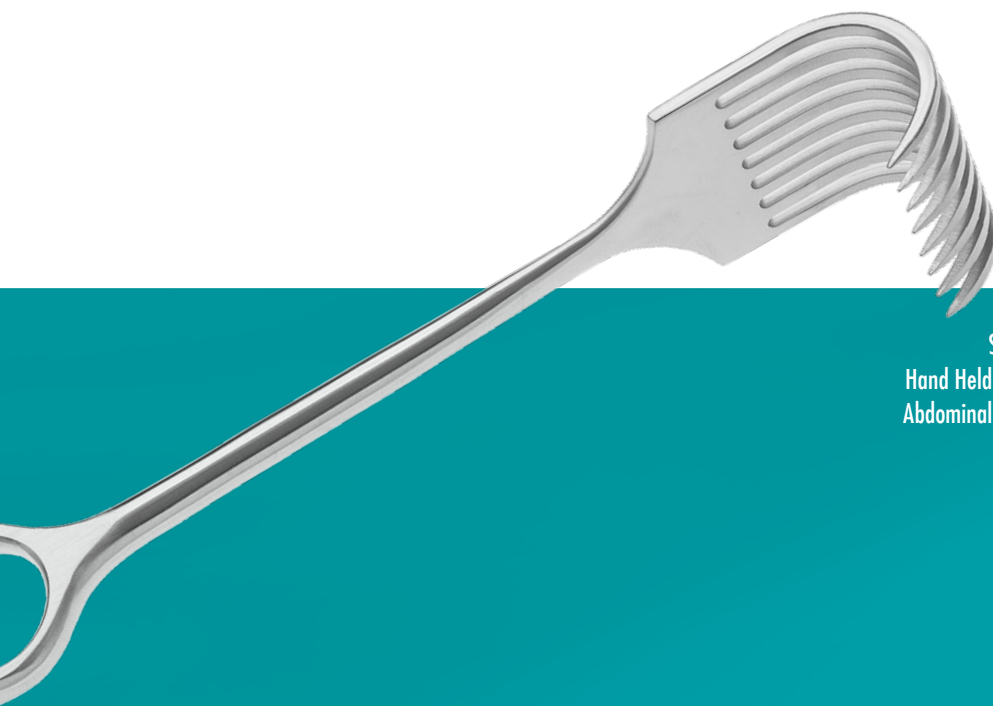
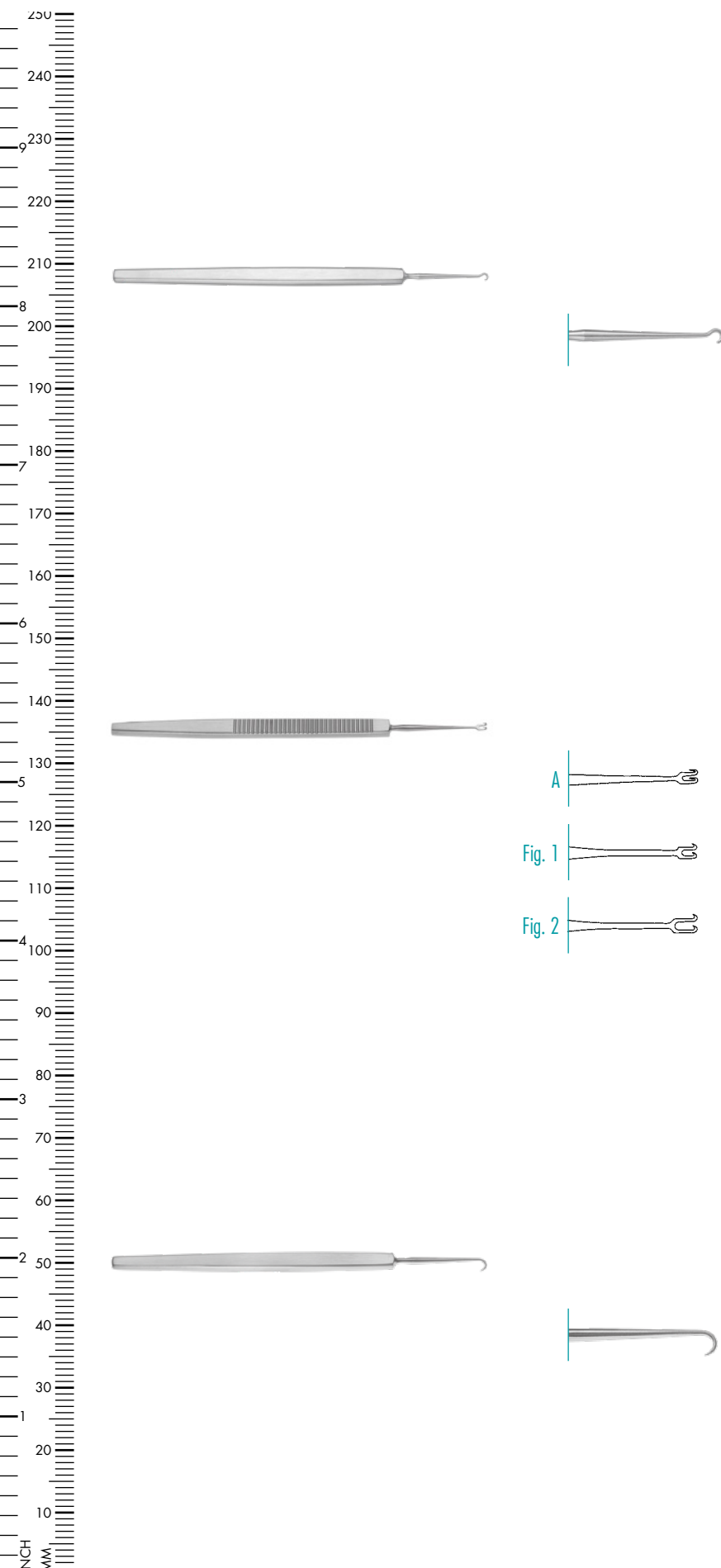


HAND HELD RETRACTORS



Skin Hooks
Hand Held Retractors
Abdominal Retractors



GRAEFE

Micro Skin Hook, 125mm, 5"

sharp	170-010-125
blunt	170-011-125

GUTHRIE

Micro Skin Hook, 2 prongs, sharp

A 120mm, 4 ³ / ₄ "	170-042-130
Fig. 1 160mm, 6 ¹ / ₄ "	170-042-160
Fig. 2 160mm, 6 ¹ / ₄ "	170-044-160

O'CONNOR

Skin Hook

120mm, 4 ³ / ₄ "	170-040-160
--	-------------



FRAZIER

Skin Hook

130mm, 5¹/₈"

170-013-130



BARSKY

Double Skin Hooklet, 2 prongs

150mm, 6"

170-019-000



KNAPP

Skin Retractor, 4 prongs, 130mm, 5¹/₈"

sharp 170-080-001

blunt 170-080-002

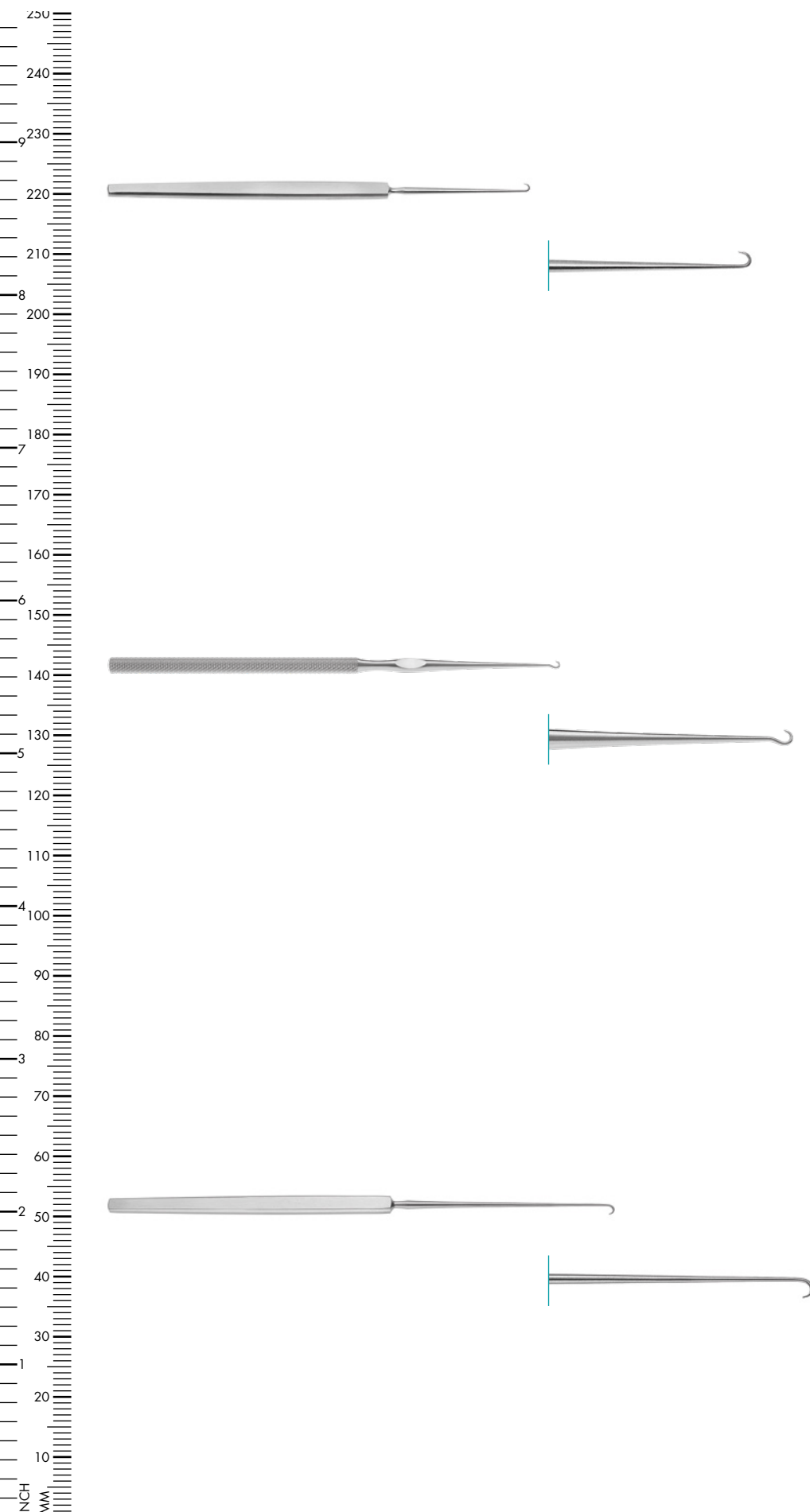


MILLER

Skin Retractor, 9 prongs, 135mm, 5¹/₃"

sharp 170-085-130

blunt 170-086-130



CUSHING

Skin Hook, sharp

140mm, 5½"

170-015-140

KILNER

Skin Hook, sharp

150mm, 6"

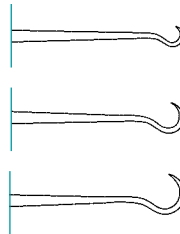
230-203-150

CLOWARD

Skin Hook, sharp

160mm, 6¼"

170-014-165



KLEINERT KUTZ

Skin Hook, sharp, 160mm, 6¹/₄"

Small, 3mm	170-020-001
Medium, 5mm	170-020-002
Large, 8mm	170-020-003



GILLIES

Skin Hook, 180mm, 7"

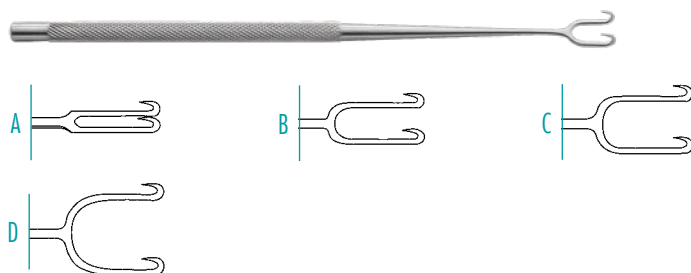
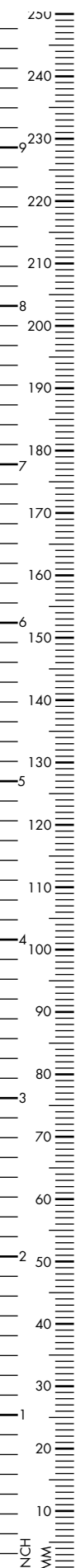
A Small	230-205-180
B Medium	230-207-180
C Large	230-209-180



JOSEPH

Skin Hook

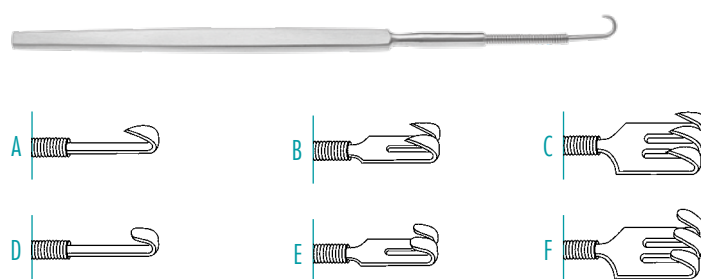
160mm, 6 ¹ / ₄ "	170-014-001
--	-------------



JOSEPH

Skin Hook, 2 prongs, 160mm, 6¹/₄"

A	2mm wide	170-014-002
B	5mm wide	170-014-005
C	7mm wide	170-014-007
D	10mm wide	170-014-010

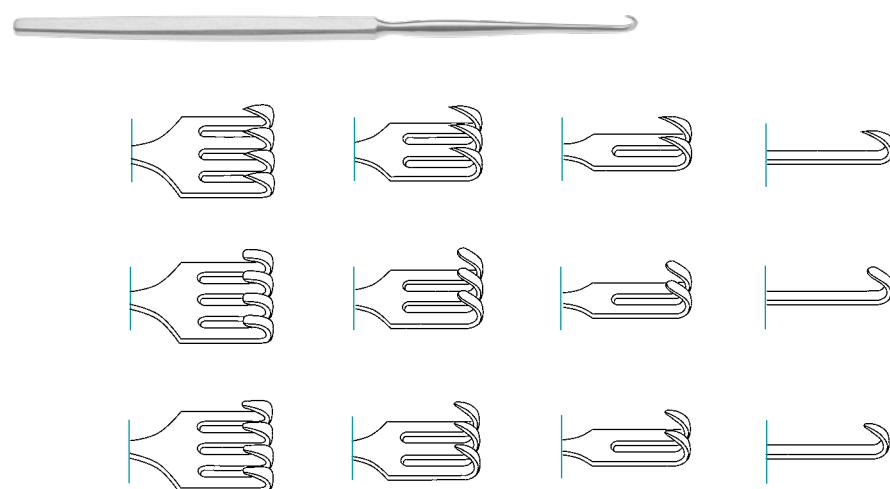


Skin Hook, flexible shaft
160mm, 6¹/₄", sharp

A	1 prong	170-079-161
B	2 prongs	170-079-162
C	3 prongs	170-079-163

blunt

D	1 prong	170-076-161
E	2 prongs	170-076-162
F	3 prongs	170-076-163



Hand Held Retractor, 160mm, 6¹/₄",
sharp

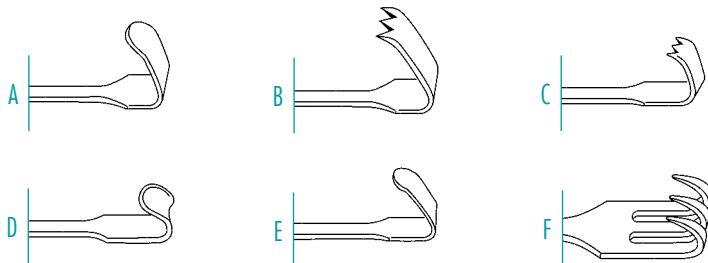
1 prong	170-074-161
2 prongs	170-074-162
3 prongs	170-074-163
4 prongs	170-074-164

blunt

1 prong	170-075-161
2 prongs	170-075-162
3 prongs	170-075-163
4 prongs	170-075-164

semi-blunt

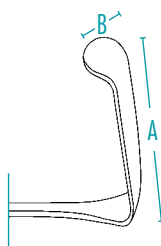
1 prong	170-077-161
2 prongs	170-077-162
3 prongs	170-077-163
4 prongs	170-077-164



MEYERDING

Hand Held Retractor, 180mm, 7"

A 18 x 7mm	170-079-181
B 16 x 5mm, prongs	170-079-182
C 7 x 4mm, prongs	170-079-183
D 10 x 3mm	170-079-184
E 7 x 4mm	170-079-185
F 4 x 10mm, 3 prongs	170-079-186



MINI LANGENBECK

Hand Held Retractor, 160mm, 6 1/4"

10 x 6mm (AxB)	170-130-160
17 x 5mm (AxB)	170-131-160
20 x 6mm (AxB)	170-132-160
22 x 8mm (AxB)	170-133-160



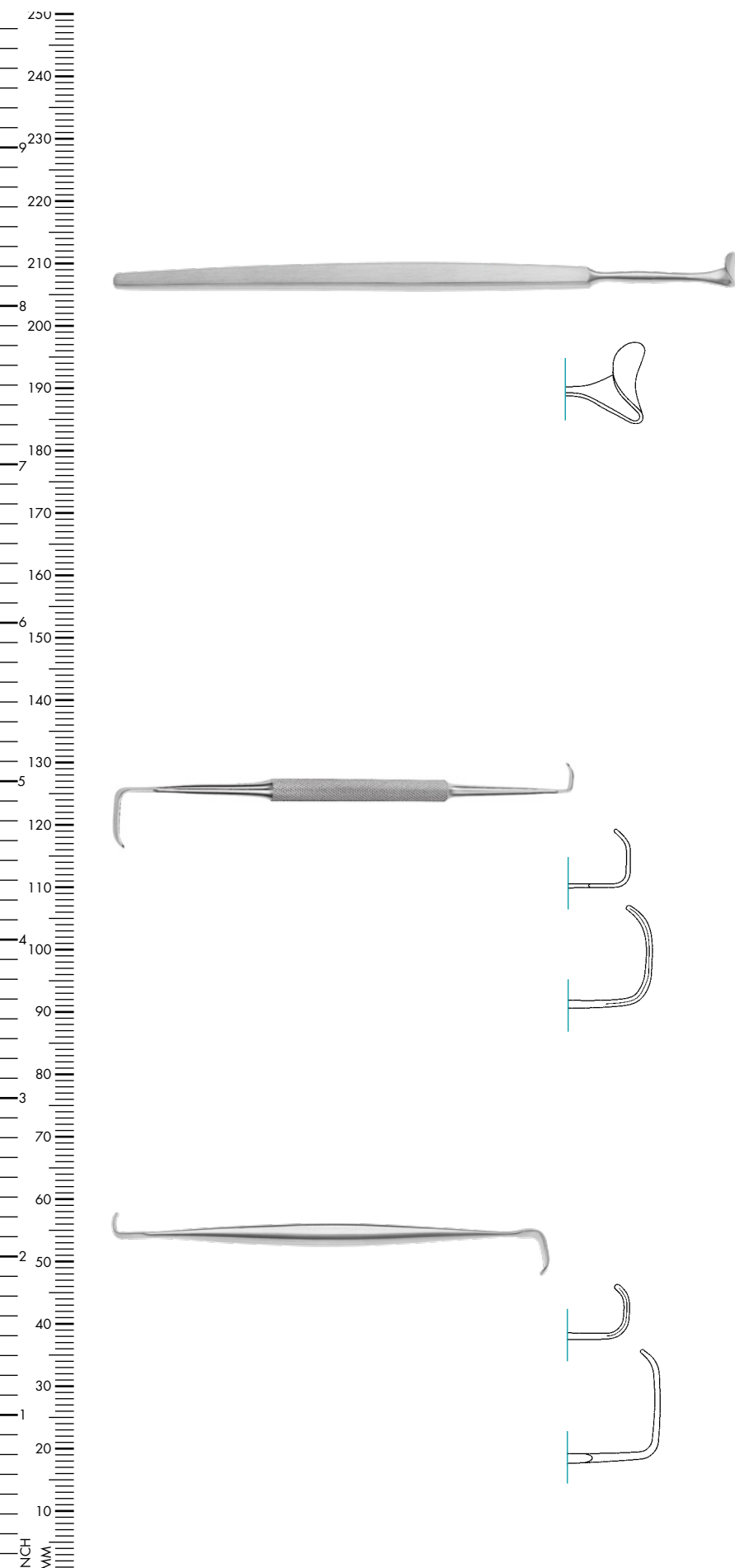
DESMARRES

Hand Held Retractor, 130mm, 5 1/8"

8mm	170-108-130
10mm	170-110-130
12mm	170-112-130
14mm	170-114-130
16mm	170-116-130
18mm	170-118-130

160mm, 6 1/4"

8mm	170-108-160
10mm	170-110-160
12mm	170-112-160
14mm	170-114-160
16mm	170-116-160
18mm	170-118-160



CUSHING

Vein Retractor, 200mm, 8"

8mm	170-231-080
10mm	170-231-100
12mm	170-231-120
14mm	170-231-140
16mm	170-231-160
18mm	170-231-180

240mm, 9^{1/2}"

8mm	170-233-080
10mm	170-233-100
12mm	170-233-120
14mm	170-233-140
16mm	170-233-160
18mm	170-233-180

RAGNELL

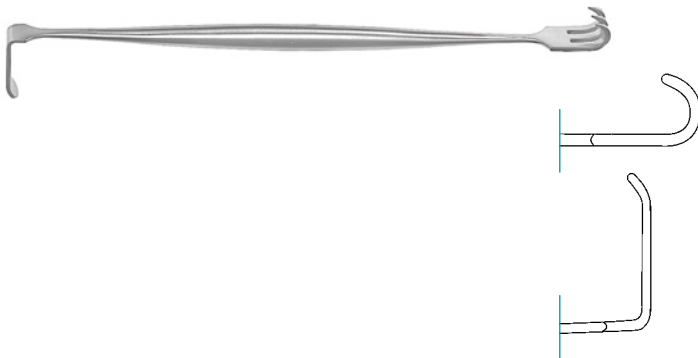
Hand Held Retractor, double ended,
8 x 3mm and 16 x 5mm blade

150mm, 6"	170-206-150
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RAGNELL DAVIS

Hand Held Retractor, double ended,
8 x 4mm and 15 x 5.5mm blade

140mm, 5 ^{1/2} "	170-207-140
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SENN MILLER

Hand Held Retractor,
8 x 7mm / 18 x 5.5mm, 160mm, 6¹/₄"

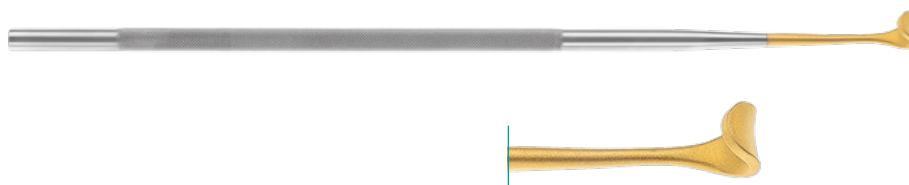
sharp	170-210-160
blunt	170-212-160



BABY SENN-MILLER

Hand Held Retractor,
8 x 7mm / 20 x 7mm, 155mm, 6¹/₈"

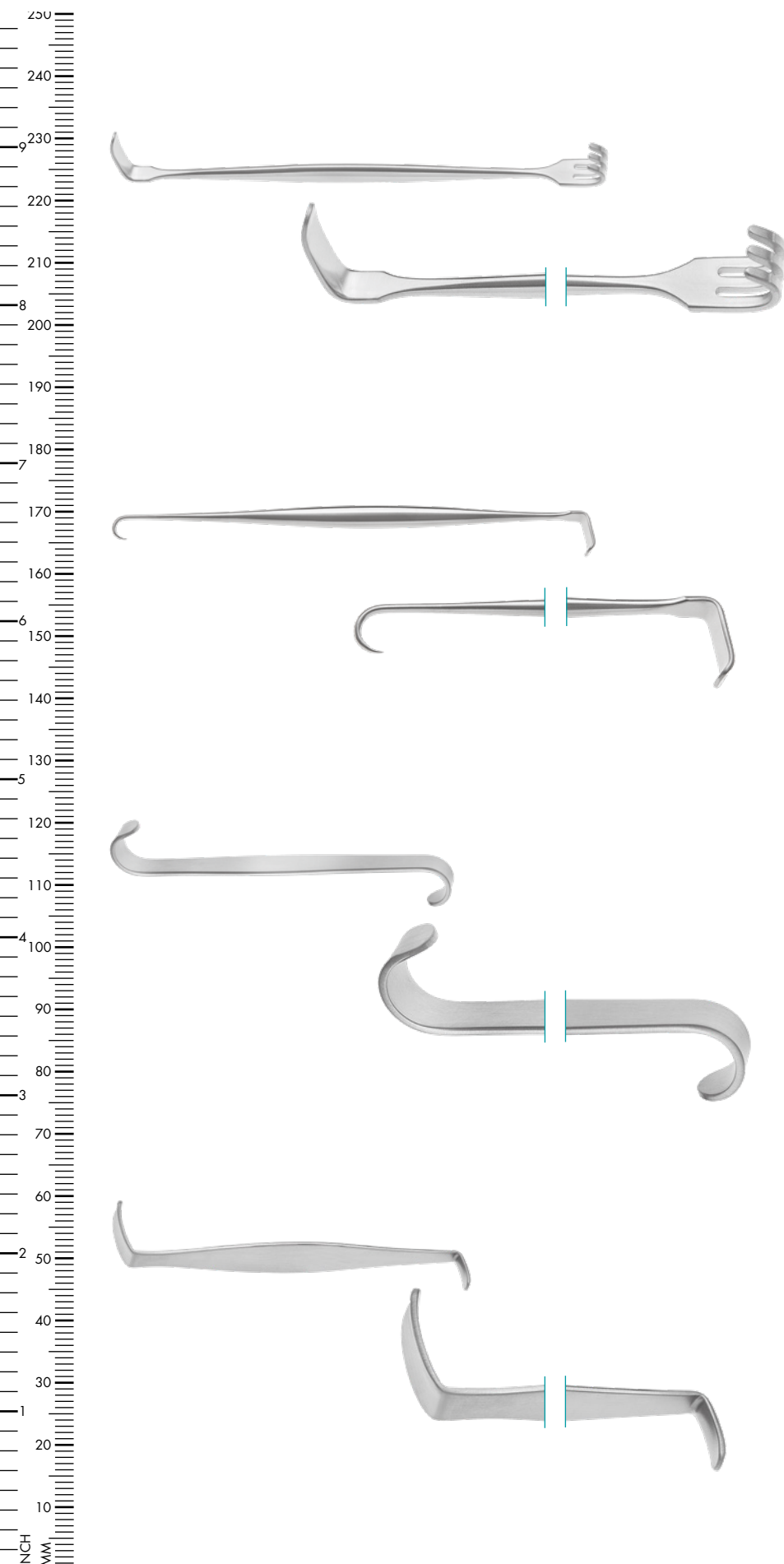
sharp	170-214-160
blunt	170-213-160



GIL VERNET

Hand Held Retractor, malleable
135mm, 5¹/₃"

11mm	170-236-111
200mm, 8"	
8mm	170-236-208
11mm	170-236-211
15mm	170-236-215
17mm	170-236-217



MATHIEU

Hand Held Retractor, 160mm, 6^{1/4}"
20 x 6.5mm, 8mm wide

blunt 170-002-160

MEYERDING

Hand Held Retractor and Skin Hook,
16 x 5mm

155mm, 6^{1/8}" 170-165-155

LUER

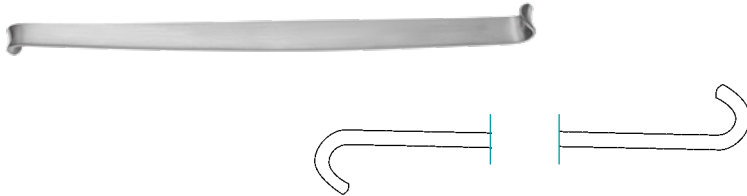
Retractor, 10.5 x 8mm / 8 x 7mm

110mm, 4^{1/3}" 170-671-110

CRILE

Retractor, 12 x 4mm / 20 x 6mm

115mm, 4^{1/2}" 170-670-115

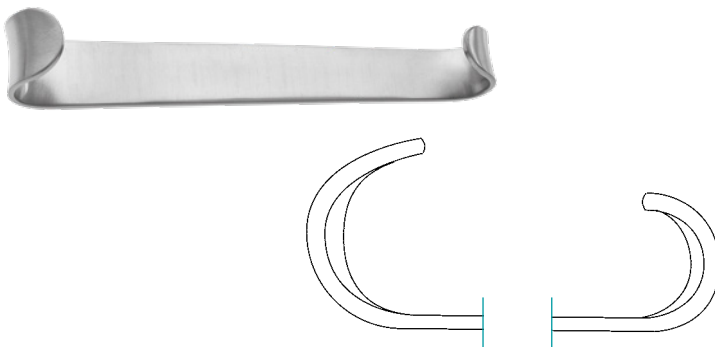


MINI ROUX

Retractor, double-ended, 6 x 7mm

140mm, 5^{1/2}"

170-667-006

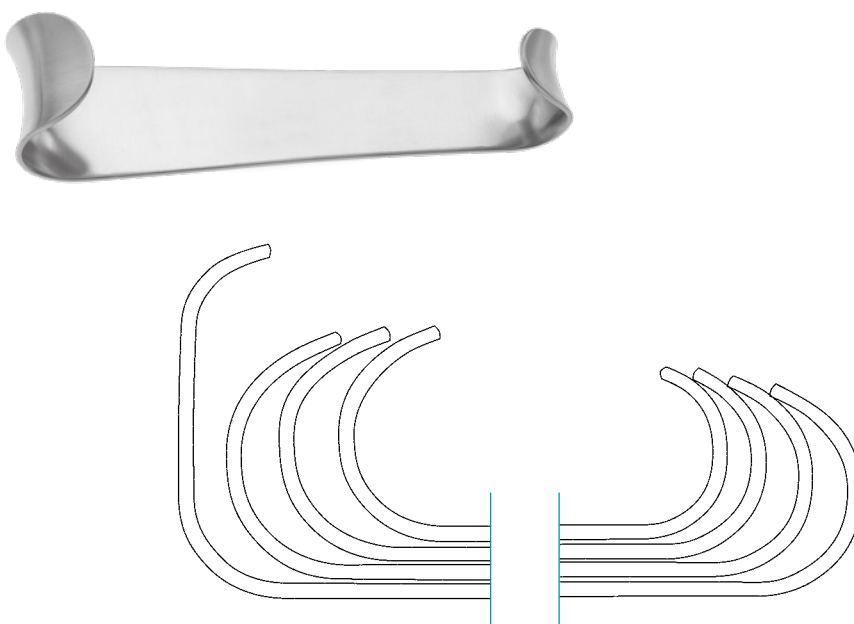


BABY ROUX

Retractor, 17 x 16mm / 18 x 22mm

130mm, 5^{1/8}"

170-669-130



ROUX

Retractor, 165mm, 6^{1/2}"

Fig. 1, 19 x 22mm 170-655-140

23 x 30mm

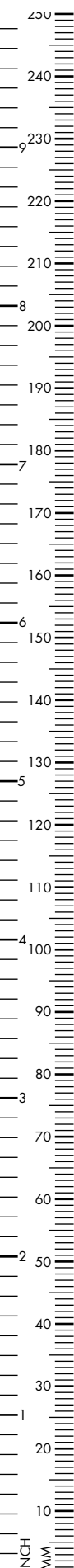
Fig. 2, 25 x 26mm 170-655-150

28 x 38mm

Fig. 3, 28 x 29mm 170-655-170

33 x 45mm

Set of Fig 1-3 170-655-000



FARABEUF

Retractor Set

Fig. 1 30 x 10mm / 26 x 10mm

Fig. 2 30 x 13mm / 34 x 13mm, Fig 2

120mm, 4^{3/4}" 170-663-120

Fig. 1 23 x 16mm / 27 x 16mm

Fig. 2 27 x 16mm / 30 x 16mm

150mm, 6" 170-665-150



PARKER

Retractor Set

19 x 15mm / 19 x 15mm

22 x 15mm / 22 x 15mm

140mm, 5^{1/2}" 170-673-001

26 x 25mm / 27 x 25 mm

29 x 25mm / 27 x 25 mm

185mm, 7^{1/4}" 170-673-002



COLLIN

Retractor Set

28 x 16mm / 32 x 16mm

145mm, 5^{3/4}" 170-666-145



PARKER MOTT

Retractor Set, Fig. 1 + 2

21 x 24mm / 68 x 24mm

15 x 24mm / 72 x 24mm

160mm, 6^{1/4}" 170-675-000



MATHIEU

Retractor Set

42 x 13mm / 42 x 26mm

47 x 13mm / 46 x 26mm

200mm, 8"

170-683-000



PARKER LANGENBECK (US ARMY)

Retractor Set

210mm, 8^{1/4}"

170-687-210

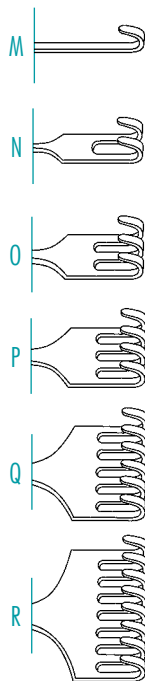
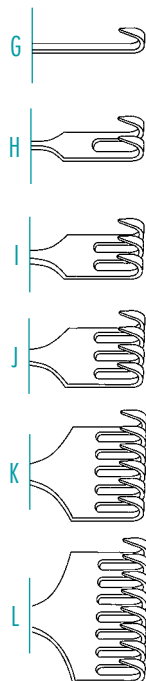
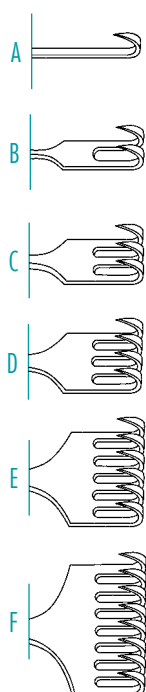


GOELET

Retractor, 40 x 40mm / 30 x 30mm

195mm, 7^{1/2}"

170-695-000



KOCHER

Retractor, 220mm, 8²/₃"
sharp

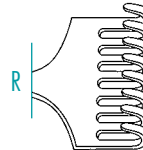
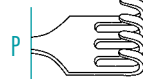
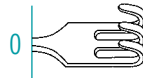
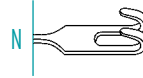
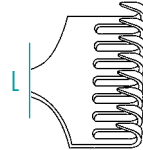
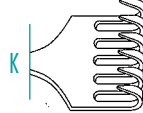
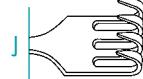
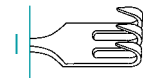
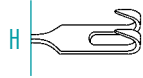
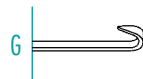
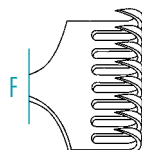
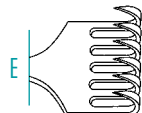
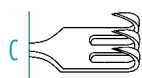
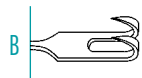
A 1 prong, 15mm	170-310-221
B 2 prongs, 9x8mm	170-310-222
C 3 prongs, 15x15mm	170-310-223
D 4 prongs, 15x20mm	170-310-224
E 6 prongs, 15x30mm	170-310-226
F 8 prongs, 15x40mm	170-310-228

semi - sharp

G 1 prong, 15mm	170-312-221
H 2 prongs, 9x8mm	170-312-222
I 3 prongs, 15x15mm	170-312-223
J 4 prongs, 15x20mm	170-312-224
K 6 prongs, 15x30mm	170-312-226
L 8 prongs, 15x40mm	170-312-228

blunt

M 1 prong, 15mm	170-311-221
N 2 prongs, 9x8mm	170-311-222
O 3 prongs, 15x15mm	170-311-223
P 4 prongs, 15x20mm	170-311-224
Q 6 prongs, 15x30mm	170-311-226
R 8 prongs, 15x40mm	170-311-228



VOLKMANN

Retractor, 215mm, 8 1/2"
sharp

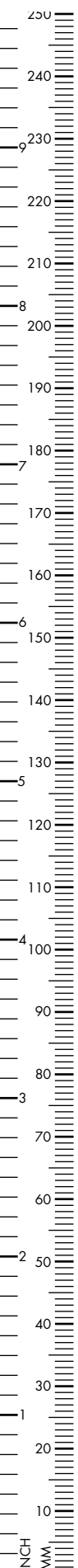
A	1 prong, 9mm	170-220-215
B	2 prongs, 9x8mm	170-222-215
C	3 prongs, 9x13mm	170-224-215
D	4 prongs, 9x19mm	170-226-215
E	6 prongs, 9x29mm	170-228-215
F	8 prongs, 9x40mm	170-230-215

semi - sharp

G	1 prong, 9mm	170-231-215
H	2 prongs, 9x8mm	170-233-215
I	3 prongs, 9x13mm	170-235-215
J	4 prongs, 9x19mm	170-237-215
K	6 prongs, 9x29mm	170-239-215
L	8 prongs, 9x40mm	170-241-215

blunt

M	1 prong, 9mm	170-221-215
N	2 prongs, 9x8mm	170-223-215
O	3 prongs, 9x13mm	170-225-215
P	4 prongs, 9x19mm	170-227-215
Q	6 prongs, 9x29mm	170-229-215
R	8 prongs, 9x40mm	170-232-215



VOLKMANN

Retractor, 115mm, 4 1/2"

sharp

2 prongs	170-140-002
3 prongs	170-140-003
4 prongs	170-140-004
6 prongs	170-140-006

blunt

2 prongs	170-141-002
3 prongs	170-141-003
4 prongs	170-141-004
6 prongs	170-141-006



MURPHY

Retractor, 200mm, 8"

sharp

2 prongs	170-218-102
3 prongs	170-218-103
4 prongs	170-218-104
6 prongs	170-218-106

blunt

2 prongs	170-218-202
3 prongs	170-218-203
4 prongs	170-218-204
6 prongs	170-218-206



OLLIER

Retractor, blunt, 230mm, 9"

3 prongs, 36 x 30mm	170-214-003
4 prongs, 36 x 60mm	170-214-004



ISRAEL

Retractor, blunt, 250mm, 9⁷/₈"

4 prongs, 40x40mm	170-220-004
5 prongs, 45x50mm	170-220-005
6 prongs, 50x60mm	170-220-006
6 prongs, 70x70mm	170-220-007



WASSMUND

Retractor

200mm, 8"	170-216-200
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KOERTE

Retractor, 40 x 30mm, 240mm, 9¹/₂"

sharp	170-218-008
blunt	170-219-008



KOERTE WAGNER

Retractor, 25 x 40mm, semi - sharp

280mm, 11"

170-220-280



LANGENBECK

Retractor, 210mm, 8 1/4"

55 x 20mm

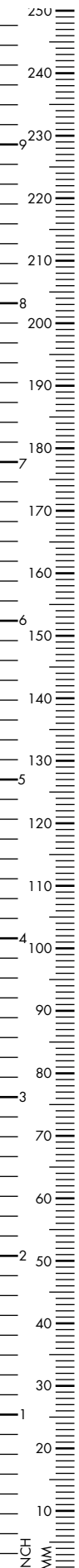
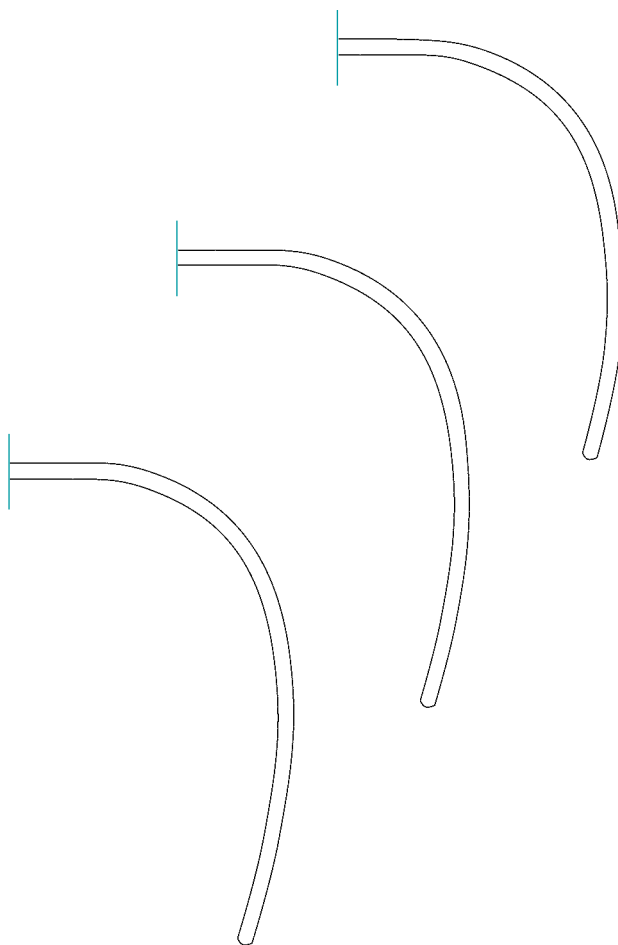
170-225-210

60 x 20mm

170-226-210

63 x 20mm

170-227-210



**LAHEY**

Retractor, 28 x 6mm

190mm, 7^{1/2}"

170-312-190

**LITTLE**

Retractor, 15 x 12mm

200mm, 8"

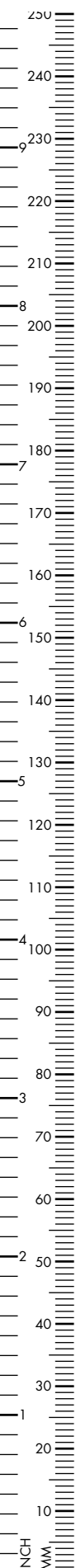
170-313-200

**GREEN**

Retractor, 20 x 23mm

220mm, 8^{2/3}"

170-319-220



MIDDELDORPF

Retractor, hollow handle

14 x 17mm	170-363-001
215mm, 8 ^{1/2} "	

20 x 22mm	170-363-002
220mm, 8 ^{2/3} "	

26 x 30mm	170-363-003
235mm, 9 ^{1/4} "	

fenestrated handle

14 x 17mm	170-325-001
215mm, 8 ^{1/2} "	

20 x 22mm	170-325-002
220mm, 8 ^{2/3} "	

26 x 30mm	170-325-003
235mm, 9 ^{1/4} "	



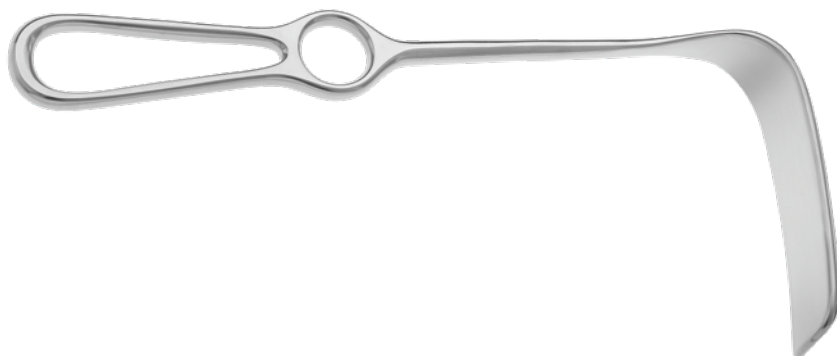
MIDDELDORPF

Abdominal Retractor, 255mm, 10"

40 x 45mm	170-443-001
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40 x 50mm	170-443-002
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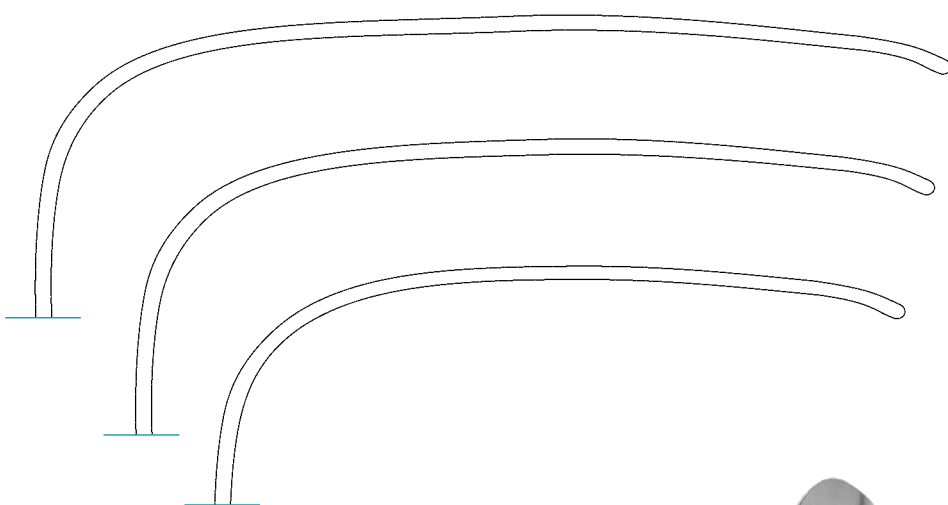
55 x 70mm	170-443-003
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DOYEN STILLE

Retractor, 240mm, 9^{1/2}"

120 x 55mm	170-440-001
110 x 40mm	170-440-002
90 x 30mm	170-440-003



FRITSCH

Retractor, 240mm, 9^{1/2}"

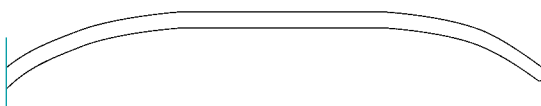
45 x 40mm	170-447-040
45 x 50mm	170-447-050
45 x 60mm	170-447-060
55 x 75mm	170-447-075
65 x 85mm	170-447-085

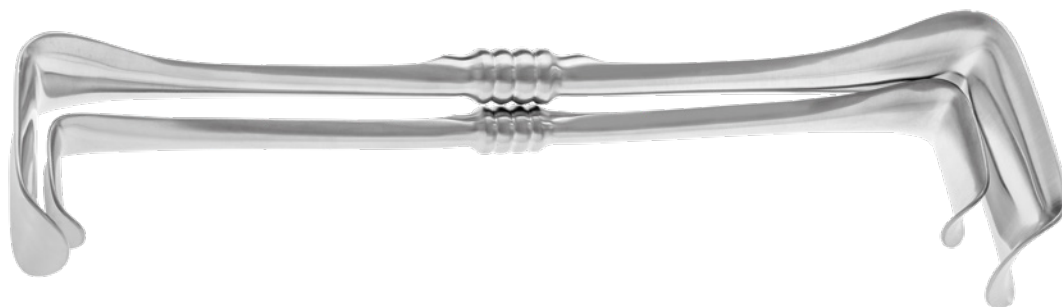


KOCHER

Retractor

70 x 25mm	170-449-225
220mm, 8 ^{2/3} "	
80 x 42mm	170-451-002
250mm, 9 ^{7/8} "	
80 x 50mm	170-451-003
250mm, 9 ^{7/8} "	
80 x 60mm	170-451-004
250mm, 9 ^{7/8} "	





RICHARDSON EASTMAN

Retractor, 260mm, 10¹/₄" / 280mm, 11"

Set (Fig. 1+2) 170-381-000

Fig. 1,
28 x 20mm /
36 x 28mm 170-381-001

Fig. 2,
40 x 38 mm /
71 x 43 mm 170-381-002



RICHARDSON

Retractor, loop handle, 240mm, 9¹/₂"

28 x 20mm 170-383-001

36 x 28mm 170-383-002

44 x 38mm 170-383-003

52 x 22mm 170-383-004



RICHARDSON

Retractor, hollow grip handle, 240mm, 9¹/₂"

20 x 25mm 170-386-001

38 x 38mm 170-386-003

19 x 51mm 170-386-004

41 x 64mm 170-386-005



KELLY

Retractor, loop handle, 240mm, 9¹/₂"

65 x 50mm	170-383-005
70 x 65mm	170-383-006
40 x 50mm	170-383-007
75 x 90mm	170-383-008
260mm, 10 ¹ / ₄ "	



KELLY

Retractor, hollow grip handle, 245mm, 9²/₃"

40 x 54mm	170-386-006
53 x 65mm	170-386-007
65 x 81mm	170-386-008



MURPHY

Gallbladder Retractor, 50mm blade

280mm, 11"	170-500-255
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DOYEN

Retractor, 50x85mm

250mm, 9⁷/₈"

170-461-250



DOYEN

Retractor, slightly concave, 220mm, 8²/₃"

Fig. 2, 85 x 35mm

350-290-002

Fig. 3, 115 x 35mm

350-290-003

Fig. 1, 55 x 45mm

350-290-004

Fig. 2, 85 x 45mm

350-290-005

Fig. 3, 115 x 45mm

350-290-006

Fig. 4, 160 x 45mm

350-290-007

Fig. 1, 55 x 60mm

350-290-008

Fig. 2, 85 x 60mm

350-290-009

Fig. 3, 115 x 60mm

350-290-010

Fig. 4, 160 x 60mm

350-290-011



MAYO

Retractor, 70mm blade

275mm, 10⁷/₈"

170-070-275



WEINBERG

Vagotomy Retractor

155 x 93mm / 54 x 51mm blades

220mm, 8²/₃"

170-800-220



MORRIS

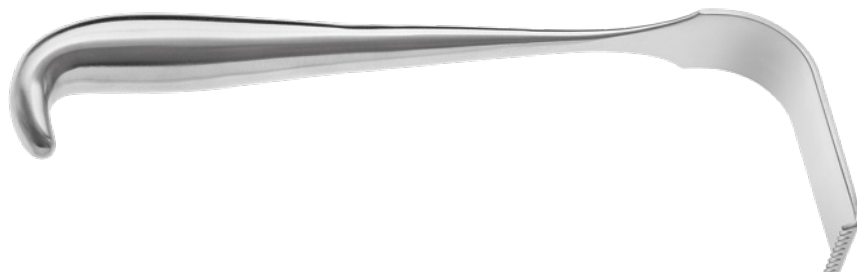
Retractor, 245mm, 9²/₃"

70 x 38mm

170-465-380

70 x 50mm

170-465-510



MEYERDING

Retractor, 225mm, 8^{7/8}"

90 x 50mm	170-490-500
75 x 25mm	170-475-160
50 x 16mm	170-450-160



HIBBS

Retractor, 230mm, 9"

25 x 13mm	170-200-000
75 x 25mm	170-200-001
80 x 25mm	170-200-002



SIMON

Retractor, 280mm, 11"

115 x 22mm	170-457-001
115 x 27mm	170-457-002



BRUNNER

Retractor, 210mm, 8^{1/4}"

80 x 20mm	170-471-108
100 x 20mm	170-471-110
120 x 25mm	170-471-112
140 x 25mm	170-471-114
160 x 30mm	170-471-116
180 x 30mm	170-471-118

250mm, 9^{7/8}"

80 x 20mm	170-471-008
100 x 20mm	170-471-010
120 x 25mm	170-471-012
140 x 25mm	170-471-014
160 x 30mm	170-471-016
180 x 30mm	170-471-018



MIKULICZ

Retractor, 90 x 50mm

260mm, 10 ^{1/4} "	170-607-260
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MIKULICZ

Retractor, 260mm, 10^{1/4}"

85 x 35mm	170-489-001
120 x 50mm	170-489-002
150 x 50mm	170-489-003



KELLY

Retractor, 270mm, 10²/₃"

160 x 38mm	170-531-260
160 x 57mm	170-530-260
190 x 38mm	170-533-260
190 x 57mm	170-532-260



CORYLLOS

Retractor, 240mm, 9¹/₂"

115 x 65mm	170-461-003
108 x 43mm	170-461-002
82 x 22mm	170-461-001



SAUERBRUCH

Retractor, 125 x 37mm

250mm, 9 ⁷ / ₈ "	170-465-250
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ZENKER

Retractor

250mm, 9 ⁷ / ₈ "	170-319-250
35 x 8mm	
260mm, 10 ¹ / ₄ "	170-319-260
60 x 12mm	
275mm, 10 ⁷ / ₈ "	170-319-270
75 x 12mm	



SEMB

Retractor, 250mm, 9⁷/₈"

Fig. 1, 25 x 25mm	170-462-001
3 prongs	
Fig. 2, 25 x 20mm	170-462-002
4 prongs	



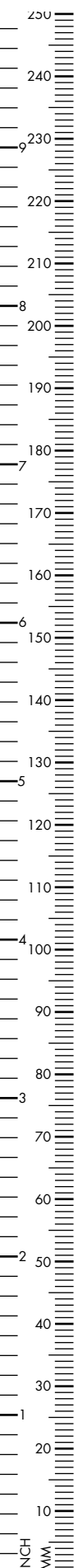
LANGENBECK

Retractor, solid handle, 220mm, 8²/₃"

30 x 11mm	170-222-220
30 x 14mm	170-222-221
30 x 16mm	170-222-222
40 x 11mm	170-222-223
50 x 11mm	170-222-224

fenestrated handle

30 x 11mm	170-293-001
30 x 14mm	170-293-002
30 x 16mm	170-293-003
40 x 11mm	170-293-004
50 x 11mm	170-293-005



KOCHER LANGENBECK

Retractor, 215mm, 8^{1/2}"

22 x 6mm	170-317-022
25 x 8mm	170-317-025
25 x 6mm	170-317-026
35 x 8mm	170-317-035
35 x 11mm	170-317-036
35 x 15mm	170-317-037
40 x 11mm	170-317-040
55 x 11mm	170-317-055
70 x 15mm	170-317-070
80 x 12mm	170-317-080
80 x 15mm	170-317-081



KOCHER

Retractor, 230mm, 9"

40 x 18mm	170-315-018
60 x 20mm	170-315-020
60 x 25mm	170-315-025
75 x 30mm	170-315-030
75 x 40mm	170-315-040



SAUERBRUCH

Retractor, 225mm, 8^{7/8}"

Fig. 1, 44 x 16mm	170-561-001
Fig. 2, 55 x 22mm	170-561-002
Fig. 3, 72 x 19mm	170-561-003



HARRINGTON

Retractor, 320mm, 12^{1/2}"

127 x 40mm	170-481-040
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127 x 62mm	170-481-062
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HARRINGTON PEMBERTON

Retractor, 295mm, 11^{2/3}"

175 x 64mm	170-481-295
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WYLIE

Retractor, 310mm, 12^{1/4}"

25 x 100mm	170-430-001
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25 x 180mm	170-430-002
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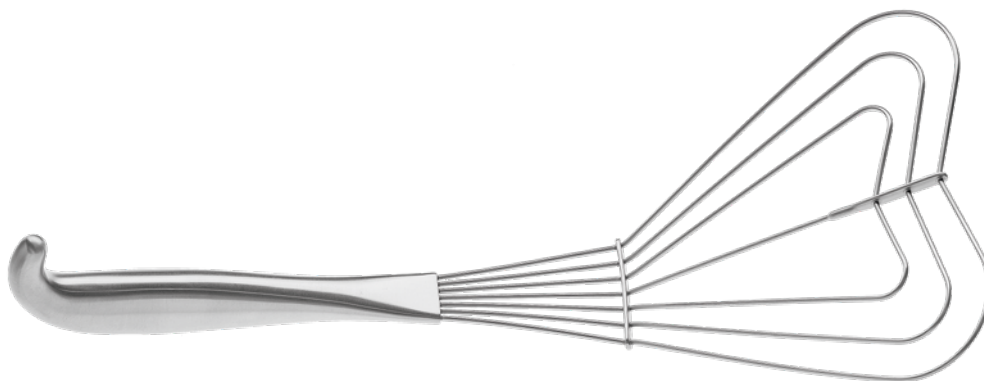
ALLISON

Lung Spatula, 40mm

300mm, 11⁷/₈" 290-505-300

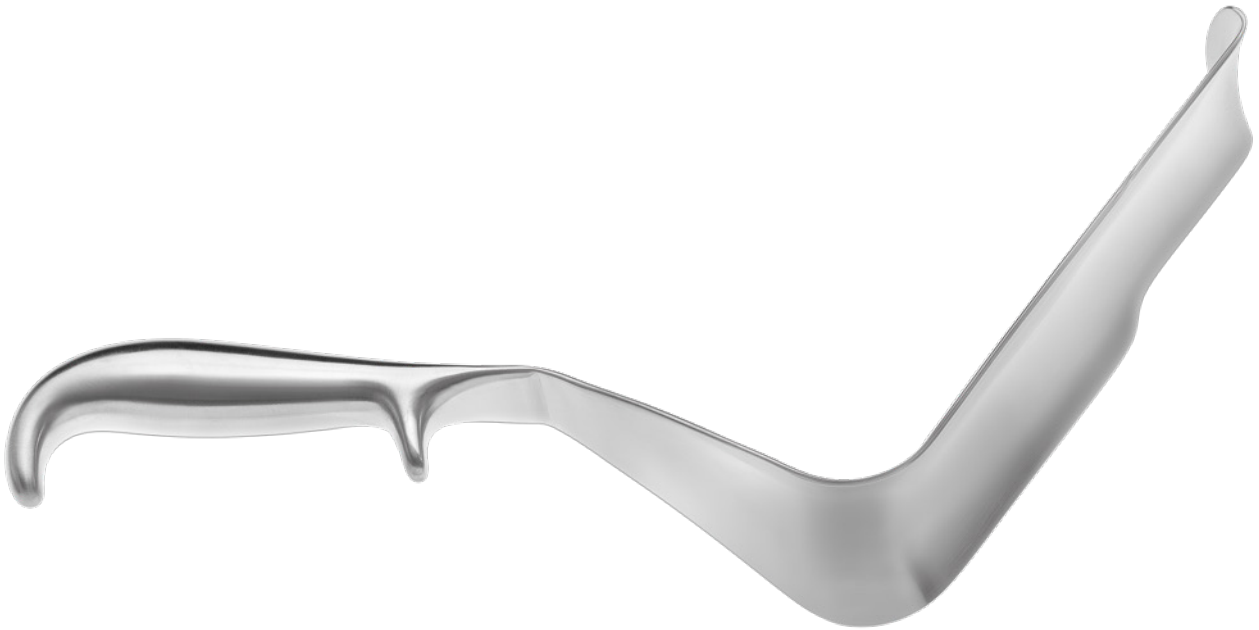
54mm

320mm, 12¹/₂" 290-505-320



Lung Spatula

300mm, 11⁷/₈" 290-511-260



ST. MARKS

Pelvic Retractor with lip,
130x60mm

290mm, 11 ^{1/2} "	170-493-001
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180x60mm	
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330mm, 13"	170-493-002
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180x60mm, without lip	
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330mm, 13"	170-493-003
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LERICHE

Retractor, 275mm, 10^{7/8}"

45mm	170-245-275
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60mm	170-260-275
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KUEMMEL

Abdominal Retractor, 100 x 45mm

280mm, 11"

170-621-280

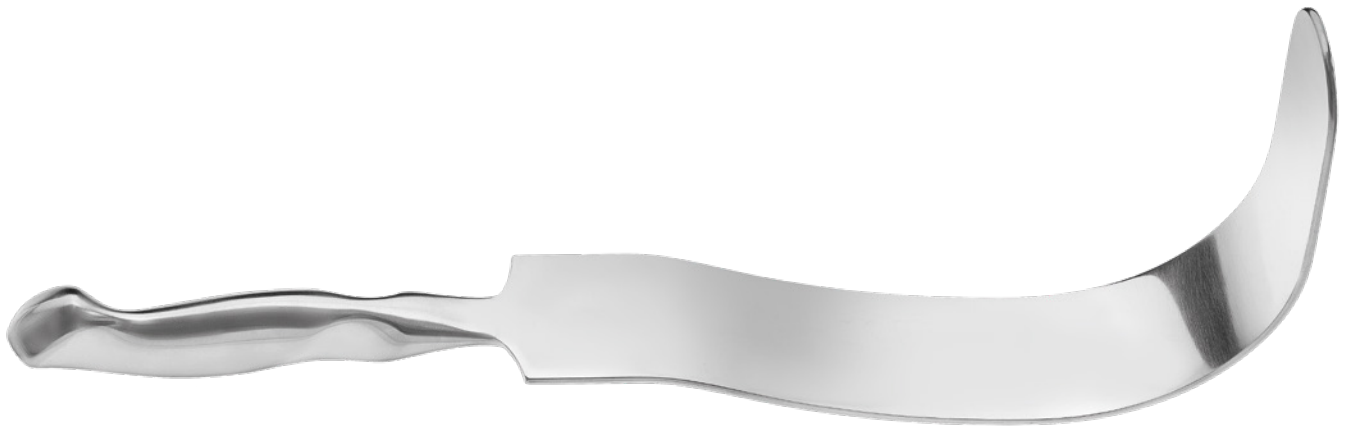


KOERTE

Abdominal Retractor, 120 x 47mm

280mm, 11"

170-617-280



DEAVER FORD

Retractor with lip, 420mm, 16¹/₂"

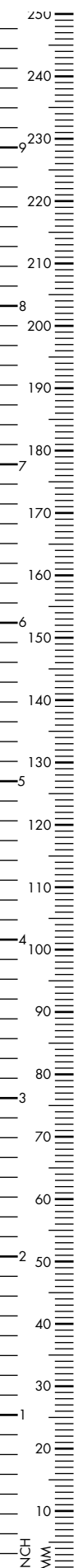
255 x 150 x 50mm	170-420-050
255 x 150 x 75mm	170-420-075
255 x 150 x 100mm	170-420-100



DEAVER

Retractor, hollow handle, 250mm, 9⁷/₈"

25 x 254mm	170-483-024
25 x 300mm	170-483-025
38 x 300mm	170-483-038
50 x 310mm	170-483-050
75 x 300mm	170-483-075
100 x 300mm	170-483-100



DEAVER

Retractor, smooth working end,
180mm, 7"

19mm	170-591-180
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serrated working end

19mm	171-591-180
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smooth working end,
215mm, 8^{1/2}"

22mm	170-591-215
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serrated working end

22mm	171-591-215
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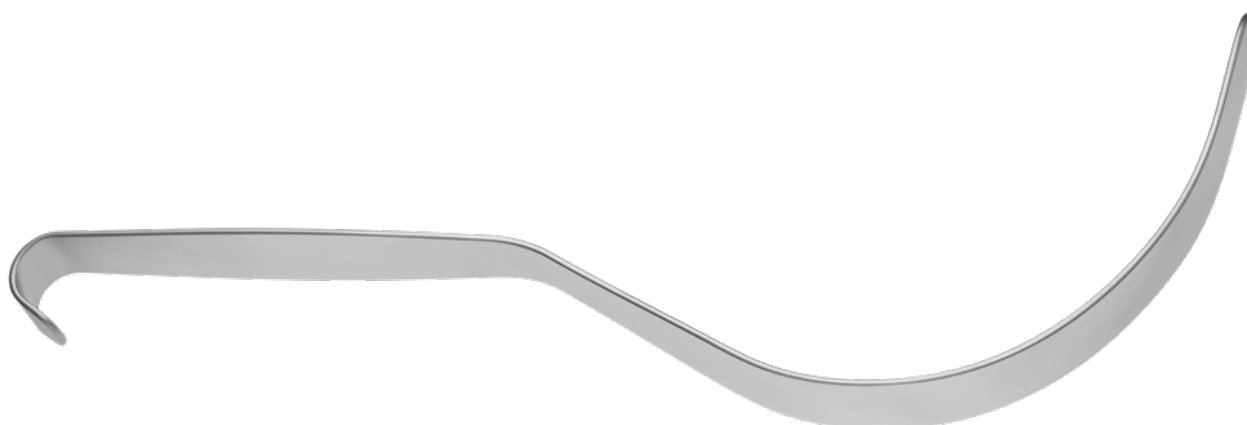
DEAVER

Retractor, smooth working end,
230mm, 9"

25mm	170-591-230
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serrated working end,
230mm, 9"

25mm	171-591-230
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DEAVER

Retractor, smooth working end, 25mm

300mm, 11 ^{7/8} "	170-591-300
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330mm, 13"	170-591-330
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360mm, 14 ^{1/8} "	170-591-360
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300mm, 11 ^{7/8} "	
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38mm	170-593-300
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50mm	170-595-300
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75mm	170-597-300
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100mm	170-598-300
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serrated working end, 25mm

300mm, 11 ^{7/8} "	171-591-300
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330mm, 13"	171-591-330
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360mm, 14 ^{1/8} "	171-591-360
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300mm, 11 ^{7/8} "	
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38mm	171-593-300
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50mm	171-595-300
------	-------------

75mm	171-597-300
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DEAVER

Retractor

25x265mm

170-025-265



DEAVER

Retractor, pediatric size

10x180mm

170-010-180



DEAVER

Retractor, pediatric size, 170mm, 6²/₃"

8mm

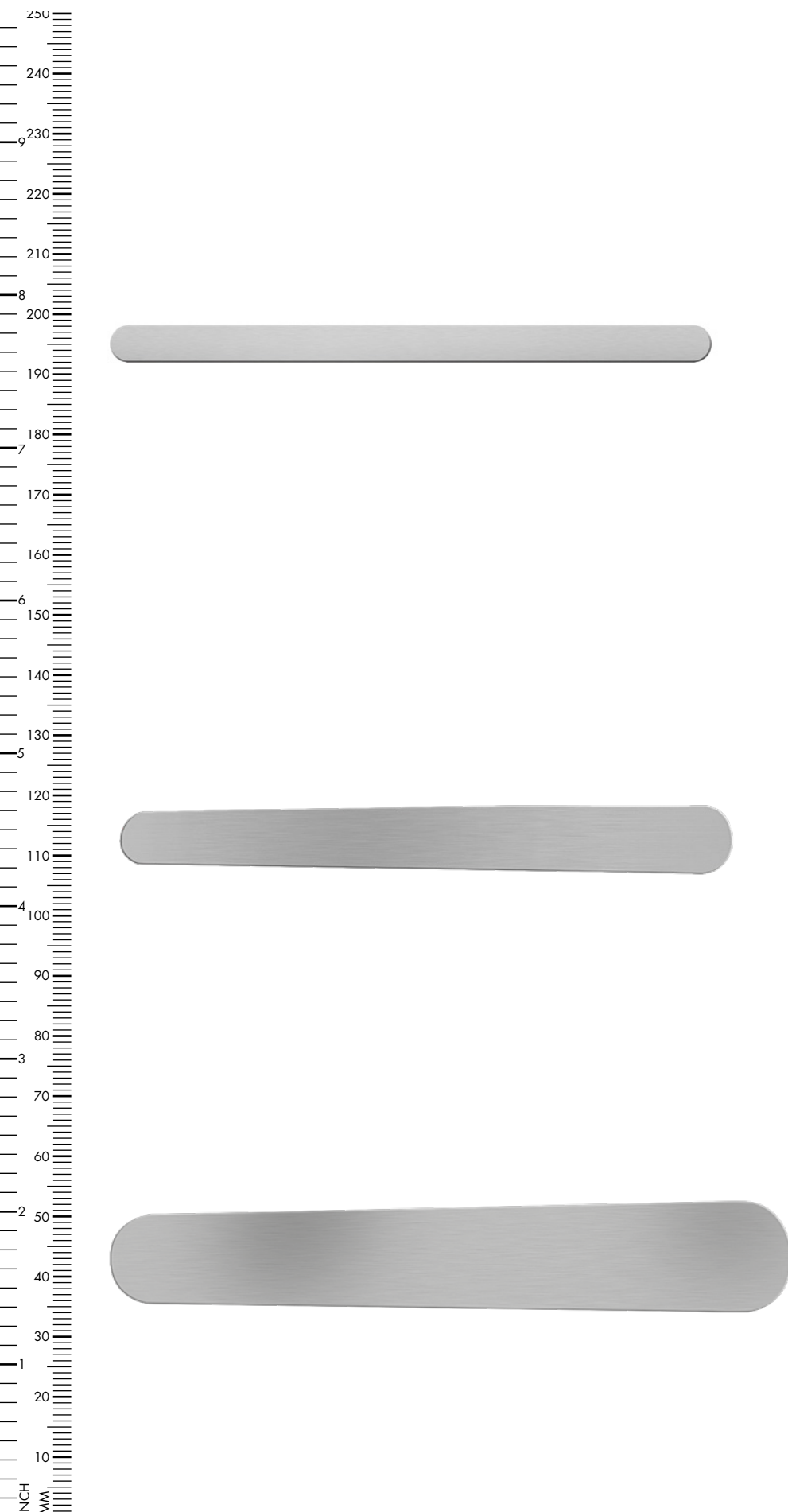
170-008-170

10mm

170-010-170

15mm

170-015-170



RIBBON

Abdominal Retractor, malleable

200 x 6mm	170-973-006
200 x 12mm	170-973-012
200 x 17mm	170-973-017
200 x 20mm	170-973-020
250 x 25mm	170-973-025

330 x 13mm	170-963-013
330 x 20mm	170-963-019
330 x 25mm	170-963-025
330 x 32mm	170-963-032
330 x 40mm	170-963-040
330 x 50mm	170-963-050

TUFFIER

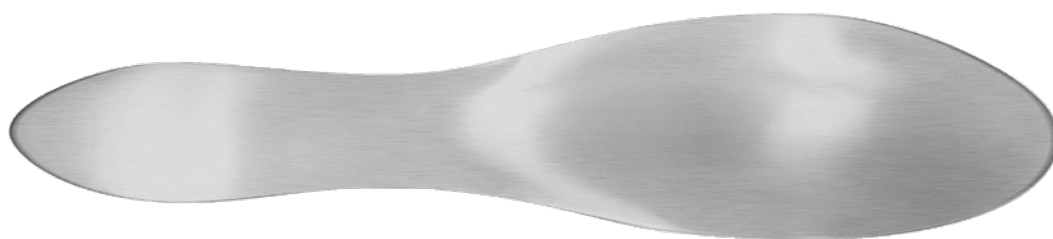
Abdominal Retractor, malleable

200 x 25mm	170-975-250
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HABERER

Abdominal Retractor, malleable

280 x 3 5mm 25/30mm	170-971-250
300 x 37mm 37/45mm	170-971-300
300 x 40mm 40/50mm	170-971-370



REVERDIN

Abdominal Retractor

280 x 45/60mm 170-953-280



RIBBON

Retractor, hollow handle, 460mm, 18"

19mm	170-964-019
25mm	170-964-025
32mm	170-964-032
38mm	170-964-038
51mm	170-964-050

