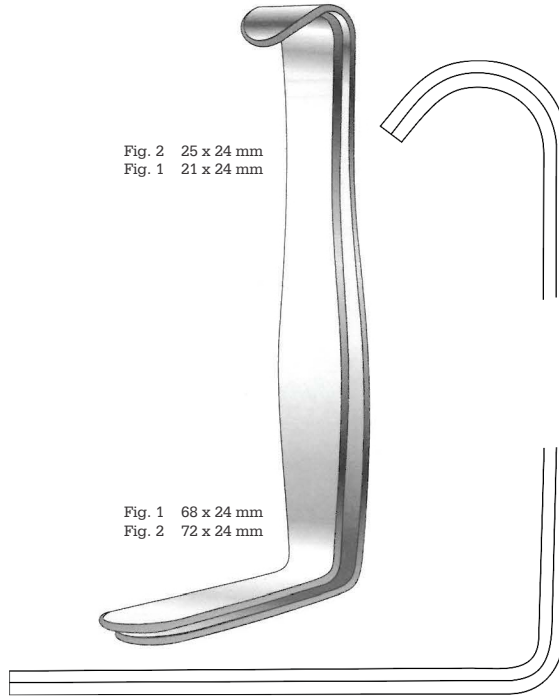


Fig. 2 25 x 24 mm
Fig. 1 21 x 24 mm

Fig. 1 68 x 24 mm
Fig. 2 72 x 24 mm

Parker-Mott

MWH-19-020

16 cm / 6¼"
Set of 2

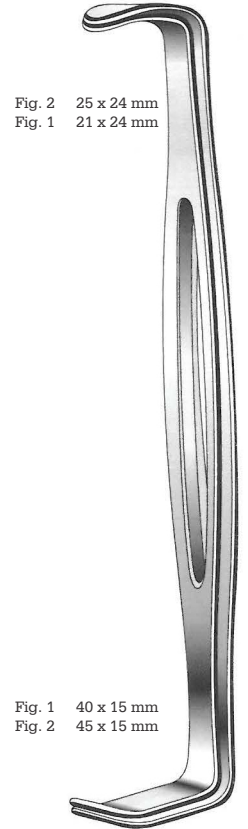


Fig. 2 25 x 24 mm
Fig. 1 21 x 24 mm

Fig. 1 40 x 15 mm
Fig. 2 45 x 15 mm

U.S. Army

MWH-19-024

21 cm / 8¼"
Set of 2



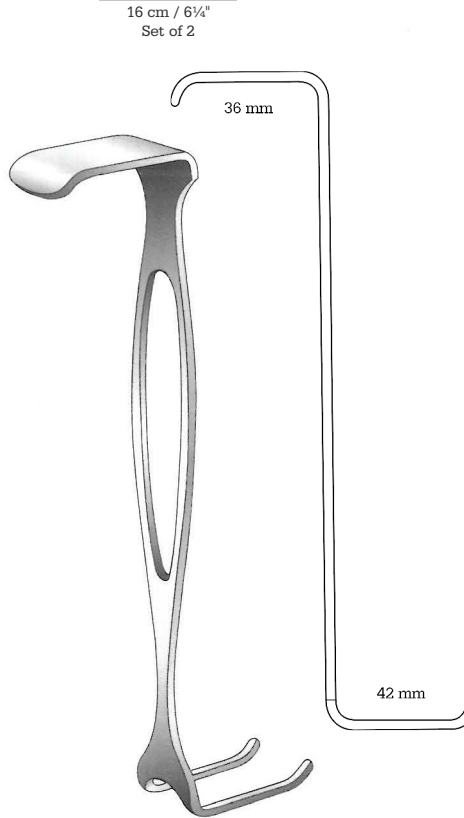
Fig. 2 47 x 13 mm
Fig. 1 41 x 13 mm

Fig. 1 37 x 25 mm
Fig. 2 42 x 25 mm

Mathieu

MWH-19-028

20 cm / 8"
Set of 2



36 mm

42 mm

Czerny

MWH-19-029

17.5 cm / 7"



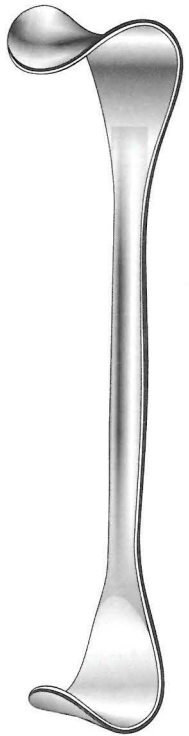
Canny Ryoll

MWH-19-030 16 cm / 6¼"

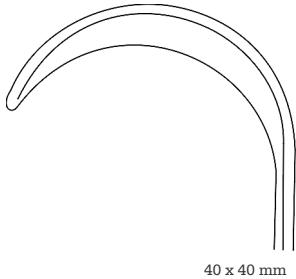
MWH-19-031 20 cm / 8"

MWH-19-032 25 cm / 10"

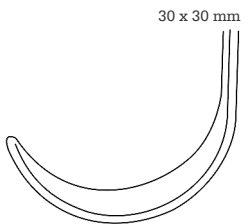
MWH-19-033 30 cm / 12"



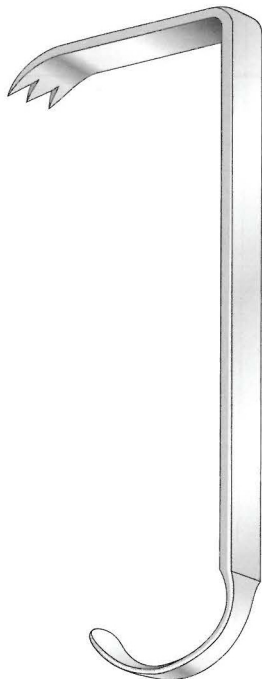
Goelet
MWH-19-034
19 cm / 7½"



40 x 40 mm



30 x 30 mm

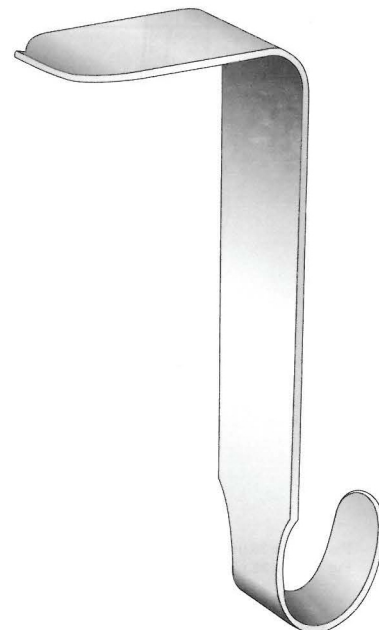


Hibbs
MWH-19-037
22 cm / 8¾"
25 x 75 mm blade



MWH-19-035 115 x 27 mm
MWH-19-036 115 x 22 mm

Simon
28 cm / 11"



Taylor
MWH-19-038 18 cm / 7", 75 x 30 mm blade
MWH-19-039 20 cm / 8", 100 x 30 mm blade
Spinal retractor

Retractors

Retractors
Wundhaken
Separadores

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Deaver
MWH-19-040
18 cm / 7"
19 mm

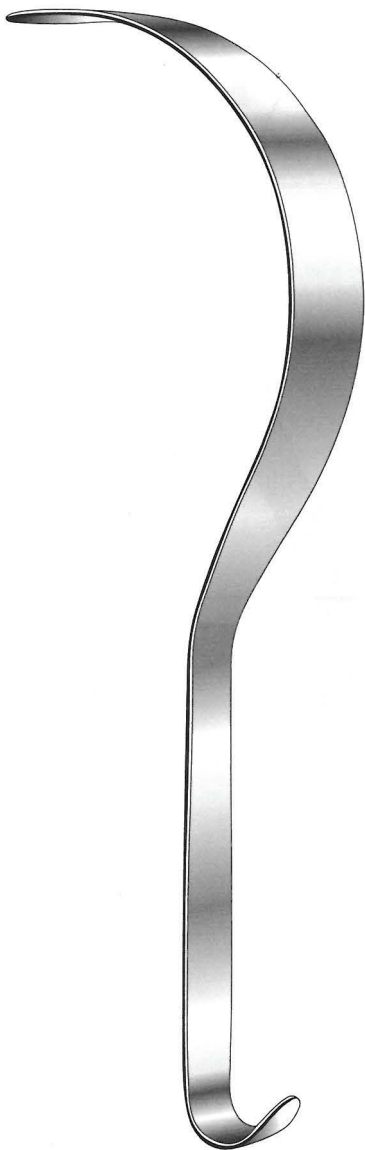
Deaver
MWH-19-041
21.5 cm / 8½"
22 mm

Deaver
MWH-19-042
23 cm / 9"
25 mm

Deaver
MWH-19-043
30 cm / 12"
25 mm

Deaver
MWH-19-044
33 cm / 13"
25 mm

Deaver
MWH-19-045
36 cm / 14"
25 mm



Deaver
MWH-19-046
30 cm / 12"
38 mm



Deaver
MWH-19-047
30 cm / 12"
50 mm

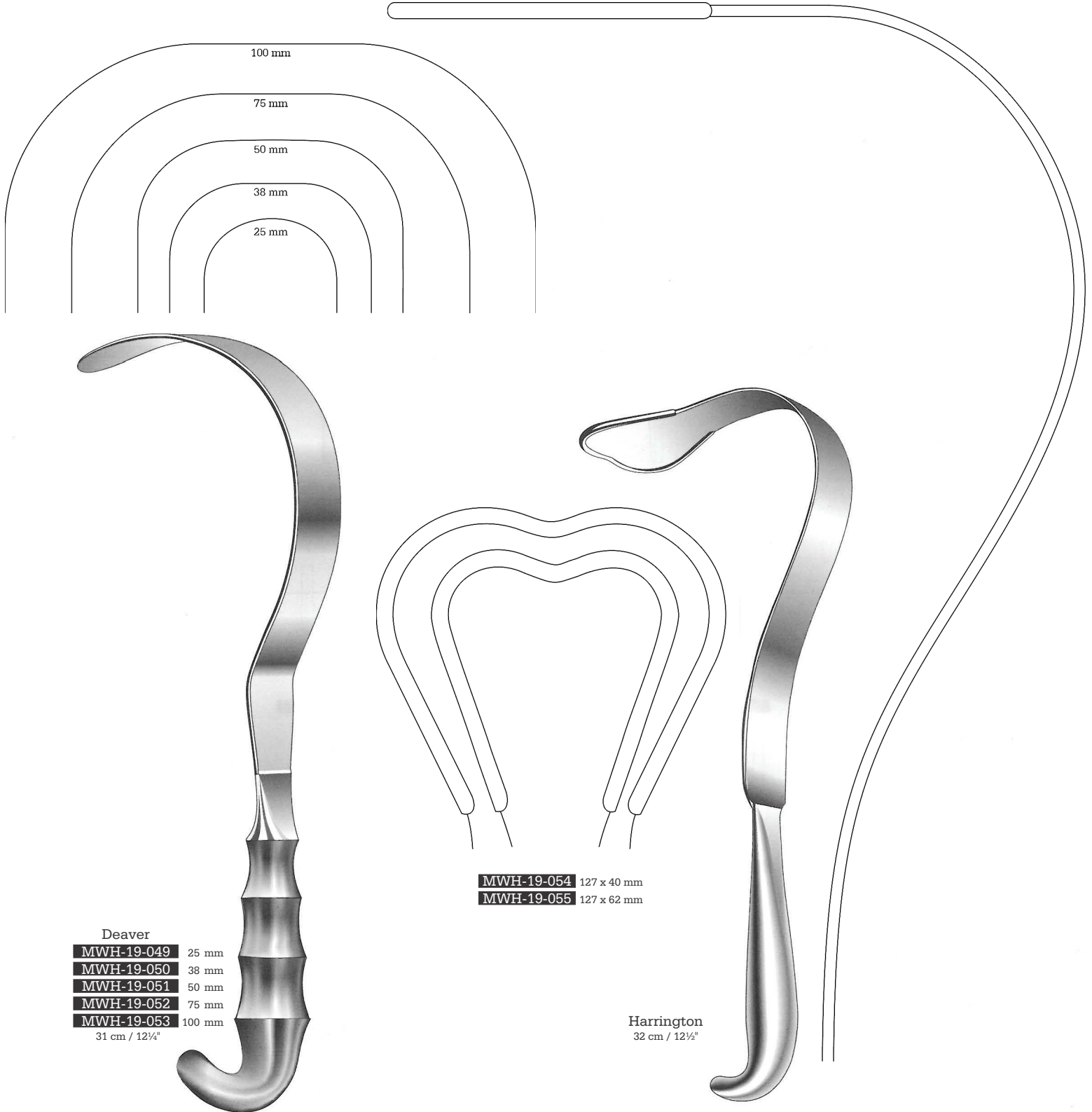


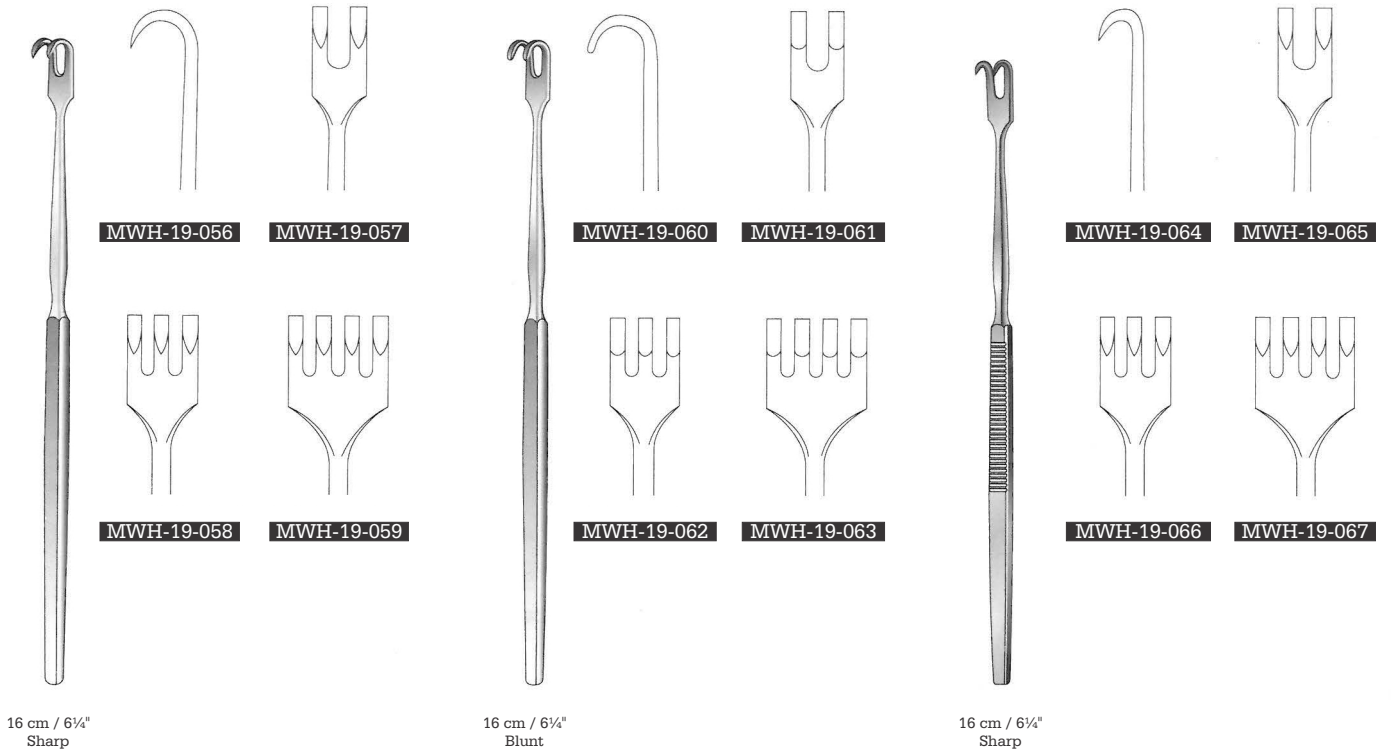
Deaver
MWH-19-048
30 cm / 12"
75 mm

Retractors

Retractors
Wundhaken
Separadores

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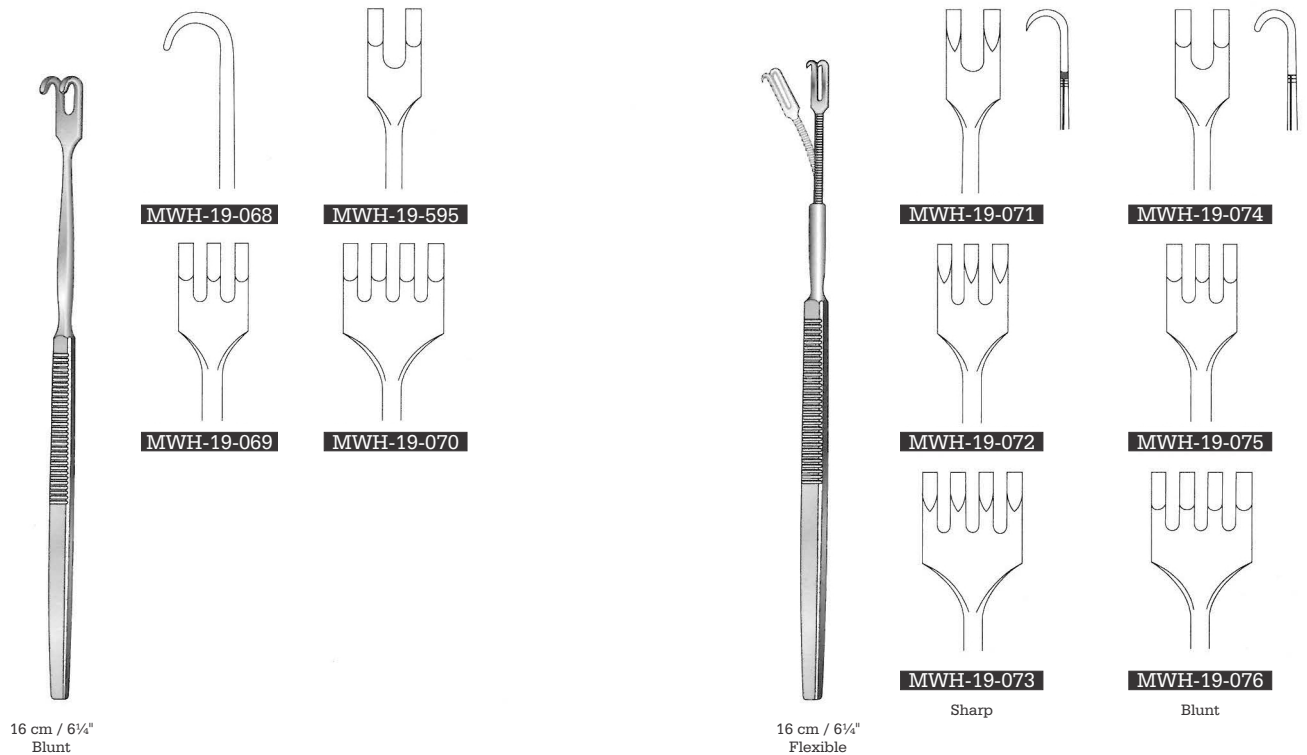




16 cm / 6 1/4"
Sharp

16 cm / 6 1/4"
Blunt

16 cm / 6 1/4"
Sharp



16 cm / 6 1/4"
Blunt

16 cm / 6 1/4"
Flexible

Sharp

Blunt

Retractors

Micro Hooklets, Skin Hooks
 Mikrohakchen, Hauthakchen
 Micro Ganchitos, Ganchitos de piet

M.W.Hartmann



16 cm / 6¼"
 Sharp



MWH-19-077
 Fig. 1



MWH-19-078
 Fig. 2



MWH-19-079
 Fig. 3



MWH-19-080
 Fig. 4



Graefe
 16 cm / 6¼"



MWH-19-081
 Sharp



MWH-19-082
 Blunt



O'Connor
MWH-19-083
 16 cm / 6¼"
 Sharp



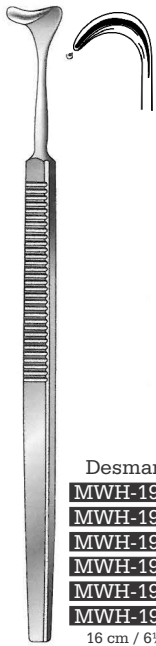
Guthrie
 16 cm / 6¼"
 Sharp



MWH-19-084
 1.5 mm

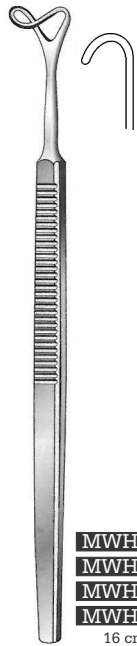


MWH-19-085
 2 mm

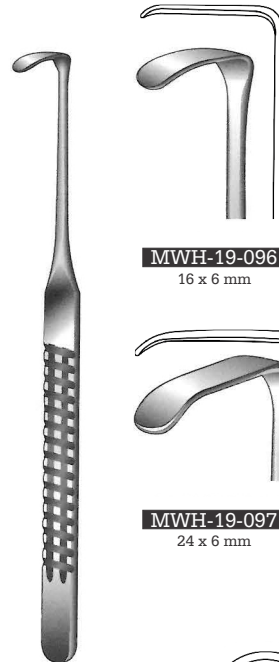


Desmarres

- MWH-19-086** 8 mm
 - MWH-19-087** 10 mm
 - MWH-19-088** 12 mm
 - MWH-19-089** 14 mm
 - MWH-19-090** 16 mm
 - MWH-19-091** 18 mm
- 16 cm / 6 1/4"



- MWH-19-092** 12 mm
 - MWH-19-093** 14 mm
 - MWH-19-094** 16 mm
 - MWH-19-095** 18 mm
- 16 cm / 6 1/4"



Langenbeck-Green
16 cm / 6 1/4"

MWH-19-096
16 x 6 mm

MWH-19-097
24 x 6 mm

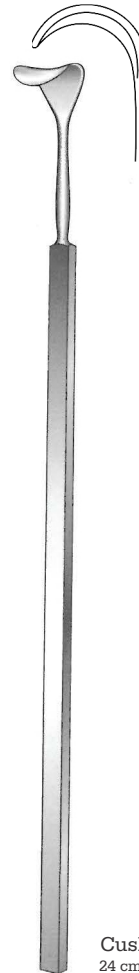
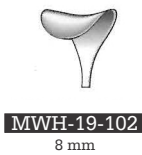


Mini-Langenbeck

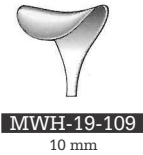
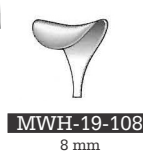
- MWH-19-098** 10 x 6 mm
 - MWH-19-099** 17 x 5 mm
 - MWH-19-100** 20 x 6 mm
 - MWH-19-101** 22 x 8 mm
- 16 cm / 6 1/4"



Cushing
20 cm / 8"



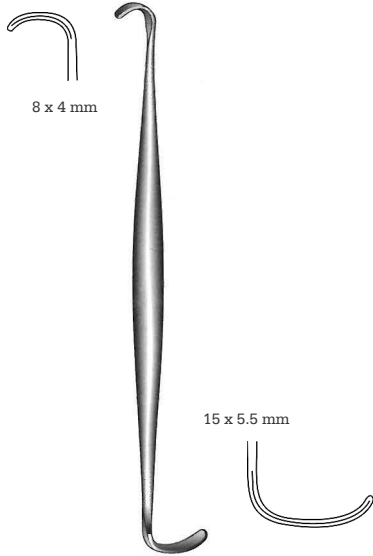
Cushing
24 cm / 9 1/2"



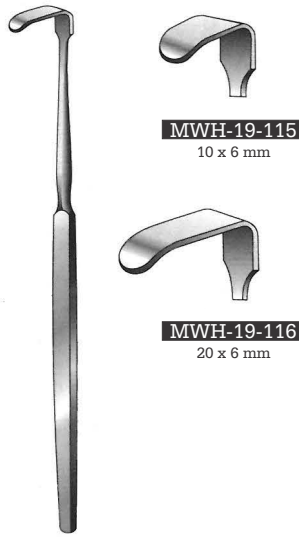
Retractors

Hooklets
Wundhakchen
Ganchitos

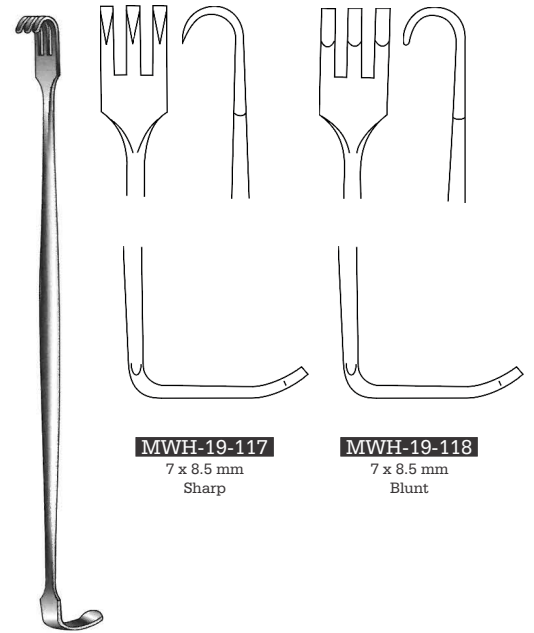
M.W.Hartmann



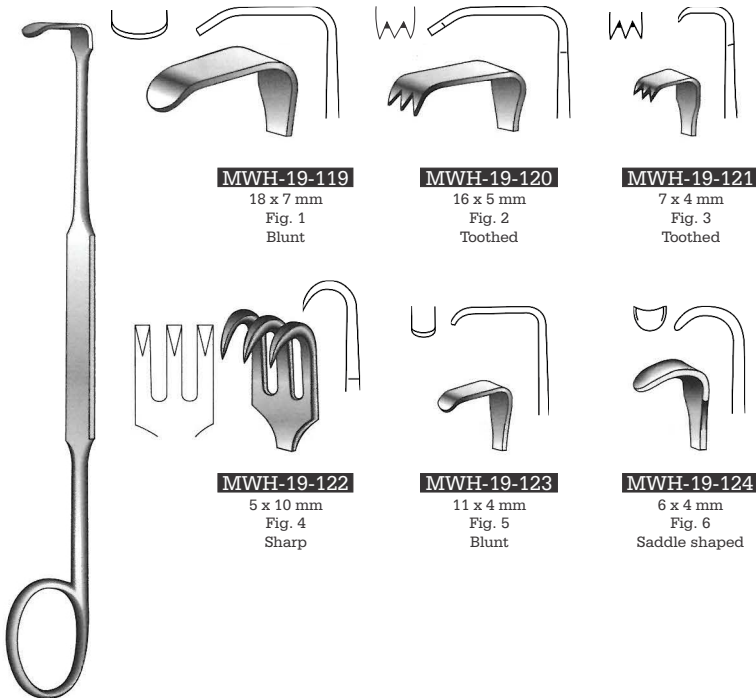
Ragnell-Davis
MWH-19-114
14 cm / 5½"



Senn-Green
15 cm / 6"



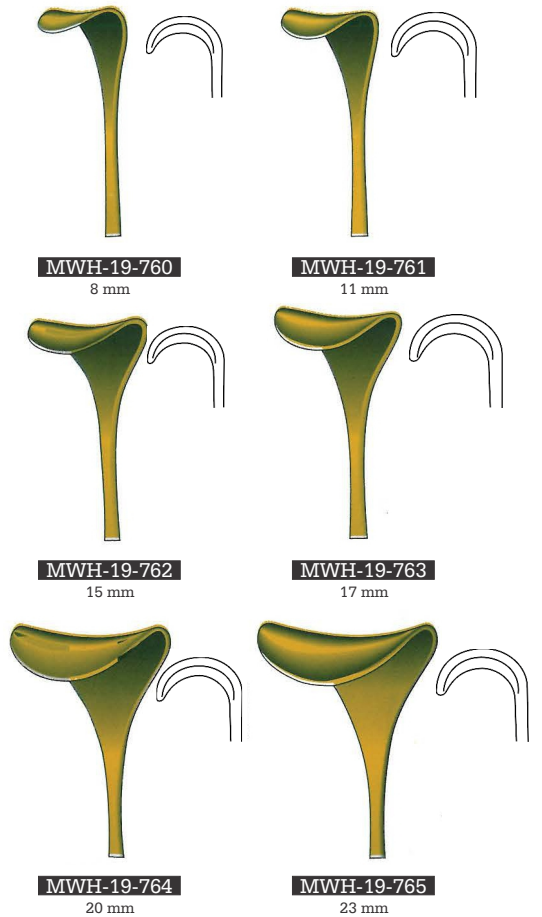
Senn-Miller
16 cm / 6¼"

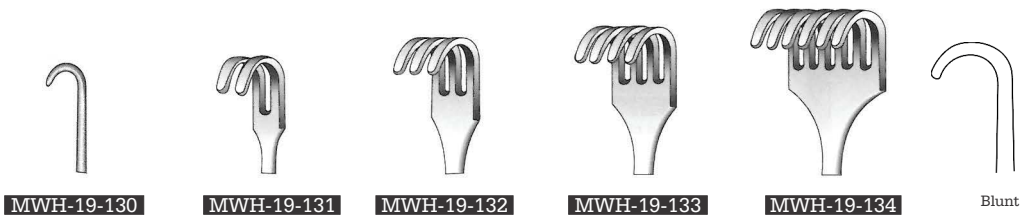
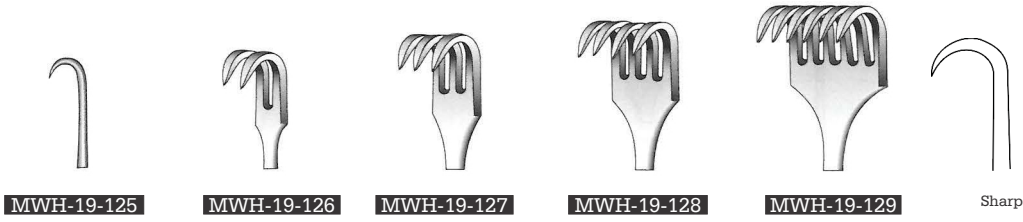


Meyerding
18 cm / 7"



Gil-Vernet
24 cm / 9½"
Flexible shaft

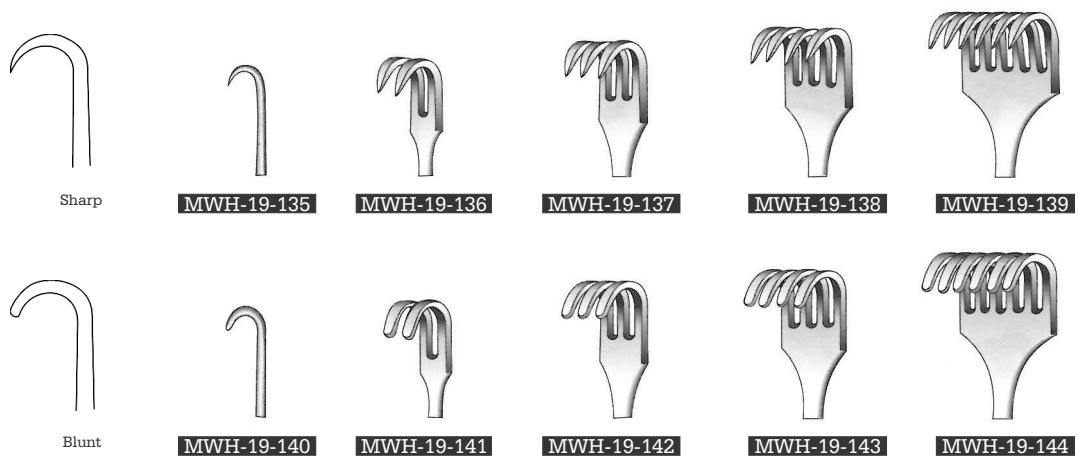




Volkmann
21.5 cm / 8½"



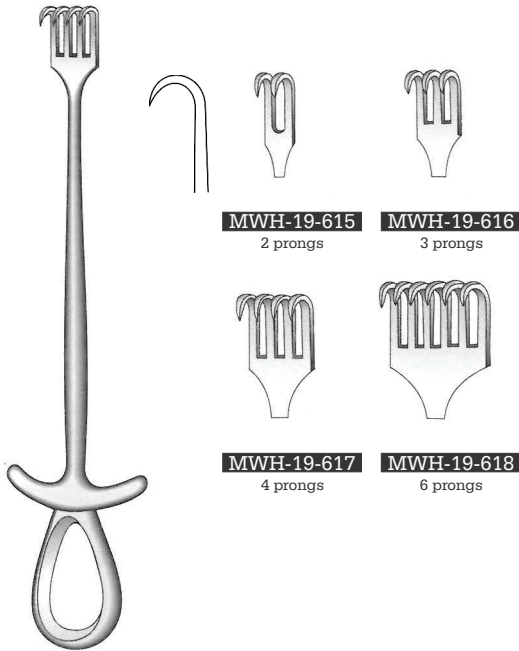
Volkmann
23 cm / 9"



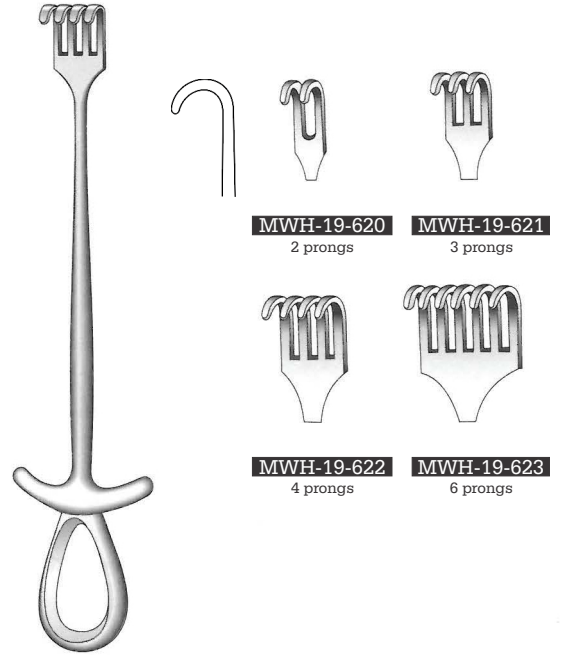
Retractors

Retractors
Wundhaken
Separadores

M.W.Hartmann



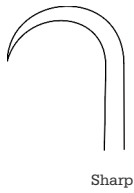
Murphy
19 cm / 7½"
Sharp



Murphy
19 cm / 7½"
Blunt



Kocher
22 cm / 8¾"



MWH-19-145



MWH-19-146



MWH-19-147



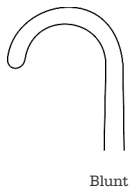
MWH-19-148



MWH-19-149



MWH-19-150



MWH-19-151



MWH-19-152



MWH-19-153



MWH-19-154



MWH-19-155



MWH-19-156



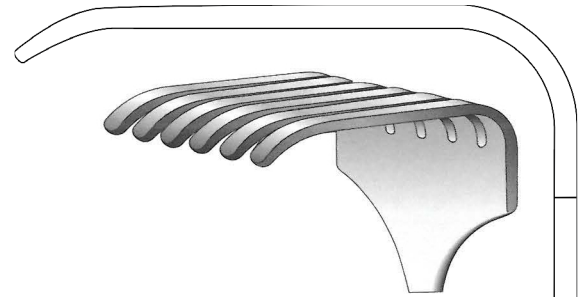
Koerte
MWH-19-157
 40 x 30 mm
 Sharp



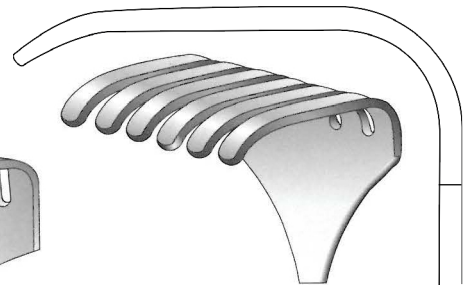
Koerte
MWH-19-158
 23.5 cm / 9 1/4"
 40 x 30 mm
 blunt



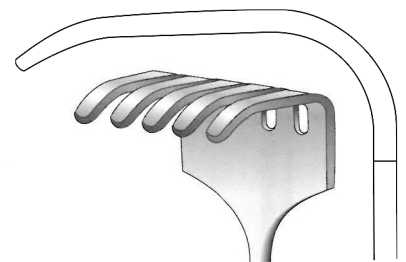
Israel
 25 cm / 10"



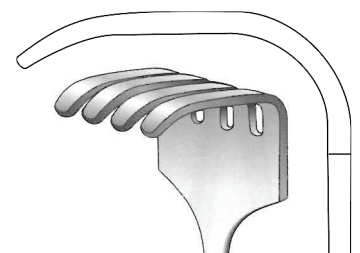
MWH-19-162
 70 x 70 mm



MWH-19-161
 50 x 60 mm



MWH-19-160
 45 x 50 mm

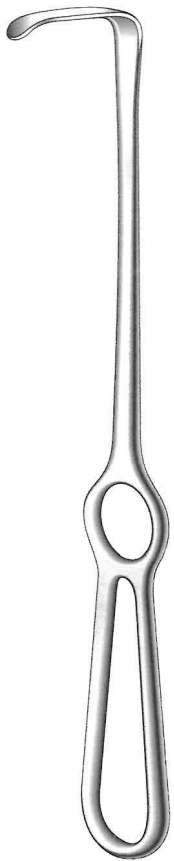


MWH-19-159
 40 x 40 mm

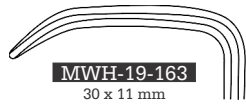
Retractors

Retractors
Wundhaken
Separadores

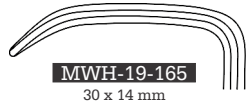
M.W.Hartmann



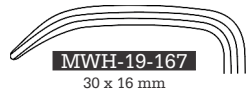
Langenbeck
21 cm / 8¼"



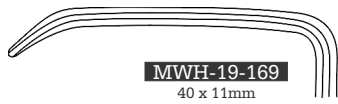
MWH-19-163
30 x 11 mm



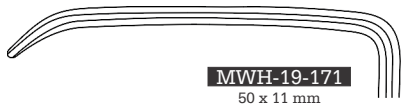
MWH-19-165
30 x 14 mm



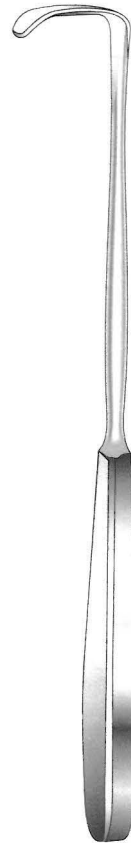
MWH-19-167
30 x 16 mm



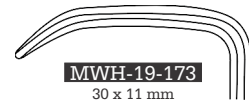
MWH-19-169
40 x 11mm



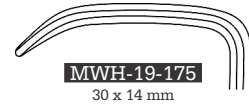
MWH-19-171
50 x 11 mm



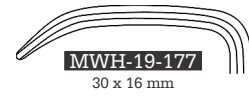
Langenbeck
22 cm / 8½"



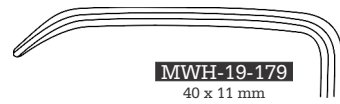
MWH-19-173
30 x 11 mm



MWH-19-175
30 x 14 mm



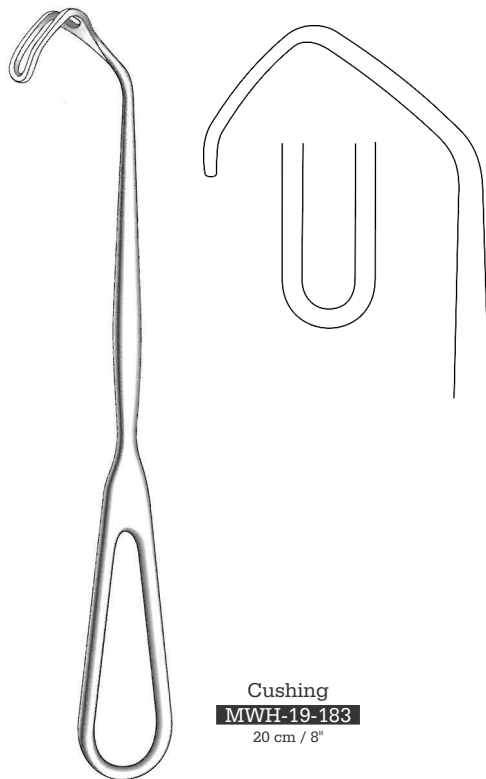
MWH-19-177
30 x 16 mm



MWH-19-179
40 x 11 mm



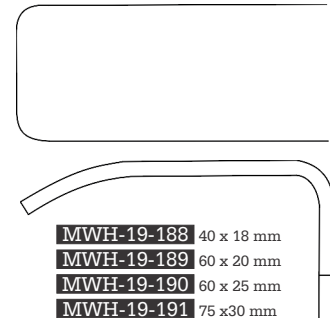
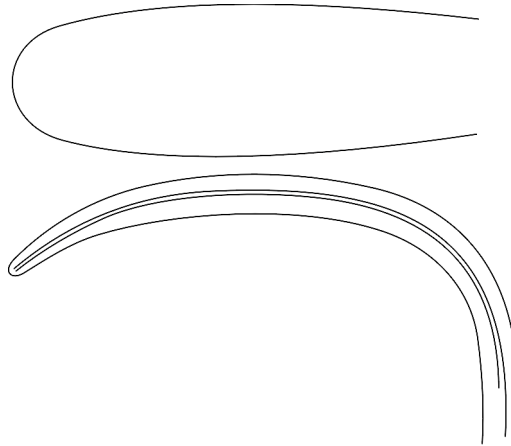
MWH-19-181
50 x 11 mm



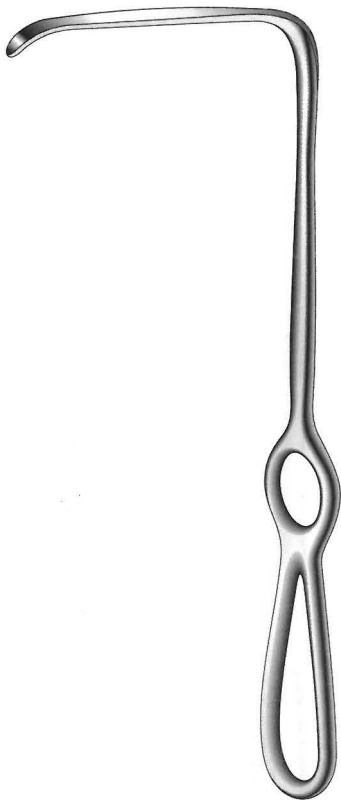
Cushing
MWH-19-183
20 cm / 8"



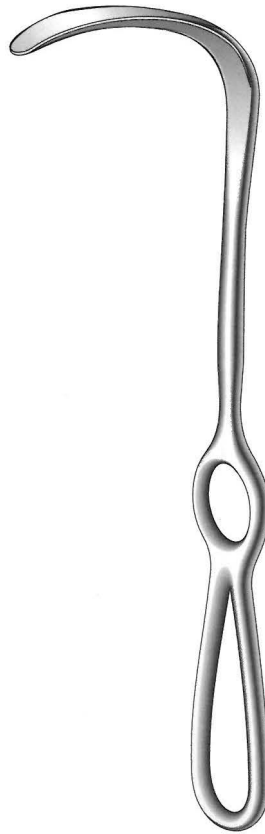
Langenbeck
MWH-19-184 22 x 6 mm
MWH-19-185 44 x 13 mm



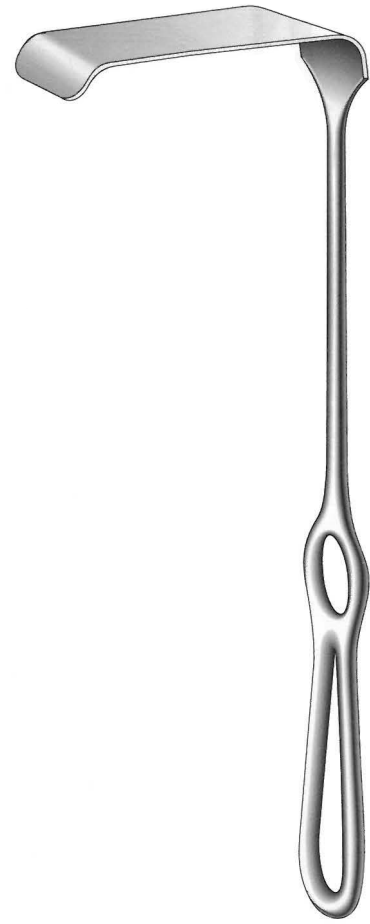
- MWH-19-188** 40 x 18 mm
- MWH-19-189** 60 x 20 mm
- MWH-19-190** 60 x 25 mm
- MWH-19-191** 75 x 30 mm
- MWH-19-192** 75 x 40 mm



Langenbeck
MWH-19-186
21 cm / 8¼"
85 x 15 mm



Langenbeck
MWH-19-187
21 cm / 8¼"
60 x 20 mm

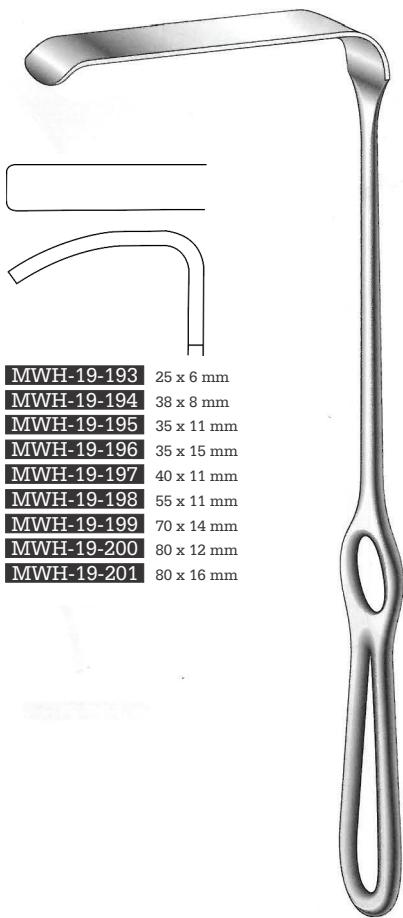


Kocher
23 cm / 9"

Retractors

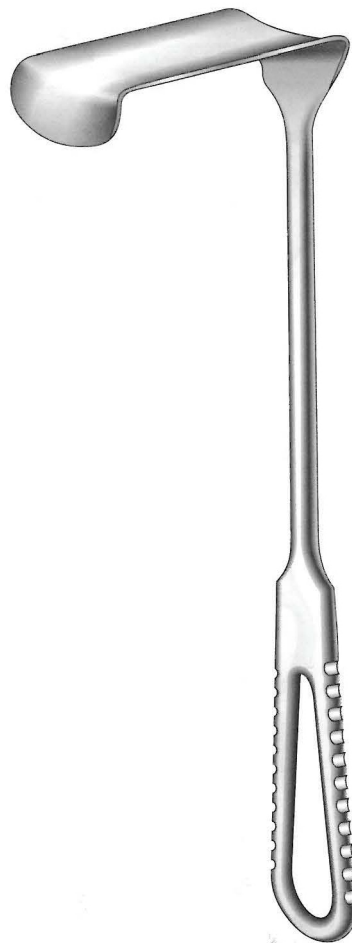
Retractors
Wundhaken
Separadores

M.W.Hartmann

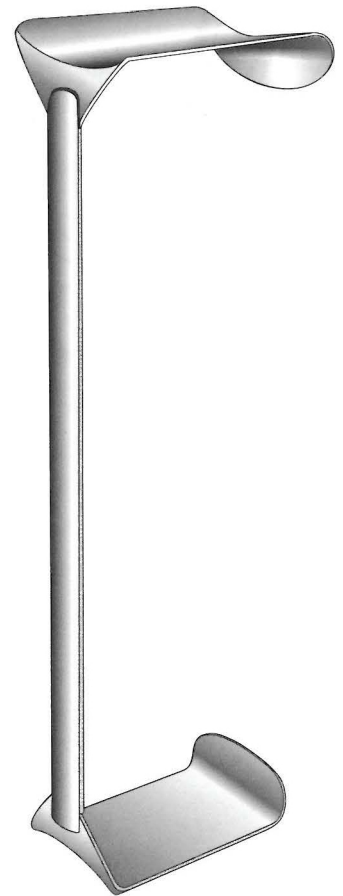


- MWH-19-193** 25 x 6 mm
- MWH-19-194** 38 x 8 mm
- MWH-19-195** 35 x 11 mm
- MWH-19-196** 35 x 15 mm
- MWH-19-197** 40 x 11 mm
- MWH-19-198** 55 x 11 mm
- MWH-19-199** 70 x 14 mm
- MWH-19-200** 80 x 12 mm
- MWH-19-201** 80 x 16 mm

Kocher-Langenbeck
21.5 cm / 8½"



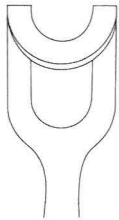
- Morris**
- MWH-19-202** 40 mm
 - MWH-19-203** 50 mm
 - MWH-19-204** 65 mm



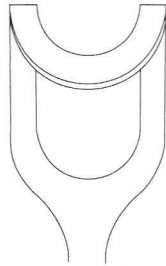
- Morris**
- MWH-19-205** 30 x 40 mm
 - MWH-19-206** 45 x 50 mm
 - MWH-19-207** 55 x 60 mm



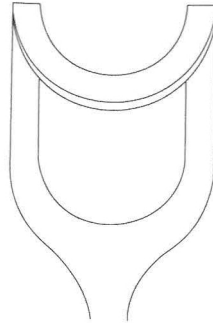
Middeldorpf



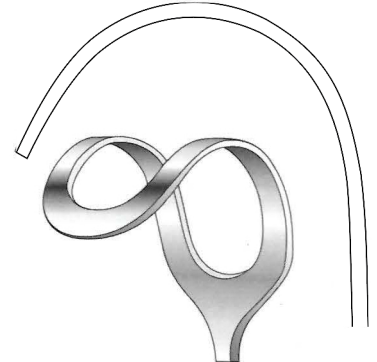
MWH-19-210
21.5 cm / 8½"
14 x 17 mm



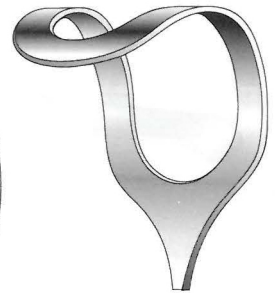
MWH-19-211
22 cm / 8¾"
20 x 22 mm



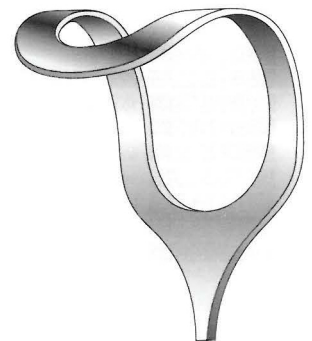
MWH-19-212
23.5 cm / 9½"
26 x 30 mm



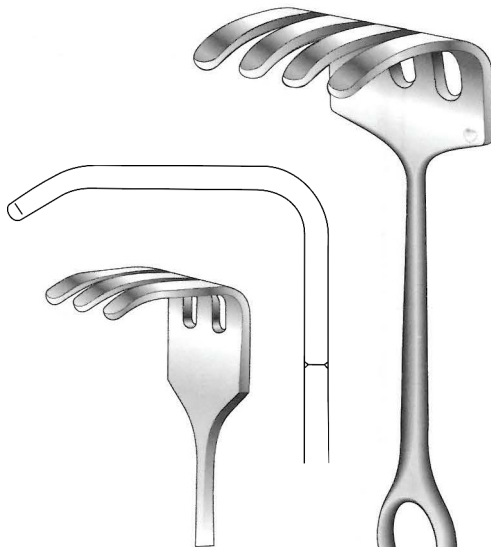
MWH-19-213
45 x 45 mm



MWH-19-214
45 x 50 mm



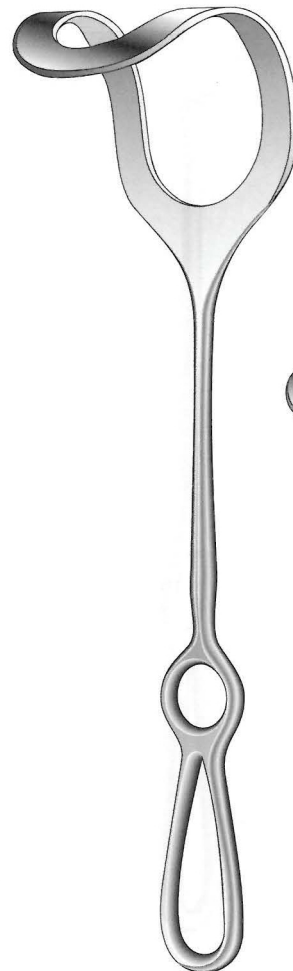
MWH-19-215
55 x 70 mm



Ollier
MWH-19-209
22.5 cm / 9"
36 x 30 mm



Ollier
MWH-19-208
22.5 cm / 9"
36 x 60 mm

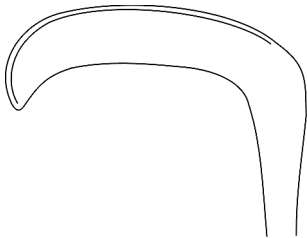


Middeldorpf
25.5 cm / 10"

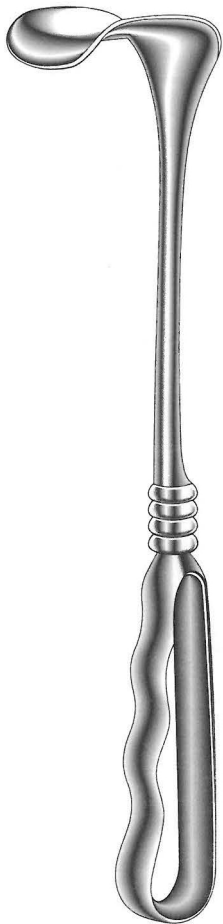
Retractors

Retractors
Wundhaken
Separadores

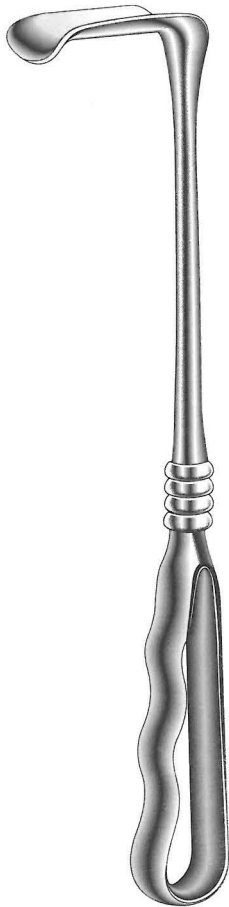
M.W.Hartmann



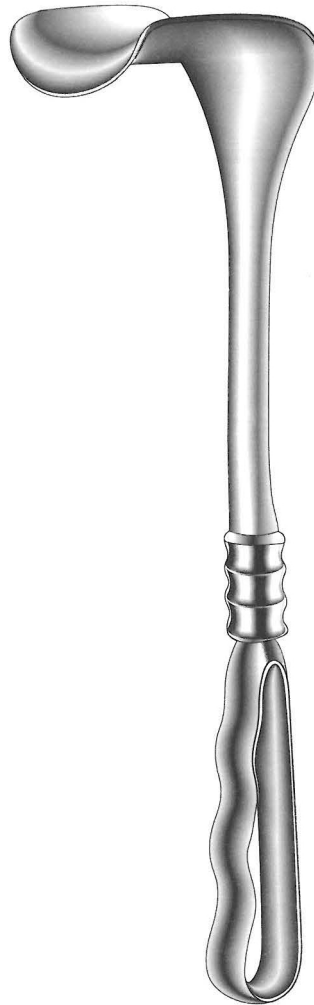
MWH-19-216 28 x 20 mm
MWH-19-217 36 x 28 mm
MWH-19-218 44 x 38 mm



Richardson
24 cm / 9½"



Richardson
MWH-19-219
24 cm / 9½"
52 x 22 mm



Kelly
MWH-19-720 50 x 35 mm
MWH-19-220 65 x 50 mm
MWH-19-722 75 x 65 mm
26 cm / 10¼"

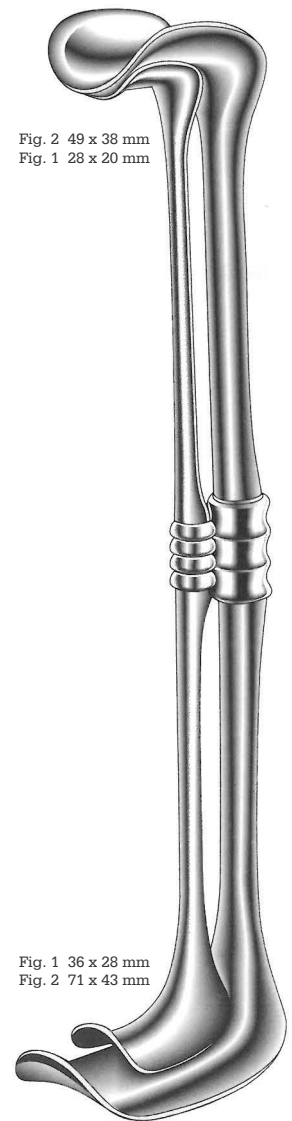


Fig. 2 49 x 38 mm
Fig. 1 28 x 20 mm

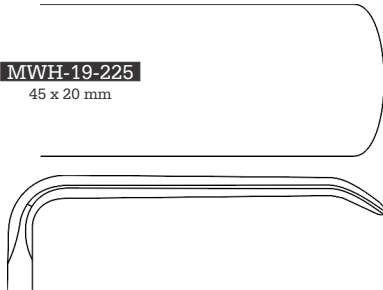
Fig. 1 36 x 28 mm
Fig. 2 71 x 43 mm

Richardson-Eastman
MWH-19-221 26 cm / 10¼"
MWH-19-222 28 cm / 11"
MWH-19-800 Set of 2, Fig. 1 & Fig. 2

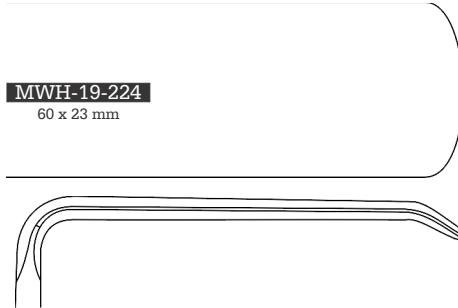


Saurbruch

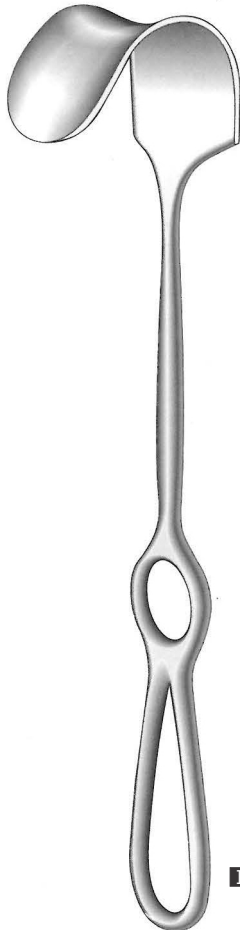
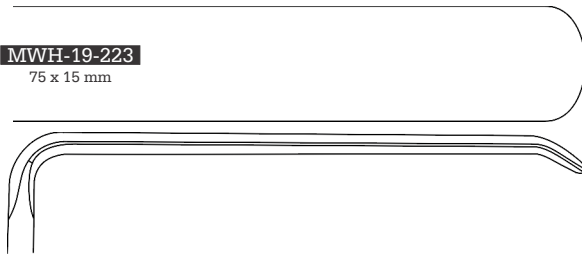
MWH-19-225
45 x 20 mm



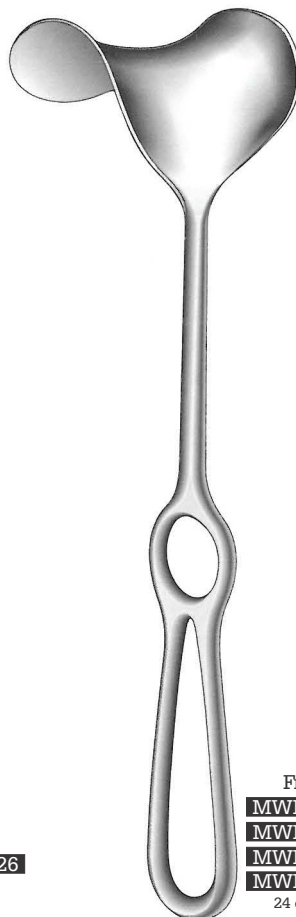
MWH-19-224
60 x 23 mm



MWH-19-223
75 x 15 mm



Fritsch
MWH-19-226
24 cm / 9½"
40 x 40 mm



Fritsch
MWH-19-227 45 x 40 mm
MWH-19-228 45 x 50 mm
MWH-19-229 45 x 60 mm
MWH-19-230 45 x 75 mm
24 cm / 9½"

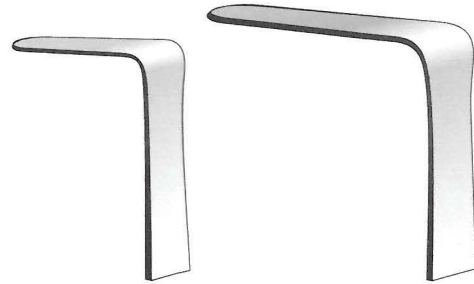


Doyen
MWH-19-231
25 cm / 10"
50 x 85 mm

Retractors

Retractors
Wundhaken
Separadores

M.W.Hartmann



MWH-19-236
45 x 25 mm

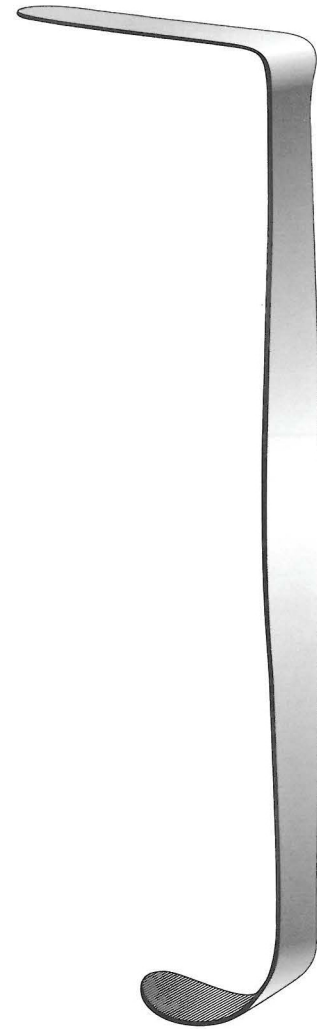
MWH-19-235
73 x 28 mm



Tuffier
MWH-19-232
23 cm / 9"
64 x 60 mm



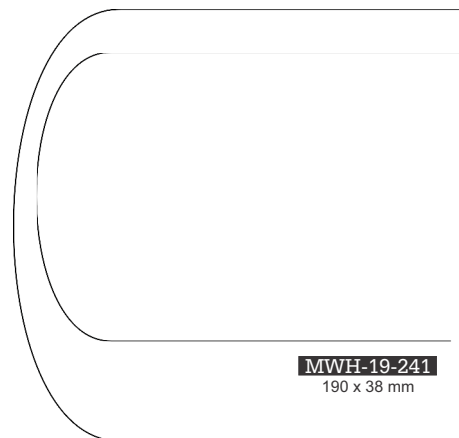
Koerte
MWH-19-233
28 cm / 11"
120 x 47 mm
Rigid



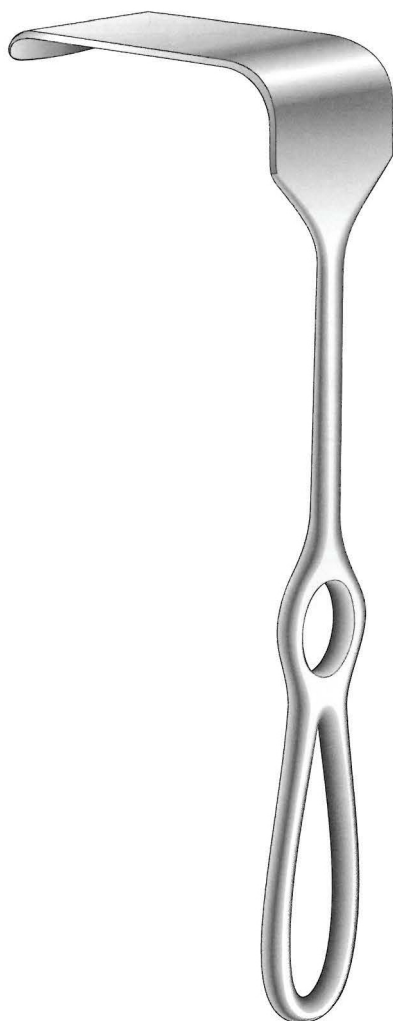
Heaney
MWH-19-234
27 cm / 10¾"
82 x 28 mm



MWH-19-241
190 x 38 mm



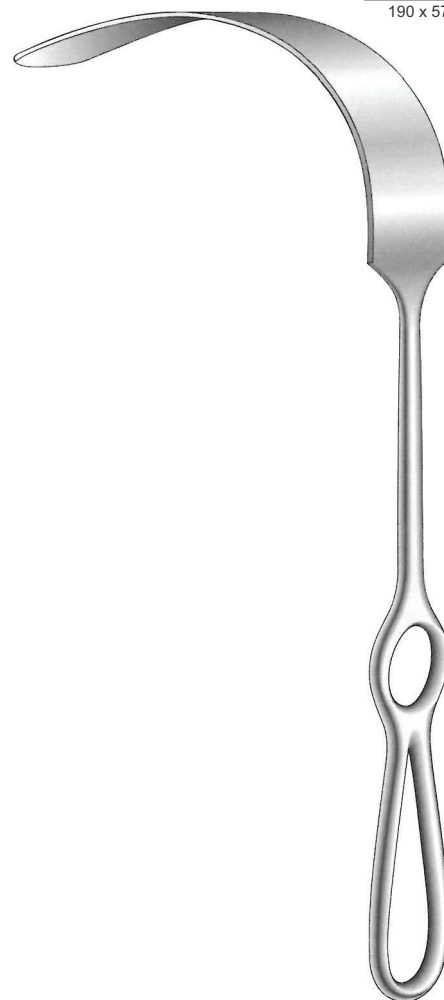
MWH-19-242
190 x 57 mm



Mikulicz
MWH-19-237
26 cm / 10¼"
90 x 50 mm



Mikulicz
MWH-19-238 95 x 35 mm
MWH-19-239 120 x 50 mm
MWH-19-240 150 x 50 mm
26 cm / 10¼"



Kelly
27 cm / 10½"

Retractors

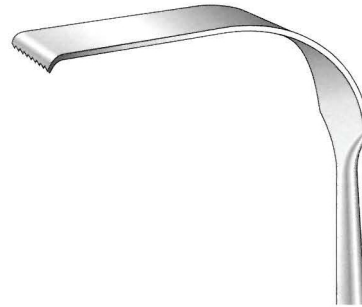
Retractors
Wundhaken
Separadores

M.W.Hartmann



Meyerding
For deep surgery

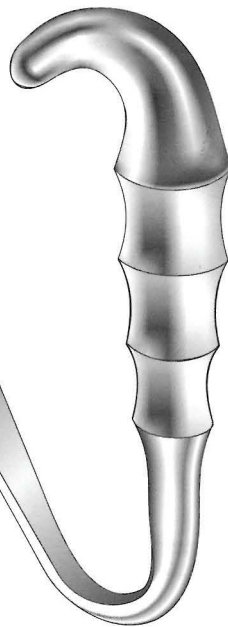
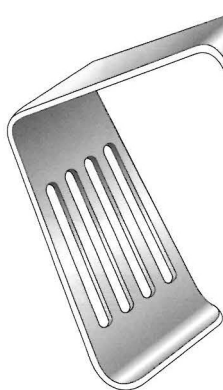
MWH-19-245
25.5 cm / 10"
89 x 50 mm



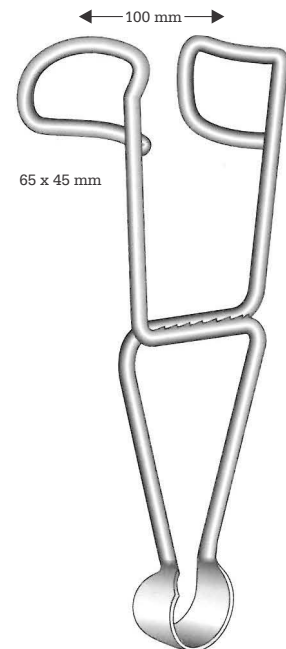
MWH-19-244
23 cm / 9"
76 x 25 mm



MWH-19-243
21 cm / 8 1/4"
52 x 16 mm



Davidson
MWH-19-246 75 x 50 mm
MWH-19-626 75 x 90 mm
16 cm / 6 1/4"
Scapula retractor



65 x 45 mm

Dartigues
MWH-19-247





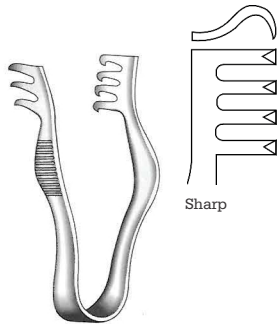
Throkson

MWH-19-630 40 x 170 mm
MWH-19-631 50 x 170 mm
MWH-19-632 65 x 170 mm
33 cm / 13"

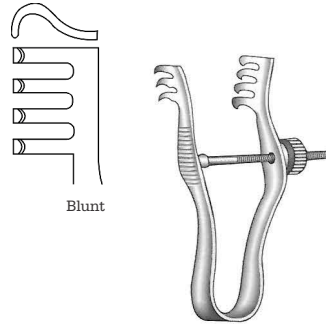


Throkson

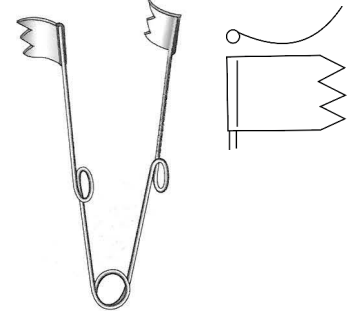
MWH-19-640 40 x 170 mm
MWH-19-641 50 x 170 mm
MWH-19-642 65 x 170 mm
33 cm / 13"



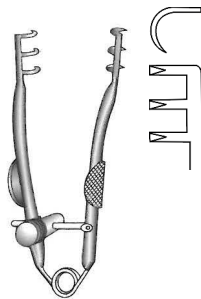
Finsen
MWH-19-259 Sharp
MWH-19-260 Blunt
 7 cm / 2¾"



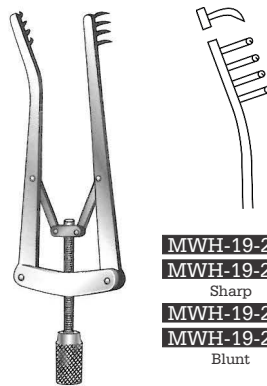
Finsen
MWH-19-262 Sharp
MWH-19-263 Blunt
 7 cm / 2¾"
 With adjusting screw



MWH-19-252
 8 cm / 3¼"



Buckley
MWH-19-251
 6 cm / 2½"



Alm

MWH-19-253 7 cm / 2¾"
MWH-19-254 10 cm / 4"
 Sharp
MWH-19-255 7 cm / 2¾"
MWH-19-256 10 cm / 4"
 Blunt

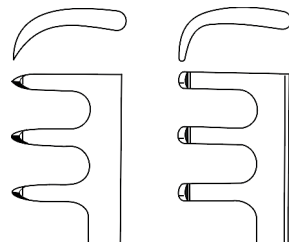


10 cm / 4"

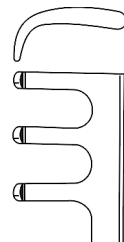
MWH-19-258
 Sharp
MWH-19-458
 Blunt



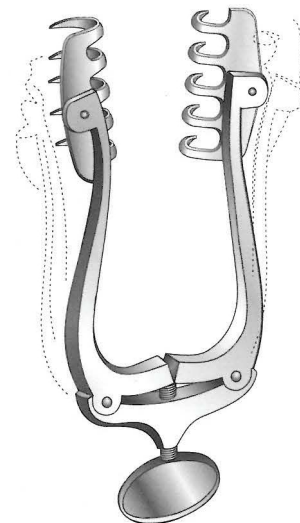
Jansen
 10 cm / 4"



MWH-19-264
 Sharp



MWH-19-265
 Blunt

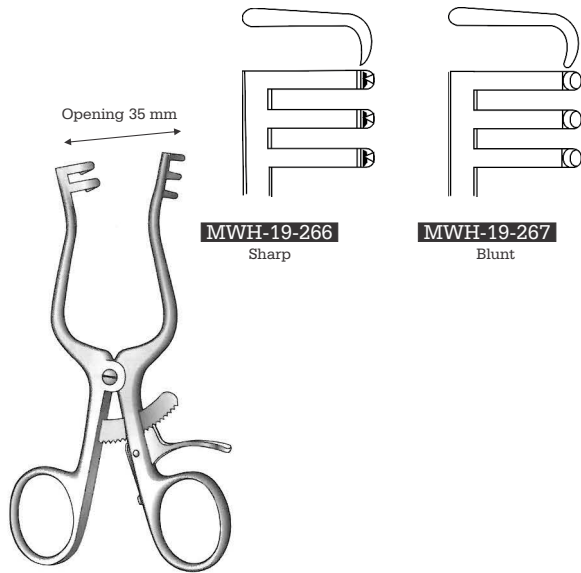


Jansen-Wagner
MWH-19-257
 10 cm / 4"

Retractors

Retractors
Wundhaken
Separadores

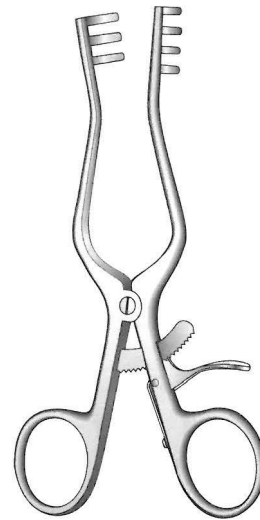
M.W.Hartmann



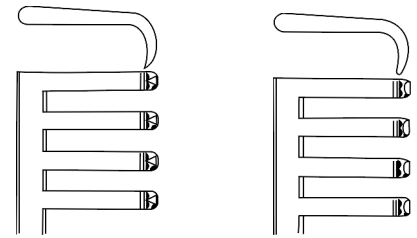
MWH-19-266
Sharp

MWH-19-267
Blunt

Weitlaner
10.5 cm / 4 1/4"
2:3 Teeth



Weitlaner
3:4 Teeth



MWH-19-268 14 cm / 5 1/2"

MWH-19-270 16.5 cm / 6 1/2"

MWH-19-271 18 cm / 7"

MWH-19-272 20 cm / 8"

MWH-19-273 24.5 cm / 9 1/2"

Sharp

MWH-19-468

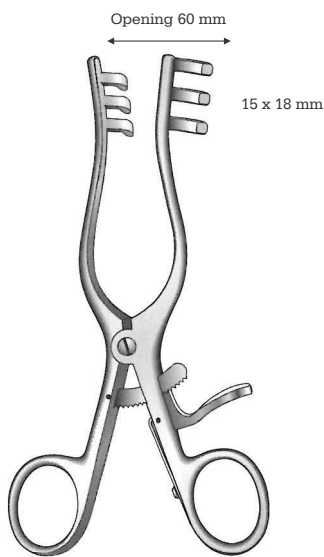
MWH-19-470

MWH-19-471

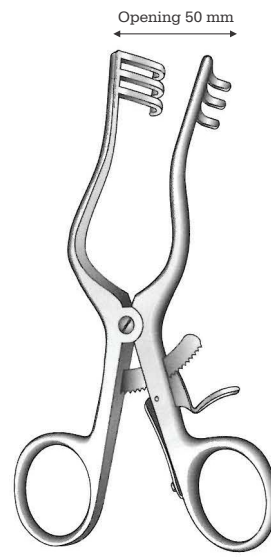
MWH-19-472

MWH-19-473

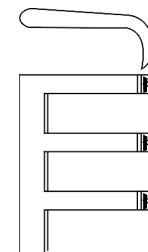
Blunt



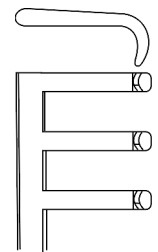
West
MWH-19-274
13 cm / 5 1/4"
3:3 Teeth



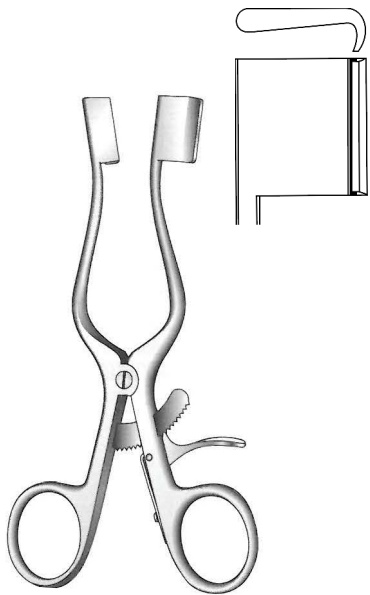
Weitlaner-Wullstein
14 cm / 5 1/2"
3:3 Teeth



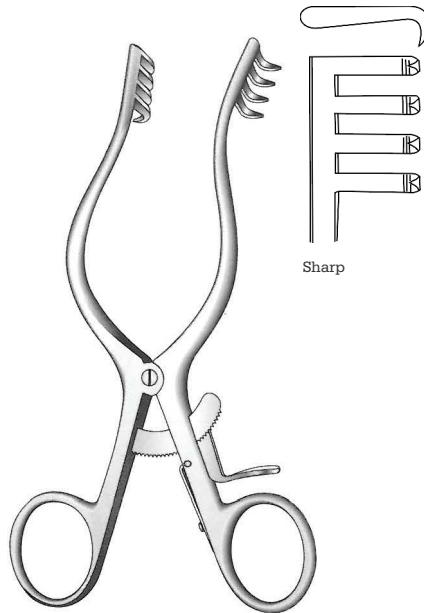
MWH-19-275
Sharp



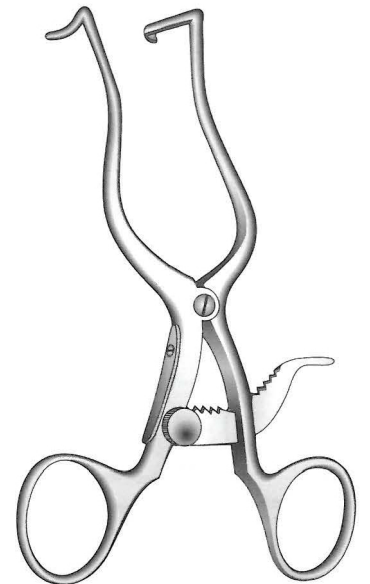
MWH-19-276
Blunt



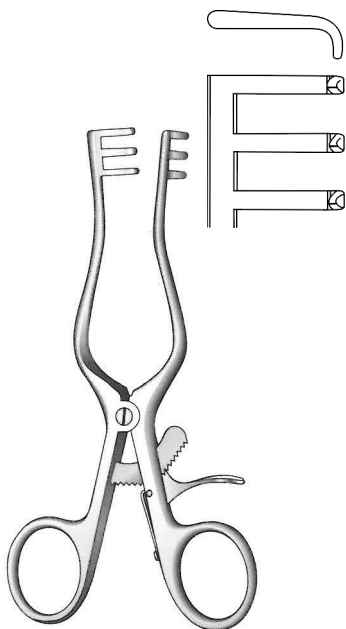
Weitlania
MWH-19-277
14 cm / 5½"



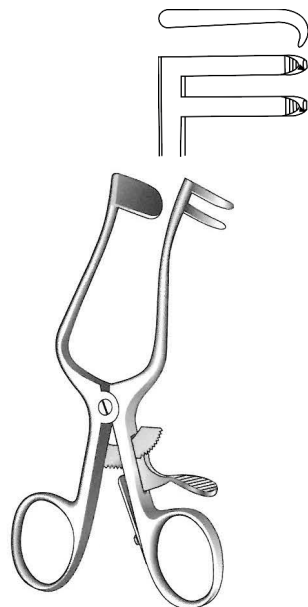
Mollison
MWH-19-278
15 cm / 6"
4:4 Teeth



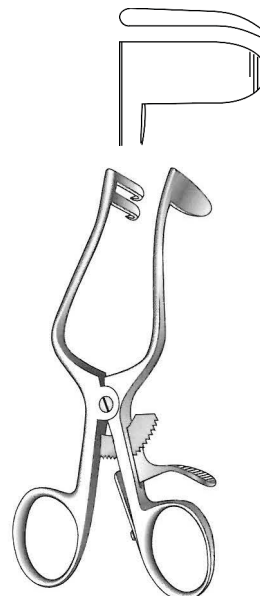
Cloward
MWH-19-475
13.5 cm / 5¼"
Blunt



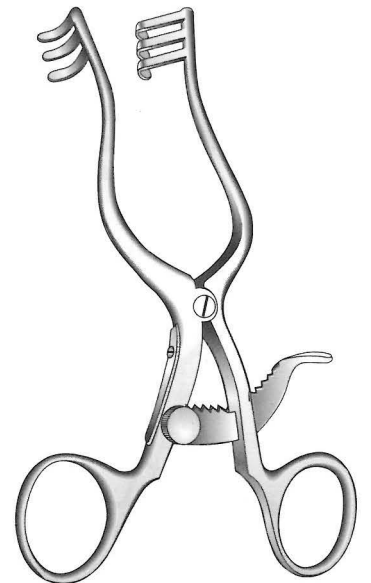
Milligan
MWH-19-279
13 cm / 5"
Blunt
2 Teeth



Plester
MWH-19-280
11 cm / 4¼"
Blunt
2 Teeth



Plester
MWH-19-281
11 cm / 4¼"
Blunt
2 Teeth

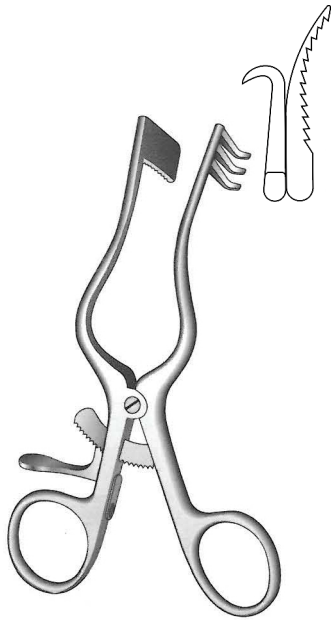


Cloward
MWH-19-477
13.5 cm / 5¼"
Blunt

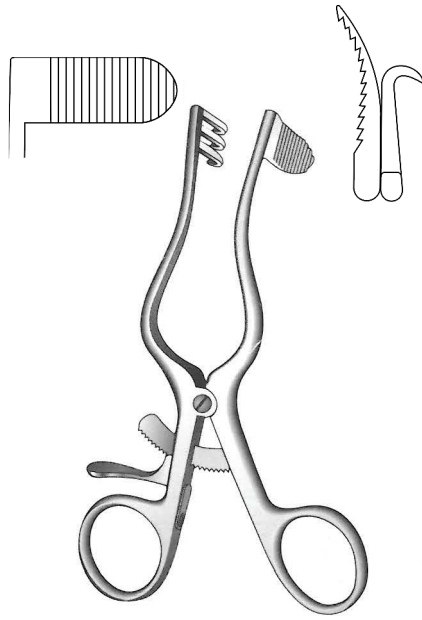
Retractors

Retractors
Wundhaken
Separadores

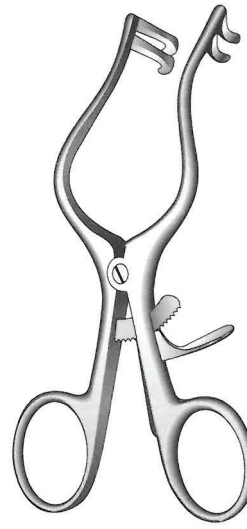
M.W.Hartmann



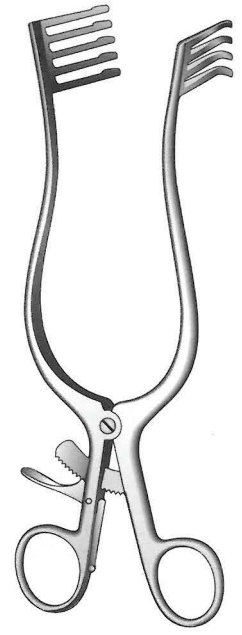
Perkins
MWH-19-282
13 cm / 5"



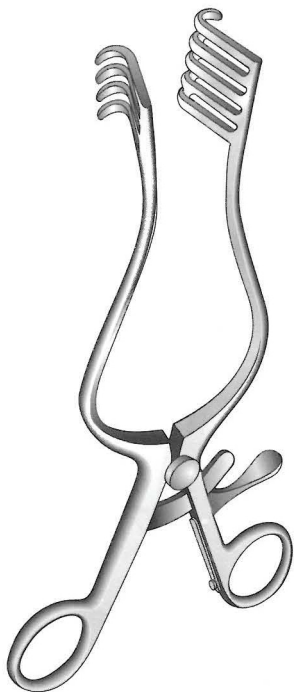
Perkins
MWH-19-283
13 cm / 5"



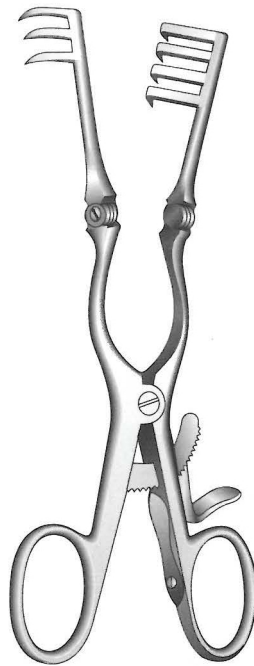
Plester
MWH-19-284
14 cm / 5½"
Blunt



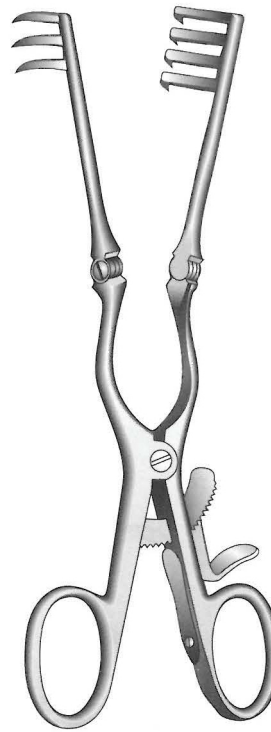
Norfolk-Norwich
MWH-19-285
22 cm / 8¾"
Blunt



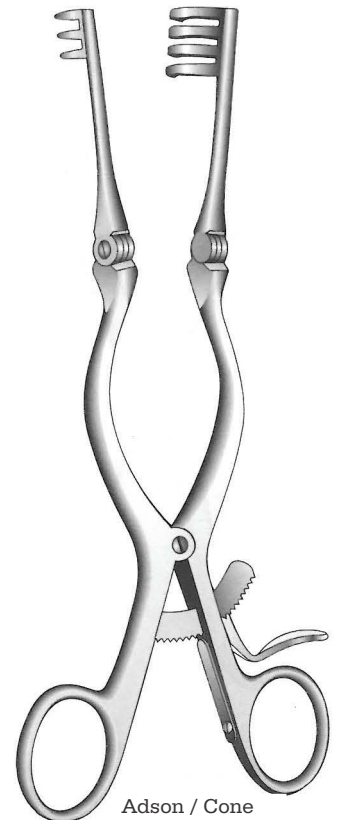
Travers
MWH-19-286
20 cm / 8"



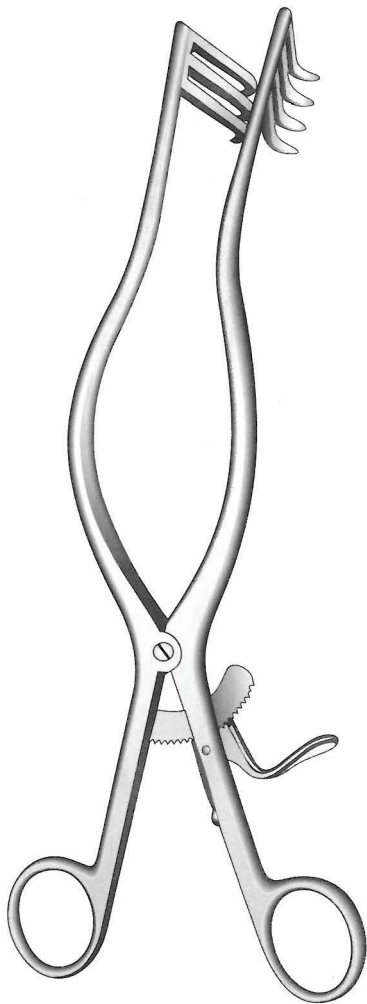
Adson-Baby / Cone
MWH-19-480 **MWH-19-481**
13 cm / 5¼"
Sharp
Blunt



Adson-Baby / Cone
MWH-19-485 **MWH-19-486**
16 cm / 6¼"
Sharp
Blunt

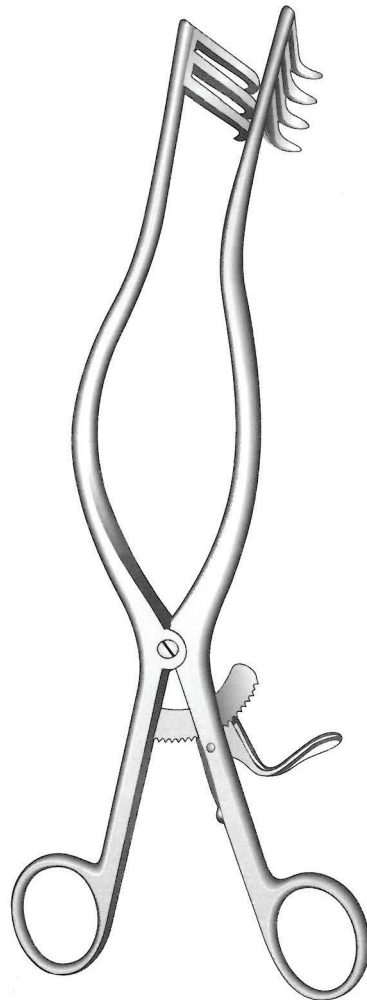


Adson / Cone
MWH-19-487
20 cm / 8"
Blunt



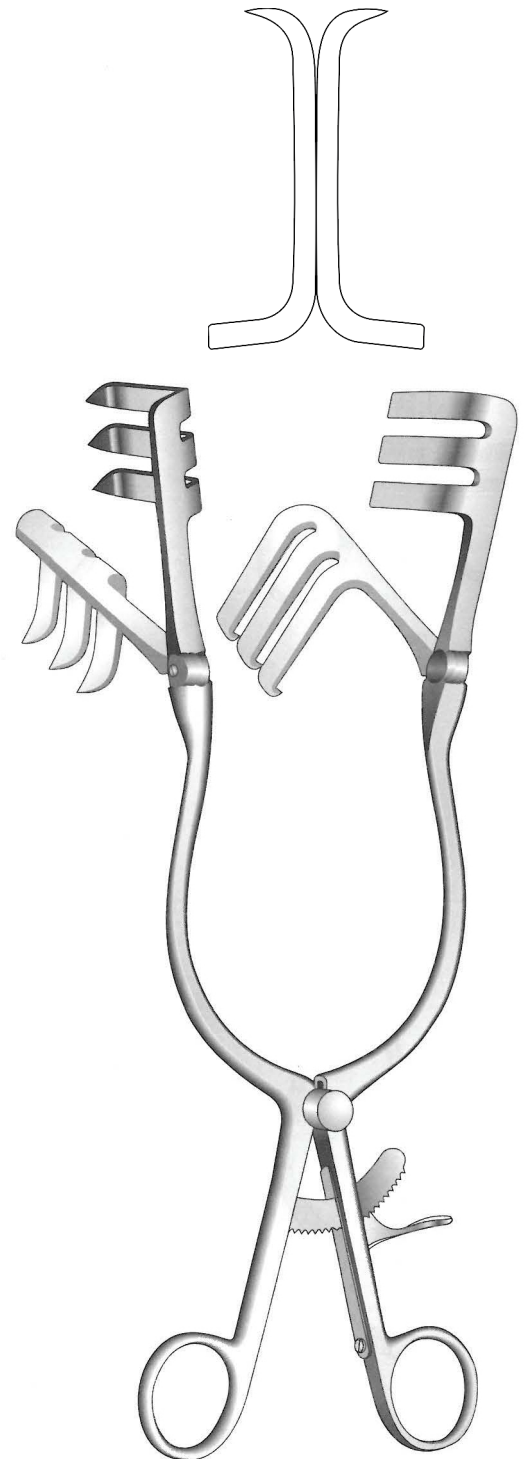
Adson

MWH-19-287	3 x 4	MWH-19-289
MWH-19-288	4 x 4	MWH-19-290
MWH-19-488	6 x 6	MWH-19-490
26.5 cm / 10½"		26.5 cm / 10½"
Sharp		Blunt



Adson Baby

MWH-19-291	14 cm / 5½"	MWH-19-294
MWH-19-292	16 cm / 6¼"	MWH-19-295
MWH-19-293	20 cm / 8"	MWH-19-296
3:4 Teeth		3:4 Teeth
Sharp		Blunt



Harvey Jackson

MWH-19-297
28 cm / 11"
Sharp

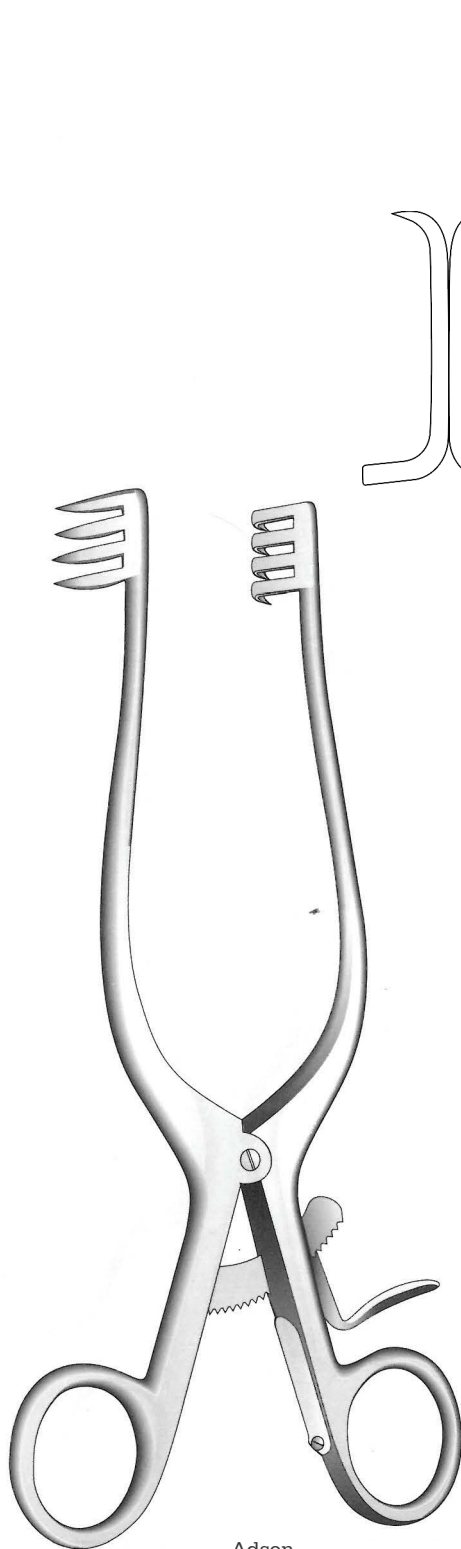
Retractors

Wound Spreaders, Self-retaining

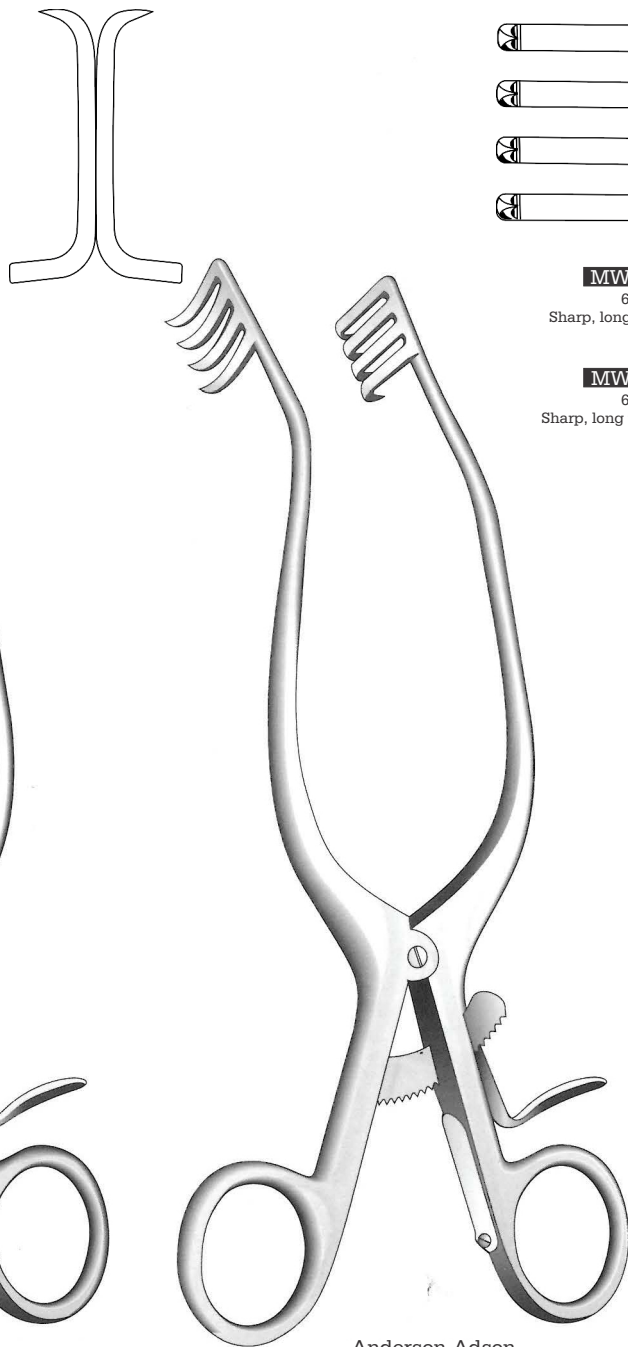
Wundpreizlar

Separadores autoestaticos

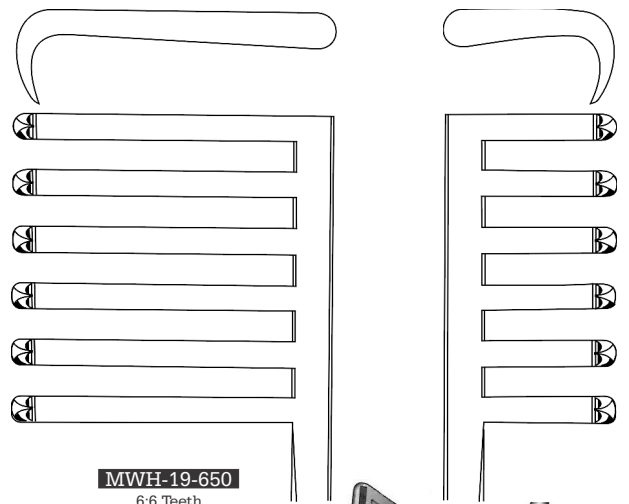
M.W.Hartmann



Adson
MWH-19-495 Sharp
19 cm / 7½"
MWH-19-496 Blunt
20 cm / 8"

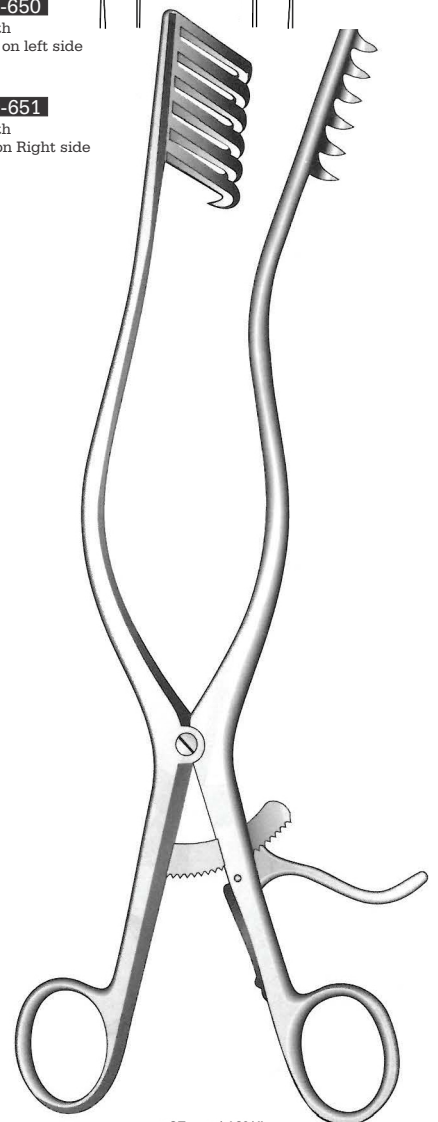


Anderson-Adson
MWH-19-498
19.5 cm / 7¾"
Sharp

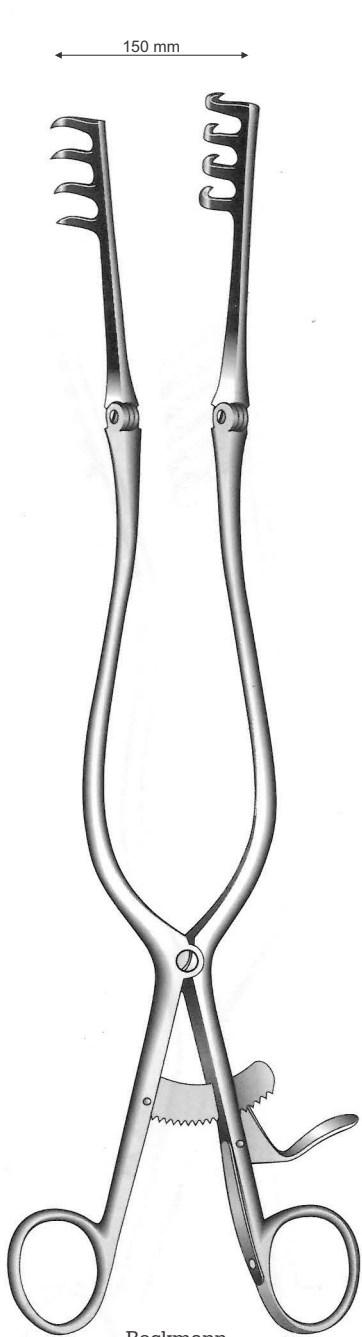


MWH-19-650
6:6 Teeth
Sharp, long teeth on left side

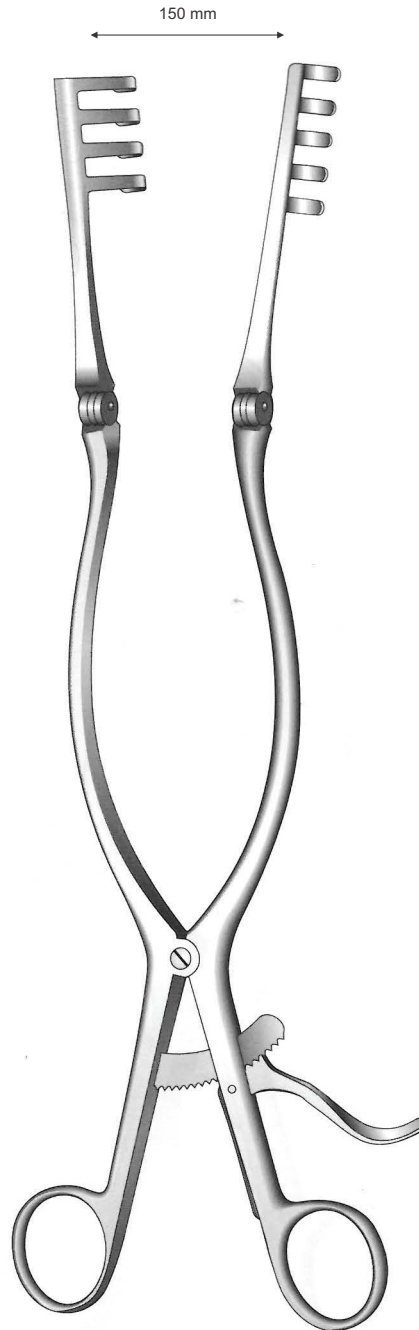
MWH-19-651
6:6 Teeth
Sharp, long teeth on Right side



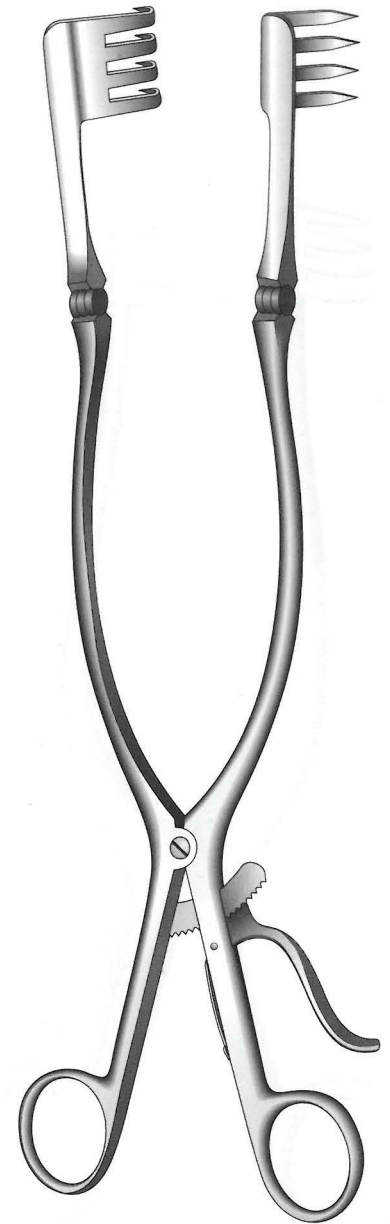
27 cm / 10¾"
6:6 teeth
Hemi-laminectomy retractor



Beckmann
MWH-19-298
31 cm / 12¼"
4:4 Teeth
Sharp



Adson
MWH-19-299
32 cm / 12½"
4:5 Teeth
Blunt



Beckmann-Adson
MWH-19-300 28 x 28 mm **MWH-19-302**
MWH-19-301 44 x 28 mm **MWH-19-303**
31 cm / 12¼"
4:4 Teeth
Sharp

31 cm / 12¼"
4:4 Teeth
Blunt

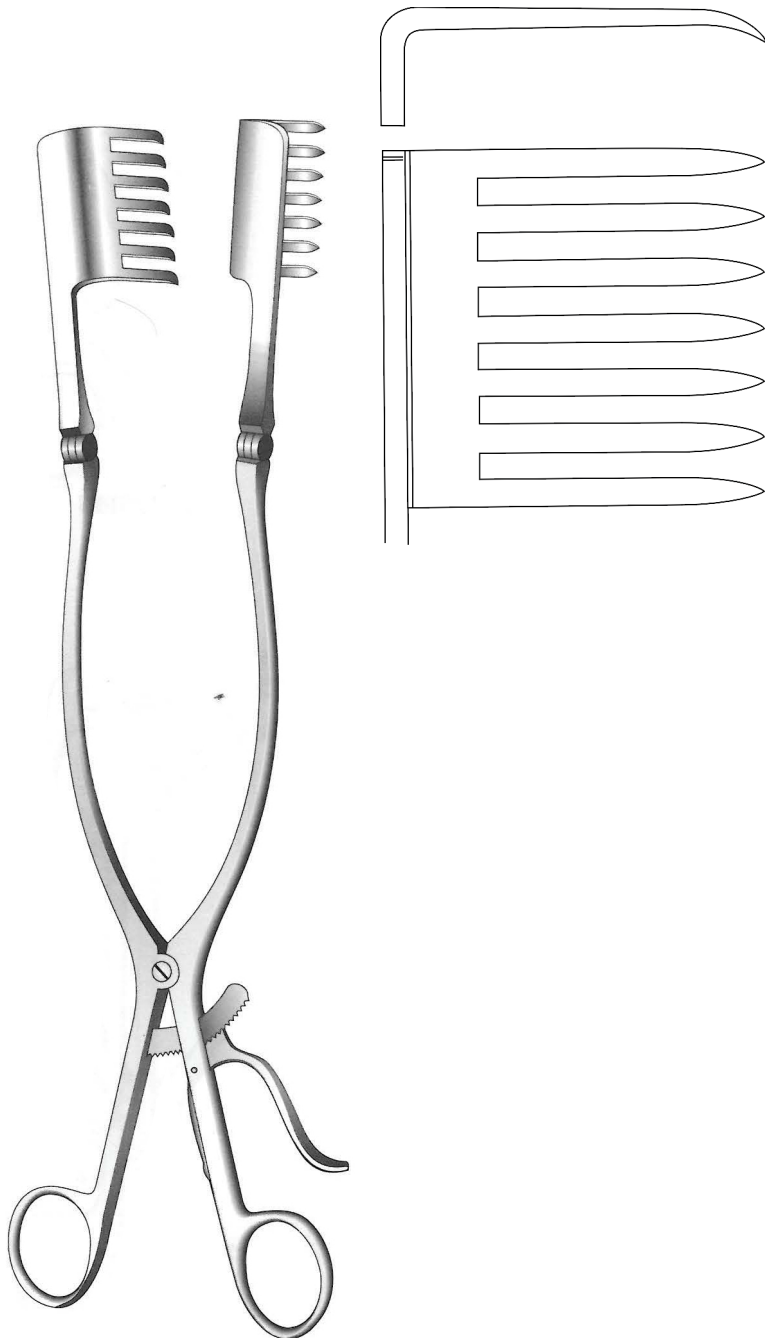
Retractors

Wound Spreaders, Self-retaining

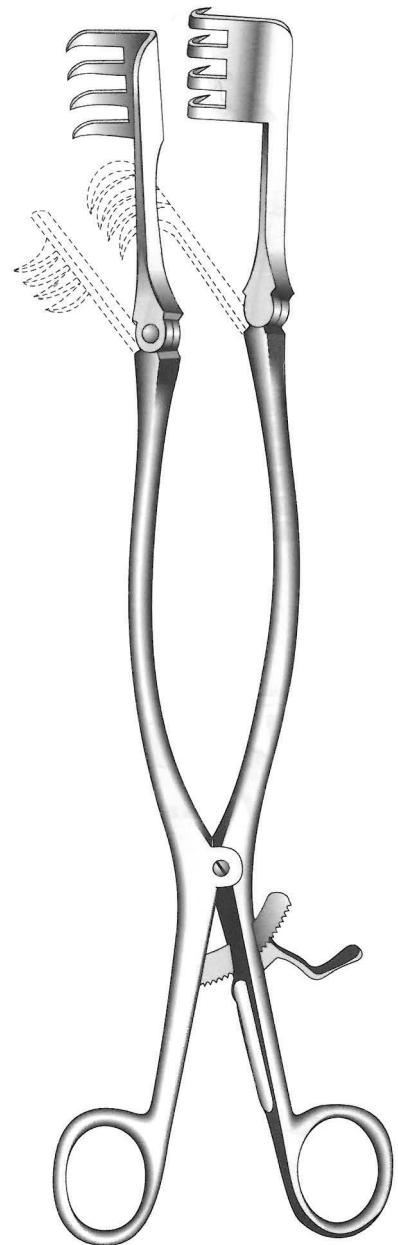
Wundspreizer

Separadores autoestaticos

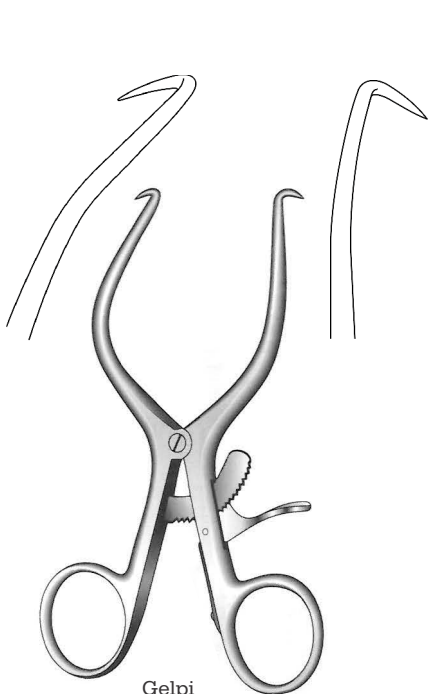
M.W.Hartmann



Beckmann-Eaton
MWH-19-304
32 cm / 12½"
7:7 Teeth

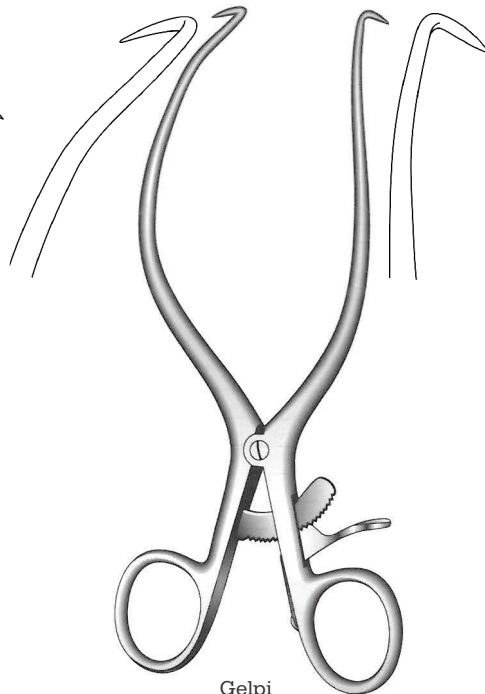


Beckmann
MWH-19-305
31 cm / 12¼"



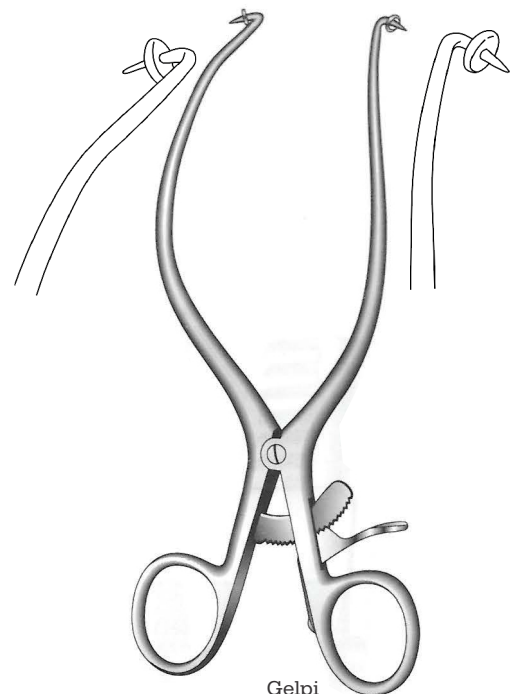
Gelpi

- MWH-19-306** 9 cm / 3½"
- MWH-19-307** 11.5 cm / 4½"
- MWH-19-308** 14 cm / 5½"
- MWH-19-309** 16 cm / 6¼"
- MWH-19-310** 18 cm / 7"
- MWH-19-500** 20 cm / 8"



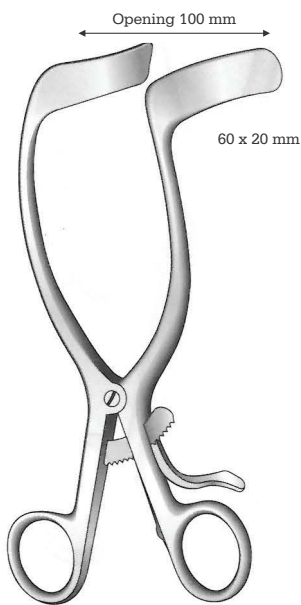
Gelpi

- MWH-19-311** 9 cm / 3½"
- MWH-19-312** 11.5 cm / 4½"
- MWH-19-313** 14 cm / 5½"
- MWH-19-314** 16 cm / 6¼"
- MWH-19-315** 18 cm / 7"



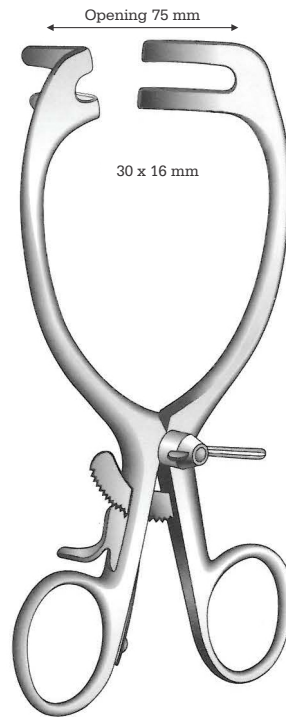
Gelpi

- MWH-19-316**
18 cm / 7"



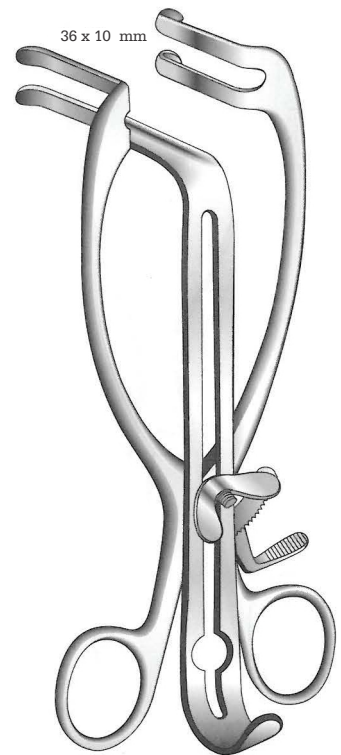
Rigby

- MWH-19-317**
18 cm / 7"



Mayo-Adams

- MWH-19-318**
17 cm / 6¾"



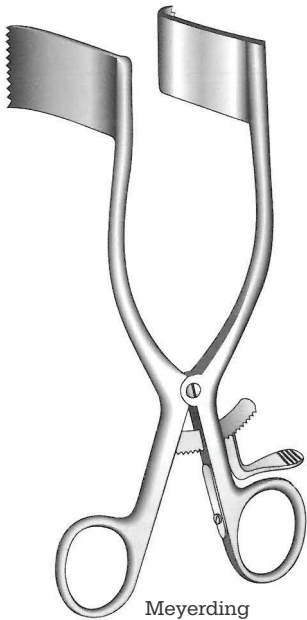
Mayo-Adams

- MWH-19-319**
17 cm / 6¾"
With center blade

Retractors

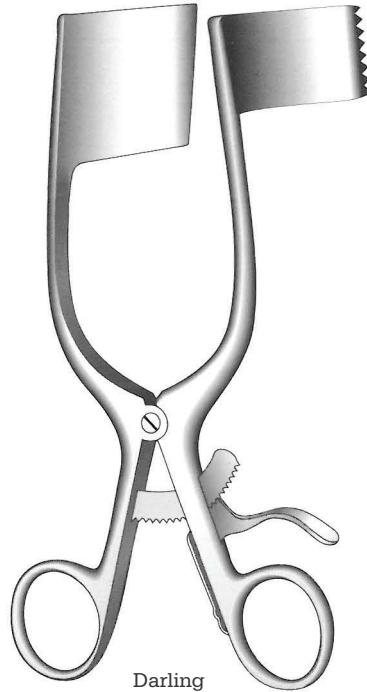
Retractors
Wundhaken
Separadores

M.W.Hartmann



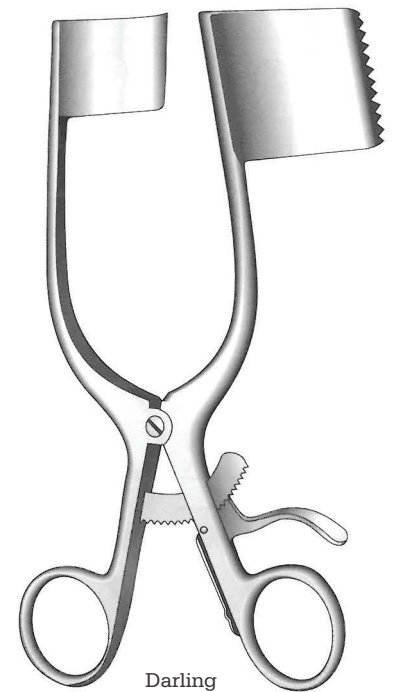
Meyerding

- MWH-19-320** 25 x 60 mm blade
- MWH-19-321** 25 x 55 mm blade
- MWH-19-322** 25 x 35 mm blade
- MWH-19-323** 22 x 60 mm blade



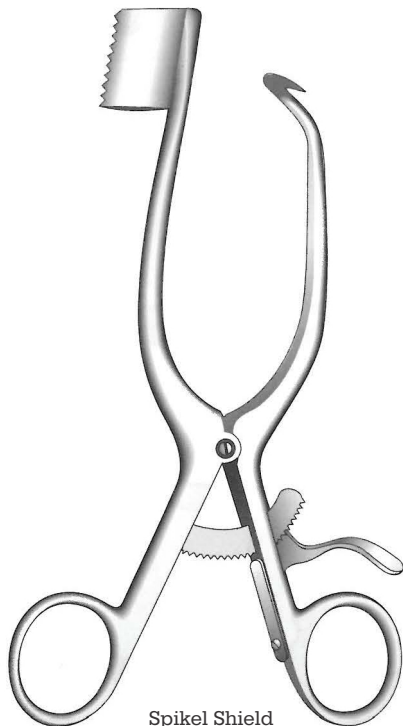
Darling

- MWH-19-505**
18 cm / 7"
(Poplitea)



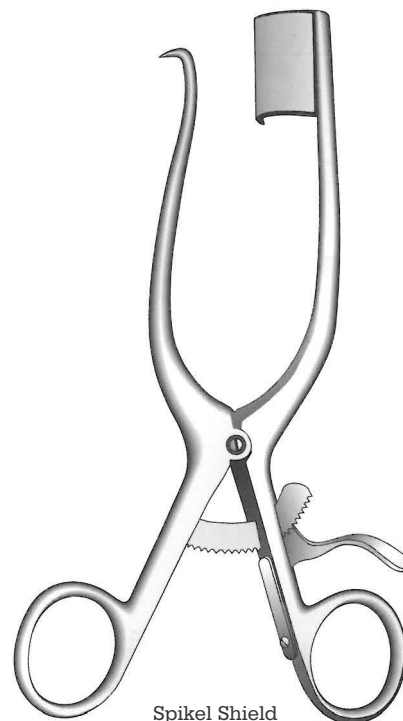
Darling

- MWH-19-510**
18 cm / 7"
(Poplitea)



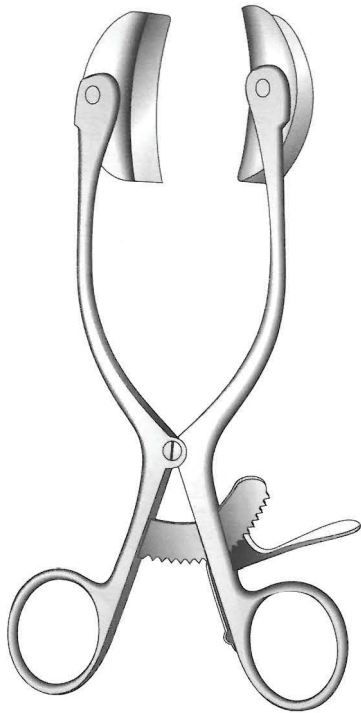
Spikel Shield

- MWH-19-515** 12.5 cm / 5"
 - MWH-19-516** 18 cm / 7"
- Left

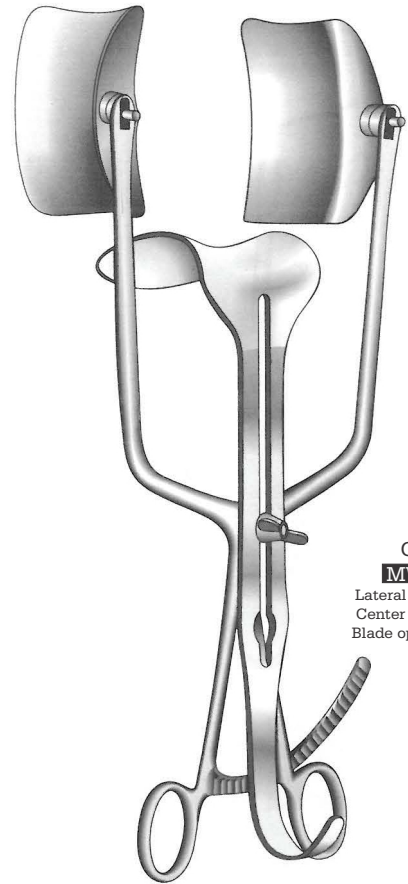


Spikel Shield

- MWH-19-520** 12.5 cm / 5"
 - MWH-19-521** 18 cm / 7"
- Right



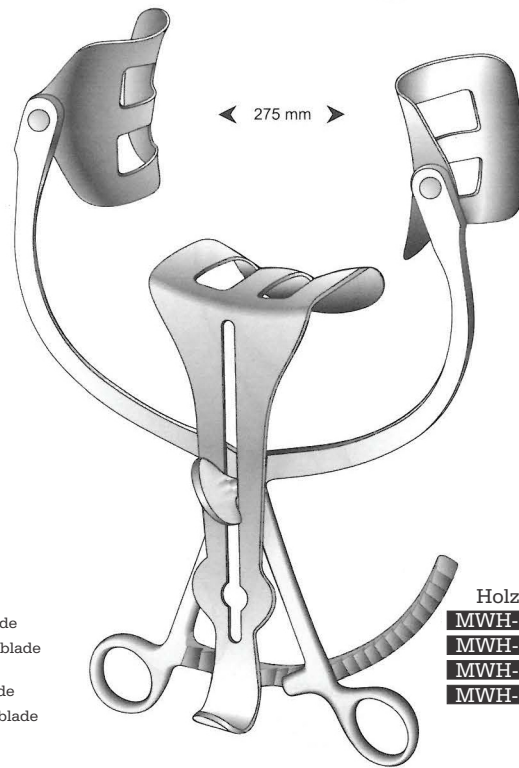
Collin, Baby
MWH-19-525
20 cm / 8"
Complete with 2 pairs of lateral blades
(18 x 40 mm), (27 x 40 mm)



Oettingen
MWH-19-530
Lateral Blades 38 x 80 mm
Center blades 50 x 65 mm
Blade opening 150 mm / 6"



Collin
MWH-19-328 With center blade
MWH-19-329 Without center blade
25 cm / 10"
MWH-19-535 With center blade
MWH-19-536 Without center blade
28 cm / 11"

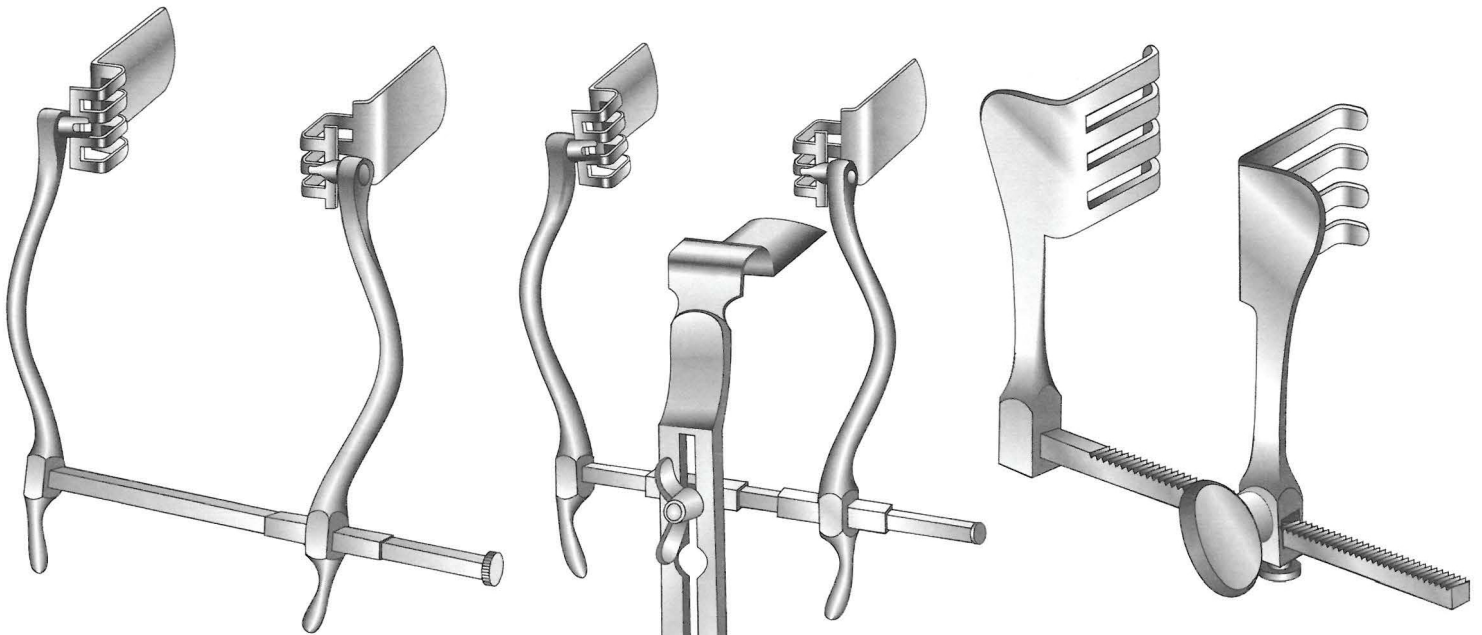


Holzbach
MWH-19-337 Complete
MWH-19-338 Spreader only
MWH-19-339 59 x 80 mm lateral blades
MWH-19-340 74 x 82 mm center blade

Retractors

Retractors
Wundhaken
Separadores

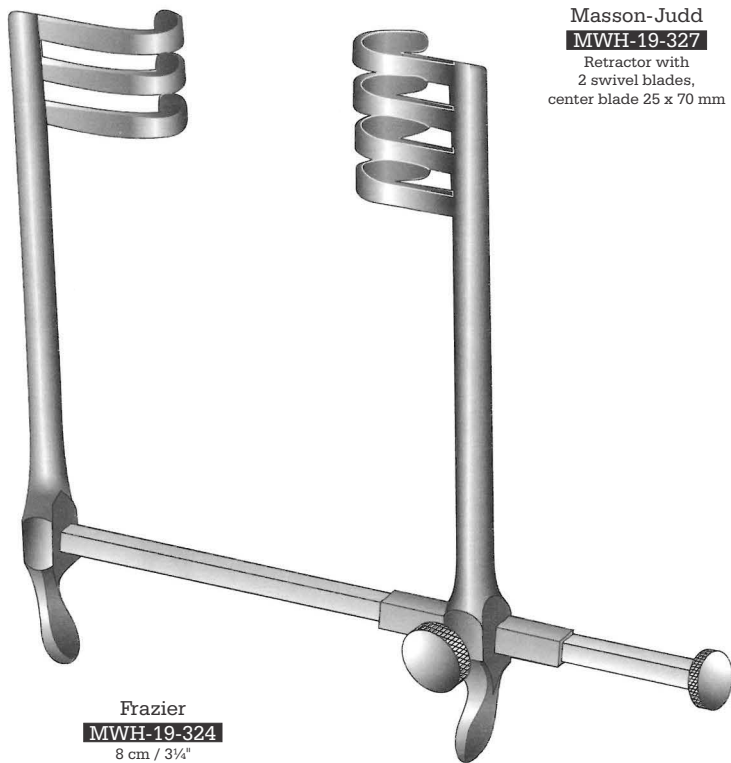
M.W.Hartmann



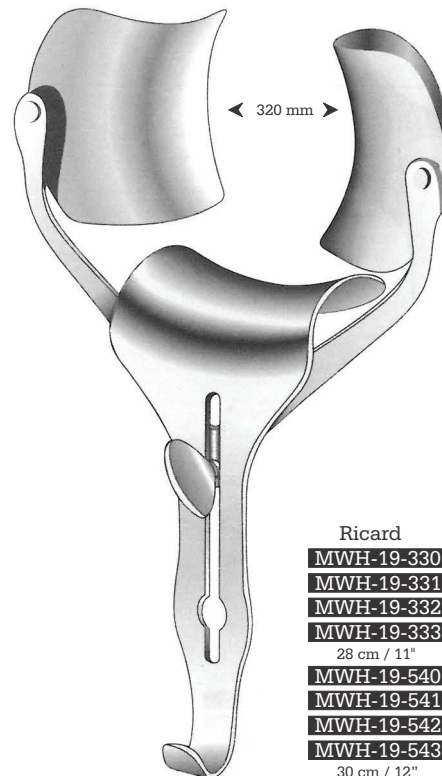
Masson-Judd
MWH-19-326
Bladder retractor with
2 swivel blades 25 x 70 mm

Badgley
MWH-19-325
50 x 44 mm
16 cm / 6 1/4"
Spread

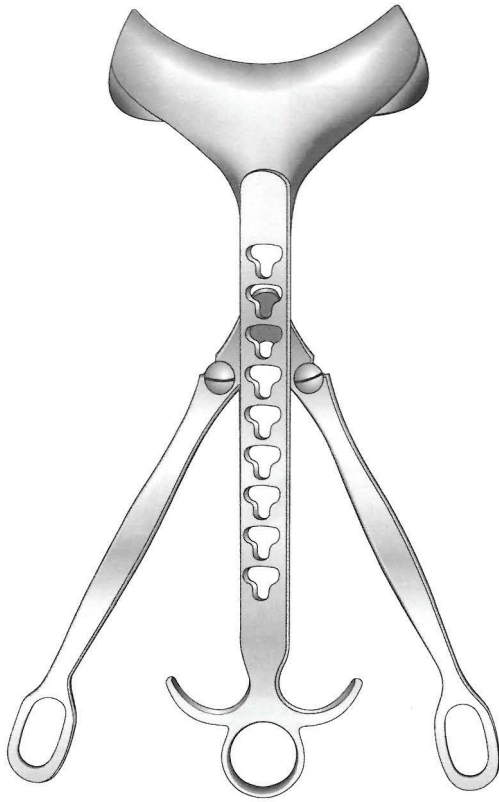
Masson-Judd
MWH-19-327
Retractor with
2 swivel blades,
center blade 25 x 70 mm



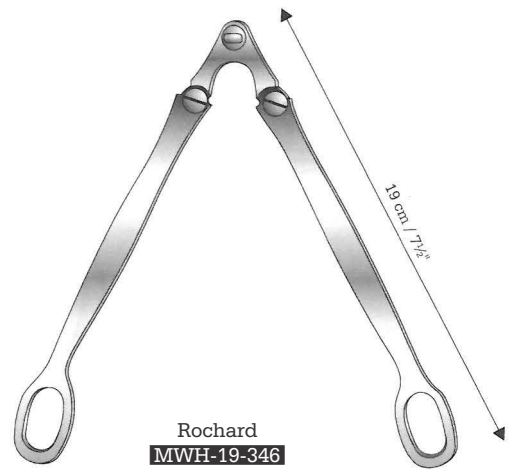
Frazier
MWH-19-324
8 cm / 3 1/4"
Spread
Laminectomy Retractor



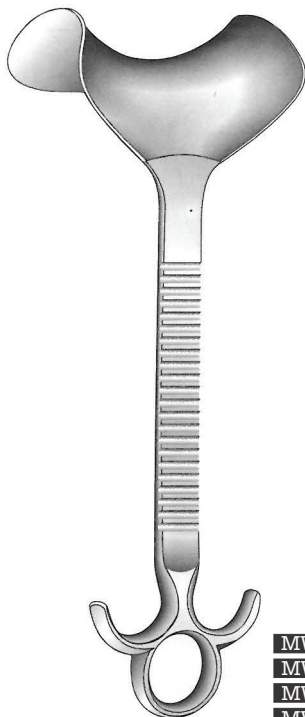
Ricard
MWH-19-330 Complete set
MWH-19-331 Spreader only
MWH-19-332 55 x 70 mm center blade
MWH-19-333 50 x 58 mm lateral blades
28 cm / 11"
MWH-19-540 Complete set
MWH-19-541 Spreader only
MWH-19-542 80 x 90 mm center blade
MWH-19-543 60 x 80 mm lateral blades
30 cm / 12"



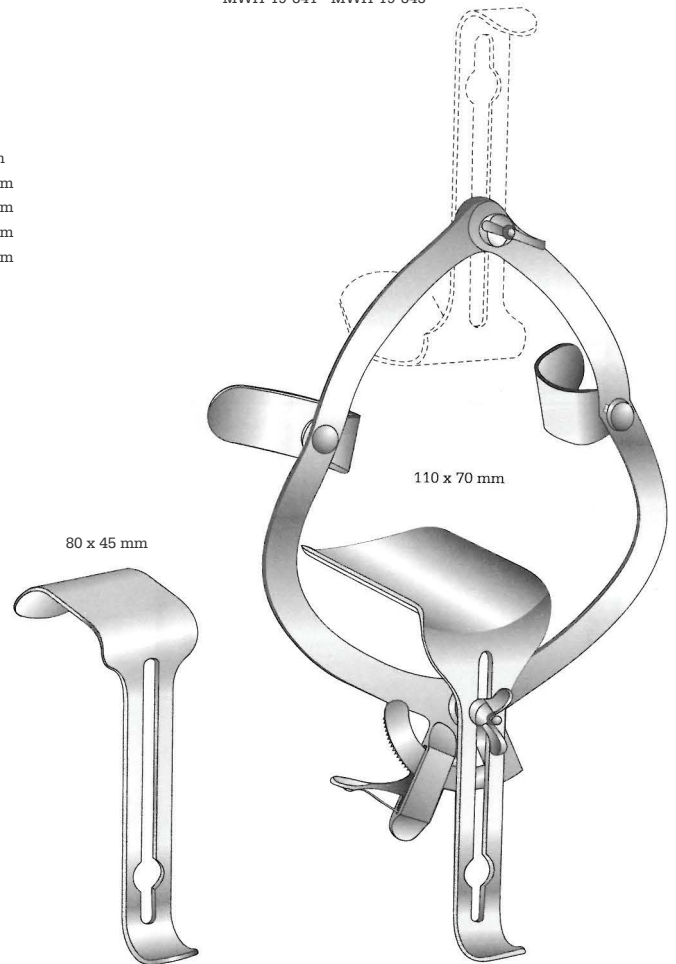
Rochard
MWH-19-341 48 x 90 mm
MWH-19-342 48 x 105 mm
MWH-19-343 48 x 120 mm
MWH-19-344 48 x 135 mm
MWH-19-345 48 x 155 mm
 31 cm / 12 1/4"



Rochard
MWH-19-346
 19 cm / 7 1/2"
 Fixation device for
 MWH-19-341 - MWH-19-345



Doyen
MWH-19-347 48 x 90 mm
MWH-19-348 48 x 105 mm
MWH-19-349 48 x 120 mm
MWH-19-350 48 x 135 mm
 28 cm / 11"

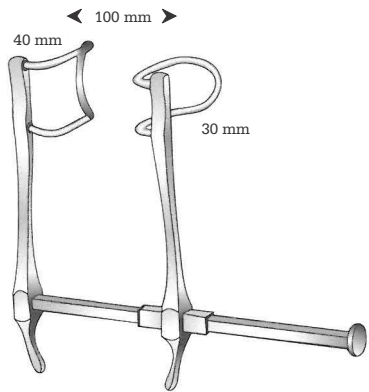


O' Sullivan-O' Connor
MWH-19-351
 Adult
MWH-19-550
 Baby

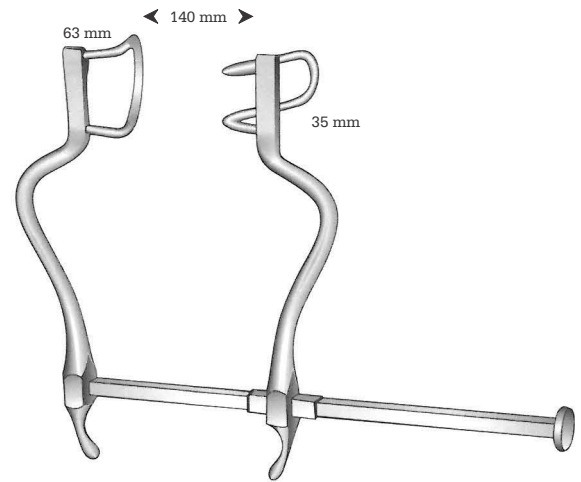
Retractors

Abdominal Retractors
Bauchdeckenhalter
Separadores Abdominales

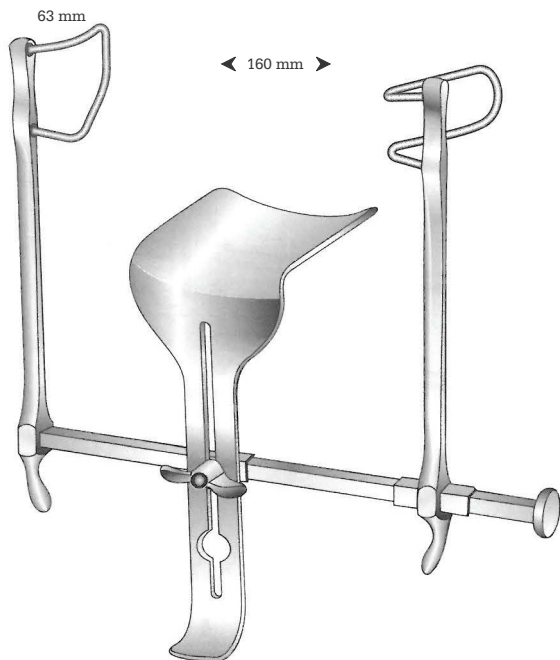
M.W.Hartmann



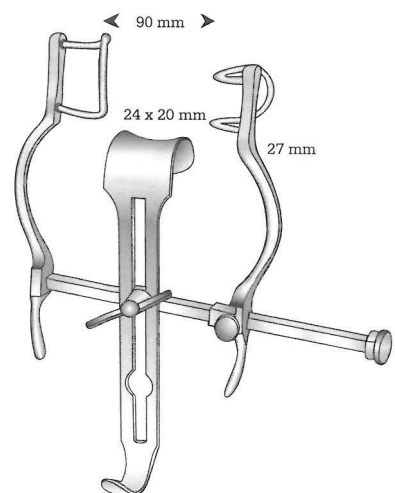
Gosset-Baby
MWH-19-353



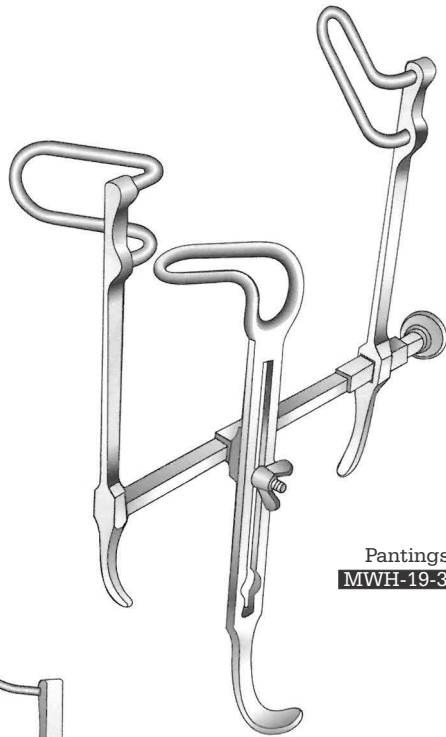
Gosset
MWH-19-352



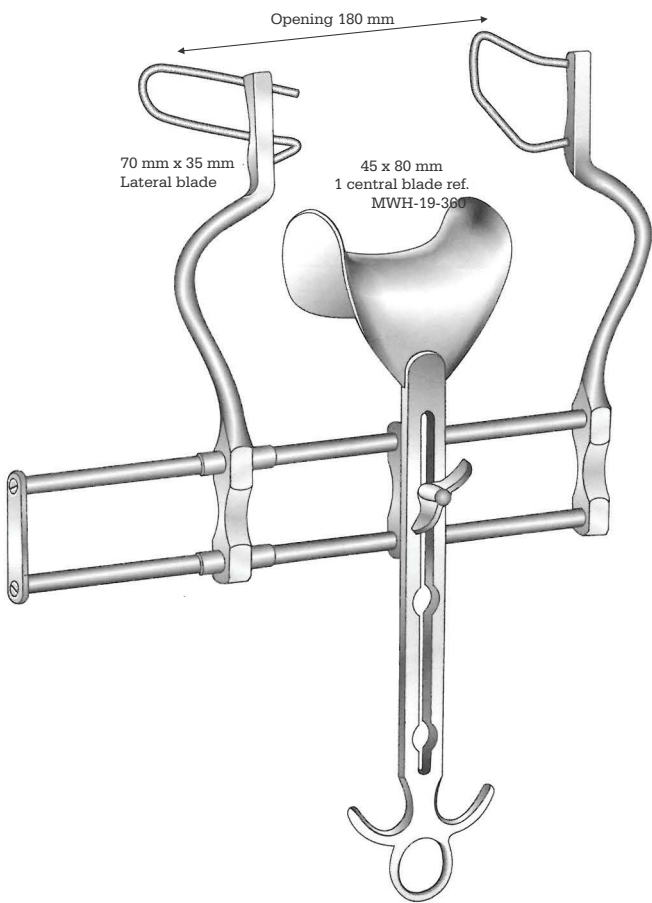
Gosset
MWH-19-354



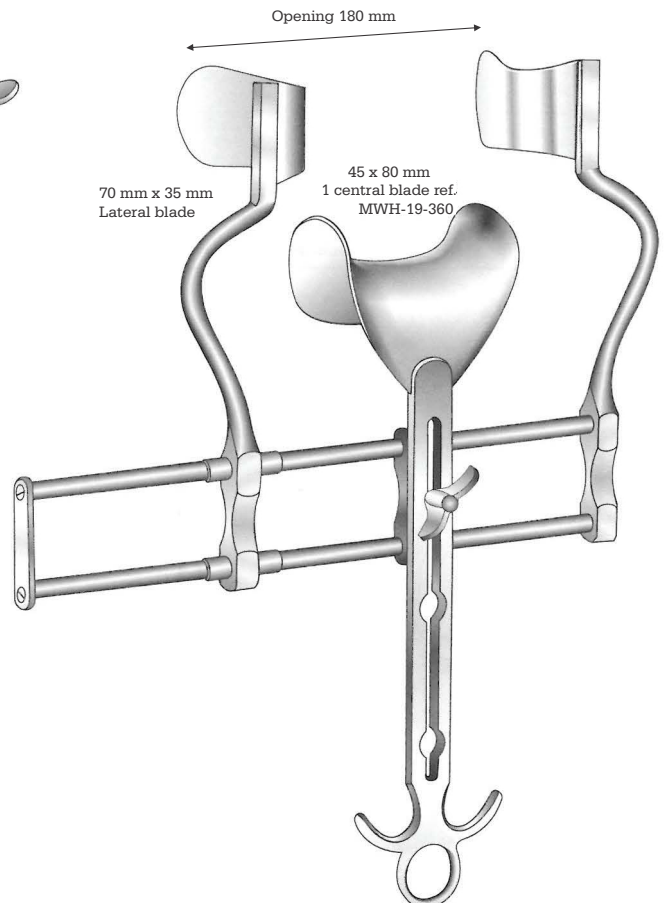
Balfour-Baby
MWH-19-356 Single Bar
MWH-19-555 Double bar



Pantings
MWH-19-355



Balfour
MWH-19-357

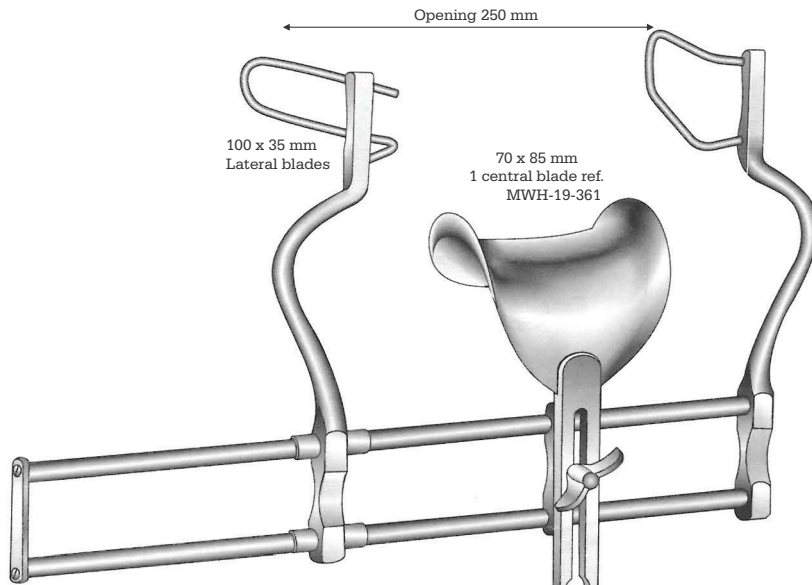


Balfour
MWH-19-358

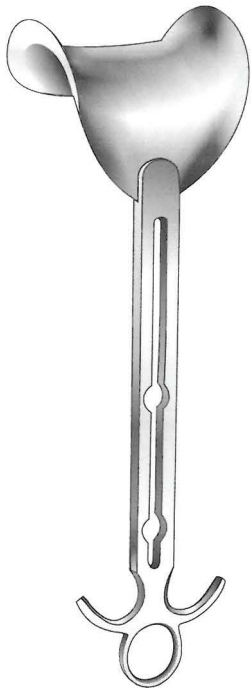
Retractors

Abdominal Retractors
Bauchdeckenhalter
Separadores Abdominales

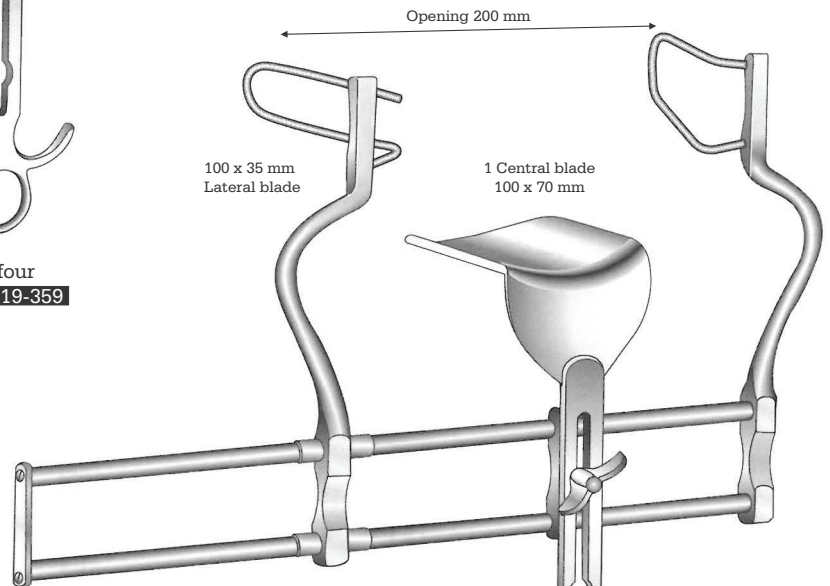
M.W.Hartmann



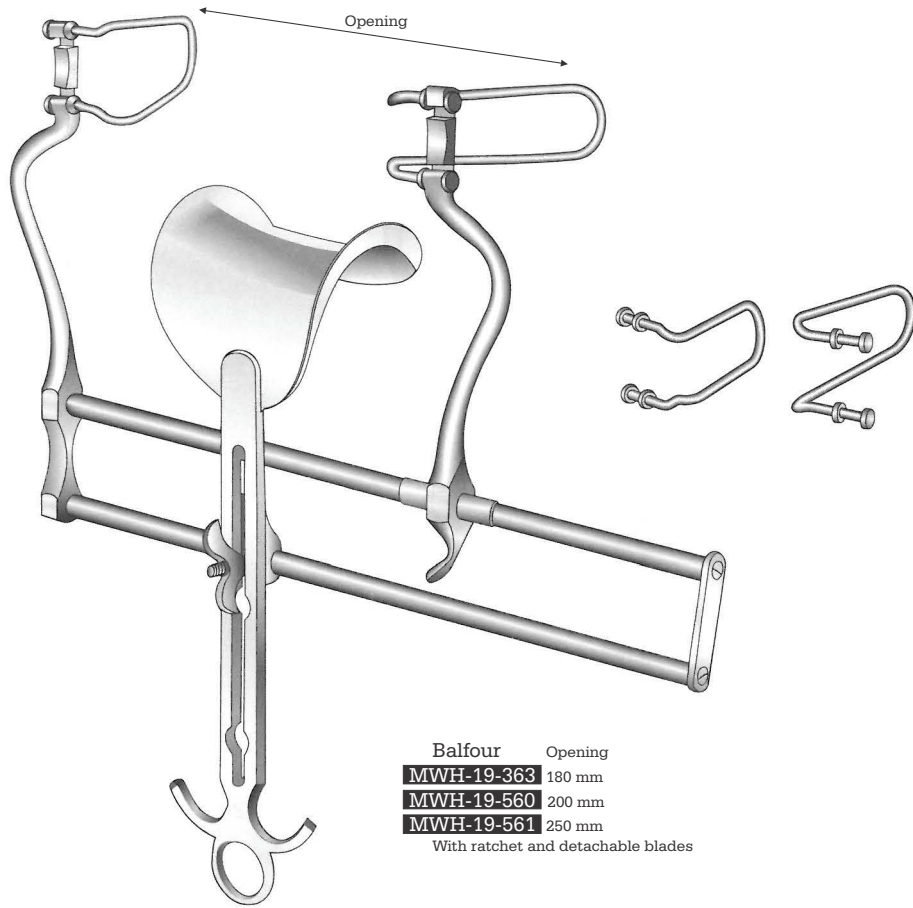
Balfour
MWH-19-359



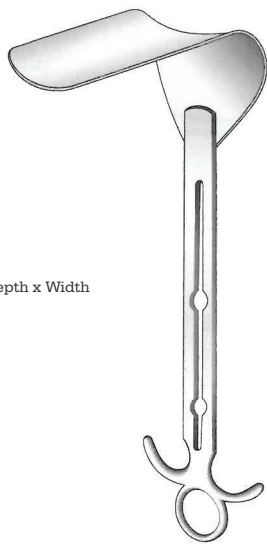
Balfour
MWH-19-360 45 x 80 mm
MWH-19-361 70 x 85 mm



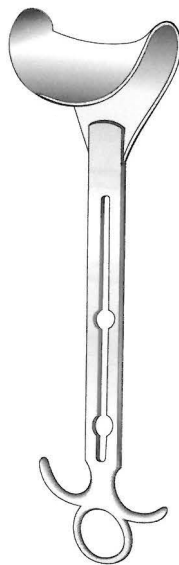
Balfour
MWH-19-362



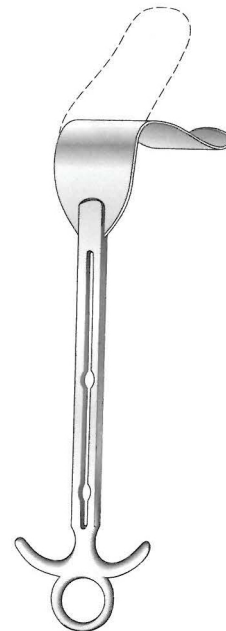
Measurements of blades: Depth x Width



MWH-19-364
70 x 100 mm



MWH-19-365 75 x 45 mm
MWH-19-366 65 x 45 mm
MWH-19-367 82 x 70 mm

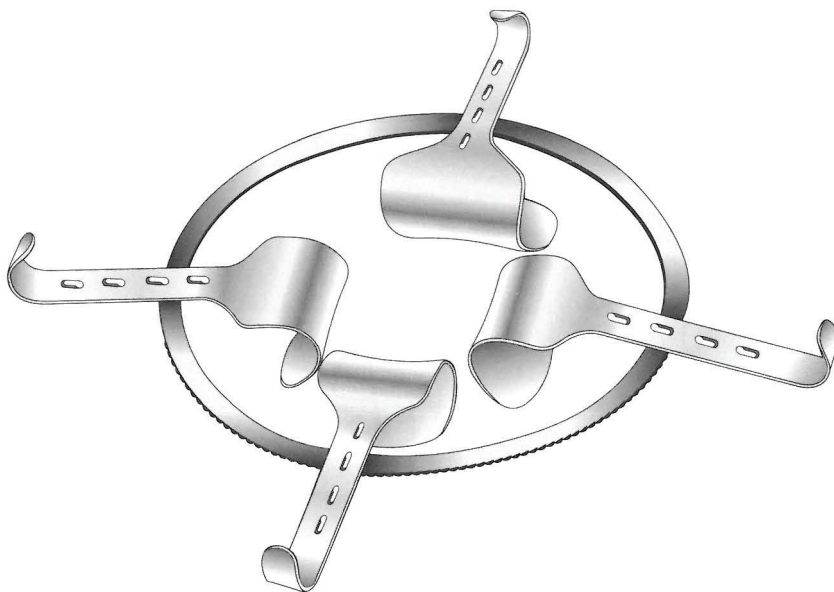


MWH-19-565
50 x 127 mm

Retractors

Abdominal Retractors
Bauchdeckenhalter
Separadores Abdominales

M.W.Hartmann

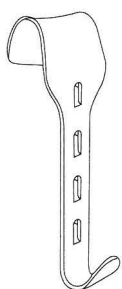


Kirschner
Standard, oval
MWH-19-370
Frame only 300 x 240 mm

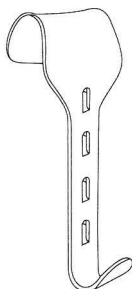
Kirschner
Standard, oval
MWH-19-372
Complete set, consisting 1 frame & 4 blades
1 frame, 300 x 240 mm
1 blade, 50 x 65 mm
1 blade, 80 x 90 mm
1 blade, 98 x 50 mm
1 blade, 105 x 35 mm

Kirschner
Standard, oval
MWH-19-750
Complete set, consisting 1 frame & 7 blades
1 frame, 300 x 240 mm
1 blade, 40 x 55 mm
1 blade, 50 x 65 mm
1 blade, 60 x 85 mm
1 blade, 78 x 65 mm
1 blade, 80 x 90 mm
1 blade, 98 x 50 mm
1 blade, 105 x 35 mm

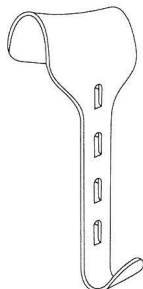
Measurements of blades: Depth x Width



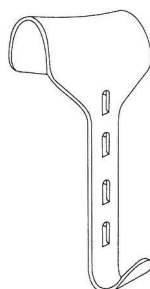
MWH-19-374
40 x 55 mm
Standard



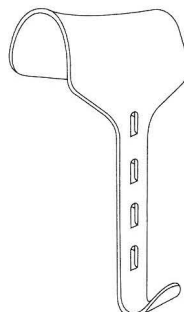
MWH-19-375
50 x 65 mm
Standard



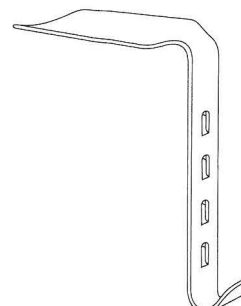
MWH-19-376
60 x 85 mm
Standard



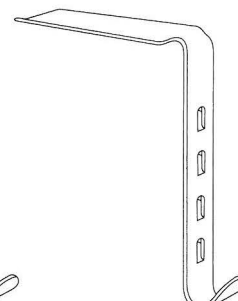
MWH-19-377
78 x 65 mm
For obese patients



MWH-19-378
80 x 90 mm
For obese patients

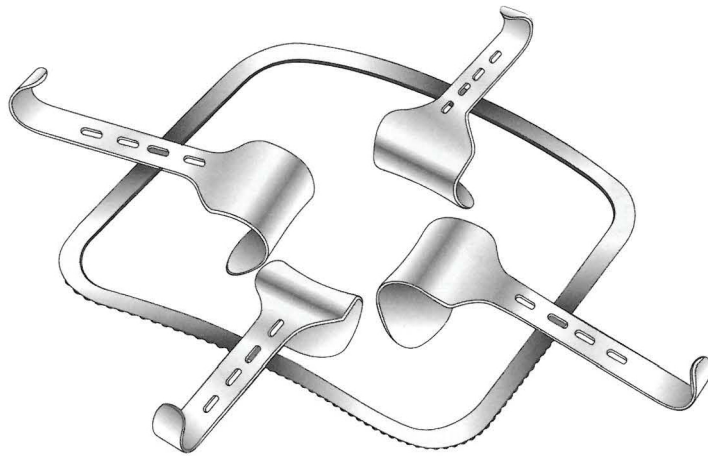


MWH-19-379
98 x 50 mm
For intestinal and bladder



MWH-19-380
105 x 35 mm
For intestinal and bladder

Abdominal Retractors for new-born and children
Extra blades are available only with set.

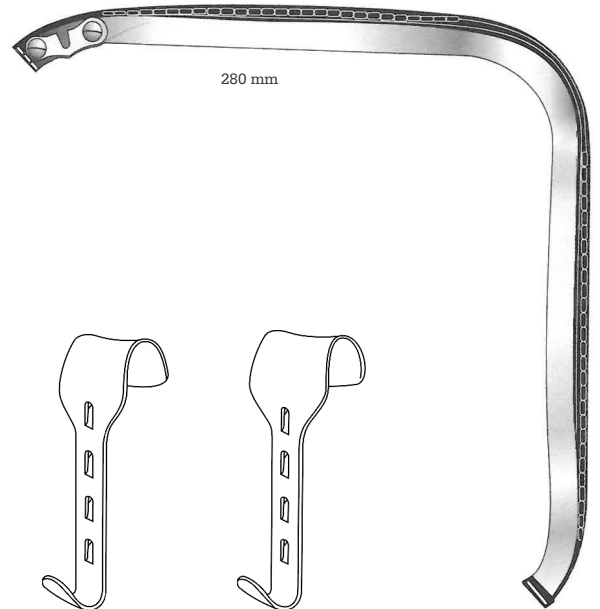


Kirschner
MWH-19-384

Complete set, consisting 1 frame & 4 blades
1 Frame, 240 x 240 mm
2 blades, 40 x 55 mm
2 blades, 50 x 65 mm

Kirschner
MWH-19-383

Frame only
240 x 240 mm



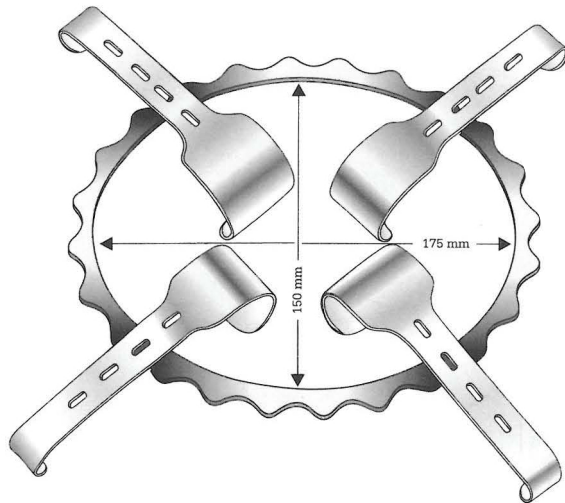
Kirschner
MWH-19-374

40 x 55 mm

Kirschner
MWH-19-375

50 x 65 mm

MWH-19-387

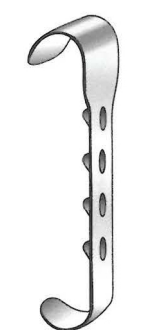


Denis-Browne
MWH-19-388

Complete set, consisting 1 frame & 4 blades
1 Frame, 150 x 175 mm
2 blades, 20 x 30 mm
2 blades, 20 x 40 mm

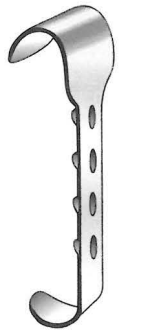
Denis-Browne
MWH-19-391

150 x 175 mm
Frame only



MWH-19-394

20 x 30 mm



MWH-19-395

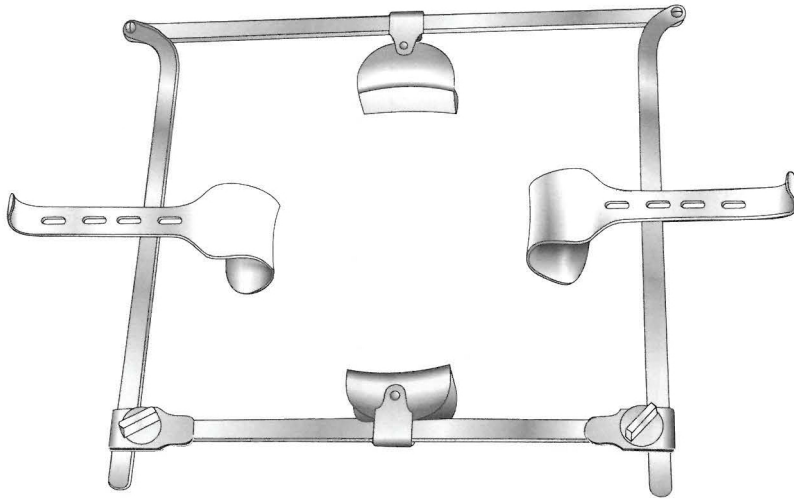
20 x 40 mm

Retractors

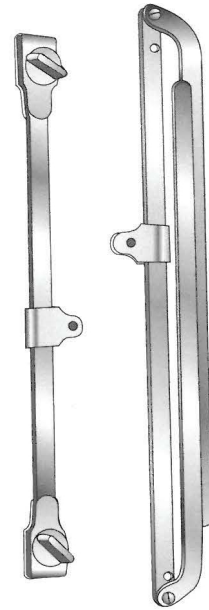
Abdominal Retractors
Bauchdeckenhalter
Separadores Abdominales

M.W.Hartmann

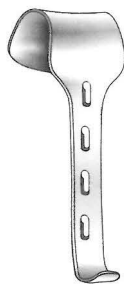
Extra blades are available only with set.



Franz
MWH-19-404
Complete set, consisting 1 frame & 8 blades
Folding frame, 300 x 300 mm
2 blades, 50 x 65 mm
2 blades, 60 x 85 mm
2 blades, 38 x 60 mm
2 blades, 45 x 80 mm



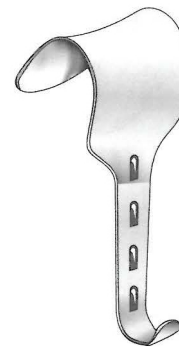
Franz
MWH-19-398
300 x 300 mm
Frame only
Folded



MWH-19-375
50 x 65 mm



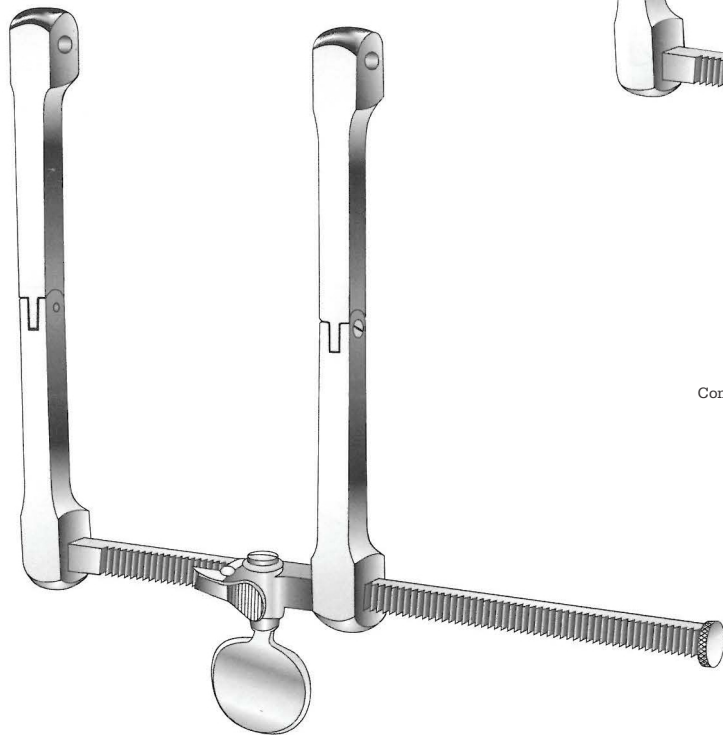
MWH-19-401
38 x 60 mm



MWH-19-376
60 x 85 mm



MWH-19-402
45 x 80 mm



Scoville-Haverfield

MWH-19-576

Frame only, with joint
Spreading 150 mm

MWH-19-575

Complete set of 13 pieces (hooks & blades)



Scoville

MWH-19-571

Frame only
Spreading 150 mm

MWH-19-570

Complete set of 13 pieces (hooks & blades)

Blades on page 183

Retractors

Laminectomy Retractors

Laminektomiesperrer

Separadores para laminectomia

M.W.Hartmann

Blades for MWH-19-570 & MWH-19-575 on page 182



Scoville
MWH-19-580
50 mm deep
Blunt



Scoville
MWH-19-581
70 mm deep
Blunt



Scoville
MWH-19-585
50 mm deep
Sharp



Scoville
MWH-19-586
70 mm deep
Sharp



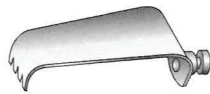
Scoville
MWH-19-590 60 x 25 mm
MWH-19-591 64 x 50 mm
MWH-19-592 88 x 25 mm
Toothed



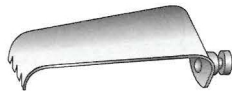
Taylor
MWH-19-600 48 x 50 mm
MWH-19-601 64 x 50 mm
MWH-19-602 64 x 64 mm
MWH-19-603 80 x 57 mm
Sharp



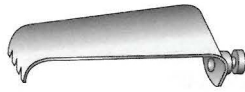
Scoville
MWH-19-610 41 x 38 mm
MWH-19-611 67 x 44 mm
Sharp



MWH-19-405
40 mm



MWH-19-415
45 mm



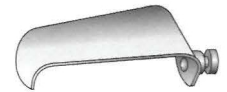
MWH-19-416
50 mm



MWH-19-406
55 mm



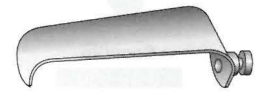
MWH-19-407
60 mm



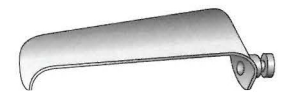
MWH-19-408
40 mm



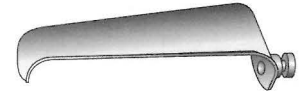
MWH-19-409
45 mm



MWH-19-410
50 mm



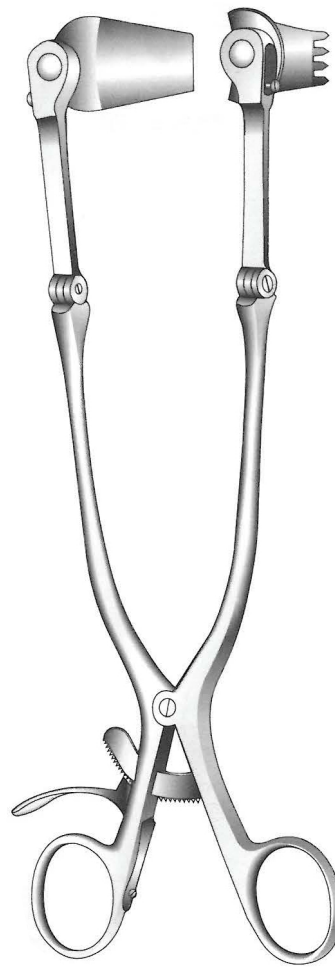
MWH-19-411
55 mm



MWH-19-412
60 mm



Cloward
16 cm / 6¼"
MWH-19-896
Complete Set



Cloward
25 cm / 10"
MWH-19-897
Complete Set