



SECTION

B

RETRACTORS,
SKIN AND
BONE HOOKS



O'Connor
170-040-160
Fine Wound Retractor
120mm, 4 ³/₄"



Graefe
Skin Hook
125mm, 5"

170-010-125

Sharp



170-011-125

Blunt



Frazier
170-013-130 sharp
170-014-130 blunt
Dura-Hook
130mm, 5"



Mannerfelt
420-556-135
Hook, sharp
135mm, 5 ¹/₄"



Jaeger
Fine Wound Hook
130mm, 5"

170-012-130

large



170-012-131

small



Cushing
170-015-140
Fine Wound Retractor
140mm, 5 ¹/₂"



Kilner
230-203-150
Fine Wound Retractor
150mm, 6"



Kilner (Catspaw)
230-203-002
Fine Wound Retractor
150mm, 6"



Cottle
Tenaculum Hook
150mm, 6"

230-285-160
120° retrograde curved

230-286-160
180° retrograde curved



Kleinert-Kutz
Retractor
160mm, 6¹/₄"



170-020-001
Fig.1



170-020-002
Fig.2



170-020-003
Fig.3



Skin Hook
160mm, 6¹/₄"



170-015-160
Fig.1



170-016-160
Fig.2



170-017-160
Fig.3



170-018-160
Fig.4



Cloward
170-014-165
Fine Wound Retractor, sharp
165mm, 6¹/₂"



Niro
Wound Retractor, sharp
170mm, 6³/₄"



170-041-001
Fig.1



170-041-002
Fig.2



170-041-003
Fig.3



170-041-004
Fig.4



Mannerfelt
420-557-135
Hook, sharp
135mm, 5 1/4"



Mannerfelt
420-557-155
Hook, sharp
155mm, 6"



Mannerfelt (mod.)
420-563-011
Retractor, sharp
155mm, 6"



Mannerfelt (mod.)
420-567-155
Retractor, sharp, small curve
flexible shaft
155mm, 6"



Mannerfelt
Hook, sharp
small curve
155mm, 6"



420-563-001



420-563-002



420-563-003



Mannerfelt
Hook, blunt
small curve
155mm, 6"



420-564-001



420-564-002



420-564-003



Mannerfelt
Hook, sharp
large curve
155mm, 6"



420-565-001



420-565-002



420-565-003



Mannerfelt
Hook, blunt
large curve
155mm, 6"



420-566-001



420-566-002



420-566-003



Gillies
170-237-175
Square Handle Hook, sharp
175mm, 6³/₄"



170-079-175
Square Handle Hook, sharp
175mm, 6³/₄"



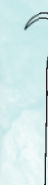
Gillies
Fine Wound Retractor, sharp
180mm, 7"



230-205-180
Fig. 1



230-207-180
Fig. 2



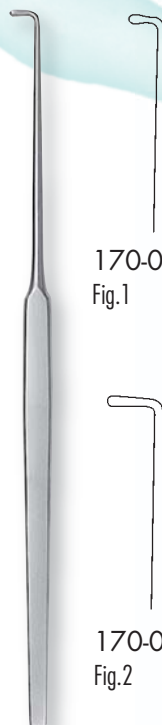
230-209-180
Fig. 3



Penn-Humby
170-021-115
Double Skin Hook, sharp
115mm, 4¹/₂"



Barsky
170-019-000
170-020-000 detachable
Fine Wound Retractor
150mm, 6"
170-020-100
Double Hook tip only



Cushing
Nerve Hook
190mm, 7¹/₂"

170-060-001
Fig. 1

170-060-002
Fig. 2



Joseph
Hooklet, sharp
160mm, 6^{1/4}"



170-014-001
1 prong, 150mm



170-014-002
2 prongs, 2mm wide



170-014-005
2 prongs, 5mm wide



170-014-007
2 prongs, 7mm wide



170-014-010
2 prongs, 10mm wide



Lahey
170-033-120 2 Hooks
170-034-120 3 Hooks
Wound Retractor, sharp
120mm, 4^{3/4}"



Freer
230-220-001 sharp prongs
230-220-002 blunt prongs
Skin Hook, 2.5mm wide
150mm, 6"



Guthrie
170-042-160 sharp
170-044-160 blunt
Hook
160mm, 6^{1/4}"



RZ
170-122-175 blunt
170-123-175 sharp
Square Handle Hook
175mm, 6^{3/4}"



Cottle
230-281-140 ball on right tip
230-282-140 ball on left tip
Hooklet
140mm, 5¹/₂"



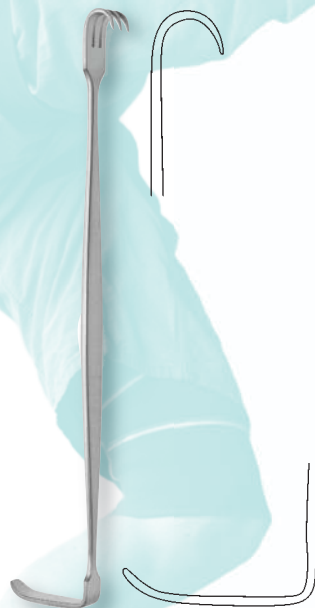
Fomon
230-280-160
Hooklet
160mm, 6¹/₄"



Fomon
230-780-160
Hooklet, insulated
160mm, 6¹/₄"



Cottle-Neivert
230-260-200
Double-Ended Retractor
220mm, 8³/₄"



Baby Senn-Miller
170-214-160 sharp
170-213-160 blunt
Retractor, 7x20mm
160mm, 6¹/₄"



260-210-130
Rake Retractor
115mm, 4¹/₂"



Mannerfelt (mod.)
420-570-160
Tendon Double Hook
160mm, 6¹/₄"



Mannerfelt (mod.)
420-578-160
Double spatula
160mm, 6¹/₄"



Mannerfelt (mod.)
Forked Hook,
retrograde curved
155mm, 6"

420-562-002



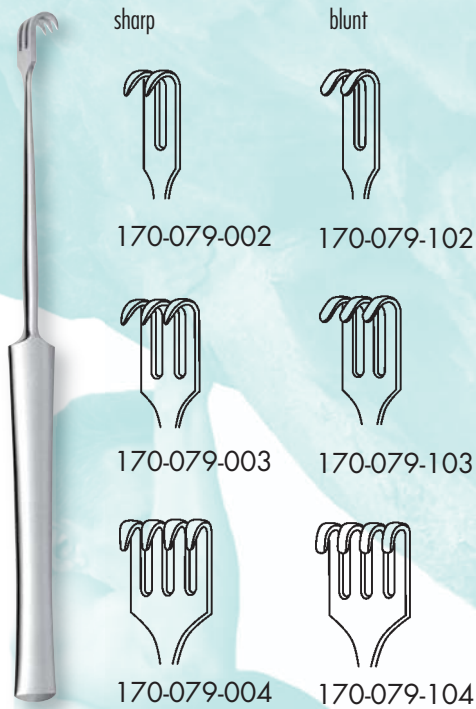
420-562-001



Stack
230-195-175 15mm
230-195-230 23mm
Square Handle Fork Retractor
15mm reach
175mm, 6³/₄"



170-275-175
Square Handle Retractor
15mm blade length
175mm, 6³/₄"



Rainer
Schwalbenschwanz
Wound Retractor
180mm, 7"



Blair (Rollet)
400-287-004 sharp
400-287-044 blunt
Retractor, 4 prongs,
6mm wide
135mm, 5^{1/4}"



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

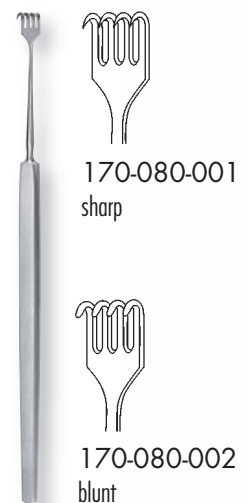
170-079-162	2 prongs	sharp
170-076-162	2 prongs	blunt
170-079-163	3 prongs	sharp
170-076-163	3 prongs	blunt
170-079-164	4 prongs	sharp
170-076-164	4 prongs	blunt



Miller
170-081-135
Fine Wound Retractor
6 teeth, sharp,
with extra deep teeth
135mm, 5^{1/4}"



Miller
170-085-130 sharp
170-086-130 blunt
Fine Wound Retractor, 9 teeth
130mm, 5"



Knapp
Fine Wound Retractor
130mm, 5"

sharp



170-074-161



170-074-162



170-074-163



170-074-164

semi-sharp



170-077-161



170-077-162



170-077-163



170-077-164

blunt



170-075-161



170-075-162



170-075-163



170-075-164



170-879-175
Square Handle Hook, 5 prongs
175mm, 6^{3/4}"

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

sharp



170-074-261



170-074-262

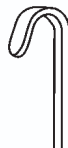


170-074-263



170-074-264

blunt



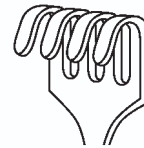
170-075-261



170-075-262



170-075-263



170-075-264



Retractor
170mm, 6^{3/4}"



sharp



170-220-215



semi-sharp



170-231-215



blunt



170-221-215



170-222-215



170-233-215



170-223-215



170-224-215



170-235-215



170-225-215



170-226-215



170-237-215



170-227-215



170-228-215



170-239-215



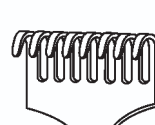
170-229-215



170-230-215



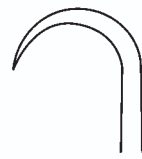
170-241-215



170-231-215



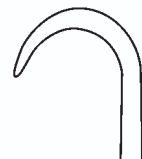
Volkman
Retractor
215mm, 8 1/2"



sharp



170-310-221



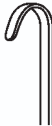
semi-sharp



170-312-221



blunt



170-311-221



170-310-222



170-312-222



170-311-222



170-310-223



170-312-223



170-311-223



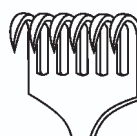
170-310-224



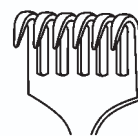
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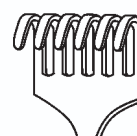
170-311-224



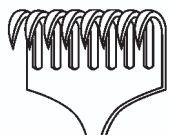
170-310-226



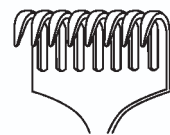
170-312-226



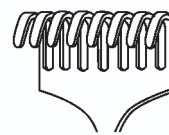
170-311-226



170-310-228



170-312-228



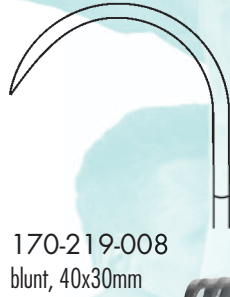
170-311-228



Kocher
220mm, 8⁵/₈"



170-218-008
sharp, 40x30mm

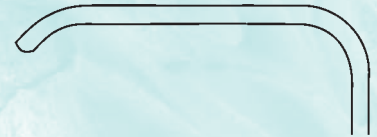


170-219-008
blunt, 40x30mm

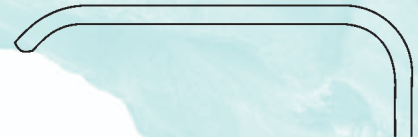
Koerte
Retractor, 8 prongs
240mm, 9¹/₂"



170-220-004
4 prongs, 40x40mm



170-220-005
5 prongs, 45x50mm



170-220-006
6 prongs, 50x60mm



170-220-007
6 prongs, 70x70mm

Israel
Retractor
250mm, 9³/₄"



Koerte-Wagner
170-220-280
Retractor, 8 prongs,
semi-sharp, 25x40mm
280mm, 11"



Senn-Miller
170-210-160
170-212-160
Retractor, 7x8.5mm
160mm, 6^{1/4}"

sharp
blunt



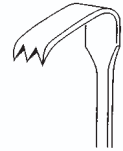
Ragnell-Davis
170-207-140
Retractor, 8x4mm / 15x5.5mm
140mm, 5^{1/2}"



Ragnell
170-206-150
Retractor, 8x3mm / 16x5mm
150mm, 6"



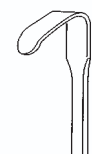
170-079-181
18x7mm



170-079-182
16x5mm, serrated



170-079-183
7x4mm, serrated



170-079-184
10x3mm



170-079-185
7x4mm



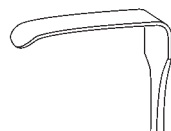
170-079-186
4x10mm, 3 prongs



Meyerding
Retractor
180mm, 7"



170-209-150
10x6mm



170-208-150
20x6mm

Senn-Green
Retractor
150mm, 6"



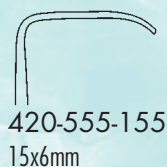
Buck-Gramcko
170-296-175
Square Handle Retractor
6x25mm
175mm, 6^{3/4}"



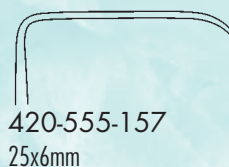
Moberg
170-136-175
Square Handle Retractor
5x17mm
175mm, 6^{3/4}"



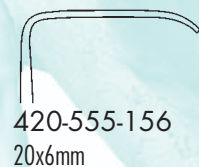
Mannerfelt-Langenbeck
Retractor
155mm, 6"



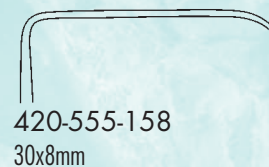
420-555-155
15x6mm



420-555-157
25x6mm



420-555-156
20x6mm



420-555-158
30x8mm



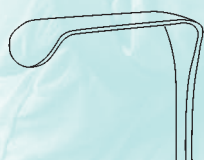
Mannerfelt (mod.)
420-568-155
Retractor, 16x6mm
with hollow groove
155mm, 6"



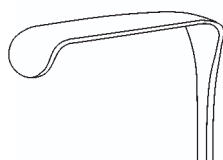
Mini-Langenbeck
Retractor
160mm, 6^{1/4}"



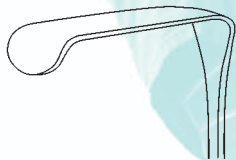
170-130-160
10x6mm



170-131-160
17x5mm



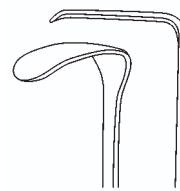
170-132-160
20x6mm



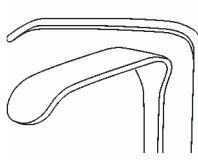
170-133-160
22x8mm



Langenbeck-Green
Retractor
160mm, 6^{1/4}"



170-314-160
16x6mm



170-314-240
24x6mm



Little
170-313-200
Retractor, 12x15mm
200mm, 8"



Desmarres
Retractor
130mm, 5''

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



Desmarres
Retractor
160mm, 6 1/4''

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



Desmarres
Blepharoplasty Retractor,
insulated

	Blade width	
170-510-130	10mm	130mm, 5''
170-513-145	13mm	140mm, 5 1/2''
170-512-160	12mm	160mm, 6 1/4''
170-513-160	13mm	160mm, 6 1/4''



Masing
420-520-140
420-520-141 insulated
Alar Retractor, 6x12mm
140mm, 5 1/2''



Cottle
420-523-140
420-523-141 insulated
Alar Retractor, 10x12mm
140mm, 5 1/2''

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



Cushing
Retractor
200mm, 7^{3/4}"



Mannerfelt-Saddle
Retractor
155mm, 6"



420-556-155
12x12mm



420-556-156
12x14mm



420-556-157
14x16mm



Kasden
170-130-165
171-130-165 insulated
Retractor, Double-ended
165mm, 6^{1/4}"



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

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

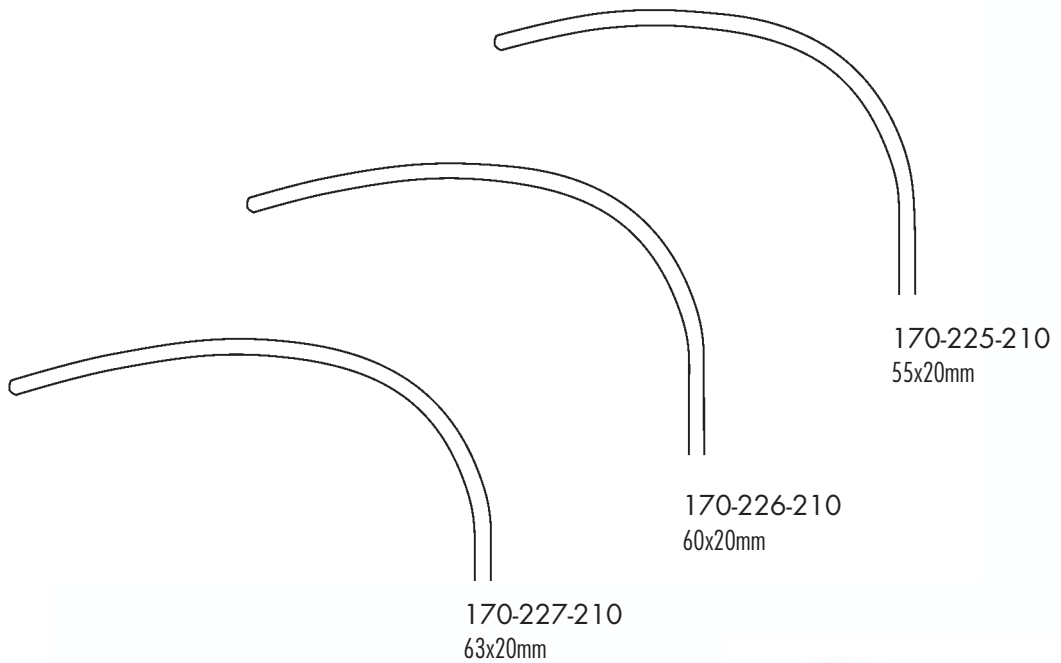


Desmarres
260-118-150
260-118-151 insulated
Lid Retractor, Double-ended
8mm / 10mm
150mm, 5^{1/2}"





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



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

170-317-022	22x6mm
170-317-025	25x8mm
170-317-026	25x6mm
170-317-035	35x8mm
170-317-036	35x11mm
170-317-037	35x15mm
170-317-040	40x11mm
170-317-055	55x11mm
170-317-070	70x15mm
170-317-080	80x12mm
170-317-081	80x15mm



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

170-471-108	80x20mm
170-471-110	100x20mm
170-471-112	120x25mm
170-471-114	140x25mm
170-471-116	160x30mm
170-471-118	180x30mm



Langenbeck
Retractor, solid handle ❶
220mm, 8⁵/₈"



Langenbeck
Retractor, ring handle ❷
220mm, 8⁵/₈"



30x11mm
170-222-220 ❶
170-293-001 ❷



30x14mm
170-222-221 ❶
170-293-002 ❷



30x16mm
170-222-222 ❶
170-293-003 ❷



40x11mm
170-222-223 ❶
170-293-004 ❷



50x11mm
170-222-224 ❶
170-293-005 ❷



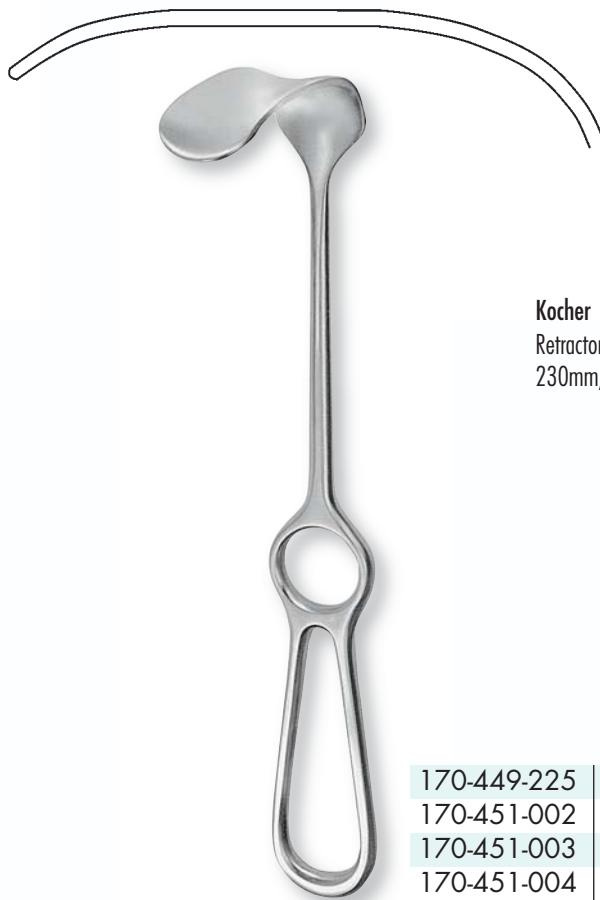
Sauerbruch
Retractor
225mm, 8^{3/4}"

170-561-001	46x16mm
170-561-002	55x22mm
170-561-003	72x19mm



Kocher
Retractor
230mm, 9"

170-315-018	40x18mm
170-315-020	60x20mm
170-315-025	60x25mm
170-315-030	75x30mm
170-315-040	75x40mm



Kocher
Retractor

170-449-225	70x25mm	220mm, 9"
170-451-002	80x42mm	250mm, 10"
170-451-003	80x50mm	250mm, 10"
170-451-004	80x60mm	250mm, 10"



Doyen-Stille
Hand Held Retractor
220mm, 8^{5/8}"

170-440-001	120x52mm
170-440-002	105x30mm
170-440-003	90x28mm



Simon
170-457-001 115x22mm
170-457-002 115x27mm
Abdominal Retractor
280mm, 11"



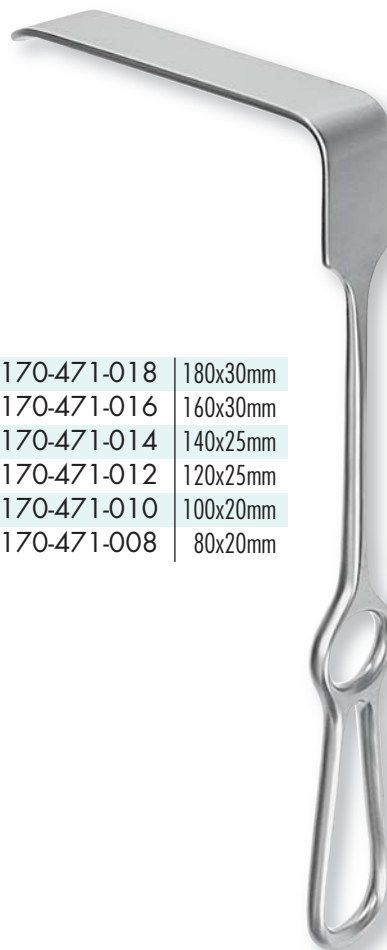
Meyerding
Retractor, fine serrated
225mm, 8^{3/4}"

170-490-500	90x50mm
170-475-160	75x25mm
170-450-160	50x16mm



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

170-461-003	115x65 mm
170-461-002	108x43 mm
170-461-001	82x22 mm



Brunner
Retractor
250mm, 10"

170-471-018	180x30mm
170-471-016	160x30mm
170-471-014	140x25mm
170-471-012	120x25mm
170-471-010	100x20mm
170-471-008	80x20mm



Morris
170-465-380 70x38mm
170-465-510 70x50mm
Retractor
245mm, 9^{5/8}"



Mikulicz
170-607-260
Retractor, 90x50mm
260mm, 10^{1/4}"

170-489-001	85x35mm
170-489-002	120x50mm
170-489-003	150x50mm



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



170-319-250	36x8mm	250mm, 10"
170-319-260	60x12mm	260mm, 10 ¹ / ₄ "
170-319-270	75x12mm	275mm, 10 ³ / ₄ "

170-531-260	160x38mm
170-530-260	160x57mm
170-533-260	190x38mm
170-532-260	190x57mm

Zenker
Retractor

Kelly
Retractor
270mm, 10¹/₂"



Gil-Vernet
Retractor
245mm, 9^{5/8}"

	Blade width
170-235-080	8mm
170-235-110	11mm
170-235-130	13mm
170-235-150	15mm
170-235-170	17mm
170-235-200	20mm



Gil-Vernet
Retractor, malleable
280mm, 11"

	Blade width
170-237-080	8mm
170-237-110	11mm
170-237-130	13mm
170-237-150	15mm
170-237-170	17mm
170-237-200	20mm



Cushing
170-235-210
Vein Retractor
12mm x 10mm blade
230mm, 9"

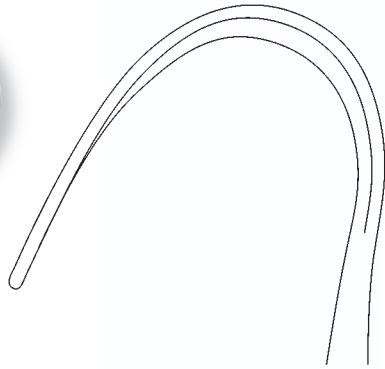
	Blade width
170-383-001	28x20mm
170-383-002	36x28mm
170-383-003	44x38mm
170-383-004	52x22mm
170-383-005	65x50mm
170-383-006	70x65mm



Richardson (Kelly)
Retractor
240mm, 9^{1/2}"



170-447-040	45x40mm
170-447-050	45x50mm
170-447-060	45x60mm
170-447-075	45x75mm
170-447-085	65x85mm



230-140-175	12x14mm
230-160-175	13x16mm
230-190-175	14x19mm
Square Handle Blade Retractor	
175mm, 6 ⁵ / ₈ "	



Green
170-319-220
Retractor
20mm width x 23mm depth
fenestrated blade
220mm, 8 ¹ / ₂ "

Fritsch
Retractor
240mm, 9¹/₂"



**Middeldorpf
Retractor**

170-363-001	14x17mm	215mm, 8 ¹ / ₂ "
170-363-002	20x22mm	220mm, 8 ⁵ / ₈ "
170-363-003	26x30mm	235mm, 9 ¹ / ₄ "



**Middeldorpf
Retractor**

170-325-001	14x17mm	215mm, 8 ¹ / ₂ "
170-325-002	20x22mm	220mm, 8 ⁵ / ₈ "
170-325-003	26x30mm	235mm, 9 ¹ / ₄ "



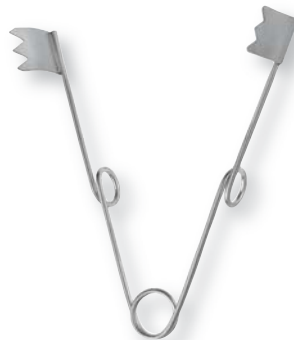
**Middeldorpf
Retractor**
255mm, 10"

170-443-001	40x45mm
170-443-002	45x50mm
170-443-003	55x70mm



170-915-018

Vickers
Finger Retractor, 2x2 blunt Hooks



170-712-080

Farr
Spring Retractor, 85 mm,
self retaining



Alm
Retractor, 4x4 teeth,
self retaining

sharp

170-714-070	70mm, 2 ³ / ₄ "
170-714-100	100mm, 4"

semi-sharp

170-716-070	70mm, 2 ³ / ₄ "
170-716-100	100mm, 4"

blunt

170-715-070	70mm, 2 ³ / ₄ "
170-715-100	100mm, 4"



170-915-002

Vickers
Low profile Retractor complete with
center blade 10x18mm
for hand and carpal tunnelling



170-916-002

Vickers
Low profile Retractor complete with
center blade 10x18mm
for hand and forearm



170-917-002

Vickers
Low profile Retractor complete with
center blade 10x18mm
finger and small Wound Retractor



170-717-100
Holzheimer
Retractor, 4x4 teeth, blunt, 4mm,
100mm, 4"



170-720-100 sharp
170-721-100 sharp/blunt
170-723-100 blunt
Jansen
Retractor, 3x3 teeth
100mm, 4"



170-749-105 sharp
170-748-105 blunt
Weilner-Loktite
Retractor, 2x3 teeth
105mm, 4 1/2"



170-752-130 sharp
170-753-130 blunt
Weilner-Wullstein
Retractor, 3x3 teeth
130mm, 5"



Weilner
Retractor, 3x4 teeth

170-750-130	sharp	130mm, 5"
170-751-130	blunt	130mm, 5"
170-750-165	sharp	165mm, 6 1/2"
170-751-165	blunt	165mm, 6 1/2"

170-734-200	sharp	200mm, 8"
170-735-200	blunt	200mm, 8"
170-734-240	sharp	240mm, 9 1/2"
170-735-240	blunt	240mm, 9 1/2"



Adson
Baby Retractor with hinged blades,
3x4 teeth

sharp		
170-795-130	15x20mm	130mm, 5"
170-795-160	15x20mm	160mm, 6 1/4"

blunt		
170-794-130	15x20mm	130mm, 5"
170-794-160	15x20mm	160mm, 6 1/4"



170-768-130
Milligan
Retractor, 3x3 teeth
130mm, 5"



170-767-130
Weitlanger-Baby
Retractor, 130mm, 5"



170-725-140 sharp
170-727-140 blunt
Scalp-Contour
Retractor, 3x4 teeth,
140mm, 5½"



170-754-155
Mollison
Retractor, sharp, 4x4 teeth,
155mm, 6"



Wullstein
Retractor, 3x4 teeth

170-742-105	sharp	105mm, 4⅛"
170-743-105	blunt	105mm, 4⅛"
170-742-130	sharp	130mm, 5"
170-743-130	blunt	130mm, 5"
170-742-150	sharp	150mm, 6"
170-743-150	blunt	150mm, 6"
170-742-180	sharp	180mm, 7"
170-743-180	blunt	180mm, 7"



170-758-125 sharp
170-759-125 blunt
Schuhknecht
Retractor, 125mm, 5"



170-728-160 sharp
170-729-160 blunt
Adson-Baby
Retractor, 3x4 teeth, sharp
160mm, 6^{1/4}"



170-732-200
Adson-Anderson
Retractor, angled, 4x4 teeth, sharp
200mm, 8"



170-776-220
Adson-Anderson
Retractor, 4x5 teeth, blunt
220mm, 8^{3/4}"



Adson
Retractor

170-730-265	3x4, sharp	265mm, 10 ^{1/2} "
170-731-265	3x4, blunt	265mm, 10 ^{1/2} "
170-732-265	5x6, sharp	270mm, 10 ^{3/4} "
170-731-265	5x6, blunt	270mm, 10 ^{3/4} "



Adson
Retractor, 3x4 teeth

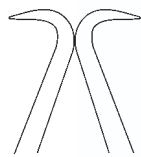
170-795-200	sharp	200mm, 8"
170-794-200	blunt	200mm, 8"
170-795-260	sharp	260mm, 10 ^{1/4} "
170-794-260	blunt	260mm, 10 ^{1/4} "



170-786-001 sharp
170-786-000 blunt
Beckmann-Adson
Retractor, 4x4 teeth
310mm, 12¹/₄"

170-784-320
Adson
Retractor, 4x5 teeth, blunt
320mm, 12¹/₂"

170-788-320 sharp
170-789-320 blunt
Beckmann-Eaton
Retractor, 7x7 teeth
320mm, 12¹/₂"



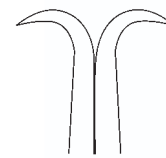
Gelpi
Retractor, sharp points

170-802-090
90mm, 3 1/2"

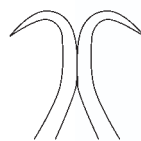
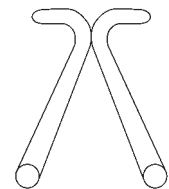
170-802-110
115mm, 4 1/2"

170-802-135
140mm, 5 1/2"

170-802-190
190mm, 7 1/2"



Gelpi
170-802-180
Perineal Retractor
180mm, 7"



170-745-100 100mm, 4"
170-745-170 170mm, 6 3/4"
DeBailey
Retractor



Jackson-Burrows
170-776-175 blunt
170-777-175 sharp
Retractor, 175mm, 7"



Gelpi-Loktite
170-803-180
Retractor, sharp points
175mm, 7"



Wiltse-Gelpi
170-805-250
Retractor, sharp points
280mm, 11"



[illegible]