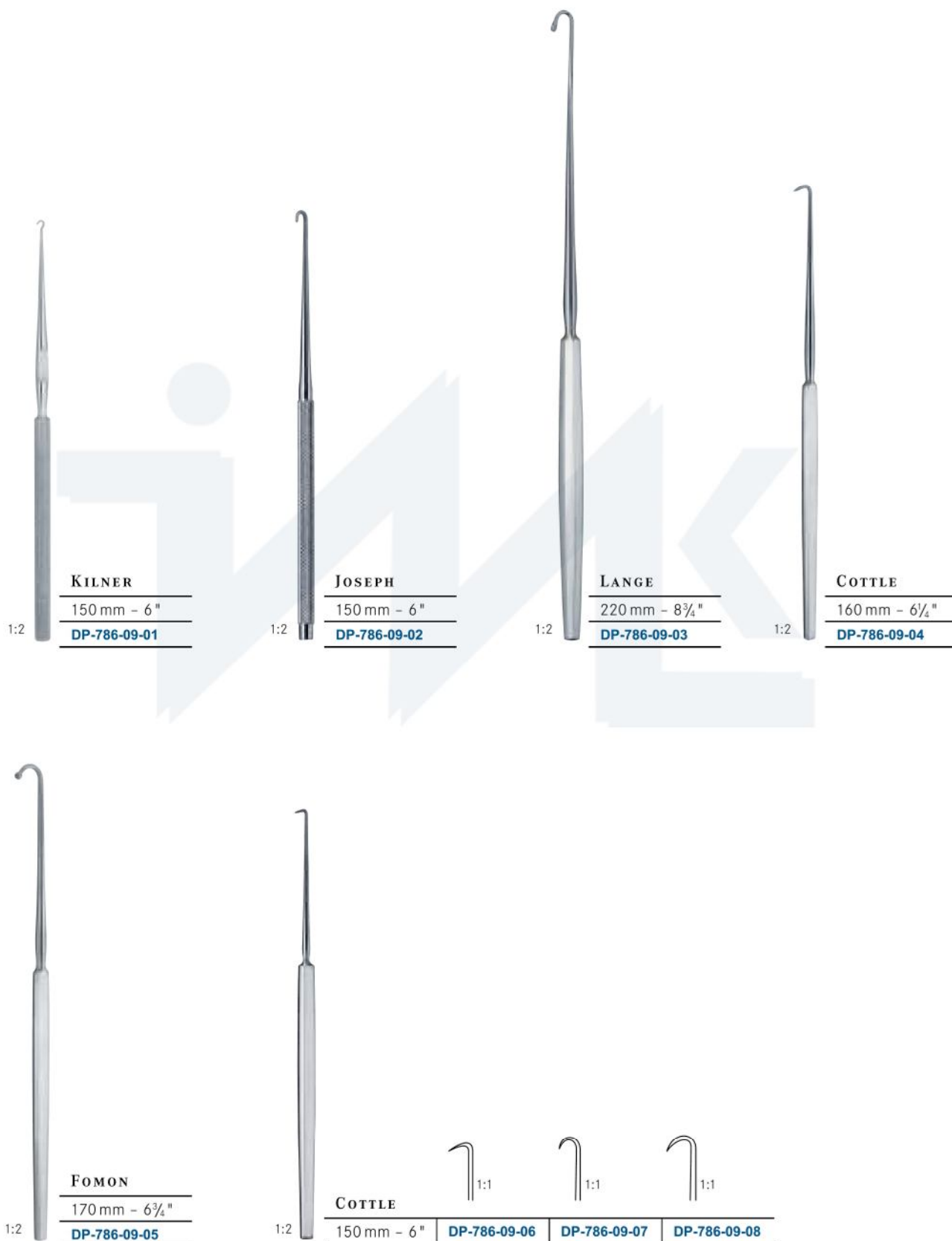


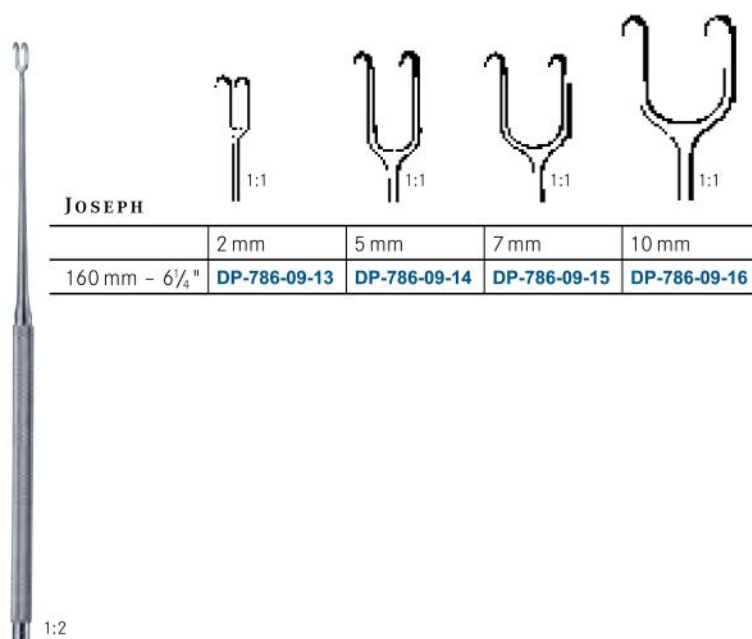
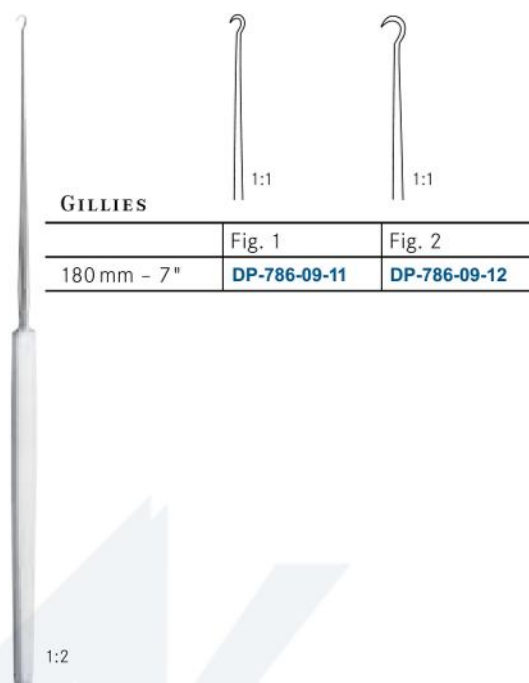
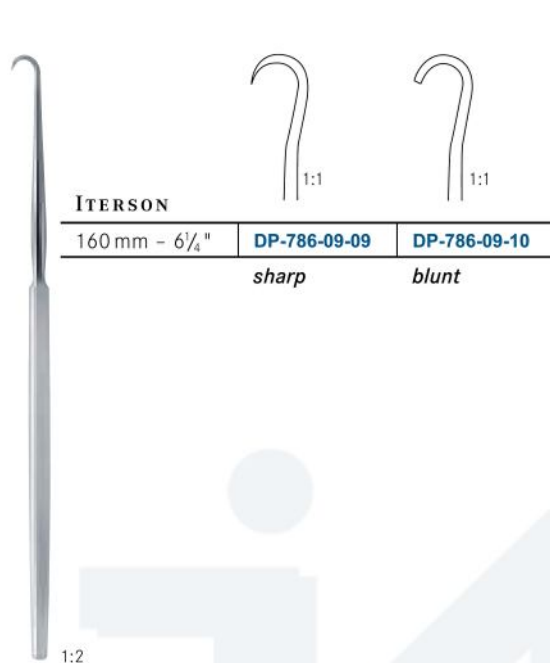


..... **RETRACTORS**



Nasal hooks



Nasal hooks


Nasal hooks



**COTTLE-
NEIVERT**

200 mm - 8"

DP-786-09-17

1:2



FOMON

160 mm - 6 1/4"

DP-786-09-18

1:2



COTTLE

150 mm - 6"

DP-786-09-19

DP-786-09-20

DP-786-09-21

1:2



1:1



1:1



1:1



NEIVERT

160 mm - 6 1/4"

DP-786-09-22

1:2

Trachea and nose retractors



COTTLE

150 mm - 6"

[DP-786-09-23](#)

[DP-786-09-24](#)



KILNER

100 mm - 4"

[DP-786-09-25](#)



CONVERSE

120 mm - 4 3/4"

[DP-786-09-26](#)



LUKENS

170 mm - 6 2/3"

[DP-786-09-27](#)

blunt



AUFRICHT

160 mm - 7 1/4"

[DP-786-09-28](#)

190 mm - 7 1/2"

[DP-786-09-29](#)



AUFRICHT

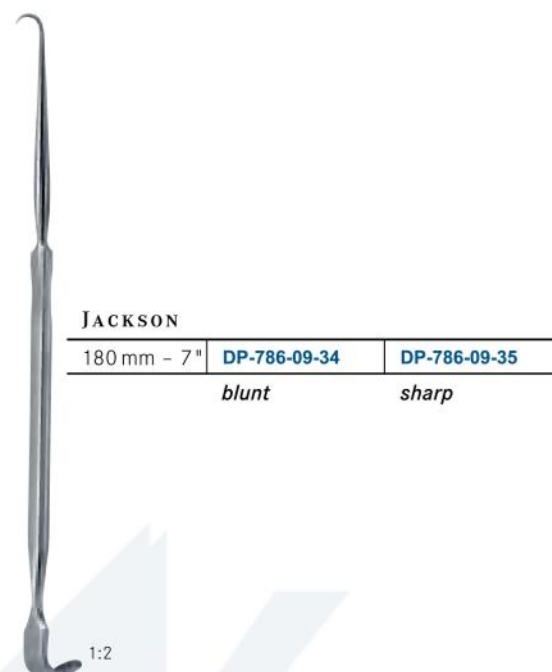
160 mm - 7 1/4"

[DP-786-09-30](#)

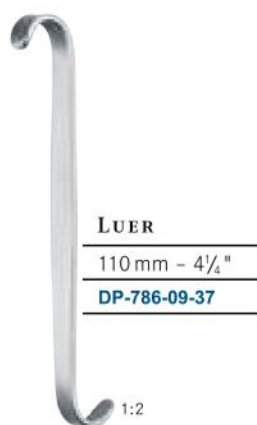
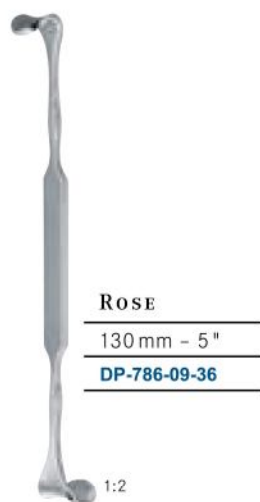
190 mm - 7 1/2"

[DP-786-09-31](#)

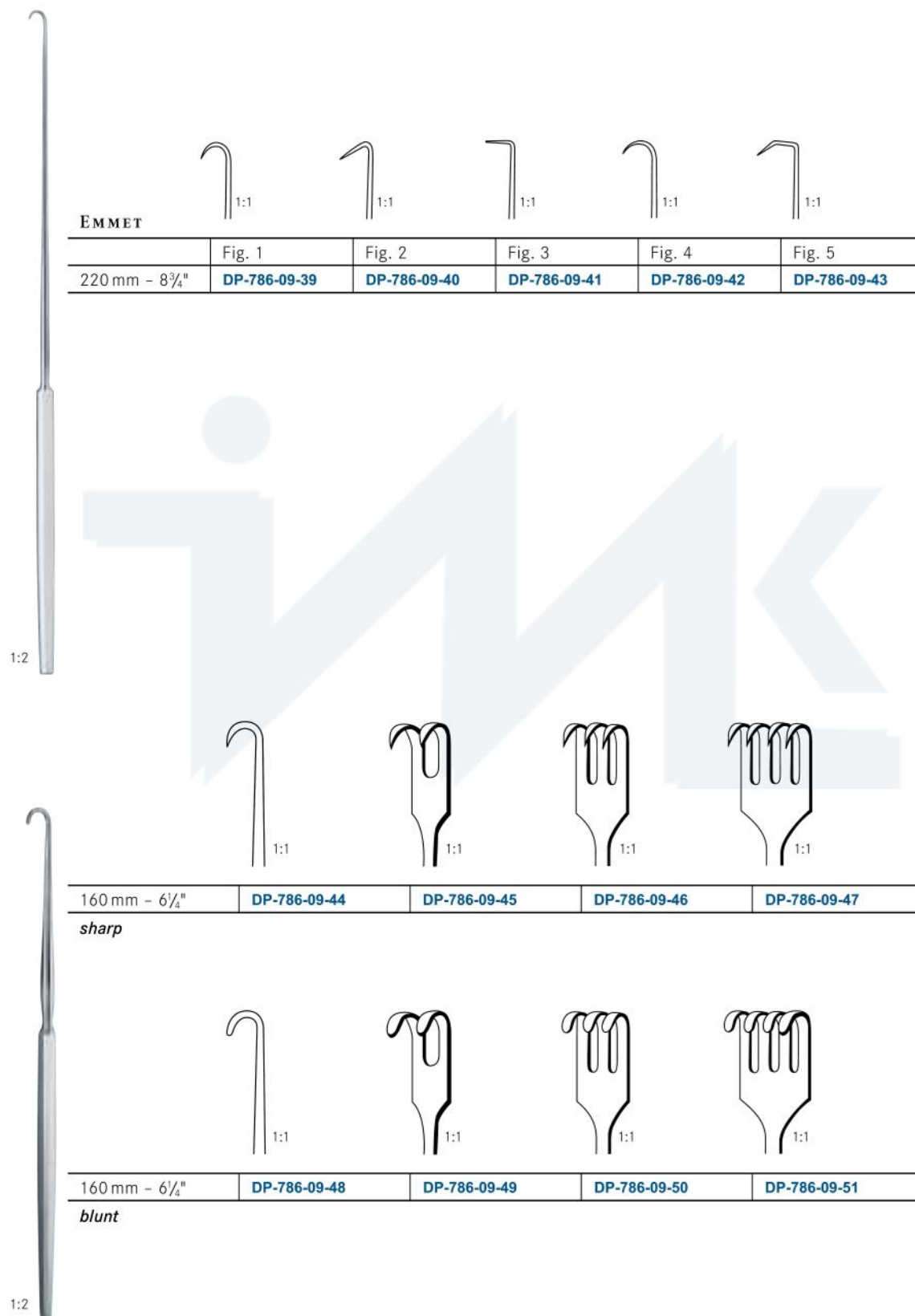
Trachea retractors



Retractors



Retractors



Retractors


1:2



1:1



1:1



1:1

160 mm - 6 1/4"	DP-786-09-52	DP-786-09-53	DP-786-09-54
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flexible, sharp


1:1



1:1



1:1

160 mm - 6 1/4"	DP-786-09-55	DP-786-09-56	DP-786-09-57
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flexible, blunt


1:1

BARSKY

155 mm - 6"

DP-786-09-58


1:1



1:1



1:1



1:1

DESMARRES

	x = 8 mm	x = 10 mm	x = 12 mm
160 mm - 6 1/4"	DP-786-09-59	DP-786-09-60	DP-786-09-61



1:1



1:1



1:1

	x = 14 mm	x = 16 mm	x = 18 mm
160 mm - 6 1/4"	DP-786-09-62	DP-786-09-63	DP-786-09-64



1:2



1:1

**KNAPP
(ROLLET)**

160 mm - 6 1/4"

DP-786-09-65
flexible, sharp

Retractors


1:2


MINI-LANGENBECK

	10 mm x 6 mm	17 mm x 5 mm	20 mm x 6 mm	22 mm x 8 mm
160 mm – 6 3/4"	DP-786-09-66	DP-786-09-67	DP-786-09-68	DP-786-09-69


KOCHER

220 mm – 8 3/4"	DP-786-09-70	DP-786-09-71	DP-786-09-72	DP-786-09-73	DP-786-09-74	DP-786-09-75
<i>sharp</i>						



220 mm – 8 3/4"

DP-786-09-76
DP-786-09-77
DP-786-09-78
DP-786-09-79
DP-786-09-80
DP-786-09-81
blunt


220 mm – 8 3/4"

DP-786-09-82
DP-786-09-83
DP-786-09-84
DP-786-09-85
DP-786-09-86
DP-786-09-87
semi-sharp

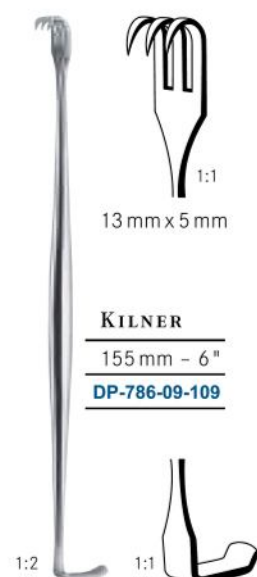
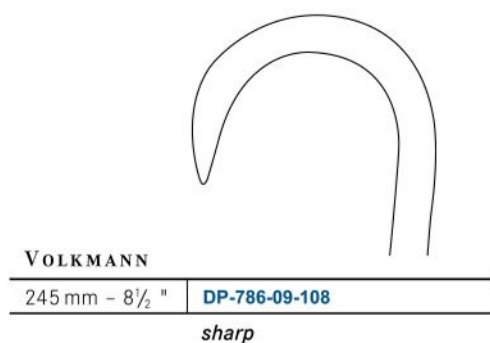
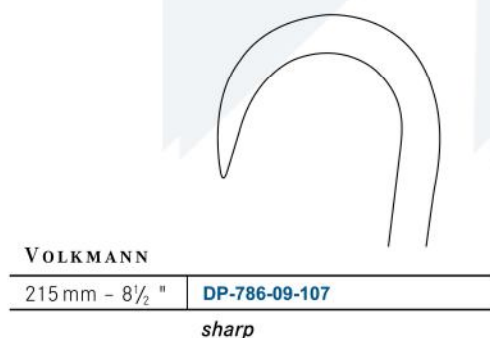
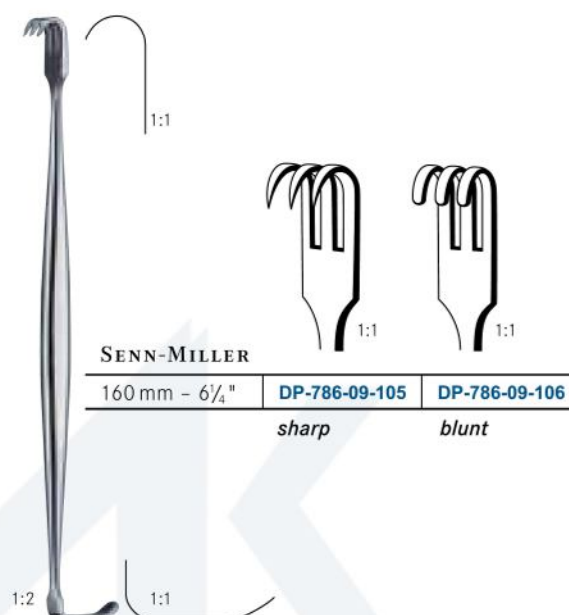
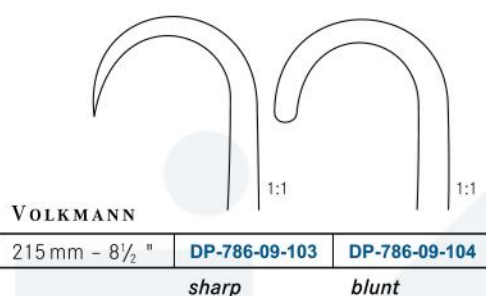
Retractors



Retractors



1:2



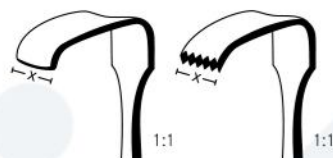
Retractors



STRANDELL-STILLE

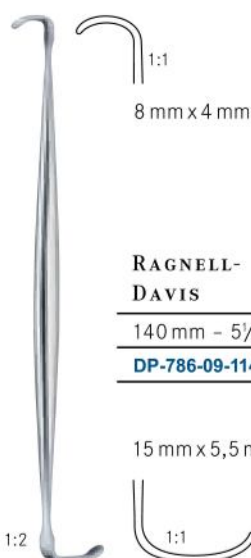
	20 mm x 6 mm	20 mm x 6 mm
190 mm - 7½"	DP-786-09-110	DP-786-09-111

saw edge



SENN-GREEN

	20 mm x 6 mm	10 mm x 6 mm
150 mm - 6"	DP-786-09-112	DP-786-09-113



RAGNELL-DAVIS

140 mm - 5½"	DP-786-09-114
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15 mm x 5,5 mm



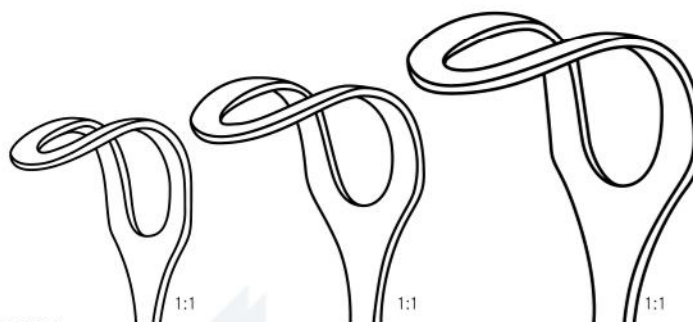
COTTLE

150 mm - 6"	DP-786-09-115
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CRILE

110 mm - 4¼"	DP-786-09-116
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Retractors

MIDDELDORPF

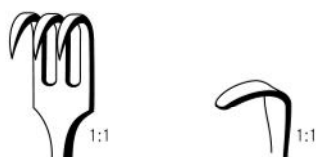
14 mm x 17 mm	20 mm x 22 mm	26 mm x 30 mm
215 mm - 8½"	220 mm - 8¾"	235 mm - 9¼"
DP-786-09-117	DP-786-09-118	DP-786-09-119


MEYERDING

18 mm x 7 mm	10 mm x 3 mm
180 mm - 7"	DP-786-09-120 DP-786-09-121



16 mm x 5 mm	7 mm x 4 mm
180 mm - 7"	DP-786-09-122 DP-786-09-123



10 mm x 4 mm	7 mm x 4 mm
180 mm - 7"	DP-786-09-124 DP-786-09-125

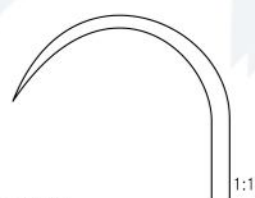
1:2

Retractors



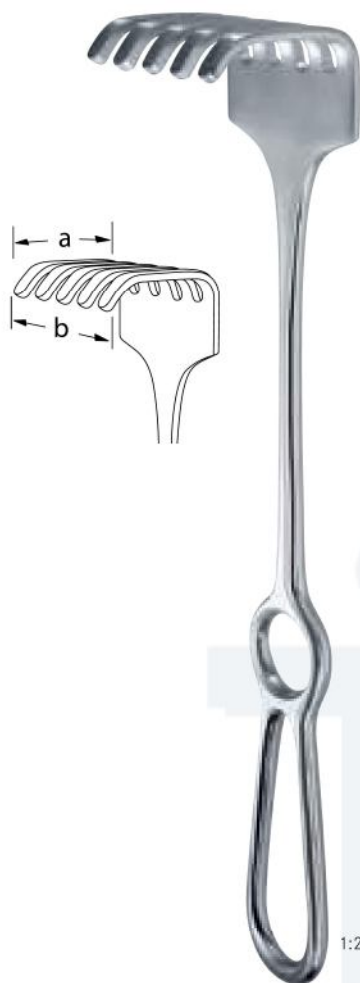
KOERTE

	26 mm x 40 mm	26 mm x 40 mm
235 mm - 9 1/4"	DP-786-09-126	DP-786-09-127
	<i>sharp</i>	<i>blunt</i>



GREEN

215 mm - 8 1/2"
DP-786-09-128

Retractors

ISRAEL

	a = 40 mm - b = 40 mm	a = 45 mm - b = 50 mm
250 mm - 9 3/4"	DP-786-09-129	DP-786-09-130
	4 Teeth	5 Teeth

	a = 50 mm - b = 60 mm	a = 70 mm - b = 70 mm
250 mm - 9 3/4"	DP-786-09-131	DP-786-09-132
	6 Teeth	6 Teeth


LANGENBECK

	Fig. 1	Fig. 2	Fig. 3
	30 mm x 11 mm	30 mm x 14 mm	30 mm x 16 mm
220 mm - 8 3/4"	DP-786-09-133	DP-786-09-134	DP-786-09-135

	Fig. 4	Fig. 5
	40 mm x 11 mm	50 mm x 11 mm
220 mm - 8 3/4"	DP-786-09-136	DP-786-09-137

Retractors

LANGENBECK


	Fig. 1	Fig. 2	Fig. 3
	30 mm x 11 mm	30 mm x 14 mm	30 mm x 16 mm
210 mm - 8 1/4"	DP-786-09-138	DP-786-09-139	DP-786-09-140



	Fig. 4	Fig. 5
	40 mm x 11 mm	50 mm x 11 mm
210 mm - 8 1/4"	DP-786-09-141	DP-786-09-142


**KOCHER-LANGENBECK
(OBWEGESER)**


	25 mm x 7 mm	35 mm x 8 mm	35 mm x 11 mm	35 mm x 15 mm
215 mm - 8 1/2"	DP-786-09-143	DP-786-09-144	DP-786-09-145	DP-786-09-146



	42 mm x 10 mm	55 mm x 12 mm	70 mm x 14 mm
215 mm - 8 1/2"	DP-786-09-147	DP-786-09-148	DP-786-09-149



	80 mm x 12 mm	80 mm x 16 mm
215 mm - 8 1/2"	DP-786-09-150	DP-786-09-151

Retractors

CUSHING

	x = 8 mm	x = 10 mm	x = 12 mm	x = 14 mm	x = 16 mm	x = 18 mm
200 mm - 8"	DP-786-09-152	DP-786-09-153	DP-786-09-154	DP-786-09-155	DP-786-09-156	DP-786-09-157
240 mm - 9½"	DP-786-09-158	DP-786-09-159	DP-786-09-160	DP-786-09-161	DP-786-09-162	DP-786-09-163


OBWEGESER

	42 mm x 13 mm	60 mm x 12 mm
220 mm - 8¾"	DP-786-09-164	DP-786-09-165

	80 mm x 16 mm
220 mm - 8¾"	DP-786-09-166

Retractors



OBWEGESER

220 mm - 8 3/4"

44 mm x 9,5 mm

DP-786-09-167

70 mm x 11,5 mm

DP-786-09-168



OBWEGESER

155 mm - 6"

DP-786-09-169



OBWEGESER

160 mm - 6 1/4"

malleable

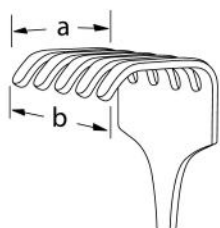
x = 8 mm

DP-786-09-170

x = 10 mm

DP-786-09-171

Retractors



DP-786-09-172

DP-786-09-173



DP-786-09-174

DP-786-09-175

Retractors



LANGENBECK

	60 mm x 20 mm
210 mm - 8 1/4"	DP-786-09-176

1:2



LANGENBECK

	85 mm x 15 mm
210 mm - 8 1/4"	DP-786-09-177

Handle vertical to the blade

1:2

Retractors

 	
SAUERBRUCH	
	45 mm x 15 mm
225 mm - 8 $\frac{3}{4}$ "	DP-786-09-178
	75 mm x 20 mm
	DP-786-09-179

	
	60 mm x 23 mm
220 mm - 8 $\frac{3}{4}$ "	DP-786-09-180



LAHEY	
190 mm - 7 $\frac{1}{2}$ "	
28 mm x 6 mm	
DP-786-09-181	

 		
KOCHER		
	19 mm x 12 mm	21 mm x 14 mm
190 mm - 7 $\frac{1}{2}$ "	DP-786-09-182	DP-786-09-183



  			
KOCHER			
	40 mm x 10 mm	40 mm x 15 mm	40 mm x 20 mm
220 cm - 8 $\frac{3}{4}$ "	DP-786-09-184	DP-786-09-185	DP-786-09-186

Retractors

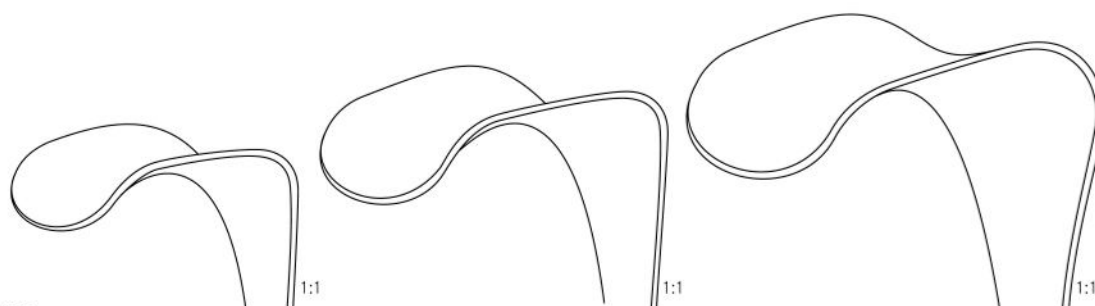


KOCHER

	40 mm x 18 mm	60 mm x 20 mm
230 mm - 9"	DP-786-09-187	DP-786-09-188

	60 mm x 25 mm	75 mm x 30 mm
230 mm - 9"	DP-786-09-189	DP-786-09-190

	75 mm x 40 mm
230 mm - 9"	DP-786-09-191



RICHARDSON

	28 mm x 20 mm	36 mm x 28 mm	44 mm x 38 mm
240 mm - 9½"	DP-786-09-192	DP-786-09-193	DP-786-09-194



Retractors



RICHARDSON-EASTMAN

	Fig. 1	Fig. 2
	280 mm - 11"	260 mm - 10 1/4"
	49 mm x 38 mm	36 mm x 28 mm
	63 mm x 49 mm	28 mm x 20 mm
DP-786-09-195	x	
DP-786-09-196		x
DP-786-09-197	x	x



RICHARDSON

240 mm - 9 1/2"
52 mm x 22 mm
DP-786-09-198



KELLY

260 mm - 10 1/4"
65 mm x 50 mm
DP-786-09-199

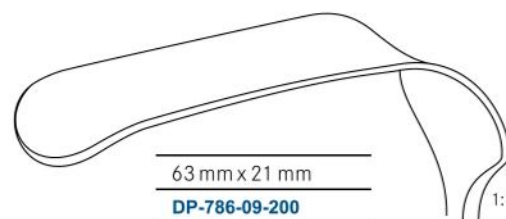
Retractors



HOESEL

260 mm - 10 $\frac{1}{4}$ "

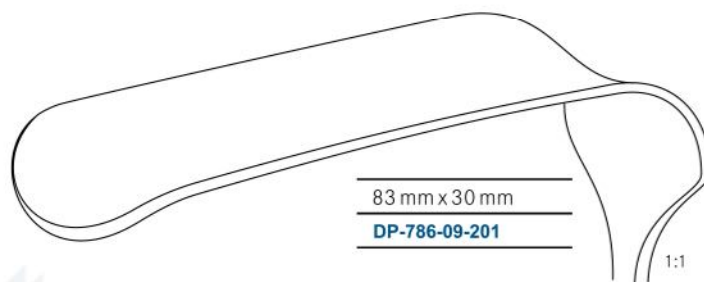
1:2



63 mm x 21 mm

DP-786-09-200

1:1



83 mm x 30 mm

DP-786-09-201

1:1



103 mm x 30 mm

DP-786-09-202

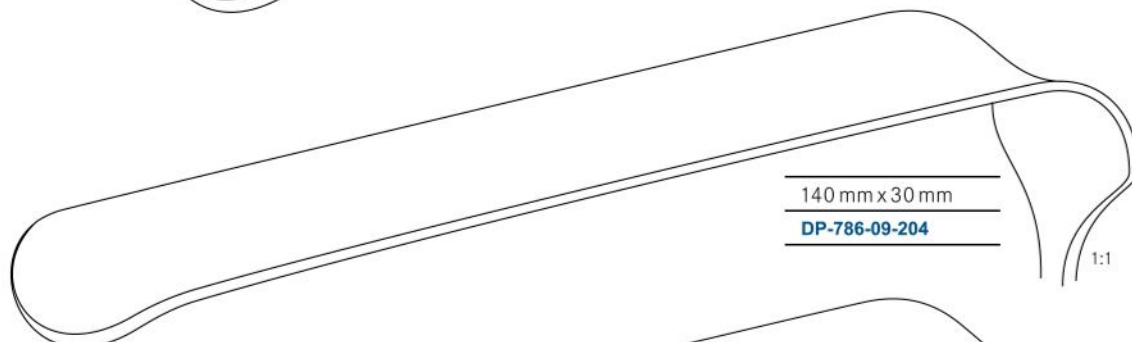
1:1



120 mm x 30 mm

DP-786-09-203

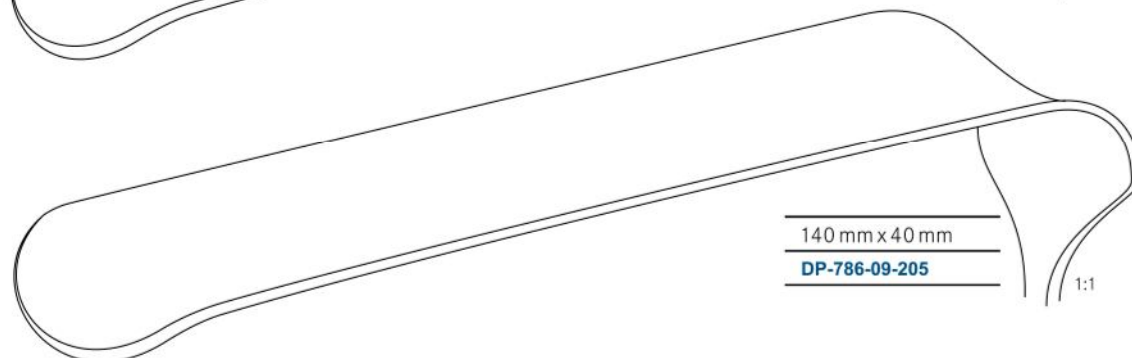
1:1



140 mm x 30 mm

DP-786-09-204

1:1



140 mm x 40 mm

DP-786-09-205

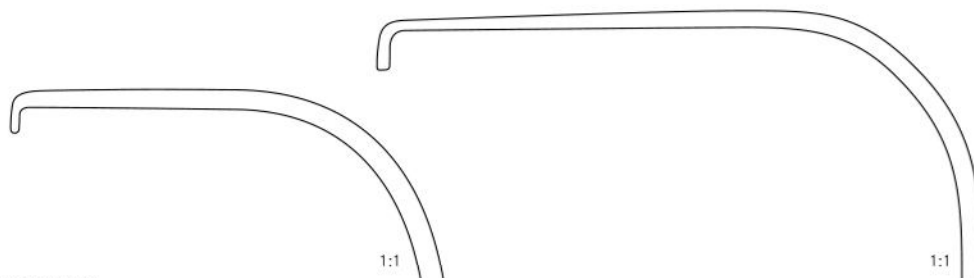
1:1

Retractors

MEYERDING

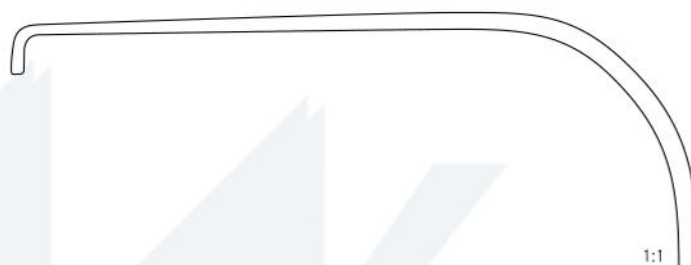
200 mm - 8"

50 mm x 16 mm

DP-786-09-206


220 mm - 8 3/4"

75 mm x 25 mm

DP-786-09-207


240 mm - 9 1/2"

90 mm x 50 mm

DP-786-09-208

FRITSCH

235 mm - 9 1/4"

240 mm - 9 1/2"

250 mm - 9 3/4"

250 mm - 9 3/4"

255 mm - 10"

265 mm - 10 1/2"

a = 37 mm - b = 31 mm

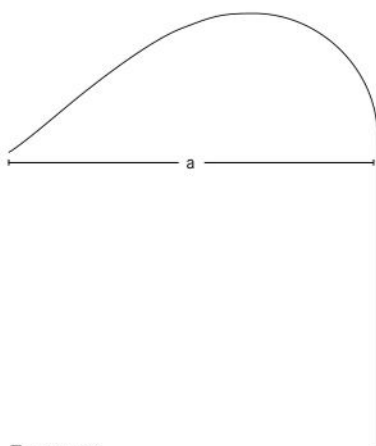
a = 38 mm - b = 40 mm

a = 43 mm - b = 51 mm

a = 49 mm - b = 61 mm

a = 48 mm - b = 75 mm

a = 65 mm - b = 85 mm

DP-786-09-209
DP-786-09-210
DP-786-09-211
DP-786-09-212
DP-786-09-213
DP-786-09-214


Retractors



SIMON

	115 mm x 22 mm	115 mm x 27 mm
280 cm - 11 "	DP-786-09-215	DP-786-09-216

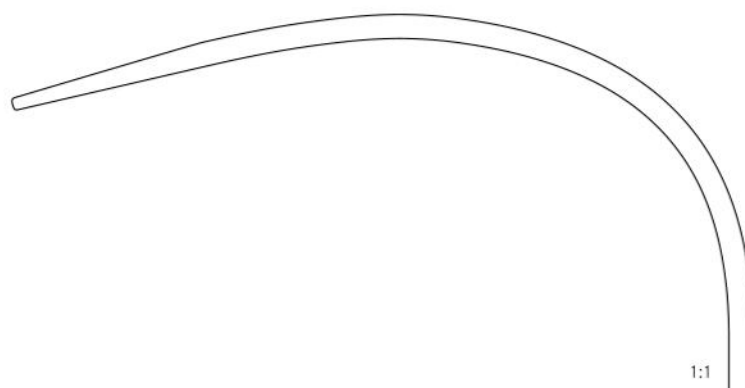
HARRINGTON

	127 mm x 40 mm	127 mm x 62 mm
320 mm - 12 1/2 "	DP-786-09-217	DP-786-09-218

Retractors



1:2



1:1

MIKULICZ

95 mm x 35 mm

260 mm - 10 1/4"

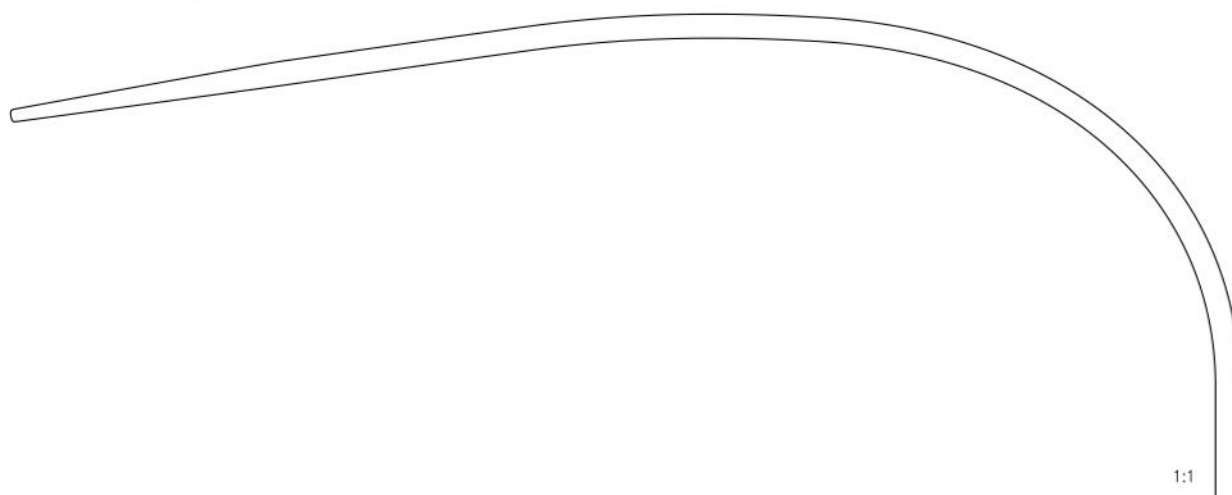
DP-786-09-219



1:1

120 mm x 50 mm

DP-786-09-220



1:1

150 mm x 50 mm

DP-786-09-221

Retractors



MIKULICZ

260 mm - 10 1/4"

90 mm x 50 mm

DP-786-09-222

1:2



DAVIDSON

a = 75 mm - b = 50 mm

a = 75 mm - b = 90 mm

160 mm - 6 1/4"

DP-786-09-223

DP-786-09-224

Retractors



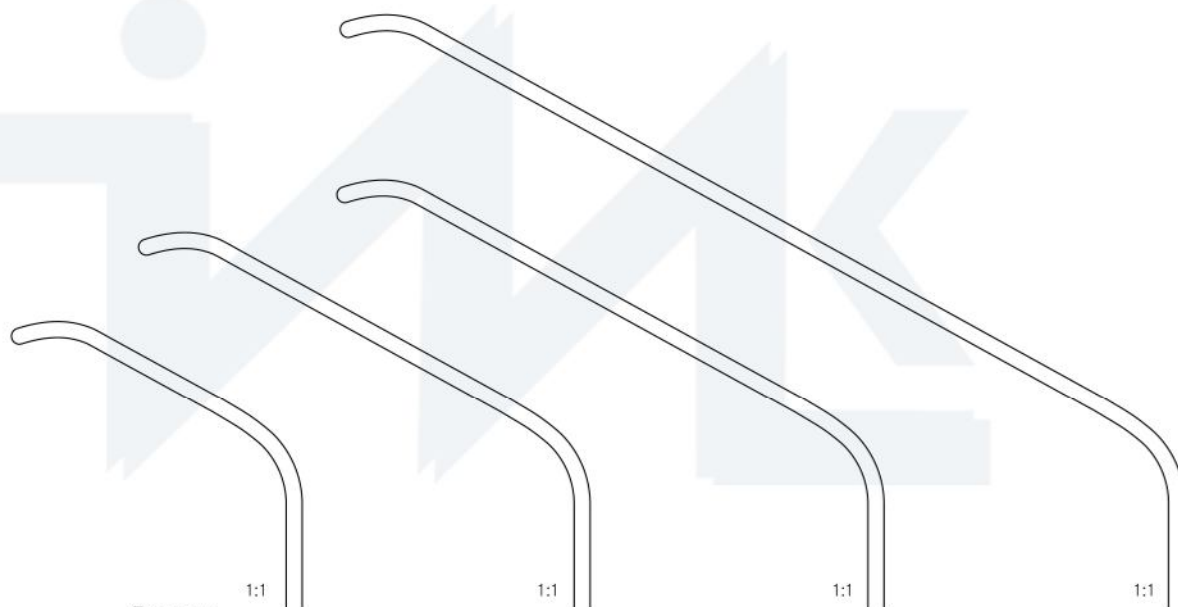
KADER

	270 mm
x = 20 mm	DP-786-09-225
x = 30 mm	DP-786-09-226
x = 40 mm	DP-786-09-227

KELLY

	190 mm x 38 mm	190 mm x 57 mm
270 mm - 10 3/4"	DP-786-09-228	DP-786-09-229

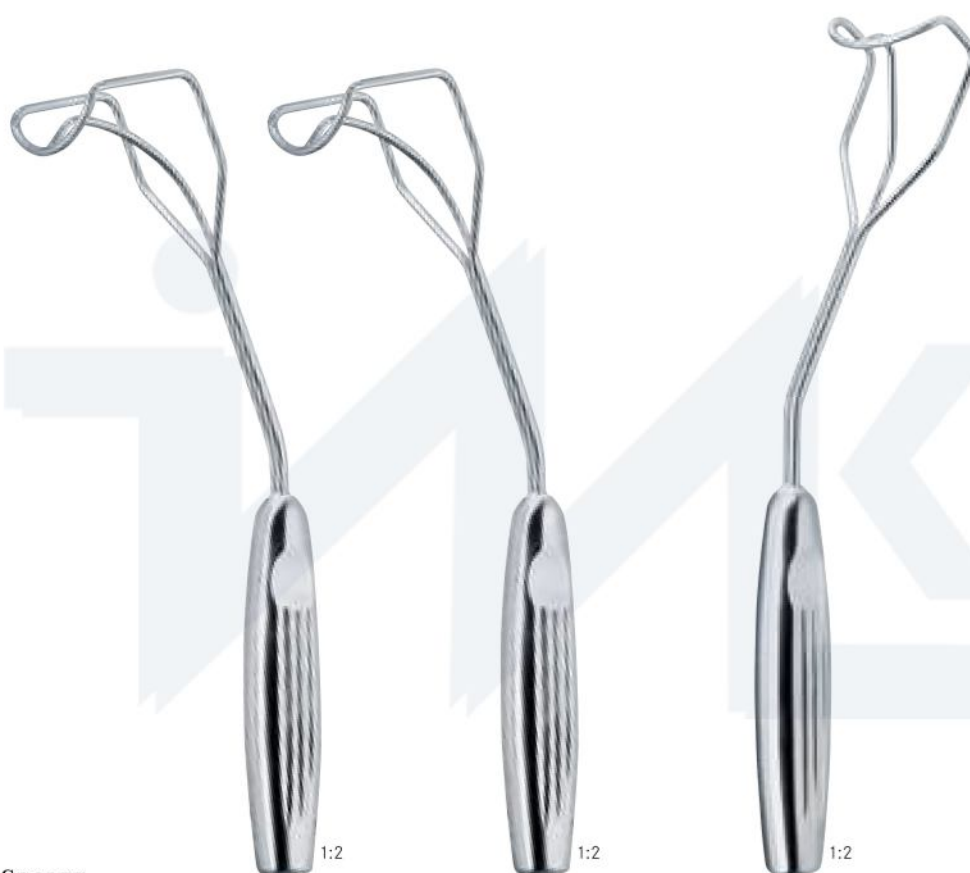
Retractors



ZENKER

250 mm - 9¾"	260 mm - 10¼"	275 mm - 10¾"	290 mm - 11½"
35 mm x 8 mm	60 mm x 12 mm	75 mm x 12 mm	120 mm x 12 mm
DP-786-09-230	DP-786-09-231	DP-786-09-232	DP-786-09-233

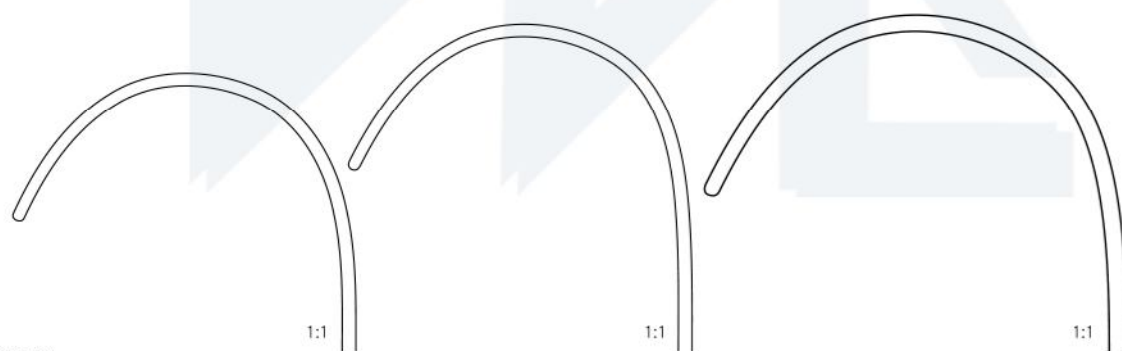
Retractors



COOLEY

250 mm - 9 $\frac{3}{4}$ "	250 mm - 9 $\frac{3}{4}$ "	270 mm - 10 $\frac{1}{2}$ "
DP-786-09-234	DP-786-09-235	DP-786-09-236
<i>right</i>	<i>right, serrated</i>	<i>left</i>

Retractors



MIDDELDORPF

	45 mm x 45 mm	45 mm x 50 mm	55 mm x 70 mm
255 mm - 10"	DP-786-09-237	DP-786-09-238	DP-786-09-239



Retractors



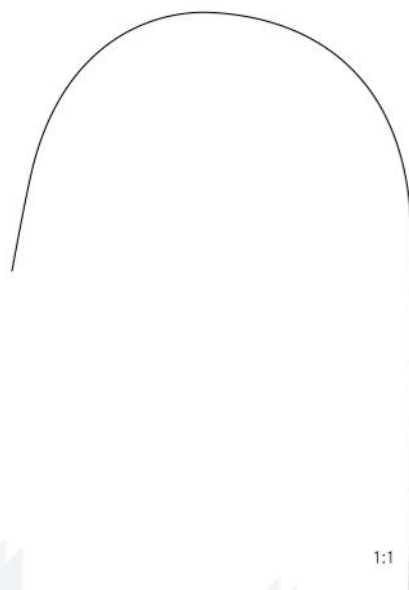
DOYEN

250 mm - 9 $\frac{3}{4}$ "

50 mm x 85 mm

DP-786-09-240

1:2



1:1



1:1

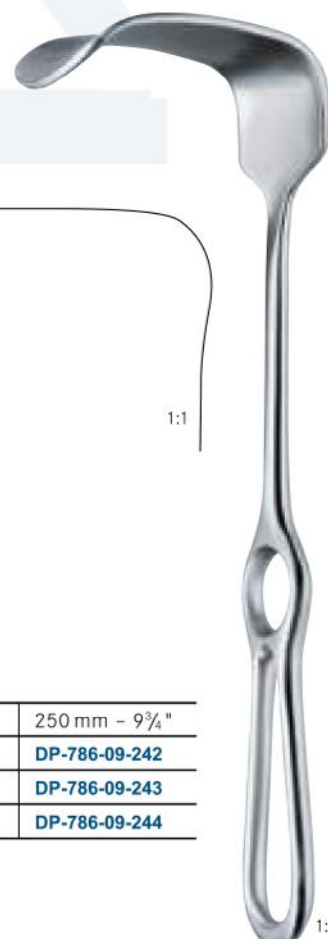
KOCHER

225 mm - 8 $\frac{3}{4}$ "

70 mm x 25 mm

DP-786-09-241

1:2



1:1

KOCHER

250 mm - 9 $\frac{3}{4}$ "

80 mm x 45 mm

DP-786-09-242

80 mm x 55 mm

DP-786-09-243

80 mm x 65 mm

DP-786-09-244

1:2

Retractors


Retractors

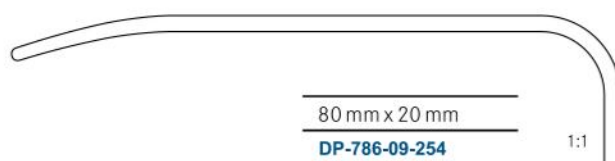


Retractors



BRUNNER
250 mm - 9 $\frac{3}{4}$ "

1:2



80 mm x 20 mm
DP-786-09-254

1:1



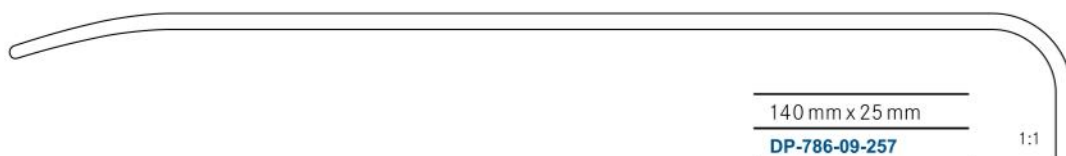
100 mm x 20 mm
DP-786-09-255

1:1



120 mm x 25 mm
DP-786-09-256

1:1



140 mm x 25 mm
DP-786-09-257

1:1



160 mm x 30 mm
DP-786-09-258

1:1

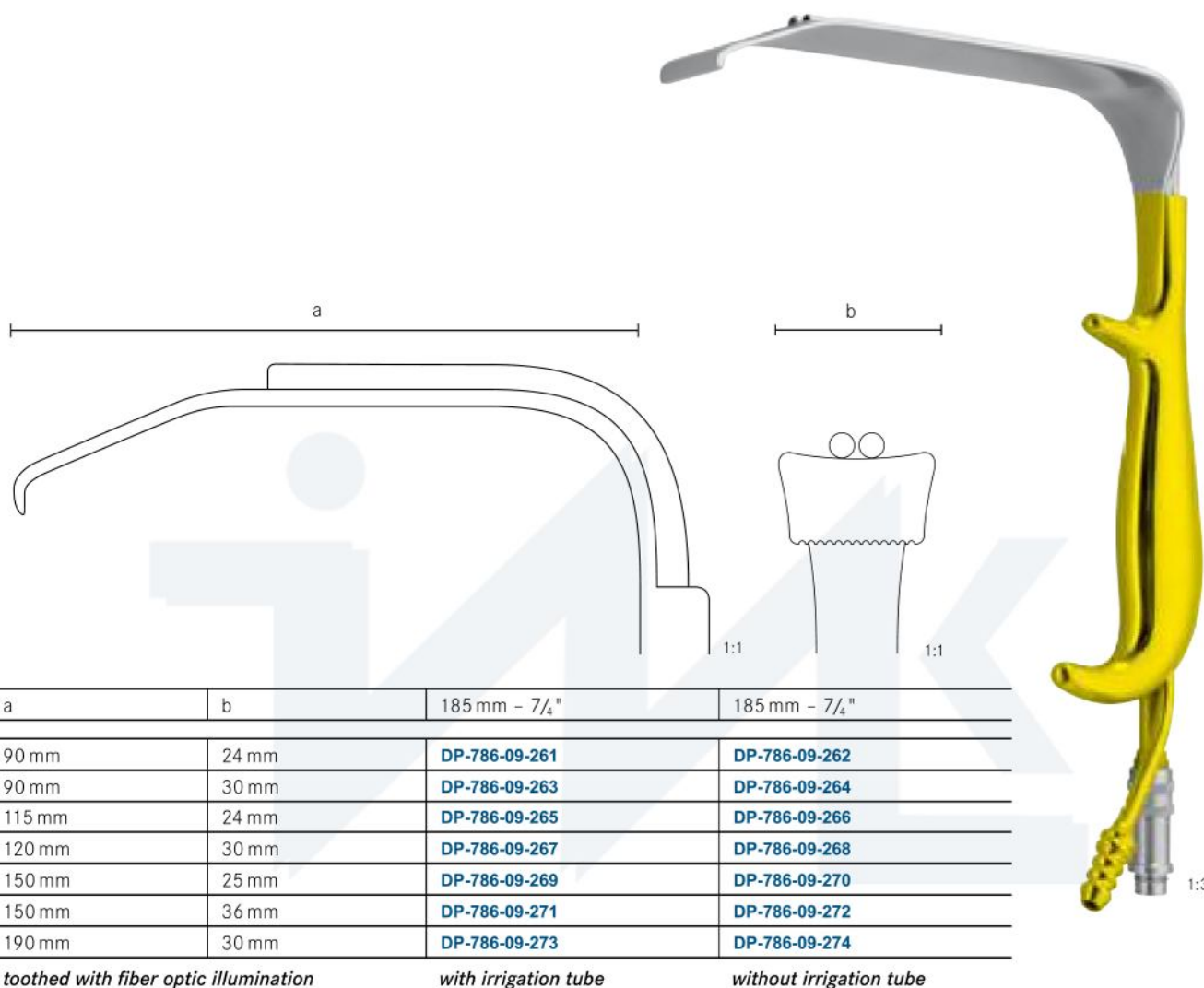


180 mm x 30 mm
DP-786-09-259

1:1

Retractors

Please ask for our special catalogue for plastic surgery.

Mamaplasty retractors


a	b	185 mm - 7/4"	185 mm - 7/4"
90 mm	24 mm	DP-786-09-275	DP-786-09-276
115 mm	24 mm	DP-786-09-277	DP-786-09-278
150 mm	25 mm	DP-786-09-279	DP-786-09-280
150 mm	36 mm	DP-786-09-281	DP-786-09-282
190 mm	30 mm	DP-786-09-283	DP-786-09-284

non-toothed with fiber optic illumination

with irrigation tube

without irrigation tube

Mamaplasty retractors



1:2

FERREIRA

a	b	185 mm - 7/4"	
90 mm	24 mm	DP-786-09-285	DP-786-09-286
115 mm	24 mm	DP-786-09-287	DP-786-09-288
150 mm	25 mm	DP-786-09-289	DP-786-09-290
150 mm	36 mm	DP-786-09-291	DP-786-09-292
190 mm	30 mm	DP-786-09-293	DP-786-09-294

Retractors

non-toothed

toothed

**MACCOLLUM -
DINGMAN**

315 mm - 12½"

DP-786-09-295

Mamaplasty retractors


330 mm - 13 "	DP-786-09-296	DP-786-09-297	DP-786-09-298
420 mm - 16½ "	DP-786-09-299	DP-786-09-300	DP-786-09-301
<i>angled</i>	<i>rigid</i>	<i>malleable</i>	<i>Shaft insulated</i>



330 mm - 13 "	DP-786-09-302	DP-786-09-303	DP-786-09-304
420 mm - 16½ "	DP-786-09-305	DP-786-09-306	DP-786-09-307
	<i>rigid</i>	<i>malleable</i>	<i>Shaft insulated</i>



	x = 25 mm	x = 33 mm
315 mm - 12½ "	DP-786-09-308	DP-786-09-309
<i>semi rigid</i>		

Retractors



GIL-VERNET



	x = 8 mm	x = 11 mm	x = 15 mm	x = 17 mm	x = 20 mm	x = 23 mm
240 mm - 9½"	DP-786-09-310	DP-786-09-311	DP-786-09-312	DP-786-09-313	DP-786-09-314	DP-786-09-315

malleable



ST. MARKS

290 mm - 11½"	325 mm - 12¾"	330 mm - 13"
130 mm x 60 mm	180 mm x 60 mm	180 mm x 60 mm
DP-786-09-316	DP-786-09-317	DP-786-09-318

Retractors

CUSHING

200 mm - 8 "

DP-786-09-319



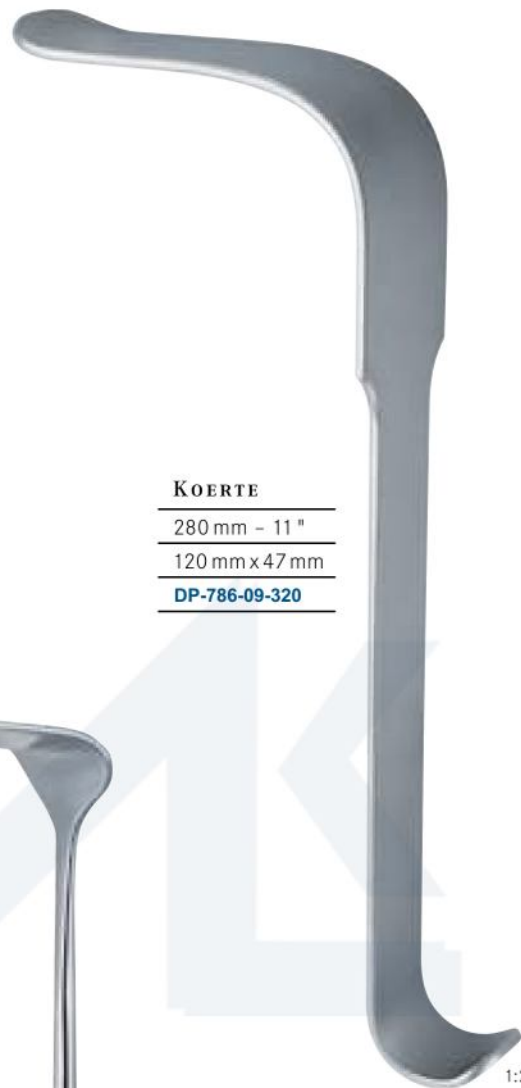
1:2

KOERTE

280 mm - 11 "

120 mm x 47 mm

DP-786-09-320



1:2



1:2

MORRIS

210 mm - 8 1/4 "

50 mm x 55 mm

DP-786-09-321



1:2

MORRIS

	70 mm x 40 mm	70 mm x 50 mm	70 mm x 65 mm
245 mm - 9 3/4 "	DP-786-09-322	DP-786-09-323	DP-786-09-324

Retractors



DEAVER

1:2

1:2

1:2

	x = 25 mm	x = 38 mm	x = 50 mm
315 mm - 12½"	DP-786-09-325	DP-786-09-326	DP-786-09-327

1:3

1:2

1:2

x = 75 mm	x = 100 mm
DP-786-09-328	DP-786-09-329

Retractors



DEAVER

180 mm - 7"	215 mm - 8½"	230 mm - 9"
x = 19 mm	x = 22 mm	x = 25 mm
DP-786-09-330	DP-786-09-331	DP-786-09-332

Retractors



DEAVER

300 mm - 12 "	330 mm - 13 "	360 mm - 14 1/4 "
x = 25 mm	x = 25 mm	x = 25 mm
DP-786-09-333	DP-786-09-334	DP-786-09-335

Retractors



DEAVER

300 mm - 12"	300 mm - 12"	300 mm - 12"
x = 38 mm	x = 50 mm	x = 75 mm
DP-786-09-336	DP-786-09-337	DP-786-09-338

Retractors

ROUX

	Fig. 1	Fig. 2	Fig. 3
	140 mm - 5½"	150 mm - 6"	170 mm - 6¾"
	24 mm x 20 mm	29 mm x 26 mm	33 mm x 29 mm
	30 mm x 28 mm	36 mm x 36 mm	38 mm x 43 mm
	DP-786-09-340	DP-786-09-341	DP-786-09-342
DP-786-09-339	x	x	x

Set

PARKER

	Fig. 1	Fig. 2
	135 mm - 5¼"	135 mm - 5¼"
	18 mm x 15 mm	22 mm x 15 mm
DP-786-09-343	x	x

Set

Retractors

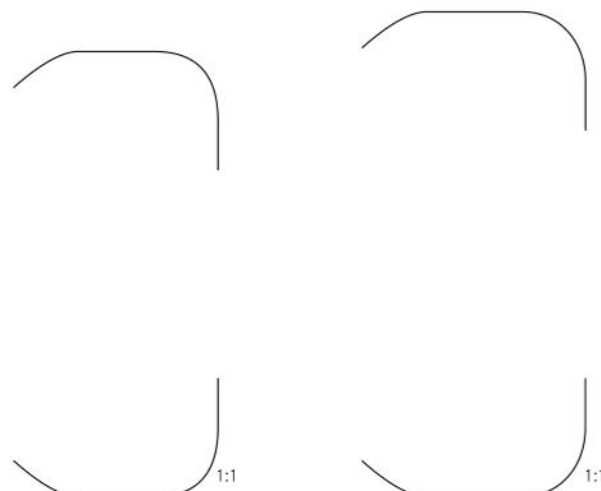


1:2

MAYO-COLLIN

150 mm - 6"	Fig. 1	Fig. 2
	25 mm x 18 mm	28 mm x 19 mm
	28 mm x 18 mm	32 mm x 19 mm
DP-786-09-347	x	x

Set



1:1

1:1

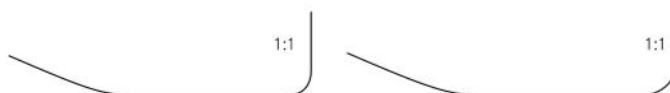


1:2

PARKER-LANGENBECK (US ARMY)

210 mm - 8 1/4"	Fig. 1	Fig. 2
	21 mm x 24 mm	25 mm x 24 mm
	40 mm x 15 mm	45 mm x 15 mm
DP-786-09-348	x	x

Set



1:1

1:1

Retractors



MATHIEU

200 mm - 8"	Fig. 1	Fig. 2
	42 mm x 13 mm	47 mm x 13 mm
	42 mm x 26 mm	46 mm x 26 mm
DP-786-09-349	x	x

Set



LANE

230 mm - 9"
35 mm x 19 mm
30 mm x 13 mm
DP-786-09-350

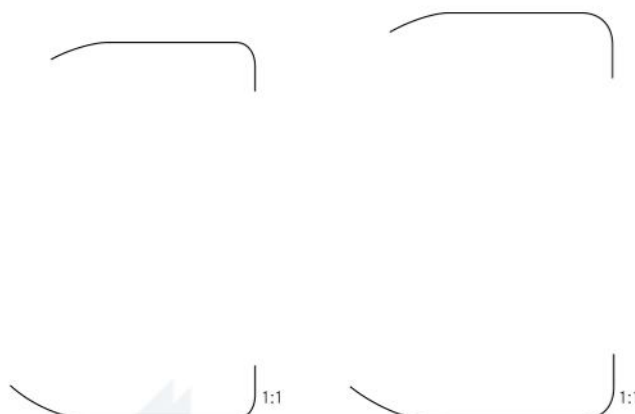
Retractors



FARABEUF

120 mm - 4 3/4"	Fig. 1	Fig. 2
	26 mm x 10 mm	30 mm x 10 mm
	30 mm x 12 mm	34 mm x 12 mm
DP-786-09-351	x	x

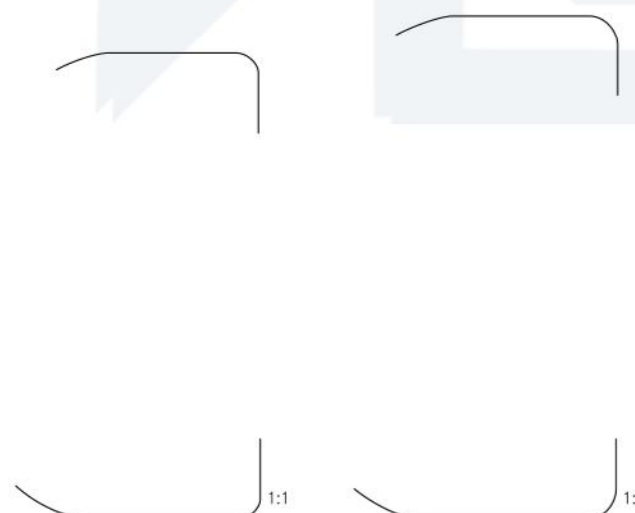
Set



FARABEUF

150 mm - 6"	Fig. 1	Fig. 2
	23 mm x 16 mm	27 mm x 16 mm
	26 mm x 16 mm	30 mm x 16 mm
DP-786-09-352	x	x

Set



Self-retaining retractors

ALM

70 mm - 2¾"	DP-786-09-353	DP-786-09-354	DP-786-09-355
100 mm - 4"	DP-786-09-356	DP-786-09-357	DP-786-09-358
	<i>sharp</i>	<i>semi sharp</i>	<i>blunt</i>


HOLTZHEIMER

100 mm - 4"	DP-786-09-359	DP-786-09-360
	<i>sharp</i>	<i>blunt</i>


BOSE

70 mm - 2¾"
DP-786-09-361


JANSEN

100 mm - 4"	DP-786-09-362	DP-786-09-363
	<i>sharp</i>	<i>blunt</i>

Self-retaining retractors

CLOWARD-CONTOUR

140 mm - 5½"	DP-786-09-364	DP-786-09-365
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3x4
sharp

3x4
blunt

WULLSTEIN

100 mm - 4"	DP-786-09-366	DP-786-09-367
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3x3
sharp

3x3
blunt

WEITLANER-WULLSTEIN

130 mm - 5"	DP-786-09-368	DP-786-09-369
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3x3
sharp

3x3
blunt

MILLIGAN

130 mm - 5"	DP-786-09-370
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3x3
blunt

Self-retaining retractors



BELUCCI

110 mm - 4 1/4"	DP-786-09-371	DP-786-09-372
130 mm - 5"	DP-786-09-373	DP-786-09-374

1x2
left, blunt

1x2
right, blunt



MOLLISON

150 mm - 6"
[DP-786-09-375](#)

4x4
sharp

1:2

Self-retaining retractors



PLESTER

130 mm – 5"

DP-786-09-376

DP-786-09-377

2x2
blunt

2x2
sharp



PLESTER

110 mm – 4 1/4"

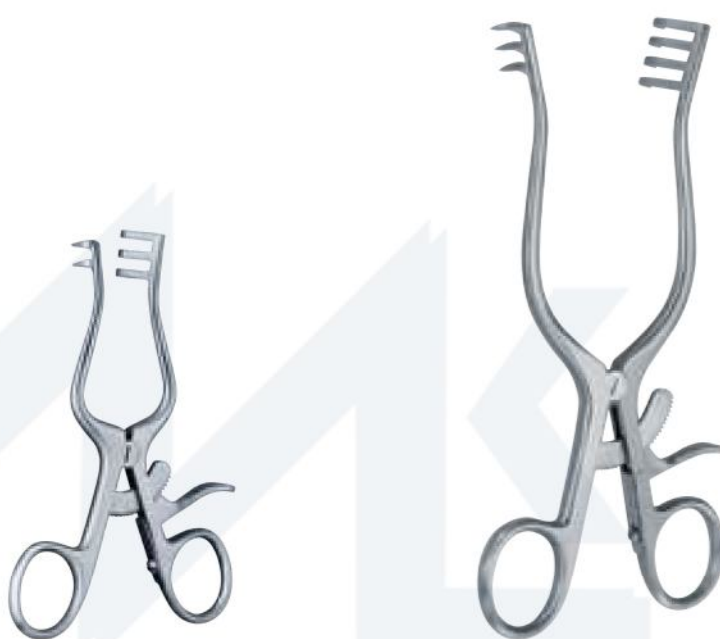
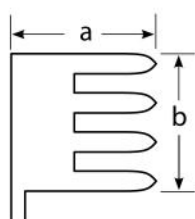
DP-786-09-378

DP-786-09-379

2x1
left, blunt

1x2
right, blunt

Self-retaining retractors



WEITLANER-LOKTITE

105 mm - 4 $\frac{1}{4}$ "	a = 17 mm - b = 13 mm	DP-786-09-380	DP-786-09-381	DP-786-09-382			
130 mm - 5"	a = 17 mm - b = 17 mm				DP-786-09-383	DP-786-09-384	DP-786-09-385
165 mm - 6 $\frac{1}{2}$ "	a = 17 mm - b = 17 mm				DP-786-09-386	DP-786-09-387	DP-786-09-388
200 mm - 8"	a = 20 mm - b = 19 mm				DP-786-09-389	DP-786-09-390	DP-786-09-391
260 mm - 10 $\frac{1}{4}$ "	a = 26 mm - b = 21 mm				DP-786-09-392	DP-786-09-393	DP-786-09-394

2 x 3
sharp

2 x 3
semi sharp

2 x 3
blunt

3 x 4
sharp

3 x 4
semi sharp

3 x 4
blunt

Self-retaining retractors


**NORFOLK
AND NORWICH**
220 mm – 8 $\frac{3}{4}$ "
DP786-09-395

4x5
blunt

1:2



TRAVES
215 mm – 8 $\frac{1}{2}$ "
DP786-09-396

4x5
blunt

1:2



ANDERSON-ADSON

195 mm – 7 $\frac{3}{4}$ "

DP786-09-397

DP786-09-398

4x4
sharp

4x4
blunt

1:2

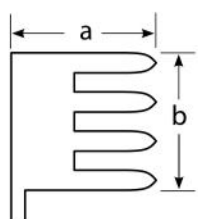


MAYO-ADAMS
165 mm – 6 $\frac{1}{2}$ "
DP786-09-399

2x2
blunt

1:2

Self-retaining retractors



ADSON (CONE)

130 mm - 5"	a = 17 mm - b = 19 mm	DP-786-09-400	DP-786-09-401
160 mm - 6 1/4"	a = 17 mm - b = 19 mm	DP-786-09-402	DP-786-09-403
200 mm - 8"	a = 20 mm - b = 20 mm	DP-786-09-404	DP-786-09-405
260 mm - 10 1/4"	a = 26 mm - b = 21 mm	DP-786-09-406	DP-786-09-407

3x4
sharp

3x4
blunt



BECKMANN-EATON

320 mm - 12 1/2"
DP-786-09-408

7x7
sharp

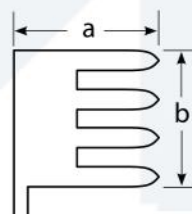
1:2

Self-retaining retractors



BECKMANN

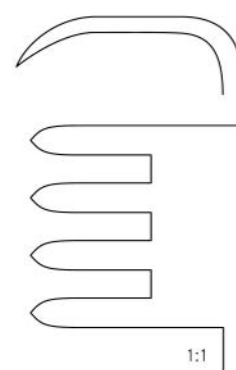
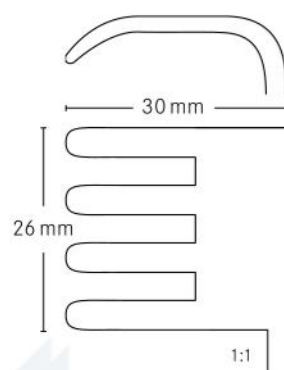
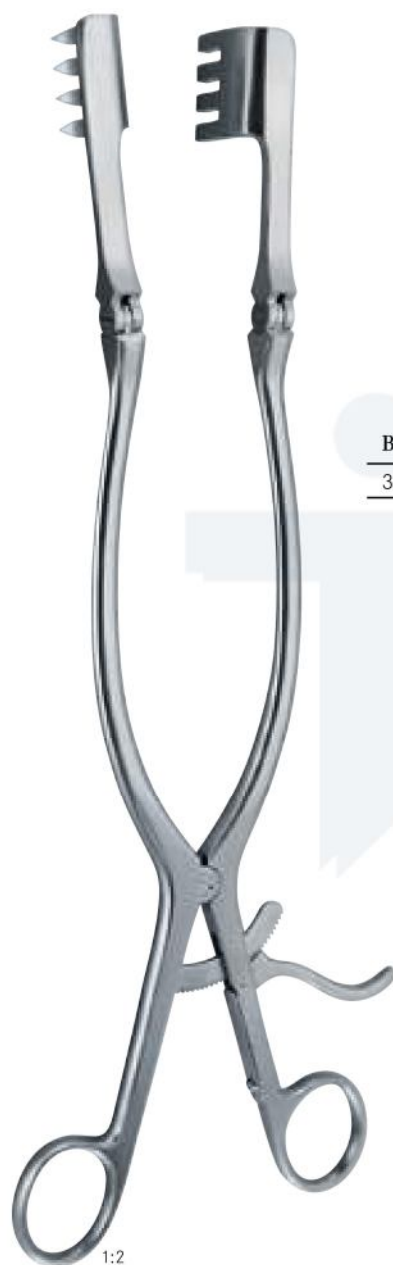
310 mm - 12 1/4"	DP-786-09-409	DP-786-09-410	DP-786-09-411
	4x4 <i>sharp</i>	4x4 <i>semi sharp</i>	4x4 <i>blunt</i>



ADSON

		265 mm - 10 1/2"	265 mm - 10 1/2"
3x4	a = 24 mm - b = 24 mm	DP-786-09-412	DP-786-09-413
6x6	a = 40 mm - b = 40 mm	DP-786-09-414	DP-786-09-415
		<i>sharp</i>	<i>blunt</i>

Self-retaining retractors



BECKMANN-ADSON

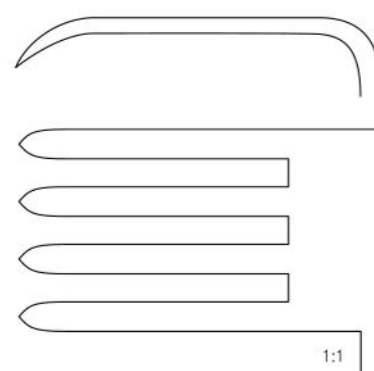
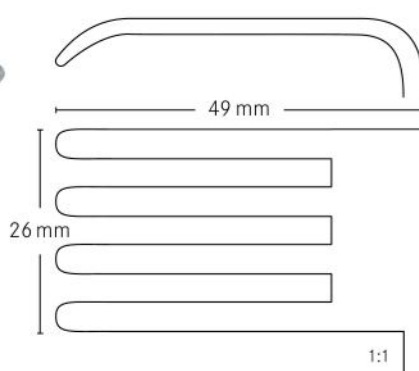
310 mm - 12 1/4"

DP-786-09-416

DP-786-09-417

blunt

sharp



DP-786-09-418

DP-786-09-419

blunt, with deep blades

sharp, with deep blades

Self-retaining retractors



GELPI-LOKTITE

90 mm - 3 1/2"	DP-786-09-420	
110 mm - 4 1/4"	DP-786-09-421	
130 mm - 5"	DP-786-09-422	
180 mm - 7"	DP-786-09-423	DP-786-09-424

MARKHAM-MEYERDING

180 mm - 7"	DP-786-09-425	DP-786-09-426
	right	left



RIGBY

180 mm - 7"
DP-786-09-427

Self-retaining retractors



HENLEY

165 mm - 6 1/2"	DP-786-09-428	DP-786-09-429
3x4 sharp		3x4 blunt

complete with 3 center blades



19 mm x 16 mm	25 mm x 16 mm	32 mm x 16 mm
DP-786-09-430	DP-786-09-431	DP-786-09-432

Center blades

Abdominal retractors

BABY-COLLIN

180 mm - 7"		
x = 80 mm		
DP-786-09-433	40 mm x 18 mm	40 mm x 27 mm

complete with 2 pairs of blades


COLLIN

220 mm - 8 3/4"		
x = 100 mm		
DP-786-09-434		


COLLIN

225 mm - 8 3/4"		
x = 100 mm		
DP-786-09-435	a = 38 mm - b = 60 mm	a = 38 mm - b = 55 mm
DP-786-09-436	a = 38 mm - b = 80 mm	a = 50 mm - b = 75 mm
DP-786-09-437	a = 37 mm - b = 98 mm	a = 53 mm - b = 76 mm

complete with

Lateral blades

Center blade

Abdominal retractors

COLLIN

260 mm - 10 $\frac{1}{4}$ "		
x = 150 mm		
DP-786-09-438	60 mm x 80 mm	60 mm x 75 mm
<i>complete with</i>	<i>Lateral blades</i>	<i>Center blade</i>


HOLZBACH

260 mm - 10 $\frac{1}{4}$ "		
x = 100 mm		
DP-786-09-439	62 mm x 80 mm	80 mm x 80 mm
<i>complete with</i>	<i>Lateral blades</i>	<i>Center blade</i>

Abdominal retractors

GOSSET

125 mm – 5"

x = 100 mm

DP-786-09-440

GOSSET

185 mm – 7 1/4"

x = 140 mm

DP-786-09-441

Abdominal retractors

GOSSET

x = 160 mm		
	35 mm x 63 mm	65 mm x 70 mm
<i>complete with</i>	<i>Lateral blades</i>	<i>Center blade</i>


BALFOUR

x = 200 mm		
	35 mm x 100 mm	70 mm x 100 mm
<i>complete with</i>	<i>Lateral blades</i>	<i>Center blade</i>


BALFOUR-BABY

x = 90 mm		
	27 mm x 27 mm	20 mm x 24 mm
<i>complete with</i>	<i>Lateral blades</i>	<i>Center blade</i>

Abdominal retractors

BALFOUR

x = 180 mm		
DP-786-09-445	35 mm x 70 mm	45 mm x 80 mm
<i>complete with</i>	<i>Lateral blades</i>	<i>Center blade</i>

x = 250 mm		
DP-786-09-446	35 mm x 100 mm	70 mm x 85 mm
<i>complete with</i>	<i>Lateral blades</i>	<i>Center blade</i>

45 mm x 80 mm	DP-786-09-447
70 mm x 85 mm	DP-786-09-448
80 mm x 90 mm	DP-786-09-449

Center blades, only


BALFOUR US

x = 180 mm		
DP-786-09-450	60 mm	70 mm x 85 mm
	80 mm	

complete with 2 pairs of blades *Center blade*

60 mm	DP-786-09-451	70 mm x 85 mm	DP-786-09-452
80 mm	DP-786-09-453	<i>Center blades, only</i>	

Lateral blades,

Abdominal retractors



RICARD

DP-786-09-454	60 mm x 80 mm	55 mm x 70 mm
<i>complete with</i>	<i>Lateral blades</i>	<i>Center blade</i>



O'SULLIVAN-O'CONNOR

DP-786-09-455	45 mm x 90 mm	70 mm x 100 mm
<i>complete with</i>	<i>Lateral blades</i>	<i>Center blades</i>

DP-786-09-456	70 mm x 85 mm	80 mm x 90 mm
<i>complete with</i>	<i>Lateral blades</i>	<i>Center blade</i>

Abdominal retractors



KIRSCHNER, OVAL

	240 mm x 300 mm	50 mm x 65 mm	80 mm x 90 mm	50 mm x 98 mm	35 mm x 105 mm
	DP-786-09-457	DP-786-09-458	DP-786-09-459	DP-786-09-460	DP-786-09-461
	1 Frame	3 Blades	1 Blade	1 Blade	1 Blade

DP-786-09-462	x	x	x	x	x
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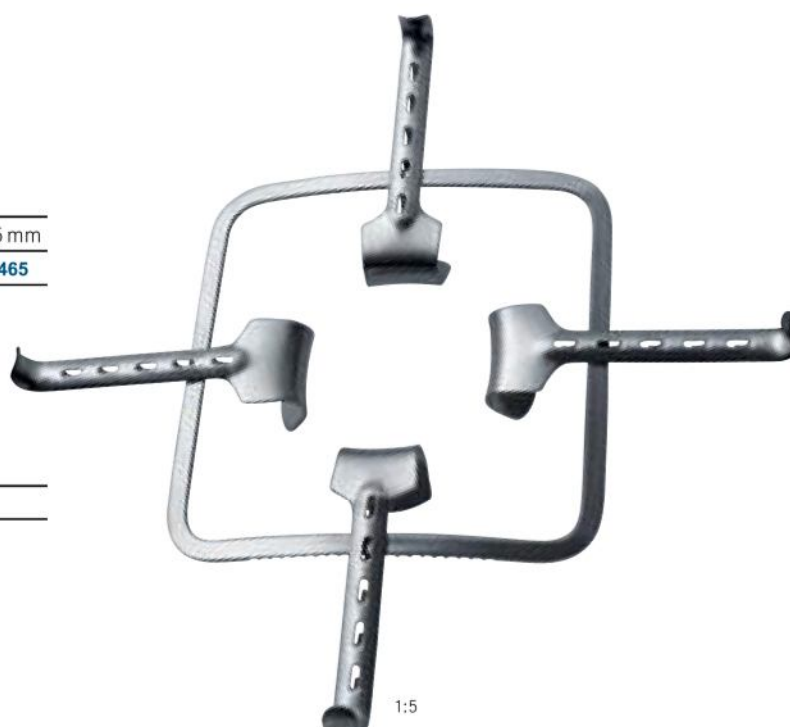
Set

KIRSCHNER

	240 mm x 240 mm	40 mm x 55 mm	50 mm x 65 mm
	DP-786-09-463	DP-786-09-464	DP-786-09-465
	1 Frame, rigid	2 Blades	2 Blades

DP-786-09-466	x	x	x
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Set



Abdominal retractors



FRANZ

	300 mm x 300 mm	40 mm x 60 mm	45 mm x 80 mm	50 mm x 65 mm	60 mm x 85 mm
	DP-786-09-467	DP-786-09-468	DP-786-09-469	DP-786-09-470	DP-786-09-471
	<i>1 Frame, foldable</i>	<i>2 Blades</i>	<i>2 Blades</i>	<i>2 Blades</i>	<i>2 Blades</i>

DP-786-09-472	x	x		x	
DP-786-09-473	x	x	x	x	x

Set



Frame foldable

Abdominal retractors



Blades for Kirschner- and Franz-frames



	40 mm x 60 mm	45 mm x 80 mm	40 mm x 55 mm	50 mm x 65 mm
Kirschner			DP-786-09-474	DP-786-09-475
Franz	DP-786-09-476	DP-786-09-477		DP-786-09-478



	60 mm x 85 mm	80 mm x 90 mm	50 mm x 98 mm	35 mm x 105 mm
Kirschner	DP-786-09-479	DP-786-09-480	DP-786-09-481	DP-786-09-482
Franz	DP-786-09-483		DP-786-09-484	DP-786-09-485

Retractors



ROCHARD

DP-786-09-486

Fixing frame, one sided



ROCHARD

DP-786-09-488

Fixing frame, double sided

ROCHARD

DP-786-09-487

Fixing frame, double sided



50 x 95 mm	DP-786-09-489
50 x 105 mm	DP-786-09-490
60 x 120 mm	DP-786-09-491
60 x 135 mm	DP-786-09-492
60 x 155 mm	DP-786-09-493

Retractors



1:2



1:2



1:2



1:2

O'SULLIVAN-O'CONNOR

	Fig. 1	Fig. 2	Fig. 3
	45 mm x 17 mm	90 mm x 37 mm	90 mm x 45 mm
	DP-786-09-495	DP-786-09-496	DP-786-09-497
DP-786-09-494	x	x	x

complete



1:2

FRIEDMANN

100 mm - 4"

DP-786-09-498

Abdominal spatulas


	30 mm	40 mm	50 mm
330 mm - 13 "	DP-786-09-499	DP-786-09-500	DP-786-09-501

malleable


MARTIN

200 mm - 8 "	200 mm - 8 "	250 mm - 9 3/4 "
12 mm	17 mm	25 mm
DP-786-09-502	DP-786-09-503	DP-786-09-504

soft

	6,5 mm	9,5 mm	13 mm	16 mm	19 mm	25 mm
200 mm - 8 "	DP-786-09-505	DP-786-09-506	DP-786-09-507	DP-786-09-508	DP-786-09-509	DP-786-09-510

malleable, very soft

Abdominal spatulas

HABERER

200 mm - 8 "	280 mm - 11 "	300 mm - 12 "
17 mm / 25 mm	25 mm / 30 mm	37 mm / 45 mm
DP-786-09-511	DP-786-09-512	DP-786-09-513

malleable

REVERDIN

280 mm - 11 "
46 mm x 60 mm
DP-786-09-514

1:2

Laminectomy retractors



CLOWARD

160 mm – 6 1/4"

DP-786-09-515

complete with 2 blades ea. Fig. 1 - Fig. 5



250 mm – 9 3/4"

DP-786-09-516

complete with 2 blades ea. Fig. 1 - Fig. 5

DP-786-09-517

Retractor without blades

DP-786-09-518

Retractor without blades



Fig. 1	x = 60 mm	DP-786-09-519
Fig. 2	x = 55 mm	DP-786-09-520
Fig. 3	x = 50 mm	DP-786-09-521
Fig. 4	x = 45 mm	DP-786-09-522
Fig. 5	x = 40 mm	DP-786-09-523

blunt



Fig. 1	x = 60 mm	DP-786-09-524
Fig. 2	x = 55 mm	DP-786-09-525
Fig. 3	x = 50 mm	DP-786-09-526
Fig. 4	x = 45 mm	DP-786-09-527
Fig. 5	x = 40 mm	DP-786-09-528

toothed

Laminectomy retractors



INGE

165 mm - 6½"	270 mm - 10¾"
DP-786-09-529	DP-786-09-530



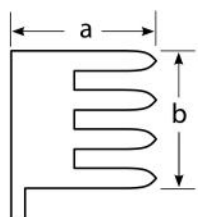
CLOWARD-
VERTEBREA

160 mm - 6¼"

DP-786-09-531

Laminectomy retractors



Laminectomy retractors

SCOVILLE

50 mm - 2"	DP-786-09-534	DP-786-09-535
70 mm - 2 ³ / ₄ "	DP-786-09-536	DP-786-09-537

blunt
sharp

TAYLOR

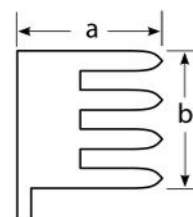
a = 48 mm - b = 50 mm - 2" x 2"	DP-786-09-538
a = 63 mm - b = 50 mm - 2 ¹ / ₂ " x 2"	DP-786-09-539
a = 64 mm - b = 64 mm - 3 ¹ / ₄ " x 2 ¹ / ₄ "	DP-786-09-540


SCOVILLE

a = 40 mm - b = 37 mm - 1 ¹ / ₂ " x 1 ¹ / ₂ "	DP-786-09-541
a = 65 mm - b = 44 mm - 2 ¹ / ₂ " x 1 ³ / ₄ "	DP-786-09-542


TAYLOR

a = 100 mm - b = 42 mm - 4" x 1 ⁶ / ₈ "	DP-786-09-543
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Laminectomy retractors

MEYERDING

a = 57 mm - b = 25 mm - 2 1/4" x 1"	DP-786-09-544
a = 76 mm - b = 25 mm - 3" x 1"	DP-786-09-545
a = 88 mm - b = 51 mm - 3 1/2" x 2"	DP-786-09-546


SCOVILLE

a = 57 mm - b = 25 mm - 2 1/4" x 1"	DP-786-09-547
a = 57 mm - b = 38 mm - 2 1/4" x 1 1/2"	DP-786-09-548
a = 64 mm - b = 50 mm - 2 1/2" x 2"	DP-786-09-549
a = 75 mm - b = 25 mm - 3" x 1"	DP-786-09-550


EPSTEIN

a = 56 mm - b = 25 mm - 2 1/4" x 1"	DP-786-09-551
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HIBBS

a = 50 mm - b = 20 mm - 2" x 3/4"	DP-786-09-552
a = 50 mm - b = 25 mm - 2" x 1"	DP-786-09-553
a = 50 mm - b = 50 mm - 2" x 2"	DP-786-09-554
a = 63 mm - b = 25 mm - 2 1/2" x 1"	DP-786-09-555
a = 63 mm - b = 37 mm - 2 1/2" x 1 1/2"	DP-786-09-556
a = 76 mm - b = 25 mm - 3" x 1"	DP-786-09-557
a = 76 mm - b = 38 mm - 3" x 1 1/2"	DP-786-09-558
a = 76 mm - b = 50 mm - 3" x 2"	DP-786-09-559
a = 76 mm - b = 63 mm - 3" x 2 1/2"	DP-786-09-560
a = 90 mm - b = 25 mm - 3 1/2" x 1"	DP-786-09-561
a = 90 mm - b = 37 mm - 3 1/2" x 1 1/2"	DP-786-09-562
a = 102 mm - b = 25 mm - 4" x 1"	DP-786-09-563
a = 102 mm - b = 50 mm - 4" x 2"	DP-786-09-564

Laminectomy retractors



CASPAR

DP-786-09-565

und mit 5 lateral Valven

DP-786-09-566

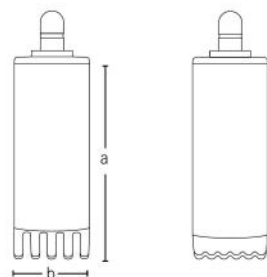
complete with 5 blades

DP-786-09-567

Retractor without blades

DP-786-09-568

Retractor without blades



CASPAR

	medial	lateral
a = 40 mm - b = 23 mm	DP-786-09-569	DP-786-09-570
a = 45 mm - b = 23 mm	DP-786-09-571	DP-786-09-572
a = 50 mm - b = 23 mm	DP-786-09-573	DP-786-09-574
a = 55 mm - b = 23 mm	DP-786-09-575	DP-786-09-576
a = 60 mm - b = 23 mm	DP-786-09-577	DP-786-09-578



CASPAR

a = 45 mm - b = 23 mm	DP-786-09-579
a = 50 mm - b = 23 mm	DP-786-09-580
a = 55 mm - b = 23 mm	DP-786-09-581
a = 60 mm - b = 23 mm	DP-786-09-582
a = 65 mm - b = 23 mm	DP-786-09-583

blunt

Laminectomy retractors



CASPAR

DP-786-09-584

complete with 6 blades



DP-786-09-585

complete with 5 blades tk

DP-786-09-586

Retractor without blades

DP-786-09-587

Retractor only, with key

DP-786-09-588

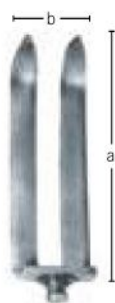
Key



Laminectomy retractors

CASPAR

38 mm	58 mm
DP-786-09-589	DP-786-09-590



a = 35 mm - b = 22 mm	DP-786-09-591
a = 40 mm - b = 22 mm	DP-786-09-592
a = 45 mm - b = 22 mm	DP-786-09-593
a = 50 mm - b = 22 mm	DP-786-09-594
a = 55 mm - b = 22 mm	DP-786-09-595
a = 60 mm - b = 22 mm	DP-786-09-596
a = 65 mm - b = 22 mm	DP-786-09-597
a = 70 mm - b = 22 mm	DP-786-09-598



a = 35 mm - b = 37 mm	DP-786-09-599
a = 40 mm - b = 37 mm	DP-786-09-600
a = 45 mm - b = 37 mm	DP-786-09-601
a = 50 mm - b = 37 mm	DP-786-09-602
a = 55 mm - b = 37 mm	DP-786-09-603
a = 60 mm - b = 37 mm	DP-786-09-604
a = 65 mm - b = 37 mm	DP-786-09-605
a = 70 mm - b = 37 mm	DP-786-09-606



a = 35 mm - b = 52 mm	DP-786-09-607
a = 40 mm - b = 52 mm	DP-786-09-608
a = 45 mm - b = 52 mm	DP-786-09-609
a = 50 mm - b = 52 mm	DP-786-09-610
a = 55 mm - b = 52 mm	DP-786-09-611
a = 60 mm - b = 52 mm	DP-786-09-612
a = 65 mm - b = 52 mm	DP-786-09-613
a = 70 mm - b = 52 mm	DP-786-09-614

Retractors for Micro-Lumbar Discectomy



With black finish

CASPAR

a = 40 mm	DP-786-09-615
a = 45 mm	DP-786-09-616
a = 50 mm	DP-786-09-617
a = 55 mm	DP-786-09-618
a = 60 mm	DP-786-09-619
a = 65 mm	DP-786-09-620
a = 75 mm	DP-786-09-621
a = 85 mm	DP-786-09-622



CASPAR

[DP-786-09-623](#)



With black finish

CASPAR

a = 35 mm	DP-786-09-624	
a = 40 mm	DP-786-09-625	DP-786-09-626
a = 45 mm	DP-786-09-627	DP-786-09-628
a = 50 mm	DP-786-09-629	DP-786-09-630
a = 55 mm	DP-786-09-631	DP-786-09-632
a = 60 mm	DP-786-09-633	DP-786-09-634
a = 65 mm	DP-786-09-635	DP-786-09-636
a = 70 mm		DP-786-09-637
a = 75 mm	DP-786-09-638	
a = 85 mm	DP-786-09-639	

Speculum for hypophysectomy



With black finish



x = 70 mm	DP-786-09-640
x = 90 mm	DP-786-09-641
x = 110 mm	DP-786-09-642

Speculum for trans-sphenoidal hypophysectomy