

08

Wundhaken

Retractors

Ecarteurs

Separadores

Divaricatori



Wundhaken

Retractors

Nasenhäkchen

Nasal hooks

Crochets nasales
Ganchitos nasales
Uncini nasali



KILNER 1:2
 150 mm – 6"
 23-421-150



JOSEPH 1:2
 150 mm – 6"
 23-565-150



LANGE 1:2
 220 mm – 8¾"
 436-688-220



COTTLE 1:2
 160 mm – 6¼"
 436-682-160



FOMON 1:2
 170 mm – 6¾"
 345-553-170



COTTLE 1:2
 150 mm – 6"



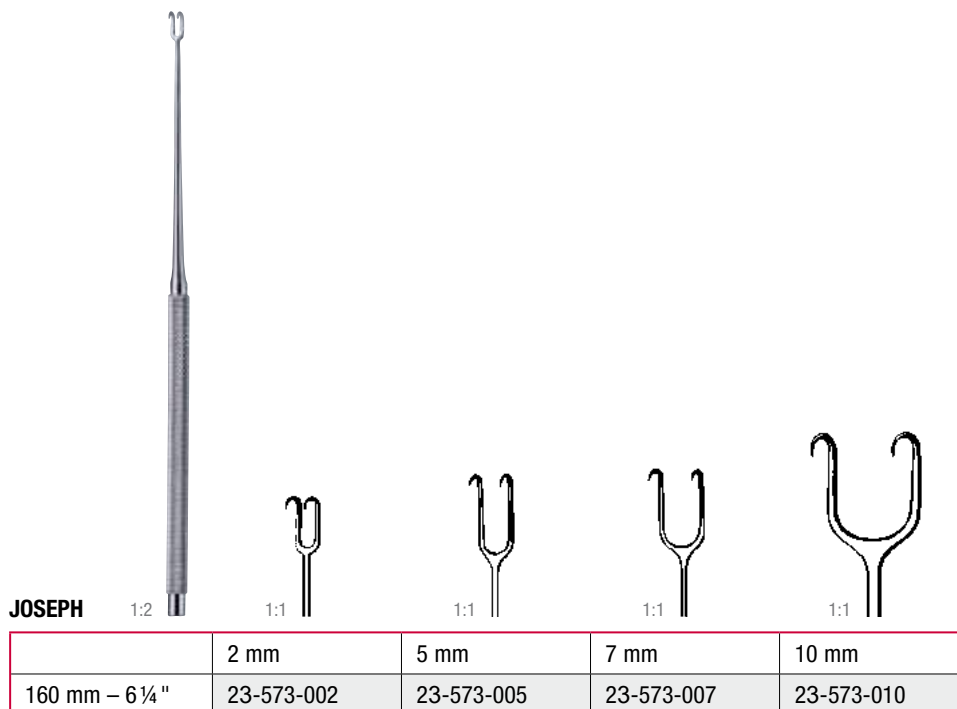
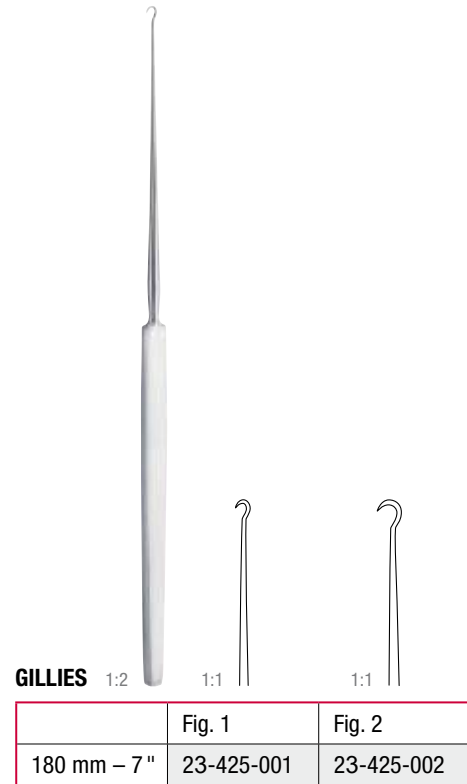
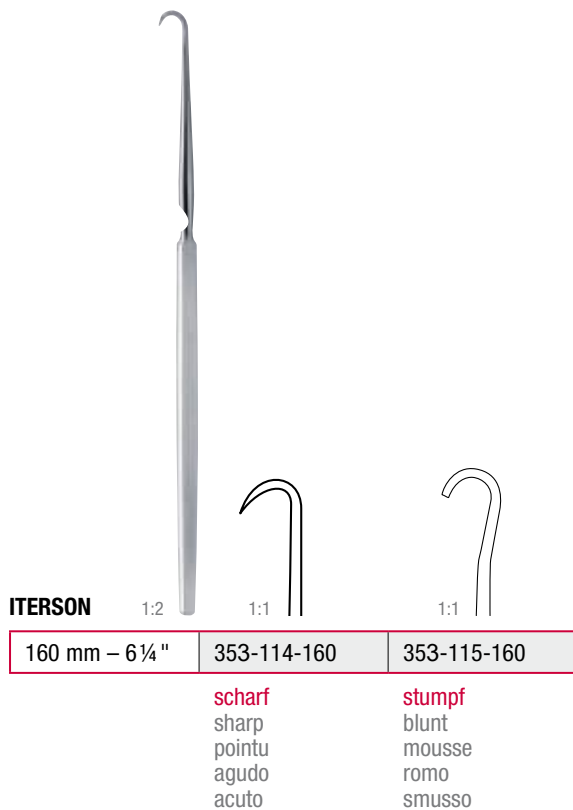
23-545-001



23-545-002



23-545-003

Nasenhäkchen
Nasal hooks
Crochets nasales
Ganchitos nasales
Uncini nasali


Wundhaken Retractors

Nasenhäkchen Nasal hooks

Crochets nasales
Ganchitos nasales
Uncini nasali



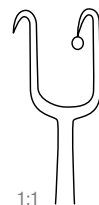
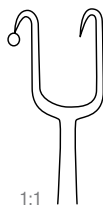
COTTLE-NEIVERT 1:2
200 mm – 8" 345-555-200



FOMON 1:2
160 mm – 6¼" 345-552-160



COTTLE 1:2
150 mm – 6" 345-552-140 436-705-010 436-705-020



NEIVERT 1:2
160 mm – 6¼" 436-708-160

Nasen- und Trachealhäkchen
Nose and trachea hooks
Ecarteurs nasales et tracheales
Separadores traqueales y nasales
Uncini tracheali e nasali

AUFRICHT

1:2

160 mm – 6¼"	160 mm – 6¼"
23-549-160	23-551-160

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


KILNER

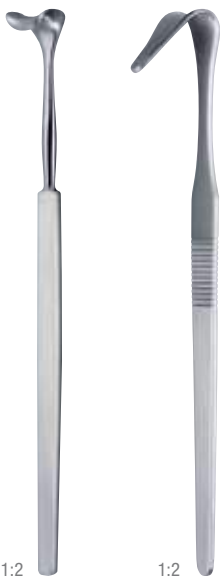
1:2

100 mm – 4"	436-694-100
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CONVERSE

1:2

120 mm – 4¾"	436-696-120
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COTTLE

1:2

1:2

150 mm – 6"	436-709-150	436-710-150
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JACKSON

1:2

150 mm – 6"	23-641-150
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LUKENS

1:2

170 mm – 6¾"	426-147-170
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stumpf
 blunt
 mousse
 romo
 smusso

Wundhaken

Retractors

Trachealhäkchen

Trachea hooks

Ecarteurs tracheales
Separadores traqueales
Uncini tracheali



JACKSON 1:2

170 mm – 6 $\frac{2}{3}$ "	23-647-170
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JACKSON 1:2

180 mm – 7"	426-153-180	426-155-180
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stumpf
 blunt
 mousse
 romo
 smusso

scharf
 sharp
 pointu
 agudo
 acuto

Wundhaken
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ROSE

1:2

130 mm – 5"

353-126-130



LUER

1:2

110 mm – 4 ¼"

317-124-110



SCHOENBORN

1:2

210 mm – 8 ¼"

353-507-210

Wundhaken Retractors

Wundhaken
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Divaricatori



EMMET



	Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5
220 mm – 8 3/4"	23-821-001	23-821-002	23-821-003	23-821-004	23-821-005

1:2



160 mm – 6 1/4"	23-021-001	23-021-002	23-021-003	23-021-004
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scharf
sharp
pointu
agudo
acuto



160 mm – 6 1/4"	23-023-001	23-023-002	23-023-003	23-023-004
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stumpf
blunt
mousse
romo
smusso

Wundhaken
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160 mm – 6 ¼"	23-031-002	23-031-003	23-031-004
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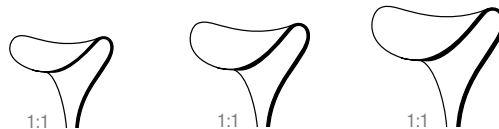
flexibel, scharf
 flexible, sharp
 flexible, pointu
 flexible, agudo
 flessibile, acuto


160 mm – 6 ¼"	23-033-002	23-033-003	23-033-004
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flexibel, stumpf
 flexible, blunt
 flexible, mousse
 flexible, romo
 flessibile, smusso

DESMARRES


	x = 8 mm	x = 10 mm	x = 12 mm
160 mm – 6 ¼"	317-226-080	317-226-100	317-226-120



	x = 14 mm	x = 16 mm	x = 18 mm
160 mm – 6 ¼"	317-226-140	317-226-160	317-226-180


KNAPP (ROLLET)

160 mm – 6 ¼"	433-718-130	433-719-130	433-720-130
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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

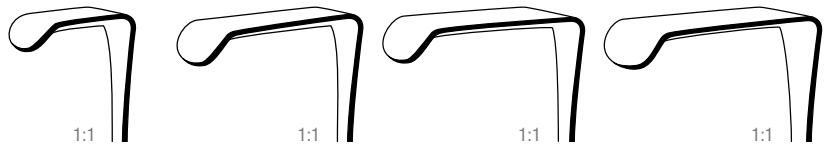
Wundhaken Retractors

Wundhaken
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1:2

MINI-LANGENBECK

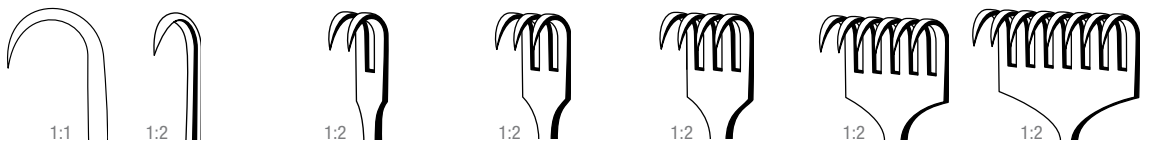


	10 mm x 6 mm	17 mm x 5 mm	20 mm x 6 mm	22 mm x 8 mm
160 mm – 6 ¼"	414-091-100	414-091-170	414-091-200	414-091-220



1:2

KOCHER



220 mm – 8 ¾"	414-236-010	414-236-020	414-236-030	414-236-040	414-236-060	414-236-080
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scharf
sharp
pointu
agudo
acuto



220 mm – 8 ¾"	414-237-010	414-237-020	414-237-030	414-237-040	414-237-060	414-237-080
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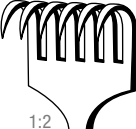
stumpf
blunt
mousse
romo
smusso



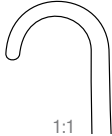




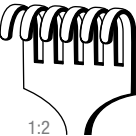
220 mm – 8 ¾"	414-238-010	414-238-020	414-238-030	414-238-040	414-238-060	414-238-080
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halbscharf
semi-sharp
semi-pointu
semi-agudo
semi-acuto

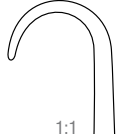




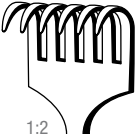
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 1:1	 1:2	 1:2	 1:2	 1:2	 1:2
215 mm – 8½"	23-121-001	23-121-002	23-121-003	23-121-004	23-121-006

scharf
 sharp
 pointu
 agudo
 acuto

 1:1	 1:2	 1:2	 1:2	 1:2	 1:2
215 mm – 8½"	23-123-001	23-123-002	23-123-003	23-123-004	23-123-006

stumpf
 blunt
 mousse
 romo
 smusso

 1:1	 1:2	 1:2	 1:2	 1:2	 1:2
215 mm – 8½"	414-218-010	414-218-020	414-218-030	414-218-040	414-218-060

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

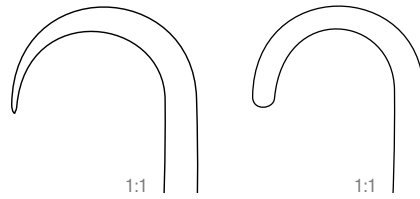

1:2

Wundhaken Retractors

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VOLKMANN



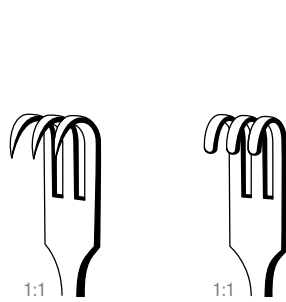
215 mm – 8½"	414-226-010	414-227-010
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scharf
sharp
pointu
agudo
acuto

stumpf
blunt
mousse
romo
smusso



SENN-MUELLER



160 mm – 6¼"	23-097-160	23-099-160
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scharf
sharp
pointu
agudo
acuto

stumpf
blunt
mousse
romo
smusso

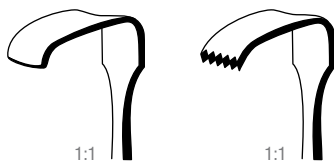


KILNER

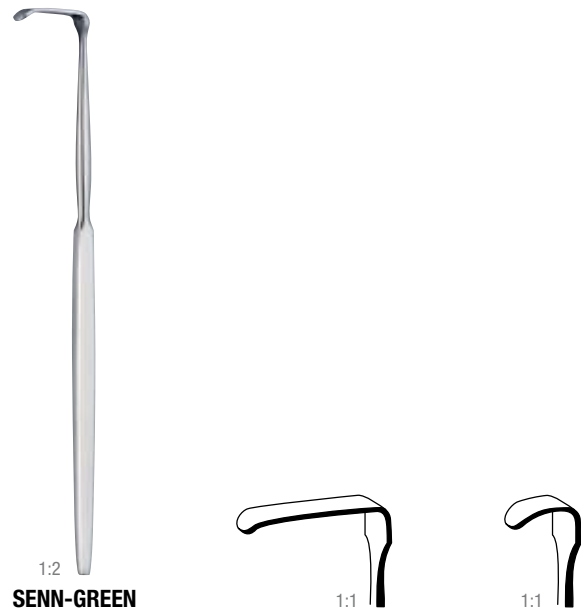
155 mm – 6"	23-095-155
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 1:2
**STRANDELL-
STILLE**


	20 mm x 6 mm	20 mm x 6 mm
190 mm – 7½"	414-187-010	414-187-020

 gezahnt
 saw edge
 dentelé
 dentado
 dentato

 1:2
SENN-GREEN

	20 mm x 6 mm	10 mm x 6 mm
150 mm – 6"	317-236-200	317-236-100


**RAGNELL-
DAVIS**

140 mm – 5½"
414-160-140


COTTLE

150 mm – 6"
436-706-140

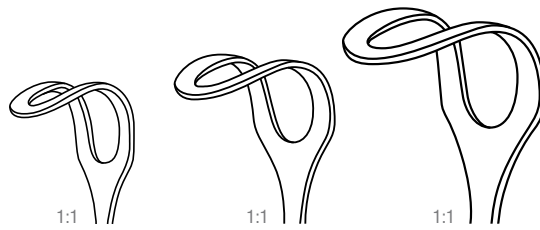

CRILE

110 mm – 4¼"
317-123-110

Wundhaken

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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"
23-161-001	23-161-002	23-161-003



MEYERDING



	18 mm x 7 mm	16 mm x 5 mm
180 mm – 7"	317-298-010	317-298-020



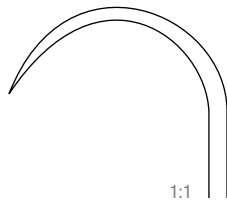
	7 mm x 4 mm	7 mm x 4 mm
180 mm – 7"	317-298-030	317-298-040



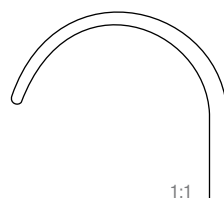
	10 mm x 3 mm	10 mm x 4 mm
180 mm – 7"	317-298-050	317-298-060

Wundhaken
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1:2



1:1



1:1

KOERTE

	26 mm x 40 mm	26 mm x 40 mm
235 mm – 9¼"	23-145-235	23-147-235

scharf
 sharp
 pointu
 agudo
 acuto

stumpf
 blunt
 mousse
 romo
 smusso

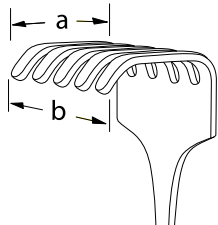

1:2

GREEN

215 mm – 8½"	317-344-220
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Wundhaken Retractors

Wundhaken
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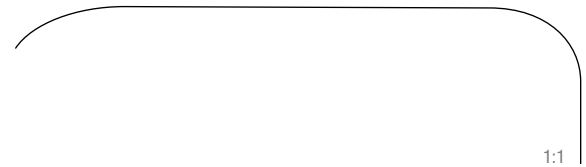
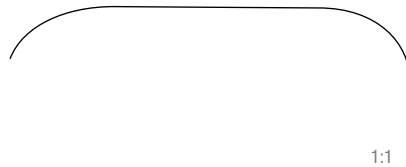


ISRAEL

	a = 40 mm – b = 40 mm	a = 45 mm – b = 50 mm
250 mm – 9¾"	317-360-400	317-360-500

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"	317-360-600	317-360-700

6 Zähne
6 Teeth
6 Dents
6 Dientes
6 Denti

6 Zähne
6 Teeth
6 Dents
6 Dientes
6 Denti

1:2



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"	317-306-010	317-306-020	317-306-030



	Fig. 4	Fig. 5
	40 mm x 11 mm	50 mm x 11 mm
220 mm – 8¾"	317-306-040	317-306-050

1:2

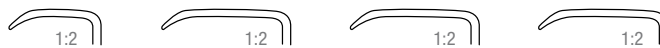
Wundhaken
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LANGENBECK

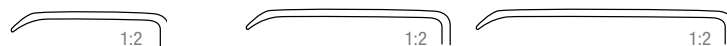

	Fig. 1	Fig. 2	Fig. 3
	30 mm x 11 mm	30 mm x 14 mm	30 mm x 16 mm
210 mm – 8¼"	23-169-001	23-169-002	23-169-003



	Fig. 4	Fig. 5
	40 mm x 11 mm	50 mm x 11 mm
210 mm – 8¼"	23-169-004	23-169-005


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 – 8½"	414-313-010	414-313-020	414-313-030	414-313-040



	42 mm x 11 mm	55 mm x 11 mm	70 mm x 14 mm
215 mm – 8½"	414-313-050	414-313-060	414-313-070



	80 mm x 12 mm	80 mm x 16 mm
215 mm – 8½"	414-313-080	414-313-090

Wundhaken Retractors

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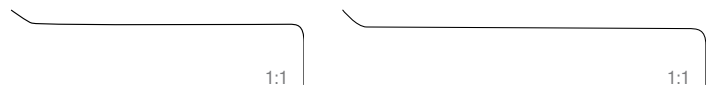
CUSHING



	x = 8 mm	x = 10 mm	x = 12 mm	x = 14 mm	x = 16 mm	x = 18 mm
200 mm – 8"	317-228-080	317-228-100	317-228-120	317-228-140	317-228-160	317-228-180
240 mm – 9½"	414-168-080	414-168-100	414-168-120	414-168-140	414-168-160	414-168-180



OBWEGESER



	40 mm x 11 mm	55 mm x 11 mm
220 mm – 8¾"	347-589-400	347-589-550



	80 mm x 16 mm
220 mm – 8¾"	347-589-800

Wundhaken
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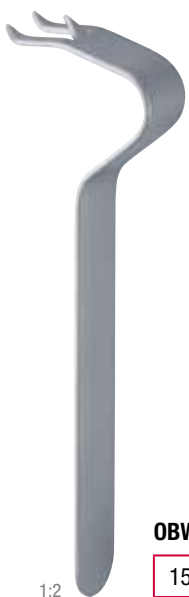
1:2

OBWEGESER

	42 mm x 10 mm	70 mm x 11 mm
220 mm – 8 ¾"	347-591-220	347-593-220

1:1

1:1



1:2

OBWEGESER

155 mm – 6"	347-597-160
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1:2

OBWEGESER

	x = 8 mm	x = 10 mm
160 mm – 6 ¼"	347-599-080	347-599-100

biegsam
 malleable
 malléable
 maleable
 flessibile

Wundhaken

Retractors

Wundhaken
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OLLIER

1:2

1:2

	a = 36 mm – b = 30 mm	a = 36 mm – b = 60 mm
225 mm – 8 ¾"	23-135-003	23-135-004

Wundhaken
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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 – 8¼"	317-326-080	317-326-550	317-326-400	317-326-750	317-326-850	317-326-100



1:2

LANGENBECK

	55 mm x 20 mm	60 mm x 20 mm
210 mm – 8¼"	317-311-220	317-311-210



1:2

LANGENBECK

	85 mm x 15 mm
210 mm – 8¼"	317-313-210

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

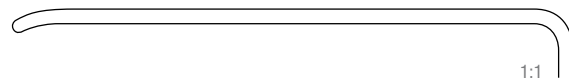
Wundhaken Retractors

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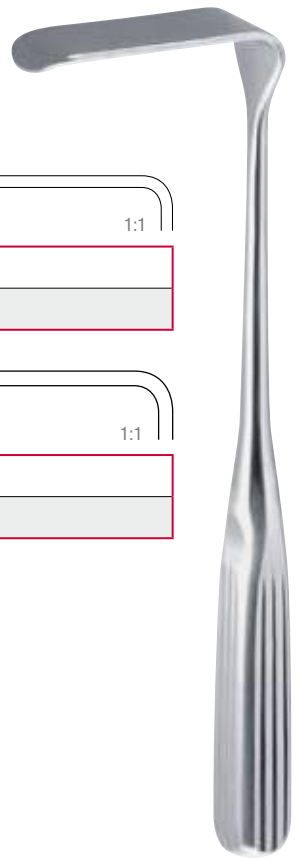
SAUERBRUCH



	45 mm x 15 mm	60 mm x 23 mm
225 mm – 8¾"	317-490-450	317-490-600



	75 mm x 20 mm
220 mm – 8¾"	317-490-750



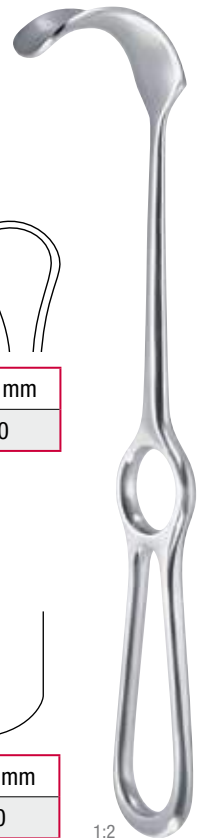
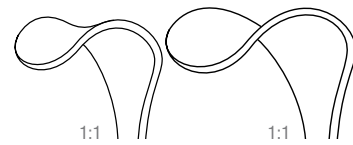
LAHEY

190 mm – 7½"
28 mm x 6 mm
317-300-190



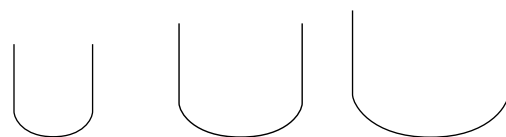
KOCHER

	19 mm x 12 mm	21 mm x 14 mm
190 mm – 7½"	317-328-190	317-328-210



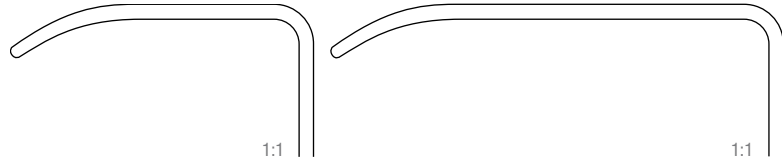
KOCHER

	40 mm x 10 mm	40 mm x 15 mm	40 mm x 20 mm
220 mm – 8¾"	317-336-100	317-336-150	317-336-200



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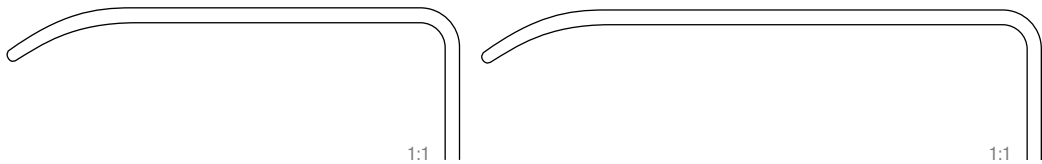

1:2

KOCHER


1:1

1:1

	40 mm x 18 mm	60 mm x 20 mm
230 mm – 9"	414-311-180	414-311-200



1:1

1:1

	60 mm x 25 mm	75 mm x 30 mm
230 mm – 9"	414-311-250	414-311-300

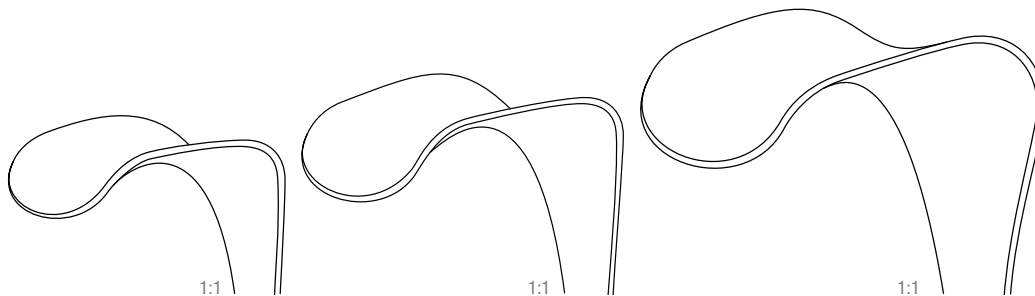


1:1

	75 mm x 40 mm
230 mm – 9"	414-311-400



1:2


RICHARDSON

1:1

1:1

1:1

	25 mm x 20 mm	36 mm x 28 mm	44 mm x 38 mm
240 mm – 9½"	23-177-025	23-177-030	23-177-038

Wundhaken

Retractors

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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
317-136-010	x	
317-136-020		x
317-136-000	x	x



1:2

RICHARDSON

240 mm – 9½ "
52 mm x 22 mm
414-391-240



1:2

KELLY

260 mm – 10¼ "
65 mm x 50 mm
317-152-260

Wundhaken
Retractors

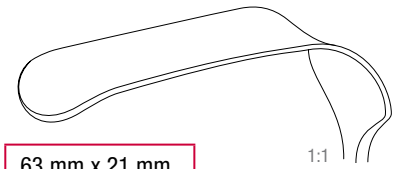
Ecarteurs
Separadores
Divaricatori



1:2

HOESEL

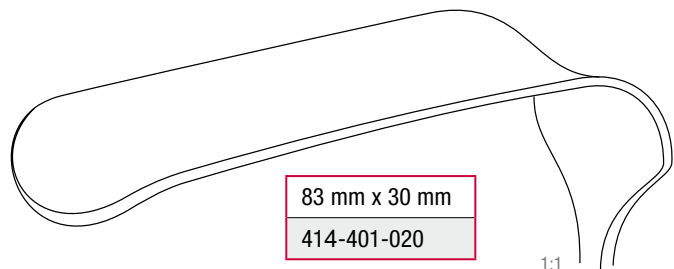
260 mm – 10 ¼"



1:1

63 mm x 21 mm

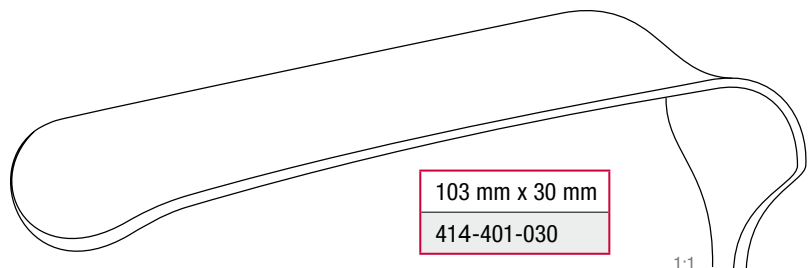
414-401-010



1:1

83 mm x 30 mm

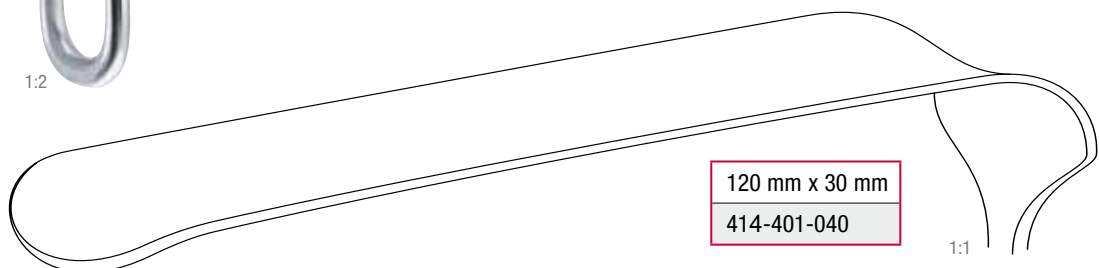
414-401-020



1:1

103 mm x 30 mm

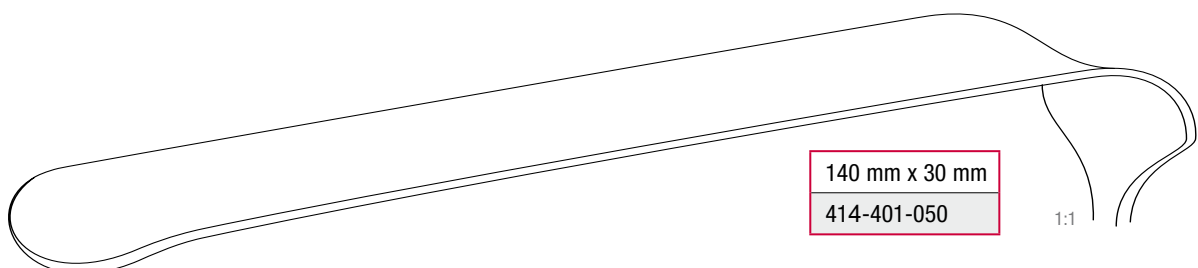
414-401-030



1:1

120 mm x 30 mm

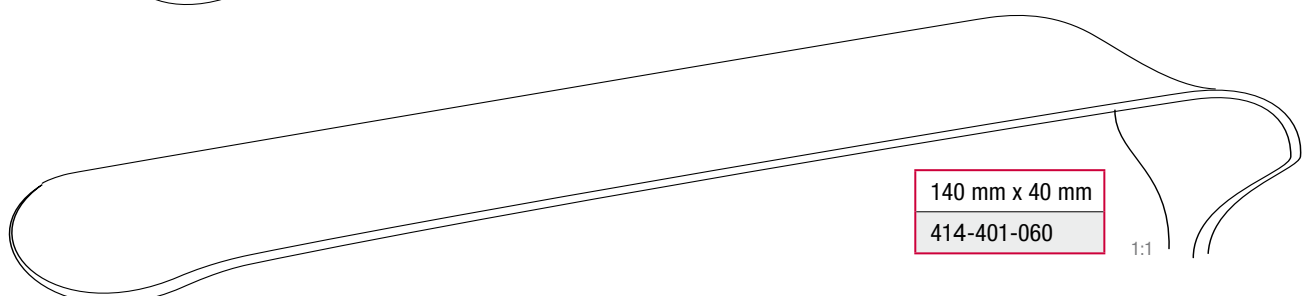
414-401-040



1:1

140 mm x 30 mm

414-401-050



1:1

140 mm x 40 mm

414-401-060

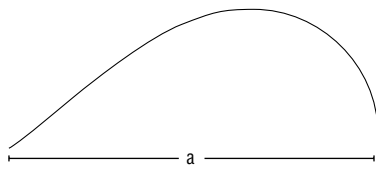
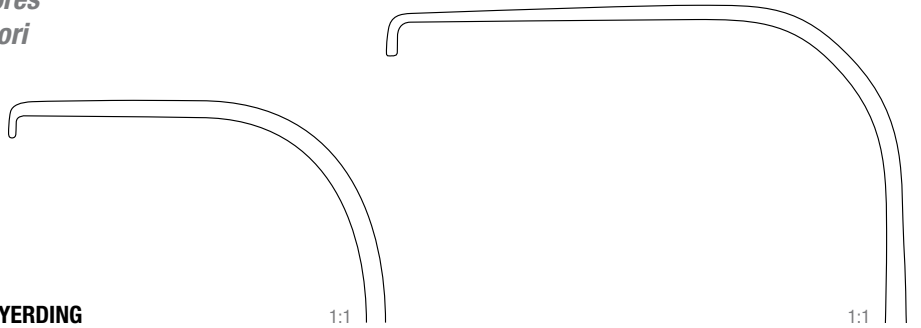
Wundhaken Retractors

Wundhaken
Retractors
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Separadores
Divaricatori



MEYERDING

200 mm – 8"	220 mm – 8¾"
50 mm x 16 mm	75 mm x 25 mm
317-494-010	317-494-020



240 mm – 9½"
90 mm x 50 mm
317-494-030

FRITSCH

240 mm – 9½"	a = 32 mm – b = 40 mm	23-701-000
240 mm – 9½"	a = 45 mm – b = 40 mm	23-701-001
240 mm – 9½"	a = 45 mm – b = 50 mm	23-701-002
240 mm – 9½"	a = 45 mm – b = 60 mm	23-701-003
240 mm – 9½"	a = 45 mm – b = 75 mm	23-701-004
240 mm – 9½"	a = 65 mm – b = 85 mm	23-701-005

Wundhaken
Retractors
Ecarteurs
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Divaricatori


1:3



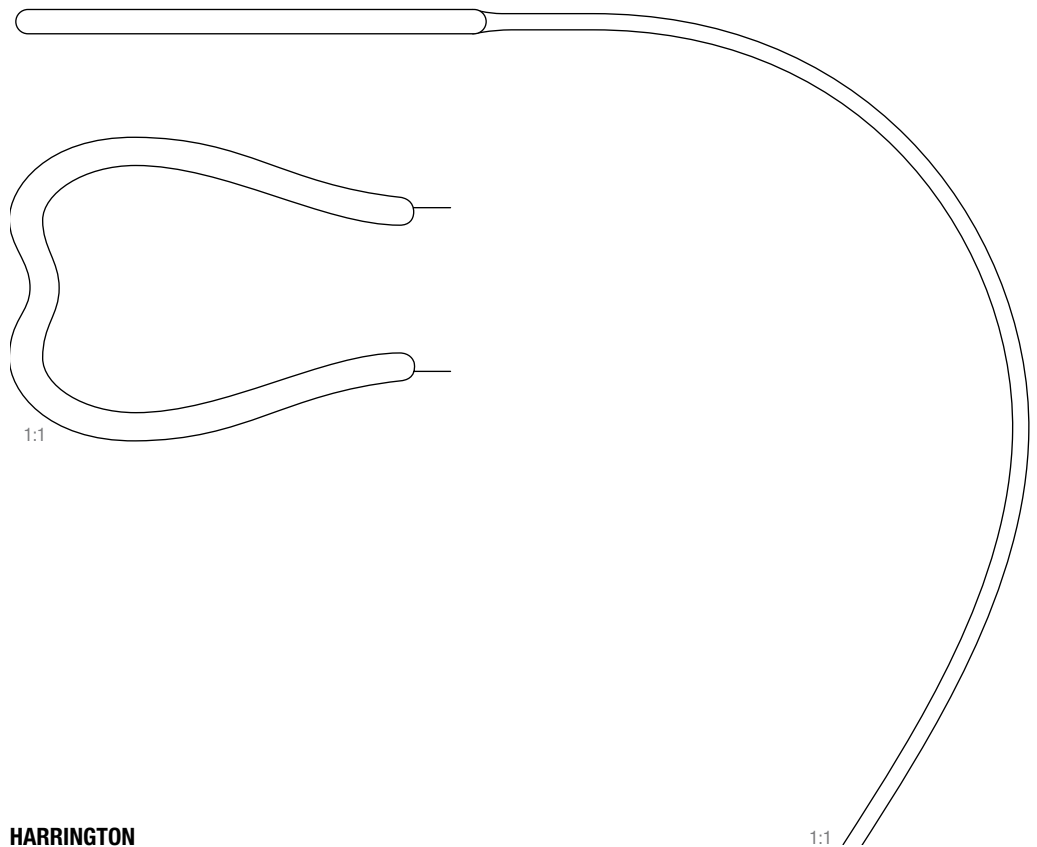
1:1

SIMON

	115 mm x 22 mm	115 mm x 27 mm
280 cm – 11 "	317-476-220	317-476-270



1:3



1:1

1:1

HARRINGTON

	127 mm x 40 mm	127 mm x 62 mm
320 mm – 12½ "	23-751-001	23-751-002

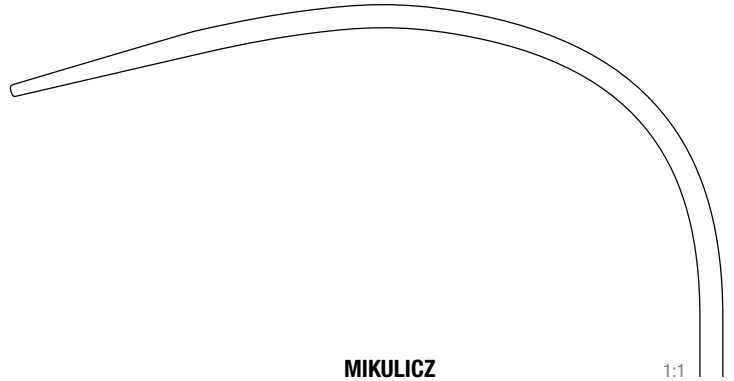
Wundhaken

Retractors

Wundhaken
Retractors
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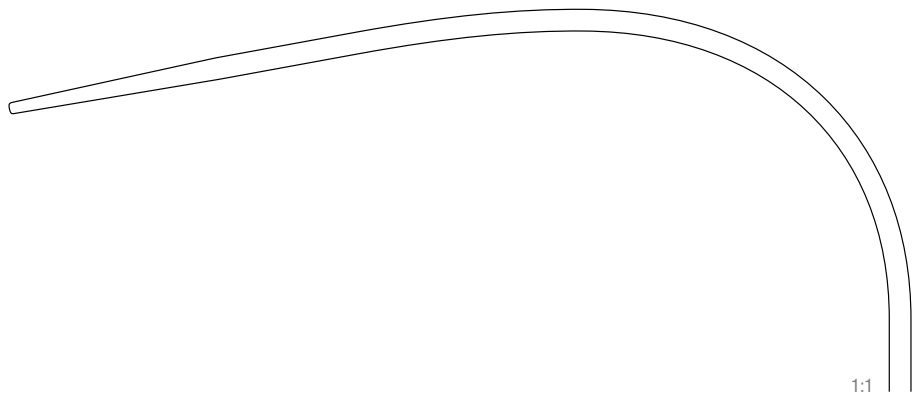
1:2



1:1

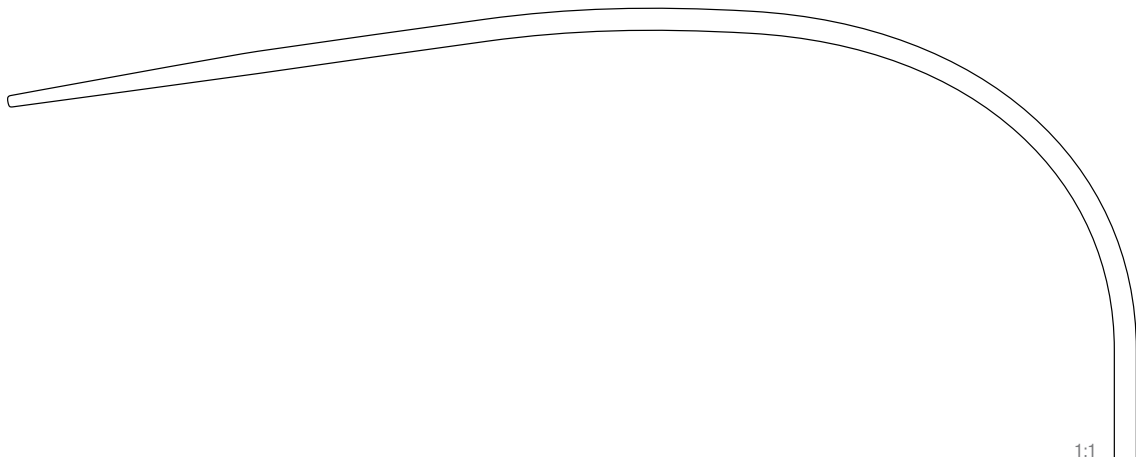
MIKULICZ

	95 mm x 35 mm
260 mm – 10 1/4"	23-221-095



1:1

120 mm x 50 mm
23-221-120



1:1

150 mm x 50 mm	180 mm x 50 mm
23-221-150	23-221-180

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



MIKULICZ

1:2

260 mm – 10 ¼"	90 mm x 50 mm	23-225-090
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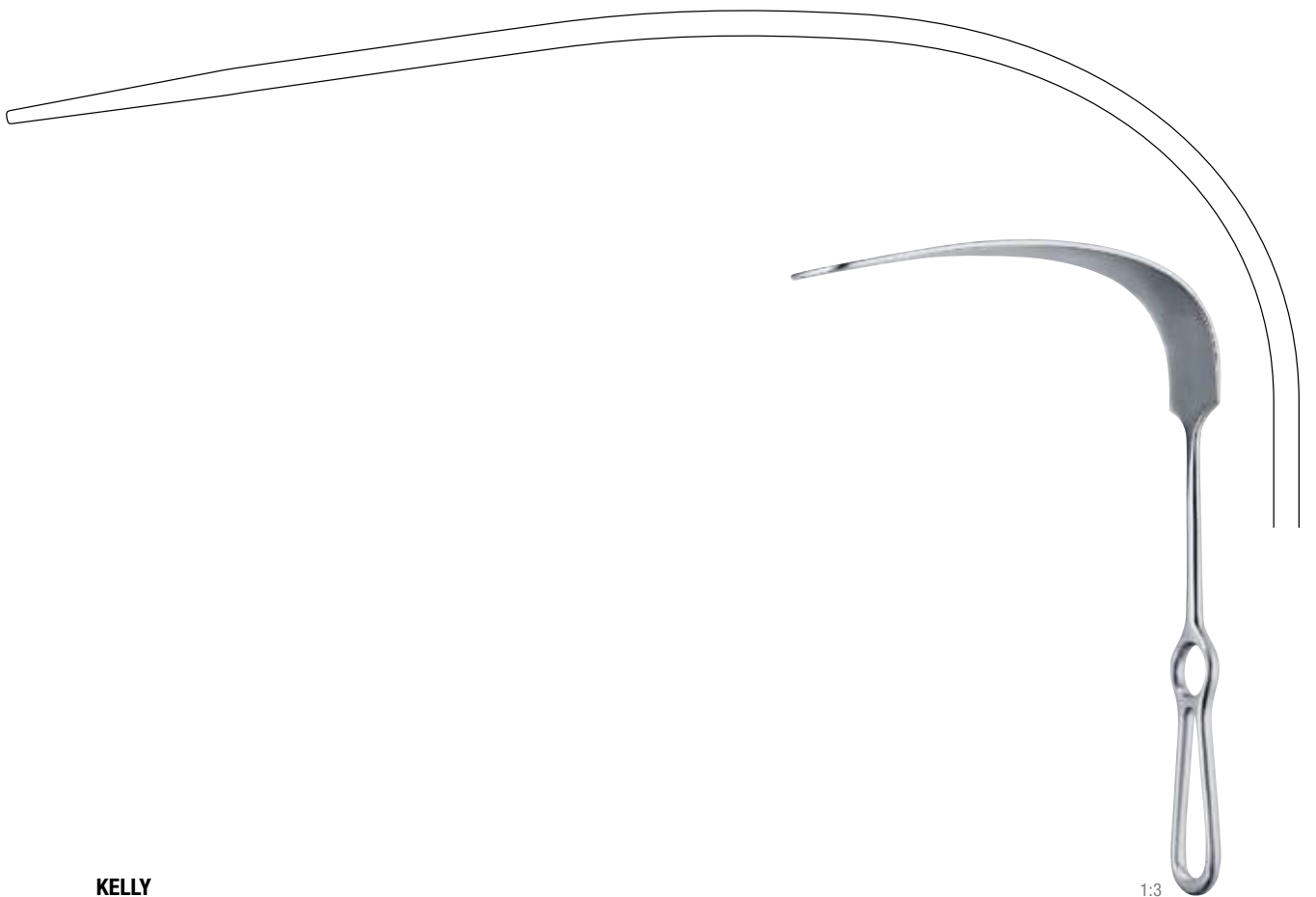
1:2

DAVIDSON

	a = 75 mm – b = 50 mm	a = 75 mm – b = 90 mm
160 mm – 6 ¼"	317-492-500	317-492-900

Wundhaken Retractors

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



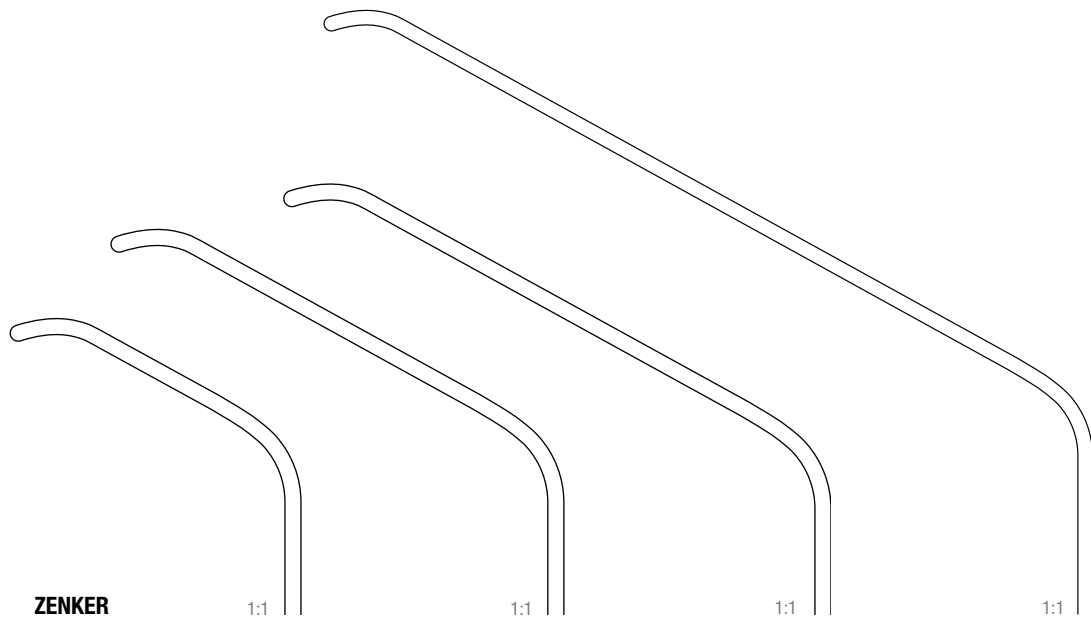
KELLY

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 3/4 "	317-381-380	317-381-381	317-381-570	317-381-571

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori


1:2


ZENKER

1:1

1:1

1:1

1:1

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
414-319-350	414-319-600	414-319-750	414-319-100

Wundhaken

Retractors

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



COOLEY 1:2

250 mm – 9¾"

414-589-010

rechts
right
droite
derecha
destra



1:2

250 mm – 9¾"

414-589-020

rechts, gerieft
right, serrated
droite, strié
derecha, estriada
destra, zigrinato



1:2

270 mm – 10½"

414-589-030

links
left
gauche
izquierda
sinistra

Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



1:2

MIDDELDORPF

1:1

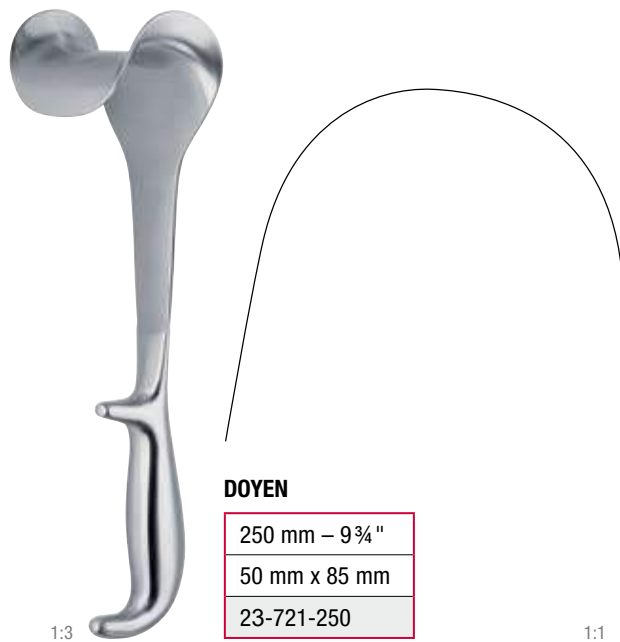
1:1

1:1

	45 mm x 45 mm	45 mm x 50 mm	55 mm x 70 mm
255 mm – 10"	414-437-010	414-437-020	414-437-030

Wundhaken Retractors

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



DOYEN

250 mm – 9¾"
50 mm x 85 mm
23-721-250



TUFFIER

230 mm – 9"
64 mm x 60 mm
414-477-230



KOCHER

225 mm – 8¾"
70 mm x 25 mm
317-368-220



KOCHER

	250 mm – 9¾"
80 mm x 45 mm	23-233-042
80 mm x 55 mm	23-233-050
80 mm x 65 mm	23-233-060

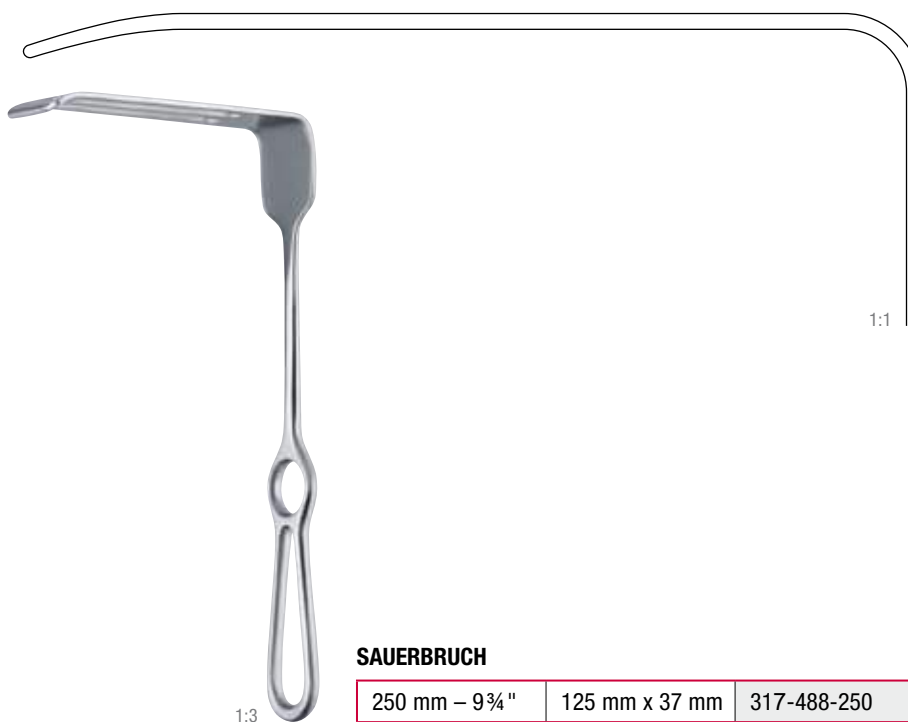
Wundhaken
Retractors

Ecarteurs
Separadores
Divaricatori



MARTIN

250 mm – 9¾"	105 mm x 27 mm	414-497-250
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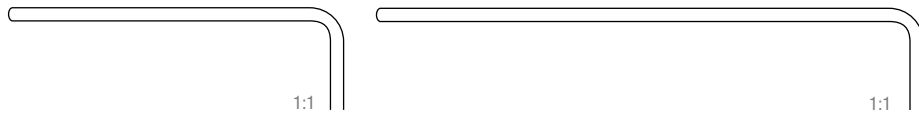
SAUERBRUCH

250 mm – 9¾"	125 mm x 37 mm	317-488-250
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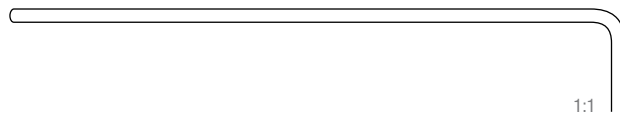
Wundhaken Retractors

Wundhaken
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Divaricatori

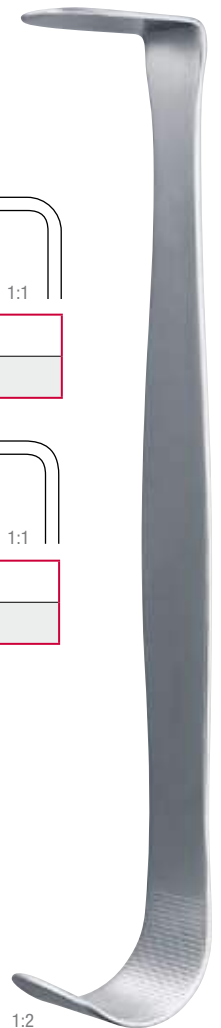
HEANEY



	45 mm x 25 mm	73 mm x 28 mm
270 mm – 10 3/4"	317-478-450	317-478-730

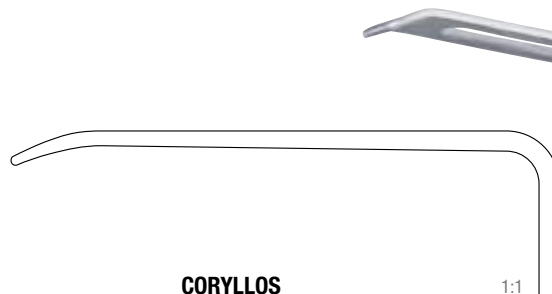


82 mm x 28 mm
317-478-820

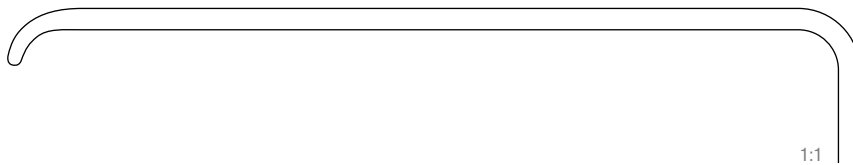


1:2

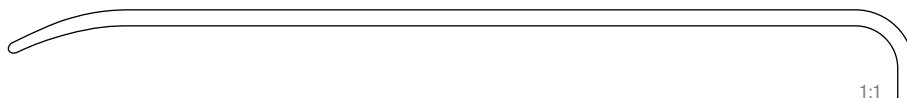
CORYLLOS



	82 mm x 22 mm
240 mm – 9 1/2"	317-486-220



108 mm x 43 mm
317-486-430



115 mm x 65 mm
317-486-650

1:2



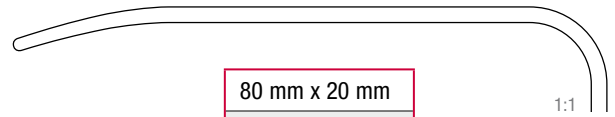
Wundhaken
Retractors
Ecarteurs
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Divaricatori



1:2

BRUNNER

250 mm – 9¾"



80 mm x 20 mm

23-741-080

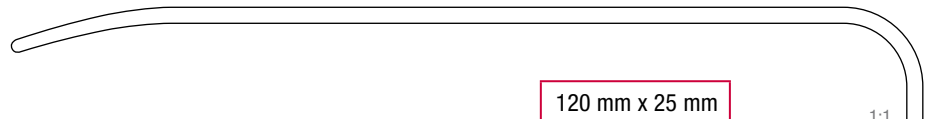
1:1



100 mm x 20 mm

23-741-100

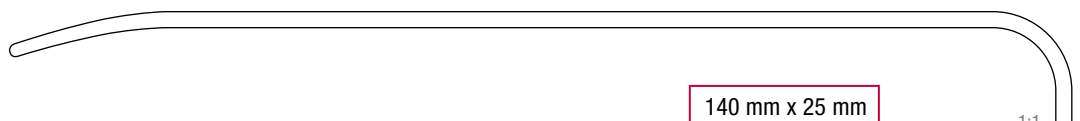
1:1



120 mm x 25 mm

23-741-120

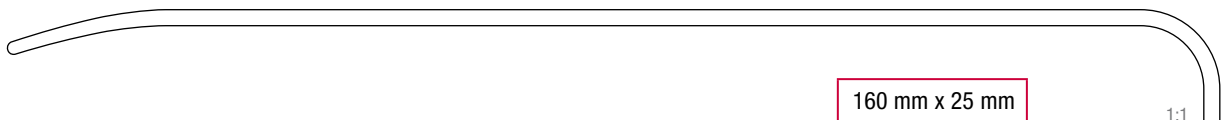
1:1



140 mm x 25 mm

23-741-140

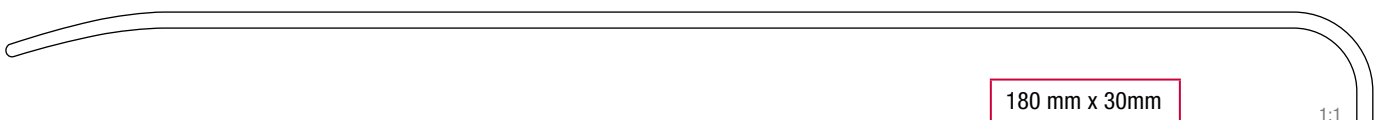
1:1



160 mm x 25 mm

23-741-160

1:1



180 mm x 30mm

23-741-180

1:1

Wundhaken Retractors

Wundhaken
Retractors
Ecarteurs
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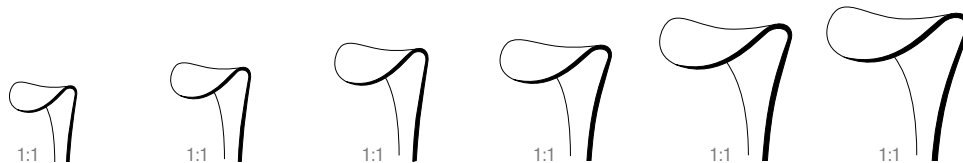


BRUNNER

1:2

240 mm – 9½"	142 mm x 25 mm	414-553-240
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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 – 9½"	414-170-080	414-170-110	414-170-150	414-170-170	414-170-200	414-170-230

biegsam
 malleable
 malléable
 maleable
 malleabile

1:2


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
414-611-020	414-611-010	414-611-030

Wundhaken Retractors

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori

CUSHING

200 mm – 8"

317-230-200



1:2

KOERTE

280 mm – 11"

120 mm x 47 mm

414-613-280



1:2



MORRIS 1:2

210 mm – 8 1/4"

50 mm x 55 mm

317-385-500

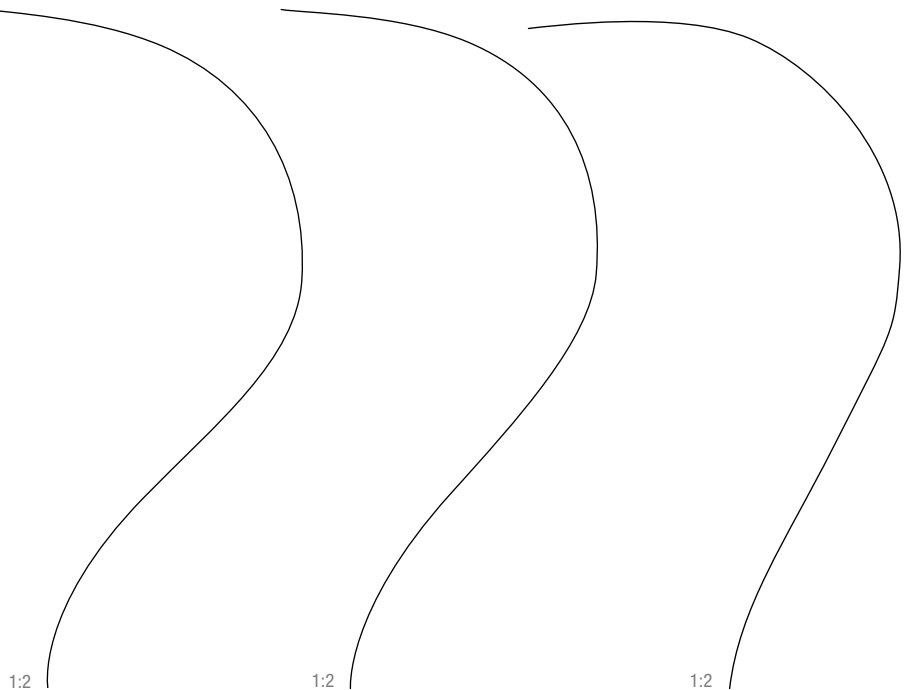


1:2

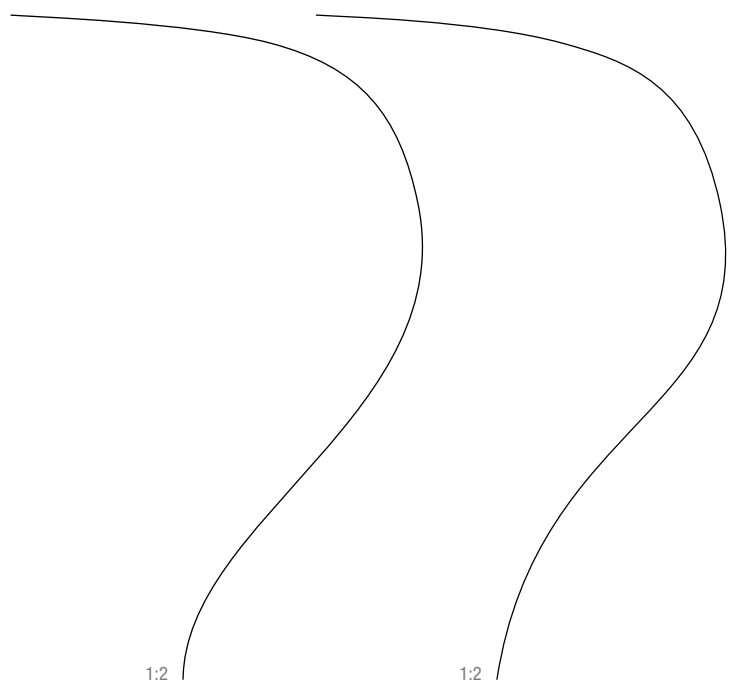
MORRIS

	38 mm x 51 mm	50 mm x 55 mm	64 mm x 51 mm
245 mm – 9 3/4"	317-386-380	317-386-510	317-386-640

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori

DEAVER


	x = 25 mm	x = 38 mm	x = 50 mm
315 mm – 12½"	317-185-250	317-185-380	317-185-500



x = 75 mm	x = 100 mm
317-185-750	317-186-100

Wundhaken

Retractors

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



DEAVER 1:2	1:2	1:2
180 mm – 7"	215 mm – 8½"	230 mm – 9"
x = 19 mm	x = 22 mm	x = 25 mm
23-755-001	23-755-002	23-755-003

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori

DEAVER

1:2

1:2

1:2

300 mm – 12"	330 mm – 13"	360 mm – 14¼"
x = 25 mm	x = 25 mm	x = 25 mm
23-755-004	23-755-005	23-755-006

Wundhaken Retractors

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
23-755-007	23-755-008	23-755-009

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori


1:2

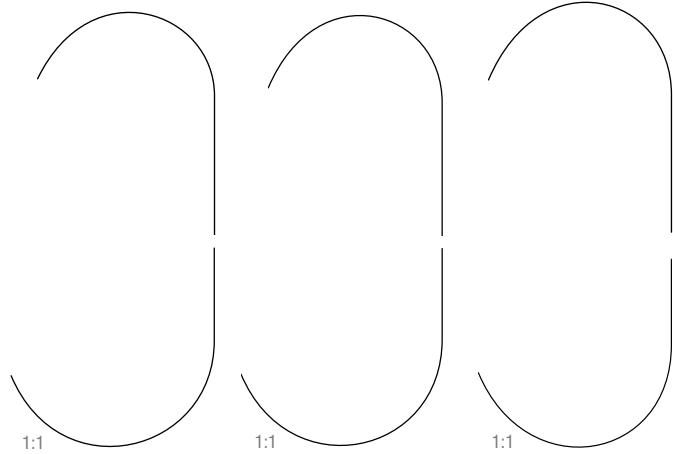

ROUX

	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
	23-301-001	23-301-002	23-301-003

23-301-000	x	x	x
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Satz
 Set
 Jeu
 Juego
 Serie


1:2

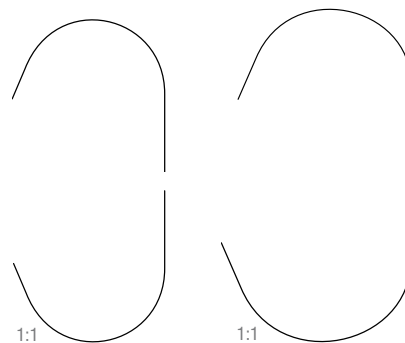

PARKER

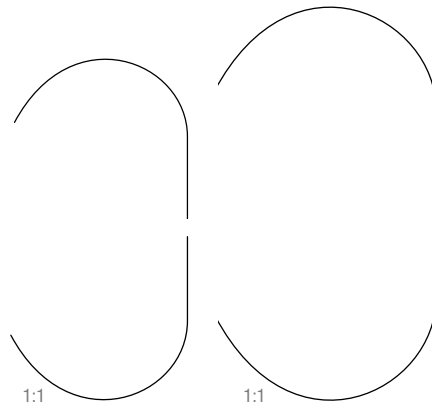
	Fig. 1	Fig. 2
	135 mm – 5¼"	135 mm – 5¼"
	18 mm x 15 mm	22 mm x 15 mm

317-106-130	x	x
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Satz
 Set
 Jeu
 Juego
 Serie

Wundhaken Retractors

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

317-106-180	x	x
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Satz
Set
Jeu
Juego
Serie



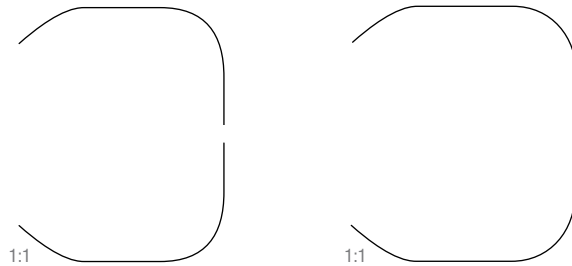
MINI-ROUX

145 mm – 5¾"
8 mm x 6 mm
317-120-150



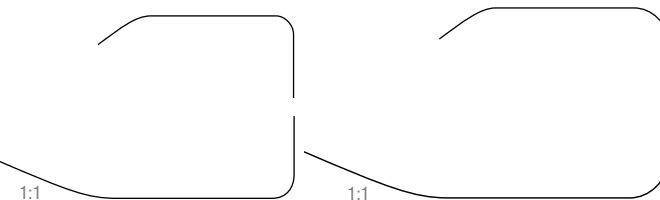
BABY-ROUX

130 mm – 5"
17 mm x 16 mm
18 mm x 22 mm
317-118-130

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori

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

317-108-150	x	x
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Satz
 Set
 Jeu
 Juego
 Serie

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

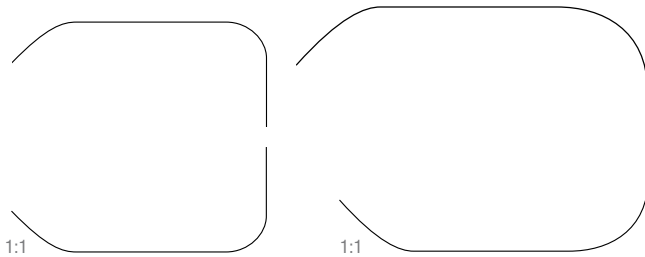
23-333-000	x	x
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Satz
 Set
 Jeu
 Juego
 Serie

Wundhaken

Retractors

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori

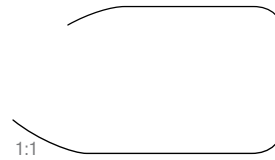
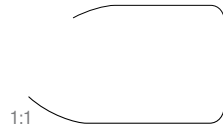


MATHIEU

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
	317-130-010	317-130-020

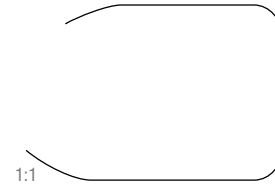
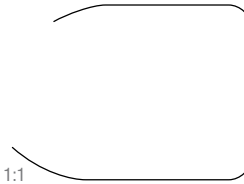
317-130-200	x	x
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Satz
 Set
 Jeu
 Juego
 Serie

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori

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

23-311-000	x	x
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Satz
 Set
 Jeu
 Juego
 Serie

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

23-313-000	x	x
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Satz
 Set
 Jeu
 Juego
 Serie

Wundhaken Retractors

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



ALM

70 mm – 2¾"	24-020-070	414-712-070	24-024-070
100 mm – 4"	24-020-100	414-712-100	24-024-100

scharf
sharp
pointu
agudo
acuto

halbscharf
semi sharp
semi pointu
semi agudo
semi acuto

stumpf
blunt
mousse
romo
smusso



BOSE

1:2

70 mm – 2¾"	353-111-070
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HOLTZHEIMER 1:2

100 mm – 4"	24-026-100	24-028-100
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scharf
sharp
pointu
agudo
acuto

stumpf
blunt
mousse
romo
smusso



JANSEN 1:2

100 mm – 4"	24-040-100	24-042-100
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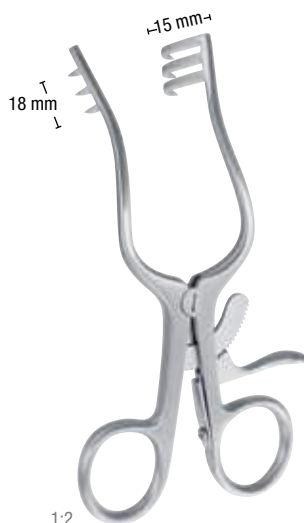
scharf
sharp
pointu
agudo
acuto

stumpf
blunt
mousse
romo
smusso

Wundsperrer
Self-retaining retractors
Ecarteurs autostatiques
Separadores autoestáticos
Divaricatori autostatici

CLOWARD-CONTOUR 1:2

140 mm – 5½"	414-721-140	414-723-140
	3 x 4 scharf sharp pointu agudo acuto	3 x 4 stumpf blunt mousse romo smusso


WEITLANER-WULLSTEIN 1:2

130 m – 5"	24-091-130	24-093-130
	3 x 3 scharf sharp pointu agudo acuto	3 x 3 stumpf blunt mousse romo smusso


MILLIGAN 1:2

130 mm – 5"	414-761-130
	3 x 3 stumpf blunt mousse romo smusso

Wundhaken

Retractors

Wundsperrer

Self-retaining retractors

Ecarteurs autostatiques

Separadores autoestáticos

Divaricatori autostatici



1:2



1:2

BELLUCCI

110 mm – 4 ¼ "	24-007-110	24-009-110
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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

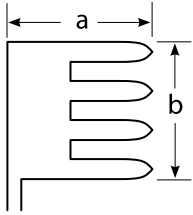


1:2

MOLLISON

150 mm – 6 "	317-689-150
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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	24-050-105	24-051-105	24-052-105			
130 mm – 5"	a = 17 mm – b = 17 mm				24-060-130	24-061-130	24-062-130
165 mm – 6 ½"	a = 17 mm – b = 17 mm				24-064-165	24-065-165	24-066-165
200 mm – 8"	a = 20 mm – b = 19 mm				24-074-200	24-075-200	24-076-200
260 mm – 10 ¼"	a = 26 mm – b = 21 mm				414-756-260	414-755-260	414-757-260

 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

Wundhaken

Retractors

Wundsperrer

Self-retaining retractors

Ecarteurs autostatiques

Separadores autoestáticos

Divaricatori autostatici



1:2

PLESTER

130 mm – 5"	414-751-130	414-752-130
	2 x 2 stumpf blunt mousse romo smusso	2 x 2 scharf sharp pointu agudo acuto



1:2

PLESTER



1:2

110 mm – 4 ¼"	24-011-110	24-013-110
	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 – 8¾"	317-670-220
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 4 x 5
stumpf
 blunt
 mousse
 romo
 smusso


1:2

TRAVERS

215 mm – 8½"	24-098-210
--------------	------------

 4 x 5
stumpf
 blunt
 mousse
 romo
 smusso


1:2

ANDERSON-ADSON

195 mm – 7¾"	317-676-190	317-674-200
--------------	-------------	-------------

 4 x 4
scharf
 sharp
 pointu
 agudo
 acuto

 4 x 4
stumpf
 blunt
 mousse
 romo
 smusso

Wundhaken

Retractors

Wundsperrer

Self-retaining retractors

Ecarteurs autostatiques

Separadores autoestáticos

Divaricatori autostatici



ADSON (CONE)

130 mm – 5"	a = 17 mm – b = 19 mm	414-766-130	414-767-130
160 mm – 6 ¼"	a = 17 mm – b = 19 mm	414-766-160	414-767-160
200 mm – 8"	a = 20 mm – b = 20 mm	414-766-200	414-767-200
260 mm – 10 ¼"	a = 26 mm – b = 21 mm	414-766-260	414-767-260

3 x 4
scharf
sharp
pointu
agudo
acuto

3 x 4
stumpf
blunt
mousse
romo
smusso



1:2

BECKMANN-EATON

320 mm – 12 ½"
24-120-320

7 x 7
scharf
sharp
pointu
agudo
acuto

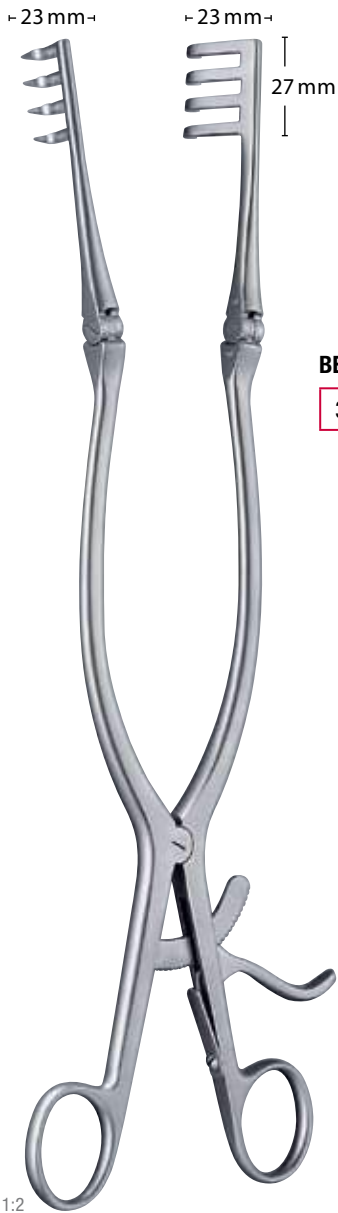
Wundsperrer

Self-retaining retractors

Ecarteurs autostatiques

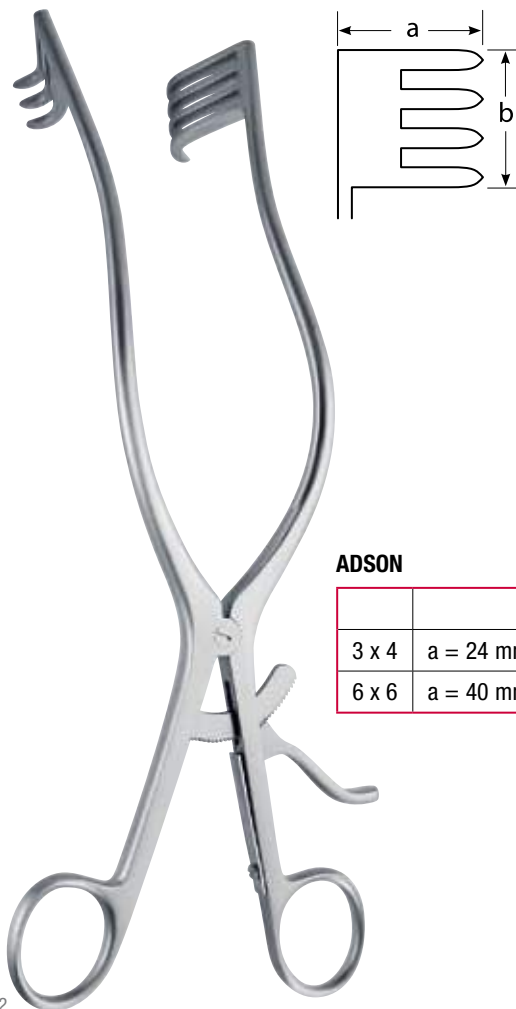
Separadores autoestáticos

Divaricatori autostatici



BECKMANN

310 mm – 12¼"	24-114-310	24-115-310	317-687-310
4 x 4	4 x 4	4 x 4	4 x 4
scharf	halbscharf	stumpf	
sharp	semi sharp	blunt	
pointu	semi pointu	mousse	
agudo	semi agudo	romo	
acuto	semi acuto	smusso	



ADSON

		265 mm – 10½"	265 mm – 10½"
3 x 4	a = 24 mm – b = 24 mm	317-678-260	317-679-260
6 x 6	a = 40 mm – b = 40 mm	317-678-270	317-679-270

scharf
sharp
pointu
agudo
acuto

stumpf
blunt
mousse
romo
smusso

Wundhaken

Retractors

Wundsperrer

Self-retaining retractors

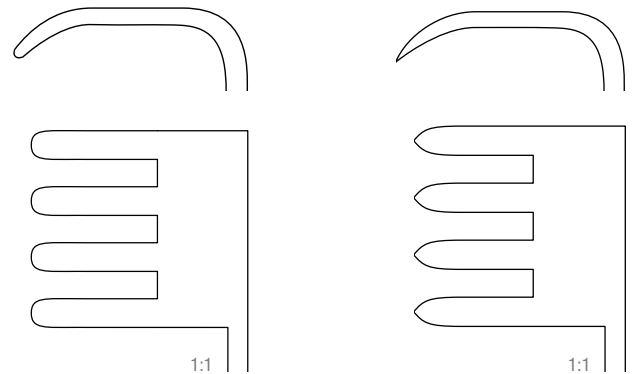
Ecarteurs autostatiques

Separadores autoestáticos

Divaricatori autostatici



1:2



BECKMANN-ADSON

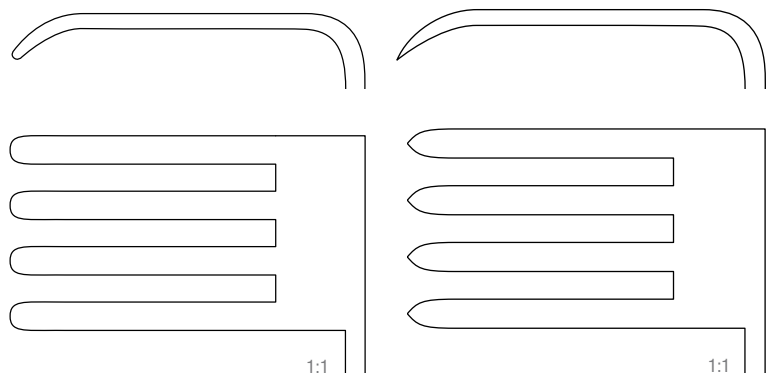
310 mm – 12 1/4"

414-774-000

414-774-010

stumpf
blunt
mousse
romo
smusso

scharf
sharp
pointu
agudo
acuto



414-774-020

414-774-030

stumpf, mit tiefen Blättern
blunt, with deep blades
mousse, avec lames profondes
romo, con palas profundas
smusso, con valve profonda

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"

317-802-180


GELPI-LOKTITE

1:2

90 mm – 3½"

317-798-090

110 mm – 4¼"

317-798-110

140 mm – 5½"

24-102-140

160 mm – 6⅓"

24-102-160

180 mm – 7"

24-102-180

317-800-180


**MARKHAM-
MEYERDING**

180 mm – 7"

317-708-180

317-709-180

 rechts
 right
 droit
 derecha
 destra

 links
 left
 gauche
 izquierda
 sinistra

Wundhaken

Retractors

Wundsperrer

Self-retaining retractors

Ecarteurs autostatiques

Separadores autoestáticos

Divaricatori autostatici



1:2

HENLEY

165 mm – 6 ½"	414-765-000	414-764-000
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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
414-764-190	414-764-250	414-764-320

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		
414-816-000	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 – 8¾"	x = 100 mm	317-806-220
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COLLIN

225 mm – 8¾"		
x = 100 mm		
24-530-000	a = 38 mm – b = 55 mm	a = 38 mm – b = 55 mm
24-534-000	a = 38 mm – b = 80 mm	a = 50 mm – b = 75 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

Wundhaken Retractors

Bauchdeckenhalter Abdominal retractors

*Ecarteurs abdominaux
Separadores abdominales
Divaricatori addominali*



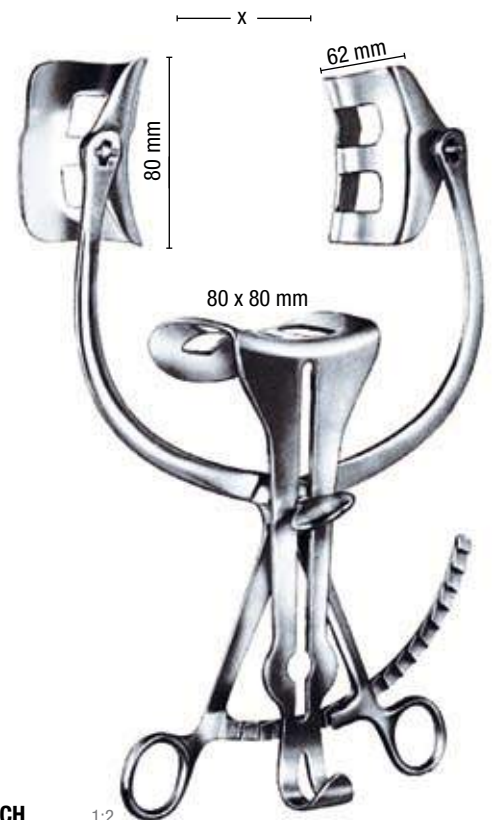
COLLIN 1:2

260 mm – 10 ½"		
x = 160 mm		
24-538-000	60 mm x 80 mm	60 mm x 75 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



HOLZBACH 1:2

260 mm – 10 ¼"		
x = 100 mm		
317-816-000	62 mm x 80 mm	80 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

Bauchdeckenhalter
Abdominal retractors

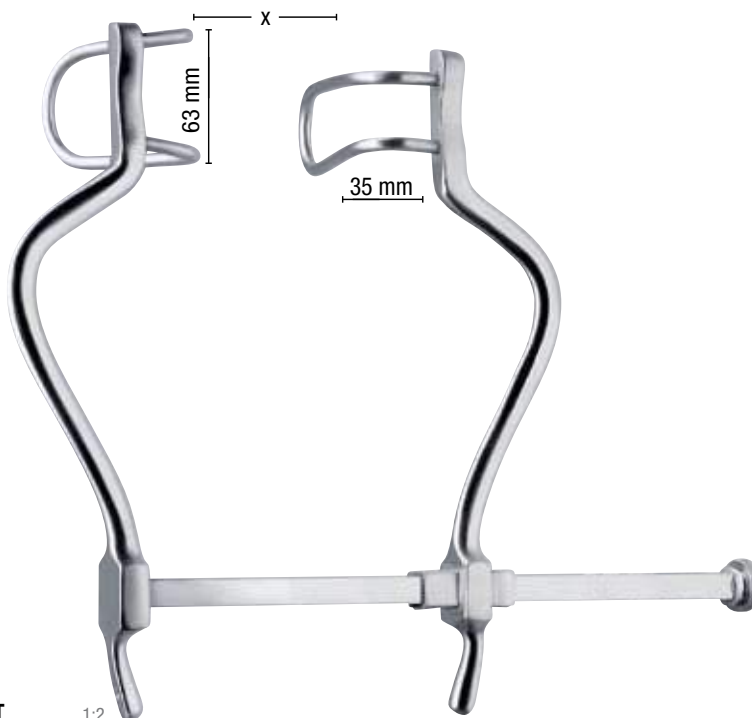
Ecarteurs abdominaux
Separadores abdominales
Divaricatori addominali



GOSSET

1:2

125 mm – 5"	x = 100 mm	414-836-000
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GOSSET

1:2

185 mm – 7 ¼"	x = 140 mm	24-554-000
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Wundhaken

Retractors

Bauchdeckenhalter

Abdominal retractors

Ecarteurs abdominaux
Separadores abdominales
Divaricatori addominali



GOSSET

1:3

x = 160 mm		
317-758-160	35 mm x 63 mm	65 mm x 70 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



BALFOUR

1:3

x = 200 mm		
24-578-000	35 mm x 100 mm	70 mm x 100 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

BALFOUR

x = 180 mm		
24-574-000	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		
317-760-250	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	317-761-450
70 mm x 85 mm	317-761-700
80 mm x 90 mm	317-761-800

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

BALFOUR-BABY

x = 90 mm		
24-570-000	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

Wundhaken

Retractors

Bauchdeckenhalter

Abdominal retractors

Ecarteurs abdominaux
Separadores abdominales
Divaricatori addominali



1:3

RICARD

317-818-280	60 mm x 80 mm	55 mm x 70 mm
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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

317-818-300	70 mm x 85 mm	80 mm x 90 mm
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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



1:3

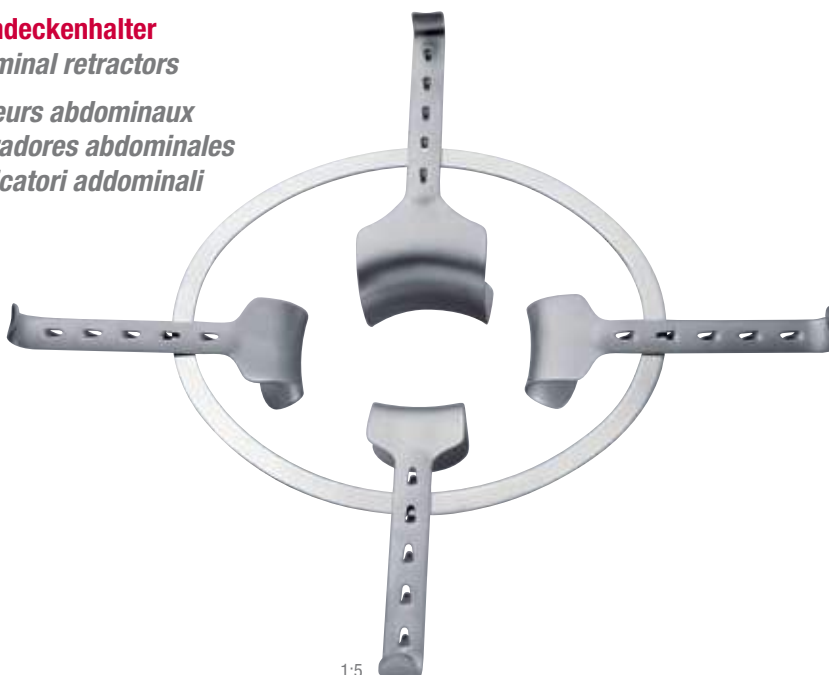
**O'SULLIVAN-
 O'CONNOR**

317-750-000	45 mm x 90 mm	70 mm x 100 mm
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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

KIRSCHNER, OVAL

1:5

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
24-604-300	24-592-050	24-605-080	24-605-098	24-605-105

1 Rahmen	3 Valven	1 Valve	1 Valve	1 Valve
1 Frame	3 Blades	1 Blade	1 Blade	1 Blade
1 Cadre	3 Valves	1 Valve	1 Valve	1 Valve
1 Cuadro	3 Valvas	1 Valva	1 Valva	1 Valva
1 Quadro	3 Valve	1 Valva	1 Valva	1 Valva

24-600-000	x	x	x	x	x
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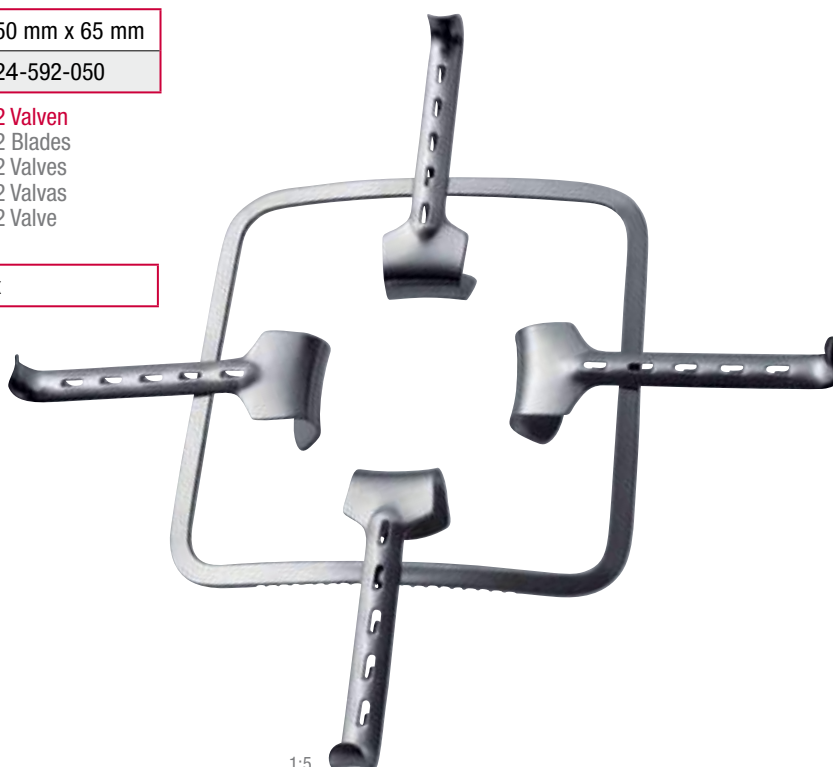
 Satz
 Set
 Jeu
 Juego
 Serie

KIRSCHNER

240 mm x 240 mm	40 mm x 55 mm	50 mm x 65 mm
24-586-000	24-592-040	24-592-050

1 Rahmen, fest	2 Valven	2 Valven
1 Frame, rigid	2 Blades	2 Blades
1 Cadre, rigide	2 Valves	2 Valves
1 Cuadro, rígido	2 Valvas	2 Valvas
1 Quadro, rígido	2 Valve	2 Valve

24-584-000	x	x	x
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 Satz
 Set
 Jeu
 Juego
 Serie


1:5

Wundhaken

Retractors

Bauchdeckenhalter

Abdominal retractors

Ecarteurs abdominaux
Separadores abdominales
Divaricatori addominali



Rahmen zusammenlegbar
 Frame foldable
 Cadre pliant
 Cuadro plegable
 Quadro piegabile



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
414-890-300	414-835-380	414-835-450	24-592-050	414-885-600

1 Rahmen, zusammenlegbar	2 Valven	2 Valven	2 Valven	2 Valven
1 Frame, foldable	2 Blades	2 Blades	2 Blades	2 Blades
1 Cadre pliant	2 Valves	2 Valves	2 Valves	2 Valves
1 Cuadro plegable	2 Valvas	2 Valvas	2 Valvas	2 Valvas
1 Quadro piegabile	2 Valve	2 Valve	2 Valve	2 Valve

414-890-000	x	x		x	
414-892-000	x	x	x	x	x

Satz
 Set
 Jeu
 Juego
 Serie



1:4

Bauchdeckenhalter
Abdominal retractors
Ecarteurs abdominaux
Separadores abdominales
Divaricatori addominali

Valven für Kirschner- und Franz-Rahmen
 Blades for Kirschner- and Franz-frames
 Valves pour cadres Kirschner et Franz
 Valvas para los cuadros de Kirschner y Franz
 Valve per i quadri di Kirschner e Franz


1:3

1:3



1:3

1:3

40 mm x 60 mm	45 mm x 80 mm	40 mm x 55 mm	50 mm x 65 mm
414-835-380	414-835-450	24-592-040	24-592-050



1:3

1:3



1:3

1:3

60 mm x 85 mm	80 mm x 90 mm	50 mm x 98 mm	35 mm x 105 mm
414-885-600	24-605-080	24-605-098	24-605-105

Wundhaken

Retractors

Bauchspatel

Abdominal spatula

Spatula abdominales

Espátulas abdominales

Spatole addominali



RIBBON

	19 mm	25 mm	30 mm	40 mm	50 mm
330 mm – 13"	317-166-190	317-166-250	317-166-320	317-166-400	317-166-500

biegsam
malleable
malléable
maleable
flessibile



RIBBON

	6 mm	9 mm	12 mm	17 mm	20 mm
200 mm – 8"	317-164-060	317-164-090	317-164-120	317-164-170	317-164-200

weich
soft
souple
flexible
morbido

	25 mm
250 mm – 9¾"	317-164-250

weich
soft
souple
flexible
morbido

	6,5 mm	9,5 mm	13 mm	16 mm	19 mm	25 mm
200 mm – 8"	414-971-060	414-971-090	414-971-130	414-971-160	414-971-190	414-971-250

biegsam, sehr weich
malleable, very soft
malléable, très 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
317-170-170	317-170-250	317-170-370

biegsam
 malleable
 malléable
 maleable
 flessibile


REVERDIN

1:2

280 mm – 11"	46 mm x 60 mm	317-171-280
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Wundhaken

Retractors

Wundspreizer
Retractors
Ecarteurs
Separadores
Divaricatori



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
61-293-001	61-293-002	61-293-003	61-290-000

komplett
complete
complet
completo
completo



FRIEDMANN

100 mm – 4"	369-347-100
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Laminektomiesperrer
Laminectomy retractors
Ecarteurs pour laminectomie
Separadores para laminectomía
Divaricatori per laminectomia

CLOWARD

1:3



1:3

160 mm – 6¼"	250 mm – 9¾"
317-707-000	317-706-000

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 con 2 valve Fig. 1 - Fig. 5

komplett mit je 2 Valven Fig. 1 - Fig. 5

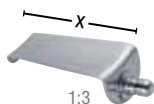
 complete with 2 blades ea. Fig. 1 - Fig. 5
 complet avec 2 valves chacune Fig. 1 - Fig. 5
 completo con 2 valvas de cada Fig. 1 - Fig. 5
 completo con 2 valve Fig. 1 - Fig. 5

317-707-010	317-706-010
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Sperrer ohne Valven

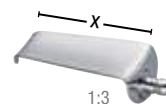
 Retractor without blades
 Ecarteur sans valves
 Separador sin valvas
 Divaricatore senza valve

Sperrer ohne Valven

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


1:3

x = 40 mm	317-707-400
x = 45 mm	317-707-450
x = 50 mm	317-707-500
x = 55 mm	317-707-550
x = 60 mm	317-707-600

stumpf
 blunt
 mousse
 romo
 smusso


1:3

x = 40 mm	317-706-400
x = 45 mm	317-706-450
x = 50 mm	317-706-500
x = 55 mm	317-706-550
x = 60 mm	317-706-600

gezahnt
 toothed
 dentelée
 dentada
 dentata

Wundhaken

Retractors

Laminektomiesperrer

Laminectomy retractors

Ecarteurs pour laminectomie
Separadores para laminectomía
Divaricatori per laminectomia



165 mm – 6 ½ "	270 mm – 10 ¾ "
339-401-170	339-401-270

CLOWARD- VERTREBRA



160 mm – 6 ¼ "	339-397-160
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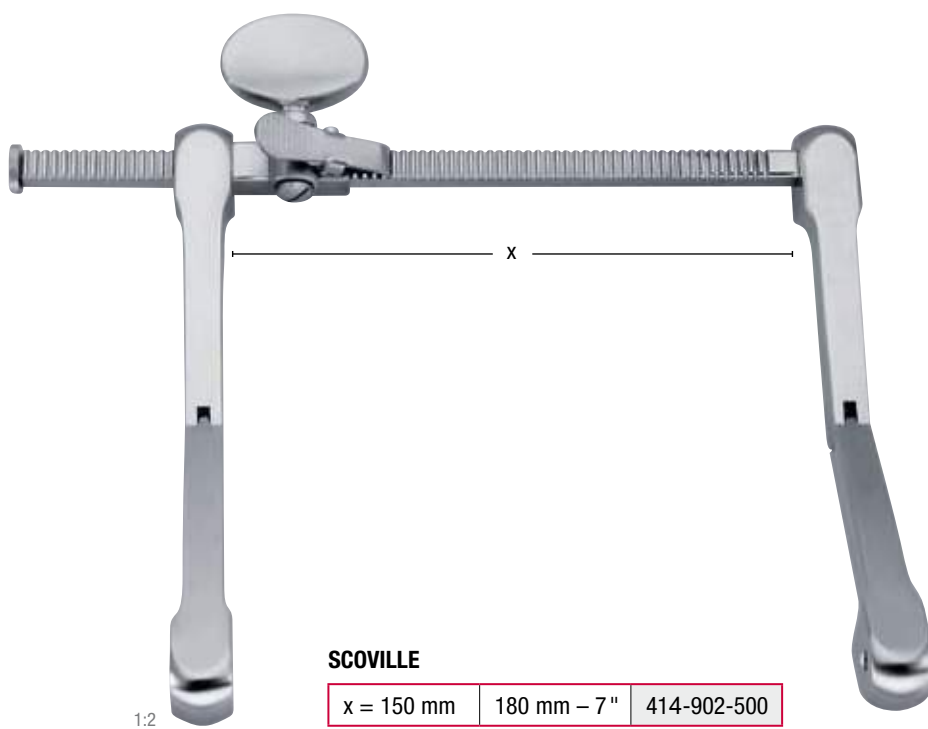
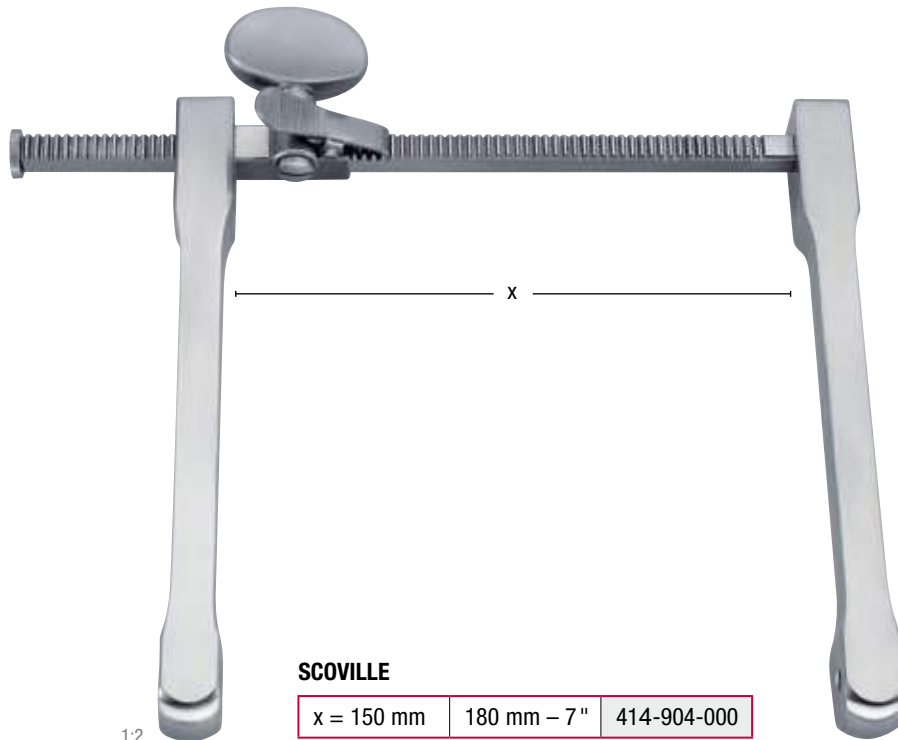
Laminektomiesperrer

Laminectomy retractors

Ecarteurs pour laminectomie

Separadores para laminectomía

Divaricatori per laminectomia



Wundhaken

Retractors

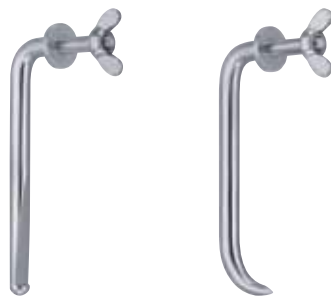
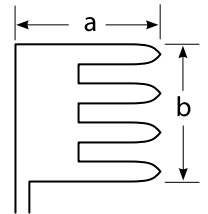
Laminektomiesperrer

Laminectomy retractors

Ecarteurs pour laminectomie

Separadores para laminectomía

Divaricatori per laminectomia



SCOVILLE

50 mm – 2"	414-902-010	414-902-060
70 mm – 2 3/4"	414-902-020	414-902-070

stumpf
blunt
mousse
romo
smusso

spitz
sharp
pointu
aguda
acuta



TAYLOR

a = 48 mm – b = 50 mm – 2" x 2"	414-902-410
a = 63 mm – b = 50 mm – 2 1/2" x 2"	414-902-420
a = 64 mm – b = 64 mm – 3 1/4" x 2 1/4"	414-902-430
a = 80 mm – b = 57 mm – 3" x 2"	414-902-440



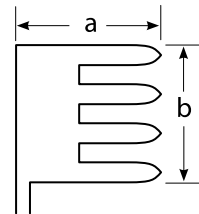
SCOVILLE

a = 40 mm – b = 37 mm – 1 1/2" x 1 1/2"	414-902-460
a = 65 mm – b = 44 mm – 2 1/2" x 1 3/4"	414-902-470



TAYLOR

a = 75 mm – b = 32 mm – 3" x 1 1/4"	414-902-532
a = 100 mm – b = 42 mm – 4" x 1 2/3"	414-902-542

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

MEYERDING

a = 57 mm – b = 25 mm – 2¼" x 1"	414-902-557
a = 76 mm – b = 25 mm – 3" x 1"	414-902-576
a = 88 mm – b = 51 mm – 3½" x 2"	414-902-588


SCOVILLE

a = 64 mm – b = 25 mm – 2½" x 1"	414-902-110
a = 64 mm – b = 50 mm – 2½" x 2"	414-902-120
a = 88 mm – b = 25 mm – 3½" x 1"	414-902-130


EPSTEIN

1:2

a = 56 mm – b = 25 mm – 2¼" x 1"	414-902-656
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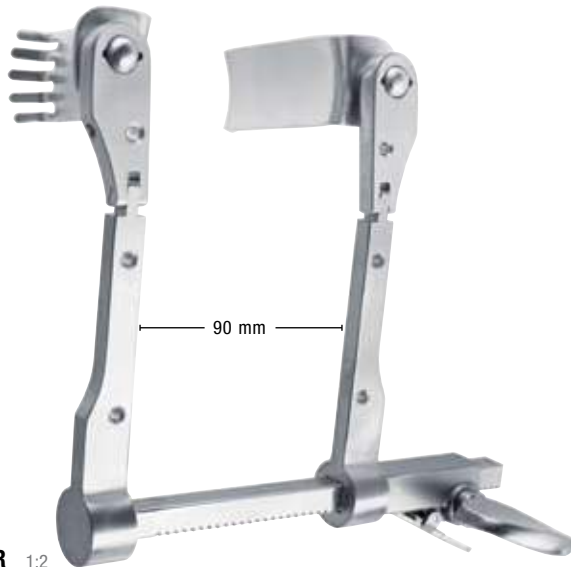

HIBBS

a = 50 mm – b = 20 mm – 2" x ¾"	414-903-001
a = 50 mm – b = 25 mm – 2" x 1"	414-903-002
a = 50 mm – b = 50 mm – 2" x 2"	414-903-003
a = 63 mm – b = 25 mm – 2½" x 1"	414-903-004
a = 63 mm – b = 37 mm – 2½" x 1½"	414-903-005
a = 76 mm – b = 25 mm – 3" x 1"	414-903-006
a = 76 mm – b = 38 mm – 3" x 1½"	414-903-007
a = 76 mm – b = 50 mm – 3" x 2"	414-903-008
a = 76 mm – b = 63 mm – 3" x 2½"	414-903-009
a = 90 mm – b = 25 mm – 3½" x 1"	414-903-010
a = 90 mm – b = 37 mm – 3½" x 1½"	414-903-011
a = 102 mm – b = 25 mm – 4" x 1"	414-903-012
a = 102 mm – b = 50 mm – 4" x 2"	414-903-013

Wundhaken Retractors

Laminektomiesperrer Laminectomy retractors

*Ecarteurs pour laminectomie
Separadores para laminectomía
Divaricatori per laminectomia*



CASPAR 1:2



1:2

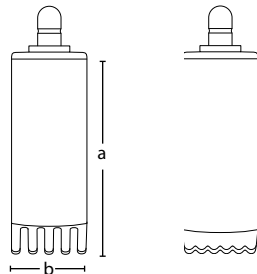
317-719-000	317-721-000
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**komplett mit 5 medial Valven 317-714-400 – 317-714-600
und mit 5 lateral Valven 317-715-400 – 317-715-600**
complete with 5 medial blades 317-714-400 – 317-714-600
and with 5 lateral blades 317-715-400 – 317-715-600
complet avec 5 valves médianes 317-714-400 – 317-714-600
et avec 5 valves latérales 317-715-400 – 317-715-600
completo con 5 valvas mediales 317-714-400 – 317-714-600
y con 5 valvas laterales 317-715-400 – 317-715-600
completo con 5 valve mediali 317-714-400 – 317-714-600
e con 5 valve laterali 317-715-400 – 317-715-600

komplett mit 5 Valven 317-712-450 – 317-712-650
complete with 5 blades 317-712-450 – 317-712-650
complet avec 5 valves 317-712-450 – 317-712-650
completo con 5 valvas 317-712-450 – 317-712-650
completo con 5 valve 317-712-450 – 317-712-650

317-719-120	317-721-110
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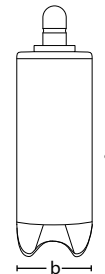
Sperrer ohne Valven
Retractor without blades
Ecarteur sans valves
Separador sin valvas
Divaricatore senza valve



CASPAR

	medial	lateral
a = 40 mm – b = 23 mm	317-714-400	317-715-400
a = 45 mm – b = 23 mm	317-714-450	317-715-450
a = 50 mm – b = 23 mm	317-714-500	317-715-500
a = 55 mm – b = 23 mm	317-714-550	317-715-550
a = 60 mm – b = 23 mm	317-714-600	317-715-600

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



CASPAR

a = 45 mm – b = 23 mm	317-712-450
a = 50 mm – b = 23 mm	317-712-500
a = 55 mm – b = 23 mm	317-712-550
a = 60 mm – b = 23 mm	317-712-600
a = 65 mm – b = 23 mm	317-712-650

stumpf
blunt
mousse
romo
smusso

Laminektomiesperrer

Laminectomy retractors

Ecarteurs pour laminectomie

Separadores para laminectomía

Divaricatori per laminectomia



CASPAR

317-729-001

komplett mit 5 Valven 317-712-450 – 317-712-650
complete with 5 blades 317-712-450 – 317-712-650
complet avec 5 valves 317-712-450 – 317-712-650
completo con 5 valvas 317-712-450 – 317-712-650
completo con 5 valve 317-712-450 – 317-712-650

317-729-002

Sperrer ohne Valven

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



317-729-012

Schlüssel

Key
Clé
Llave
Chiave

Wundhaken

Retractors

Laminektomiesperrer

Laminectomy retractors

Ecarteurs pour laminectomie

Separadores para laminectomía

Divaricatori per laminectomia

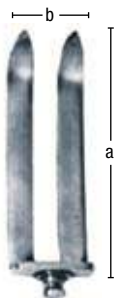


CASPAR

1:1

1:1

38 mm	58 mm
317-727-500	317-727-700



a = 35 mm – b = 22 mm	317-728-350
a = 40 mm – b = 22 mm	317-728-400
a = 45 mm – b = 22 mm	317-728-450
a = 50 mm – b = 22 mm	317-728-500
a = 55 mm – b = 22 mm	317-728-550
a = 60 mm – b = 22 mm	317-728-600
a = 65 mm – b = 22 mm	317-728-650
a = 70 mm – b = 22 mm	317-728-700

a = 35 mm – b = 37 mm	317-729-350
a = 40 mm – b = 37 mm	317-729-400
a = 45 mm – b = 37 mm	317-729-450
a = 50 mm – b = 37 mm	317-729-500
a = 55 mm – b = 37 mm	317-729-550
a = 60 mm – b = 37 mm	317-729-600
a = 65 mm – b = 37 mm	317-729-650
a = 70 mm – b = 37 mm	317-729-700

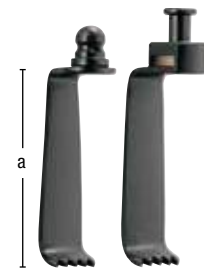
a = 35 mm – b = 52 mm	317-730-350
a = 40 mm – b = 52 mm	317-730-400
a = 45 mm – b = 52 mm	317-730-450
a = 50 mm – b = 52 mm	317-730-500
a = 55 mm – b = 52 mm	317-730-550
a = 60 mm – b = 52 mm	317-730-600
a = 65 mm – b = 52 mm	317-730-650
a = 70 mm – b = 52 mm	317-730-700

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

CASPAR 1:2

a = 40 mm	317-744-400
a = 45 mm	317-744-450
a = 50 mm	317-744-500
a = 55 mm	317-744-550
a = 60 mm	317-744-600
a = 65 mm	317-744-650
a = 75 mm	317-744-750
a = 85 mm	317-744-850


Mit schwarzer Oberfläche

 With black finish
 Avec finition noir
 Con color negro
 Con superficie nera

CASPAR

a = 35 mm	317-734-350	
a = 40 mm	317-734-400	317-741-400
a = 45 mm	317-734-450	317-741-450
a = 50 mm	317-734-500	317-741-500
a = 55 mm	317-734-550	317-741-550
a = 60 mm	317-734-600	317-741-600
a = 65 mm	317-734-650	317-741-650
a = 70 mm		317-741-700
a = 75 mm	317-734-750	
a = 85 mm	317-734-850	


CASPAR

317-734-010

1:2


Mit schwarzer Oberfläche

 With black finish
 Avec finition noir
 Con color negro
 Con superficie nera

Wundhaken

Retractors

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



Mit schwarzer Oberfläche
With black finish
Avec finission noir
Con color negro
Con superficie nera



x = 70 mm	339-797-700
x = 90 mm	339-797-900
x = 110 mm	339-798-100

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