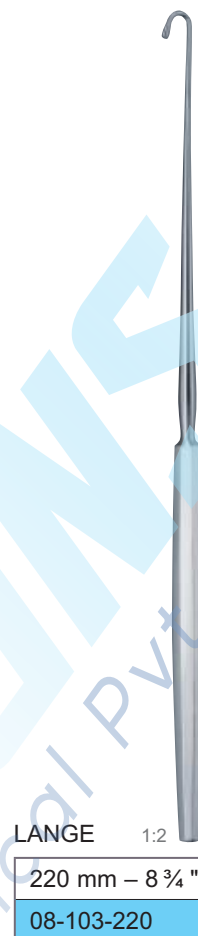


ROBUST SURGICAL RETRACTORS

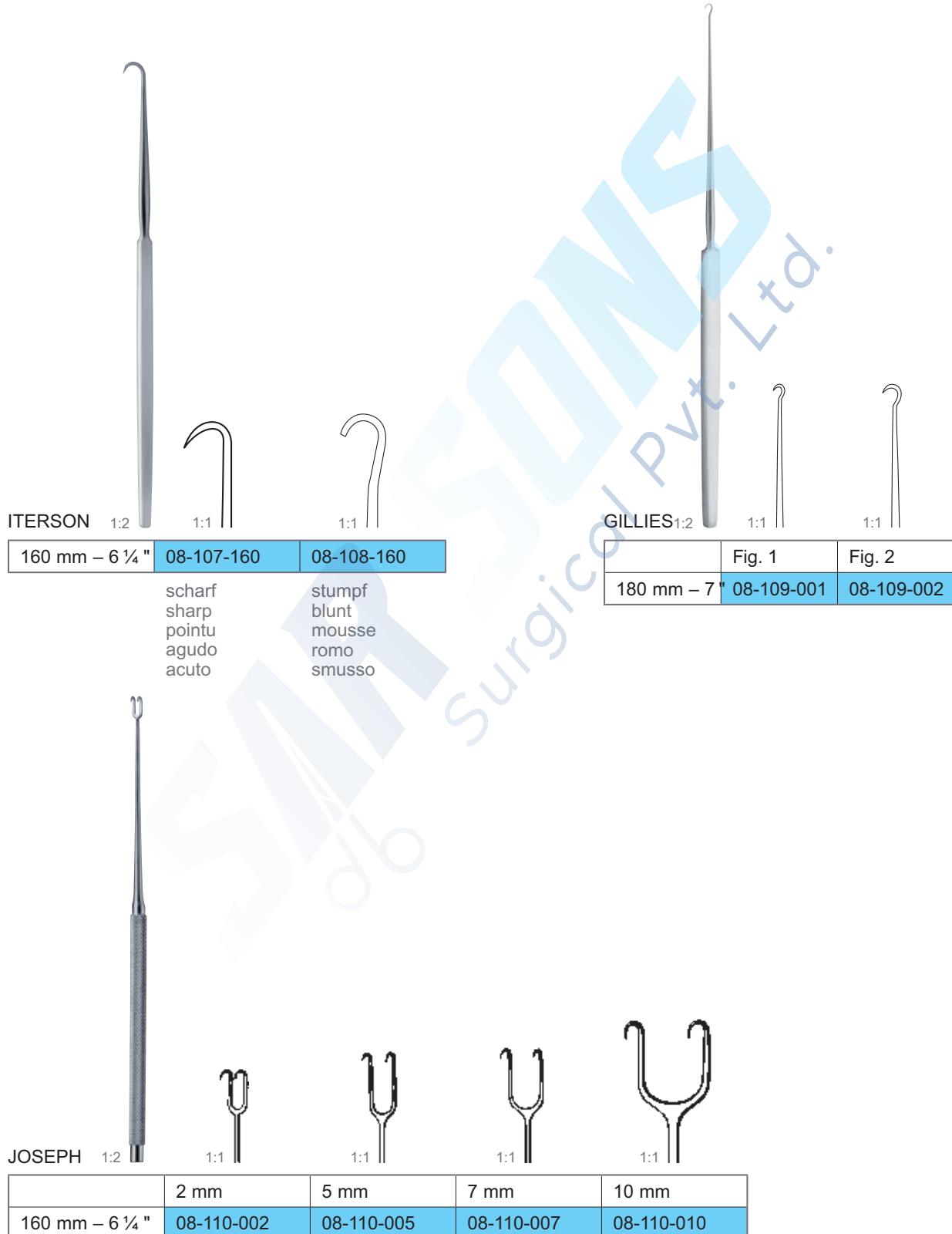
Expanding Your Surgical View



Nasenhäkchen
Nasal hooks
Crochets nasales
Ganchitos nasales
Uncini nasali



Nasenhäkchen
Nasal hooks
Crochets nasales
Ganchitos nasales
Uncini nasali



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 1/4" 08-112-160



COTTLE 1:2
150 mm – 6" 08-112-140 08-113-010 08-113-020



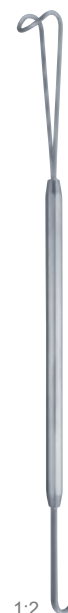
1:1



1:1



1:1



NEIVERT 1:2
160 mm – 6 1/4" 08-114-160

Nasen- und trachealhäkchen
Nose and trachea hooks

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



AUFRICT

1:2

160 mm – 6 1/4"	160 mm – 6 1/4"
08-115-160	08-116-160

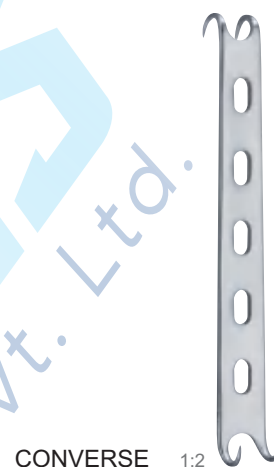
mit Kaltlichtaufsatz
with F.O. light carrier
avec support lumière froide
con guía de luz fría
con supporto per luce fredda



KILNER

1:2

100 mm – 4"	08-117-100
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CONVERSE

1:2

120 mm – 4 3/4"	08-118-120
-----------------	------------



COTTLE

1:2

1:2

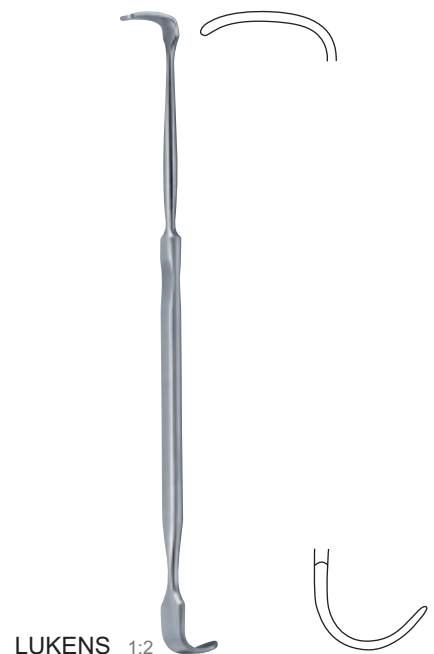
150 mm – 6"	08-119-150	08-120-150
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JACKSON

1:2

150 mm – 6"	08-121-150
-------------	------------



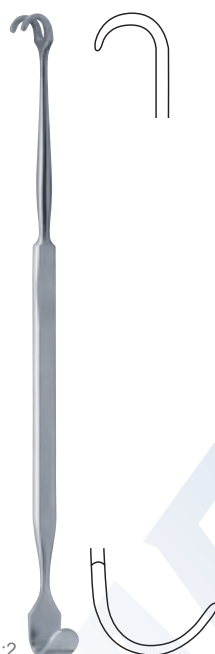
LUKENS

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
--------------	------------



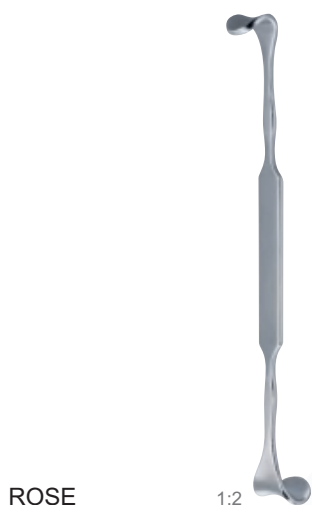
JACKSON 1:2

180 mm – 7 "	08-124-180	08-125-180
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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



1:1



1:1



1:1

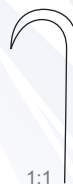


1:1



1:1

	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



1:1



1:1



1:1



1:1

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

scharf
sharp
pointu
agudo
acuto



1:1



1:1



1:1



1:1

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



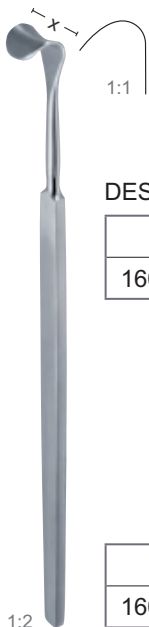
160 mm – 6 ¼ "	08-132-002	08-132-003	08-132-004
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flexibel, scharf
flexible, sharp
flexible, pointu
flexible, agudo
flessibile, acuto



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
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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
Ecarteurs
Separadores
Divaricatori

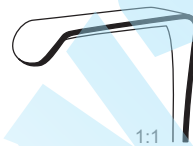


1:2

MINI-LANGENBECK



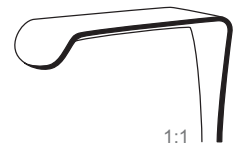
1:1



1:1



1:1



1:1

	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



1:1



1:2



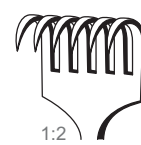
1:2



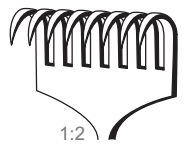
1:2



1:2



1:2

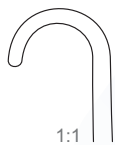


1:2

KOCHER

220 mm – 8 ¾ "	08-139-010	08-139-020	08-139-030	08-139-040	08-139-060	08-139-080
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scharf
sharp
pointu
agudo
acuto



1:1



1:2



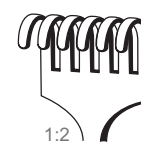
1:2



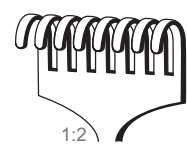
1:2



1:2



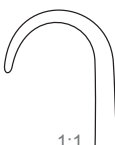
1:2



1:2

220 mm – 8 ¾ "	08-140-010	08-140-020	08-140-030	08-140-040	08-140-060	08-140-080
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stumpf
blunt
mousse
romo
smusso



1:1



1:2



1:2



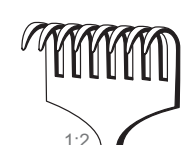
1:2



1:2



1:2



1:2

220 mm – 8 ¾ "	08-141-010	08-141-020	08-141-030	08-141-040	08-141-060	08-141-080
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halbscharf
semi-sharp
semi-pointu
semi-agudo
semi-acuto



1:2

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori

VOLKMANN:1	1:2	1:2	1:2	1:2	1:2
215 mm – 8 ½ "	08-142-001	08-142-002	08-142-003	08-142-004	08-142-006

scharf
sharp
pointu
agudo
acuto

1:1	1:2	1:2	1:2	1:2	1:2
215 mm – 8 ½ "	08-143-001	08-143-002	08-143-003	08-143-004	08-143-006

stumpf
blunt
mousse
romo
smusso

1:1	1:2	1:2	1:2	1:2	1:2
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



1:2

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



1:2

VOLKMANN

215 mm – 8 ½ "

08-145-010

scharf
sharp
pointu
agudo
acuto

1:1

08-146-010

stumpf
blunt
mousse
romo
smusso

1:1



1:2

1:1

SENN-MUELLER

160 mm – 6 ¼ "

08-147-160

scharf
sharp
pointu
agudo
acuto

1:1

08-148-160

stumpf
blunt
mousse
romo
smusso

1:1



1:2

1:1

KILNER

155 mm – 6 "

08-149-155

1:1

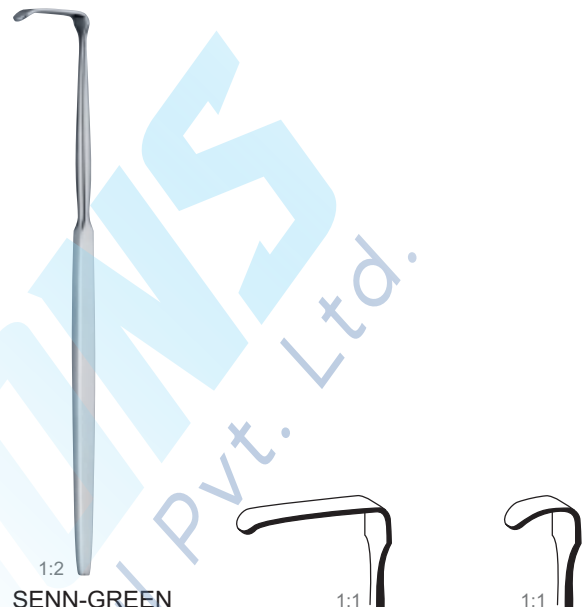
Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



1:2
**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



1:2
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

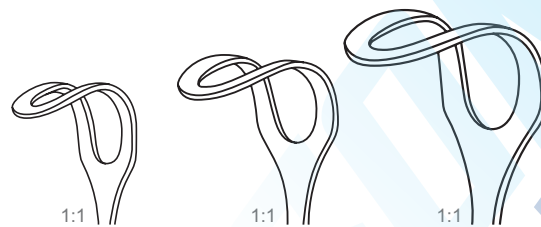
150 mm – 6 "
08-153-140



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



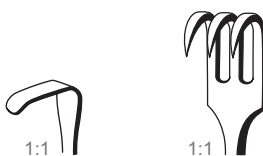
MEYERDING



	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



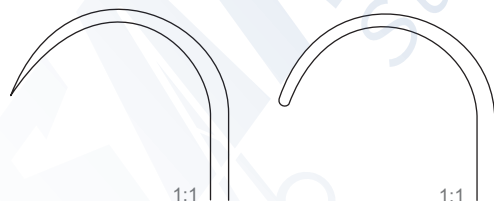
	10 mm x 3 mm	10 mm x 4 mm
180 mm – 7 "	08-157-050	08-157-060

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
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Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



ISRAEL

	a = 40 mm – b = 40 mm	a = 45 mm – b = 50 mm
250 mm – 9 ¾ "	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 – 9 ¾ "	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 – 8 ¾ "	08-161-010	08-161-020	08-161-030

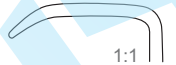
	Fig. 4	Fig. 5
	40 mm x 11 mm	50 mm x 11 mm
220 mm – 8 ¾ "	08-161-040	08-161-050

1:2

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



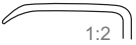
LANGENBECK

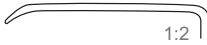
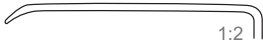
	 1:1	 1:1	 1:1
	Fig. 1	Fig. 2	Fig. 3
	30 mm x 11 mm	30 mm x 14 mm	30 mm x 16 mm
210 mm – 8 ¼ "	08-162-001	08-162-002	08-162-003

	 1:1	 1:1
	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)**

	 1:2	 1:2	 1:2	 1:2
	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

	 1:2	 1:2	 1:2
	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

	 1:2	 1:2
	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



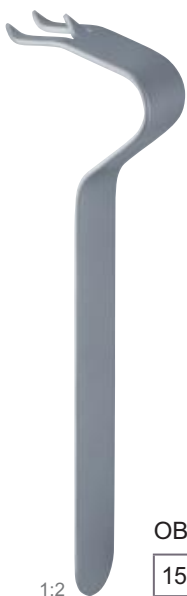
1:2

OBWEGESER

1:1

1:1

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



1:2

OBWEGESER

155 mm – 6 "	08-169-160
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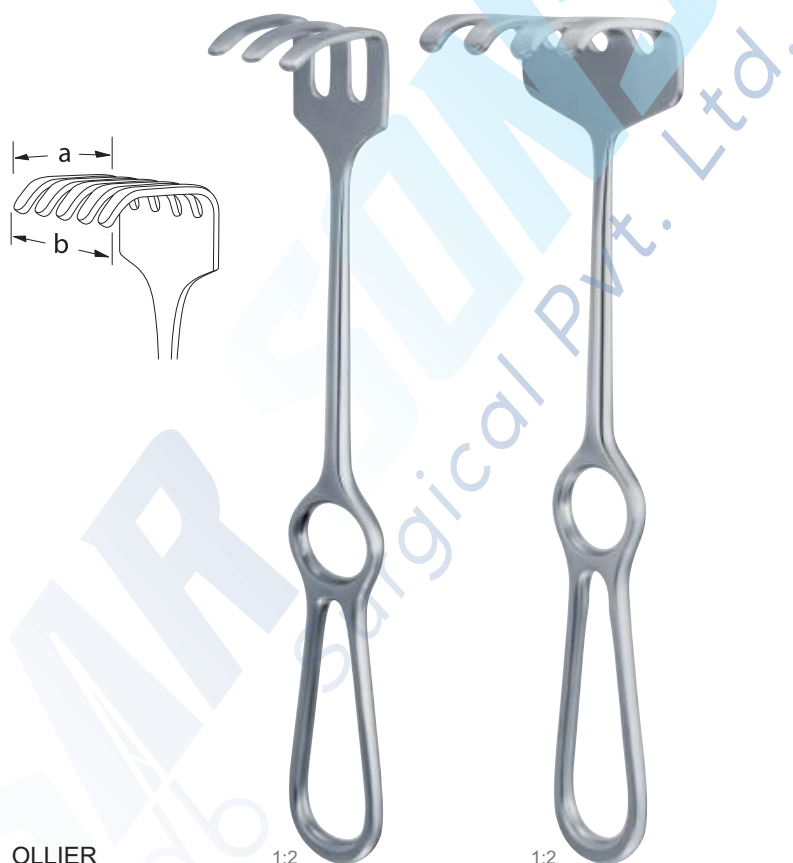
1:2

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

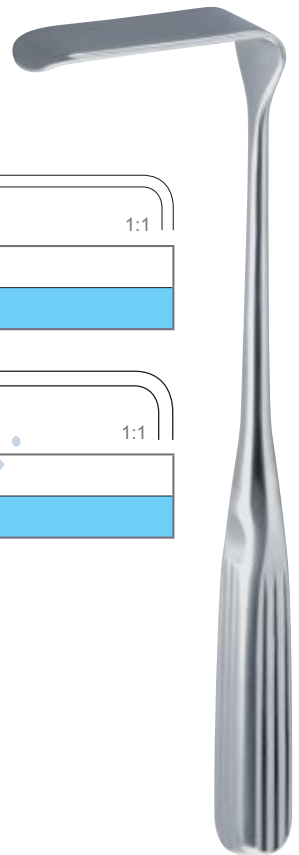
Griff vertikal zum Blatt
Handle vertical to the blade
Poignée verticale à la lame
Mango vertical a la hoja
Manico verticale verso la lama

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

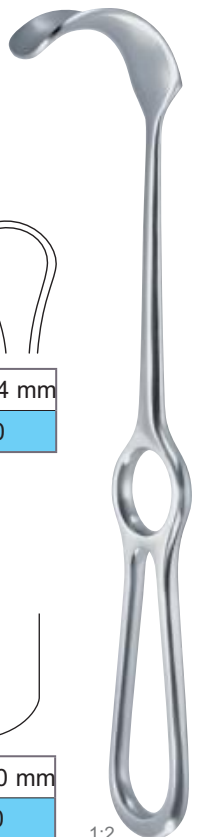
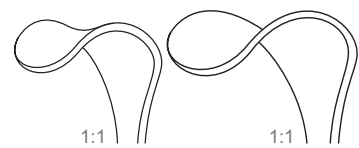
1:2



1:2

KOCHER

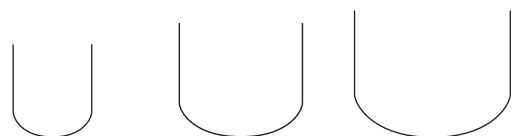
	19 mm x 12 mm	21 mm x 14 mm
190 mm – 7 ½ "	08-177-190	08-177-210



1:2

KOCHER

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



Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



KOCHER

1:1

1:1

	40 mm x 18 mm	60 mm x 20 mm
230 mm – 9 "	08-179-180	08-179-200



1:1



1:1

	60 mm x 25 mm	75 mm x 30 mm
230 mm – 9 "	08-179-250	08-179-300



1:1

	75 mm x 40 mm
230 mm – 9 "	08-179-400

1:2



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 – 9 ½ "	08-180-025	08-180-030	08-180-038

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



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



RICHARDSON

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



KELLY

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

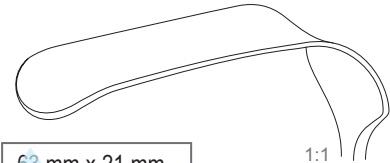
Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



1:2

HOESEL

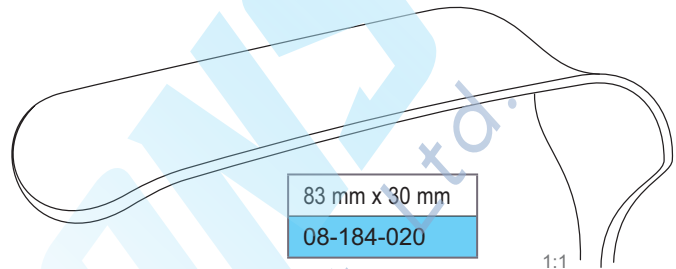
260 mm – 10 1/4"



1:1

63 mm x 21 mm

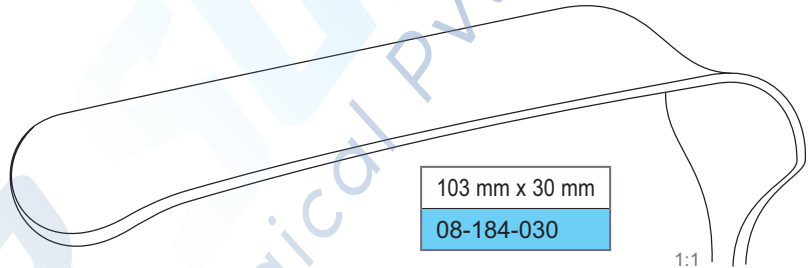
08-184-010



1:1

83 mm x 30 mm

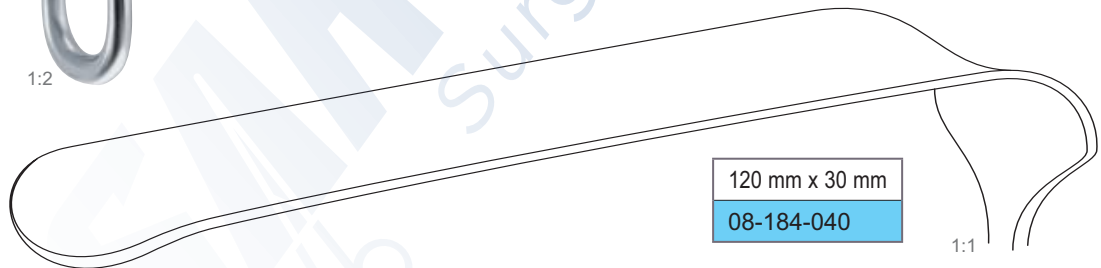
08-184-020



1:1

103 mm x 30 mm

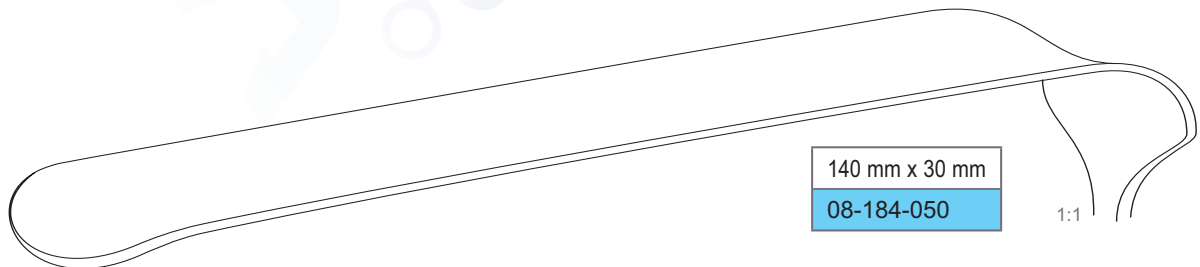
08-184-030



1:1

120 mm x 30 mm

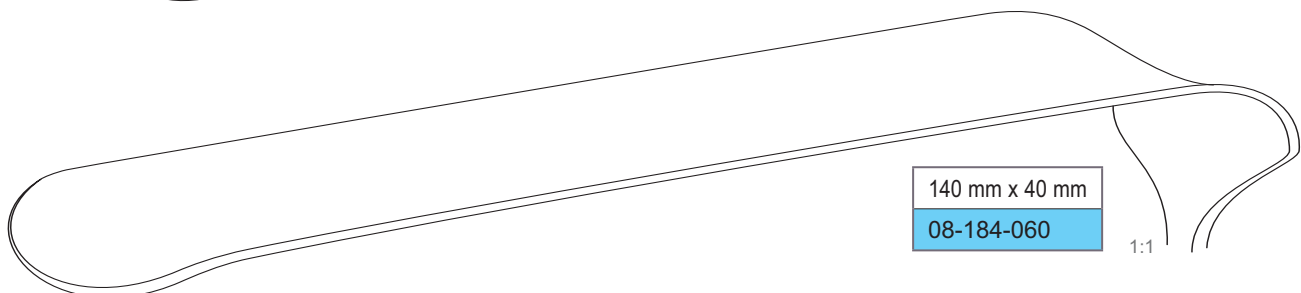
08-184-040



1:1

140 mm x 30 mm

08-184-050



1:1

140 mm x 40 mm

08-184-060

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori

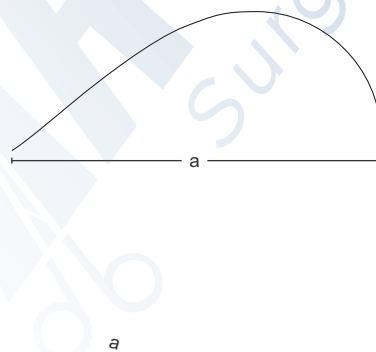


MEYERDING

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

1:1

1:1



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

1:1

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



1:3

SIMON

1:1

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



1:3

HARRINGTON

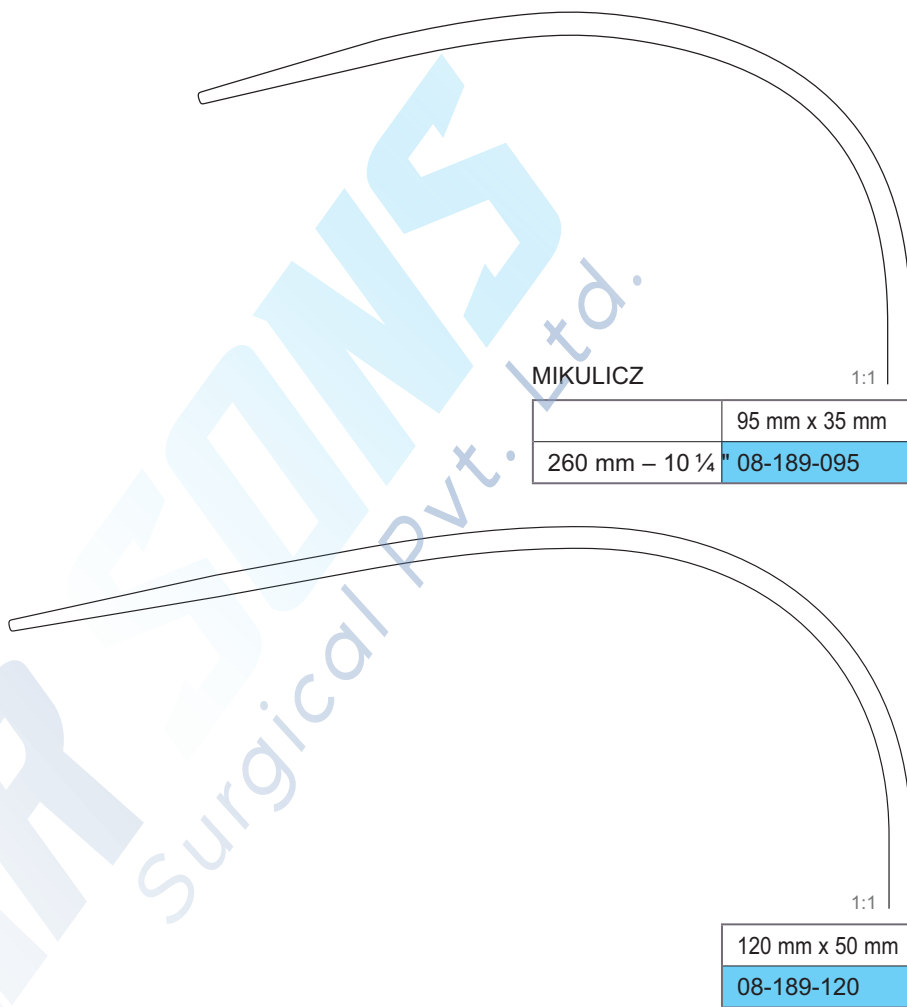
1:1

	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



1:2



MIKULICZ

1:1

	95 mm x 35 mm
260 mm – 10 1/4"	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

1:2

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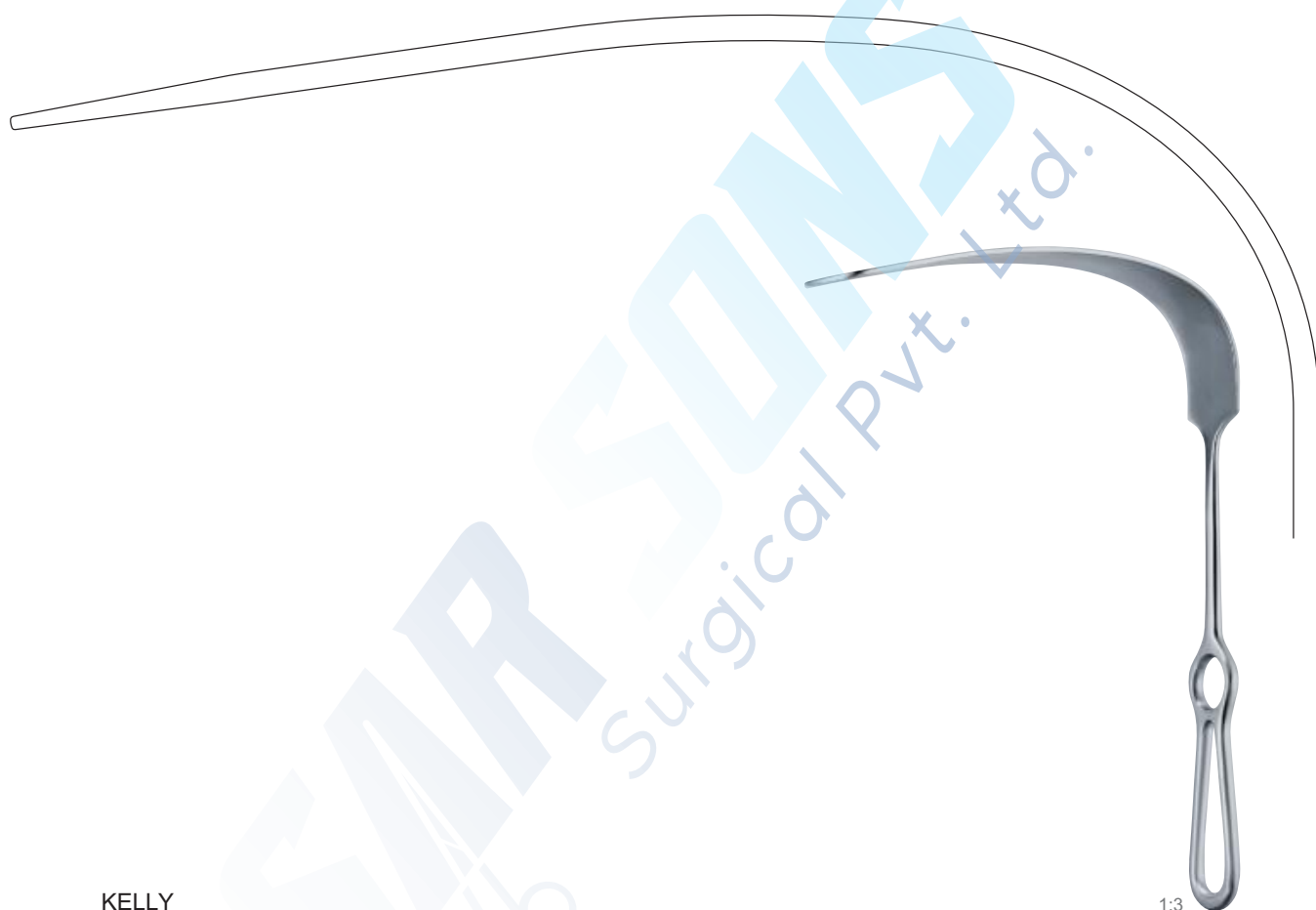


DAVIDSON

1:2

	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

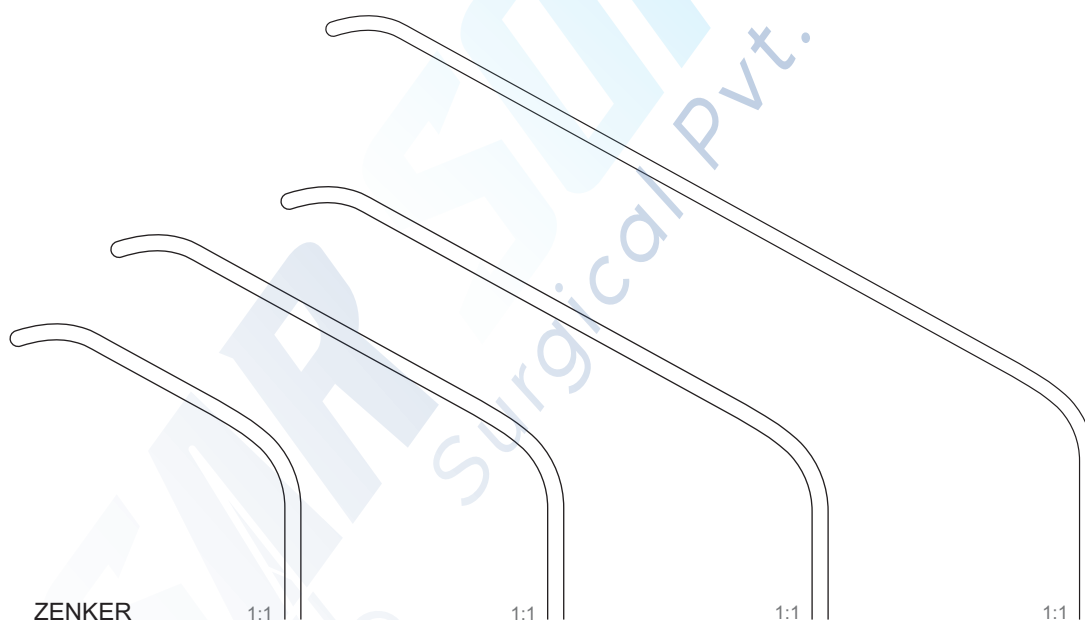
1:3

	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



1:2



ZENKER

1:1

1:1

1:1

1:1

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

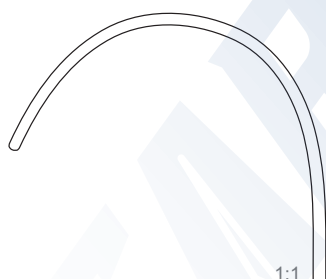
links
left
gauche
izquierda
sinistra

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori

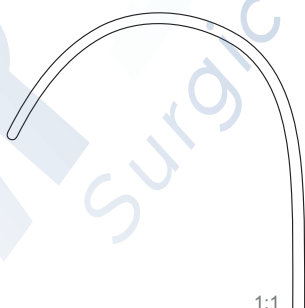


1:2

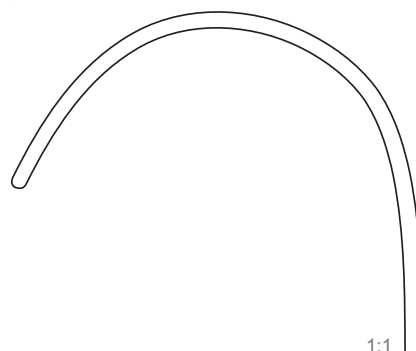
MIDDELDORPF



1:1



1:1



1:1

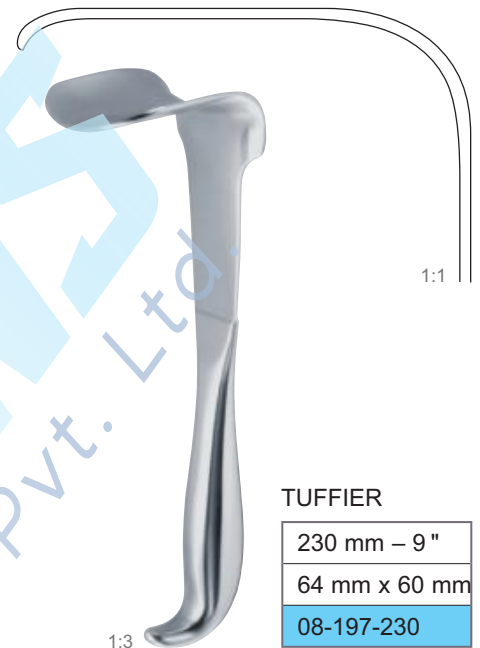
	45 mm x 45 mm	45 mm x 50 mm	55 mm x 70 mm
255 mm – 10 "	08-195-010	08-195-020	08-195-030

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

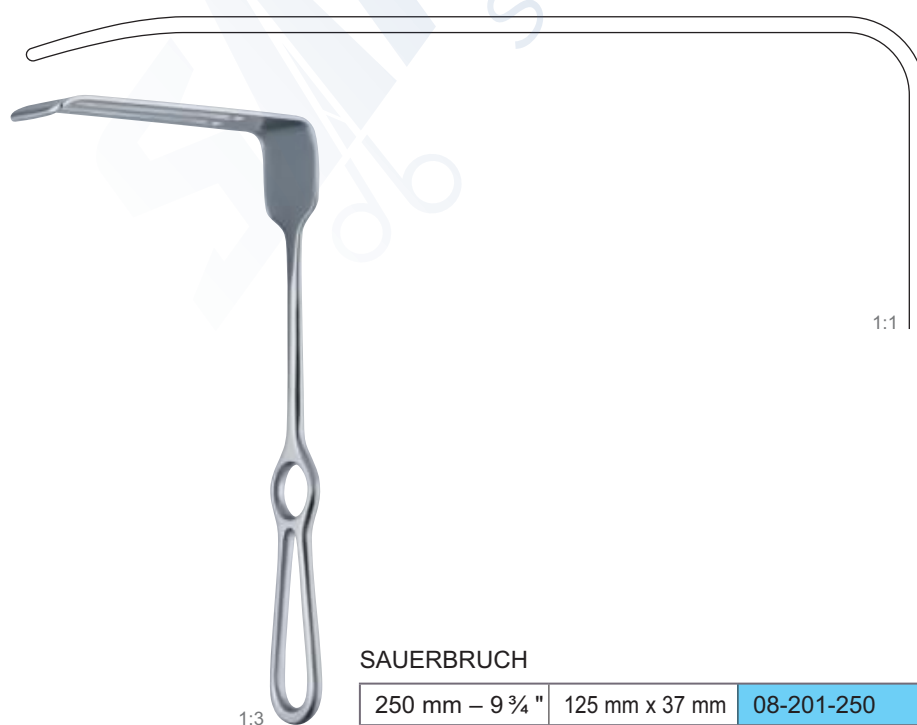
225 mm – 8 ¾ "
70 mm x 25 mm
08-198-220



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



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

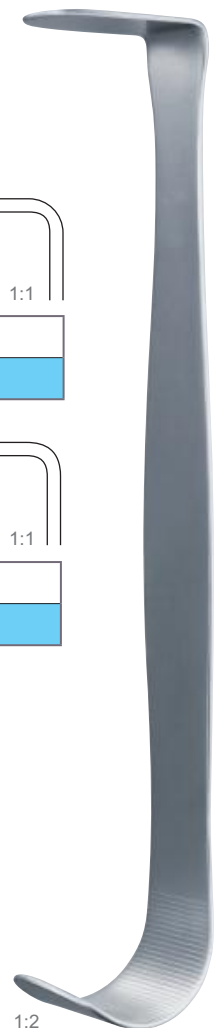
82 mm x 28 mm
08-202-820

CORYLLOS

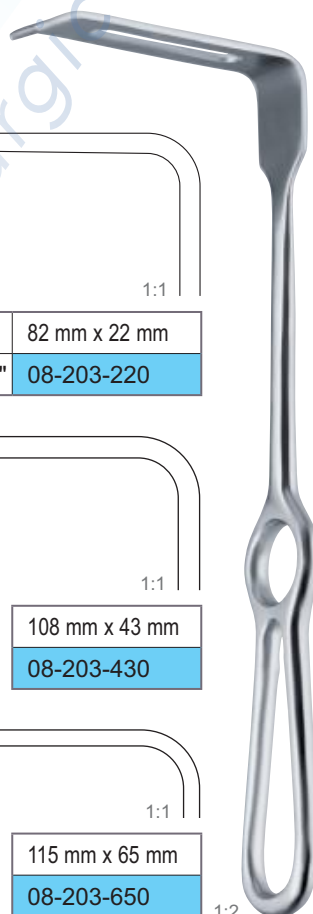
	82 mm x 22 mm
240 mm – 9 ½"	08-203-220

108 mm x 43 mm
08-203-430

115 mm x 65 mm
08-203-650



1:2



1:2

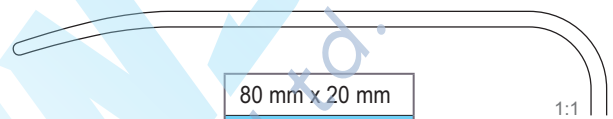
Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



BRUNNER

250 mm – 9 ¾"

1:2



80 mm x 20 mm

08-204-080

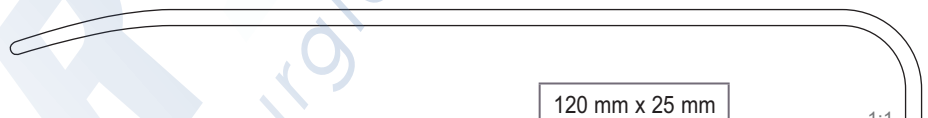
1:1



100 mm x 20 mm

08-204-100

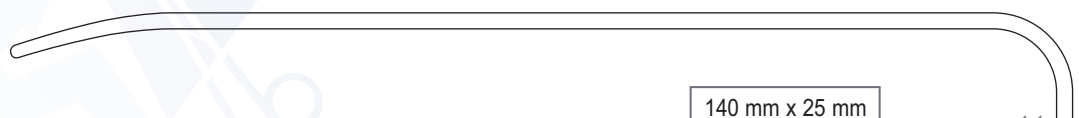
1:1



120 mm x 25 mm

08-204-120

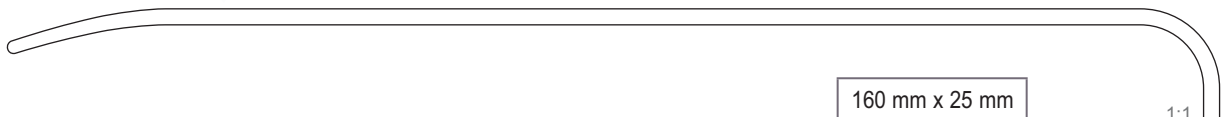
1:1



140 mm x 25 mm

08-204-140

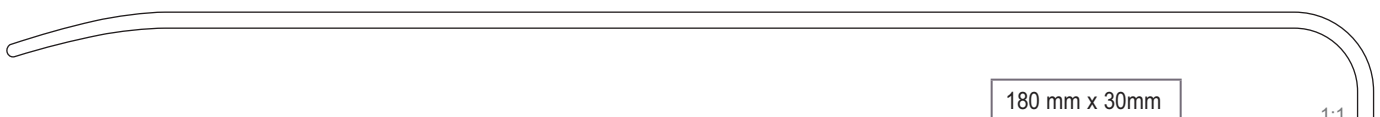
1:1



160 mm x 25 mm

08-204-160

1:1



180 mm x 30mm

08-204-180

1:1

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



BRUNNER

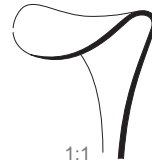
1:2

240 mm – 9 ½ "	142 mm x 25 mm	08-205-240
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Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori

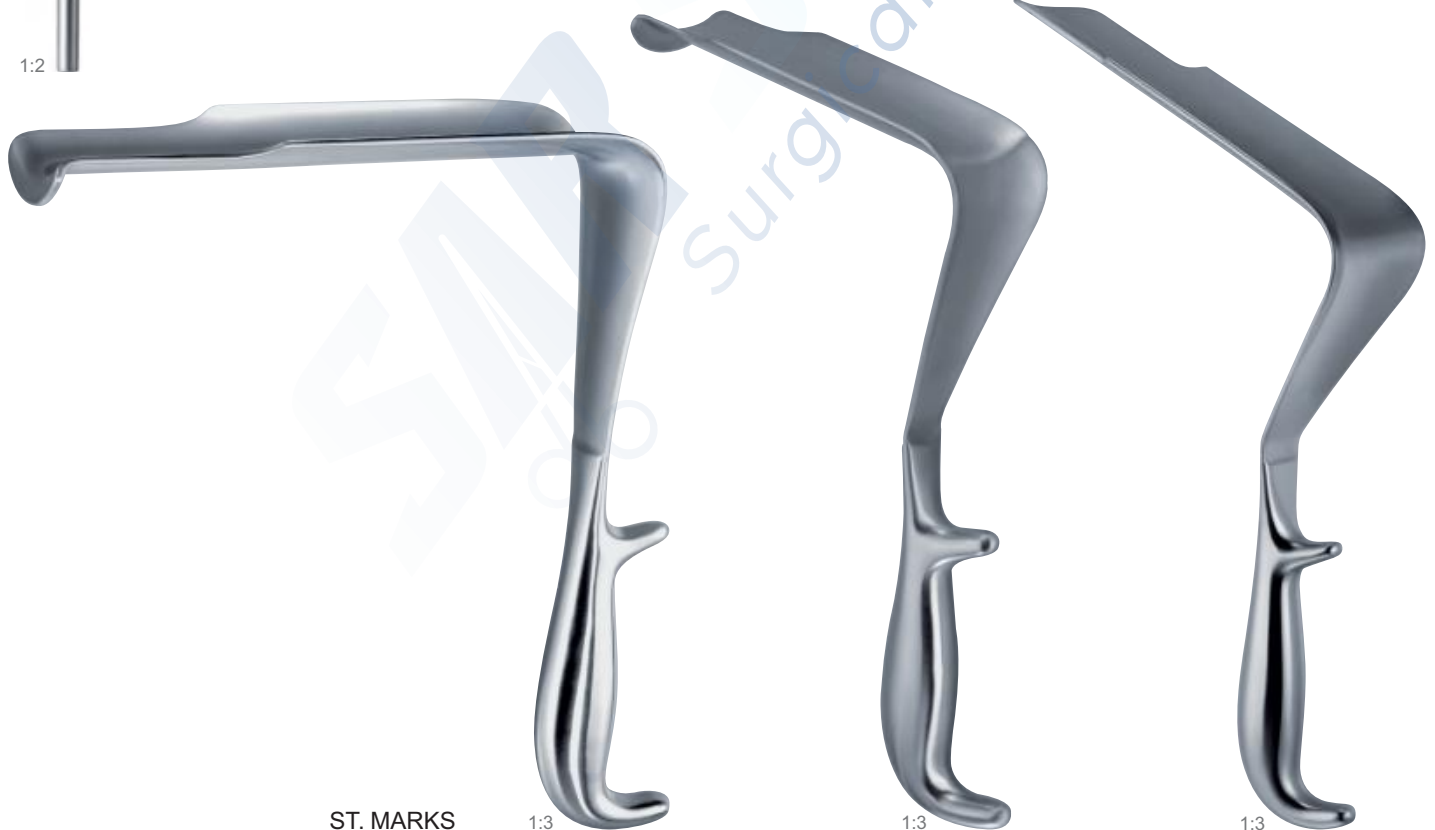


GIL-VERNET



	x = 8 mm	x = 11 mm	x = 15 mm	x = 17 mm	x = 20 mm	x = 23 mm
240 mm – 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

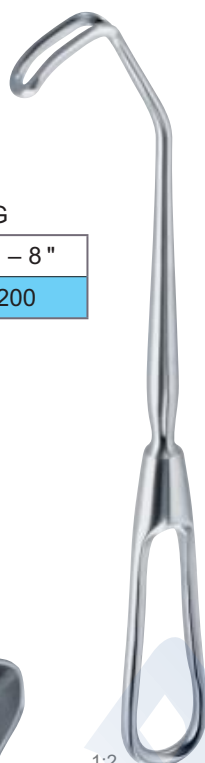
290 mm – 11 ½ "	325 mm – 12 ¾ "	330 mm – 13 "
130 mm x 60 mm	180 mm x 60 mm	180 mm x 60 mm
08-207-020	08-207-010	08-207-030

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori

CUSHING

200 mm – 8 "

08-208-200



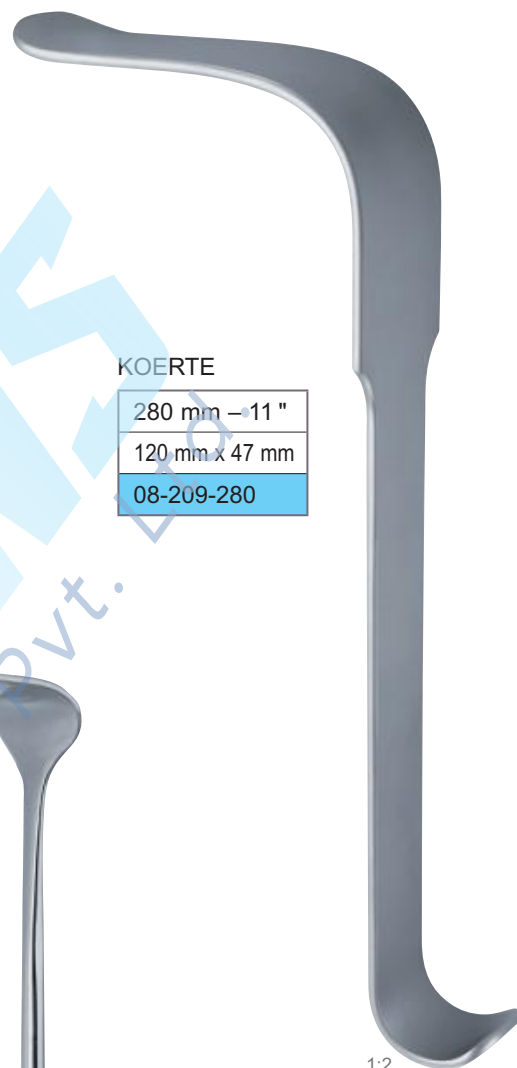
1:2

KOERTE

280 mm – 11 "

120 mm x 47 mm

08-209-280



1:2



MORRIS:2

210 mm – 8 ¼ "

50 mm x 55 mm

08-210-500



1:2

MORRIS

	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

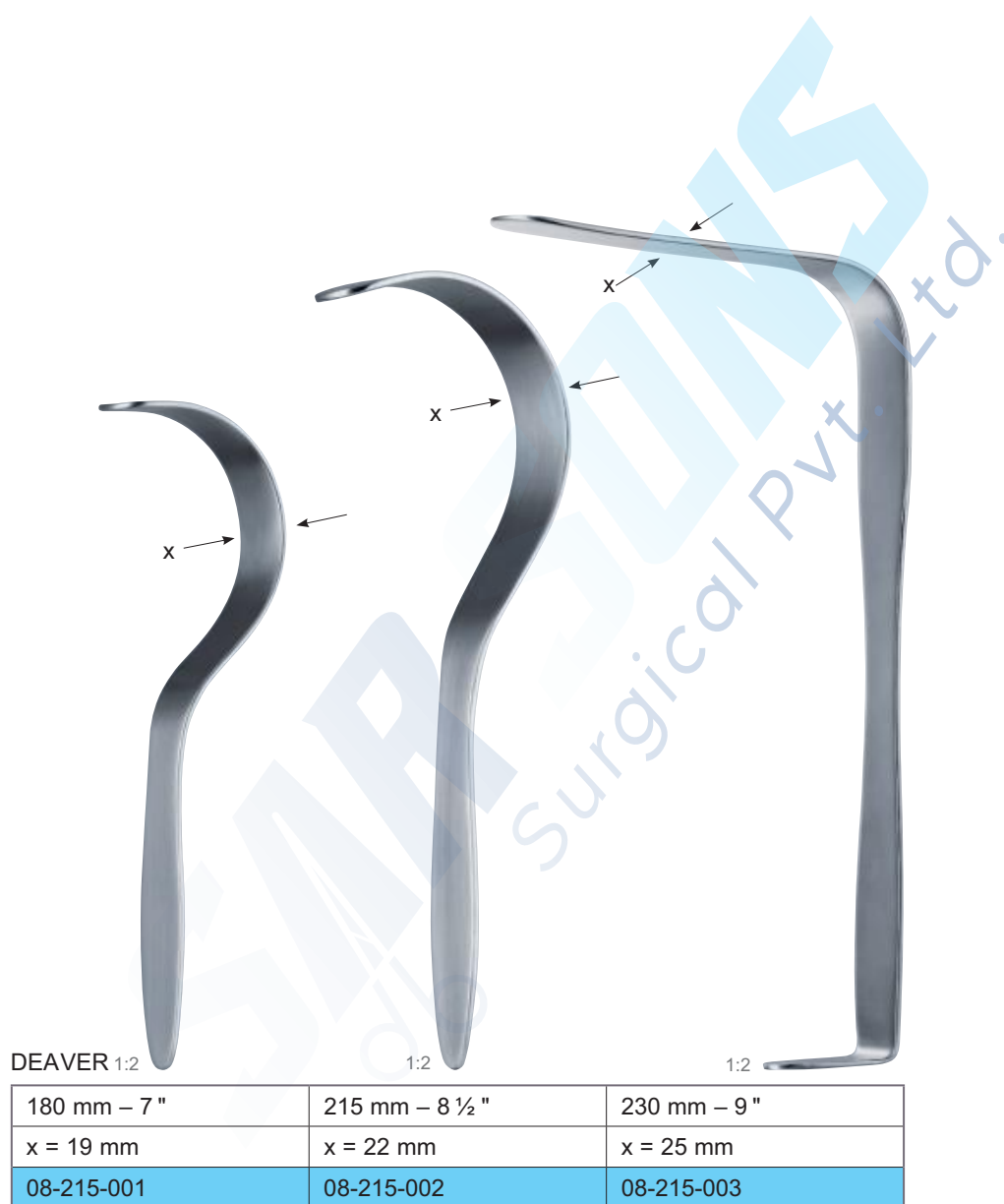


DEAVER

	x = 25 mm	x = 38 mm	x = 50 mm
315 mm – 12 1/2"	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



Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



ROUX

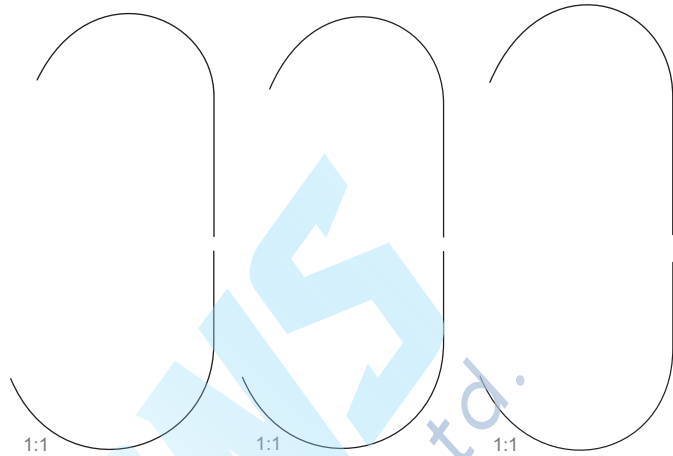


	Fig. 1	Fig. 2	Fig. 3
	140 mm – 5 ½ "	150 mm – 6 "	170 mm – 6 ¾ "
	24 mm x 20 mm	29 mm x 26 mm	33 mm x 29 mm
	30 mm x 28 mm	36 mm x 36 mm	38 mm x 43 mm
	08-216-001	08-216-002	08-216-003

08-216-000	x	x	x
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Satz
Set
Jeu
Juego
Serie



PARKER

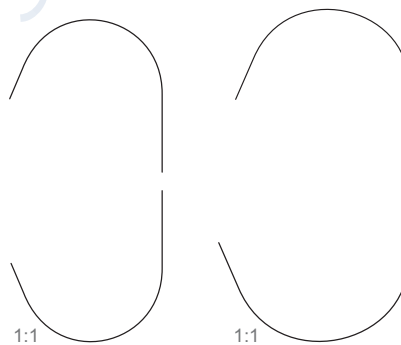
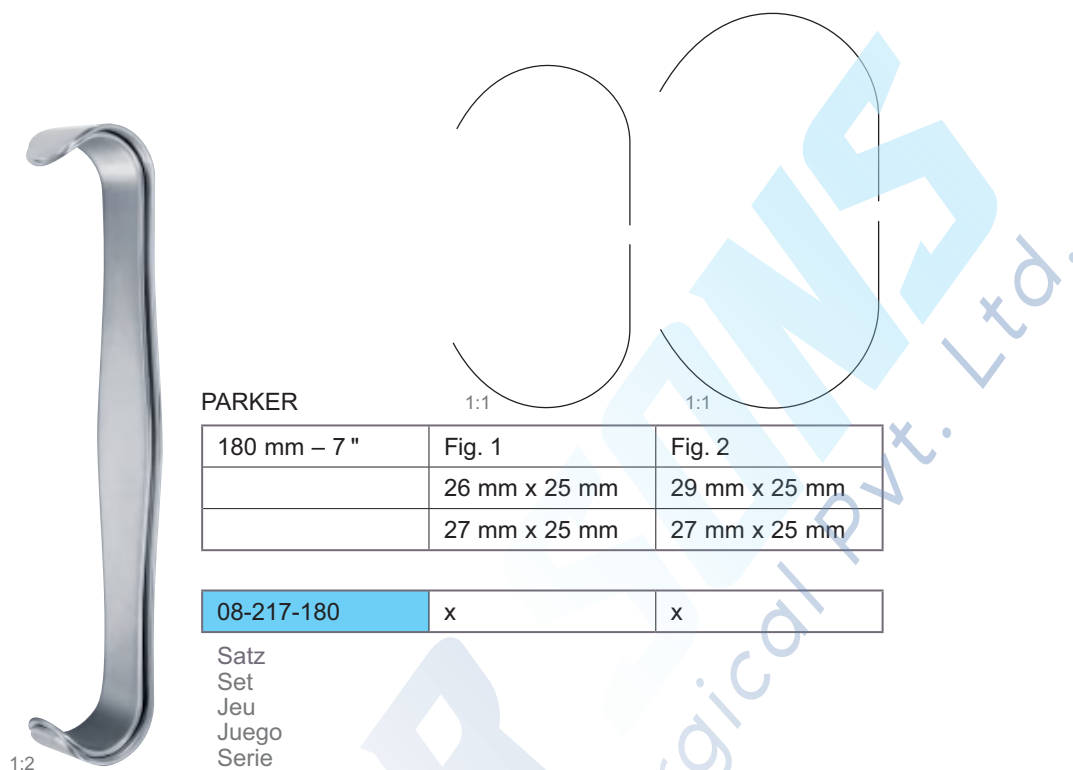


	Fig. 1	Fig. 2
	135 mm – 5 ¼ "	135 mm – 5 ¼ "
	18 mm x 15 mm	22 mm x 15 mm

08-217-130	x	x
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Satz
Set
Jeu
Juego
Serie

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori

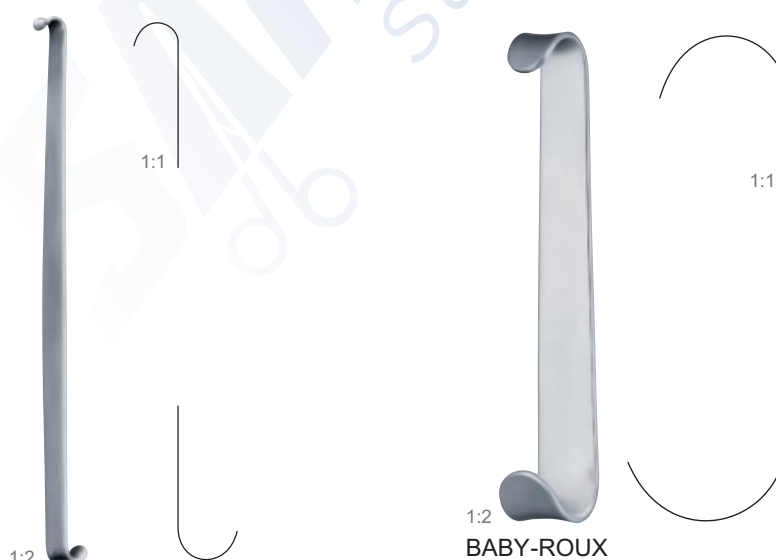


PARKER

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
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Satz
Set
Jeu
Juego
Serie



MINI-ROUX

145 mm – 5 ¾ "
8 mm x 6 mm
08-218-150

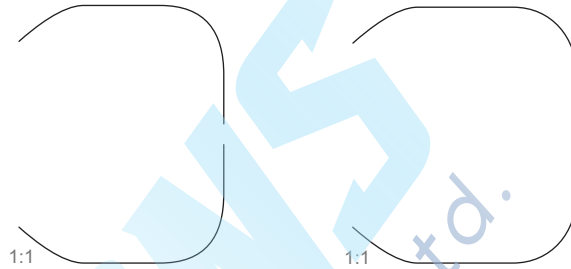
BABY-ROUX

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

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



MAYO-COLLIN



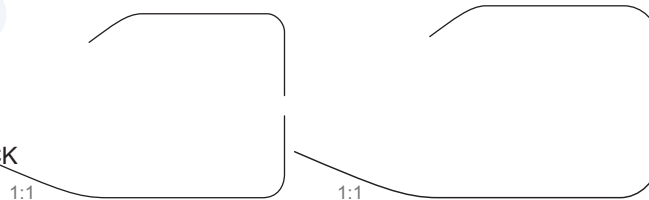
150 mm – 6 "	Fig. 1	Fig. 2
	25 mm x 18 mm	28 mm x 19 mm
	28 mm x 18 mm	32 mm x 19 mm

08-220-150	x	x
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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

08-221-000	x	x
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Satz
Set
Jeu
Juego
Serie

Wundhaken
Retractors
Ecarteurs
Separadores
Divaricatori



MATHIEU

1:1

1:1

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



FARABEUF

1:1

1:1

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
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Satz
Set
Jeu
Juego
Serie

1:2



FARABEUF

1:1

1:1

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
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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
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HOLTZHEIMER

100 mm – 4 "	08-228-100	08-229-100
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scharf
sharp
pointu
agudo
acuto

stumpf
blunt
mousse
romo
smusso



JANSEN 1:2

100 mm – 4 "	08-230-100	08-231-100
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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: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

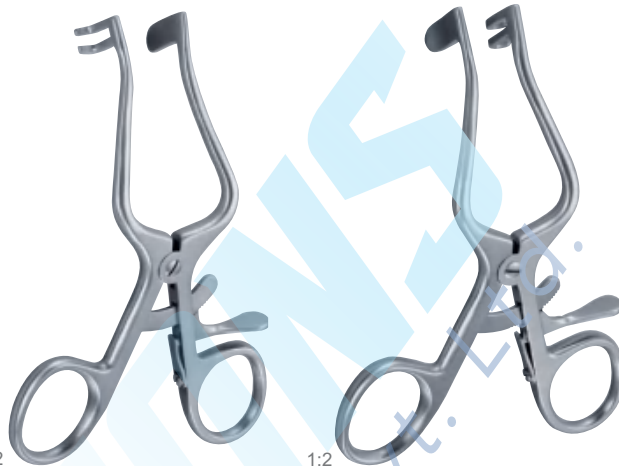
130 m – 5 "	08-235-130	08-236-130
3 x 3 scharf sharp pointu agudo acuto		3 x 3 stumpf blunt mousse romo smusso



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

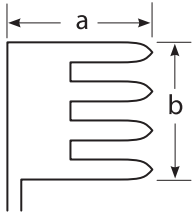
110 mm – 4 ¼ "	08-238-110	08-239-110
1 x 2 links, stumpf left, blunt gauche, mousse izquierda, romo sinistra, smusso		1 x 2 rechts, stumpf right, blunt droit, mousse derecha, romo destra, smusso



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

PLESTER



1:2

110 mm – 4 1/4"	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



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



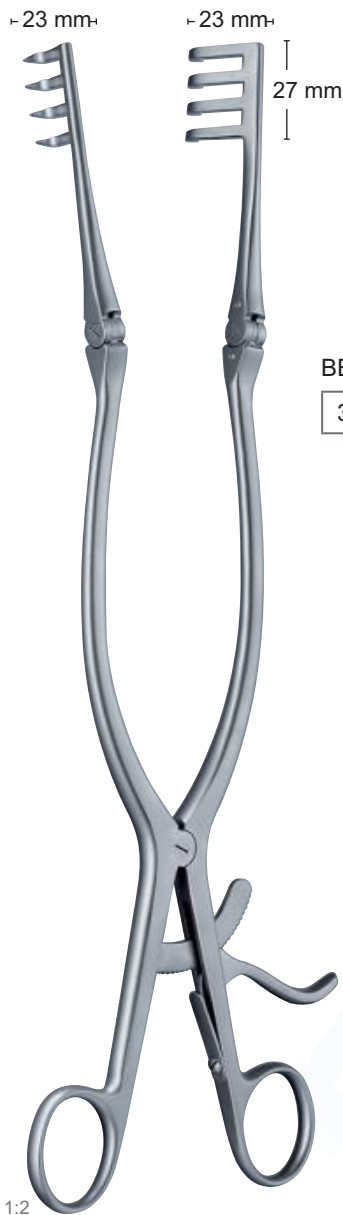
1:2

BECKMANN-EATON

320 mm – 12 ½ "
08-266-320

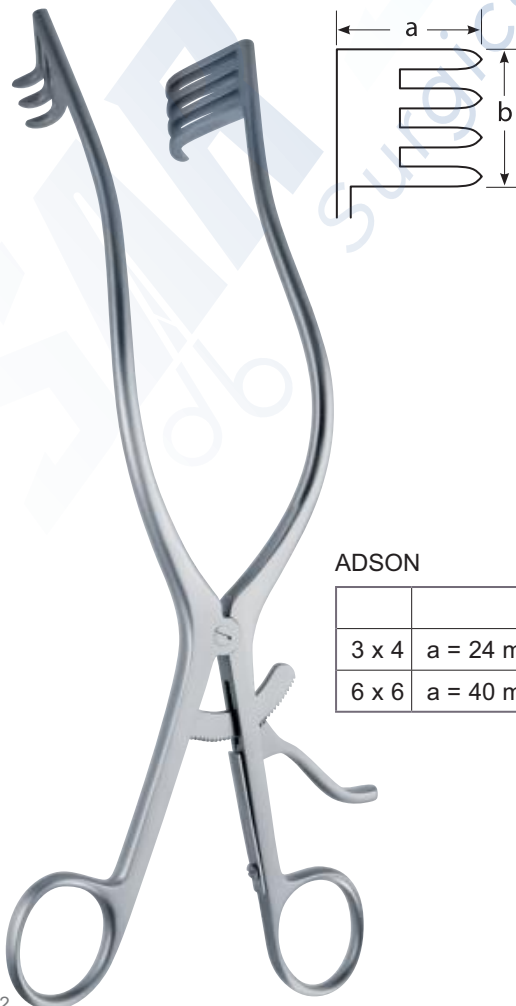
7 x 7
scharf
sharp
pointu
agudo
acuto

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



BECKMANN-ADSON

310 mm – 12 1/4" 08-272-000

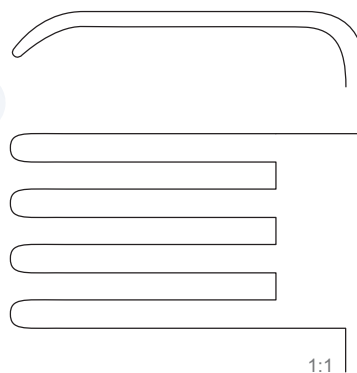
stumpf
blunt
mousse
romo
smusso

1:1

08-272-010

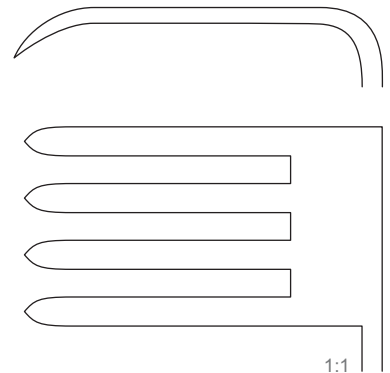
scharf
sharp
pointu
agudo
acuto

1:1



08-272-020

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



08-272-030

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 – 5 ½"	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
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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
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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
08-280-190	08-280-250	08-280-320

Mittelvalven
Center blades
Valves centrales
Valvas centrales
Valve centrali

bauchdeckenhalter
Abdominal retractors

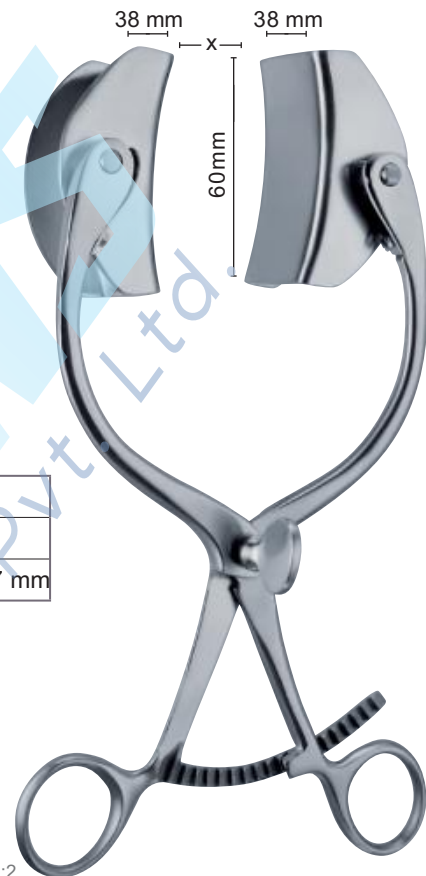
Ecarteurs abdominaux
Separadores abdominales
Divaricatori addominali



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
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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
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



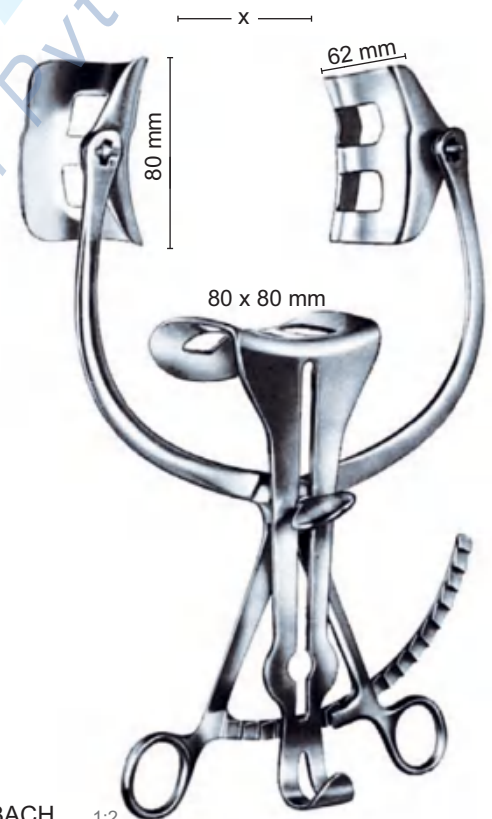
COLLIN 1:2

260 mm – 10 ½"		
x = 160 mm		
08-285-000	60 mm x 80 mm	60 mm x 75 mm

komplett mit
complete with
complet avec
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		
08-286-000	62 mm x 80 mm	80 mm x 80 mm

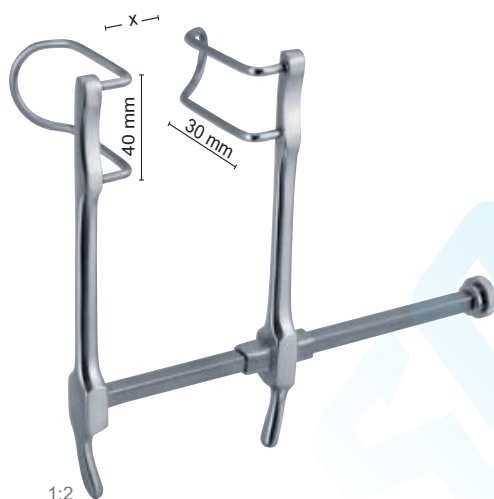
komplett mit
complete with
complet avec
completo con

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

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
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		
08-290-000	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		
08-291-000	35 mm x 70 mm	45 mm x 80 mm

komplett mit
complete with
complet avec
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

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

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
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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

08-295-300	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



O'SULLIVAN-
O'CONNOR

1:3

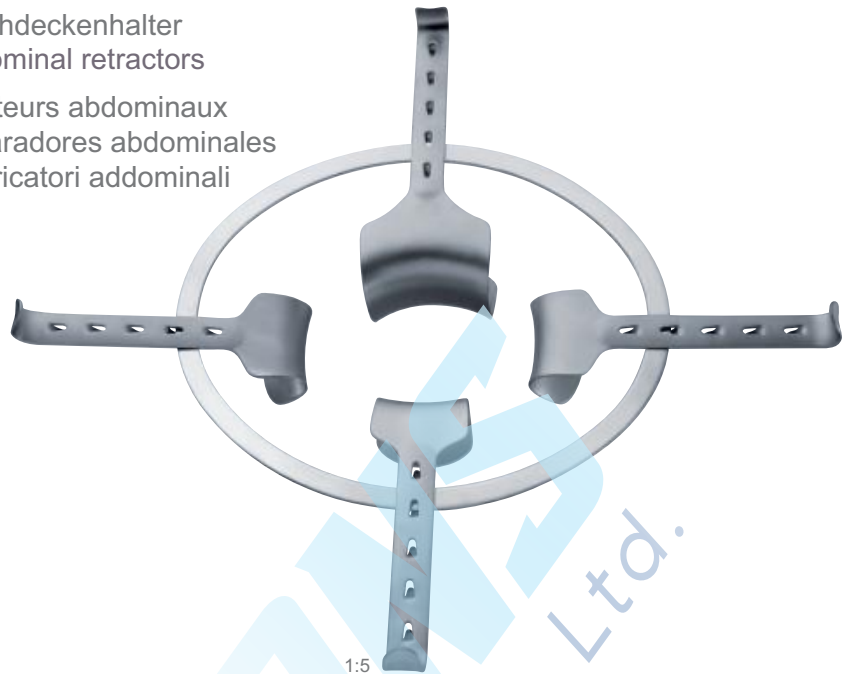
08-296-000	45 mm x 90 mm	70 mm x 100 mm
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komplett mit
complete with
complet avec
completo con
completo con

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

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	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

08-300-000	x	x	x	x	x
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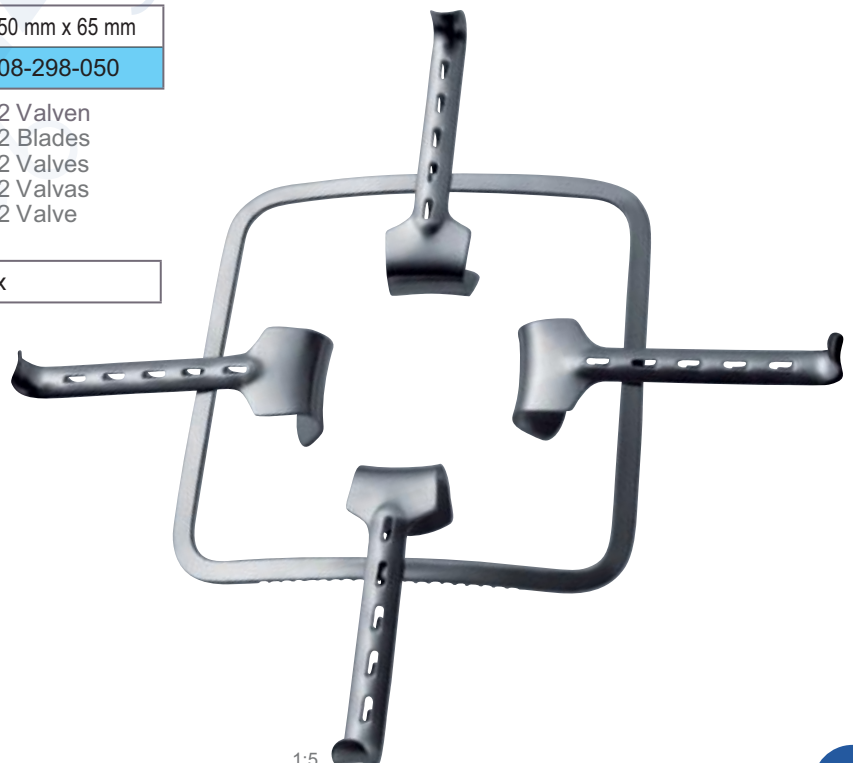
Satz
Set
Jeu
Juego
Serie

KIRSCHNER

240 mm x 240 mm	40 mm x 55 mm	50 mm x 65 mm
08-301-000	08-298-040	08-298-050
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

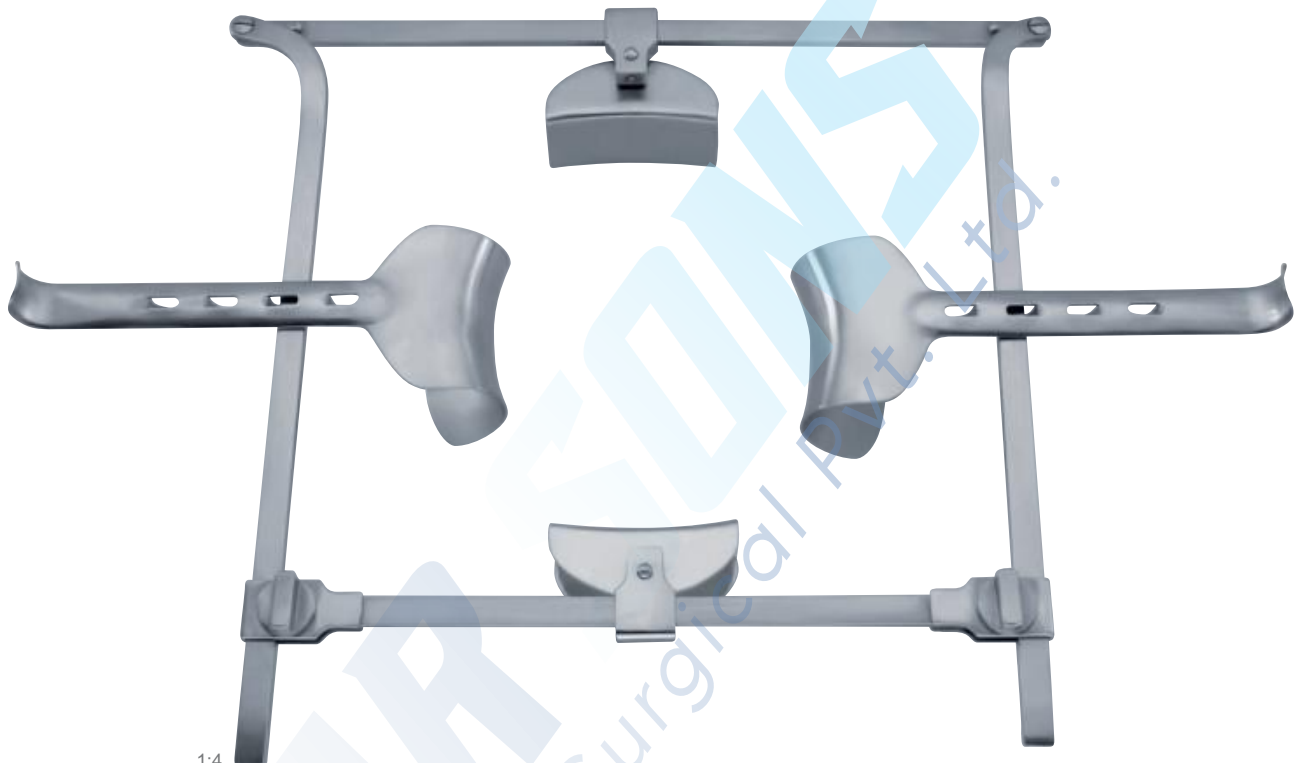
08-302-000	x	x	x
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Satz
Set
Jeu
Juego
Serie



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	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

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

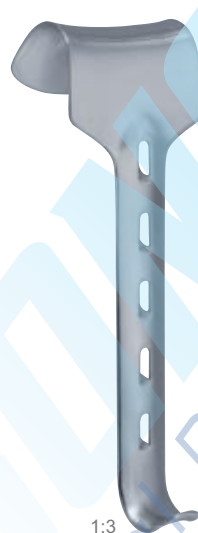
1:3



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
08-305-380	08-305-450	08-298-040	08-298-050

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
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 – 9 ¾"	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, 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
08-311-170	08-311-250	08-311-370

biegsam
malleable
malléable
maleable
flessibile



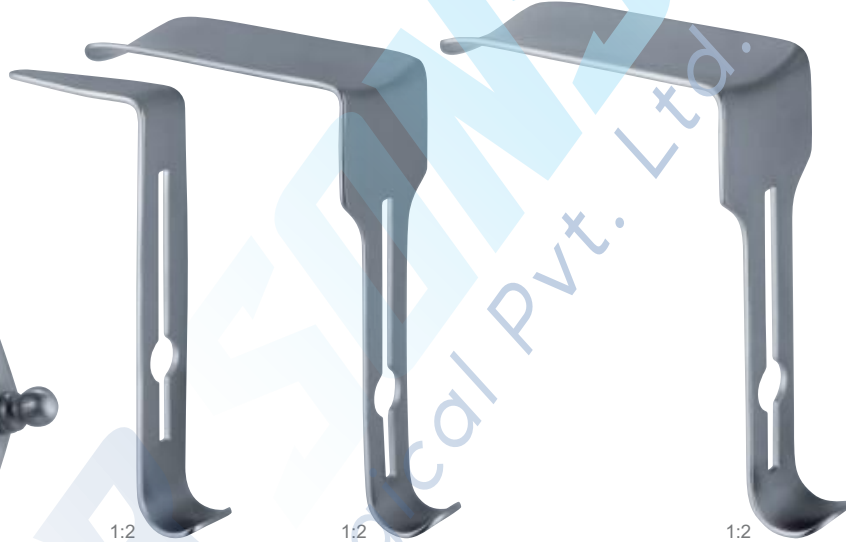
REVERDIN

1:2

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

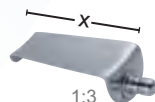
komplett mit je 2 Valven Fig. 1 - Fig. 5
complete with 2 blades ea. Fig. 1 - Fig. 5
complet avec 2 valves chacune Fig. 1 - Fig. 5
completo con 2 valvas de cada Fig. 1 - Fig. 5
completo con 2 valve Fig. 1 - Fig. 5

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

08-316-010	08-317-010
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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



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

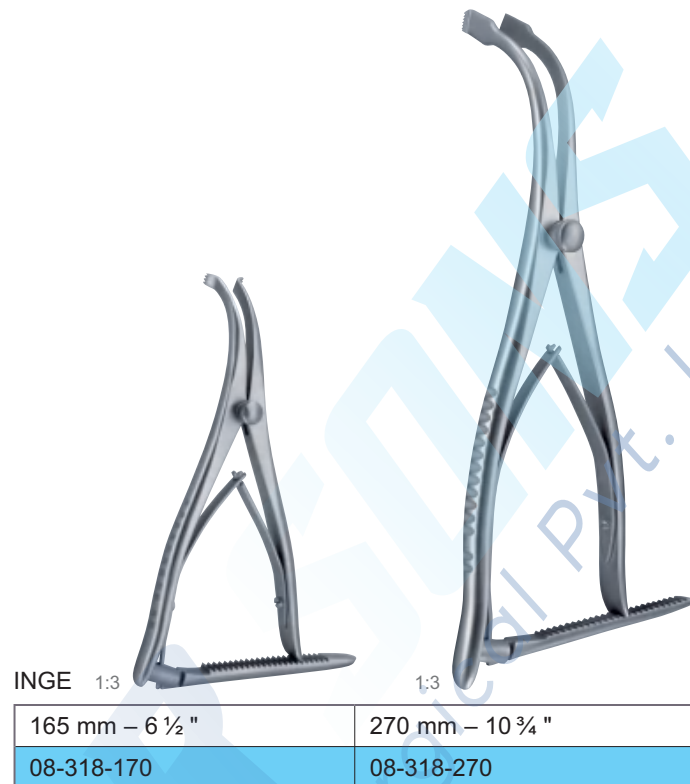


x = 40 mm	08-317-400
x = 45 mm	08-317-450
x = 50 mm	08-317-500
x = 55 mm	08-317-550
x = 60 mm	08-317-600

gezahnt
toothed
dentelée
dentada
dentata

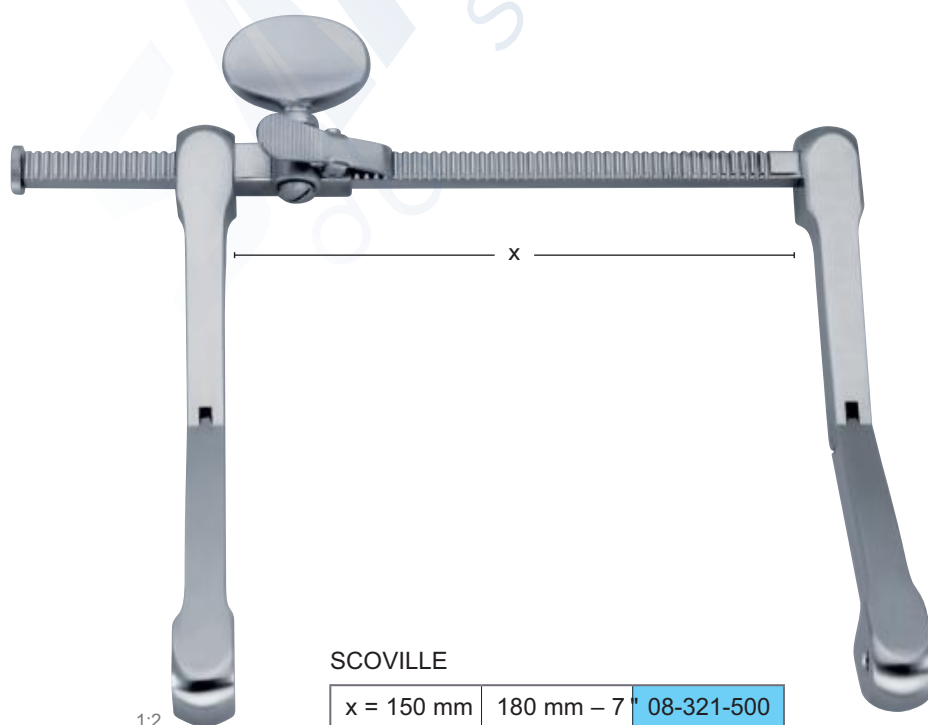
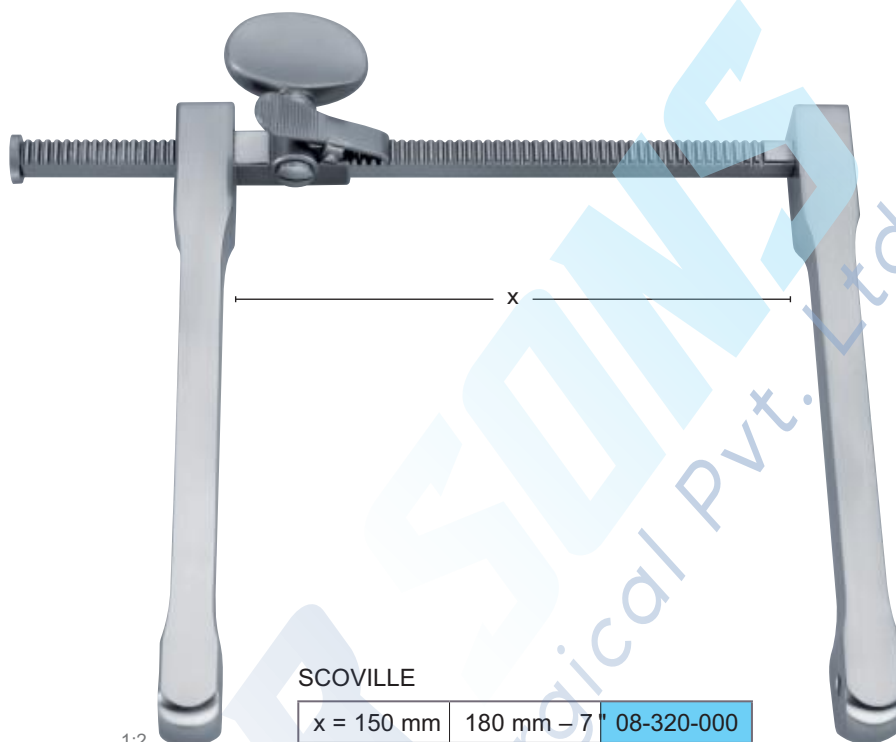
laminektomiesperrer
Laminectomy retractors

Ecarteurs pour laminectomie
Separadores para laminectomía
Divaricatori per laminectomia

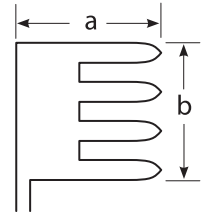


laminektomiesperrer
Laminectomy retractors

Ecarteurs pour laminectomie
Separadores para laminectomía
Divaricatori per laminectomia



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 – ¾ " x 2 ¼ "	08-321-430
a = 80 mm – b = 57 mm – 3" x 2 "	08-321-440

SCOVILLE

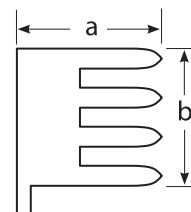
a = 40 mm – b = 37 mm – ½ " x 1 ½ "	08-321-460
a = 65 mm – b = 44 mm – 2½ " x 1 ¾ "	08-321-470

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	108-321-557
a = 76 mm – b = 25 mm – 3" x 1"	08-321-576
a = 88 mm – b = 51 mm – 3½" x 2"	208-321-588



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	108-321-656
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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 1½"	08-322-005
a = 76 mm – b = 25 mm – 3" x 1"	08-322-006
a = 76 mm – b = 38 mm – 3" x 1½"	08-322-007
a = 76 mm – b = 50 mm – 3" x 2"	08-322-008
a = 76 mm – b = 63 mm – 3" x 2½"	08-322-009
a = 90 mm – b = 25 mm – 3½" x 1"	08-322-010
a = 90 mm – b = 37 mm – 3½" x 1½"	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

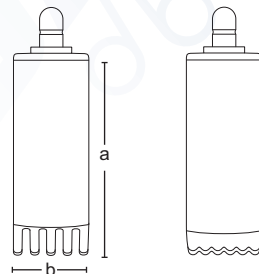
komplett mit 5 medial Valven 08-324-400 – 08-324-600
und mit 5 lateral Valven 08-325-400 – 08-325-600
complete with 5 medial blades 08-324-400 – 08-324-600
and with 5 lateral blades 08-325-400 – 08-325-600
complet avec 5 valves médianes 08-324-400 – 08-324-600
et avec 5 valves latérales 08-325-400 – 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

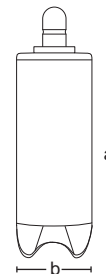
Sperrer ohne Valven
Retractor without blades
Ecarteur sans valves
Separador sin valvas
Divaricatore senza valve



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

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



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
smusso

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

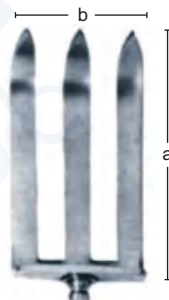
Ecarteurs pour laminectomie
Separadores para laminectomía
Divaricatori per laminectomia



CASPAR 1:1	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



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	



CASPAR

08-331-010

1:2

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
Spéculum pour hypophysectomie trans-sphenoidable
Espéculo para hipofisectomía transfenoidal
Specolo per ipofisectomia trans-sfenoidale