HKH BROTHERS SURGICAL

ROBUST SURGICAL RETRACTORS

Precision Cutting for Every Procedure

- Superior Sharpness
- Precision Crafted
- Durable Performance
- Trusted by Professionals



Superior Surgical Solutions

Nasenhäkchen
Nasal hooks
Crochets nasales
Ganchitos nasales
Uncini nasali

KILNER 1:2



150 mm – 6 "
08-101-150

JOSEPH 1:2



150 mm – 6 "
08-102-150

LANGE 1:2



220 mm – 8 ¾ "
08-103-220

COTTLE 1:2



160 mm – 6 ¼ "
08-104-160

FOMON 1:2



170 mm – 6 ¾ "
08-105-170

COTTLE 1:2



1:1



1:1



1:1



150 mm – 6 "	08-106-001	08-106-002	08-106-003

Nasenhäkchen
Nasal hooks
Crochets nasales
Ganchitos nasales
Uncini nasali



160 mm – 6 ¼ "	08-107-160	08-108-160
	scharf sharp pointu agudo acuto	stumpf blunt mousse romo smusso

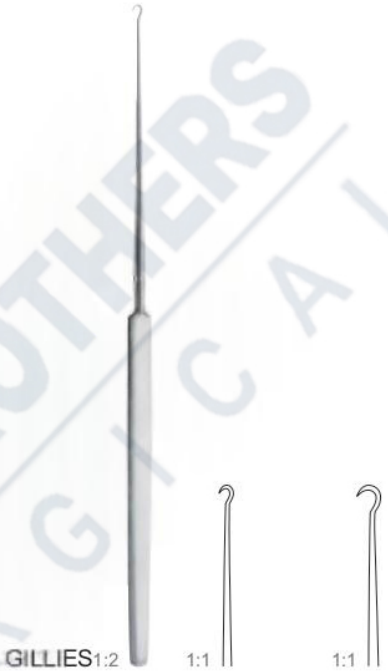
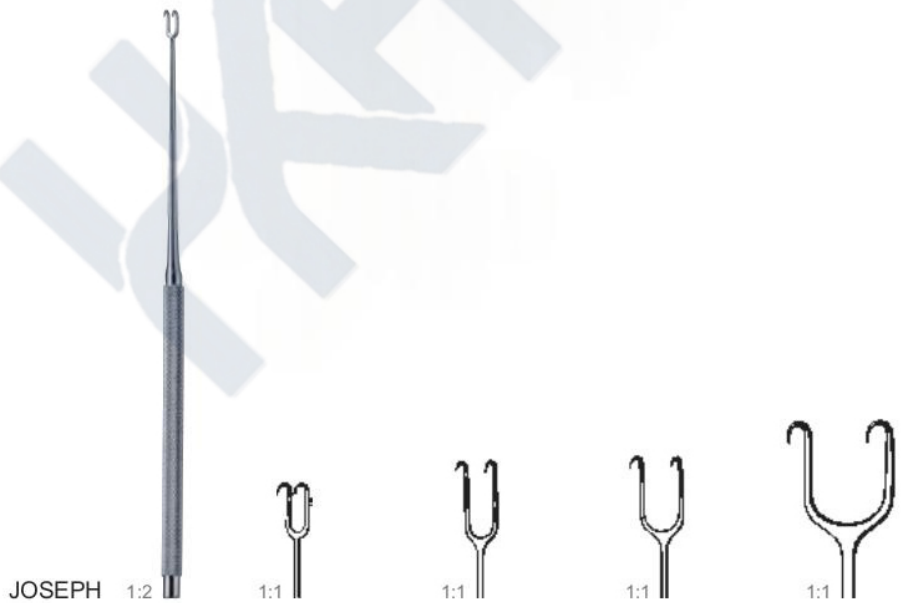


	Fig. 1	Fig. 2
180 mm – 7 "	08-109-001	08-109-002



	2 mm	5 mm	7 mm	10 mm
160 mm – 6 ¼ "	08-110-002	08-110-005	08-110-007	08-110-010

Nasenhäkchen
Nasal hooks

Crochets nasales
Ganchitos nasales
Uncini nasali



COTTLE-NEIVERT 1:2

200 mm – 8 "	08-111-200



FOMON 1:2

160 mm – 6 ¼ "	08-112-160









COTTLE 1:2 1:1 1:1 1:1

150 mm – 6 "	08-112-140	08-113-010	08-113-020



NEIVERT 1:2

160 mm – 6 ¼ "	08-114-160

Nasen- und trachealhäkchen
Nose and trachea hooks

Ecarteurs nasales et tracheales
Separadores traqueales y nasales
Uncini tracheali e nasali



AUFRICHT 1:2

160 mm – 6 ¼ "	160 mm – 6 ¼ "
08-115-160	08-116-160

mit Kaltlichtaufsatz
with F.O. light carrier
avec support lumière froide
con guía de luz fría
con supporto per luce fredda



KILNER 1:2

100 mm – 4 "	08-117-100



CONVERSE 1:2

120 mm – 4 ¾ "	08-118-120



COTTLE 1:2 1:2

150 mm – 6 "	08-119-150	08-120-150



JACKSON 1:2

150 mm – 6 "	08-121-150



LUKENS 1:2

170 mm – 6 "	08-122-170

stumpf
blunt
mousse
romo
smusso

Trachealhäkchen
Trachea hooks
Ecarteurs tracheales
Separadores traqueales
Uncini tracheali



JACKSON 1:2

170 mm – 6 "	08-123-170



JACKSON 1:2

180 mm – 7 "	08-124-180	08-125-180
	stumpf blunt mousse romo smusso	scharf sharp pointu agudo acuto

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



ROSE 1:2

130 mm – 5 "	08-126-130



LUER 1:2

110 mm – 4 ¼ "	08-127-110



SCHOENBORN 1:2

210 mm – 8 ¼ "	08-128-210

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori

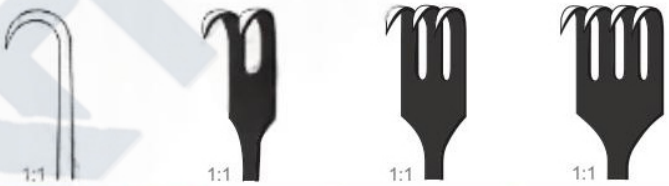


EMMET



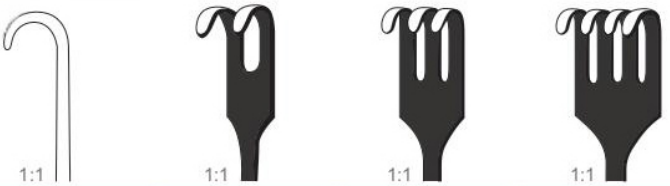
	Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5
220 mm – 8 ¾ "	08-129-001	08-129-002	08-129-003	08-129-004	08-129-005





160 mm – 6 ¼ "	08-130-001	08-130-002	08-130-003	08-130-004

scharf
sharp
pointu
agudo
acuto



160 mm – 6 ¼ "	08-131-001	08-131-002	08-131-003	08-131-004

stumpf
blunt
mousse
romo
smusso

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori





160 mm – 6 ¼ "	08-132-002	08-132-003	08-132-004
flexibel, scharf flexible, sharp flexible, pointu flexible, agudo flessibile, acuto			



160 mm – 6 ¼ "	08-133-002	08-133-003	08-133-004
flexibel, stumpf flexible, blunt flexible, mousse flexible, romo flessibile, smusso			



DESMARRES



	x = 8 mm	x = 10 mm	x = 12 mm
160 mm – 6 ¼ "	08-134-080	08-134-100	08-134-120



	x = 14 mm	x = 16 mm	x = 18 mm
160 mm – 6 ¼ "	08-134-140	08-134-160	08-134-180



KNAPP (ROLLET)

160 mm – 6 ¼ "	08-135-130	08-136-130	08-137-130
flexibel, scharf flexible, sharp flexible, pointu flexible, agudo flessibile, acuto	2 Zähne 2 Teeth 2 Dents 2 Dientes 2 Denti	3 Zähne 3 Teeth 3 Dents 3 Dientes 3 Denti	4 Zähne 4 Teeth 4 Dents 4 Dientes 4 Denti

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori





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 ¼ "	08-138-100	08-138-170	08-138-200	08-138-220





KOCHER

220 mm – 8 ¾ "	08-139-010	08-139-020	08-139-030	08-139-040	08-139-060	08-139-080

scharf
sharp
pointu
agudo
acuto



220 mm – 8 ¾ "	08-140-010	08-140-020	08-140-030	08-140-040	08-140-060	08-140-080

stumpf
blunt
mousse
romo
smusso



220 mm – 8 ¾ "	08-141-010	08-141-020	08-141-030	08-141-040	08-141-060	08-141-080

halbscharf
semi-sharp
semi-pointu
semi-agudo
semi-acuto

Wundhaken
Retractors

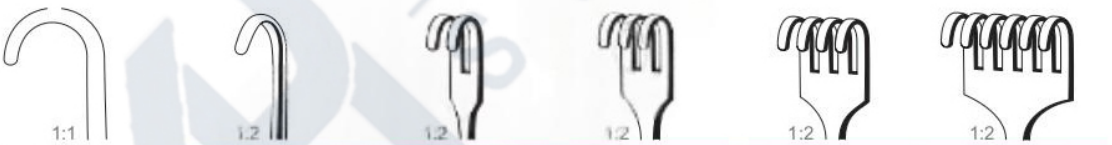
Ecarteurs
Separadores
Divaricatori





215 mm – 8 ½ "	08-142-001	08-142-002	08-142-003	08-142-004	08-142-006

scharf
sharp
pointu
agudo
acuto



215 mm – 8 ½ "	08-143-001	08-143-002	08-143-003	08-143-004	08-143-006

stumpf
blunt
mousse
romo
smusso



215 mm – 8 ½ "	08-144-010	08-144-020	08-144-030	08-144-040	08-144-060

halbscharf
semi-sharp
semi-pointu
semi-agudo
semi-acuto

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



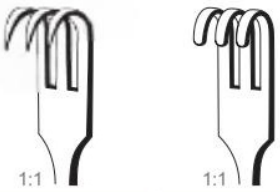
VOLKMANN



215 mm – 8 ½ "	08-145-010	08-146-010
	scharf sharp pointu agudo acuto	stumpf blunt mousse romo smusso



SENN-MUELLER



160 mm – 6 ¼ "	08-147-160	08-148-160
	scharf sharp pointu agudo acuto	stumpf blunt mousse romo smusso





KILNER

155 mm – 6 "	08-149-155

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



STRANDELL-
STILLE



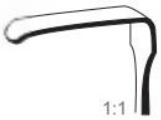


	20 mm x 6 mm	20 mm x 6 mm
190 mm – 7 ½ "	08-150-010	08-150-020

gezahnt
saw edge
dentelé
dentado
dentato



SENN-GREEN





	20 mm x 6 mm	10 mm x 6 mm
150 mm – 6 "	08-151-200	08-151-100



RAGNELL-
DAVIS

140 mm – 5 ½ "
08-152-140



COTTLE

150 mm – 6 "
08-153-140



CRILE

110 mm – 4 ¼ "
08-154-110

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori





MIDDELDORPF

14 mm x 17 mm	20 mm x 22 mm	26 mm x 30 mm
215 mm – 8 ½ "	220 mm – 8 ¾ "	235 mm – 9 ¼ "
08-155-001	08-155-002	08-155-003



MEYERDING



	18 mm x 7 mm	16 mm x 5 mm
180 mm – 7 "	08-157-010	08-157-020



	7 mm x 4 mm	7 mm x 4 mm
180 mm – 7 "	08-157-030	08-157-040



	10 mm x 3 mm	10 mm x 4 mm
180 mm – 7 "	08-157-050	08-157-060

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



KOERTE 1:2 1:1 1:1

	26 mm x 40 mm	26 mm x 40 mm
235 mm – 9 ¼ "	08-158-235	08-159-235
	scharf sharp pointu agudo acuto	stumpf blunt mousse romo smusso



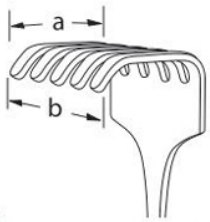
GREEN 1:2

215 mm – 8 ½ "	08-159-220

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori





ISRAEL



	a = 40 mm – b = 40 mm	a = 45 mm – b = 50 mm
250 mm – 9¾ "	08-160-400	08-160-500
	4 Zähne 4 Teeth 4 Dents 4 Dientes 4 Denti	5 Zähne 5 Teeth 5 Dents 5 Dientes 5 Denti



	a = 50 mm – b = 60 mm	a = 70 mm – b = 70 mm
250 mm – 9¾ "	08-160-600	08-160-700
	6 Zähne 6 Teeth 6 Dents 6 Dientes 6 Denti	6 Zähne 6 Teeth 6 Dents 6 Dientes 6 Denti



LANGENBECK



	Fig. 1	Fig. 2	Fig. 3
	30 mm x 11 mm	30 mm x 14 mm	30 mm x 16 mm
220 mm – 8¾ "	08-161-010	08-161-020	08-161-030



	Fig. 4	Fig. 5
	40 mm x 11 mm	50 mm x 11 mm
220 mm – 8¾ "	08-161-040	08-161-050

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



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 ¼ "	08-162-001	08-162-002	08-162-003





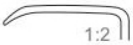
	Fig. 4	Fig. 5
	40 mm x 11 mm	50 mm x 11 mm
210 mm – 8 ¼ "	08-162-004	08-162-005



KOCHER-LANGENBECK
(OBWEGESER)









	25 mm x 6 mm	35 mm x 8 mm	35 mm x 11 mm	35 mm x 15 mm
215 mm – 8 ½ "	08-163-010	08-163-020	08-163-030	08-163-040







	42 mm x 11 mm	55 mm x 11 mm	70 mm x 14 mm
215 mm – 8 ½ "	08-163-050	08-163-060	08-163-070





	80 mm x 12 mm	80 mm x 16 mm
215 mm – 8 ½ "	08-163-080	08-163-090

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



CUSHING



	x = 8 mm	x = 10 mm	x = 12 mm	x = 14 mm	x = 16 mm	x = 18 mm
200 mm – 8"	08-164-080	08-164-100	08-164-120	08-164-140	08-164-160	08-164-180
240 mm – 9 ½"	08-165-080	08-165-100	08-165-120	08-165-140	08-165-160	08-165-180



OBWEGESER



	40 mm x 11 mm	55 mm x 11 mm
220 mm – 8 ¾"	08-166-400	08-166-550



	80 mm x 16 mm
220 mm – 8 ¾"	08-166-800

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori





OBWEGESER

	42 mm x 10 mm	70 mm x 11 mm
220 mm – 8 ¾ "	08-167-220	08-168-220



OBWEGESER

155 mm – 6 "	08-169-160



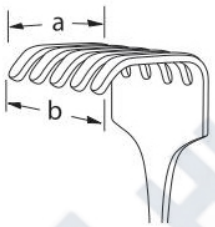
OBWEGESER

	x = 8 mm	x = 10 mm
160 mm – 6 ¼ "	08-170-080	08-170-100

biegsam
malleable
malléable
maleable
flessibile

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori





OLLIER

1:2 1:2

	a = 36 mm – b = 30 mm	a = 36 mm – b = 60 mm
225 mm – 8 ¾ "	08-171-003	08-171-004

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



KOCHER 1:2

	25 mm x 8 mm	55 mm x 11 mm	40 mm x 12 mm	75 mm x 12 mm	85 mm x 12 mm	100 mm x 12 mm
210 mm – 8 ¼ "	08-172-080	08-172-550	08-172-400	08-172-750	08-172-850	08-172-100



1:2

LANGENBECK

	55 mm x 20 mm	60 mm x 20 mm
210 mm – 8 ¼ "	08-173-220	08-173-210



1:2

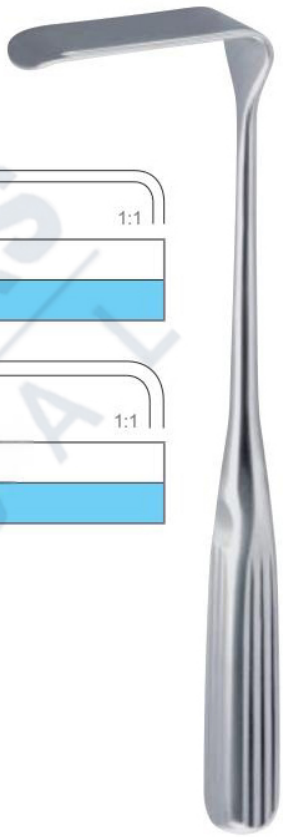
LANGENBECK

	85 mm x 15 mm
210 mm – 8 ¼ "	08-174-210

Griff vertikal zum Blatt
Handle vertical to the blade
Poignée verticale à la lame
Mango vertical a la hoja
Manico verticale verso la lama

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



SAUERBRUCH





	45 mm x 15 mm	60 mm x 23 mm
225 mm – 8 ¾ "	08-175-450	08-175-600



	75 mm x 20 mm
220 mm – 8 ¾ "	08-175-750



LAHEY

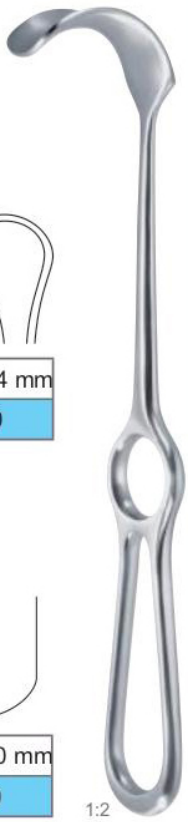
190 mm – 7 ½ "
28 mm x 6 mm
08-176-190



KOCHER



	19 mm x 12 mm	21 mm x 14 mm
190 mm – 7 ½ "	08-177-190	08-177-210



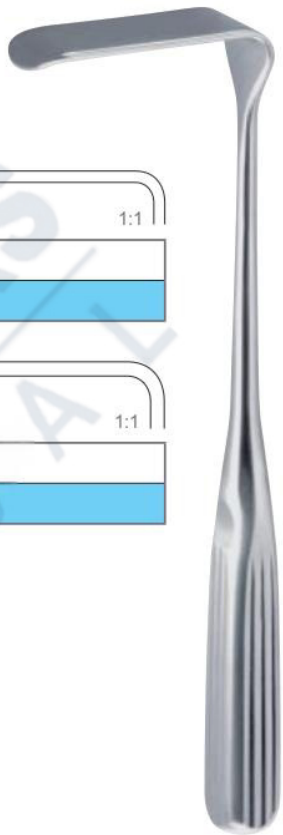
KOCHER



	40 mm x 10 mm	40 mm x 15 mm	40 mm x 20 mm
220 cm – 8 ¾ "	08-178-100	08-178-150	08-178-200

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



SAUERBRUCH





	45 mm x 15 mm	60 mm x 23 mm
225 mm – 8 ¾ "	08-175-450	08-175-600



	75 mm x 20 mm
220 mm – 8 ¾ "	08-175-750

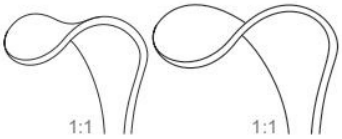


LAHEY

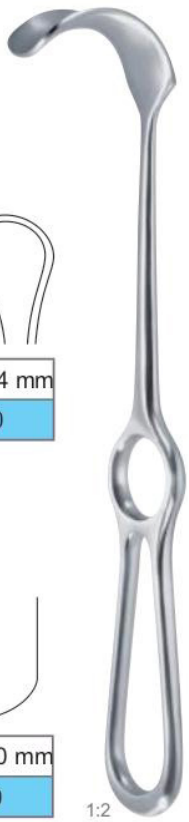
190 mm – 7 ½ "
28 mm x 6 mm
08-176-190



KOCHER



	19 mm x 12 mm	21 mm x 14 mm
190 mm – 7 ½ "	08-177-190	08-177-210



KOCHER



	40 mm x 10 mm	40 mm x 15 mm	40 mm x 20 mm
220 cm – 8 ¾ "	08-178-100	08-178-150	08-178-200

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



1:2

RICHARDSON-EASTMAN

	Fig. 1	Fig. 2
	280 mm – 11 "	260 mm – 10¼ "
	49 mm x 38 mm	36 mm x 28 mm
	71 mm x 43 mm	28 mm x 20 mm
08-181-010	x	
08-181-020		x
08-181-000	x	x



1:2

RICHARDSON

240 mm – 9 ½ "
52 mm x 22 mm
08-182-240



1:2

KELLY

260 mm – 10 ¼ "
65 mm x 50 mm
08-183-260

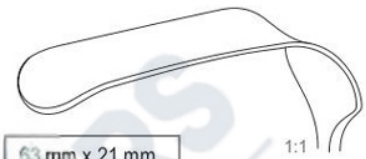
Wundhaken
Retractors

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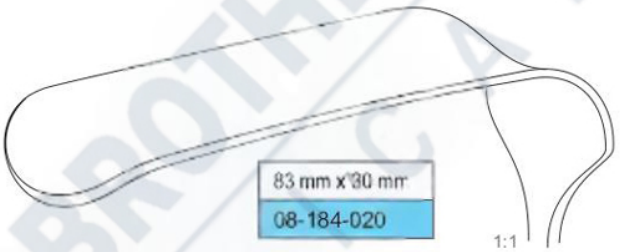


HOESEL

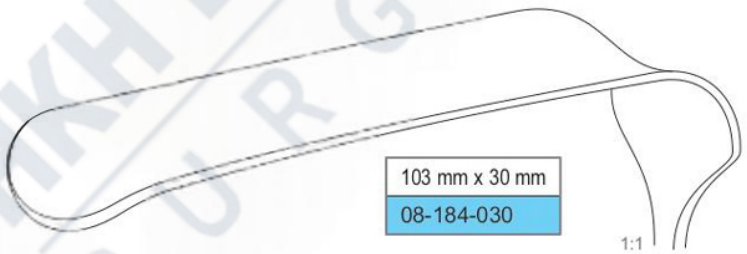
260 mm – 10 ¼"



63 mm x 21 mm
08-184-010



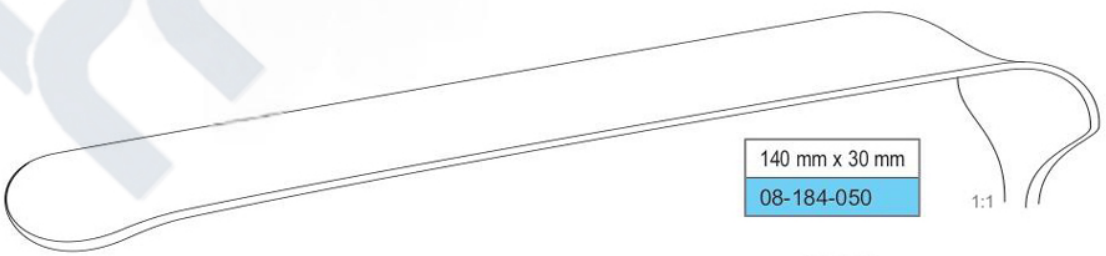
83 mm x 30 mm
08-184-020



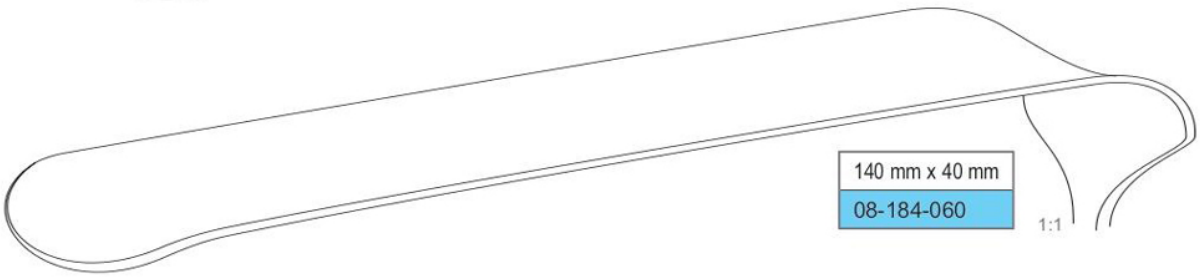
103 mm x 30 mm
08-184-030



120 mm x 30 mm
08-184-040



140 mm x 30 mm
08-184-050

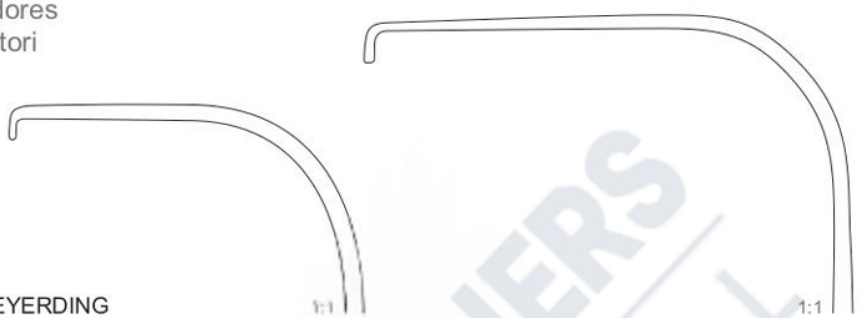


140 mm x 40 mm
08-184-060

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



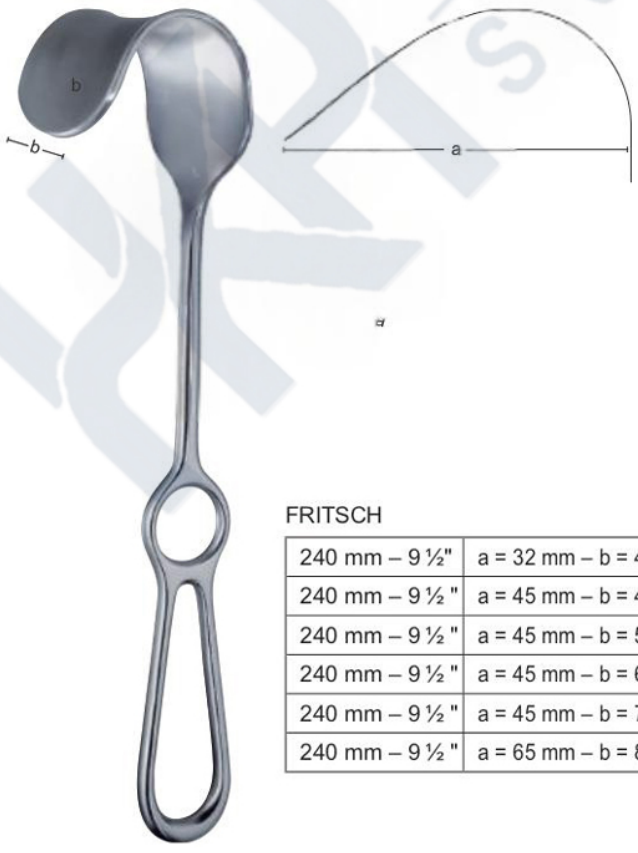


MEYERDING

200 mm – 8 "	220 mm – 8 ¾ "
50 mm x 16 mm	75 mm x 25 mm
08-185-010	08-185-020



240 mm – 9 ½ "
90 mm x 50 mm
08-185-030



FRITSCH

240 mm – 9 ½"	a = 32 mm – b = 40 mm	08-186-000
240 mm – 9 ½ "	a = 45 mm – b = 40 mm	08-186-001
240 mm – 9 ½ "	a = 45 mm – b = 50 mm	08-186-002
240 mm – 9 ½ "	a = 45 mm – b = 60 mm	08-186-003
240 mm – 9 ½ "	a = 45 mm – b = 75 mm	08-186-004
240 mm – 9 ½ "	a = 65 mm – b = 85 mm	08-186-005

Wundhaken
Retractors

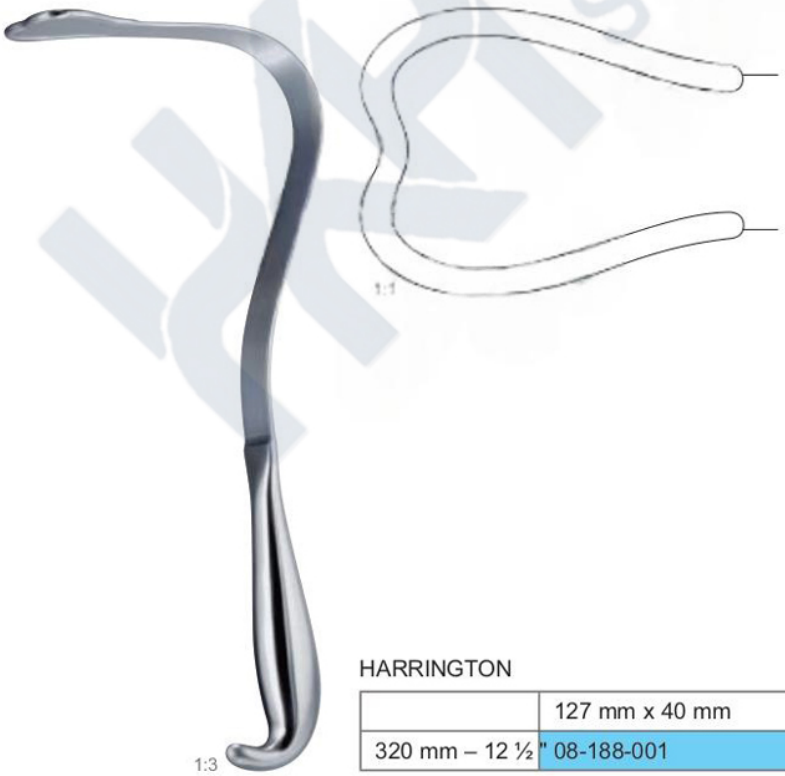
Ecarteurs
Separadores
Divaricatori

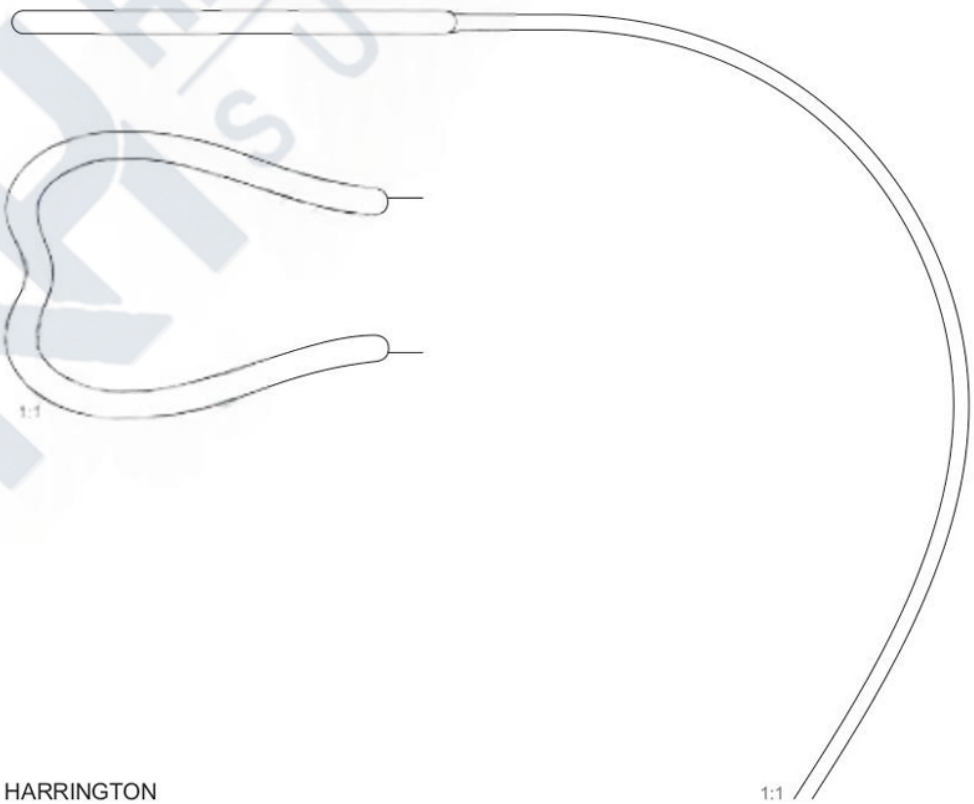




SIMON

	115 mm x 22 mm	115 mm x 27 mm
280 cm – 11 "	08-187-220	08-187-270





HARRINGTON

	127 mm x 40 mm	127 mm x 62 mm
320 mm – 12 ½ "	08-188-001	08-188-002

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori





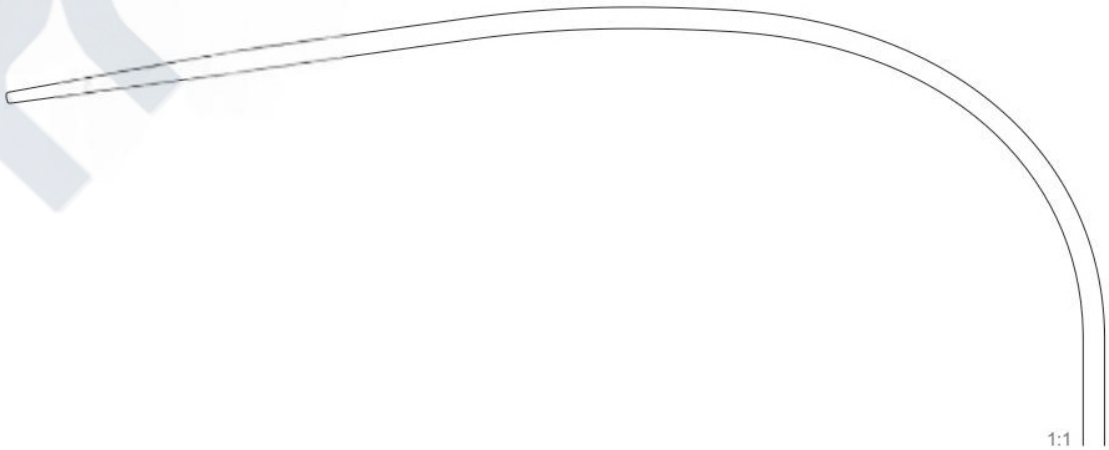
MIKULICZ 1:1

	95 mm x 35 mm
260 mm – 10 ¼"	08-189-095



1:1

120 mm x 50 mm
08-189-120



1:1

150 mm x 50 mm	180 mm x 50 mm
08-189-150	08-189-180

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



MIKULICZ

260 mm – 10 ¼ " 90 mm x 50 mm	08-190-090



DAVIDSON

	a = 75 mm – b = 50 mm	a = 75 mm – b = 90 mm
160 mm – 6 ¼ "	08-191-500	08-191-900

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



KELLY

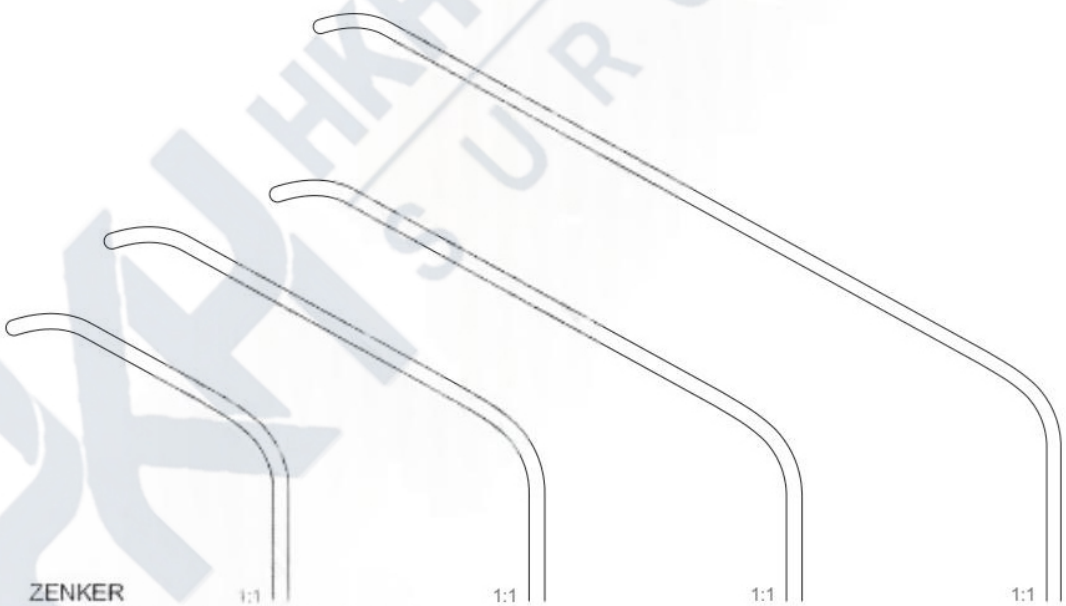
1:3

	160 mm x 38 mm	190 mm x 38 mm	160 mm x 57 mm	190 mm x 57 mm
270 mm – 10 ¾ "	08-192-380	08-192-381	08-192-570	08-192-571

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori





ZENKER

250 mm – 9 ¾ "	260 mm – 10 ¼ "	275 mm – 10 ¾ "	290 mm – 11 ½ "
35 mm x 8 mm	60 mm x 12 mm	75 mm x 12 mm	120 mm x 12 mm
08-193-350	08-193-600	08-193-750	08-193-100

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori

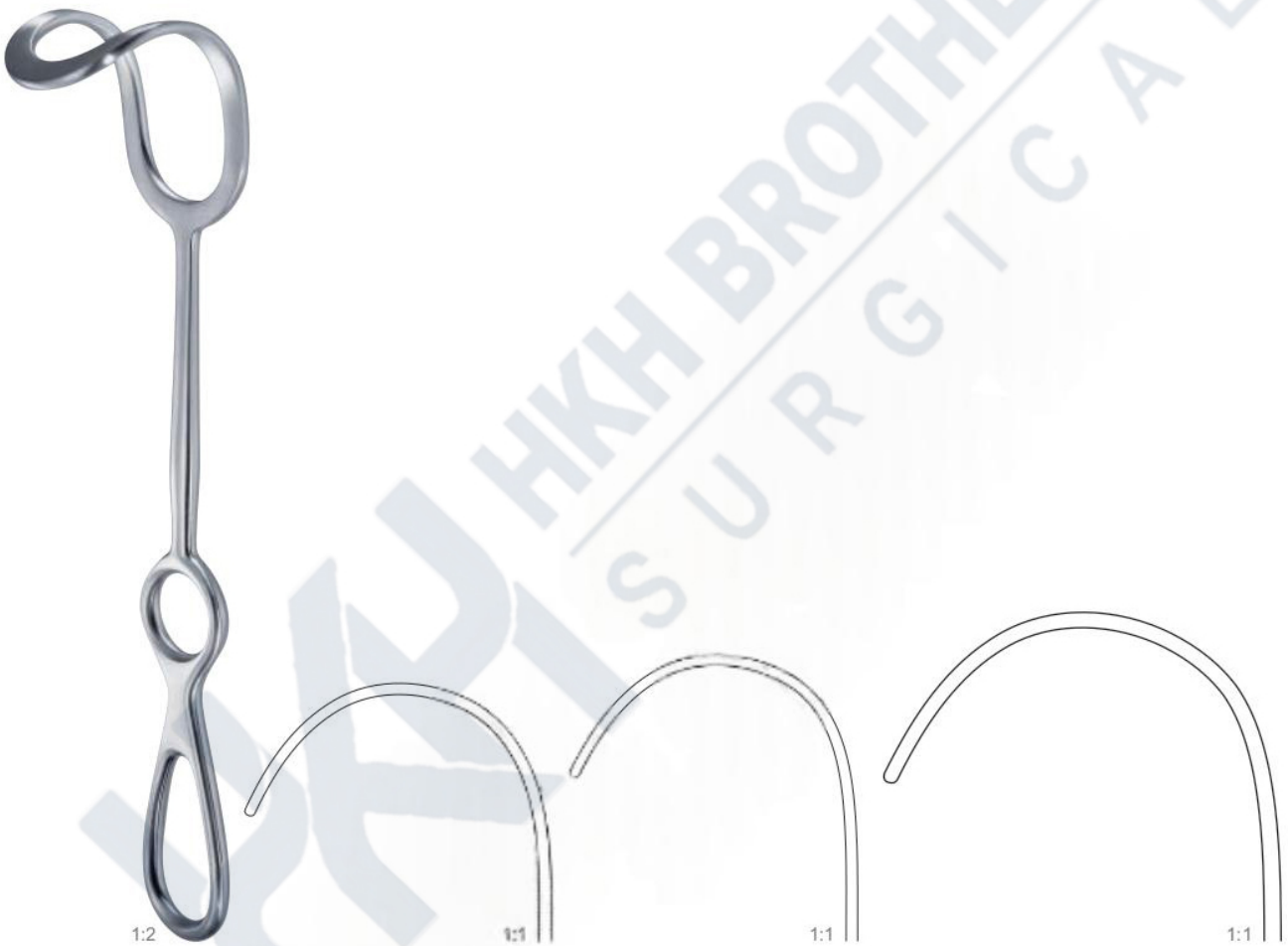


COOLEY 1:2 1:2 1:2

250 mm – 9 ¾ "	250 mm – 9 ¾ "	270 mm – 10 ½ "
08-194-010	08-194-020	08-194-030
rechts right droite derecha destra	rechts, gerieft right, serrated droite, strié derecha, estriada destra, zigrinato	links left gauche izquierda sinistra

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



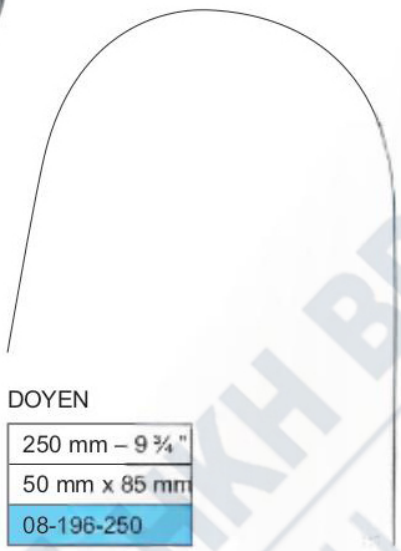
MIDDELDORPF

	45 mm x 45 mm	45 mm x 50 mm	55 mm x 70 mm
255 mm – 10"	08-195-010	08-195-020	08-195-030

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori





DOYEN

250 mm – 9 ¾ "
50 mm x 85 mm
08-196-250



TUFFIER

230 mm – 9 "
64 mm x 60 mm
08-197-230



KOCHER

225 mm – 8 ¾ "
70 mm x 25 mm
08-198-220



KOCHER

	250 mm – 9 ¾ "
80 mm x 45 mm	08-199-042
80 mm x 55 mm	08-199-050
80 mm x 65 mm	08-199-060

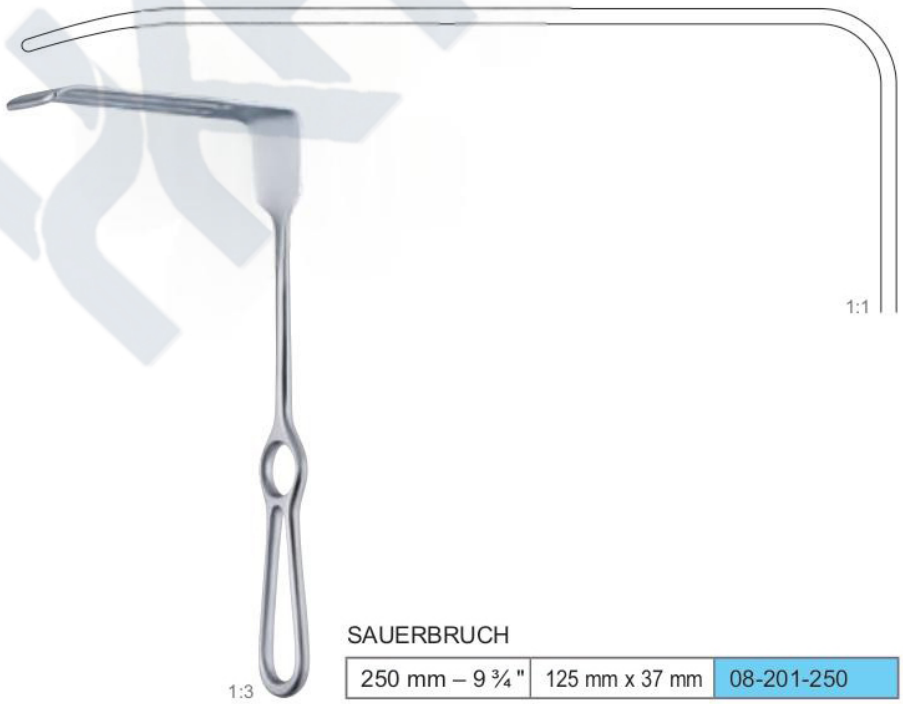
Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



MARTIN

250 mm – 9 ¾ "	105 mm x 27 mm	08-200-250



SAUERBRUCH

250 mm – 9 ¾ "	125 mm x 37 mm	08-201-250

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



HEANEY

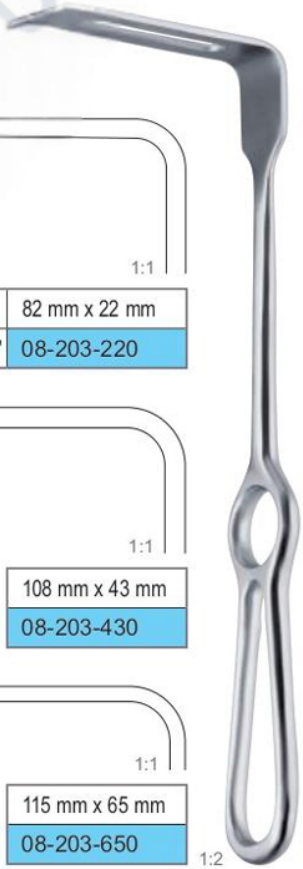




	45 mm x 25 mm	73 mm x 28 mm
270 mm – 10 ¾ "	08-202-450	08-202-730



82 mm x 28 mm
08-202-820



CORYLLOS



	82 mm x 22 mm
240 mm – 9 ½ "	08-203-220



108 mm x 43 mm
08-203-430



115 mm x 65 mm
08-203-650

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori







HEANEY

	45 mm x 25 mm	73 mm x 28 mm
270 mm – 10 ¾ "	08-202-450	08-202-730



82 mm x 28 mm
08-202-820



CORYLLOS

	82 mm x 22 mm
240 mm – 9 ½ "	08-203-220



108 mm x 43 mm
08-203-430



115 mm x 65 mm
08-203-650



Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



BRUNNER

240 mm – 9 ½ "	142 mm x 25 mm	08-205-240

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori

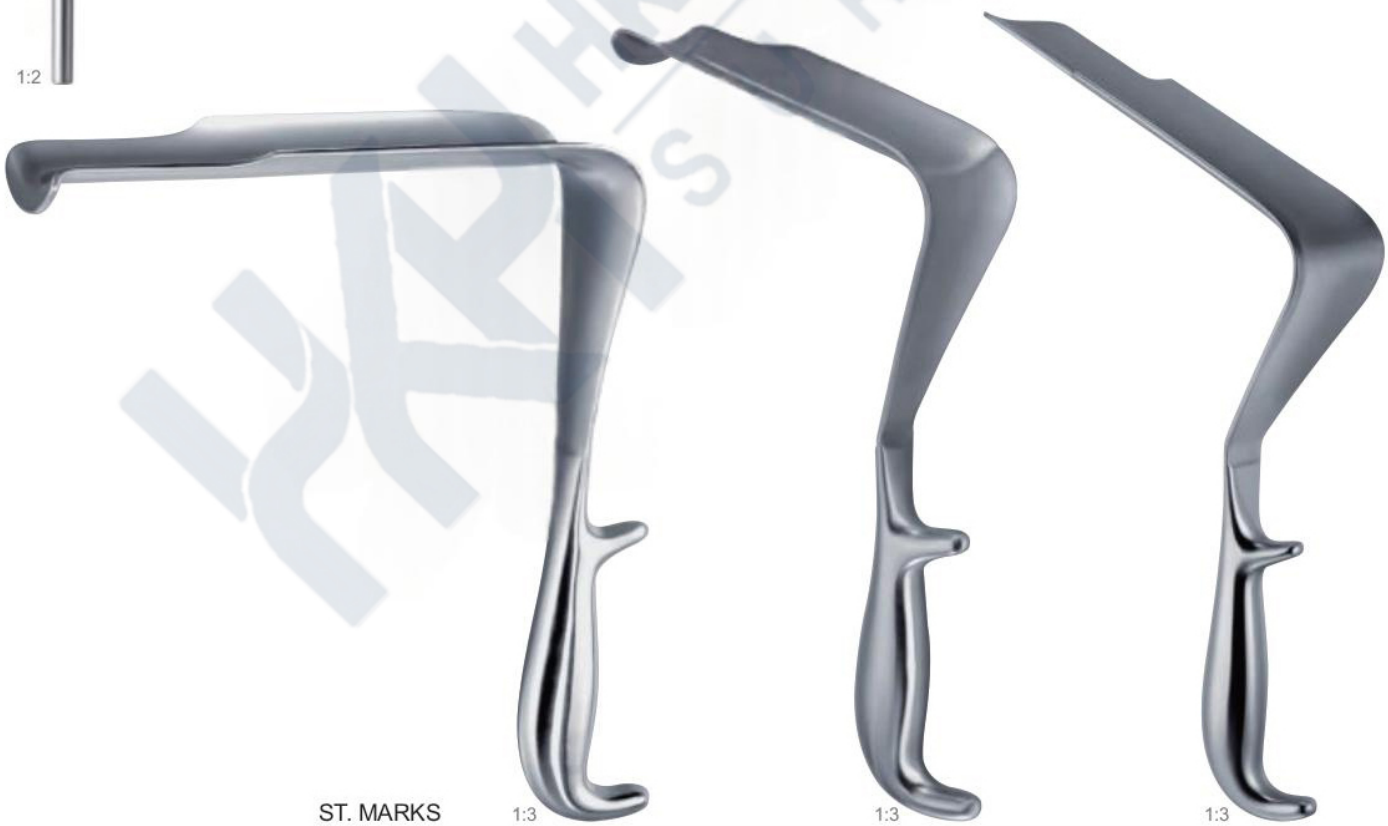


GIL-VERNET



	x = 8 mm	x = 11 mm	x = 15 mm	x = 17 mm	x = 20 mm	x = 23 mm
240 mm – 9 ½ "	08-206-080	08-206-110	08-206-150	08-206-170	08-206-200	08-206-230

biegsam
malleable
malléable
maleable
malleabile



ST. MARKS

290 mm – 11 ½ "	325 mm – 12 ¾ "	330 mm – 13 "
130 mm x 60 mm	180 mm x 60 mm	180 mm x 60 mm
08-207-020	08-207-010	08-207-030

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



CUSHING

200 mm – 8 "
08-208-200

1:2



KOERTE

280 mm – 11 "
120 mm x 47 mm
08-209-280

1:2



MORRIS 1:2

210 mm – 8 ¼ "
50 mm x 55 mm
08-210-500



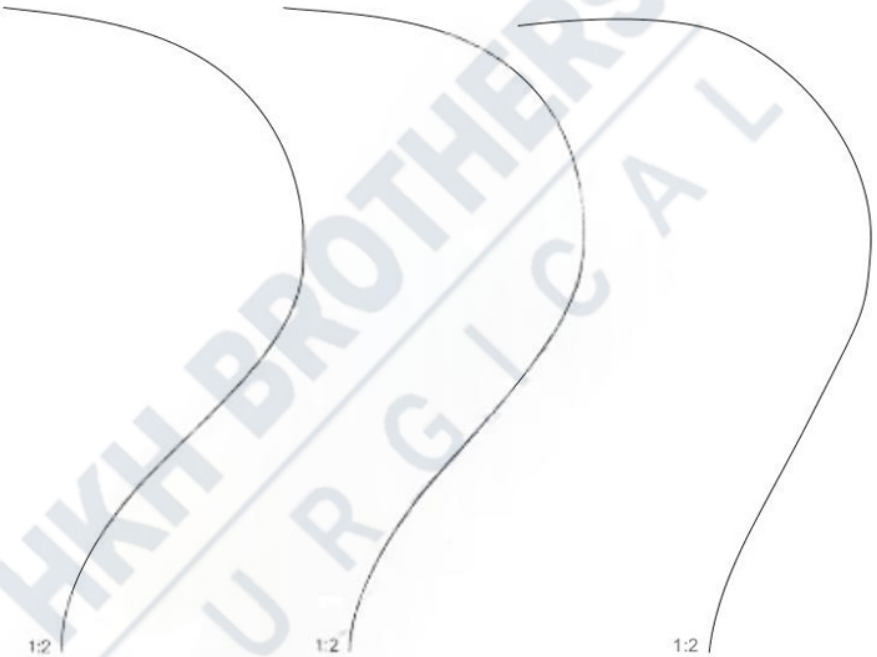
MORRIS 1:2

	38 mm x 51 mm	50 mm x 55 mm	64 mm x 51 mm
245 mm – 9 ¾ "	08-211-380	08-211-510	08-211-640

Wundhaken
Retractors

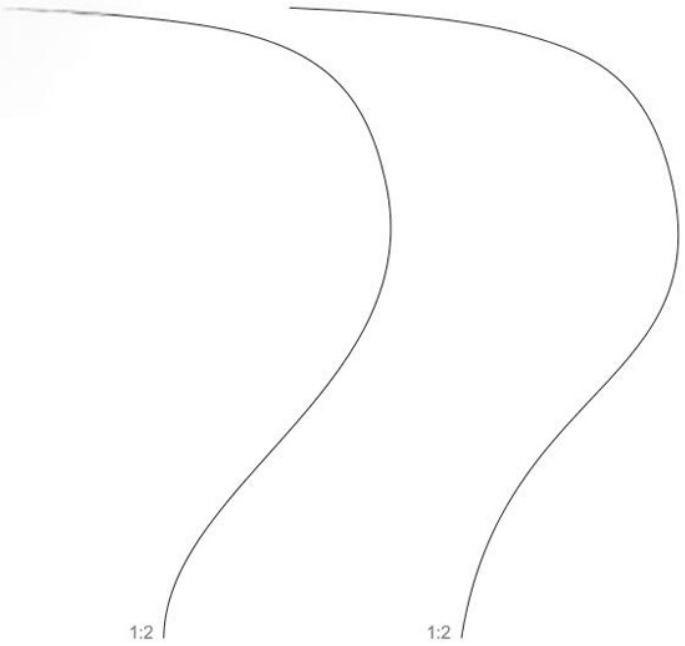
Ecarteurs
Separadores
Divaricatori





DEAVER

	x = 25 mm	x = 38 mm	x = 50 mm
315 mm – 12 ½"	08-212-250	08-212-380	08-212-500



x = 75 mm	x = 100 mm
08-212-750	08-213-100

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



DEAVER 1:2 1:2 1:2

180 mm – 7 "	215 mm – 8 ½ "	230 mm – 9 "
x = 19 mm	x = 22 mm	x = 25 mm
08-215-001	08-215-002	08-215-003

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



DEAVER 1:2 1:2 1:2

300 mm – 12 "	330 mm – 13 "	360 mm – 14 ¼ "
x = 25 mm	x = 25 mm	x = 25 mm
08-215-004	08-215-005	08-215-006

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



DEAVER 1:2 1:2 1:2

300 mm – 12 "	300 mm – 12 "	300 mm – 12 "
x = 38 mm	x = 50 mm	x = 75 mm
08-215-007	08-215-008	08-215-009

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



1:2



1:1 1:1 1:1

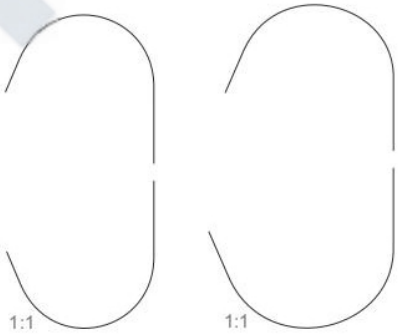
ROUX

	Fig. 1	Fig. 2	Fig. 3
	140 mm – 5 ½ "	150 mm – 6 "	170 mm – 6 ¾ "
	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
	08-216-001	08-216-002	08-216-003
08-216-000	x	x	x

Satz
Set
Jeu
Juego
Serie



1:2



1:1 1:1

PARKER

	Fig. 1	Fig. 2
	135 mm – 5 ¼ "	135 mm – 5 ¼ "
	18 mm x 15 mm	22 mm x 15 mm
08-217-130	x	x

Satz
Set
Jeu
Juego
Serie

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori





PARKER

180 mm – 7 "	Fig. 1	Fig. 2
	26 mm x 25 mm	29 mm x 25 mm
	27 mm x 25 mm	27 mm x 25 mm
08-217-180	x	x

Satz
Set
Jeu
Juego
Serie



MINI-ROUX

145 mm – 5 ¾ "
8 mm x 6 mm
08-218-150



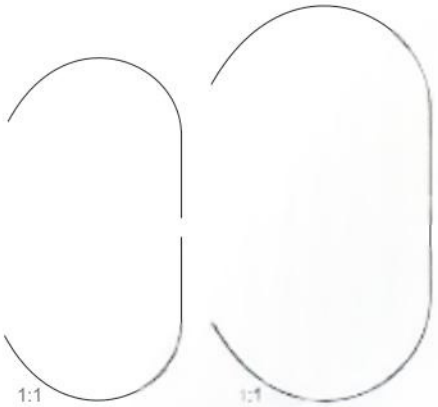
BABY-ROUX

130 mm – 5 "
17 mm x 16 mm
18 mm x 22 mm
08-219-130

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori


1:2


1:1 1:1

PARKER

180 mm – 7"	Fig. 1	Fig. 2
	26 mm x 25 mm	29 mm x 25 mm
	27 mm x 25 mm	27 mm x 25 mm
08-217-180	x	x

Satz
Set
Jeu
Juego
Serie


1:2

1:1

MINI-ROUX

145 mm – 5¾"
8 mm x 6 mm
08-218-150


1:2

1:1

BABY-ROUX

130 mm – 5"
17 mm x 16 mm
18 mm x 22 mm
08-219-130

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



1:2



1:1 1:1

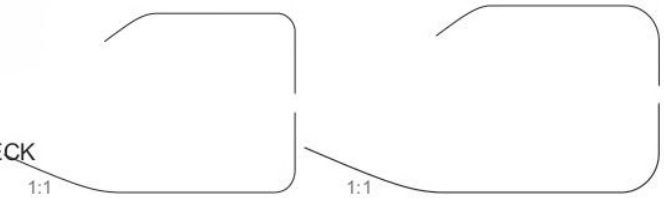
MAYO-COLLIN

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
08-220-150	x	x

Satz
Set
Jeu
Juego
Serie



1:2



1:1 1:1

PARKER-LANGENBECK (US ARMY)

210 mm – 8 ¼ "	Fig. 1	Fig. 2
	21 mm x 24 mm	25 mm x 24 mm
	40 mm x 15 mm	45 mm x 15 mm
08-221-000	x	x

Satz
Set
Jeu
Juego
Serie

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



1:2



1:1



1:1

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
	08-222-010	08-222-020

08-222-200	x	x

Satz
Set
Jeu
Juego
Serie

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



1:2



1:1 1:1

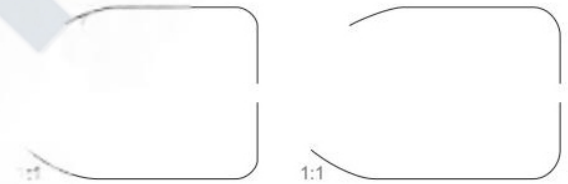
FARABEUF

120 mm – 4 ¾ "	Fig. 1	Fig. 2
	26 mm x 10 mm	30 mm x 10 mm
	30 mm x 12 mm	34 mm x 12 mm
08-223-000	x	x

Satz
Set
Jeu
Juego
Serie



1:2



1:1 1:1

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
08-224-000	x	x

Satz
Set
Jeu
Juego
Serie

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



ALM

70 mm – 2 ¾ "	08-225-070	08-226-070	08-227-070
100 mm – 4 "	08-225-100	08-226-100	08-227-100
	scharf sharp pointu agudo acuto	halbscharf semi sharp semi pointu semi agudo semi acuto	stumpf blunt mousse romo smusso



BOSE 1:2

70 mm – 2 ¾ "	08-232-070



HOLTZHEIMER 2

100 mm – 4 "	08-228-100	08-229-100
	scharf sharp pointu agudo acuto	stumpf blunt mousse romo smusso



JANSEN 1:2

100 mm – 4 "	08-230-100	08-231-100
	scharf sharp pointu agudo acuto	stumpf blunt mousse romo smusso

Wundsperrer
Self-retaining retractors

Ecarteurs autostatiques
Separadores autoestáticos
Divaricatori autostatici



CLOWARD-CONTOUR 1:2

140 mm – 5 ½ "	08-233-140	08-234-140
	3 x 4 scharf sharp pointu agudo acuto	3 x 4 stumpf blunt mousse romo smusso



WEITLANER-WULLSTEIN 1:2

130 m – 5 "	08-235-130	08-236-130
	3 x 3 scharf sharp pointu agudo acuto	3 x 3 stumpf blunt mousse romo smusso



MILLIGAN 1:2

130 mm – 5 "	08-237-130
	3 x 3 stumpf blunt mousse romo smusso

Wundsperrer
Self-retaining retractors

Ecarteurs autostatiques
Separadores autoestáticos
Divaricatori autostatici



BELLUCCI

110 mm – 4 ¼ "	08-238-110	08-239-110
	1 x 2 links, stumpf left, blunt gauche, mousse izquierda, romo sinistra, smusso	1 x 2 rechts, stumpf right, blunt droit, mousse derecha, romo destra, smusso

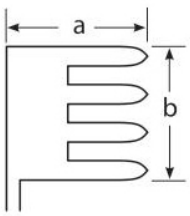


MOLLISON

150 mm – 6 "	08-240-150
	4 x 4 scharf sharp pointu agudo acuto

Wundsperrer
Self-retaining retractors

Ecarteurs autostatiques
Separadores autoestáticos
Divaricatori autostatici





WEITLANER-LOKTITE

105 mm – 4 ¼ "	a = 17 mm – b = 13 mm	08-250-105	08-251-105	08-252-105			
130 mm – 5 "	a = 17 mm – b = 17 mm				08-241-130	08-242-130	08-243-130
165 mm – 6 ½ "	a = 17 mm – b = 17 mm				08-244-165	08-245-165	08-246-165
200 mm – 8 "	a = 20 mm – b = 19 mm				08-247-200	08-248-200	08-249-200
260 mm – 10 ¼ "	a = 26 mm – b = 21 mm				08-253-260	08-254-260	08-255-260
		2 x 3 scharf sharp pointu agudo acuto	2 x 3 halbscharf semi sharp semi pointu semi agudo semi acuto	2 x 3 stumpf blunt mousse romo smusso	3 x 4 scharf sharp pointu agudo acuto	3 x 4 halbscharf semi sharp semi pointu semi agudo semi acuto	3 x 4 stumpf blunt mousse romo smusso

Wundsperrer
Self-retaining retractors

Ecarteurs autostatiques
Separadores autoestáticos
Divaricatori autostatici



1:2

PLESTER

130 mm – 5"	08-256-130	08-257-130
	2 x 2 stumpf blunt mousse romo smusso	2 x 2 scharf sharp pointu agudo acuto





1:2 1:2

PLESTER

110 mm – 4 ¼"	08-258-110	08-259-110
	2 x 1 links, stumpf left, blunt gauche, mousse izquierda, romo sinistra, smusso	2 x 1 rechts, stumpf right, blunt droit, mousse derecha, romo destra, smusso

Wundsperrer
Self-retaining retractors

Ecarteurs autostatiques
Separadores autoestáticos
Divaricatori autostatici



1:2

NORFOLK
AND NORWICH

220 mm – 8 ¾ "	08-260-220

4 x 5
stumpf
blunt
mousse
romo
smusso



1:2

TRAVERS

215 mm – 8 ½ "	08-261-210

4 x 5
stumpf
blunt
mousse
romo
smusso



1:2

ANDERSON-ADSON

195 mm – 7 ¾ "	08-262-190	08-263-200
	4 x 4 scharf sharp pointu agudo acuto	4 x 4 stumpf blunt mousse romo smusso

Wundsperrer
Self-retaining retractors

Ecarteurs autostatiques
Separadores autoestáticos
Divaricatori autostatici





ADSON (CONE)

130 mm – 5 "	a = 17 mm – b = 19 mm	08-264-130	08-265-130
160 mm – 6 ¼ "	a = 17 mm – b = 19 mm	08-264-160	08-265-160
200 mm – 8 "	a = 20 mm – b = 20 mm	08-264-200	08-265-200
260 mm – 10 ¼ "	a = 26 mm – b = 21 mm	08-264-260	08-265-260
		3 x 4 scharf sharp pointu agudo acuto	3 x 4 stumpf blunt mousse romo smusso

BECKMANN-EATON

320 mm – 12 ½ "
08-266-320
7 x 7 scharf sharp pointu agudo acuto

Wundsperrer
Self-retaining retractors

Ecarteurs autostatiques
Separadores autoestáticos
Divaricatori autostatici



BECKMANN

310 mm – 12 ¼"	08-267-310	08-268-310	08-269-310
	4 x 4 scharf sharp pointu agudo acuto	4 x 4 halbscharf semi sharp semi pointu semi agudo semi acuto	4 x 4 stumpf blunt mousse romo smusso



ADSON

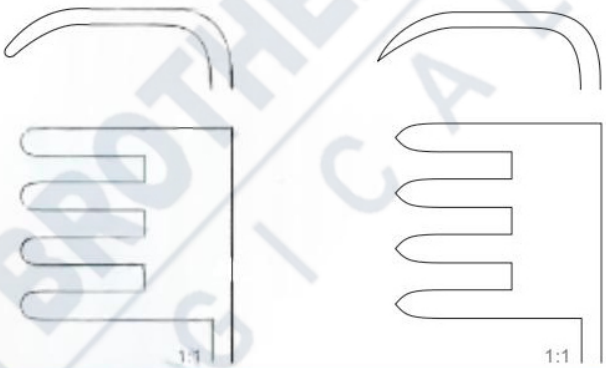
		265 mm – 10 ½"	265 mm – 10 ½"
3 x 4	a = 24 mm – b = 24 mm	08-270-260	08-271-260
6 x 6	a = 40 mm – b = 40 mm	08-270-270	08-271-270
		scharf sharp pointu agudo acuto	stumpf blunt mousse romo smusso

Wundsperrer
Self-retaining retractors

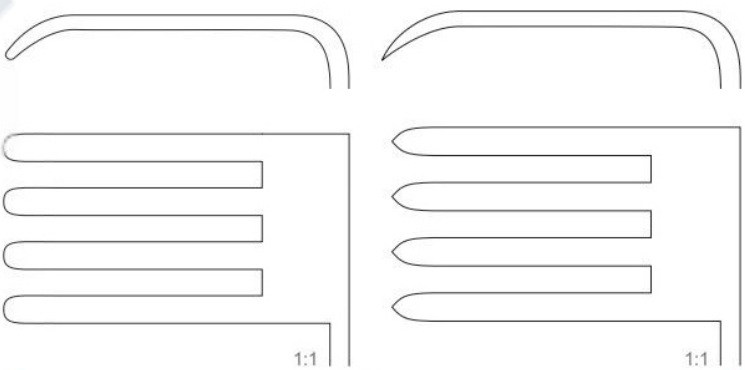
Ecarteurs autostatiques
Separadores autoestáticos
Divaricatori autostatici


1:2

BECKMANN-ADSON


1:1 1:1

310 mm – 12 ¼"	08-272-000	08-272-010
	stumpf blunt mousse romo smusso	scharf sharp pointu agudo acuto


1:1 1:1

08-272-020	08-272-030
stumpf, mit tiefen Blättern blunt, with deep blades mousse, avec lames profondes romo, con palas profundas smusso, con valve profonde	scharf, mit tiefen Blättern sharp, with deep blades pointu, avec lames profondes agudo, con palas profundas acuto, con valve profonde

Wundsperrer
Self-retaining retractors

Ecarteurs autostatiques
Separadores autoestáticos
Divaricatori autostatici



RIGBY 1:2

180 mm – 7 "	08-273-180



GELPI-LOKTITE 1:2

90 mm – 3 ½ "	08-274-090	
110 mm – 4 ¼ "	08-274-110	
140 mm – 5½ "	08-275-140	
160 mm – 6 "	08-275-160	
180 mm – 7 "	08-275-180	08-276-180



1:2

MARKHAM-
MEYERDING

180 mm – 7 "	08-277-180	08-278-180
	rechts right droit derecha destra	links left gauche izquierda sinistra

Wundsperrer
Self-retaining retractors

Ecarteurs autostatiques
Separadores autoestáticos
Divaricatori autostatici



1:2

HENLEY

165 mm – 6 ½ "	08-279-000	08-280-000
	3 x 4 scharf sharp pointu agudo acuto	3 x 4 stumpf blunt mousse romo smusso

komplett mit 3 Mittelvalven
complete with 3 center blades
complet avec 3 valves centrales
completa con 3 valvas centrales
completo con 3 valve centrali



19 mm x 16 mm	25 mm x 16 mm	32 mm x 16 mm
08-280-190	08-280-250	08-280-320

Mittelvalven
Center blades
Valves centrales
Valvas centrales
Valve centrali

bauchdeckenhalter
Abdominal retractors
Ecarteurs abdominaux
Separadores abdominales
Divaricatori addominali



BABY-COLLIN

180 mm – 7 "		
x = 80 mm		
08-281-000	40 mm x 18 mm	40 mm x 27 mm

komplett mit 2 Paar Valven
complete with 2 pairs of blades
complet avec 2 paires de valves
completo con 2 pares de valvas
completo con 2 paia di valve



COLLIN 1:2

220 mm – 8 ¾ "	x = 100 mm	08-282-220



COLLIN

225 mm – 8 ¾ "		
x = 100 mm		
08-283-000	a = 38 mm – b = 55 mm	a = 38 mm – b = 55 mm
08-284-000	a = 38 mm – b = 80 mm	a = 50 mm – b = 75 mm

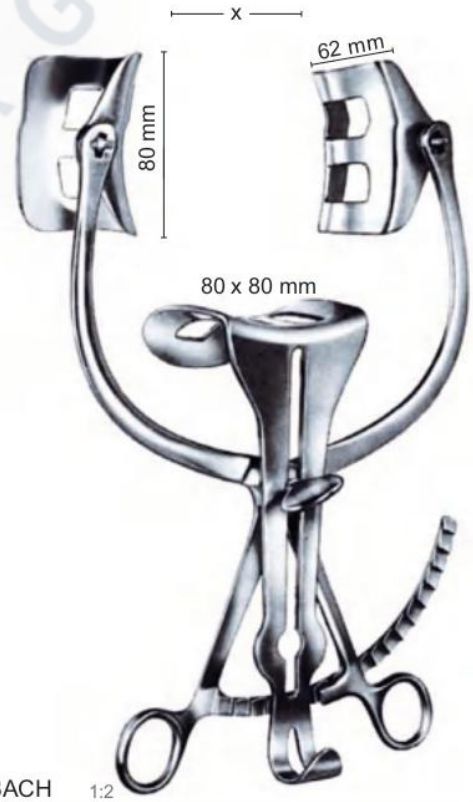
komplett mit	Seitenvalven	Mittelvalve
complete with	Lateral blades	Center blade
complet avec	Valves latérales	Valve centrale
completo con	Valvas laterales	Valva central
completo con	Valve laterali	Valva centrale

bauchdeckenhalter
Abdominal retractors
Ecarteurs abdominaux
Separadores abdominales
Divaricatori addominali



COLLIN 1:2

260 mm – 10 ½"		
x = 160 mm		
08-285-000	60 mm x 80 mm	60 mm x 75 mm
komplett mit	Seitenvalven	Mittelvalve
complete with	Lateral blades	Center blade
complet avec	Valves latérales	Valve centrale
completo con	Valvas laterales	Valva central
completo con	Valve laterali	Valva centrale



HOLZBACH 1:2

260 mm – 10 ¼"		
x = 100 mm		
08-286-000	62 mm x 80 mm	80 mm x 80 mm
komplett mit	Seitenvalven	Mittelvalve
complete with	Lateral blades	Center blade
complet avec	Valves latérales	Valve centrale
completo con	Valvas laterales	Valva central
completo con	Valve laterali	Valva centrale

bauchdeckenhalter
Abdominal retractors

Ecarteurs abdominaux
Separadores abdominales
Divaricatori addominali



GOSSET 1:2

125 mm – 5 "	x = 100 mm	08-287-000



GOSSET 1:2

185 mm – 7 ¼ "	x = 140 mm	08-288-000

bauchdeckenhalter
Abdominal retractors
Ecarteurs abdominaux
Separadores abdominales
Divaricatori addominali



GOSSET 1:3

x = 160 mm		
08-289-160	35 mm x 63 mm	65 mm x 70 mm
komplett mit	Seitenvalven	Mittelvalve
complete with	Lateral blades	Center blade
complet avec	Valves latérales	Valve centrale
completo con	Valvas laterales	Valva central
completo con	Valve laterali	Valva centrale



BALFOUR 1:3

x = 200 mm		
08-290-000	35 mm x 100 mm	70 mm x 100 mm
komplett mit	Seitenvalven	Mittelvalve
complete with	Lateral blades	Center blade
complet avec	Valves latérales	Valve centrale
completo con	Valvas laterales	Valva central
completo con	Valve laterali	Valva centrale

bauchdeckenhalter
Abdominal retractors

Ecarteurs abdominaux
Separadores abdominales
Divaricatori addominali



BALFOUR

x = 180 mm		
08-291-000	35 mm x 70 mm	45 mm x 80 mm
komplett mit complete with complet avec completo con completo con	Seitenvalven Lateral blades Valves latérales Valvas laterales Valve laterali	Mittelvalve Center blade Valve centrale Valva central Valva centrale

x = 250 mm		
08-292-250	35 mm x 100 mm	70 mm x 85 mm
komplett mit complete with complet avec completo con completo con	Seitenvalven Lateral blades Valves latérales Valvas laterales Valve laterali	Mittelvalve Center blade Valve centrale Valva central Valva centrale

45 mm x 80 mm	08-293-450
70 mm x 85 mm	08-293-700
80 mm x 90 mm	08-293-800

Mittelvalven, allein
Center blades, only
Valves centrales, seul
Valvas centrales, sola
Valve centrali, solo



BALFOUR-BABY

x = 90 mm		
08-294-000	27 mm x 27 mm	20 mm x 24 mm
komplett mit complete with complet avec completo con completo con	Seitenvalven Lateral blades Valves latérales Valvas laterales Valve laterali	Mittelvalve Center blade Valve centrale Valva central Valva centrale

bauchdeckenhalter
Abdominal retractors

Ecarteurs abdominaux
Separadores abdominales
Divaricatori addominali



RICARD 1:3

08-295-280	60 mm x 80 mm	55 mm x 70 mm
komplett mit	Seitenvalven	Mittelvalve
complete with	Lateral blades	Center blade
complet avec	Valves latérales	Valve centrale
completo con	Valvas laterales	Valva central
completo con	Valve laterali	Valva centrale

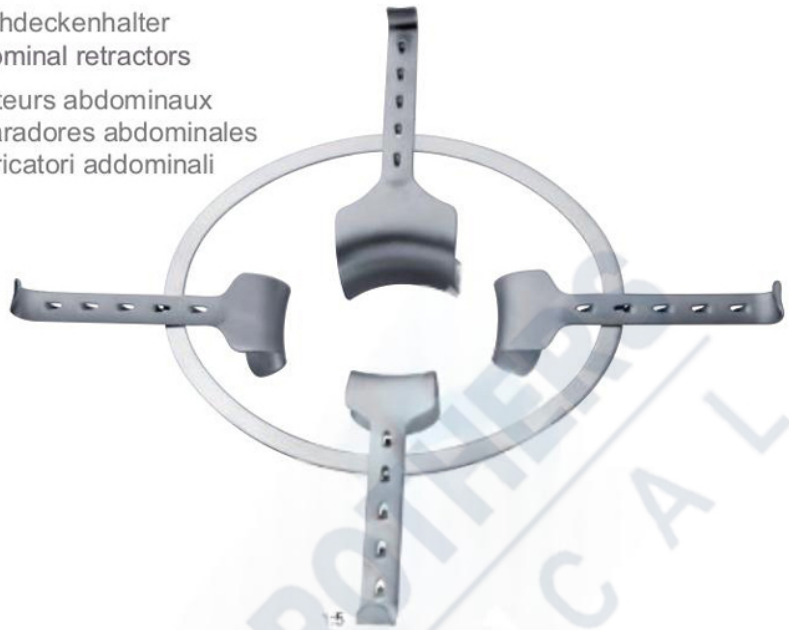
08-295-300	70 mm x 85 mm	80 mm x 90 mm
komplett mit	Seitenvalven	Mittelvalve
complete with	Lateral blades	Center blade
complet avec	Valves latérales	Valve centrale
completo con	Valvas laterales	Valva central
completo con	Valve laterali	Valva centrale



O'SULLIVAN-
O'CONNOR 1:3

08-296-000	45 mm x 90 mm	70 mm x 100 mm
komplett mit	Seitenvalven	Mittelvalve
complete with	Lateral blades	Center blade
complet avec	Valves latérales	Valve centrale
completo con	Valvas laterales	Valva central
completo con	Valve laterali	Valva centrale

bauchdeckenhalter
Abdominal retractors
Ecarteurs abdominaux
Separadores abdominales
Divaricatori addominali



1:5

KIRSCHNER, OVAL

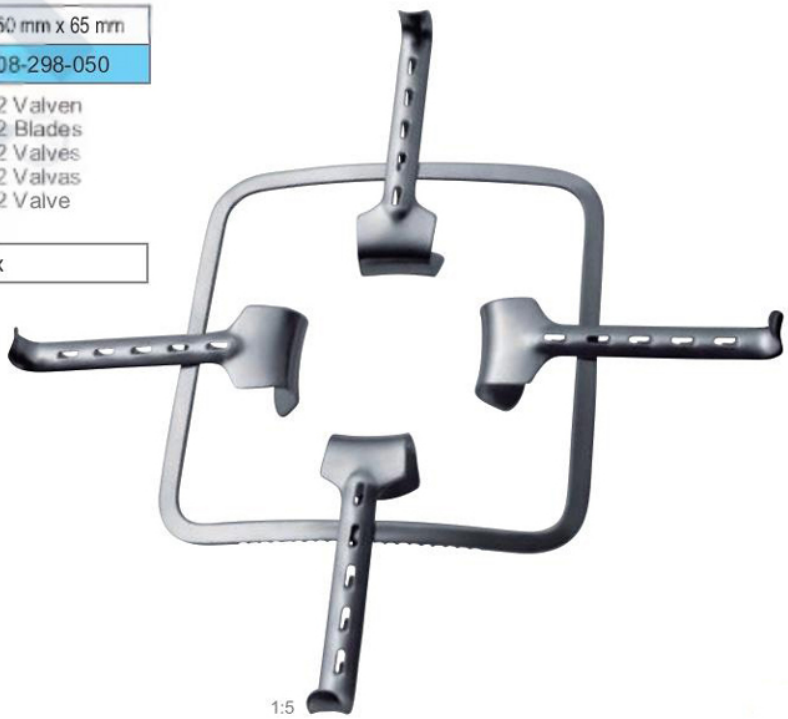
240 mm x 300 mm	50 mm x 65 mm	80 mm x 90 mm	50 mm x 98 mm	35 mm x 105 mm
08-297-300	08-298-050	08-299-080	08-299-098	08-299-105
1 Rahmen 1 Frame 1 Cadre 1 Cuadro 1 Quadro	3 Valven 3 Blades 3 Valves 3 Valvas 3 Valve	1 Valve 1 Blade 1 Valve 1 Valva 1 Valva	1 Valve 1 Blade 1 Valve 1 Valva 1 Valva	1 Valve 1 Blade 1 Valve 1 Valva 1 Valva
08-300-000	x	x	x	x	x

Satz
Set
Jeu
Juego
Serie

KIRSCHNER

240 mm x 240 mm	40 mm x 55 mm	50 mm x 65 mm
08-301-000	08-298-040	08-298-050
1 Rahmen, fest 1 Frame, rigid 1 Cadre, rigide 1 Cuadro, rigido 1 Quadro, rigido	2 Valven 2 Blades 2 Valves 2 Valvas 2 Valve	2 Valven 2 Blades 2 Valves 2 Valvas 2 Valve
08-302-000	x	x	x

Satz
Set
Jeu
Juego
Serie



1:5

bauchdeckenhalter
Abdominal retractors
Ecarteurs abdominaux
Separadores abdominales
Divaricatori addominali



1:4

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
08-303-300	08-305-380	08-305-450	08-298-050	08-306-600
1 Rahmen, zusammenlegbar 1 Frame, foldable 1 Cadre pliant 1 Cuadro plegable 1 Quadro piegabile	2 Valven 2 Blades 2 Valves 2 Valvas 2 Valve	2 Valven 2 Blades 2 Valves 2 Valvas 2 Valve	2 Valven 2 Blades 2 Valves 2 Valvas 2 Valve	2 Valven 2 Blades 2 Valves 2 Valvas 2 Valve
08-303-000	x	x		x	
08-307-000	x	x	x	x	x

Satz
Set
Jeu
Juego
Serie



1:4

bauchdeckenhalter
Abdominal retractors

Ecarteurs abdominaux
Separadores abdominales
Divaricatori addominali









40 mm x 60 mm	45 mm x 80 mm	40 mm x 55 mm	50 mm x 65 mm
08-305-380	08-305-450	08-298-040	08-298-050









60 mm x 85 mm	80 mm x 90 mm	50 mm x 98 mm	35 mm x 105 mm
08-306-600	08-299-080	08-299-098	08-299-105

bauchspatel
Abdominal spatula
Spatula abdominales
Espátulas abdominales
Spatole addominali



RIBBON

	19 mm	25 mm	30 mm	40 mm	50 mm
330 mm – 13 "	08-308-190	08-308-250	08-308-320	08-308-400	08-308-500

biegsam
malleable
malléable
maleable
flessibile



RIBBON

	6 mm	9 mm	12 mm	17 mm	20 mm
200 mm – 8 "	08-309-060	08-309-090	08-309-120	08-309-170	08-309-200

weich
soft
souple
flexible
morbido

	25 mm
250 mm – 9¾ "	08-309-250

weich
soft
souple
flexible
morbido

	6,5 mm	9,5 mm	13 mm	16 mm	19 mm	25 mm
200 mm – 8 "	08-310-060	08-310-090	08-310-130	08-310-160	08-310-190	08-310-250

biegsam, sehr weich
malleable, very soft
malléable, trés souple
maleable, muy flexible
flessibile, molto morbido

bauchspatel
Abdominal spatula

Spatula abdominales
Espátulas abdominales
Spatole addominali



HABERER

200 mm – 8 "	280 mm – 11 "	300 mm – 12 "
17 mm x 25 mm	25 mm x 30 mm	37 mm x 45 mm
08-311-170	08-311-250	08-311-370

biegsam
malleable
malléable
maleable
flessibile



REVERDIN 1:2

280 mm – 11 "	46 mm x 60 mm	08-312-280

Wundspreizer
Retractors

Ecarteurs
Separadores
Divaricatori



1:2



1:2 1:2

O'SULLIVAN-O'CONNOR

Fig. 1	Fig. 2	Fig. 3	Set
45 mm x 17 mm	90 mm x 37 mm	90 mm x 45 mm	Fig. 1, 2, 3
08-313-001	08-313-002	08-313-003	08-314-000

komplett
complete
complet
completo
completo



FRIEDMANN 1:2

100 mm – 4 "	08-315-100

laminektomiesperrer
Laminectomy retractors

Ecarteurs pour laminectomie
Separadores para laminectomía
Divaricatori per laminectomia





CLOWARD

160 mm – 6 ¼ "	250 mm – 9 ¾ "
08-316-000	08-317-000
komplett mit je 2 Valven Fig. 1 - Fig. 5 complete with 2 blades ea. Fig. 1 - Fig. 5 complet avec 2 valves chacune Fig. 1 - Fig. 5 completo con 2 valvas de cada Fig. 1 - Fig. 5 completo con2 valve Fig. 1 - Fig. 5	komplett mit je 2 Valven Fig. 1 - Fig. 5 complete with 2 blades ea. Fig. 1 - Fig. 5 complet avec 2 valves chacune Fig. 1 - Fig. 5 completo con 2 valvas de cada Fig. 1 - Fig. 5 completo con2 valve Fig. 1 - Fig. 5
08-316-010	08-317-010
Sperrer ohne Valven Retractor without blades Ecarteur sans valves Separador sin valvas Divaricatore senza valve	Sperrer ohne Valven Retractor without blades Ecarteur sans valves Separador sin valvas Divaricatore senza valve



x = 40 mm	08-316-400
x = 45 mm	08-316-450
x = 50 mm	08-316-500
x = 55 mm	08-316-550
x = 60 mm	08-316-600

stumpf
blunt
mousse
romo
smusso



x = 40 mm	08-317-400
x = 45 mm	08-317-450
x = 50 mm	08-317-500
x = 55 mm	08-317-550
x = 60 mm	08-317-600

gezahnt
toothed
dentelée
dentada
dentata

laminektomiesperrer
Laminectomy retractors

Ecarteurs pour laminectomie
Separadores para laminectomía
Divaricatori per laminectomia



INGE

165 mm – 6 ½ "	270 mm – 10 ¾ "
08-318-170	08-318-270



CLOWARD-
VERTREBRA

160 mm – 6 ¼ "	08-319-160

laminektomiesperrer
Laminectomy retractors
Ecarteurs pour laminectomie
Separadores para laminectomía
Divaricatori per laminectomia



INGE 1:3 1:3

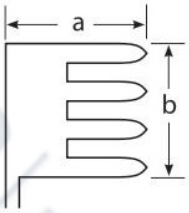
165 mm – 6 ½ "	270 mm – 10 ¾ "
08-318-170	08-318-270



CLOWARD-
VERTREBRA 1:2

160 mm – 6 ¼ "	08-319-160

laminektomiesperrer
Laminectomy retractors
Ecarteurs pour laminectomie
Separadores para laminectomía
Divaricatori per laminectomia





SCOVILLE

50 mm – 2 "	08-321-010	08-321-060
70 mm – 2 ¾ "	08-321-020	08-321-070
	stumpf blunt mousse romo smusso	spitz sharp pointu aguda acuta



TAYLOR

a = 48 mm – b = 50 mm – 2" x 2 "	08-321-410
a = 63 mm – b = 50 mm – 2½ " x 2 "	08-321-420
a = 64 mm – b = 64 mm – 3¼ " x 2 ¼ "	08-321-430
a = 80 mm – b = 57 mm – 3" x 2 "	08-321-440



SCOVILLE

a = 40 mm – b = 37 mm – 1½ " x 1 ½ "	08-321-460
a = 65 mm – b = 44 mm – 2½ " x 1 ¾ "	08-321-470

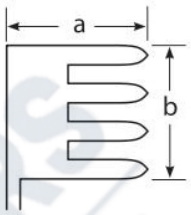


TAYLOR

a = 75 mm – b = 32 mm – 3" x 1 ¼ "	08-321-532
a = 100 mm – b = 42 mm – 4" x 1 "	08-321-542

laminektomiesperrer
Laminectomy retractors

Ecarteurs pour laminectomie
Separadores para laminectomía
Divaricatori per laminectomia





MEYERDING

a = 57 mm – b = 25 mm – 2¼ " x 1	08-321-557
a = 76 mm – b = 25 mm – 3" x 1 "	08-321-576
a = 88 mm – b = 51 mm – 3½ " x 2	08-321-588



SCOVILLE

a = 64 mm – b = 25 mm – 2½ " x 1 "	08-321-110
a = 64 mm – b = 50 mm – 2½ " x 2 "	08-321-120
a = 88 mm – b = 25 mm – 3½ " x 1 "	08-321-130



EPSTEIN 1:2

a = 56 mm – b = 25 mm – 2¼ " x 1	08-321-656



HIBBS

a = 50 mm – b = 20 mm – 2" x ¾ "	08-322-001
a = 50 mm – b = 25 mm – 2" x 1 "	08-322-002
a = 50 mm – b = 50 mm – 2" x 2 "	08-322-003
a = 63 mm – b = 25 mm – 2½ " x 1 "	08-322-004
a = 63 mm – b = 37 mm – 2½ " x 1 ½ "	08-322-005
a = 76 mm – b = 25 mm – 3" x 1 "	08-322-006
a = 76 mm – b = 38 mm – 3" x 1 ½ "	08-322-007
a = 76 mm – b = 50 mm – 3" x 2 "	08-322-008
a = 76 mm – b = 63 mm – 3" x 2 ½ "	08-322-009
a = 90 mm – b = 25 mm – 3½ " x 1 "	08-322-010
a = 90 mm – b = 37 mm – 3½ " x 1 ½ "	08-322-011
a = 102 mm – b = 25 mm – 4" x 1 "	08-322-012
a = 102 mm – b = 50 mm – 4" x 2 "	08-322-013

laminektomiesperrer
Laminectomy retractors

Ecarteurs pour laminectomie
Separadores para laminectomía
Divaricatori per laminectomia



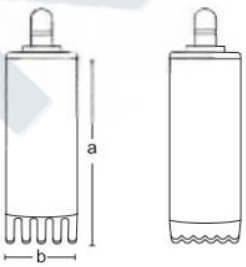
CASPAR 1:2



1:2

08-323-000	318-721-000
komplett mit 5 medial Valven 08-324-400 – 08-324-600 und mit 5 lateral Valven 08-325-400 – 08-325-600 complete with 5 medial blades 08-324-400 – 08-324-600 and with 5 lateral blades 08-325-400 – 08-325-600 complet avec 5 valves médianes 08-324-400 – 08-324-600 et avec 5 valves latérales 08-325-400 – 08-325-600 completo con 5 valvas mediales 08-324-400 – 08-324-600 y con 5 valvas laterales 08-325-400 – 08-325-600 completo con 5 valve mediali 08-324-400 – 08-324-600 e con 5 valve laterali 08-325-400 – 08-325-600	komplett mit 5 Valven 08-326-450 – 08-326-650 complete with 5 blades 08-326-450 – 08-326-650 complet avec 5 valves 08-326-450 – 08-326-650 completo con 5 valvas 08-326-450 – 08-326-650 completo con 5 valve 08-326-450 – 08-326-650

08-323-120	318-721-110
Sperrer ohne Valven Retractor without blades Ecarteur sans valves Separador sin valvas Divaricatore senza valve	Sperrer ohne Valven Retractor without blades Ecarteur sans valves Separador sin valvas Divaricatore senza valve





CASPAR

	medial	lateral
a = 40 mm – b = 23 mm	08-324-400	08-325-400
a = 45 mm – b = 23 mm	08-324-450	08-325-450
a = 50 mm – b = 23 mm	08-324-500	08-325-500
a = 55 mm – b = 23 mm	08-324-550	08-325-550
a = 60 mm – b = 23 mm	08-324-600	08-325-600

CASPAR

a = 45 mm – b = 23 mm	08-326-450
a = 50 mm – b = 23 mm	08-326-500
a = 55 mm – b = 23 mm	08-326-550
a = 60 mm – b = 23 mm	08-326-600
a = 65 mm – b = 23 mm	08-326-650

stumpf
blunt
mousse
romo

laminektomiesperrer
Laminectomy retractors

Ecarteurs pour laminectomie
Separadores para laminectomía
Divaricatori per laminectomia



CASPAR

08-327-001

komplett mit 5 Valven 08-326-450 - 08-326-650
complete with 5 blades 08-326-450 – 08-326-650
complet avec 5 valves 08-326-450 – 08-326-650
completo con 5 valvas 08-326-450 – 08-326-650
completo con 5 valve 08-326-450 – 08-326-650

08-327-002

Sperrer ohne Valven
Retractor without blades
Ecarteur sans valves
Separador sin valvas
Divaricatore senza valve



08-327-012

Schlüssel
Key
Clé
Llave
Chiave

laminektomiesperrer
Laminectomy retractors

Ecarteurs pour laminectomie
Separadores para laminectomía
Divaricatori per laminectomia



CASPAR 1:1

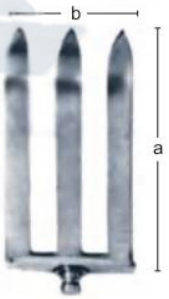


1:1

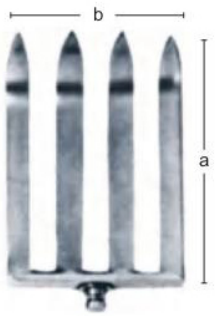
38 mm	58 mm
318-727-500	318-727-700



a = 35 mm – b = 22 mm	08-328-350
a = 40 mm – b = 22 mm	08-328-400
a = 45 mm – b = 22 mm	08-328-450
a = 50 mm – b = 22 mm	08-328-500
a = 55 mm – b = 22 mm	08-328-550
a = 60 mm – b = 22 mm	08-328-600
a = 65 mm – b = 22 mm	08-328-650
a = 70 mm – b = 22 mm	08-328-700



a = 35 mm – b = 37 mm	08-327-350
a = 40 mm – b = 37 mm	08-327-400
a = 45 mm – b = 37 mm	08-327-450
a = 50 mm – b = 37 mm	08-327-500
a = 55 mm – b = 37 mm	08-327-550
a = 60 mm – b = 37 mm	08-327-600
a = 65 mm – b = 37 mm	08-327-650
a = 70 mm – b = 37 mm	08-327-700



a = 35 mm – b = 52 mm	08-329-350
a = 40 mm – b = 52 mm	08-329-400
a = 45 mm – b = 52 mm	08-329-450
a = 50 mm – b = 52 mm	08-329-500
a = 55 mm – b = 52 mm	08-329-550
a = 60 mm – b = 52 mm	08-329-600
a = 65 mm – b = 52 mm	08-329-650
a = 70 mm – b = 52 mm	08-329-700

Wundspreizer zur mikrodiskektomie
Retractors for Micro-Lumbar Discectomy
Retracteurs pour la micro discectomie lumbaire
Retractor para la micro discectomía lumbar
Divaricatore per la micro dissezione lombare



CASPAR 1:2

a = 40 mm	08-330-400
a = 45 mm	08-330-450
a = 50 mm	08-330-500
a = 55 mm	08-330-550
a = 60 mm	08-330-600
a = 65 mm	08-330-650
a = 75 mm	08-330-750
a = 85 mm	08-330-850



1:2

CASPAR

08-331-010



CASPAR

a = 35 mm	08-331-350	
a = 40 mm	08-331-400	08-332-400
a = 45 mm	08-331-450	08-332-450
a = 50 mm	08-331-500	08-332-500
a = 55 mm	08-331-550	08-332-550
a = 60 mm	08-331-600	08-332-600
a = 65 mm	08-331-650	08-332-650
a = 70 mm		08-332-700
a = 75 mm	08-331-750	
a = 85 mm	08-331-850	

hypophysenspekulum
Speculum for hypophysectomy
Spéculum pour hypophysectomie
Espéculo para hipofisectomía
Specolo per ipofisectomia



x = 70 mm	08-333-700
x = 90 mm	08-333-900
x = 110 mm	08-334-100

Spekulum für trans-sphenoidale Hypophysectomie
Speculum for trans-sphenoidal hypophysectomy
Speculum pour hypophysectomie trans-sphenoidable
Espéculo para hipofisectomía transfenoidal
Speculo per ipofisectomia trans-sfenoidale