



**SURGICAL  
INSTRUMENTS**

- 10** Diagnostic Instruments
- 11** Puncture Instruments
- 12** Anaesthesia Instruments
- 13** General Instruments
- 14** General Instruments
- 15** General Instruments
- 16** General Instruments
- 17** General Instruments
- 18** General Instruments
- 19** Suture Instruments
- 20** Plaster Instruments
- 21** Bone Instruments
- 22** Tracheotomy Instruments
- 23** Goitre Instruments
- 24** Dermatology Instruments
- 25** Stomach, Intestine and Rectum Instruments
- 26** Bladder and Urology Instruments
- 27** Gynecology Instruments
- 28** Obstetrics Instruments
- 29** Cardiovascular Instruments
- 30** Ophthalmology Instruments
- 31** Neuro and Laminectomy Instruments
- 32** Micro Instruments
- 33** Otolaryngology Instruments
- 34** Rhinology Instruments
- 35** Oral Instruments
- 36** Tonsil Instruments
- 37** Broncho-Esophagoscopy Instruments
- 38** Sterilizing Instruments
- 39** Asepsis





**Aly**  
10-01000-17  
17cm/6¾"



**Wartenberg**  
10-01004-19  
19cm/7½"



**Weber**  
10-01008-09  
9cm/3½"



wood

**Pinard**  
10-01012-18  
18cm/7"



aluminium

**Pinard**  
10-01016-15  
15cm/6"



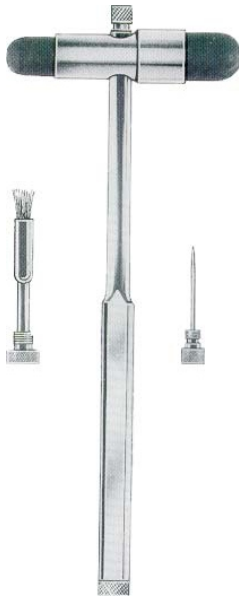
**Chestpiece only**  
10-01020-01

**Ford**  
10-01020-00



**Chestpiece only**  
10-01024-01

**Dual**  
10-01024-00



**Buck**  
10-01028-18  
18cm/7"



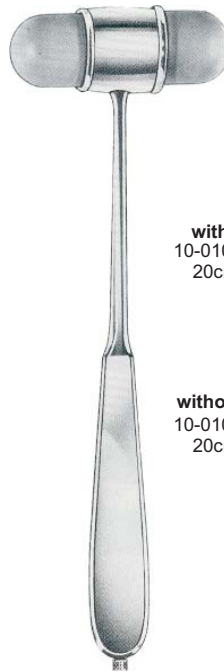
**Buck**  
10-01032-18  
18cm/7"



**Troemner**  
10-01036-24  
24cm/9½"



**Taylor**  
10-01040-1616cm/6 ½"  
10-01040-1818cm/7"  
10-01040-2020cm/8"



**Dejerine**  
20cm/8"

**withpin**  
10-01044-20  
20cm/8"

**withoutpin**  
10-01046-20  
20cm/8"



**Berliner**  
10-01050-20  
20cm/8"



**Traube**  
10-01054-16  
16cm/6 1/4"



**Troemner**  
10-01058-21  
21cm/8 1/4"



**Divers-Duoflex**  
10-01062-22  
22cm/8 3/4"



**Babinsky**  
10-01066-2222cm/8 7/4  
10-01066-2525cm/10"



**Rabiner**  
10-01068-23  
23cm/9 1/4"



**NationalHospital**  
10-01070-33  
33cm/13"



**QueenSqaure**  
10-01074-26  
26cm/10 1/4"



10-01078-00



10-01082-00



10-01086-00

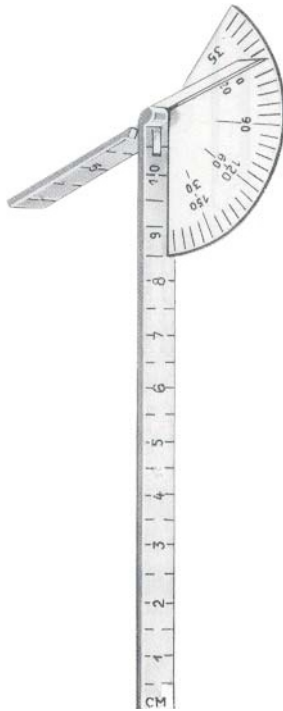


**Jansen**  
10-01092-00



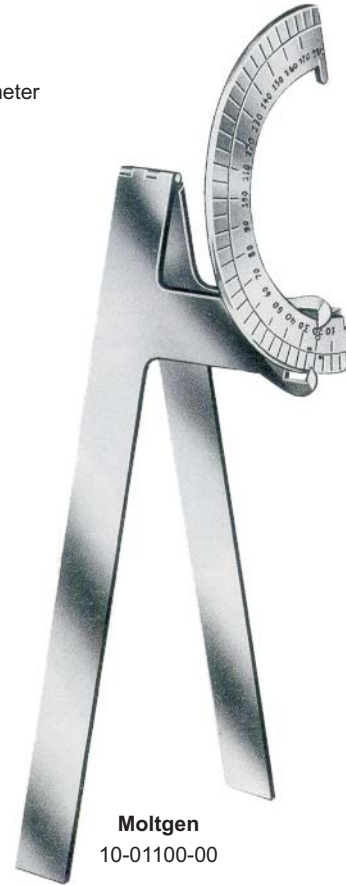
for children 10-01096-01      for adults 10-01096-02

**Collin**



**Caroll**  
10-01104-14  
14cm/5½"

Goniometer



**Moltgen**  
10-01100-00



**Townley**  
10-01108-10  
10cm/4"





**Standard(Nelson)**

Ømm	11cm/4 1/2"
3.0	11-01112-30
3.5	11-01112-35
4.0	11-01112-40
4.5	11-01112-45
5.0	11-01112-50
5.5	11-01112-55
6.0	11-01112-60



**Standard(Nelson)**

Ømm	12cm/4 3/4"
3.0	11-01116-30
3.5	11-01116-35
4.0	11-01116-40
4.5	11-01116-45
5.0	11-01116-50
5.5	11-01116-55
6.0	11-01116-60



**Standard(Nelson)**

Ømm	12cm/4 3/4"
3.0	11-01120-30
3.5	11-01120-35
4.0	11-01120-40
4.5	11-01120-45
5.0	11-01120-50
5.5	11-01120-55
6.0	11-01120-60



**Universal**

11-01124-03=3Setof3  
11-01124-04=4Setof4



Ø6



4 1/2



3



1 3/4 mm



**Universal**

11-01128-03=3Setof3  
11-01128-04=4Setof4

Ø 2mm



**Landau**  
11-01132-16  
16cm/6¼"

Ø 2mm



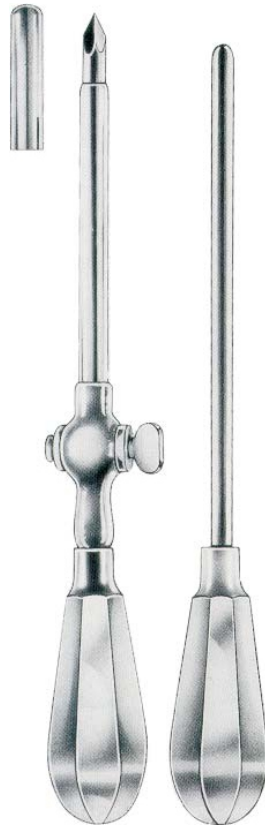
**Landau**  
11-01136-19  
19cm/7½"

Ø 13.5mm



**Peau**  
11-01140-16  
16cm/6¼"

Ø 8mm



**Buelau**  
11-01144-24  
24cm/9½"



**Nelson**  
 Ø mm 21cm/8¼"  
 7.5 11-01148-07  
 9.0 11-01148-09  
 10.5 11-01148-10  
 12.0 11-01148-12



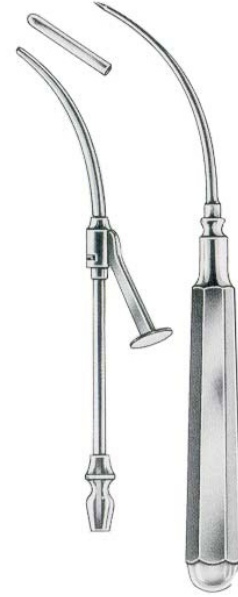
**Ochsner**  
 Ø mm 14.5cm/5½"  
 4.0 11-01152-40  
 4.6 11-01152-46  
 5.5 11-01152-55  
 6.5 11-01152-65

Ø5.5mm



**Krause**  
 11-01156-15  
 15cm/6"

Ø2.25mm



**Coakley**  
 11-01160-16  
 16cm/6¼"

Ø1.8mm



**Lichtwitz**  
 11-01164-19  
 19cm/7½"

Ø3mm



**Douglas**  
 11-01168-11  
 11.5cm/4 ½"



11-01172-11  
 11.5cm/4 ½"



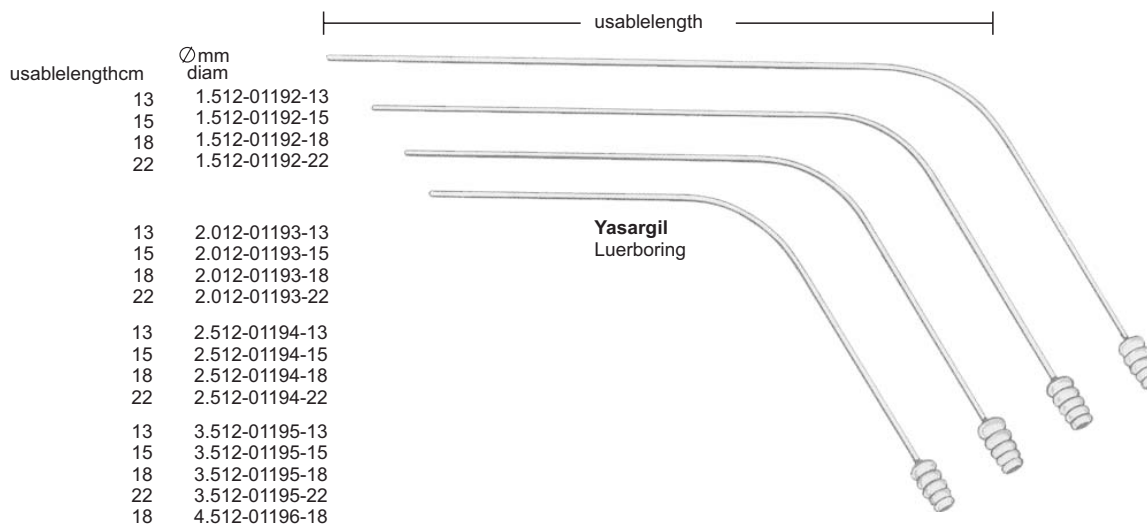
**Pierce**  
 Ø mm  
 3.0 11-01176-03  
 4.0 11-01176-04  
 5.0 11-01176-05



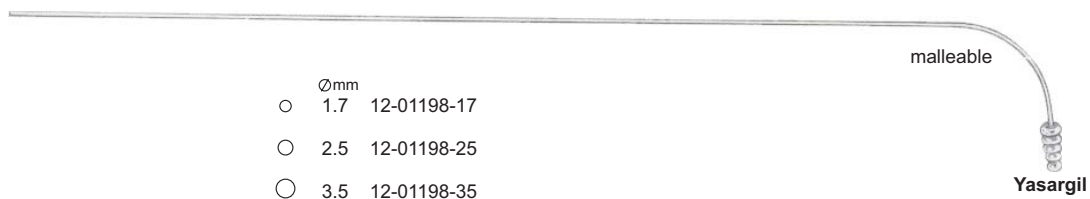
Frazier	
Ømm	Charr./Fr.
2	6 12-01180-06
2 1/3	7 12-01180-07
2 2/3	8 12-01180-08
3	9 12-01180-09
3 1/3	10 12-01180-10
3 2/3	11 12-01180-11
4	12 12-01180-12
5	15 12-01180-15



Ferguson	
Ømm	Charr./Fr.
2	6 12-01184-06
2 1/3	7 12-01184-07
2 2/3	8 12-01184-08
3	9 12-01184-09
3 1/3	1012-01184-10
3 2/3	1112-01184-11
4	1212-01184-12



usablelengthcm	Ømm diam
13	1.512-01192-13
15	1.512-01192-15
18	1.512-01192-18
22	1.512-01192-22
13	2.012-01193-13
15	2.012-01193-15
18	2.012-01193-18
22	2.012-01193-22
13	2.512-01194-13
15	2.512-01194-15
18	2.512-01194-18
22	2.512-01194-22
13	3.512-01195-13
15	3.512-01195-15
18	3.512-01195-18
22	3.512-01195-22
18	4.512-01196-18



Ømm	
○ 1.7	12-01198-17
○ 2.5	12-01198-25
○ 3.5	12-01198-35

## BrainSuctionTubes



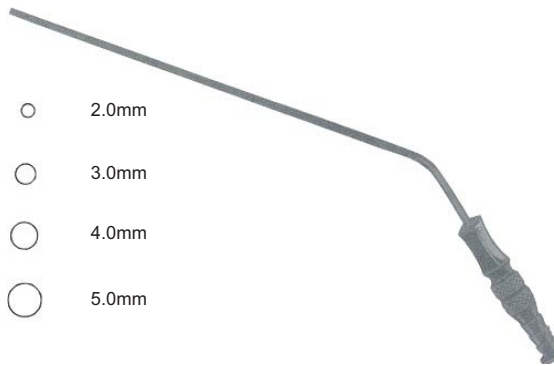
**Frazier**  
 ∅ 2.0mm 12-01202-20  
 2.5mm 12-01202-25  
 3.0mm 12-01202-30  
 13cm/5"



**Plester**  
 ∅ 1.5mm 12-01206-15  
 2.0mm 12-01206-20  
 2.5mm 12-01206-25  
 3.0mm 12-01206-30  
 19.5cm/7¾"



**Adson**  
 12-01210-02  
 21cm/8¼"  
 ∅4mm



- 2.0mm
- 3.0mm
- 4.0mm
- 5.0mm

∅ malleable, black  
 2mm 12-01214-02  
 3mm 12-01214-03  
 4mm 12-01214-04  
 5mm 12-01214-05  
 19.5cm/7¾"





**Yankauer**  
 12-01218-27  
 27cm/10½"



**Yankauer**  
 12-01219-27  
 27cm/10½"

with stopcock



**Yankauer**  
 12-01220-01



Fig.0  
 12-01220-10



Fig.1  
 12-01220-11



Fig.2  
 12-01220-12



Fig.3  
 12-01220-13

12-01220-50 SET



∅ 6mm  
 round

**Nuboer**  
 12-01224-01  
 21cm/8¼"



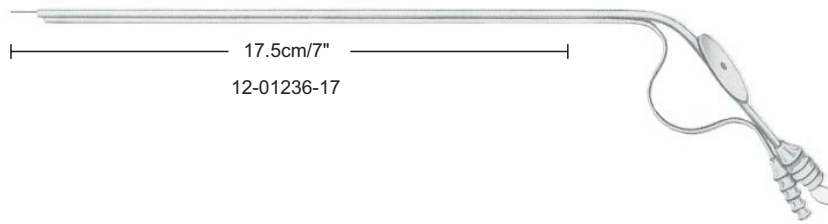
6mm  
 ovale

**Nuboer**  
 12-01224-02  
 21cm/8¼"

∅ 6mm



**Andrew-Pynchon**  
 12-01228-23  
 23cm/9"



Ø 6mm



**Baby-Poole**  
 12-01240-20  
 20cm/8"

Ø10mm



**Poole**  
 12-01240-22  
 22cm/8¾"

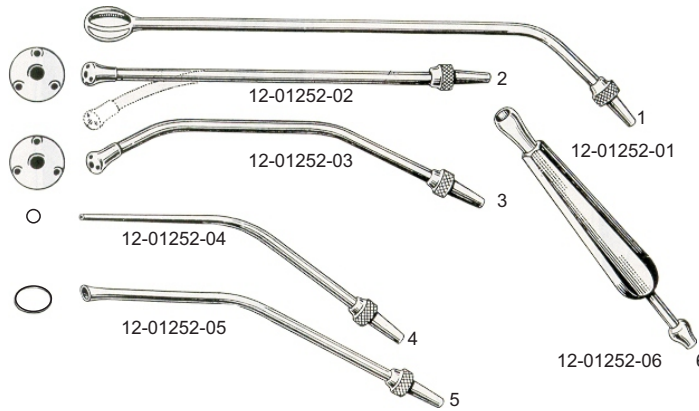
Ø 8mm



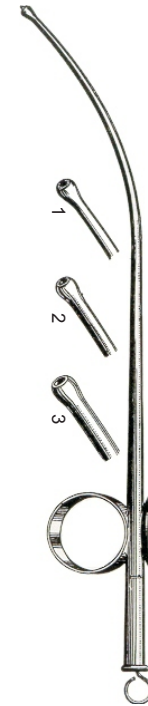
**Poole**  
 12-01244-22  
 22cm/8¾"



**Yankauer**  
 12-01248-34  
 34.5cm/13½"



**Yankaueruniversal**  
 CompleteSet  
 12-01252-60



**Magill**  
 12-01256-01=20cm/8"  
 12-01256-02=20cm/8"  
 12-01256-03=20cm/8"



**Millin**  
 12-01262-30  
 30cm/12"



**Simpson-Smith**  
 12-01266-00



**Schimmelbusch**  
 12-01272-01 Child  
 12-01272-02 Adult



**Magill**  
 12-01280-15 15cm/6" Infant  
 12-01280-20 20cm/8" Child  
 12-01280-25 25cm/10" Adult



**Yankauer**  
 12-01276-01 Child  
 12-01276-02 Adult



**Connel**  
 12-01284-01 Child  
 12-01284-02 Adult



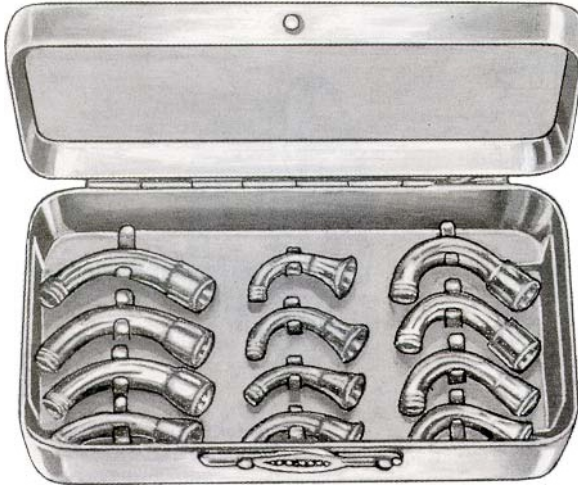
12-01288-01



**Lumbard-Mayo**  
 12-01288-02



12-01288-03



**Magill**  
ConnectionSet  
12-01292-00



**Magill (Nasal)**

	mmdia
12-01292-01	5.5
12-01292-02	6.5
12-01292-03	7.5
12-01292-04	8.0
12-01292-05	8.5
12-01292-06	9.5
12-01292-07	10.0
12-01292-08	10.5

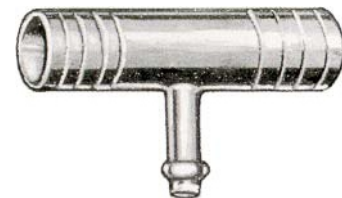


**Magill (Aural)**

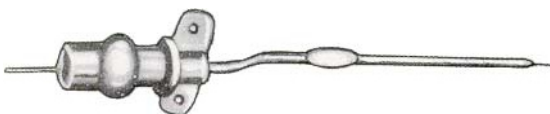
	mmdia
12-01296-01	5.5
12-01296-02	6.5
12-01296-03	7.5
12-01296-04	8.0
12-01296-05	8.5
12-01296-06	9.5
12-01296-07	10.0
12-01296-08	10.5



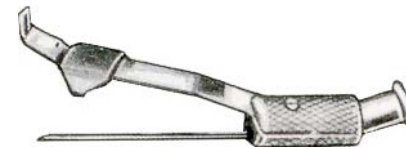
**Cobb**  
12-01300-01 Small  
12-01300-02 Medium  
12-01300-03 Large



**Ayre**  
12-01304-01 Small  
12-01304-02 Medium  
12-01304-03 Large



**HamiltonBailey**  
12-01308-01 Infant  
12-01308-02 Child  
12-01308-03 Adult



**Mitchell**  
12-01312-18  
12-01312-20  
38mm





**McIntosh**  
12-01316-30  
12-01316-40

12-01316-30  
LaryngoscopeSet  
Consistingof:  
12-01332-00BatteryHandle(withoutbatteries)  
12-01316-11McIntoshblade, Fig1  
12-01316-12ditto, Fig2  
12-01316-13ditto, Fig3



12-01316-10

12-01316-11



12-01316-12



12-01316-13



12-01316-14

12-01316-40  
LaryngoscopeSet  
Consistingof:  
12-01332-00BatteryHandle(withoutbatteries)  
12-01316-11McIntoshblade, Fig1  
12-01316-12 McIntoshblade , Fig2  
12-01316-13 McIntoshblade , Fig3  
12-01316-14McIntoshblade, Fig4

McIntoshLaryngoscopeBlades  
12-01316-10 Fig0, Workinglength 55mm, baby's  
12-01316-11 Fig1, Workinglength 75mm, children's  
12-01316-12 Fig2, Workinglength 90mm, adolescent's  
12-01316-13 Fig3, Workinglength 110mm, women's  
12-01316-14 Fig4, Workinglength 135mm, men's



12-01320-30  
 LaryngoscopeSet  
 Consistingof:  
 12-01332-00BatteryHandle(withoutbatteries)  
 12-01320-12Guedel-NegusBlade, Fig2  
 12-01320-13ditto, Fig3  
 12-01320-14ditto, Fig4

**Guedel-Negus**  
 12-01320-30  
 12-01320-40

12-01320-40  
 LaryngoscopeSet  
 Consistingof:  
 12-01332-00BatteryHandle(withoutbatteries)  
 12-01320-11Guedel-NegusBlade, Fig1  
 12-01320-12 Guedel-NegusBlade, Fig2  
 12-01320-13 Guedel-NegusBlade, Fig3  
 12-01320-14Guedel-NegusBlade, Fig4



12-01320-11



12-01320-12



12-01320-13



12-01320-14

**GuedelLaryngoscopeBlades**  
 12-01320-11 Fig1, workinglength 70mm, children's  
 12-01320-12 Fig2, workinglength 90mm, adolescent's  
 12-01320-13 Fig3, workinglength110mm, women's  
 12-01320-14 Fig4, workinglength135mm, men's



**Foregger**  
12-01324-30  
12-01324-40

12-01324-30  
LaryngoscopeSet  
Consistingof:  
12-01332-00BatteryHandle(withoutbatteries)  
12-01324-12Foregger Blade, Fig2  
12-01324-13ditto, Fig3  
12-01324-14ditto, Fig4

12-01324-40  
LaryngoscopeSet  
Consistingof:  
12-01324-00BatteryHandle(Withoutbatteries)  
12-01324-11ForeggerBlade, Fig1  
12-01324-12ForeggerBlade, Fig2  
12-01324-13ForeggerBlade, Fig3  
12-01324-14ForeggerBlade, Fig4



12-01324-11



12-01324-12



12-01324-13



12-01324-14

ForeggerLaryngoscopeBlade,  
12-01324-11 Fig1, workinglength 70mm, children's  
12-01324-12 Fig2, workinglength 90mm, adolescent's  
12-01324-13 Fig3, workinglength 110mm, women's  
12-01324-14 Fig4, workinglength 135mm, men's



Workinglength55mm  
12-01328-10

Workinglength80mm  
12-01328-11

12-01328-20  
 LaryngoscopeSet,BabyandInfant,  
 consistingof:  
 12-01332-00BatteryHandle(withoutbattery)  
 12-01328-10Miller-babyblade, Fig0  
 workinglength55mm  
 12-01328-11ditto, Fig1workinglength80mm

**Miller-Baby**  
12-01328-20



32mmdia  
12-01332-00



28mmdia  
12-01336-00



18mmdia  
12-01340-00



**Negus**  
18mmdia  
12-01344-00





No.3

13-01348-03



No.3

13-01352-03



No.4

13-01356-04



No.4

13-01360-04

doublehandle  
number3+number4



No.7

13-01364-07



No.7k

13-01368-17



No.8

13-01372-08



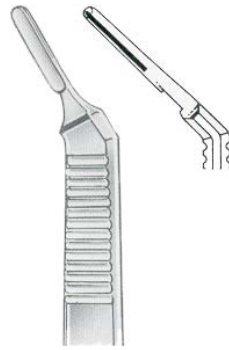
No.9

13-01376-09



13-01380-34





3L  
13-01384-13



4L  
13-01388-14



No.3L  
13-01392-03



No.4L  
13-01396-04



No.5  
13-01400-05  
15cm/6"



No.5A  
13-01404-15  
15cm/6"



13-1408-01  
21cm/8¼"



13-01408-03



17cm/6 /"



Fig. 1

13-01412-01



Fig. 2

13-01412-02



Fig. 3

13-01412-03



Fig. 4

13-01412-04



Fig. 5

13-01412-05



Fig. 6

13-01412-06



Fig. 7

13-01412-07



Fig. 8

13-01412-08



Fig. 9

13-01412-09



Fig. 10

13-01412-10





**Dieffenbach**  
 17cm/6¾"



Fig.1  
 13-01420-01



Fig. 2  
 13-01420-02



Fig. 3  
 13-01420-03



Fig. 4  
 13-01420-04



Fig. 5  
 13-01420-05



Fig.6  
 13-01420-06



Fig.7  
 13-01420-07



Fig.8  
 13-01420-08



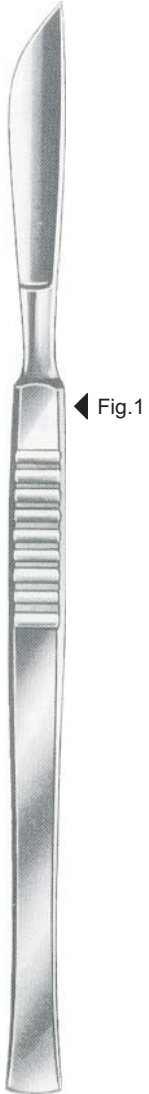
Fig.9  
 13-01420-09



Fig.15  
 13-01420-15



Fig.16  
 13-01420-16



◀ Fig.1

**Bergmann**  
13-01424-01  
14.5cm/5¾"



Fig.2  
13-01424-02



Fig.3  
13-01424-03



Fig.4  
13-01424-04



**Dieffenbach**  
13cm/5¼"



Fig.1  
13-01428-01



Fig.2  
13-01428-02



Fig.3  
13-01428-03



Fig.4  
13-01428-04



Fig.5  
13-01428-05



Fig.6  
13-01428-06



Fig.7  
13-01428-07



Fig.8  
13-01428-08



Fig.9  
13-01428-09



Fig.10  
13-01428-10



Fig.11  
13-01428-11



Fig.12  
13-01428-12



**Simon**  
20cm/8"



**Fig.1**  
13-01432-01



**Fig.2**  
13-01432-02



**Fig.3**  
13-01432-03



**Fig.4**  
13-01432-04



**Ulrich**  
22.5cm/9"



**Fig.1**  
13-01436-01



**Fig.2**  
13-01436-02



**Fig.3**  
13-01436-03



**Simon**  
23.5cm/9 1/4"



**Fig.1**  
13-01440-01



**Fig.2**  
13-01440-02



**Fig.3**  
13-01440-03



**Fig.4**  
13-01440-04



13-01444-01  
7.5cm/3"



13-01444-02  
8cm/3 1/4"





Flapknife

Interosseusknife

Phalangealknife

Length of blades		Liston	Catlin	Langenbeck	13-01464-09	13-01468-11
cm	in					
9.5	3 3/4					
11.0	4 1/2					
12.0	4 3/4			13-01460-12		
13.0	5	13-01448-13				
15.0	6					
16.0	6 1/4	13-01448-16		13-01456-16		
17.0	6 3/4		13-01452-17			
19.0	7 1/2	13-01448-19		13-01456-19		
20.0	8		13-01452-20			
22.0	8 3/4	13-01448-22		13-01456-22		





**Langenbeck**  
 13-01472-01  
 18cm/7"

**Virchow**

Lengthofblades

8.5 cm/3½"			13-01488-08
11.0 cm/4½"		13-01480-11	13-01484-11
14.0 cm/5½"		13-01480-14	
16.0 cm/6¼"	13-01476-16		
17.0 cm/6¾"		13-01480-17	
20.0 cm/8"	13-01476-20		
24.0 cm/9½"	13-01476-24		

Autopsyknives  
Lengthofblades  
19.5cm/7 3/4"



13-01496-19

Lengthofblades  
9.5cm/3 3/4"



**Virchow**  
13-01492-09

Cartilageknives



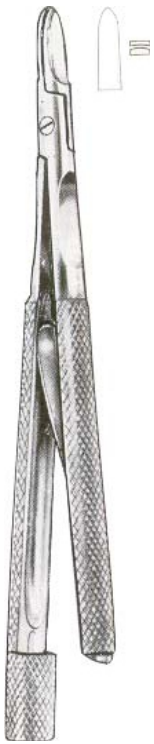
13-01500-01



13-01504-01

Woodenhandle

Metalhandle



**Troutman-Chris**  
 13-01508-09  
 9cm/3 1/2"



**Troutman-Chris**  
 13-01509-09  
 9cm/3 1/2"



13-01512-11  
 11cm/4 1/2"



**Castroviejo**  
 13-01516-13  
 13cm/5 1/4"

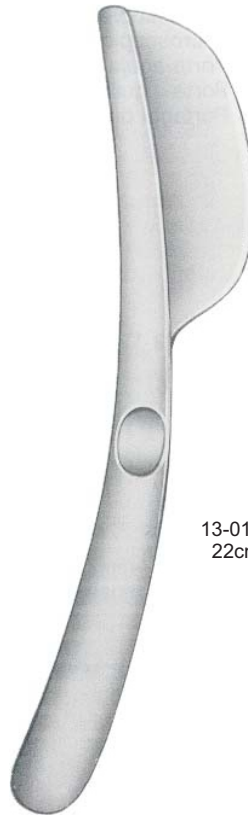


13-01520-18  
 18cm/7"



SkullBreaker

13-01524-14  
14cm/5 1/2"



Rachiotome

13-01528-22  
22cm/8 3/4"



23mm

Osteotome

13-01532-13  
13cm/5"



**Brunetti**

13-01536-28  
13-01537-28  
28.5cm/11 1/4"

Musclehooks



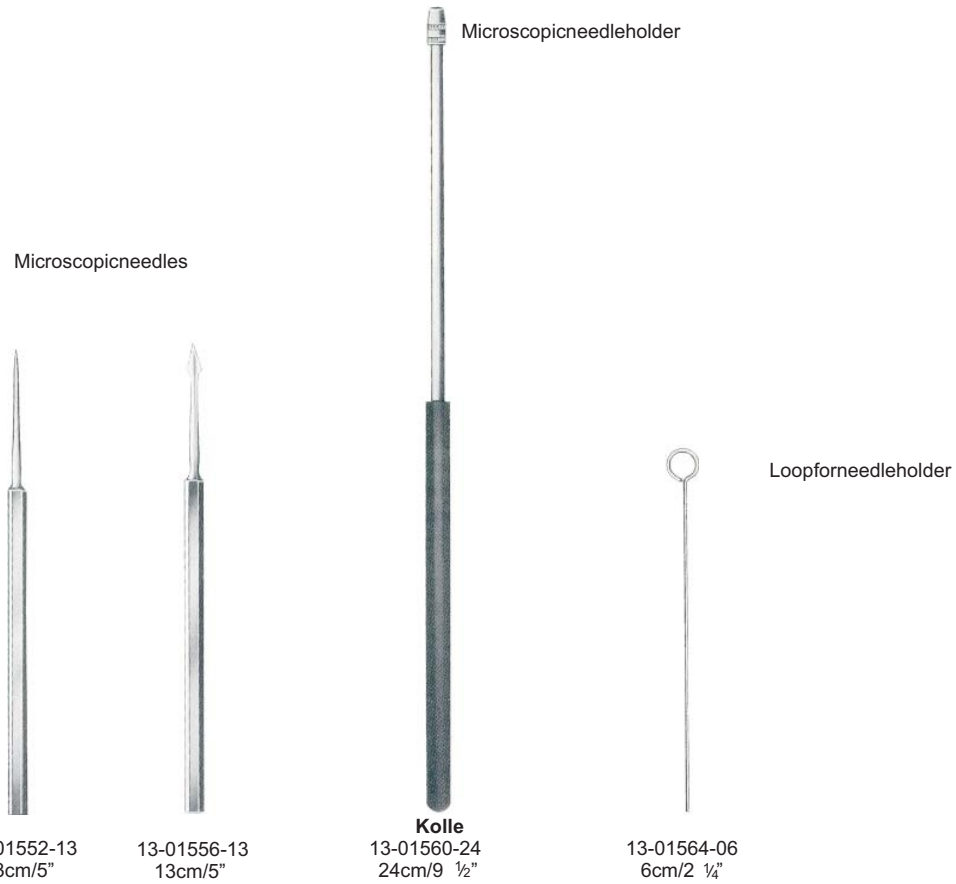
13-01540-06  
6.5cm/2 1/2"



13-01544-07  
7cm/2 3/4"



13-01548-01



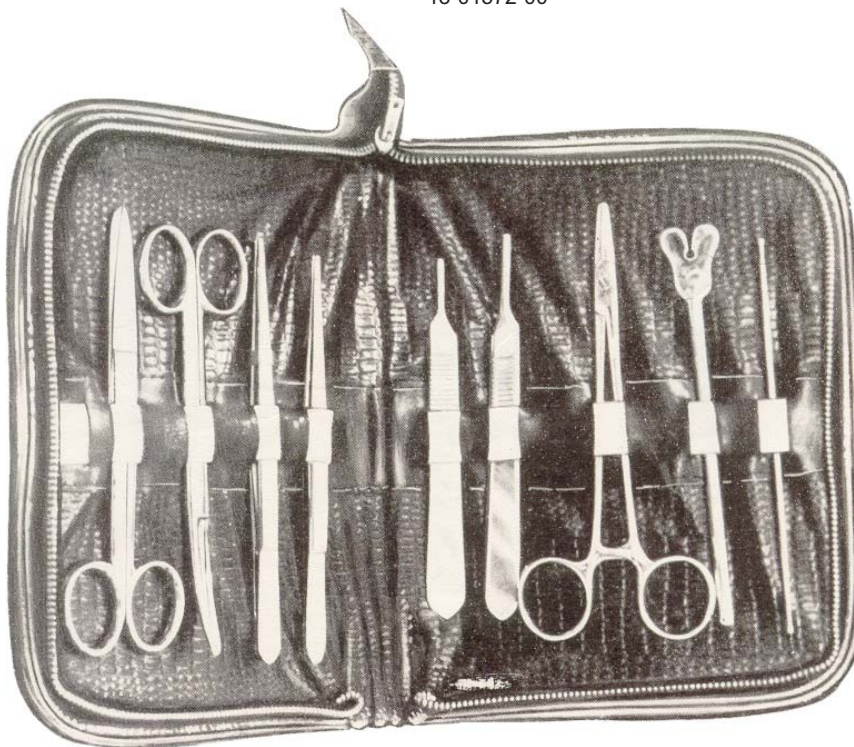
Postmortemneedles







13-01572-00



13-01576-00





Straight 14-01580-14  
Curved 14-01581-14  
14.5cm/5¾"

**Mayo**  
Straight 14-01584-14 14.5cm/5¾"  
14-01584-17 17.0cm/6¾"  
14-01584-23 23.0cm/9"  
Curved 14-01585-14  
14-01585-17  
14-01585-23

SawEdge

**Mayo-Stillle**  
Straight 14-01588-15 15.0cm/6"  
14-01588-17 17.0cm/6¾"  
Curved 14-01589-15  
14-01589-17

**Lexer**  
Straight 14-01592-16  
Curved 14-01593-16  
16cm/6¼"



**Baby-Metzenbaum**  
Straight 14-01596-11  
Curved 14-01597-11  
11.5cm/4½"

**Metzenbaum-Fine**  
Straight 14-01600-14  
Curved 14-01601-14  
14.5cm/5¾"

**Metzenbaum-Fine**  
Straight 14-01604-18 18cm/7"  
14-01604-20 20cm/8"  
14-01604-23 23cm/9"  
Curved 14-01605-18  
14-01605-20  
14-01605-23

Sawedge



**Sims**  
 Straight 14-01608-20 20cm/8"  
 Curved 14-01609-20 23cm/9"  
 14-01608-23 23cm/9"  
 14-01609-23



**Siebold**  
 14-01613-24  
 24cm/9 1/2"



**Jameson**  
 16-01617-15 15cm/6"  
 16-01617-18 18cm/7"



**Reynolds**  
 Straight 16-01620-15 15cm/6"  
 Curved 16-01621-15 15cm/6"



Straight 14-01624-11 11.5cm/4 1/2"  
 Curved 14-01625-11



Straight 14-01628-11 11.5cm/4 1/2"  
 Curved 14-01629-11



**Plastic Surgery**  
 Straight 14-01632-12 12cm/4 3/4"  
 Curved 14-01633-12



**Wagner**  
 Straight 14-01636-12 12cm/4 3/4"  
 Curved 14-01637-12

SawEdge



14-01641-11  
11.5cm/4 1/2"



14-01645-14  
14cm/5 1/2"



**Reynolds**  
14-01649-13  
13cm/5"

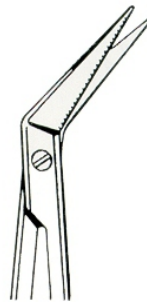
Endarterectomy  
Scissors



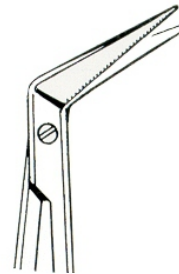
**Potts-Smith**  
19cm/7 1/2"



25°  
14-01653-19



45°  
14-01655-19



60°  
14-01657-19



14-01661-17  
17cm/6 3/4"



**Lister**

14-01665-1414.5cm/5 3/4"  
14-01665-1818cm/7"  
14-01665-2020cm/8"

SawEdge



**Braun-Stadler**

14-01669-1414.5cm/5 3/4"  
14-01669-2222cm/8 3/4"



**Stevens**

Straight 14-01672-11 11.5cm/4 1/2"  
Curved 14-01673-11



**Heymann**

14-01677-18  
18cm/7"



**Fomon**

14-01681-13  
13cm/5"



**Fomon**

14-01685-13  
13cm/5"



**Cottle**

14-01689-16  
16cm/6 1/4"



Straight

Standard  
Fig. 1

10.0	cm/4"	14-01692-10
11.5	cm/4 1/2"	14-01692-11
13.0	cm/5"	14-01692-13
14.5	cm/5 3/4"	14-01692-14
15.5	cm/6"	14-01692-15
16.0	cm/6 1/4"	14-01692-16
18.0	cm/7"	14-01692-18
20.0	cm/8"	14-01692-20



Straight

Standard  
Fig. 2

14-01694-10
14-01694-11
14-01694-13
14-01694-14
14-01694-15
14-01694-16
14-01694-18
14-01694-20



Straight

Standard  
Fig. 3

14-01696-10
14-01696-11
14-01696-13
14-01696-14
14-01696-15
14-01696-16
14-01696-18
14-01696-20



Straight

Standard  
14.5cm/5 3/4"

## PinsmedTC

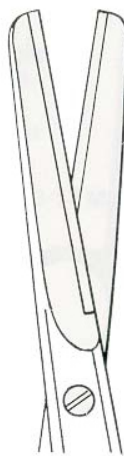


Fig. 1  
14-01700-14

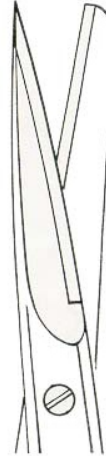


Fig. 2  
14-01702-14



Fig. 3  
14-01704-14



Curved

Standard  
Fig. 1

- 14-01707-10
- 14-01707-11
- 14-01707-13
- 14-01707-14
- 14-01707-15
- 14-01707-16
- 14-01707-18
- 14-01707-20



Curved

Standard  
Fig. 2

- 14-01709-10
- 14-01709-11
- 14-01709-13
- 14-01709-14
- 14-01709-15
- 14-01709-16
- 14-01709-18
- 14-01709-20



Curved

Standard  
Fig. 3

- 14-01711-10
- 14-01711-11
- 14-01711-13
- 14-01711-14
- 14-01711-15
- 14-01711-16
- 14-01711-18
- 14-01711-20

- |      |        |
|------|--------|
| 10.0 | cm/4"  |
| 11.5 | cm/4½" |
| 13.0 | cm/5"  |
| 14.5 | cm/5¾" |
| 15.5 | cm/6"  |
| 16.0 | cm/6¼" |
| 18.0 | cm/7"  |
| 20.0 | cm/8"  |

## PinsmedTC



Curved

Standard  
14.5cm/5¾"



Fig. 1  
14-01715-14



Fig. 2  
14-01717-14



Fig. 3  
14-01719-14





**Grazil**

14-01722-13 13.0cm/5" 14-01724-13  
 14-01722-14 14.5cm/5 3/4" 14-01724-14  
 Straight



**Grazil**

14-01727-13 13.0cm/5" 14-01729-13  
 14-01727-14 14.5cm/5 3/4" 14-01729-14  
 Curved



**Straight**

14-01732-14



**Curved**

14-01733-14



**Straight**

14-01736-15



**Curved**

15.5cm/6"

14-01737-15

## *PinsmedTC*



**Lexer**  
Straight  
14-01740-16  
16cm/6 ¼"



**Lexer**  
Curved  
14-01741-16  
16cm/6 ¼"



**Lexer**  
Straight  
14-01744-16  
16cm/6 ¼"



**Lexer**  
Curved  
14-01745-16  
16cm/6 ¼"

## *PinsmedTC*



**Lexer-Fine**  
Straight  
14-01748-16  
16cm/6 ¼"



**Lexer-Fine**  
Curved  
14-01749-16  
16cm/6 ¼"



**Lexer-Fine**  
Straight  
14-01752-16  
16cm/6 ¼"



**Lexer-Fine**  
Curved  
14-01753-16  
16cm/6 ¼"

## IncisionScissors



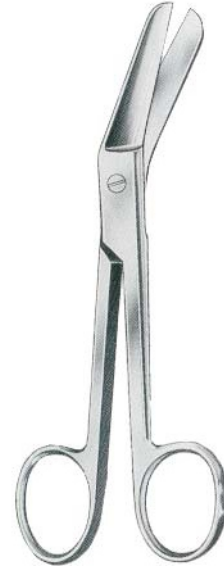
14-01756-13 13.0cm/5 1/4"  
14-01756-14 14.5cm/5 3/4"



14-01760-15  
15.5cm/6"



**Richter**  
14-01763-14  
14.5cm/5 3/4"



**Richter**  
14-01767-14  
14.5cm/5 3/4"



**Fergusson**  
14-01771-18  
18cm/7"



**NewSuture**  
14-01775-14  
14.5cm/5 3/4"

## PinsmedTC



**Mayo  
Straight**

14-01778-1414.5cm/5 3/4"  
14-01778-1515.0cm/6"  
14-01778-1717.0cm/6 3/4"  
14-01778-1919.0cm/7 1/2"  
14-01778-2323.0cm/9"



**Mayo  
Curved**

14-01779-1414.5cm/5 3/4"  
14-01779-1515.0cm/6"  
14-01779-1717.0cm/6 3/4"  
14-01779-1919.0cm/7 1/2"  
14-01779-2323.0cm/9"



**Mayo  
Straight**

14-01782-1414.5cm/5 3/4"  
14-01782-1718.0cm/7"  
14-01782-2313.0cm/9"



**Mayo  
Curved**

14-01783-1414.5cm/5 3/4"  
14-01783-1718.0cm/7"  
14-01783-2313.0cm/9"

## PinsmedTC



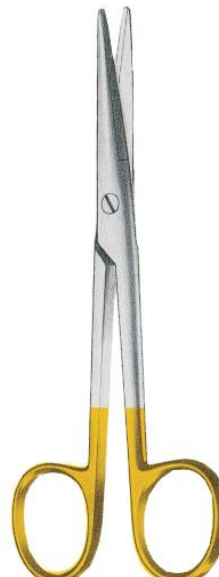
**Mayo-Stille  
Straight**

14-01786-1515cm/6"  
14-01786-1717cm/6 3/4"  
14-01786-1919cm/7 1/2"  
14-01786-2121cm/8 1/4"



**Mayo-Stille  
Curved**

14-01787-1515cm/6"  
14-01787-1717cm/6 3/4"  
14-01787-1919cm/7 1/2"  
14-01787-2121cm/8 1/4"



**Mayo-Stille  
Straight**

14-01790-1615cm/6"  
14-01790-1717cm/6 3/4"



**Mayo-Stille  
Curved**

14-01791-1615cm/6"  
14-01791-1717cm/6 3/4"



Straight

**Mayo-Noble**  
14-01794-17  
17cm/6 3/4"



Curved

**Mayo-Noble**  
14-01795-17  
17cm/6 3/4"



Straight

**Baby-Metzenbaum**  
14-01798-11  
11.5cm/4 1/2"

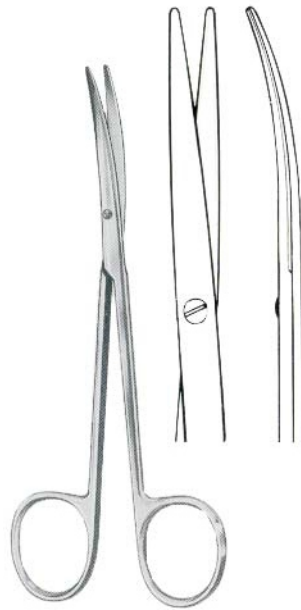


Curved

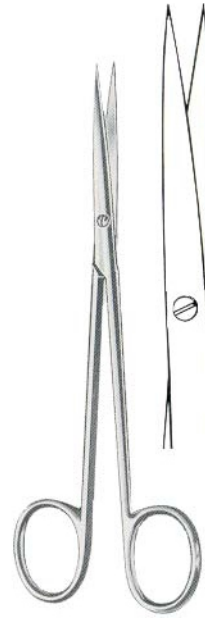
**Baby-Metzenbaum**  
14-01799-11  
11.5cm/4 1/2"



**Metzenbaum-Fine**  
14-01802-14  
14.5cm/5 3/4"



**Metzenbaum-Fine**  
14-01803-14  
14.5cm/5 3/4"



**Metzenbaum-Fine**  
14-01806-14  
14.5cm/5 3/4"



**Metzenbaum-Fine**  
14-01807-14  
14.5cm/5 3/4"

Straight



Fig1

**Metzenbaum**  
14-01810-14  
14.5cm/5 3/4"



Fig2

**Metzenbaum**  
14-01812-14  
14.5cm/5 3/4"

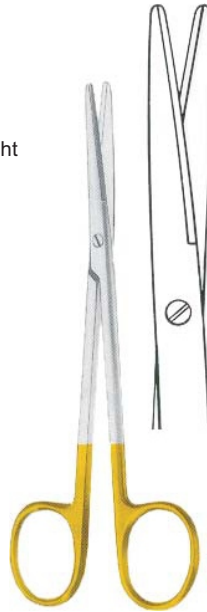


Fig3

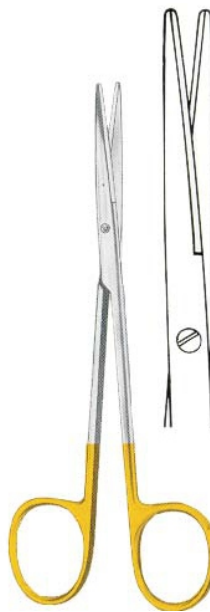
**Metzenbaum**  
14-01814-14  
14.5cm/5 3/4"

## *PinsmedTC*

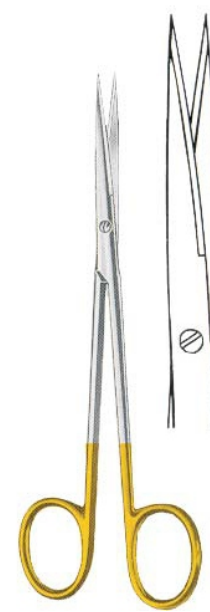
Straight



**Metzenbaum**  
14-01818-14  
14.5cm/5 3/4"



**Metzenbaum-Fine**  
14-01820-14  
14.5cm/5 3/4"



**Metzenbaum-Fine**  
14-01822-14  
14.5cm/5 3/4"



Curved



Fig.1  
**Metzenbaum**  
 14-01825-14  
 14.5cm/5 ¾"



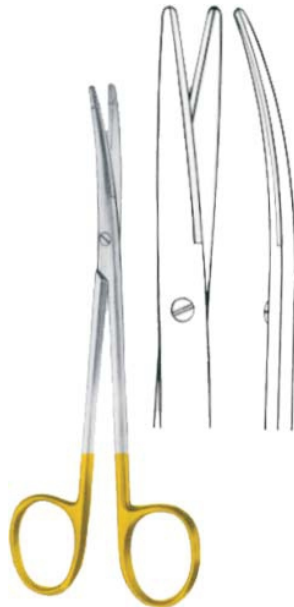
Fig.2  
**Metzenbaum**  
 14-01827-14  
 14.5cm/5 ¾"



Fig.3  
**Metzenbaum**  
 14-01829-14  
 14.5cm/5 ¾"

## *PinsmedTC*

Curved



**Metzenbaum**  
 14-01831-14  
 14.5cm/5 ¾"



**Metzenbaum-Fine**  
 14-01833-14  
 14.5cm/5 ¾"



**Metzenbaum-Fine**  
 14-01835-14  
 14.5cm/5 ¾"

Straight



**Metzenbaum-Fine**

18cm/7"	14-01838-18
20cm/8"	14-01838-20
23cm/9"	14-01838-23
25cm/10"	14-01838-25
28cm/11"	14-01838-28
30cm/12"	14-01838-30



**Metzenbaum**

14-01840-18
14-01840-20
14-01840-23
14-01840-25
14-01840-28
14-01840-30



**Metzenbaum**

14-01842-18
14-01842-20
14-01842-23
14-01842-25
14-01842-28
14-01842-30



**Metzenbaum**

14-01844-18
14-01844-20
14-01844-23
14-01844-25
14-01844-28
14-01844-30

**PinsmedTC**

Straight



**Metzenbaum**

18cm/7"	14-01848-18
20cm/8"	14-01848-20
23cm/9"	14-01848-23
25cm/10"	14-01848-25
28cm/11"	14-01848-28
30cm/12"	14-01848-30



**Metzenbaum-Fine**

14-01850-18
14-01850-20
14-01850-23
14-01850-25
14-01850-28
14-01850-30



**Metzenbaum-Fine**

14-01852-18
14-01852-20
14-01852-23
14-01852-25
14-01852-28
14-01852-30

Curved



	<b>Metzenbaum-Fine</b>	<b>Metzenbaum</b>	<b>Metzenbaum</b>	<b>Metzenbaum</b>
18cm/7"	14-01855-18	14-01857-18	14-01859-18	14-01861-18
20cm/8"	14-01855-20	14-01857-20	14-01859-20	14-01861-20
23cm/9"	14-01855-23	14-01857-23	14-01859-23	14-01861-23
25cm/10"	14-01855-25	14-01857-25	14-01859-25	14-01861-25
28cm/11"	14-01855-28	14-01857-28	14-01859-28	14-01861-28
30cm/12"	14-01855-30	14-01857-30	14-01859-30	14-01861-30

**PinsmedTC**

Curved



	<b>Metzenbaum</b>	<b>Metzenbaum-Fine</b>	<b>Metzenbaum-Fine</b>
18cm/7"	14-01865-18	14-01867-18	14-01869-18
20cm/8"	14-01865-20	14-01867-20	14-01869-20
23cm/9"	14-01865-23	14-01867-23	14-01869-23
25cm/10"	14-01865-25	14-01867-25	14-01869-25
28cm/11"	14-01865-28	14-01867-28	14-01869-28
30cm/12"	14-01865-30	14-01867-30	14-01869-30



**Sims**  
14-01870-20 20cm/8"  
14-01870-23 23cm/9"



**Straight**  
14-01872-20 20cm/8" 14-01874-20  
14-01872-23 23cm/9" 14-01874-23



**Sims**  
14-01977-20 20cm/8"  
14-01977-23 23cm/9"



**Curved**  
14-01879-20 20cm/8" 14-01881-20  
14-01879-23 23cm/9" 14-01881-23

## *PinsmedTC*



**Sims**  
14-01883-20 20cm/8"  
14-01883-23 23cm/7"



**Wertheim**  
14-01887-14 14.5cm/5 3/4"  
14-01887-19 19.5cm/7 3/4"  
14-01887-22 22.5cm/9"



Curved

**Dubois**  
14-01892-2727cm/10 1/2"

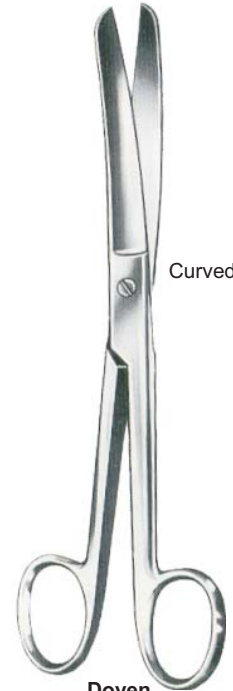


**Dubois**  
14-01893-2727cm/10 1/2"



Straight

**Doyen**  
14-01896-1616cm/6 1/4"  
14-01896-1818cm/7"



Curved

**Doyen**  
14-01897-1616cm/6 1/4"  
14-01897-1818cm/7"



**Kelly**  
14-01900-1616cm/6 1/4"  
14-01900-1818cm/7"



**Kelly**  
14-01901-1616cm/6 1/4"  
14-01901-1818cm/7"



Fig. 1  
14-01904-12



Fig. 2  
14-01906-12



Fig. 3  
14-01908-12

Straight

12cm/4¾"



Fig. 1  
14-01911-12



Fig. 2  
14-01913-12



Fig. 3  
14-01915-12

Curved

12cm/4¾"

SawEdge



Wagner  
12cm/4¾"

Curved



Fig. 1  
14-01916-12



Fig. 2  
14-01918-12



Fig. 3  
14-01920-12



Fig. 4  
14-01922-12



Fig. 1  
14-01923-12



Fig. 2  
14-01925-12



Fig. 3  
14-01927-12



Fig. 4  
14-01929-12

Straight

14-01932-12  
11.5cm/4½"

Curved



14-01933-12  
11.5cm/4½"





Straight

**Brophy(Sullivan)**  
14-01936-14

14.5cm/5 3/4"

14-01937-14



Curved



Straight

**Reynolds**  
14-01940-15  
14-01940-18

15cm/6"  
18cm/7"



Curved

14-01941-15  
14-01941-18

### EucleationScissors



**Jameson**  
14-01945-15  
15cm/6"



14-01948-12



14-01951-12

**Landolt**  
12.5cm/5"



14-01953-12



14-01955-12

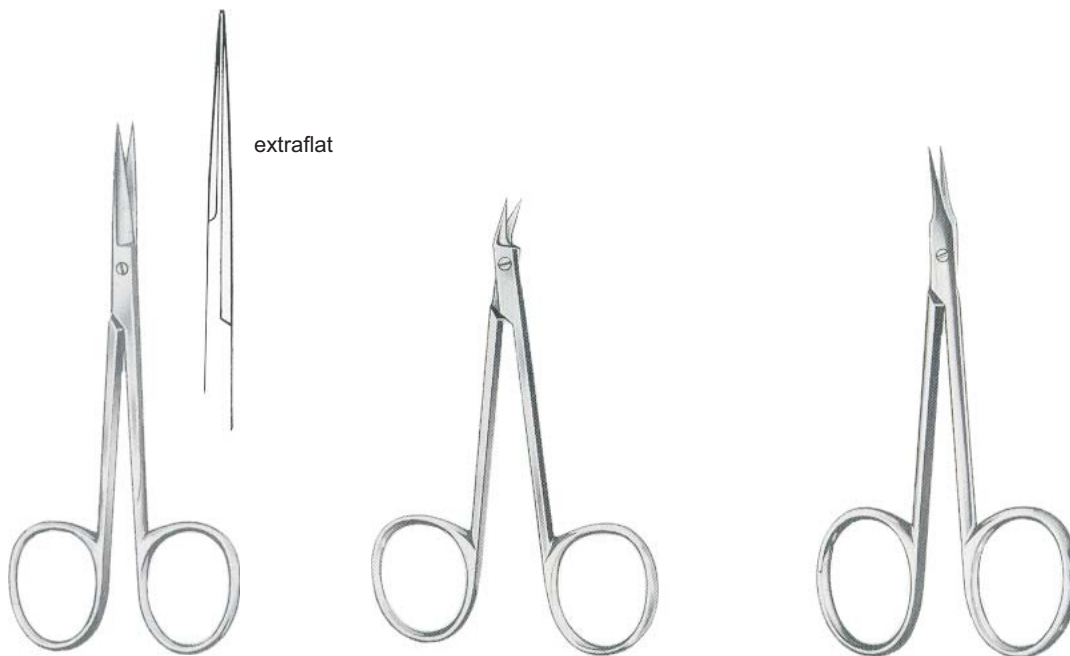


Straight

Curved

**Standard**

9.0 cm/3½"	14-01958-09	14-01959-09	14-01961-09	14-01964-09	14-01965-09
10.5 cm/4¼"	14-01958-10	14-01959-10	14-01961-10	14-01964-10	14-01965-10
11.5 cm/4½"	14-01958-11	14-01959-11	14-01961-11	14-01964-11	14-01965-11



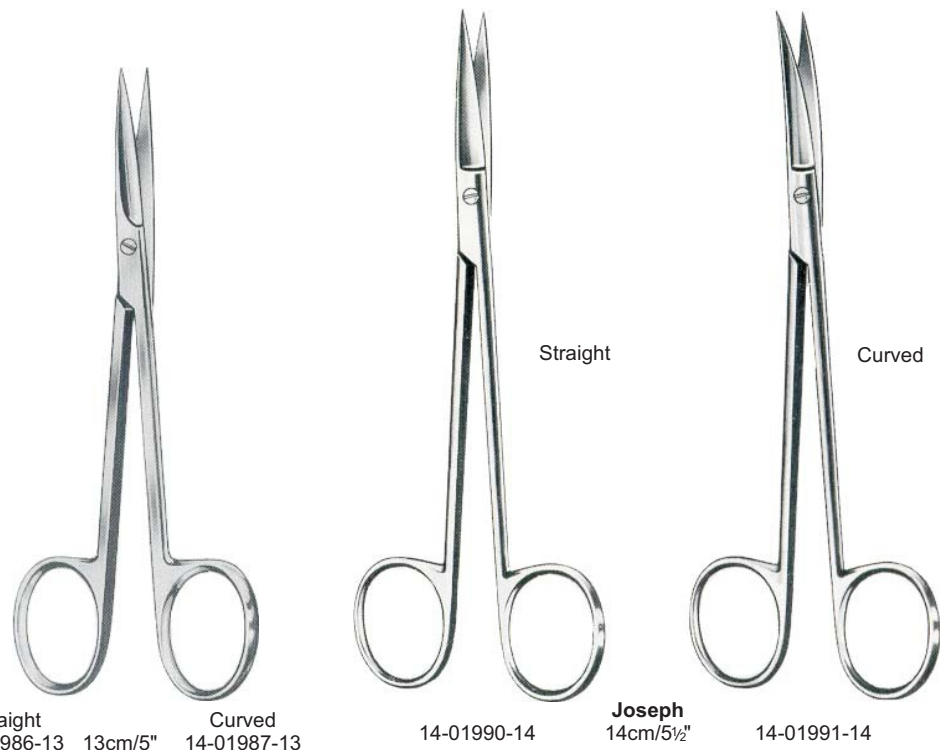
extraflat

14

14-01968-10  
10cm/4"

14-01971-09  
9cm/3½"

**Walton**  
14-01975-10  
10cm/4"





**Kilner(Regnell)**  
 14-01995-1212cm/4 3/4"  
 14-01995-1313cm/5"  
 14-01995-1515cm/6"



Coronary Scissors

14-01998-14  
 14.5cm/5 3/4"



14-02002-11  
 11.5cm/4 1/2"



**Potts-Smith**  
 14-02005-19  
 19.5cm/7 3/4"



**DeBakey**  
 14-02009-15  
 15.5cm/6"



**DeBakey**  
 14-02013-15  
 15.5cm/6"



**Favaloro**  
 14-02017-15  
 15cm/6"





**Martin-Cartilage**  
14-02039-20  
20cm/8"

SawEdge



**McIndoe**  
14-02042-19  
19cm/7½"



**Potts-Smith**  
14-02045-19  
19cm/7½"



**Satinsky**  
14-02049-24  
24.5cm/10"

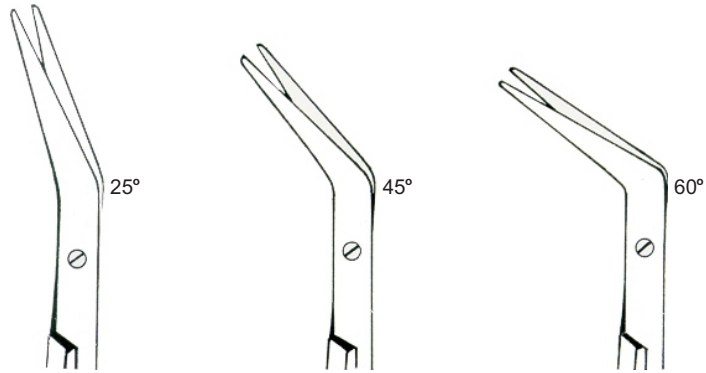


**Klingenberg-Loth**  
14-02053-23  
23cm/9"





**DeBakey**  
18cm/7"

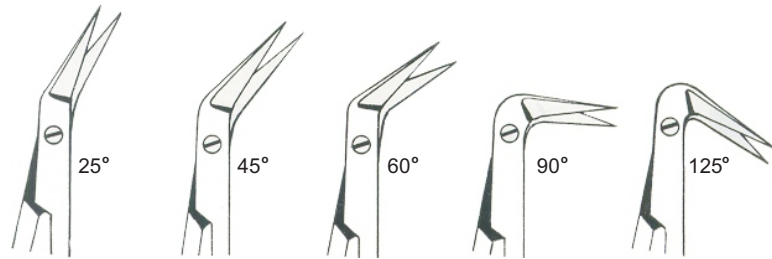


cm	In			
16.0cm	6¼"	14-02057-16	14-02059-16	14-02061-16
23.0cm	9"	14-02057-23	14-02059-23	14-02061-23
28.0cm	11"	14-02057-28	14-02059-28	14-02061-28



**Baby-Hegemann**  
13.5cm/5¼"

**Hegemann(Diethrich)**  
16cm/6¼"  
19cm/7½"



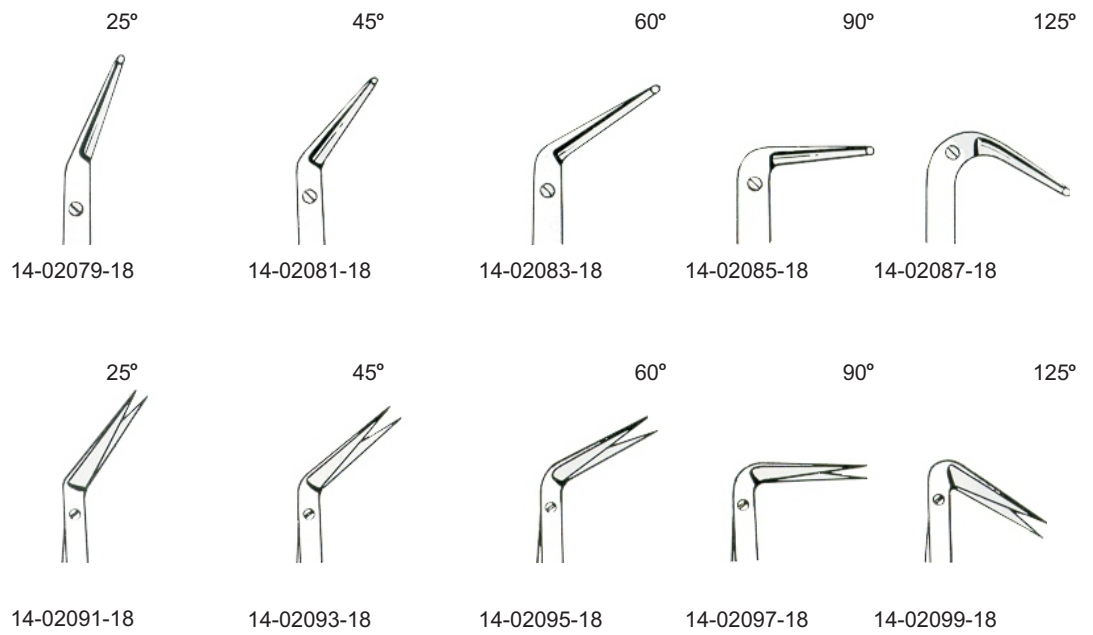
cm	In					
13.0cm	5¼"	14-02063-13	14-02065-13	14-02067-13	14-02069-13	14-02071-13
16.0cm	6¼"	14-02063-16	14-02065-16	14-02067-16	14-02069-16	14-02071-16
19.0cm	7½"	14-02063-19	14-02065-19	14-02067-19	14-02069-19	14-02071-19



**Hegemann(Diethrich)**  
14-02075-19  
19cm/7½"



18cm/7"



NerveDissectingScissors



14-02103-15  
15cm/6"

TonsilScissors



**Bottcher**  
14-02107-18  
18cm/7"



**Prince**  
14-02111-17  
17.5cm/7"

ArteriotomyScissors



**Tonnis-Adson-Fine**  
14-02115-17  
17.5cm/7"



Straight

**Tonnis**  
14-02118-18  
18cm/7"



Curved

**Tonnis**  
14-02119-18  
18cm/7"



**Tonnis-Adson**  
14-02123-17  
17.5cm/7"

**PinsmedTC**



**Tonnis-Adson**  
14-02125-17  
17.5cm/7"

Tonsil Scissors



**Good**  
14-02129-19  
19 cm/7 1/2"

Lobectomy Scissors



**Crafoord**  
14-02133-30  
30 cm/12"



**Finochietto**  
14-02137-27  
27 cm/10 1/2"

Enterotomy Scissors



14-02142-21  
21 cm/8 1/4"



14-02146-21  
21 cm/8 1/4"



14-02150-21  
21 cm/8 1/4"



**Busch**  
 14-02153-13 13cm/5"  
 14-02153-16 16cm/6 ¼"



**Schumacher**  
 14-02157-16  
 16cm/6 ¼"



**Mod.USA**  
 14-02160-10  
 10.5cm/4 ¼"



**Braun-Stadler**  
 14-02163-14  
 14cm/5 ½"



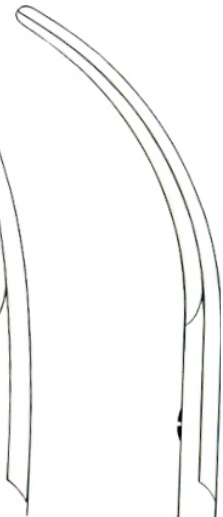
**Braun-Stadler**  
 14-02165-22  
 22cm/8 ½"



**PinsmedTC**



14-02169-23  
 23cm/9"



14-02171-23  
 23cm/9"



**Heymann**  
 14-02175-18  
 18cm/7"



**Heymann**  
 14-02177-19  
 19.5cm/7 3/4"



**Knight**  
 14-02181-18  
 18cm/7"



**Fomon**  
 14-02185-13  
 13cm/5"



**Fomon**  
 14-02189-13  
 13.5cm/5 1/4"



**Fomon**  
 14-02191-13  
 13.5cm/5 1/4"



**Cottle**  
 14-02195-16  
 16cm/6 1/4"



**Halle**  
 14-02199-19  
 19cm/7 1/4"





14-02202-22 **Strully** 22cm/8 3/4" 14-02203-22



**Dandy**  
14-02207-22  
17cm/6 3/4"



Trigeminal Scissors

**Olivecrona**  
14-02211-15



**Universal**  
14-02215-12  
12cm/4 3/4"

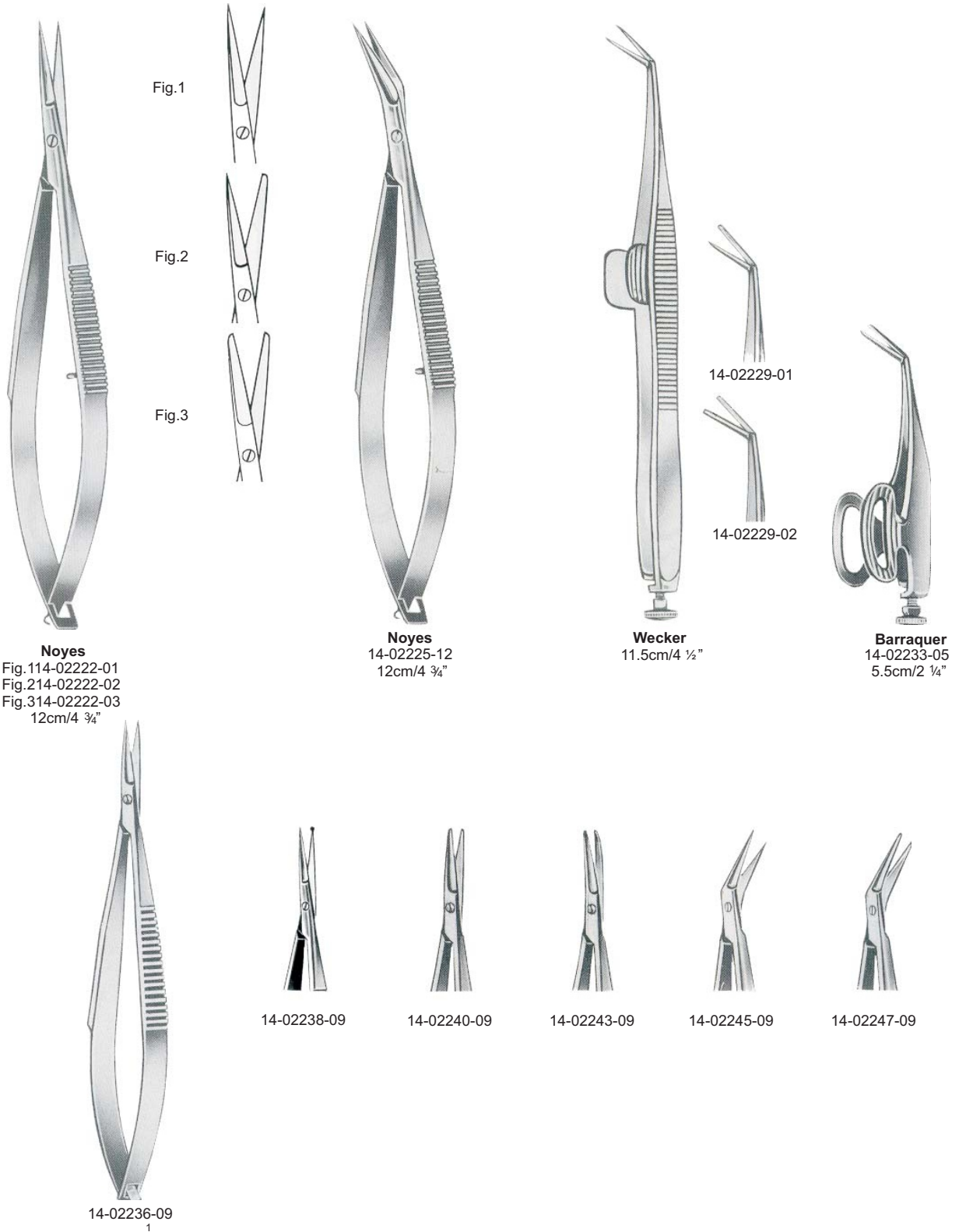


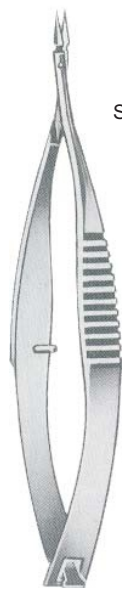
**Goldman-Fox**  
Straight  
14-02218-13  
13cm/5"



**Goldman-Fox**  
Curved  
14-02219-13  
13cm/5"

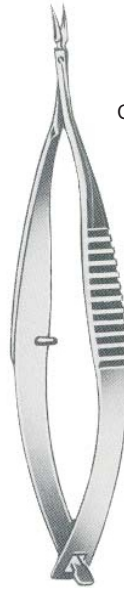
*PinsmedTC*





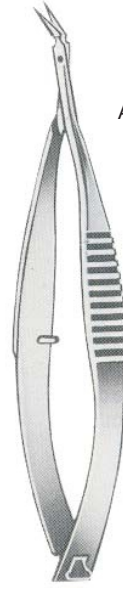
Straight

**Vannas**  
 14-02250-08  
 8cm/3 1/4"



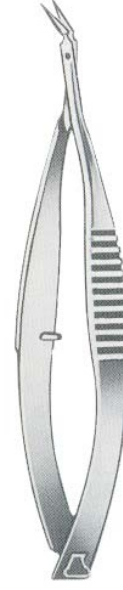
Curved

**Vannas**  
 14-02253-08  
 8cm/3 1/4"



Angular

**Vannas**  
 14-02255-08  
 8cm/3 1/4"

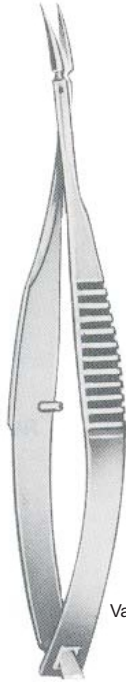


**Vannas**  
 14-02257-08  
 8cm/3 1/4"



Straight

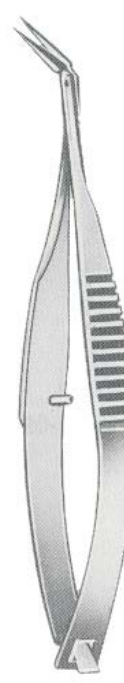
14-02260-08  
 8.5cm/3 1/4"



Curved

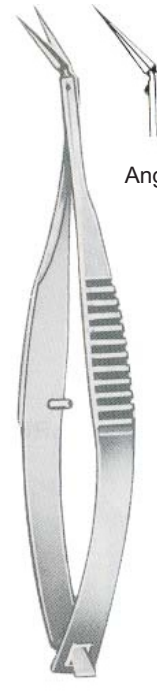
VannasMod, Tübingen

14-02263-08  
 8.5cm/3 1/2"



Angular

14-02265-08  
 8.5cm/3 1/2"

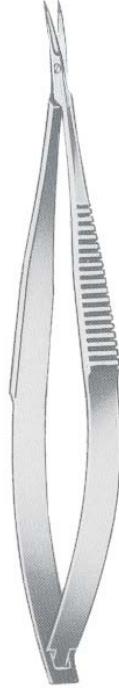


Angular

14-02267-08  
 8.5cm/3 1/2"



14-02270-10  
10cm/4"



14-02271-10  
10cm/4"



**Castroviejo**  
14-02273-10  
10cm/4"



**Castroviejo**  
14-02275-10  
10cm/4"



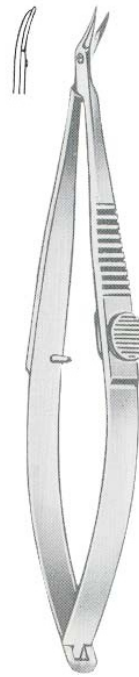
**Aebli**  
14-02277-10  
10cm/4"



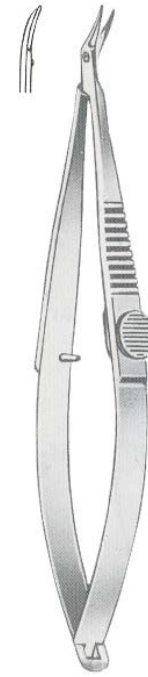
**Castroviejo**  
14-02281-10  
10cm/4"



**Castroviejo**  
14-02283-10  
10cm/4"



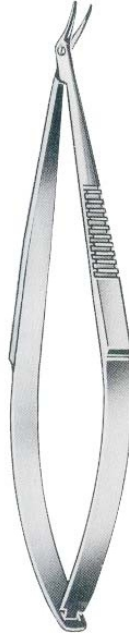
**Troutman-Barraquer**  
14-02285-10  
10cm/4"



**Troutman-Barraquer**  
14-02287-10  
10cm/4"



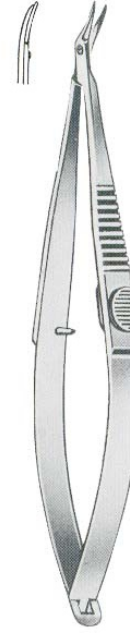
**Troutman**  
 14-02291-10  
 10cm/4"



**Troutman**  
 14-02293-10  
 10cm/4"



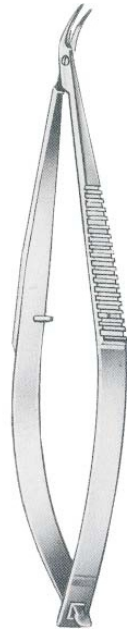
**Katzin-Barraquer**  
 14-02295-10  
 10cm/4"



**Katzin-Barraquer**  
 14-02297-10  
 10cm/4"



**Katzin**  
 14-02301-11  
 10cm/4"



**Katzin**  
 14-02303-11  
 10cm/4"



**Westcott**  
 14-02307-11  
 11cm/4 1/2"



**Westcott**  
 14-02309-11  
 11cm/4 1/2"



**Westcott**  
 14-02311-11  
 11cm/4 1/2"





**Castroviejo**  
14-02315-10  
10cm/4"



**Castroviejo**  
14-02317-10  
10cm/4"



**Castroviejo**  
14-02321-11  
11.5cm/4 1/2"



**Castroviejo**  
14-02323-11  
11.5cm/4 1/2"



**Troutmann-Castroviejo**  
14-02327-10  
10.5cm/4 1/4"



**Troutmann-Castroviejo**  
14-02329-10  
10.5cm/4 1/4"

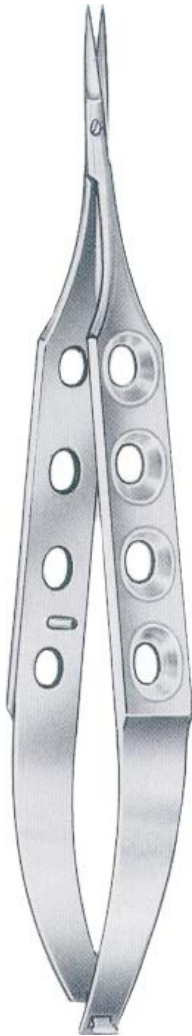


**Straight**  
14-02332-14  
14-02332-18

**Curved**  
14-02333-14  
14-02333-18

14.5cm/5 3/4"  
18.0cm/7"





**Straight**

14-02336-12 12.0cm/4 3/4"  
 14-02336-16 16.0cm/6 1/4"  
 14-02336-18 18.5cm/7 1/4"



**Curved**

14-02337-12 12.0cm/4 3/4"  
 14-02337-16 16.0cm/6 1/4"  
 14-02337-18 18.5cm/7 1/4"



**Vannas  
Straight**

14-02340-12 12.0cm/4 3/4"  
 14-02340-16 16.0cm/6 1/4"



**Vannas  
Curved**

14-02341-12 12.0cm/4 3/4"  
 14-02341-16 16.0cm/6 1/4"



**Yasargil**

16.5cm/6½"  
 20.0cm/8"

20.0cm/8"

20.0cm/8"



**Straight**  
 14-02344-16  
 14-02344-20



**Curved**  
 14-02345-16  
 14-02345-20



**CurvedDownwards**  
 14-02347-20

**DissectingScissors**



**Straight**  
 14-02350-20



**Curved**  
 14-02351-20



Yasargil

22.5cm/9"



Straight  
 14-02354-22  
 14-02354-24



Curved  
 14-02355-22  
 14-02355-24



22.5cm/9"  
 CurvedDownwards  
 14-02357-22

DissectingScissors



Straight  
 14-02360-22



Curved  
 14-02361-22



**Jacobson**  
18cm/7"

14-02364-18



14-02370-19

14-02365-18



14-02371-19

14-02367-18



14-02373-19



14-02376-19



14-02377-19



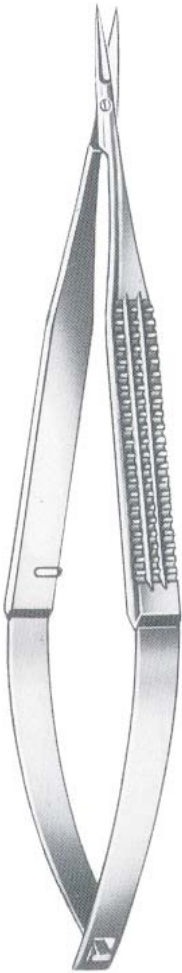
19cm/7½"

chirurgische allgemeine Instrumente

Instrumental quirúrgicos general

Strumenti chirurgici generali

## VeinScissors



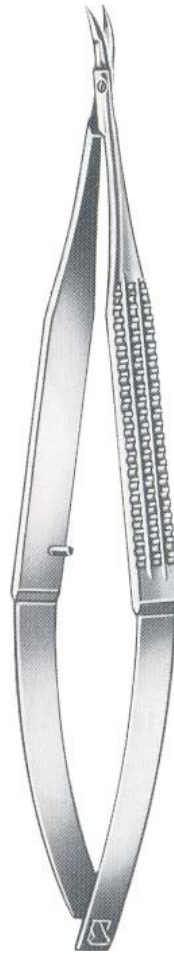
Straight  
14-02384-12  
12cm/4¾"



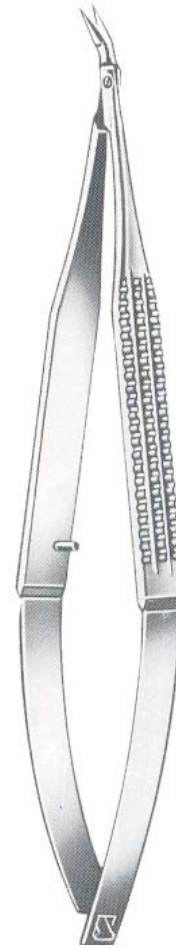
Curved  
14-02385-12  
12cm/4¾"



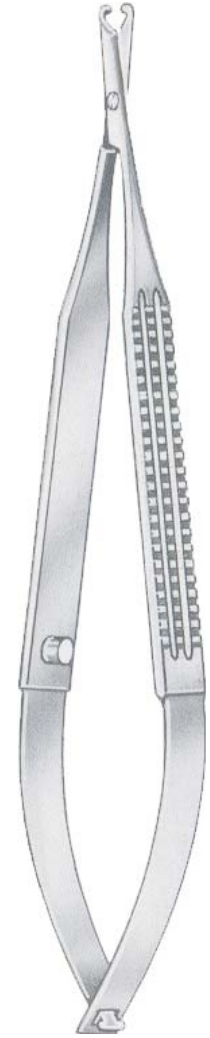
Straight  
14-02392-12  
12cm/4¾"



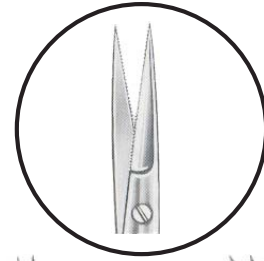
Curved  
14-02393-12  
12cm/4¾"



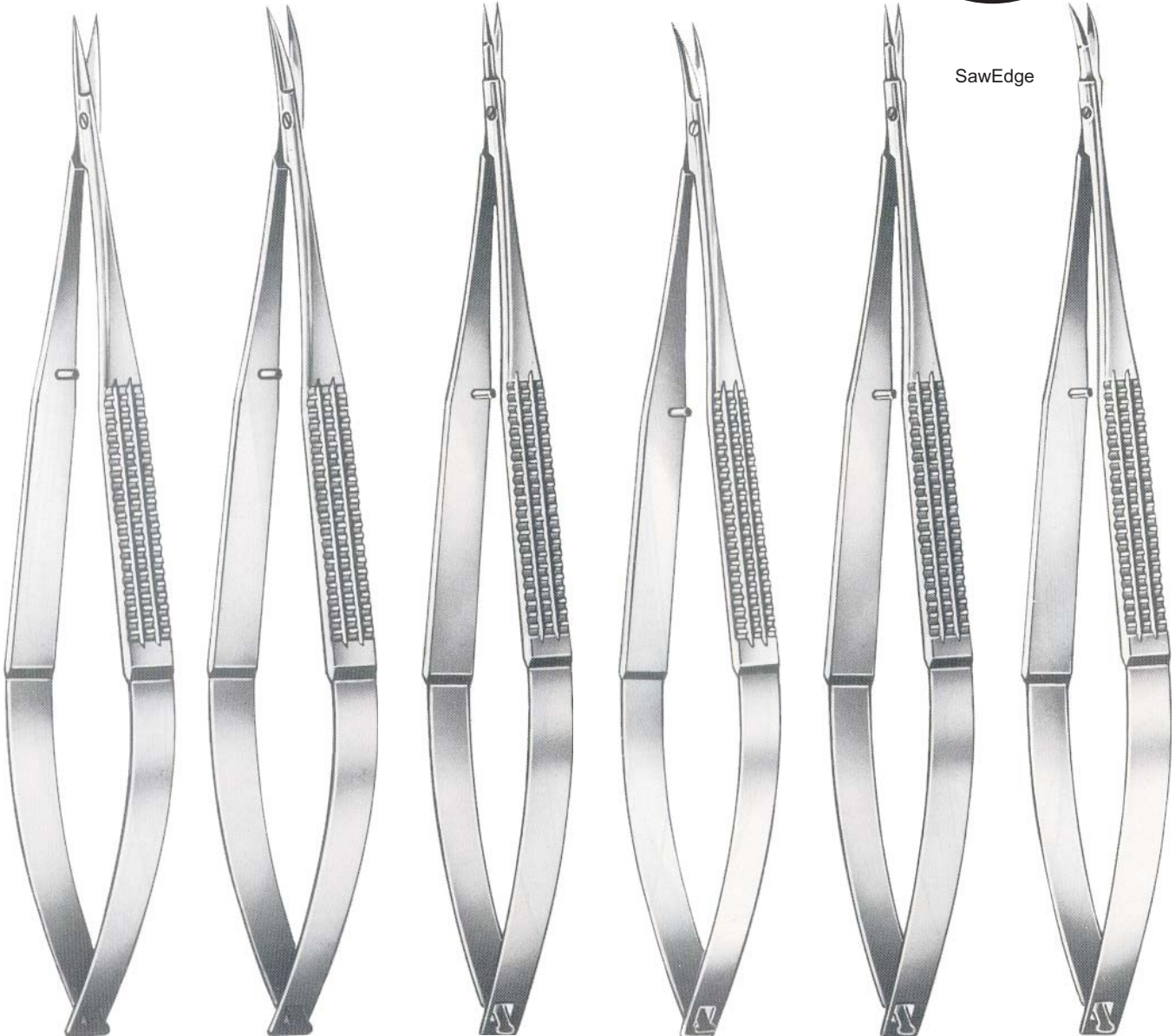
Angledup  
14-02395-12  
12cm/4¾"



Straight  
14-02400-13  
13cm/5½"



SawEdge



Straight  
14-02404-16  
16cm/6¼"

Curved  
14-02405-16  
16cm/6¼"

Straight  
14-02408-16  
16cm/6¼"

Curved  
14-02409-16  
16cm/6¼"

**Milled**  
Straight  
14-02412-16  
16cm/6¼"

**Milled**  
Curved  
14-02413-16  
16cm/6¼"





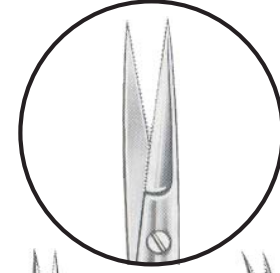
Straight  
14-02416-18  
18.5cm/7¼"



Curved  
14-02417-18  
18.5cm/7¼"



Angular  
14-02421-18  
18.5cm/7¼"



SawEdge



Straight  
 14-02424-16  
 16cm/6¼"



Curved  
 14-02425-16  
 16cm/6¼"



Straight  
 14-02428-16  
 16cm/6¼"



Curved  
 14-02429-16  
 16cm/6¼"



Straight  
 14-02432-16  
 16cm/6¼"



Curved  
 14-02433-16  
 16cm/6¼"



Straight  
14-02436-18  
18.5cm/7¼"



Curved  
14-02437-18  
18.5cm/7¼"



Angular  
14-02441-18  
18.5cm/7¼"



Straight  
14-02444-23  
23cm/9"

## Dissecting Scissors



Straight  
14-02448-14  
14.5cm/5¾"



Curved  
14-02449-14  
14.5cm/5¾"



Curved  
14-02451-14  
14.5cm/5¾"



## *PinsmedTC*







**Standard**

9.0 cm/3½"	14-02482-09	14-02483-09	14-02485-09	14-02487-09
10.5 cm/4¼"	14-02482-10	14-02483-10	14-02485-10	14-02487-10
11.5 cm/4½"	14-02482-11	14-02483-11	14-02485-11	14-02487-11



**Fine**

**Fine**

9.0cm/3¾"			14-02496-09	14-02497-09
10.5cm/4¼"	14-02492-10	14-02493-10	14-02496-10	14-02497-10
11.5cm/4½"	14-02492-11	14-02493-11	14-02496-11	14-02497-11





<sup>14</sup> Straight  
**Fine**

9.5 cm/3¾"	14-02500-09
10.5 cm/4 1/8"	14-02500-10
11.5 cm/4½"	14-02500-11



Curved  
**Fine**

14-02501-09
14-02501-10
14-02501-11



Straight

Curved

14-02504-10	10cm/4"	14-02505-10
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## Tenotomy Scissors



10.5cm/4¼"  
11.5cm/4½"



Pointed



Curved



Blunt



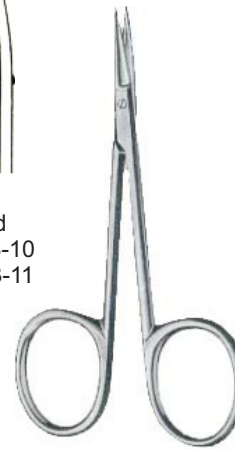
Curved

Straight
14-02508-10
14-02508-11

Curved
14-02509-10
14-02509-11

Straight
14-02512-10
14-02512-11

Curved
14-02513-10
14-02513-11



Straight  
14-02516-08



8cm/3¼"  
**Bonn**  
Curved  
14-02517-08



**Graefe**  
14-02520-10  
10.5cm/4¼"



**Wilmer**  
14-02521-10  
10cm/4"



14-02524-11

11.5cm/4½"



14-02525-11

## *PinsmedTC*

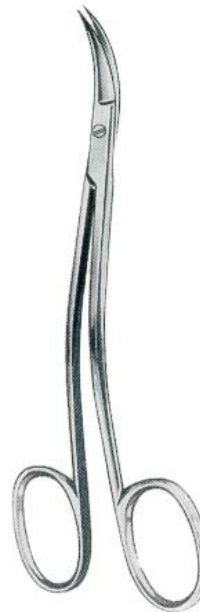


**Straight**  
14-02528-11

11.5cm/4½"



**Curved**  
14-02529-11

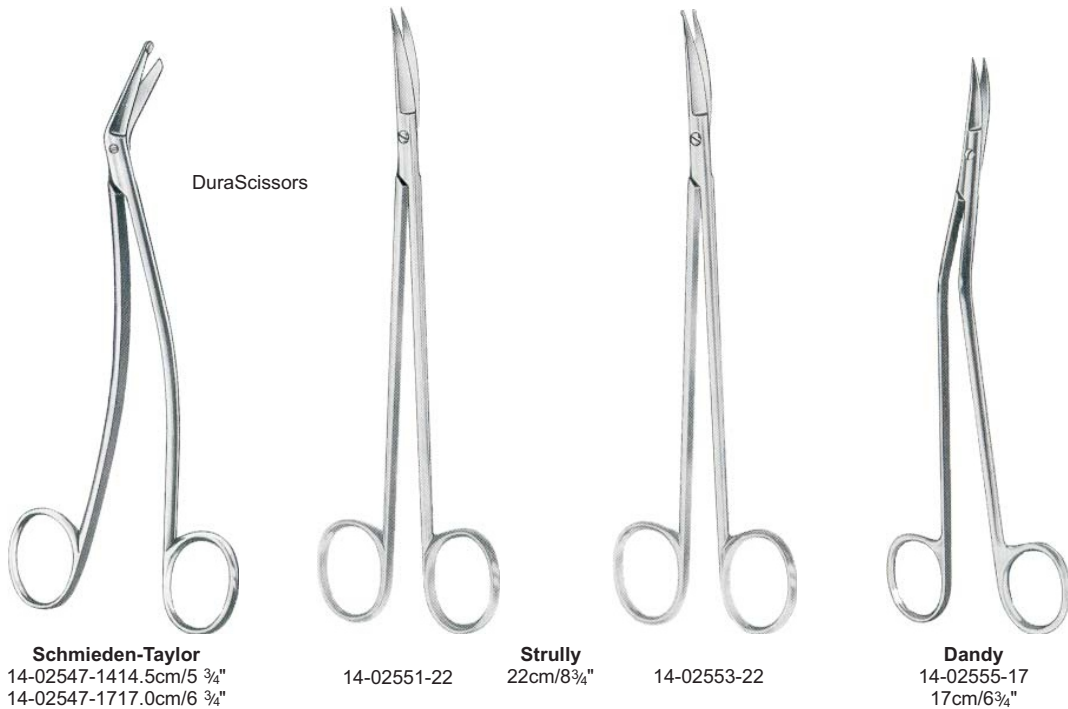
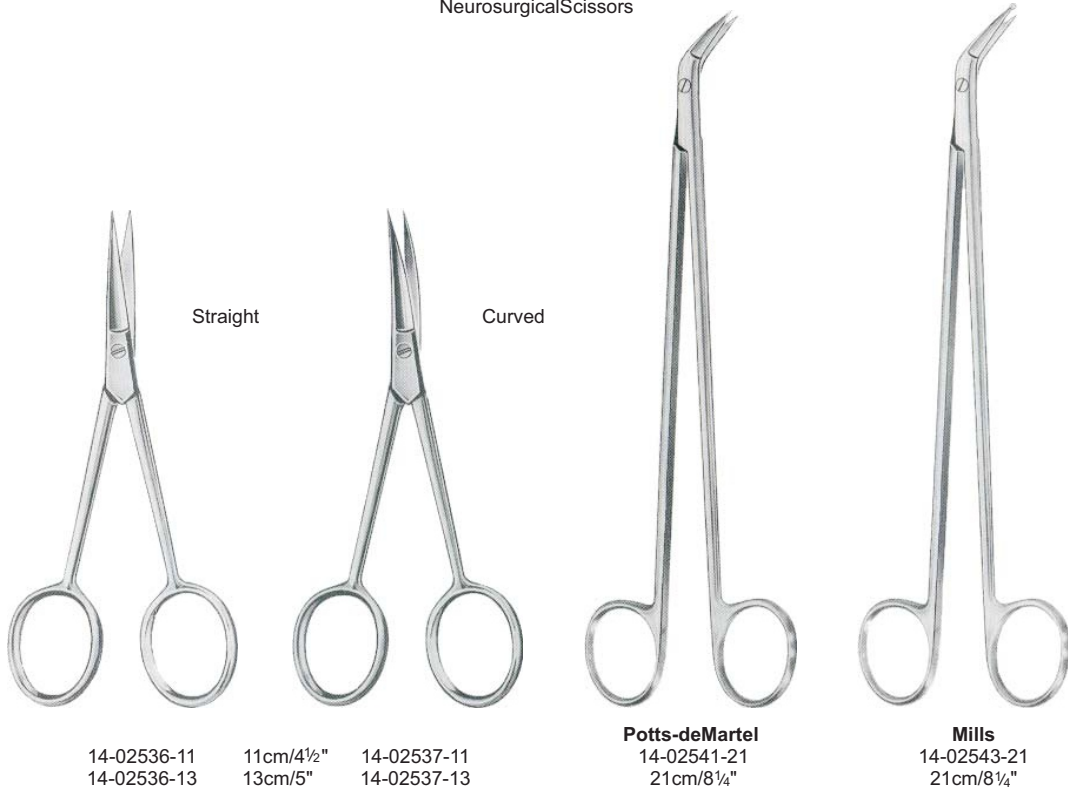


**LaGrange**  
14-02532-11  
11.5cm/4½"



**Chadwick**  
14-02533-11  
11cm/4½"

## Neurosurgical Scissors





**Littauer**  
14-02559-14  
14cm/5"



**Spencer**  
14-02563-09  
9cm/3½"



**Spencer**  
14-02565-10 10.5cm/4¼"  
14-02565-12 12.0cm/4¾"



**Spencer-Fine**  
14-02567-11 11.5cm/4½"  
14-02567-16 16cm/6¼"



**Shortbent**  
14-02571-09  
9cm/3½"



**Northbent**  
14-02575-12  
12.5cm/5"



**Spencer**  
14-02579-11  
11.5cm/4½"



**Littler**  
14-02583-11  
11.5cm/4½"



**Heath**  
14-02587-15  
15cm/6"



14-02591-10  
10cm/4"



**Eiselsberg**  
14-02595-11  
11.5cm/4½"



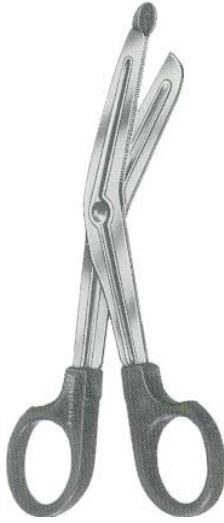
WireCuttingScissors

**Schoemaker-Loth**  
14-02599-12  
12.5cm/5"



SawEdge

**Universal**  
14-02603-12  
12cm/4¾"



**Universal**

Black	14-02607-01
Blue	14-02607-02
Red	14-02607-03
Green	14-02607-04

14.5cm/5 3/4"



**Universal**

Black	14-02609-01
Blue	14-02609-02
Red	14-02609-03
Green	14-02609-04

16cm/6 1/4"



**Universal**

Black	14-02611-01
Blue	14-02611-02
Red	14-02611-03
Green	14-02611-04

18cm/7"



**Smith**

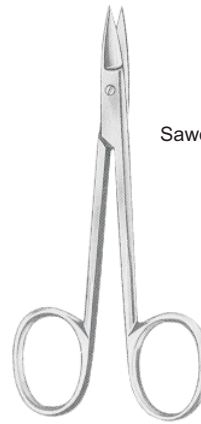
14-02615-17  
17.5cm/7"



Sawedge

**Harvey**

14-02618-12  
12.5cm/5"



Sawedge

**Schuknecht**

14-02622-10  
10cm/4"

Nail Splinting Scissors



14-02626-13 13cm/5"  
14-02626-15 15cm/6"



## PinsmedTC



**Lister**

14-02629-09 09.0cm/3 1/2"  
 14-02629-11 11.5cm/4 1/2"  
 14-02629-14 14.0cm/5 1/2"  
 14-02629-15 15.5cm/6"  
 14-02629-18 18.0cm/7"  
 14-02629-20 20.0cm/8"



**Lister**

14-02631-18  
 18cm/7"



**Lister**

14-02633-18 18.5cm/7 1/4"  
 14-02633-21 21.0cm/8 1/4"



**Lister-Excentric**

14-02637-16 16cm/6 1/4"  
 14-02637-19 19cm/7 1/2"



**Esmarch**

14-02641-2020cm/8"  
 14-02641-2222cm/8 3/4"



**Bergmann**

14-02645-23  
 23cm/9"



**Lorenz**

14-02649-23  
 23cm/9"



Sawedge

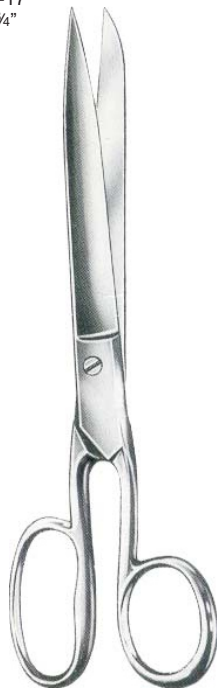
14-02653-17  
 17cm/6 ¾"



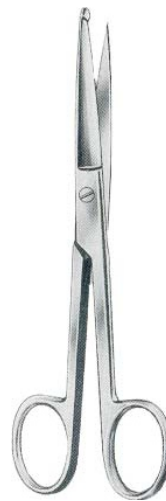
**Lange**  
 14-02657-18  
 18cm/7"



**Bruns**  
 14-02661-2424cm/9 ½" Sawedge  
 14-02663-2424cm/9 ½" Smooth  
 14-02667-2424cm/9 ½" **PinsmedTC**



**Smith (Mod. USA)**  
 14-02671-18 18cm/7"  
 14-02671-20 20cm/8"  
 14-02671-23 23cm/9"



**Knowles**  
 14-02674-14  
 14cm/5 ½"



**Knowles**  
 14-02675-14  
 14cm/5 ½"



14-02679-13  
 13cm/5"



14-02683-20  
20cm/8"



**Seutin**  
14-02687-23  
23cm/9"



14-2691-23  
23cm/9"



**Collin**  
14-02695-22  
22cm/8 3/4"



**Gluck**  
14-02699-22  
22cm/8 3/4"



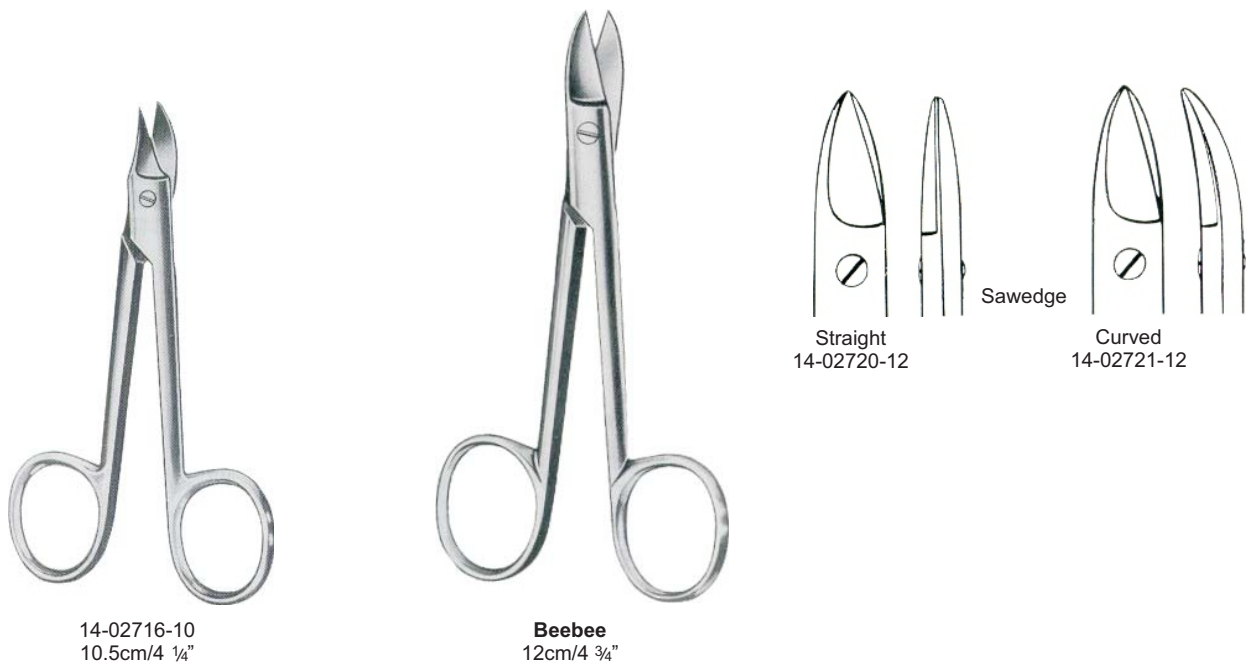
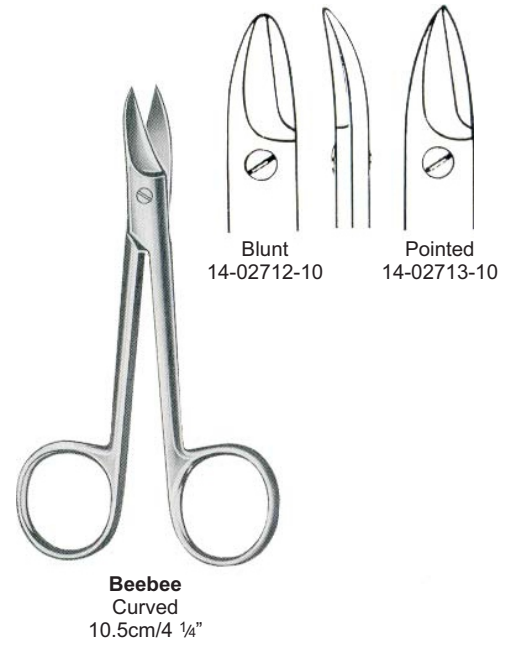
**Stille**  
14-02701-21  
21cm/8 1/4"



**Stille**  
14-02703-24  
24cm/9 1/2"



**Stille**  
14-02705-23 23cm/9"  
14-02705-26 26cm/10 1/4"  
14-02705-37 37cm/14 1/2"





Sawedge

**Goldmann-Fox**  
14-02724-13  
13cm/5"



**Goldmann-Fox**  
14-02725-13  
13cm/5"



**Niro**  
14-02729-14  
14cm/5 1/2"



Sawedge

**Goldmann-Fox (Spezial)**  
14-02733-13  
13cm/5"



14-02737-11  
11.5cm/4 1/2"

Fine



**Quinby**  
14-02740-12  
12cm/4 3/4"



**Quinby**  
14-02741-12  
12cm/4 3/4"





Sawedge

**Dean**  
14-02745-17  
17cm/6 3/4"



**Dean**  
14-02747-17  
17cm/6 3/4"



Sawedge

**Locklin**  
14-02751-16  
16.5cm/6 1/2"



**Locklin**  
14-02753-16  
16.5cm/6 1/2"



Sawedge

**Sullivan**  
14-02758-14  
14.5cm/5 3/4"



**Sullivan**  
14-02759-14  
14.5cm/5 3/4"



**Neumann**  
14-02763-12  
12.5cm/5"



Sawedge

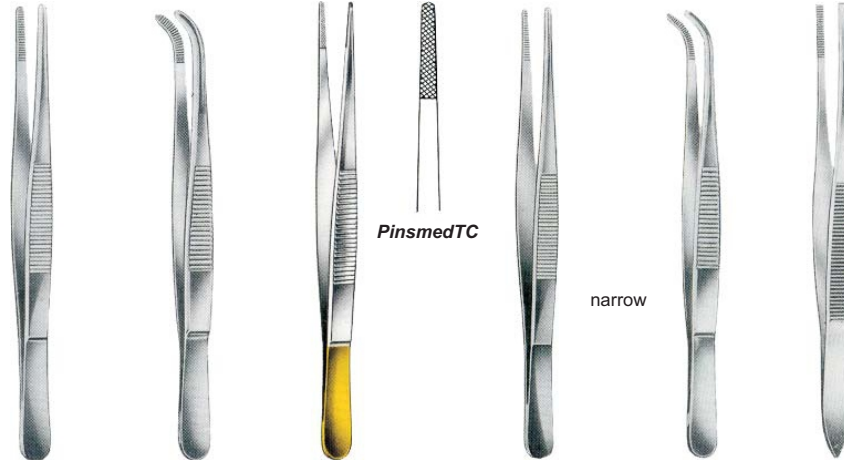
**LaGrange**  
14-02765-11  
11.5cm/4 1/2"



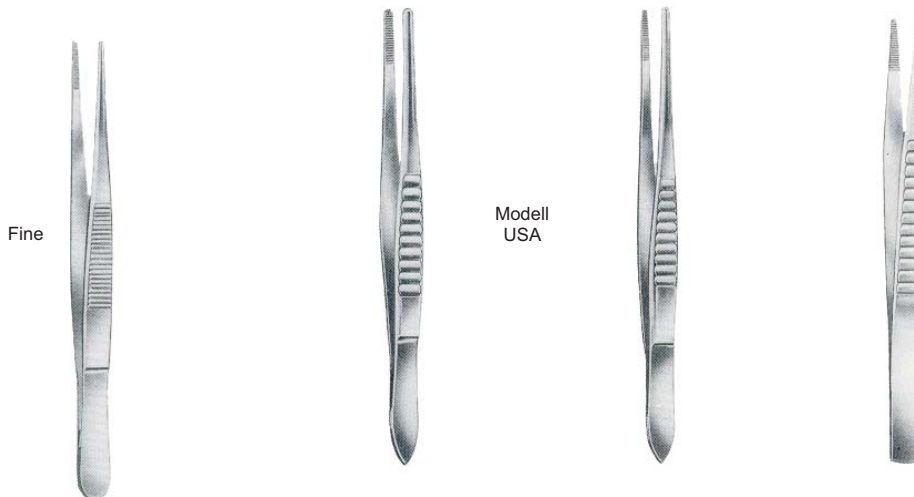


## Nailscissors





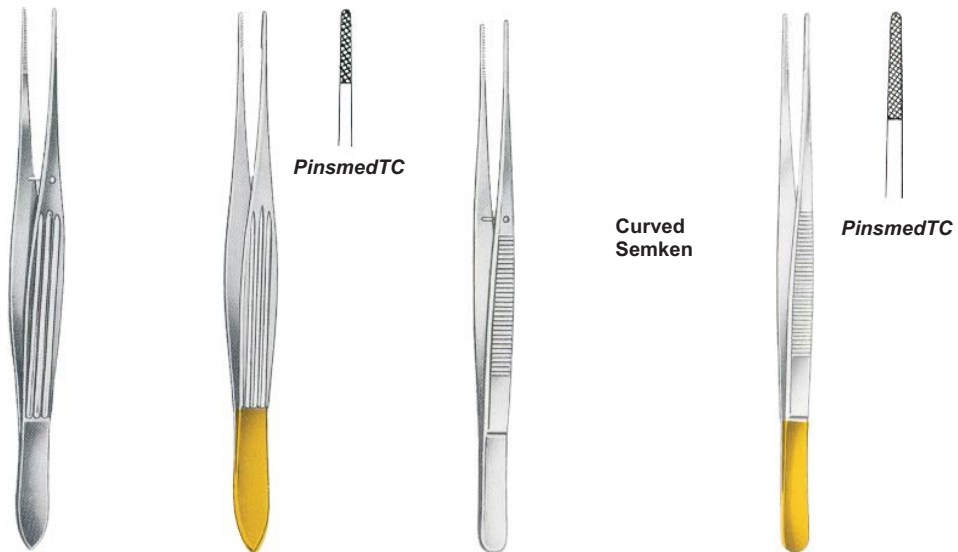
cm	in	Standard	Standard	Standard			Stille
10.5	4 1/4"	15-02788-10					
11.5	4 1/2"	15-02788-11	15-02789-11			15-02796-11	15-02797-11
13.0	5"	15-02788-13	15-02789-13			15-02796-13	15-02797-13
14.5	5 3/4"	15-02788-14	15-02789-14	15-02792-14		15-02796-14	15-02797-14
15.0	6"	15-02788-15					
16.0	6 1/4"	15-02788-16	15-02789-16	15-02792-16		15-02796-16	15-02797-16
17.0	6 3/4"						15-02802-17
18.0	7"	15-02788-18	15-02789-18	15-02792-18		15-02796-18	15-02797-18
20.0	8"	15-02788-20	15-02789-20	15-02792-20		15-02796-20	15-02797-20
25.0	10"	15-02788-25	15-02789-25	15-02792-25		15-02796-25	15-02797-25
30.0	12"	15-02788-30	15-02789-30			15-02796-30	15-02797-30



cm	in	Standard	Narrow	Engl.Modell
11.5	4 1/2"	15-02806-11		
12.0	4 3/4"		15-02810-12	
13.0	5"	15-02806-13	15-02810-13	15-02814-13
14.5	5 3/4"	15-02806-14	15-02810-14	15-02814-14
15.0	6"	15-02806-15	15-02810-15	15-02814-15
16.0	6 1/4"	15-02806-16		
18.0	7"	15-02806-18		
20.0	8"	15-02806-20		
21.0	8 1/4"		15-02810-21	
25.0	10"		15-02810-25	
30.0	12"		15-02810-30	

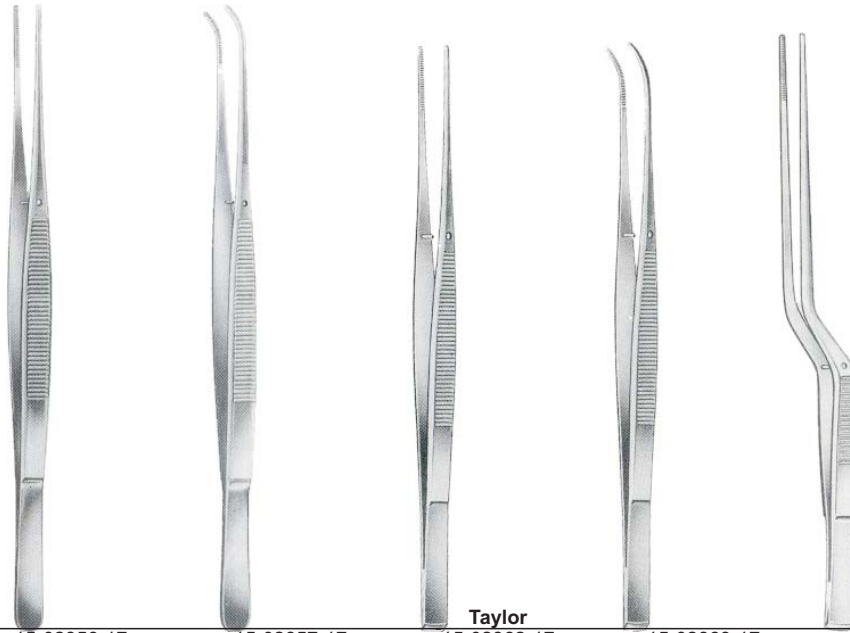


cm	in	Ewald	Jacobson-Adson	Micro-Adson	Adson-Standard	Adson
12.0	4¾"	15-02822-12	15-02826-12	15-02830-12	15-02834-12	15-02838-12
15.5	6"	15-02822-15	15-02826-15	15-02830-15	15-02834-15	15-02838-15



cm	in	McIndoe	McIndoe	Semken	Semken	Semken
12.0	4¾"			15-02848-12	15-02849-12	15-02852-12
15.0	6"	15-02842-15	15-02844-15	15-02848-15	15-02849-15	15-02852-15

With Dissector



15-02856-17

15-02857-17

**Taylor**  
15-02862-17  
17.5cm/7"

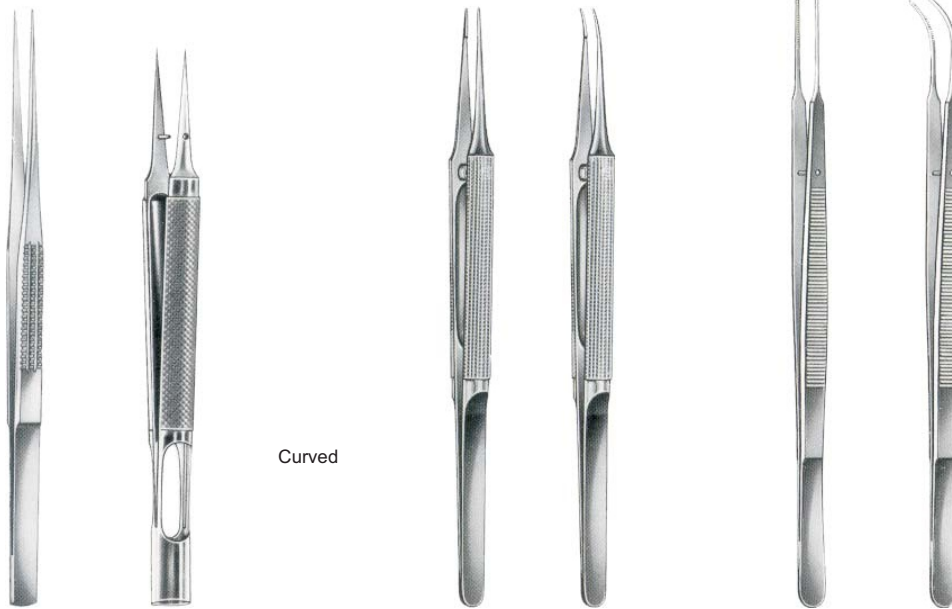
15-02863-17

15-02867-17

Smooth Jaw



cm	in	Waugh		Bonney		Brophy	Brophy
15.0	6"	15-02870-15					
18.0	7"	15-02870-18	15-02874-18		15-02882-18		
20.0	8"	15-02870-20	15-02874-20	15-02878-20		15-02886-18	15-02887-18



Curved

Gerald

cm	in						
12.0	4¾"			15-02898-12	15-02899-12		
13.0	5"	15-02894-13	15-02895-13				
15.0	6"	15-02890-15		15-02898-15	15-02899-15		
17.5	7"					15-02902-17	15-02903-17
18.0	7"	15-02890-18		15-02898-18	15-02899-18		

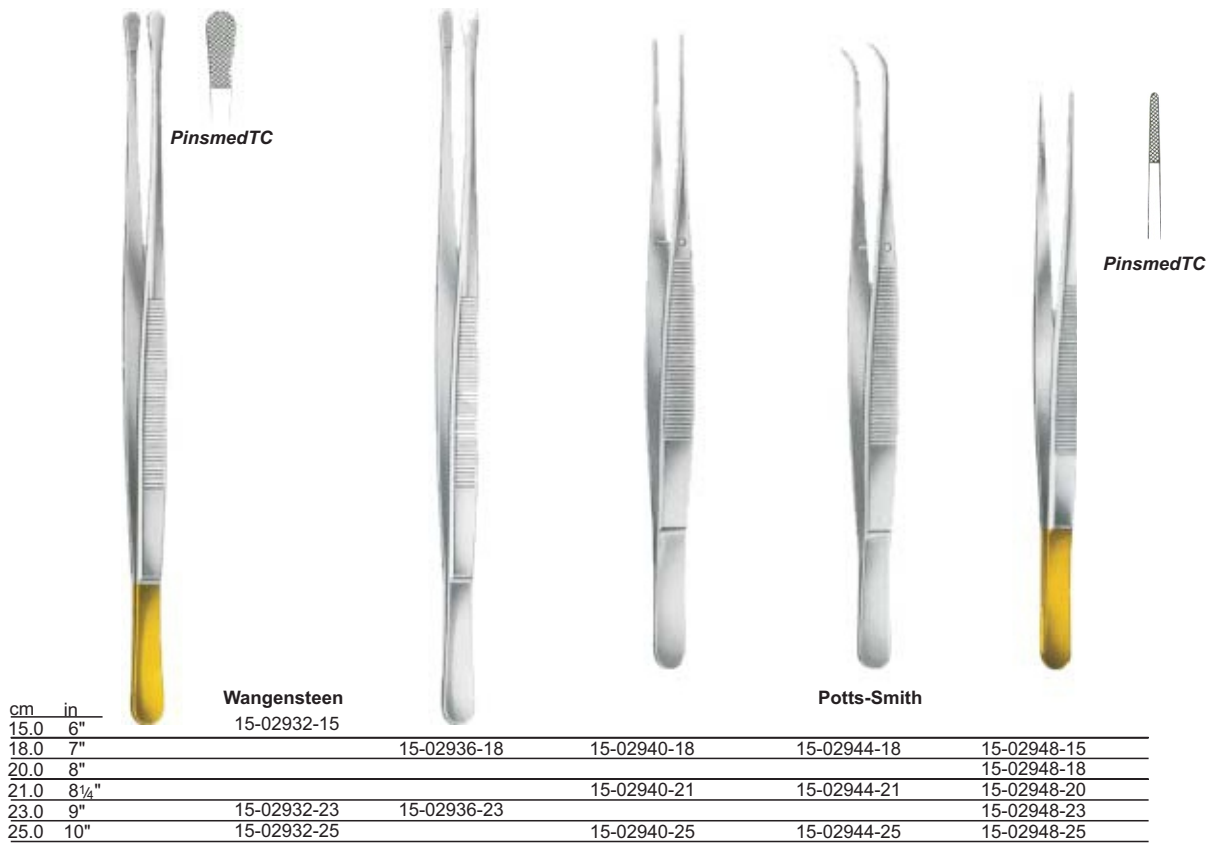
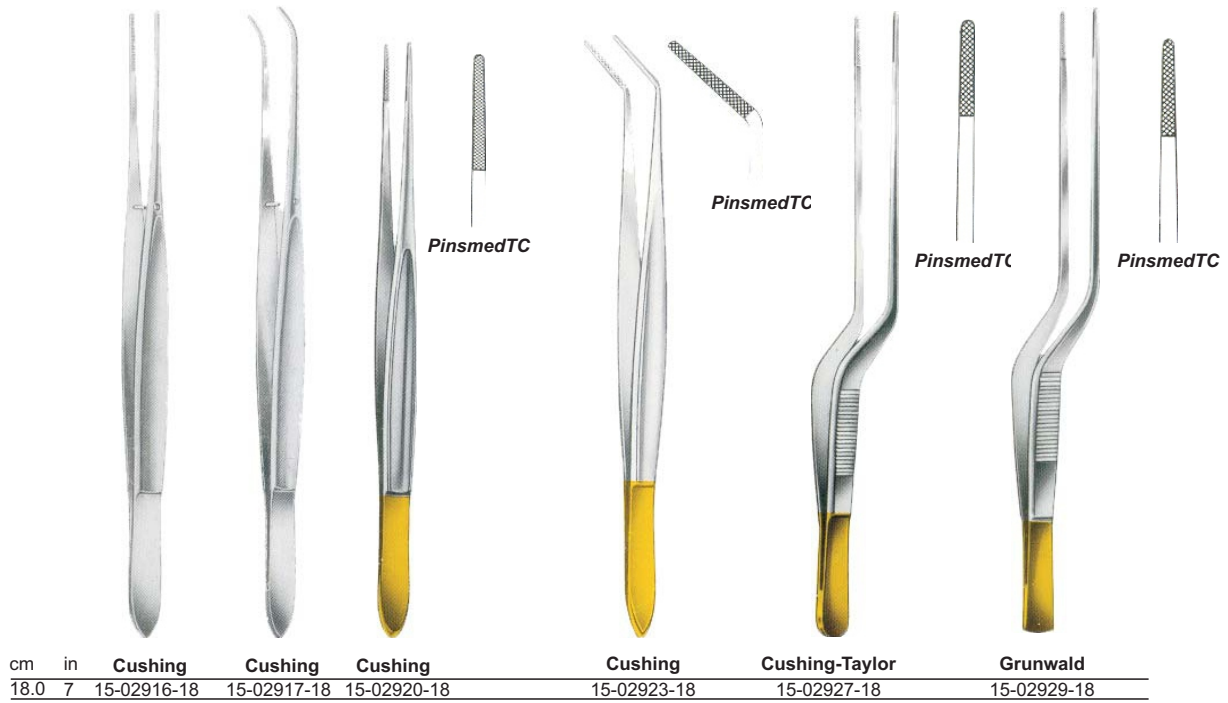
MicroTubalForceps



**Austin**  
 15-02906-14  
 14cm/5½"

**Austin**  
 15-02908-18  
 18cm/7"

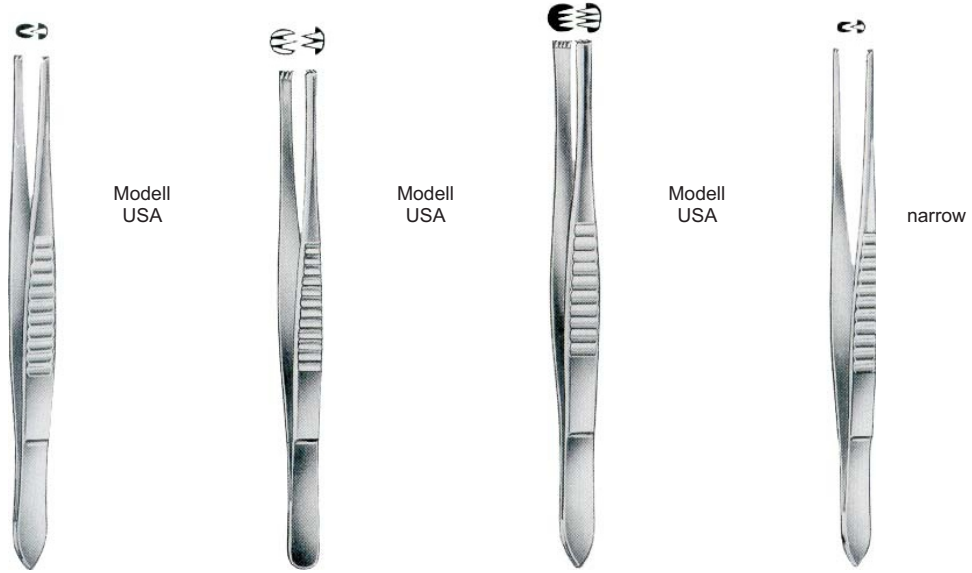
**Neubuser**  
 15-02912-20  
 20cm/8"







cm	in	Standard 1:2	Oehler 1:2	Standard 2:3	Standard 3:4	Standard 4:5	1:2
10.5	4 ¼"	15-02952-10					
11.5	4 ½"	15-02952-11					
13.0	5"	15-02952-13		15-02960-13	15-02964-13	15-02968-13	15-02972-13
14.5	5 ¾"	15-02952-14	15-02956-14	15-02960-14	15-02964-14	15-02968-14	15-02972-14
15.0	6"	15-02952-15					
16.0	6 ¼"	15-02952-16	15-02956-16	15-02960-16	15-02964-16	15-02968-16	15-02972-16
18.0	7"	15-02952-18	15-02956-18	15-02960-18			15-02972-18
20.0	8"	15-02952-20	15-02956-20	15-02960-20			15-02972-20
25.0	10"	15-02952-25	15-02956-25	15-02960-25			15-02972-25
30.0	12"	15-02952-30	15-02956-30	15-02960-30			

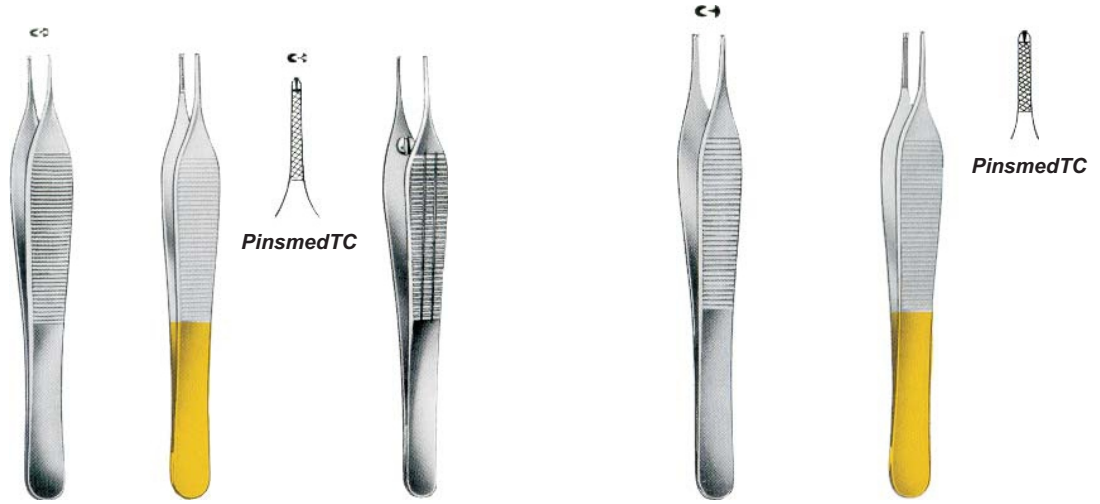


Standard

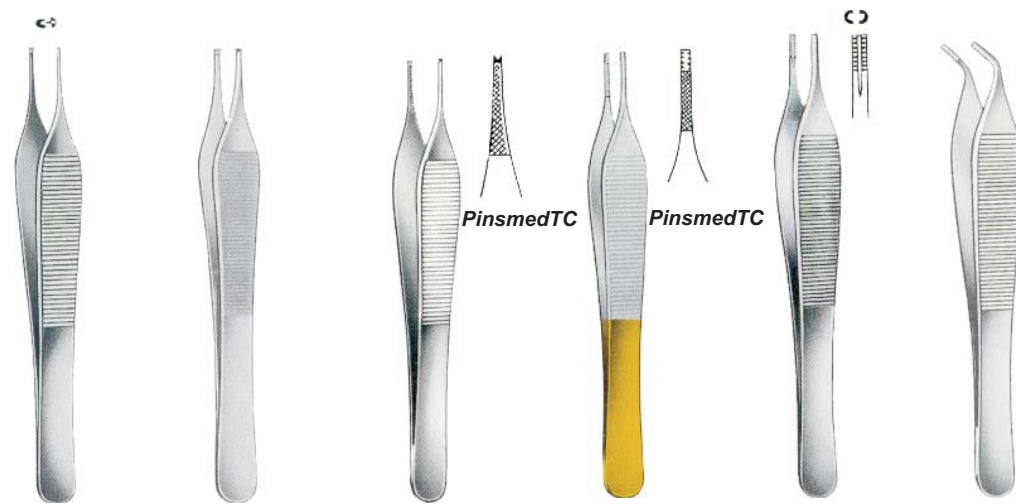
cm	in	1:2	2:3	3:4	1:2
12.0	4 <sup>3</sup> / <sub>4</sub> "	15-02976-12	15-02980-12		
13.0	5"	15-02976-13	15-02980-13		15-02988-13
14.5	5 <sup>3</sup> / <sub>4</sub> "	15-02976-14	15-02980-14	15-02984-14	15-02988-14
15.5	6"	15-02976-15			15-02988-15
18.5	7 <sup>1</sup> / <sub>4</sub> "	15-02976-18	15-02980-18		
21.0	8 <sup>1</sup> / <sub>4</sub> "	15-02976-21	15-02980-21		
25.0	10"	15-02976-25	15-02980-25		
31.0	12 <sup>1</sup> / <sub>4</sub> "	15-02976-31	15-02980-31		



cm	in	Lerche	Stone	Treves
13.0	5"			15-03000-13
15.0	6"	15-02992-15	15-02996-15	15-03000-15



cm	in	Micro-Adson			Ewald	Standard-Adson
12.0	4¾"	15-03004-12	15-03008-12	15-03012-12	15-03016-12	15-03020-12
15.5	6"	15-03004-15	15-03008-15	15-03012-15		15-03020-15



cm	in	Adson				Adson-Brown	
12.0	4¾"	15-03024-12	15-03028-12	15-03032-12	15-03036-12	15-03040-12	15-03041-12
15.0	6"	15-03024-15	15-03028-15				



**Gillies**  
15-03046-15  
15cm/6"



**Gillies**  
15-03050-15  
15cm/6"



**Brown**  
15-03054-15 15cm/6"  
15-03054-20 20cm/8"  
15-03054-25 25cm/10"



**Semken**  
15-03058-12 12cm/4"  
15-03058-15 15cm/6"  
3/4" 15-03062-12  
15-03062-15



**Adlerkreutz**  
15-03066-15 15cm/6"  
15-03066-20 20cm/8"  
15-03066-25 25cm/10"



**Adlerkreutz**  
15-03070-15 15cm/6"  
15-03070-20 20cm/8"  
15-03070-25 25cm/10"



**Taylor**  
15-03074-17  
17.5cm/7"



**Taylor**  
15-03075-17  
17.5cm/7"



**Taylor**  
15-03078-17  
17.5cm/7"



**Taylor**  
15-03079-17  
17.5cm/7"



cm	in	Waugh	Brophy	Brophy	Gerald	Gerald
15	6"	15-03082-15				
18	7"	15-03082-18			15-03092-18	15-03093-18
20	8"	15-03082-20	15-03086-20	15-03087-20		



**Cushing**  
15-03096-18  
17.5cm/7"



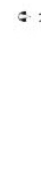
**Cushing**  
15-03097-18  
17.5cm/7"



**Potts-Smith**



15-04000-18  
15-04000-21  
15-04000-25



18cm/7"  
21cm/8 1/4"  
25cm/10"



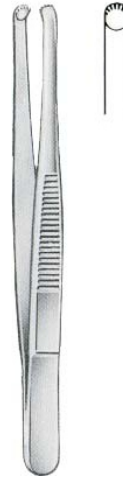
15-04001-18  
15-04001-21  
15-04001-25



**Duval**  
15-04004-14 14.5cm/5 3/4"



**Collin-Duval**  
15-04008-20 20cm/8"



**Durante**  
15-04012-14 14.5cm/5 3/4"  
15-04012-16 16.0cm/6 1/4"  
15-04012-20 20.0cm/8"



**Russ Modell**  
15-04016-15 15cm/6"  
15-04016-20 20cm/8"  
15-04016-25 25cm/10"



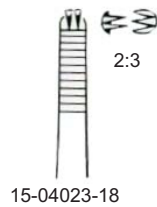
**Mayo**  
15-04020-23 23cm/9"



**Ferris-Smith**  
18cm/7"



15-04022-18



15-04023-18

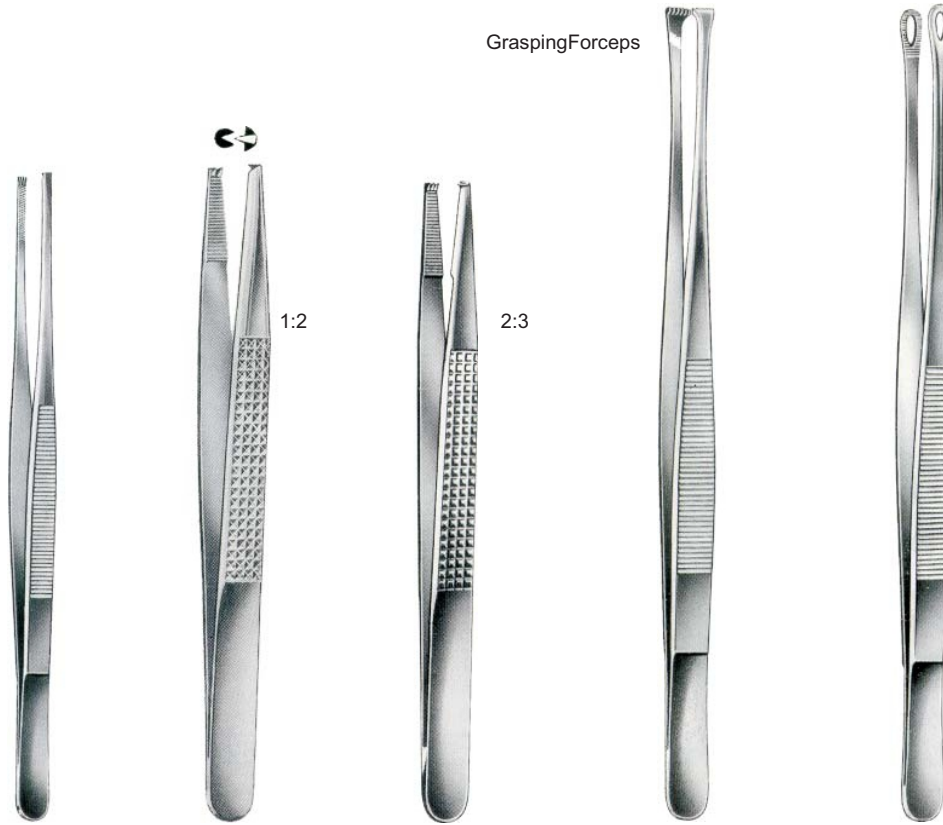


**Lane**  
15-04026-14 14.5cm/5 3/4"  
15-04026-20 20.0cm/8"  
15-04028-14  
15-04028-20



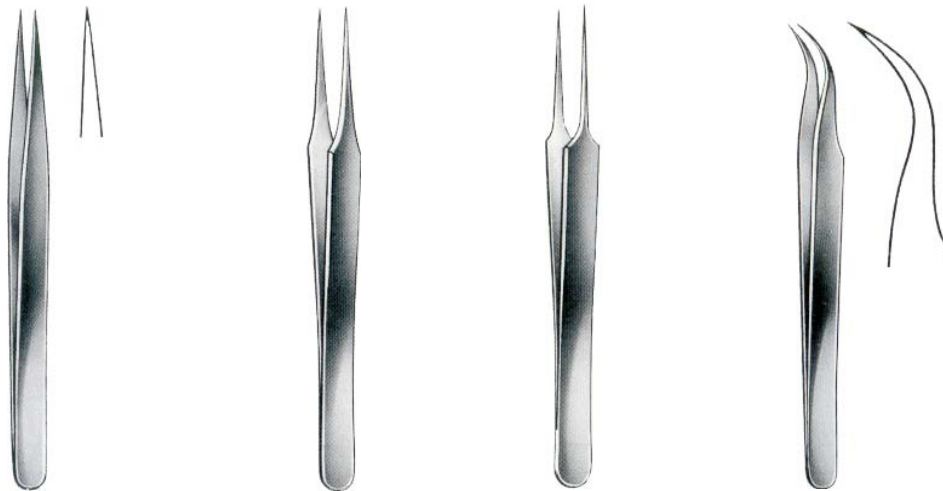


## Grasping Forceps



cm	in	Stille-Barraya	Bonney	Bonney	Nelson	Singley-Tuttle
15.0	6"				15-04042-15	
18.0	7"	15-04032-18	15-04036-18	15-04038-18	15-04042-18	15-04046-18
20.0	8"	15-04032-20			15-04042-23	
23.0	9"					15-04046-23
25.0	10"	15-04032-25				

## Watchmaker's Forceps



No.3  
15-04050-03  
11.5cm/4½"

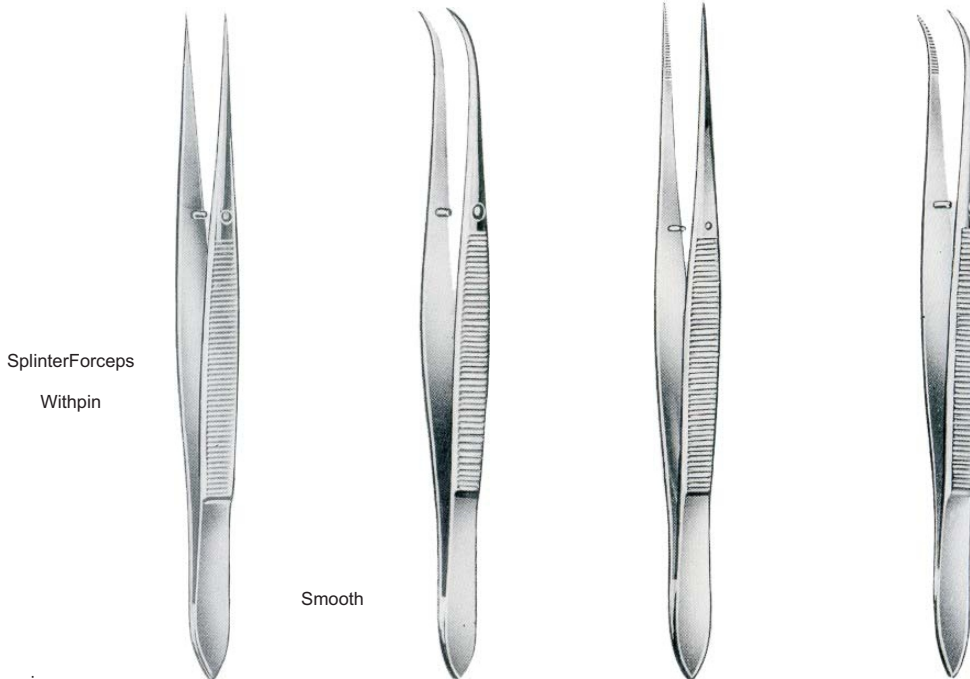
No.4  
15-04050-04  
11.5cm/4½"

No.5  
15-04050-05  
11.5cm/4½"

No.7  
15-04050-07  
11.5cm/4½"



cm	in					
10.5	4 1/4"	15-04054-10	15-04055-10	15-04057-10	15-04060-10	15-04061-10



cm	in				
9.0	3 1/2"	15-04066-09	15-04067-09	15-04070-09	15-04071-09
10.5	4 1/4"	15-04066-10	15-04067-10	15-04070-10	15-04071-10
11.5	4 1/2"	15-04066-11	15-04067-11	15-04070-11	15-04071-11
12.5	5"	15-04066-12	15-04067-12	15-04070-12	15-04071-12



**Feilchenfeld**  
 15-04074-07 7.5cm/3"  
 15-04074-09 9.0cm/3½"  
 15-04074-11 11.5cm/4½"



15-04078-10



**Hunter**  
 10.5cm/4¼" 15-04079-10



15-04082-10



**Walter-Carmalt**  
 10.5cm/4¼" 15-04083-10



**Peet**  
 15-04087-11  
 11.5cm/4½"



**Stieglitz**  
 13.5cm/5¼"

Without Ratchet

15-04090-13



With Ratchet

15-04094-13



**Ralk**  
 15-04098-15  
 15cm/6"



**Ralk**  
 15-04099-15  
 15cm/6"

## Ligature Forceps



**Ochsner**  
15-04102-14  
14.5cm/5¾"



**Adson**  
15-04106-12  
12cm/4¾"

1:2



**Adson**  
15-04108-12  
12cm/4¾"

## Cilia Forceps



**Beaupre**  
15-04111-12  
12cm/4¾"



**Henry**  
15-04115-12  
12cm/4¾"



**Gradle**  
15-04118-09  
9.5cm/3¾"



**Barraquer**  
15-04121-10  
10.5cm/4¼"



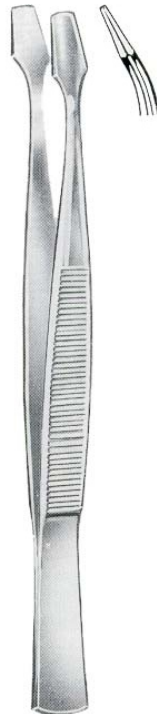
**Bennett**  
15-04124-07  
7cm/2¾"



cm	in	Beer	Douglas	Ziegler	
8.0	3 1/4"	15-04128-08			
9.0	3 1/2"	15-04128-09	15-04132-09	15-04136-09	15-04140-09



**Kuehne**  
 15-04144-10  
 10.5cm/4 1/4"



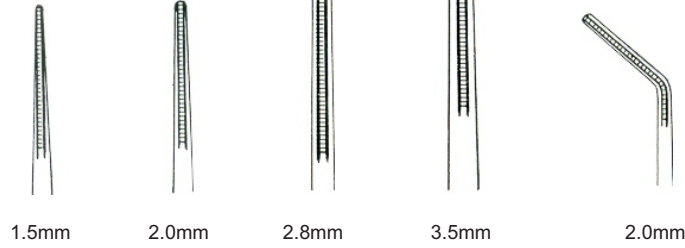
**Kuehne**  
 15-04145-10  
 10.5cm/4 1/4"



15-04148-10  
 10.5cm/4 1/4"



### Atrauma



cm	in	1.5mm	2.0mm	2.8mm	3.5mm	2.0mm
16.0	6¼"	15-04154-16	15-04156-16	15-04158-16	15-04160-16	15-04161-16
20.0	8"	15-04154-20	15-04156-20	15-04158-20	15-04160-20	15-04161-20
24.0	9½"	15-04154-24	15-04156-24	15-04158-24	15-04160-24	15-04161-24
30.0	12"	15-04154-30	15-04156-30	15-04158-30	15-04160-30	15-04161-30

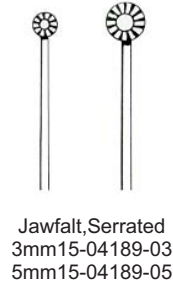
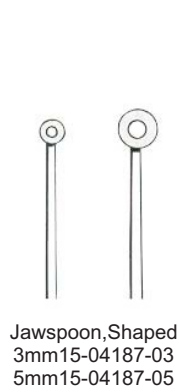


**Adson**  
15-04164-12 12cm/4 ¾"  
15-04164-15 15cm/6"



cm	in	Troeltsch (Wilde)	Troeltsch	Lucae	Lucae	Jansen (Gruenwald)	Jansen
11.5	4½"	15-04167-11					
12.0	4¾"	15-04167-12	15-04171-12	15-04175-14	15-04177-14		
14.0	5½"						
15.0	6"	15-04167-15					
16.0	6¼"					15-04181-16	15-04183-16
18.0	7"	15-04167-18				15-04181-18	15-04183-18
20.0	8"					15-04181-20	15-04183-20





**Yasargil**  
22cm/8½"



15cm/6"	15-04194-16	15-04196-16		
18cm/7"			15-04198-18	15-04200-18
22cm/8¾"	15-04194-22	15-04196-22	15-04198-22	15-04200-22



Yasargil

22cm/8¾"  
 24cm/9½"

∅ 3mm  
 15-04203-22  
 15-04203-24

∅ 5mm  
 15-04205-22  
 15-04205-24

∅ 7mm  
 15-04207-24

22cm/8¾"

∅ 3mm  
 15-04209-22

∅ 3mm  
 15-04211-22

∅ 5mm  
 15-04213-22

∅ 5mm  
 15-04215-22  
 22cm/8¾"



160mm/6 " "  
 18cm/7"  
 20cm/8"  
 22cm/8¾"  
 24cm/9½"

0.6mm  
 15-04219-16  
 15-04219-18  
 15-04219-20  
 15-04219-22  
 15-04219-24

0.9mm  
 15-04221-16  
 15-04221-18  
 15-04221-20  
 15-04221-22  
 15-04221-24

15-04223-18  
 18cm/7"

**Yasargil**



**Dieffenbach**  
16-04226-03  
3.5cm/1½"  
16-04226-05  
5cm/2"



**Dieffenbach**  
16-04227-03  
3.5cm/1½"  
16-04227-05  
5cm/2"

Straight

For Bulldog Clamps

- 16-04234-0138mm/1 ½"
- 16-04234-0251mm/2"
- 16-04234-0357mm/2 ¼"
- 16-04234-0463mm/2 ½"
- 16-04234-0570mm/2 ¾"
- 16-04234-0675mm/3"
- 16-04234-0790mm/3 ½"



**Johns-Hopkins**

Curved

- 16-04235-0138mm/1 ½"
- 16-04235-0251mm/2"
- 16-04235-0357mm/2 ¼"
- 16-04235-0463mm/2 ½"
- 16-04235-0570mm/2 ¾"
- 16-04235-0675mm/3"
- 16-04235-0790mm/3 ½"



**Johns-Hopkins**  
16-04237-24  
24.5cm/9¾"



**Dieffenbach**  
16-04230-06  
6cm/2½"



**Dieffenbach**  
16-04231-06  
6cm/2½"

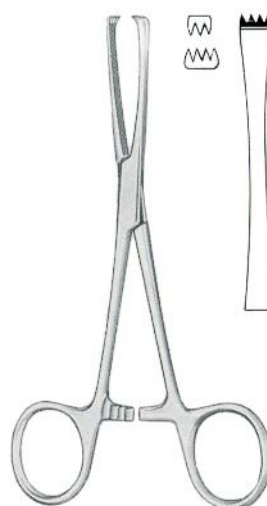
Haemorrhoidal Clamps



**Carrel**  
16-04240-10  
10cm/4"



**Chaput**  
16-04242-13  
13cm/5"



**Tuffier**  
16-04246-13  
13cm/5"



**Pratt**  
16-04250-15  
15cm/6"



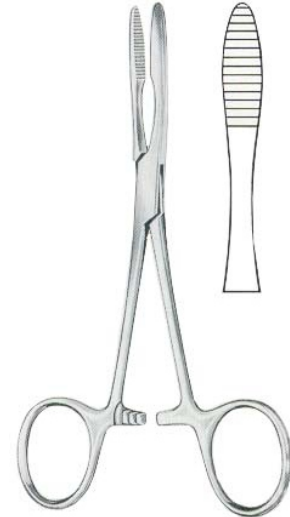
**Terrier**  
16-04254-10 10cm/4"



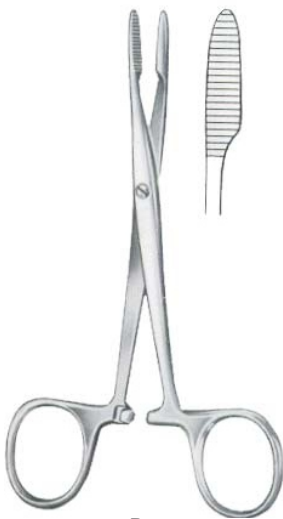
**Pennington**  
16-04258-15 15cm/6"  
16-04558-20 20cm/8"



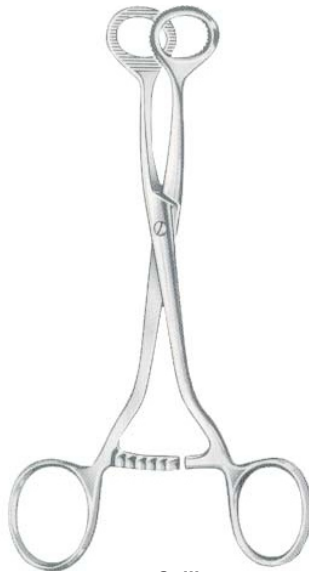
**Peau**  
16-04262-12 12.5cm/5"



**Peau**  
16-04266-14 14cm/5 3/4"  
16-04566-16 16cm/6 1/4"



**Peau**  
16-04270-14 14cm/5 1/2"



**Collin**  
16-04274-15 15.5cm/6"



**Collin**  
16-04278-14 14cm/5 1/2"



**Collin**  
16-04282-16 16.5cm/6 1/2"



**Hartmann**  
10cm/4"



16-04286-10



16-04290-10



16-04287-10



16-04291-10



**Halstead-Mosquito**  
12cm/4 3/4"  
14cm/5 1/2"



16-04294-12  
16-04294-14



16-04295-12  
16-04295-14



16-04298-12  
16-04298-14



16-04299-12  
16-04299-14



**Micro-Mosquito**  
10cm/4"  
12cm/4 3/4"



16-04302-10  
16-04302-12



16-04303-10  
16-04303-12



16-04306-10  
16-04306-12



16-04307-10  
16-04307-12



**Jacobson-Halstead**  
13cm/5"

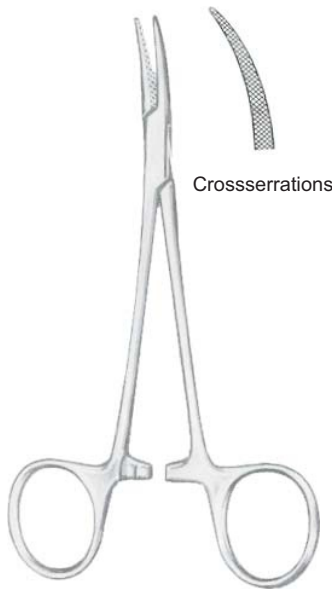


16-04310-13



16-04311-13





Crossserrations

16-04315-12  
12cm/4 3/4"



**Halstead-Mosquito**  
18cm/7"  
21cm/8 1/4"



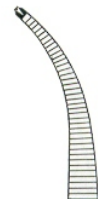
16-04318-18  
16-04318-21



16-04319-18  
16-04319-21



16-04322-18  
16-04322-21



16-04323-18  
16-04323-21



**Kelly**  
14cm/5 1/2"

**Kelly-Rankin**  
16cm/6 1/4"



16-04326-14



14cm/5 1/2" 16-04327-14



16-04330-16

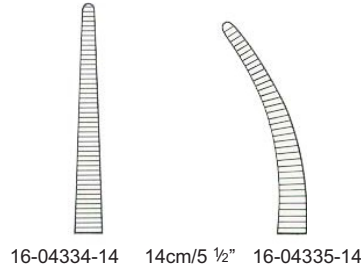


16cm/6 1/4" 16-04331-16

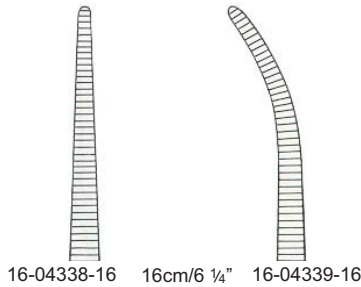


**Crile**  
14cm/5 1/2"

**Crile-Rankin**  
16cm/6 1/4"



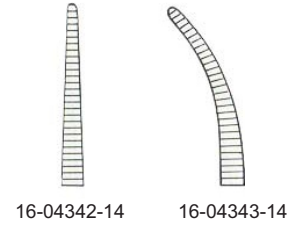
16-04334-14 14cm/5 1/2" 16-04335-14



16-04338-16 16cm/6 1/4" 16-04339-16



**Baby-Crile**  
14cm/5 1/2"

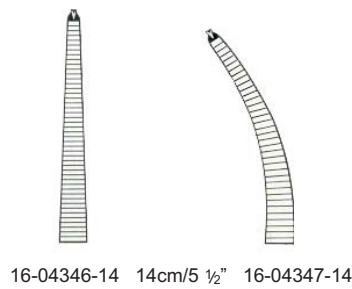


16-04342-14 16-04343-14

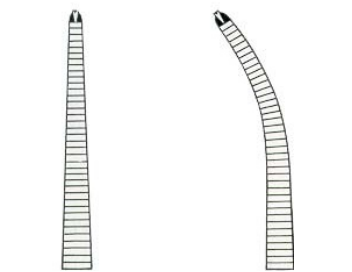


**Crile**  
14cm/5 1/2"

**Crile-Rankin**  
16cm/6 1/4"



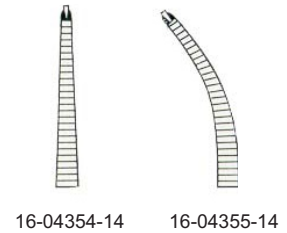
16-04346-14 14cm/5 1/2" 16-04347-14



16-04350-16 16cm/6 1/4" 16-04351-16



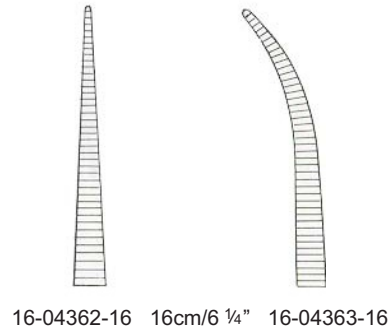
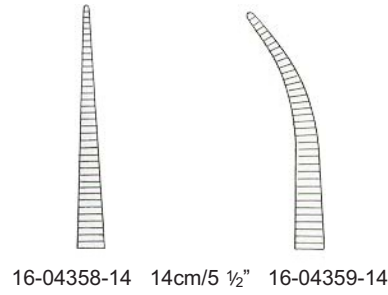
**Baby-Crile**  
14cm/5 1/2"



16-04354-14 16-04355-14



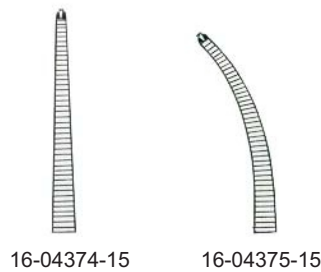
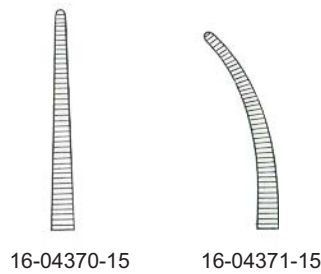
**Coller-Crile**



**Coller-Crile**  
16-04367-16  
16cm/6 1/4"

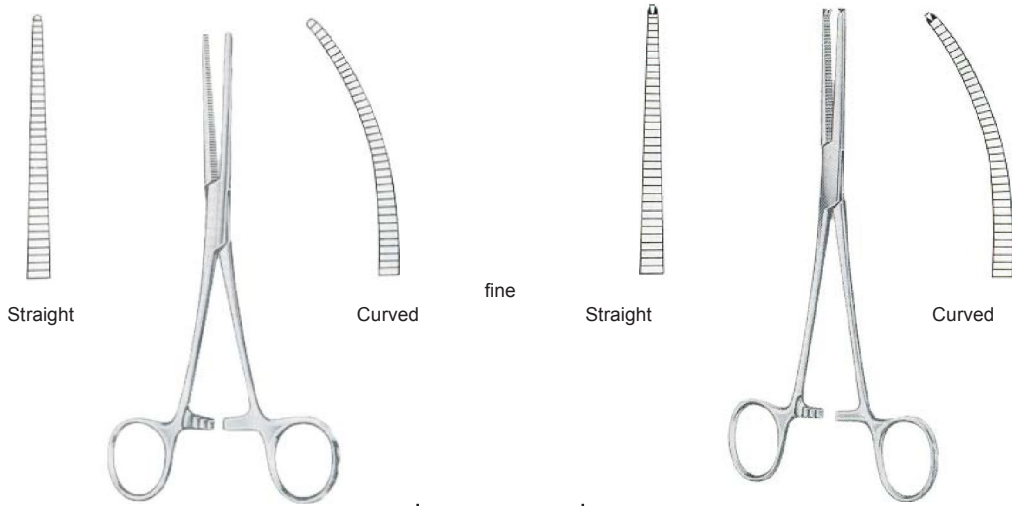


**Leriche**  
15cm/6"

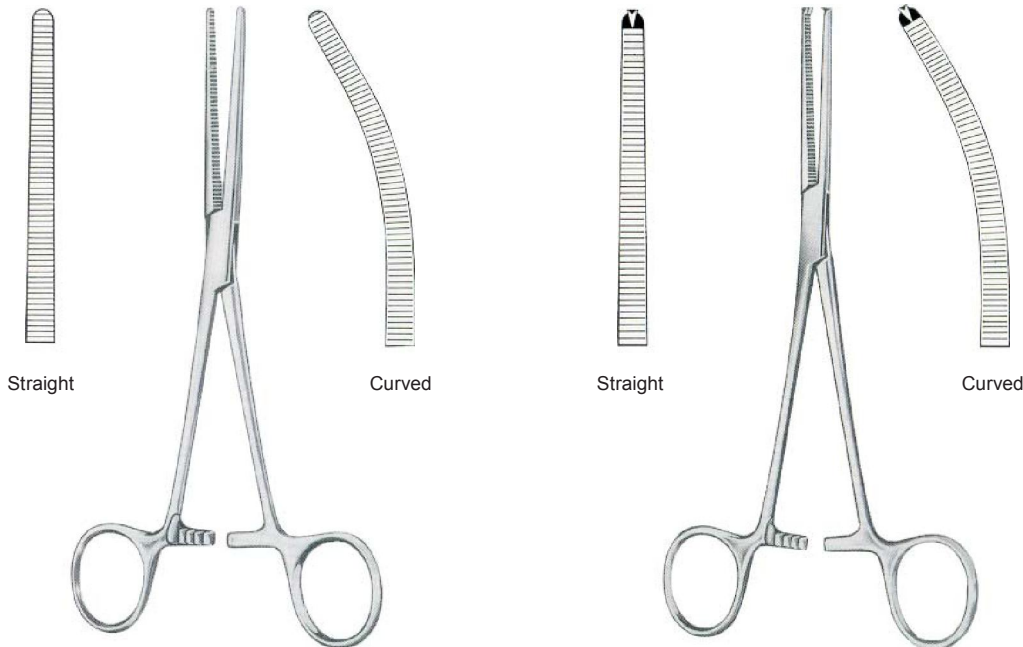


**Providence**  
14cm/5 1/2"





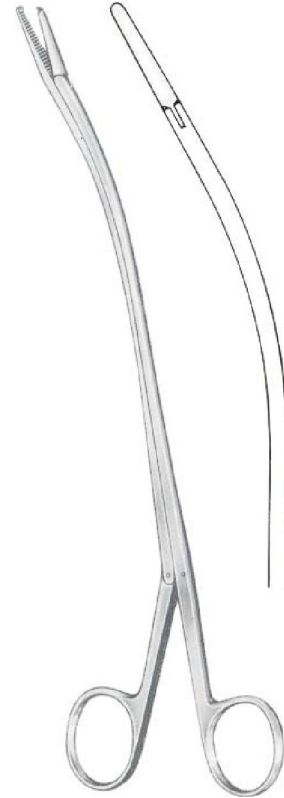
Rochester-Pean		cm	in	Ochsner-Kocher	
16-04382-13	16-04383-13	13.0	5"	16-04386-13	16-04387-13
16-04382-14	16-04383-14	14.0	5 1/2"	16-04386-14	16-04387-14
16-04382-16	16-04383-16	16.0	6 1/4"	16-04386-16	16-04387-16



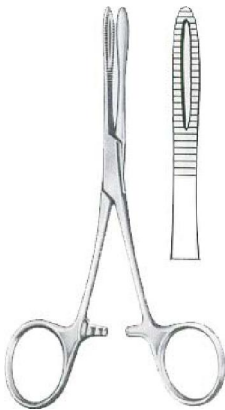
Rochester-Pean		cm	in	Ochsner-Kocher	
16-04390-13	16-04391-13	13.0	5"	16-04394-13	16-04395-13
16-04390-14	16-04391-14	14.0	5 1/2"	16-04394-14	16-04395-14
16-04390-16	16-04391-16	16.0	6 1/4"	16-04394-16	16-04395-16
16-04390-18	16-04391-18	18.0	7"	16-04394-18	16-04395-18
16-04390-20	16-04391-20	20.0	8"	16-04394-20	16-04395-20
16-04390-22	16-04391-22	22.0	8 3/4"	16-04394-22	16-04395-22
16-04390-24	16-04391-24	24.0	9 1/2"	16-04394-24	16-04395-24
16-04390-26	16-04391-26	26.0	10 1/4"	16-04394-26	16-04395-26
16-04390-30	16-04391-30	30.0	12"	16-04394-30	16-04395-30



Tendon Seizing Forceps



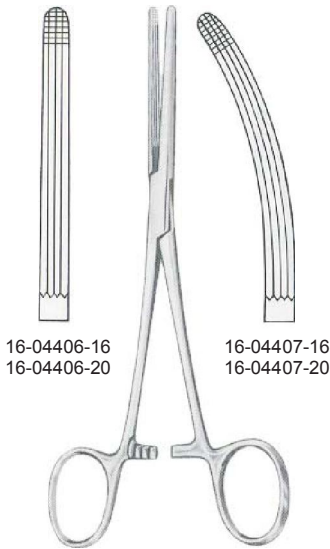
**Brand**  
16-04403-1515cm/6"  
16-04403-1919cm/7 1/2"  
16-04403-2424cm/9 1/2"



**Kronlein**  
16-04398-13  
13cm/5"

**Brand**  
16-04402-1515cm/6"  
16-04402-1919cm/7 1/2"  
16-04402-2424cm/9 1/2"

Lateral Curved



16-04406-16  
16-04406-20

16-04407-16  
16-04407-20

**Rochester-Carmalt**  
16cm/6 1/4"  
20cm/8"



16-04410-12

**Mosquito-Dandy**  
12cm/4 3/4"

16-04412-12



16-04415-14

**Dandy**  
14cm/5 1/2" 16-04416-14



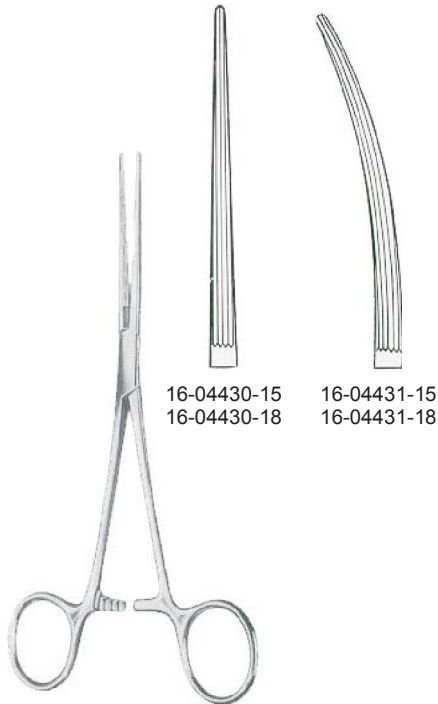
**Lovelace**  
16-04420-15  
15.5cm/6"



**Dixon-Lovelace**  
16-04424-16  
16cm/6¼"



**Dixon-Lovelace**  
16-04426-16  
16cm/6¼"



**Bainbridge**  
15cm/6"  
18cm/7"

16-04430-15  
16-04430-18

16-04431-15  
16-04431-18



**Fuchsig**  
16-04435-19  
19cm/7½"





**Adson**  
18.5cm/7¼"



16-04438-18



16-04439-18



16-04442-18



16-04443-18



**Nissen**  
16-04446-18 18.5cm/7 ¼"  
16-04446-22 22.0cm/8¾"



**Baby-Adson**



16-04449-14  
14cm/5½"



16-04451-18  
18cm/7"



**Jacobson-Adson**  
18cm/7"

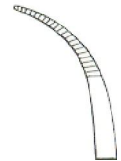
VeryFine



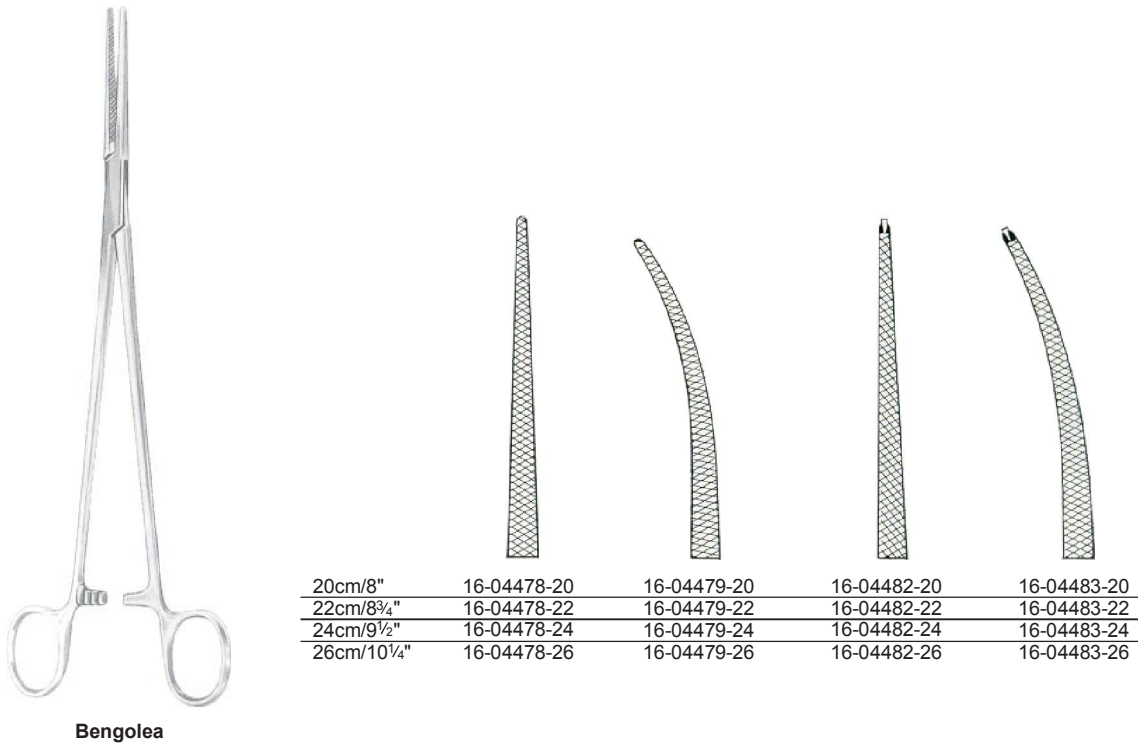
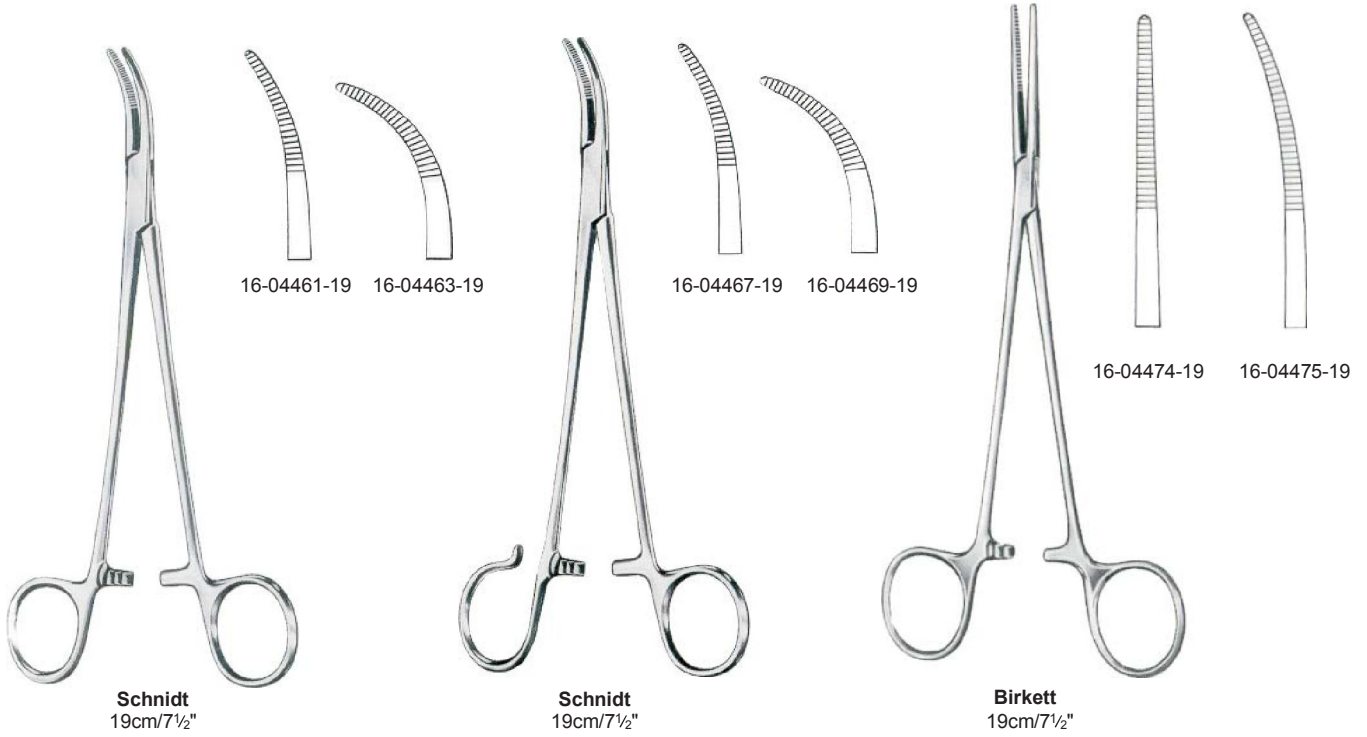
16-04454-18



16-04455-18



16-04457-18





16-04486-27

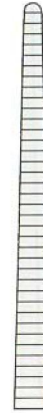


16-04487-27

**Bridge**  
27cm/10½"



16-04490-22



16-04491-22

**Roberts**  
22cm/8¾"



**Kelly**



19cm/7½"  
22cm/8¾"  
24cm/9½"

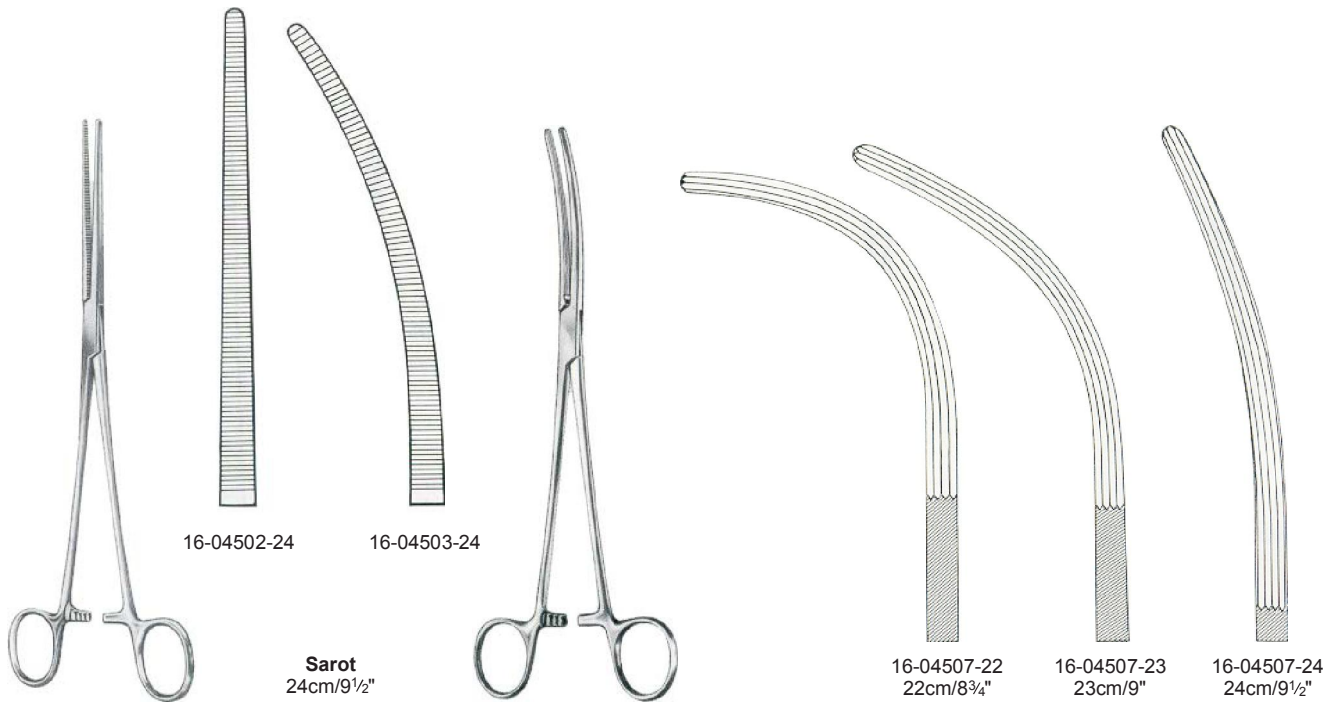
16-04495-19  
16-04495-22  
16-04495-24



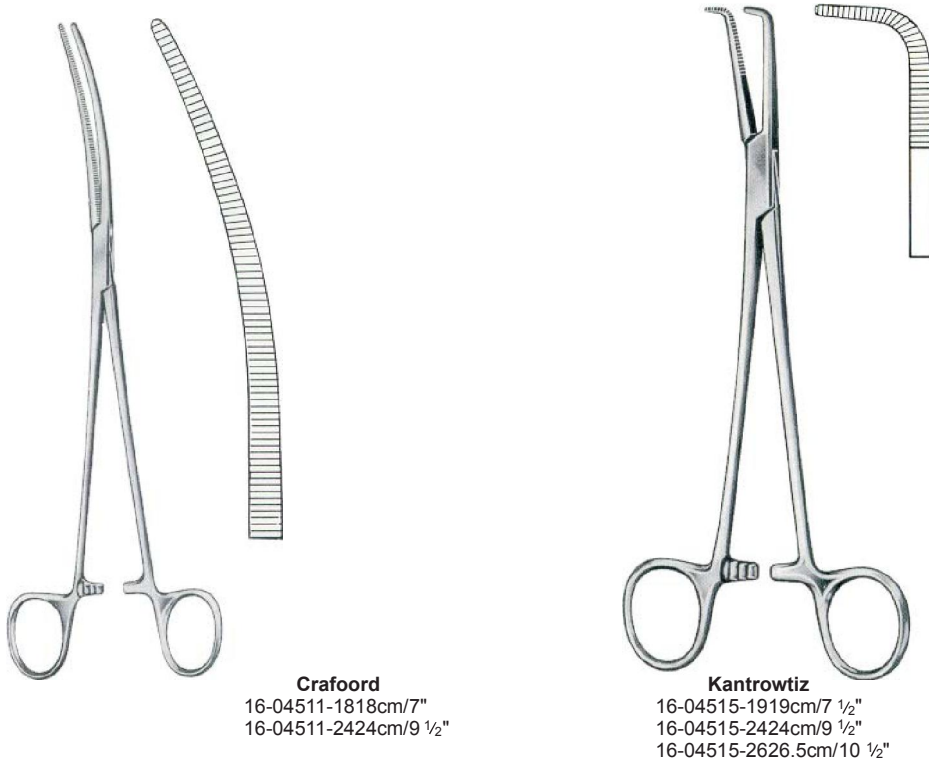
16-04497-19  
16-04497-22  
16-04497-24



16-04499-19  
16-04499-22  
16-04499-24

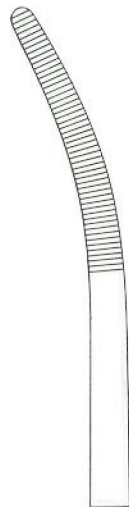


### Crafoord-Sellors





**Rumel**  
23cm/9"



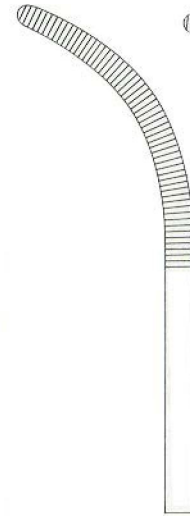
16-04519-23



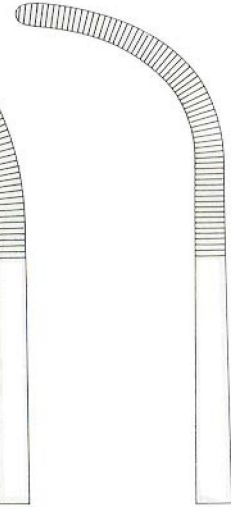
16-04521-23



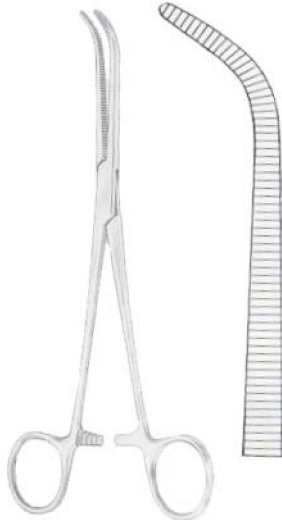
16-04523-23



16-04525-23



16-04527-23



**Johns Hopkins**  
16-04531-20  
20cm/8"



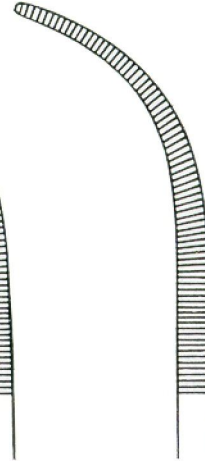
**Zenker**  
29.5cm/11½"



16-04534-29



16-04535-29



16-04537-29



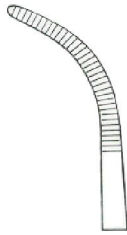
**Baby-Overholt**  
16-04541-13  
13.5cm/5¼"



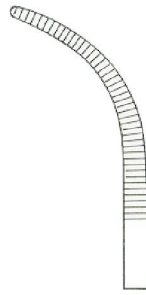
Overholt-Slim



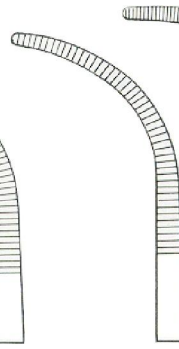
16-04545-18  
18.5cm/7¼"



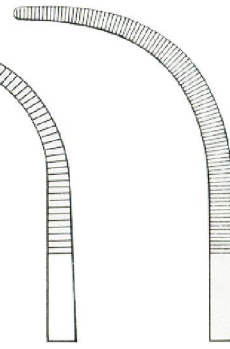
16-04547-20  
20.5cm/8"



16-04549-21  
21cm/8¼"



16-04551-21  
21.5cm/8½"



16-04553-24  
24cm/9½"



Overholt-Slim



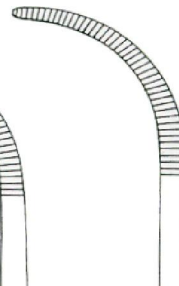
16-04557-18  
18.5cm/7¼"



16-04559-20  
20.5cm/8"



16-04561-21  
21cm/8¼"



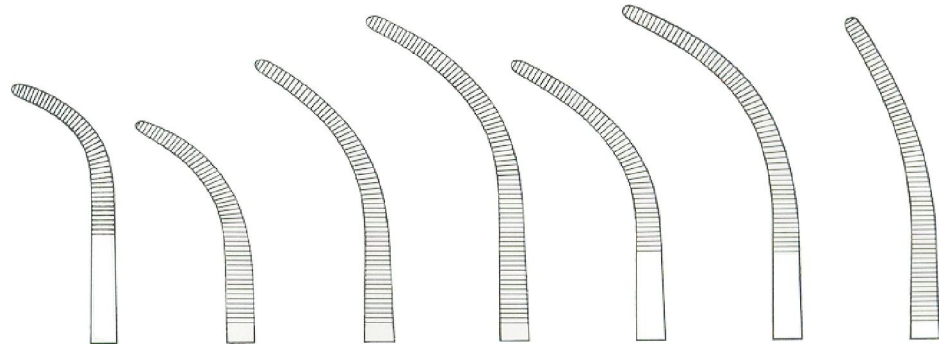
16-04563-21  
21.5cm/8¼"







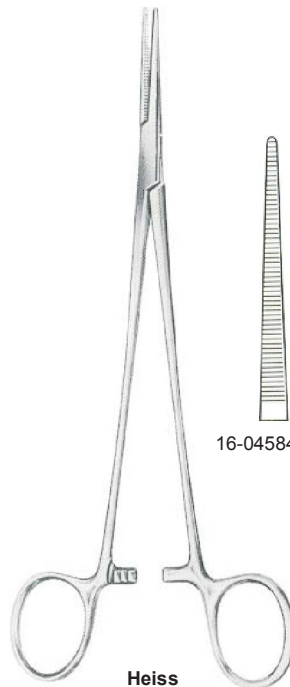
**Overholt-Geissendorfer**  
21cm/8¼"  
27cm/10½"



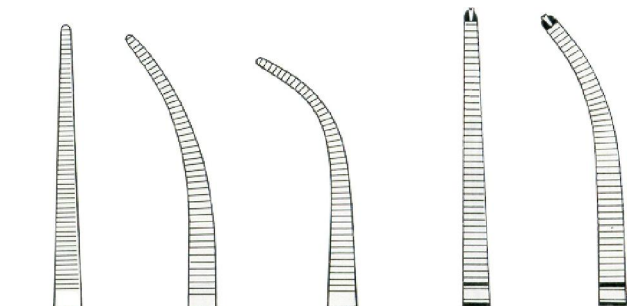
16-04567-21 16-04569-21 16-04571-21 16-04573-21 16-04575-21 16-04577-21 16-04579-21  
16-04567-27 16-04569-27 16-04571-27 16-04573-27 16-04575-27 16-04577-27 16-04579-27



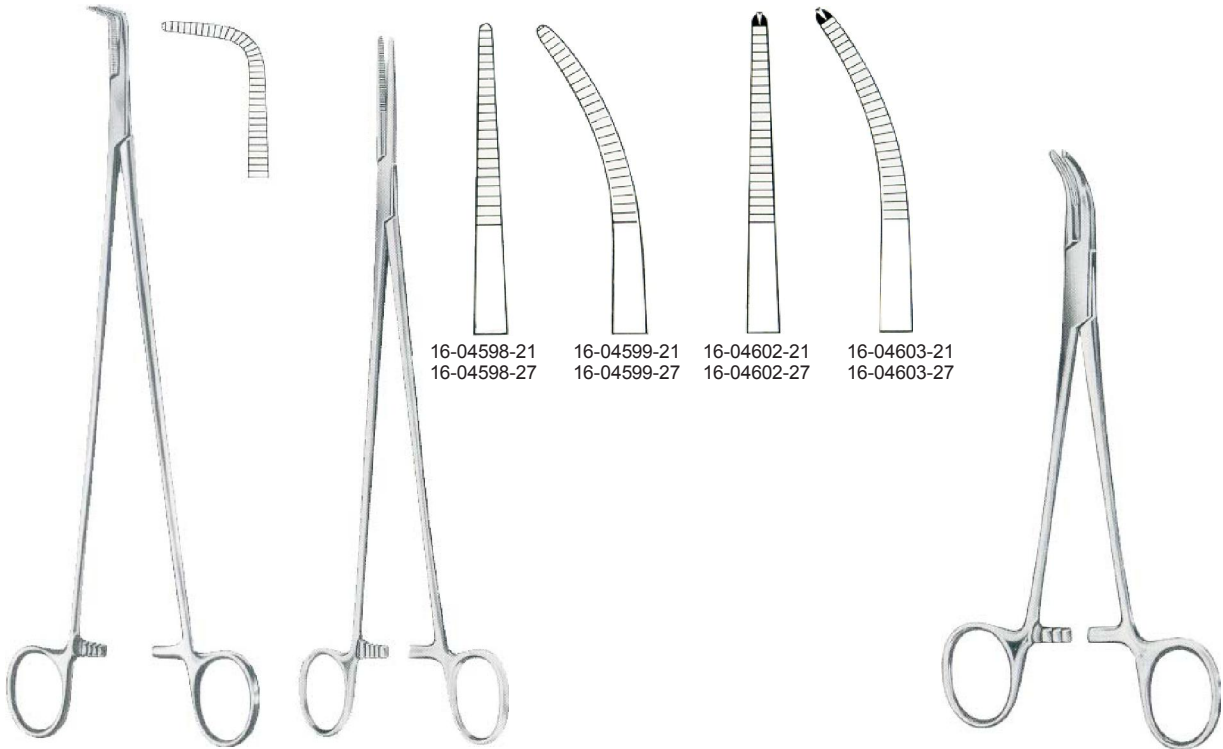
**Overholt-Mixer**  
16-04581-21  
21cm/8¼"



**Heiss**  
20cm/8"



16-04584-20 16-04585-20 16-04587-20 16-04589-20 16-04591-20



**Meeker**  
16-04595-27  
27cm/10 ½"

**Toennis**  
21cm/8 ¼"  
26cm/10 ¼"

**Lower**  
16-04607-18  
18cm/7"

16-04598-21  
16-04598-27

16-04599-21  
16-04599-27

16-04602-21  
16-04602-27

16-04603-21  
16-04603-27



**Gemini**

16-04611-13  
13cm/5"

16-04611-18  
18cm/7"

16-04611-20  
20cm/8"

16-04611-23  
23cm/9"

16-04611-25  
25cm/10"

16-04611-27  
27cm/10 ½"



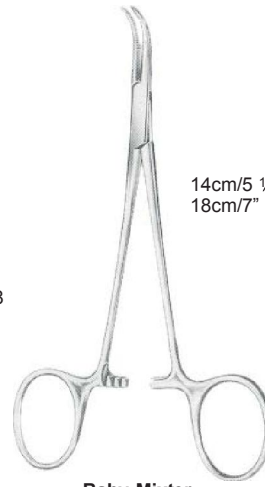
**Mini-Gemini**

16-04615-18  
18cm/7"

16-04615-22  
22cm/8 3/4"

16-04615-25  
25cm/10"

16-04615-28  
28cm/11"



**Baby-Mixer**

14cm/5 1/2"  
18cm/7"

16-04619-14  
16-04619-18

16-04621-14  
16-04621-18



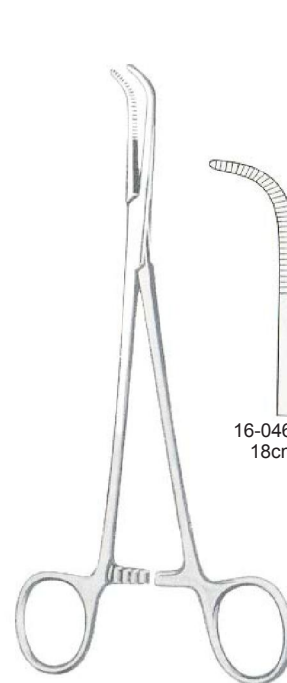
**Mixer**

16-04625-15 15cm/6"  
16-04625-19 19cm/7 1/2"



**Mixer-O'Shaugnessy**

16-04629-15 15.5cm/6"  
16-04629-19 19.0cm/7 1/2"



**Mixer-Slim**

16-04633-18  
18cm/7"

16-04633-23  
23cm/9"



16-04637-22  
22cm/8 3/4"

16-04637-25  
25cm/10"

16-04637-28  
28cm/11"

**Mixer**



**Mixer**  
16-04641-22  
22cm/8 3/4"



**Wickstroem**  
16-04645-20  
20cm/8"



**Finocchietto**  
16-04649-24  
24cm/9 1/2"



**McQuigg-Mixer**  
16-04653-22  
22cm/8 3/4"



**Lawrence**  
16-04657-27  
27.5cm/10 3/4"



**Lahey(Sweet)**

16-04661-19  
19cm/7 1/2"

16-04663-23  
23cm/9"



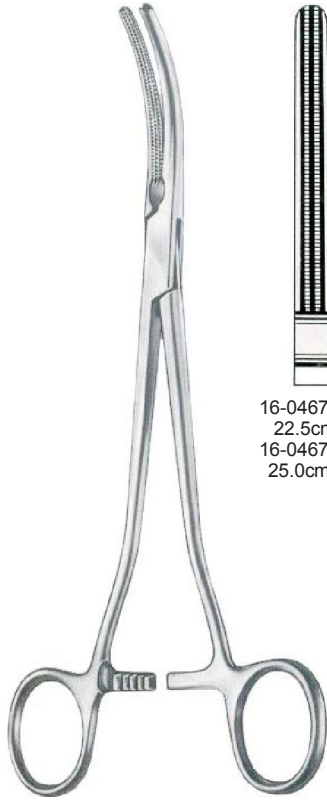
**Spencer-Wells**

16-04664-13	13cm/5"	16-04665-13
16-04664-15	15cm/6"	16-04665-15
16-04664-18	18cm/7"	16-04665-18
16-04664-20	20cm/8"	16-04665-20
16-04664-23	23cm/9"	16-04665-23



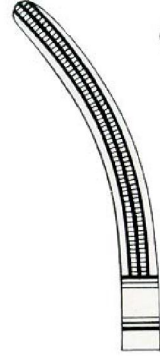
**Spencer-Wells**

16-04668-13	13cm/5"	16-04669-13
16-04668-14	14cm/5 1/2"	16-04669-14
16-04668-15	15cm/6"	16-04669-15
16-04668-18	18cm/7"	16-04669-18
16-04668-20	20cm/8"	16-04669-20
16-04668-23	23cm/9"	16-04669-23

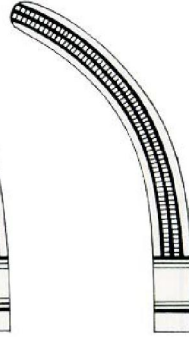


Rogers

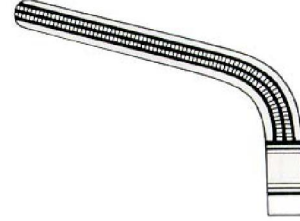
16-04672-22  
22.5cm/9"  
16-04672-25  
25.0cm/10"



16-04673-22  
22.0cm/8 3/4"  
16-04673-24  
24.5cm/9 3/4"



16-04675-21  
21.5cm/8 1/2"  
16-04675-24  
24.0cm/9 1/2"



16-04679-20  
20.5cm/8"  
16-04679-23  
23.5cm/9"



Heaney

19.5cm/7 1/2"  
21.5cm/8 1/4"  
23.5cm/9"



16-04683-19  
16-04683-21  
16-04683-23



16-04685-19  
16-04685-21  
16-04685-23



Heaney-Slim  
16-04687-21  
21cm/8 1/4"





**Ballentine**  
16-04690-21  
21cm/8¼"



**Heaney-Ballentine**  
16-04691-21  
21cm/8¼"



Tonsil Forceps

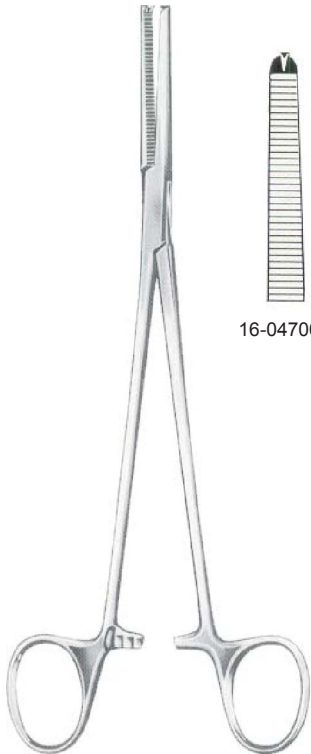


Fig. 1



Fig. 2

**Negus**  
16-04695-19 19cm/7½" 16-04697-19



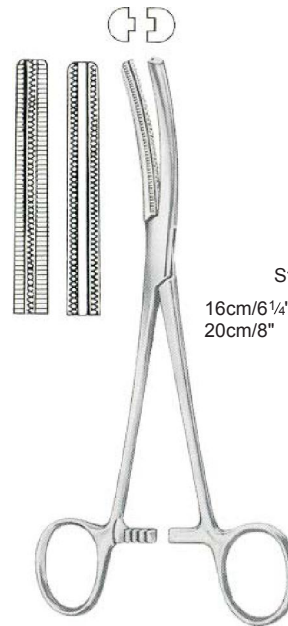
**Phaneuf**  
21.5cm/8½"



16-04700-21



16-04701-21

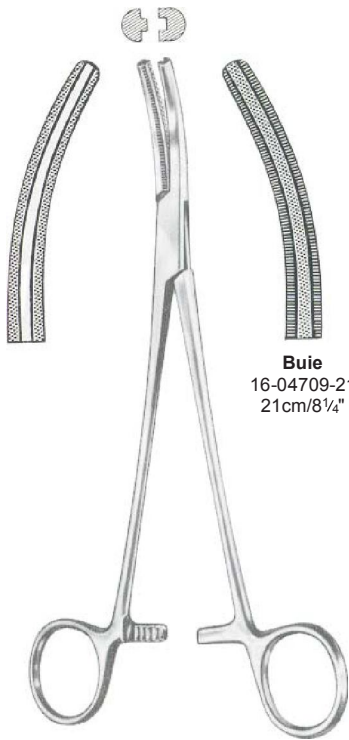


**Fergusson**

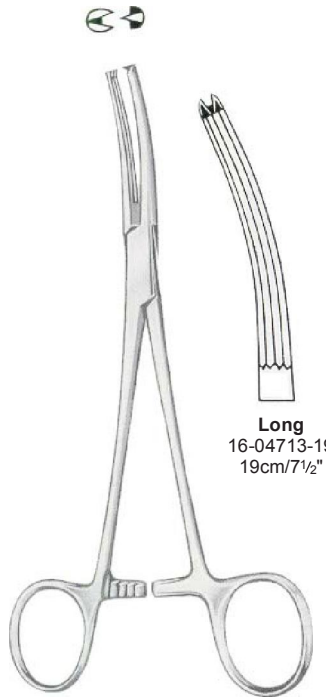
Haemorrhoidal Clamps



	<b>Straight</b>		<b>Curved</b>
16cm/6¼"	16-04704-16	16-04705-16	
20cm/8"	16-04704-20	16-04705-20	



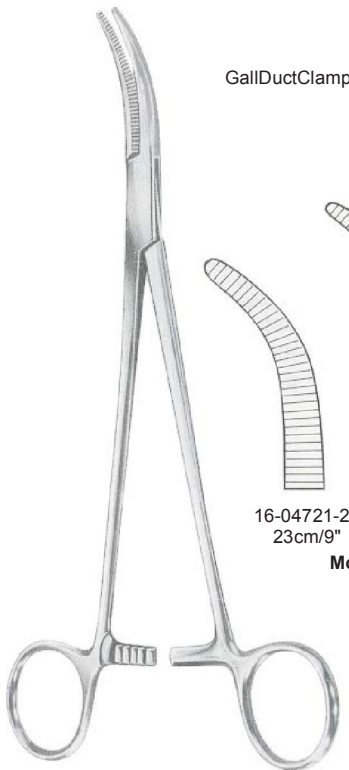
**Buie**  
16-04709-21  
21cm/8¼"



**Long**  
16-04713-19  
19cm/7½"



**Garland**  
16-04717-21  
21cm/8¼"



GallDuctClamps

16-04721-23 23cm/9"  
16-04723-24 24cm/9½"  
**Moynihan**



HysterectomyForceps

16-04726-23 16-04727-23  
**Hozlback**  
23.5cm/9¼"



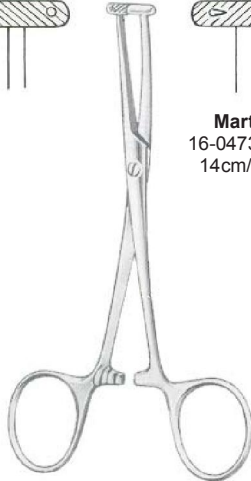
PressureClamps

**Zweifel**  
16-04730-17  
17.5cm/7"

ScalpFlapForceps



**Martel**  
16-04733-14  
14cm/5½"



**Wertheim**  
16-04736-25  
25cm/10"



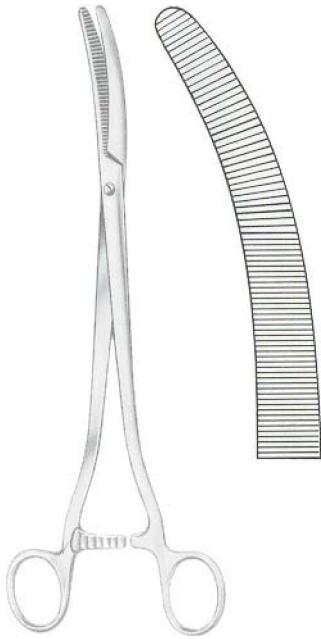
ExtraStrong



**Wertheim-Cullen**  
16-04739-21  
21.5cm/8½"



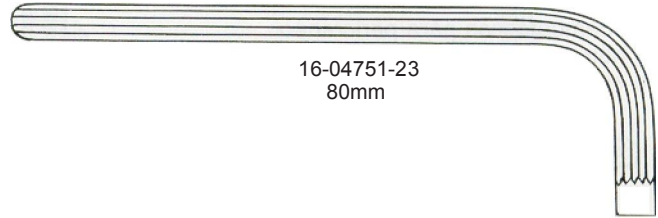
**Wertheim**  
16-04743-24  
24cm/9½"



**Faure**  
16-04747-25  
25cm/10"

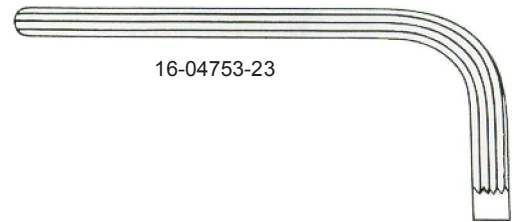


23cm/9"



16-04751-23  
80mm

60mm



16-04753-23



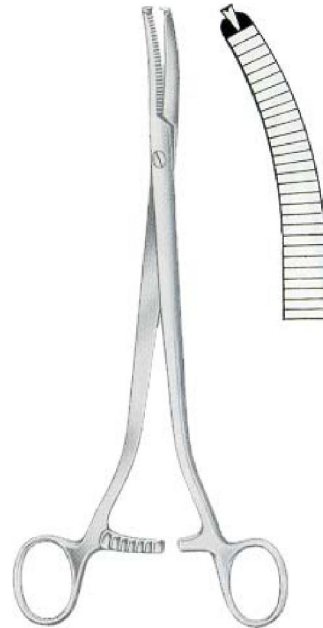
**Wertheim**  
22cm/8¾"



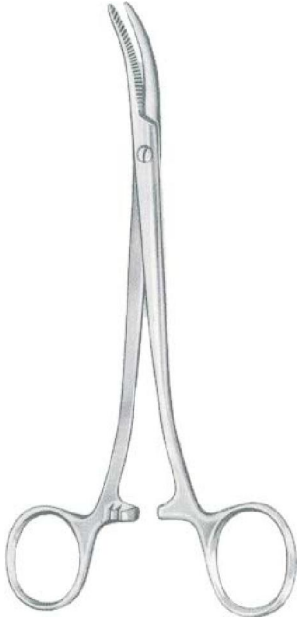
SlightlyCurved  
16-04755-22



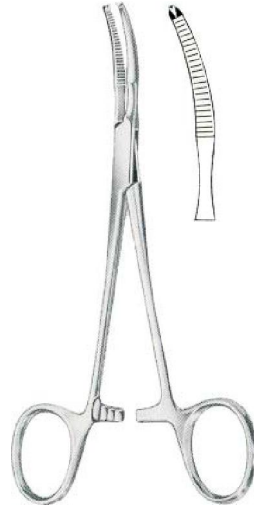
MoreCurved  
16-04757-22



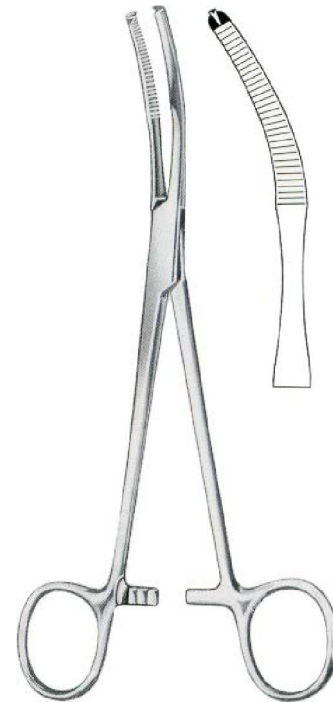
**Wertheim**  
16-04761-22  
22cm/8¾"



**Wertheim**  
16-04765-18  
18cm/7"



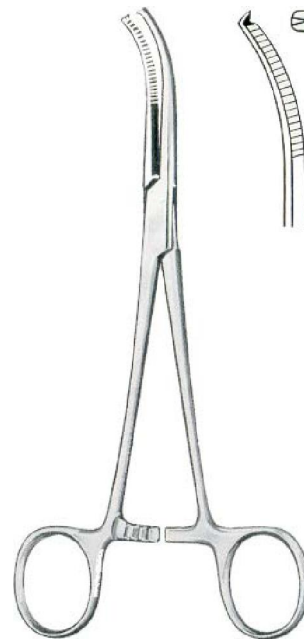
**Baby-Mikulicz**  
16-04769-14  
14cm/5 1/2"



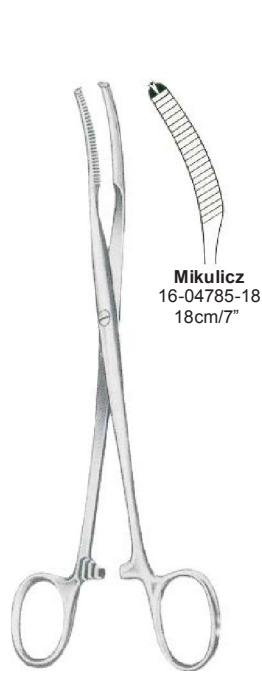
**Mikulicz**  
16-04773-18 18cm/7"  
16-04773-20 20cm/8"



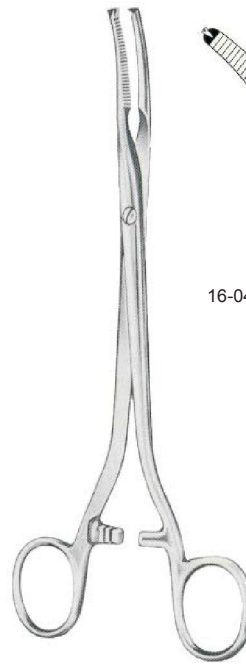
**Mikulicz**  
16-04777-20  
20cm/8"



**Mikulicz**  
16-04781-18  
18.5cm/7 1/4"



**Mikulicz**  
16-04785-18  
18cm/7"



**Mikulicz**  
16-04789-20 20cm/8" 16-04791-20



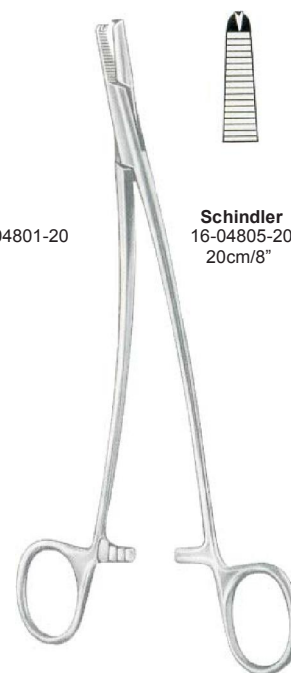
**Segond-Landau**  
16-04794-24  
24cm/9 1/2"



**Segond**  
16-04795-24  
24cm/9 1/2"



**Faure**  
16-04799-20 20cm/8" 16-04801-20



**Schindler**  
16-04805-20  
20cm/8"





**Schadel**  
16-04808-09 9cm/3 1/2"



**Jones**  
16-04812-055cm/2"  
16-04812-099cm/3 1/2"



**Engl-Modell**  
16-04816-09 9cm/3 1/2"



**Backhaus**  
16-04820-09 9cm/3 1/2"  
16-04820-1111cm/4 1/2"  
16-04820-1313cm/5"  
16-04820-1515cm/6"

WithclipforTubingorCable



16-04824-1111cm/4 1/2"  
16-04824-1313cm/5"



**Peers-Bertram**  
16-04828-14 14.5cm/5 3/4"



**Tohoku**  
16-04832-1010cm/4"  
16-04832-1313cm/5"



**Roder**  
16-04836-13 13cm/5"  
16-04836-15 15cm/6"



**Lorna**  
16-04840-10 10cm/4"  
16-04840-13 13cm/5"



**Bernhard**  
16-04844-16 16.5cm/6 1/2"



**Lane**  
16-04848-20  
20cm/8"



**Doyen**  
16-04852-18  
18cm/7"



16-04856-14 14cm/5 1/2"  
 16-04856-15 15cm/6"  
 16-04856-18 18cm/7"  
 16-04856-20 20cm/8"



16-04860-14  
 14.5cm/5 3/4"



16-04864-16 16.5cm/6 1/2"  
 16-04864-18 18.0cm/7"

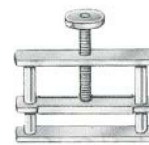


16-04868-15 15cm/6"  
 16-04868-18 18cm/7"  
 16-04868-20 20cm/8"



**Mohr**  
 16-04872-50 50mm  
 16-04872-60 60mm  
 16-04872-70 70mm  
 16-04872-80 80mm

Sizes  
 mm  
 13  
 17  
 20  
 25  
 30



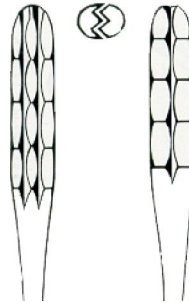
**Hoffmann**  
 16-04876-13  
 16-04876-17  
 16-04876-20  
 16-04876-25  
 16-04876-30



**Hoffmann**  
 16-04880-13  
 16-04880-17  
 16-04880-20  
 16-04880-25  
 16-04880-30

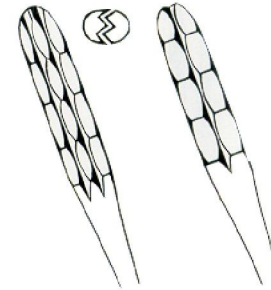


**Ulrich**



Straight

16-04884-22  
16-04884-25  
16-04884-27



Curved

22cm/8 3/4"  
25cm/10"  
27cm/10 1/2"

16-04885-22  
16-04885-25  
16-04885-27



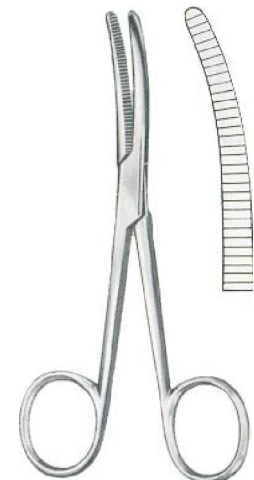
**Lister**

16-04888-13	13cm/5"	16-04890-13
16-04888-15	15cm/6"	16-04890-15
16-04888-18	18cm/7"	16-04890-18



**Bryant**

16-04894-13  
13cm/5"



**Bryant**

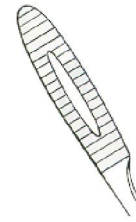
16-04896-13  
13cm/5"



**Gross-Maier**



Straight



Curved

With Ratchet

16-04900-20  
16-04900-25

20cm/8"  
25cm/10"

16-04901-20  
16-04901-25

Without Ratchet

16-04904-20  
16-04904-25

20cm/8"  
25cm/10"

16-04905-20  
16-04905-25



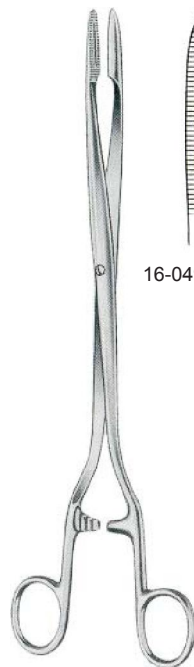
**Pelkman**  
25cm/10"



16-04908-25



16-04909-25



**Sims-Maier**  
28cm/11"



16-04912-28



16-04913-28



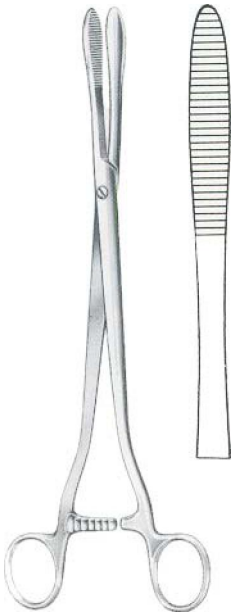
**Duplay**  
20cm/8"



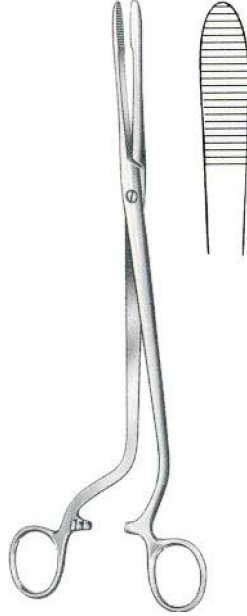
16-04916-20



16-04917-20



**Collin**  
16-04920-25  
25cm/10"



**Cheron**  
16-04924-25  
25cm/10"



**Emmet**  
16-04928-21  
21cm/8¼"



**Bozemann**  
16-04932-26  
26cm/10¼"



**Bozemann**  
26cm/10¼"



16-04935-26



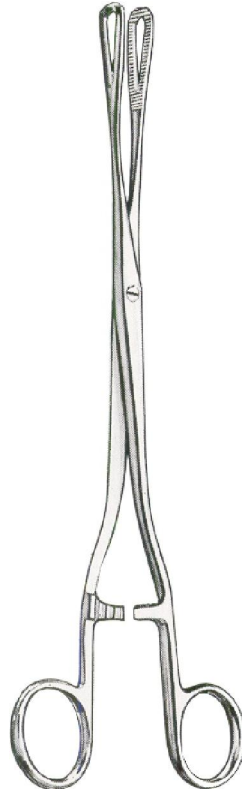
16-04937-26

Smooth





**Bozemann-Douglas**  
16-04941-26  
26cm/10 1/4"



**Rampley**  
16-04944-1818cm/7"  
16-04944-2424cm/9 1/2"



**Rampley**  
16-04946-1818cm/7"  
16-04946-2424cm/9 1/2"

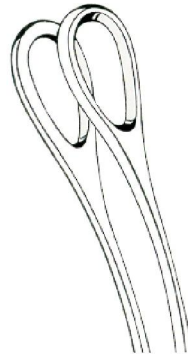


**Foerster**

18cm/7"  
20cm/8"  
24cm/9 1/2"  
25cm/10"



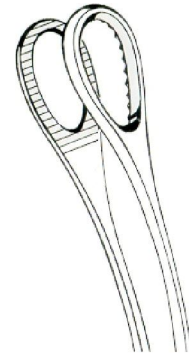
16-04950-18  
16-04950-20  
16-04950-24  
16-04950-25



16-04951-18  
16-04951-20  
16-04951-24  
16-04951-25



16-04954-18  
16-04954-20  
16-04954-24  
16-04954-25



16-04955-18  
16-04955-20  
16-04955-24  
16-04955-25



**Schwartz**  
16-04959-19  
19cm/7½"



16-04962-01



16-04962-02



16-04962-03

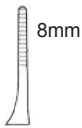
Applying Forceps



16-04966-23  
23cm/9"



**Diethrich**



16-04970-08



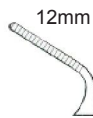
16-04970-12



16-04970-20



16-04971-08



16-04971-12



16-04971-20

**Atrauma**



16-04974-10



16-04974-14



16-04974-20



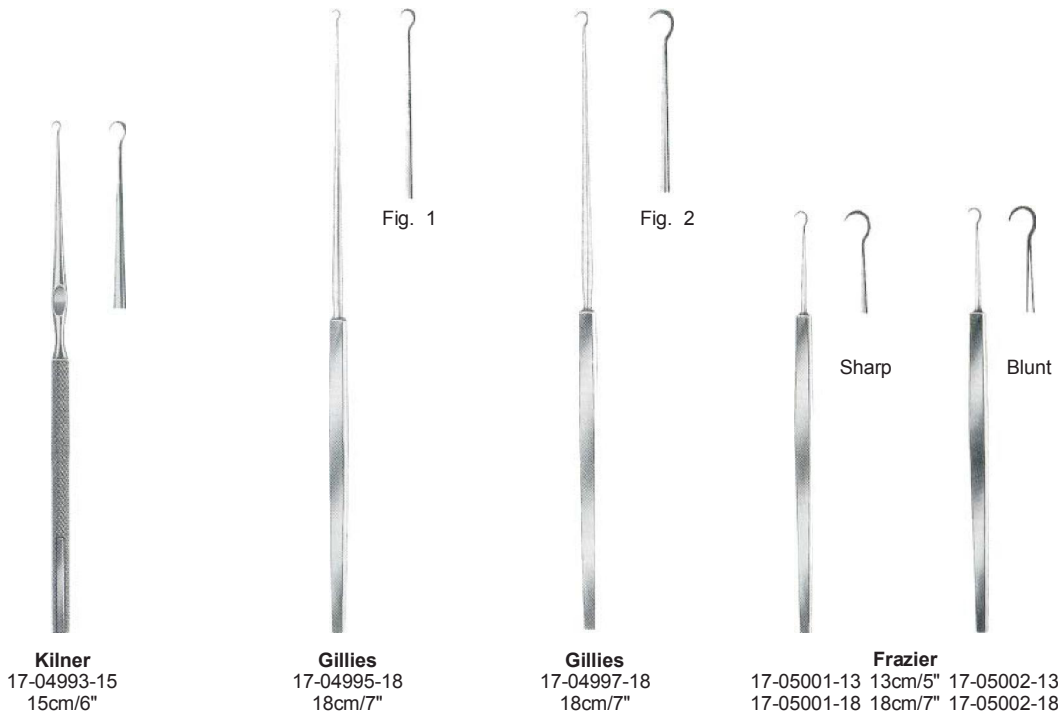
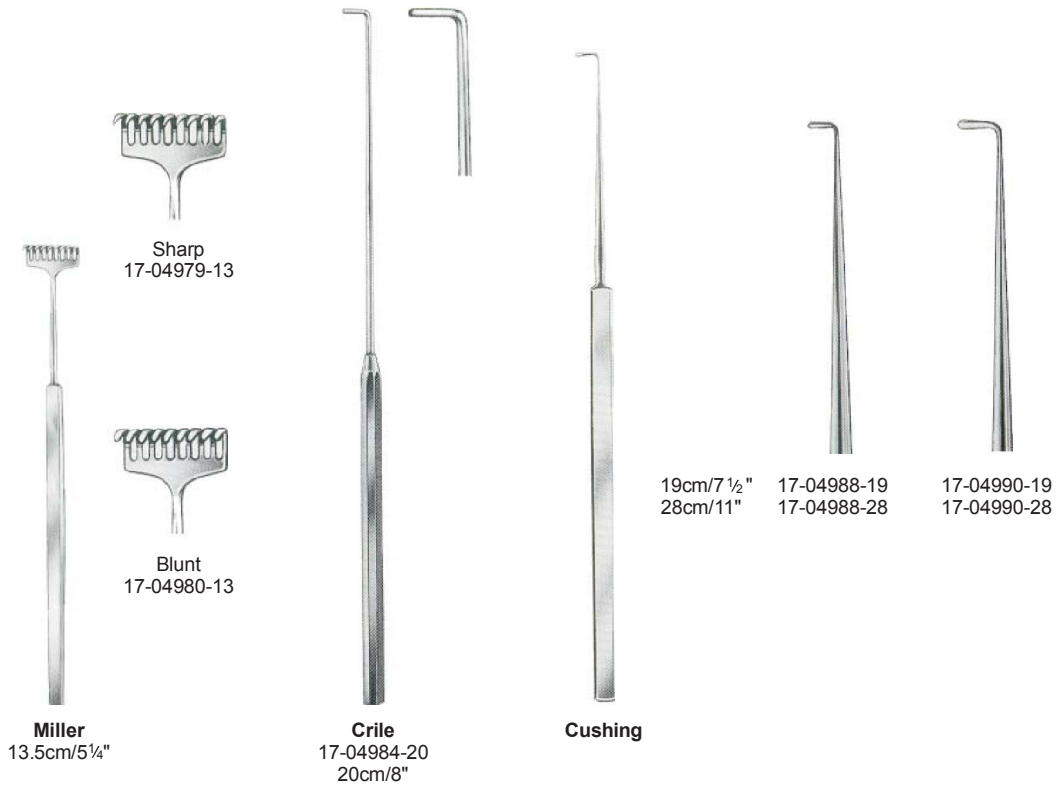
16-04975-10

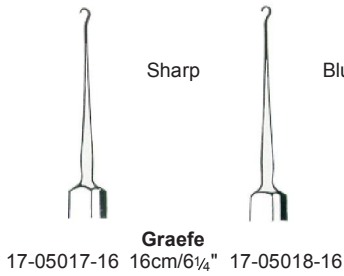
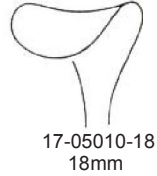
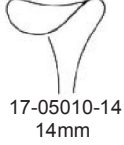
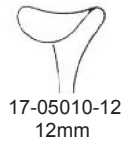
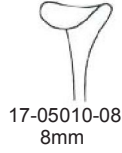


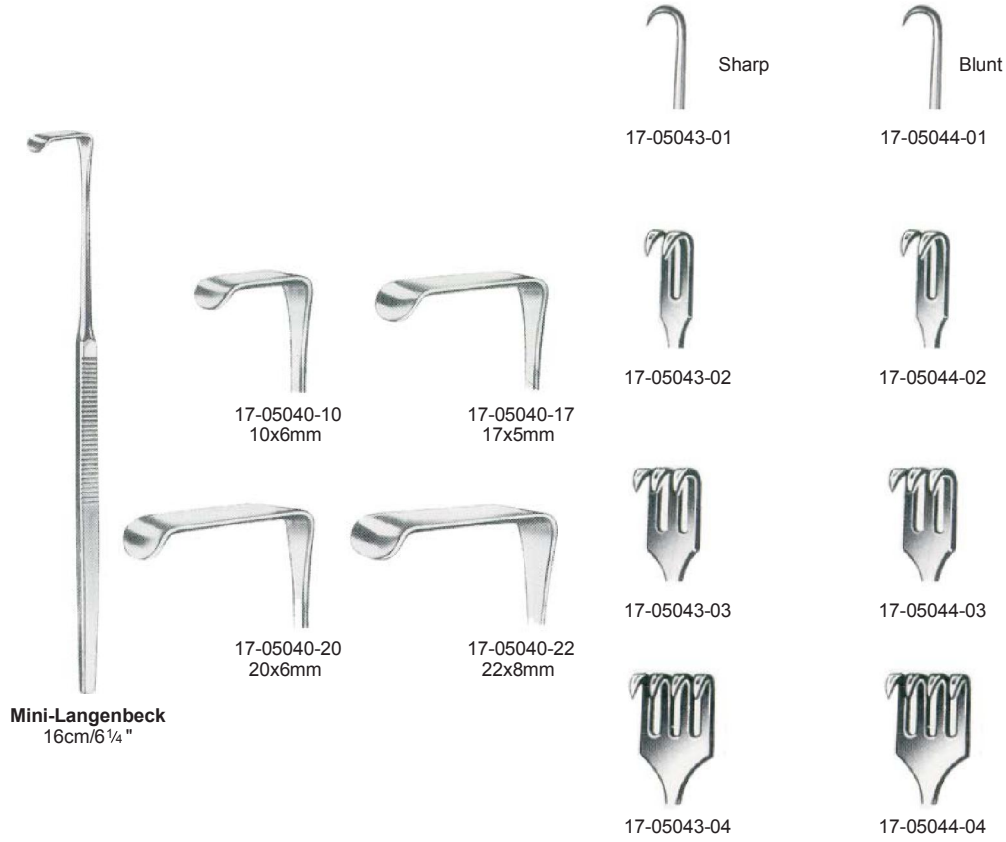
16-04975-14

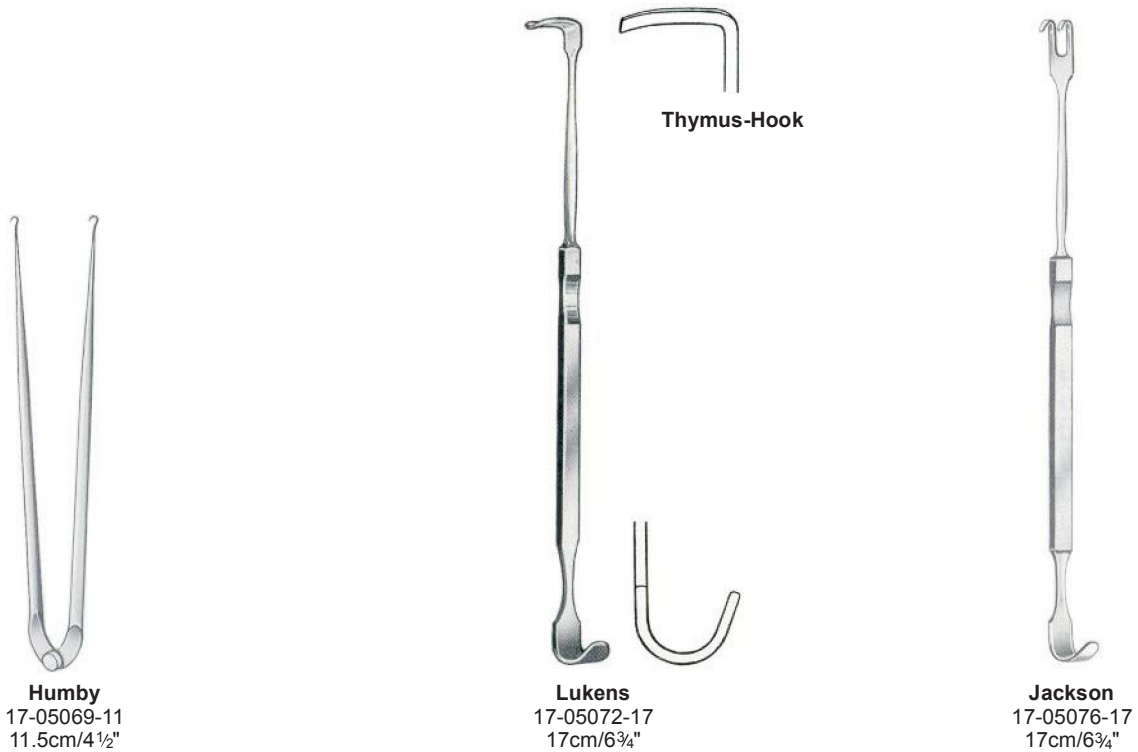
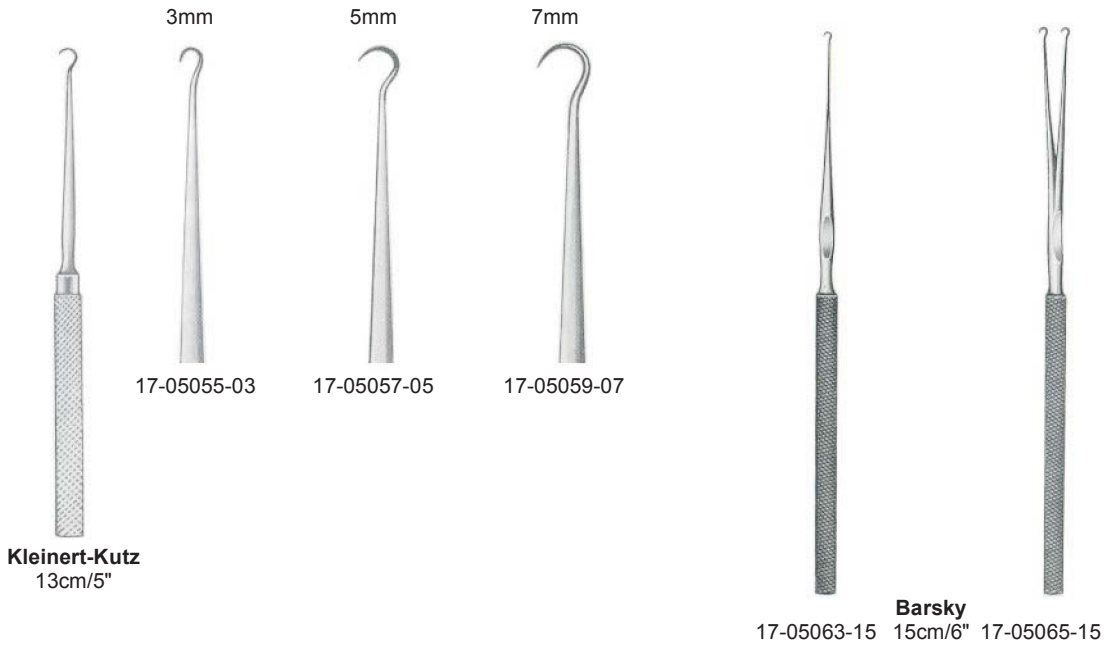


16-04975-20











Malleable



**Gil-Vernet**  
24cm/9½"

08mm17-05080-08	17-05082-08
11mm17-05080-11	17-05082-11
15mm17-05080-15	17-05082-15
17mm17-05080-17	17-05082-17
20mm17-05080-20	17-05082-20
23mm17-05080-23	17-05082-23

Malleable



24cm/9½"

12x14mm

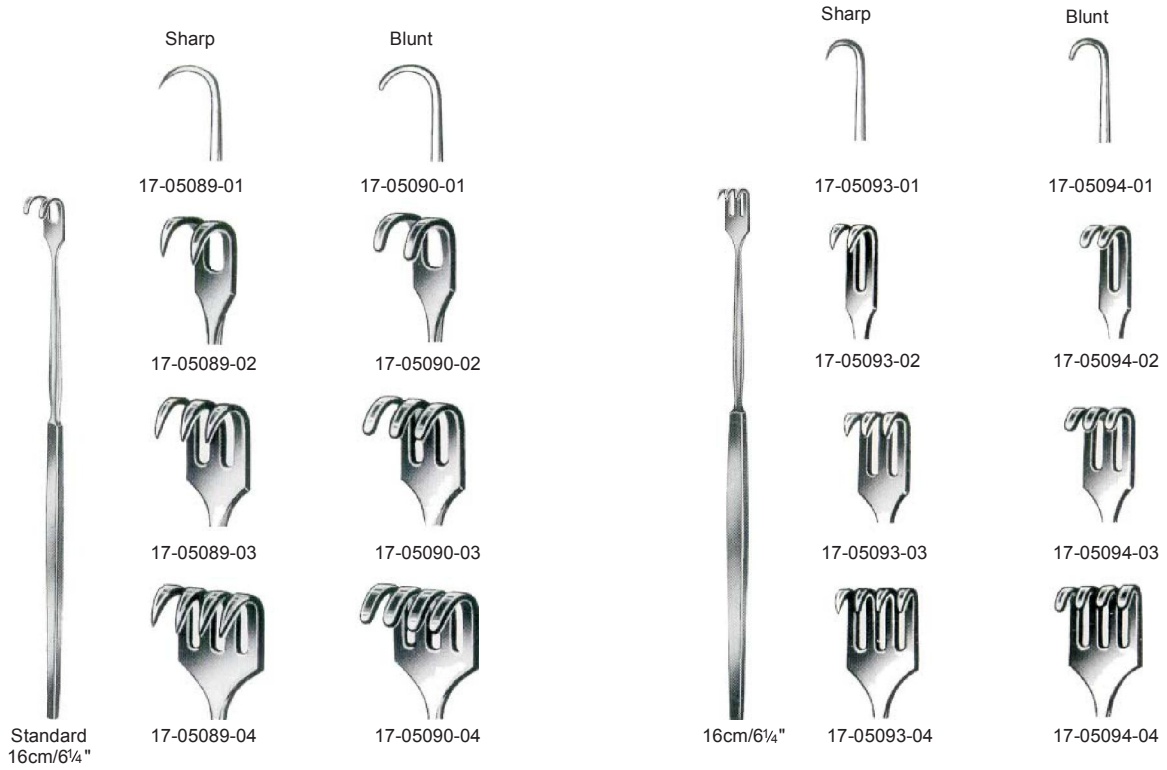


**Little**  
17-05085-20  
20cm/8"



**Love-(Morse)**  
25cm/10"

10mm17-05086-10  
15mm17-05086-15  
20mm17-05086-20  
30mm17-05086-30  
40mm17-05086-40  
50mm17-05086-50





17-05106-02  
13.5cm/5¼"



**Jackson**  
17-05109-13  
13cm/5"



**Bergmann**  
17-05113-14  
14cm/5½"



**Iterson**  
16cm/6¼"



17-05117-16



17-05119-16



**Meyerding**  
18cm/7"



17-05122-18  
18x7mm



17-05128-18  
16x5mm



17-05124-18  
7x4mm



17-05130-18  
10x3mm



17-05126-18  
7x4mm



17-05132-18



**Volkmann**  
11.5cm/4½"



Sharp  
17-05135-02



Blunt  
17-05136-02



17-05135-03



17-05136-03



17-05135-04



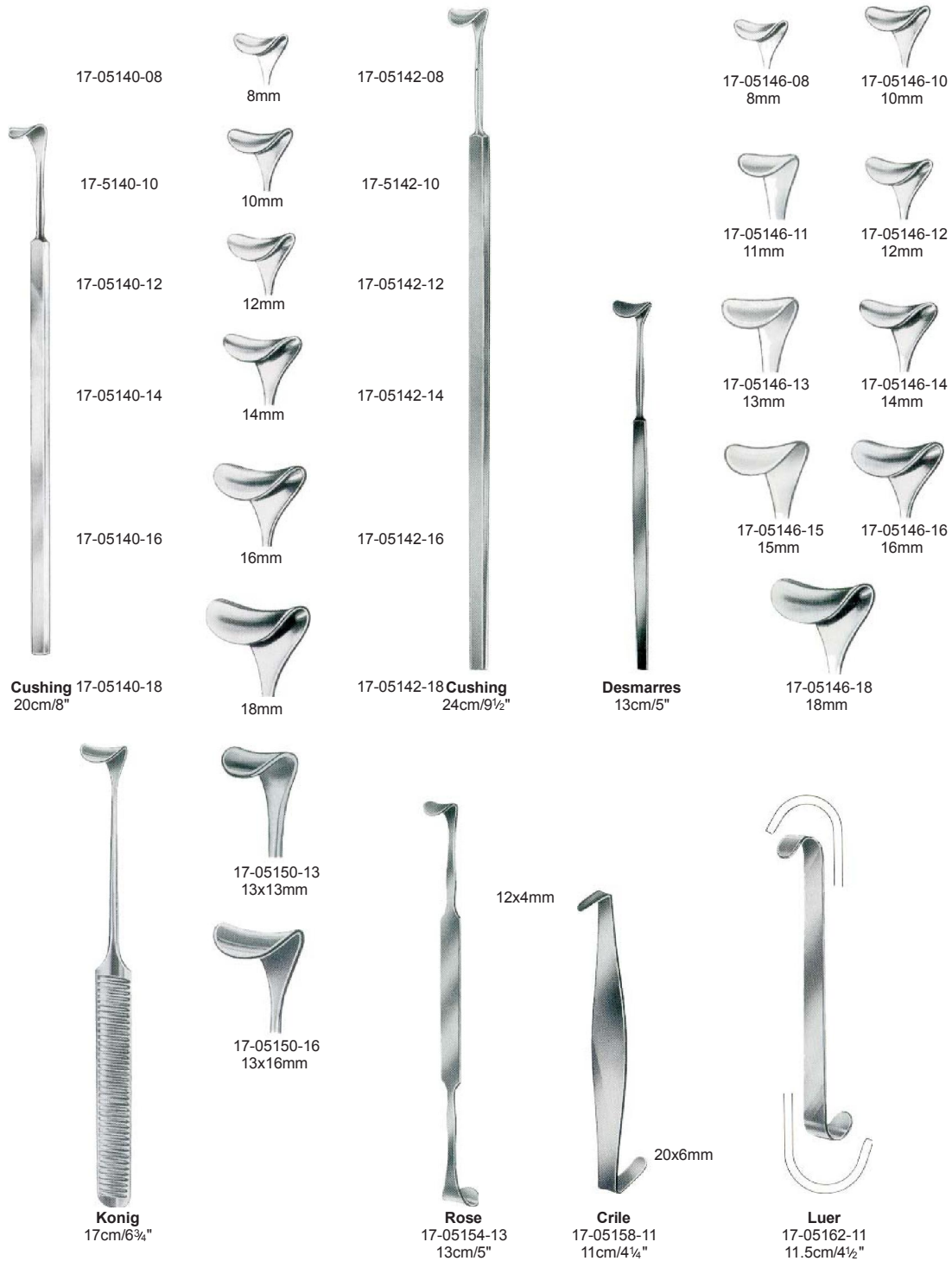
17-05136-04



17-05135-06



17-05136-06



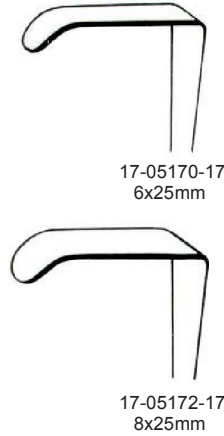


**Cushing-Kocher**  
17-05166-18  
18cm/7"

10x10mm



**Langenbeck-Green**  
17cm/6¾"



17-05170-17  
6x25mm

17-05172-17  
8x25mm



**Strandell-Stillé**  
19cm/7½"

TendonSheathHook



17-05176-19



toothed

17-05178-19

TendonSheathHook



**Klapp**  
17.5cm/7"



17-05182-02



17-05182-03

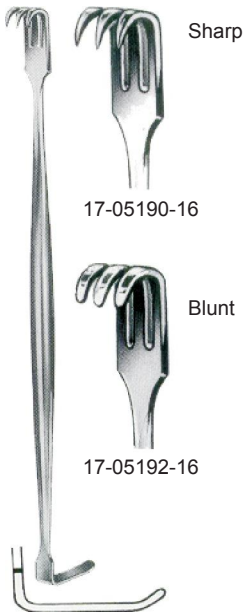


17-05182-04

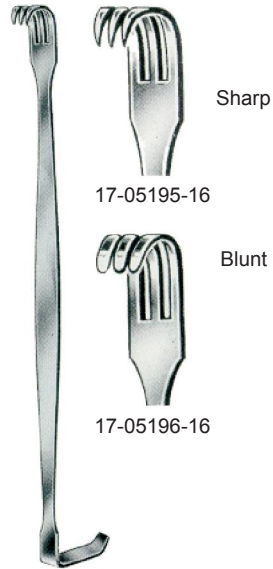
DecompressionHook



**Cushing**  
17-05186-20  
20cm/8"



**Senn-Miller**  
16cm/6¼"



**Baby-Senn-Miller**  
16cm/6¼"



**Rangell-Davis**  
17-05200-14  
14cm/5½"

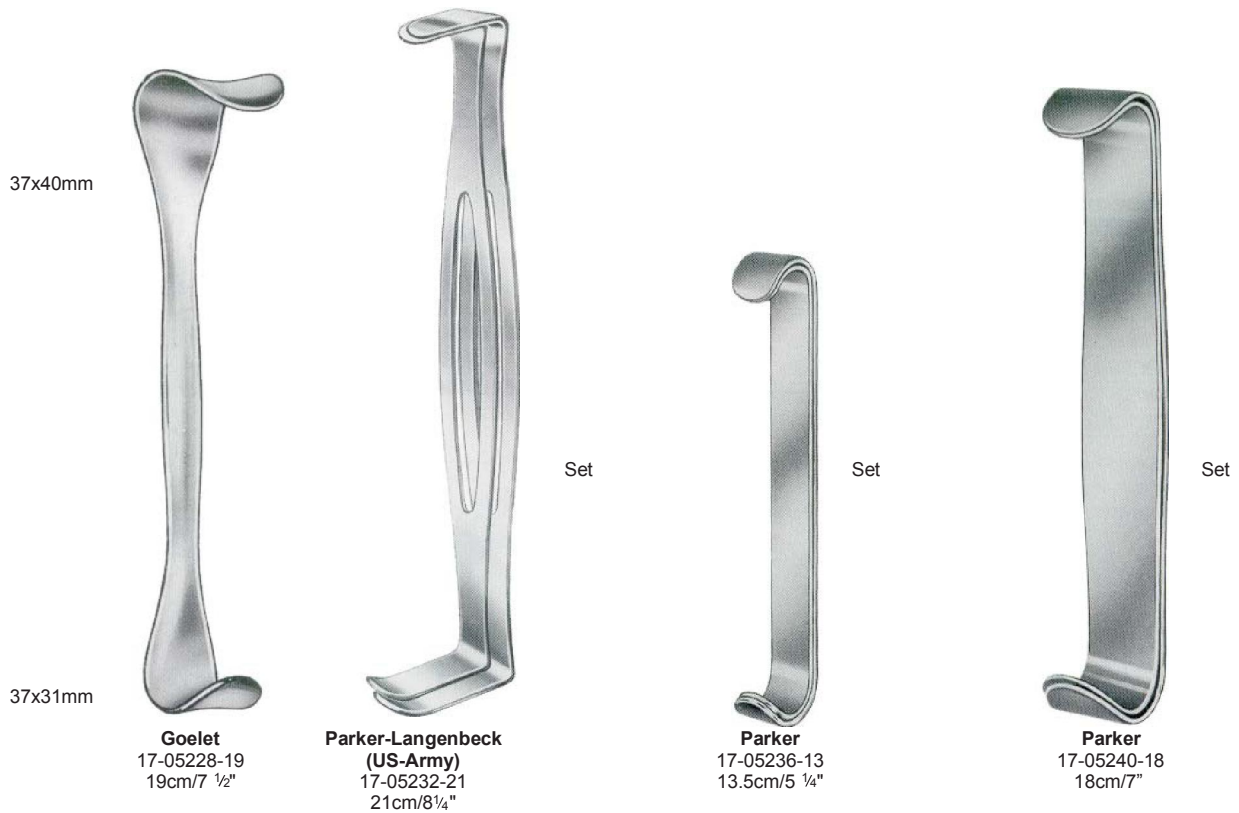
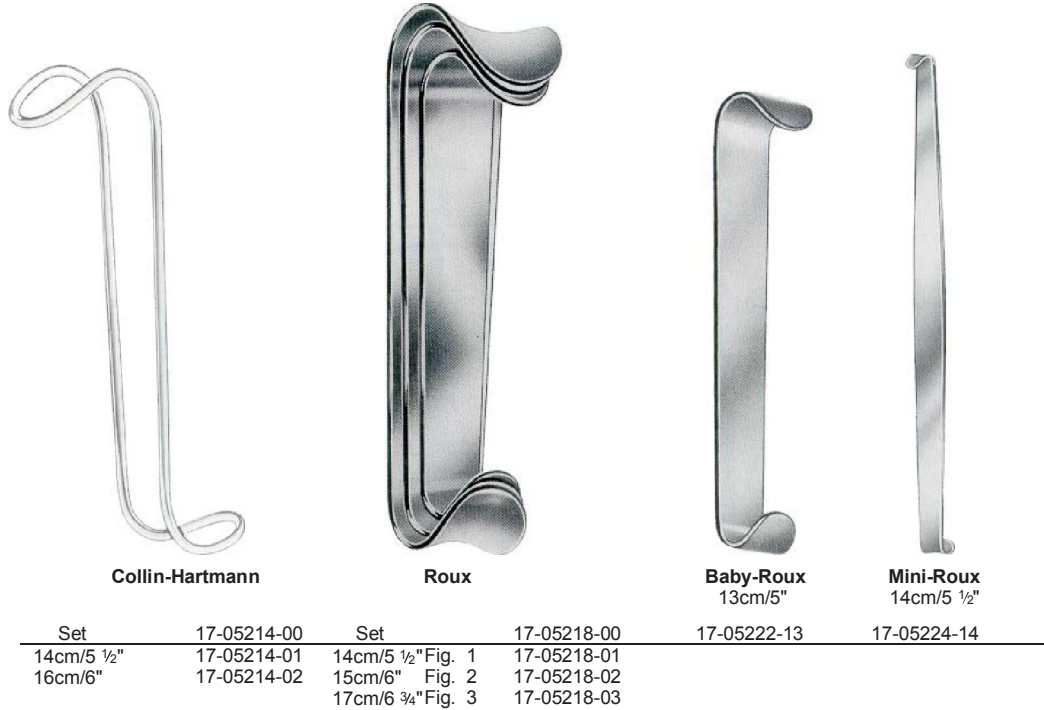


**Senn-Green**  
15cm/6"



**Langenbeck-Green**  
16cm/6¼"







Set

**Parker-Mott**  
17-05244-16  
16cm/6 ¼"



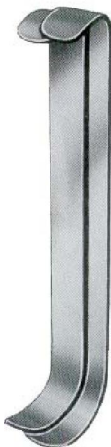
Set

**Farabeuf**  
17-05248-12  
12cm/4 ¾"



Set

**Farabeuf**  
17-05250-15  
15cm/6"



Set

**Collin**  
17-05254-16  
16.5cm/6 ½"



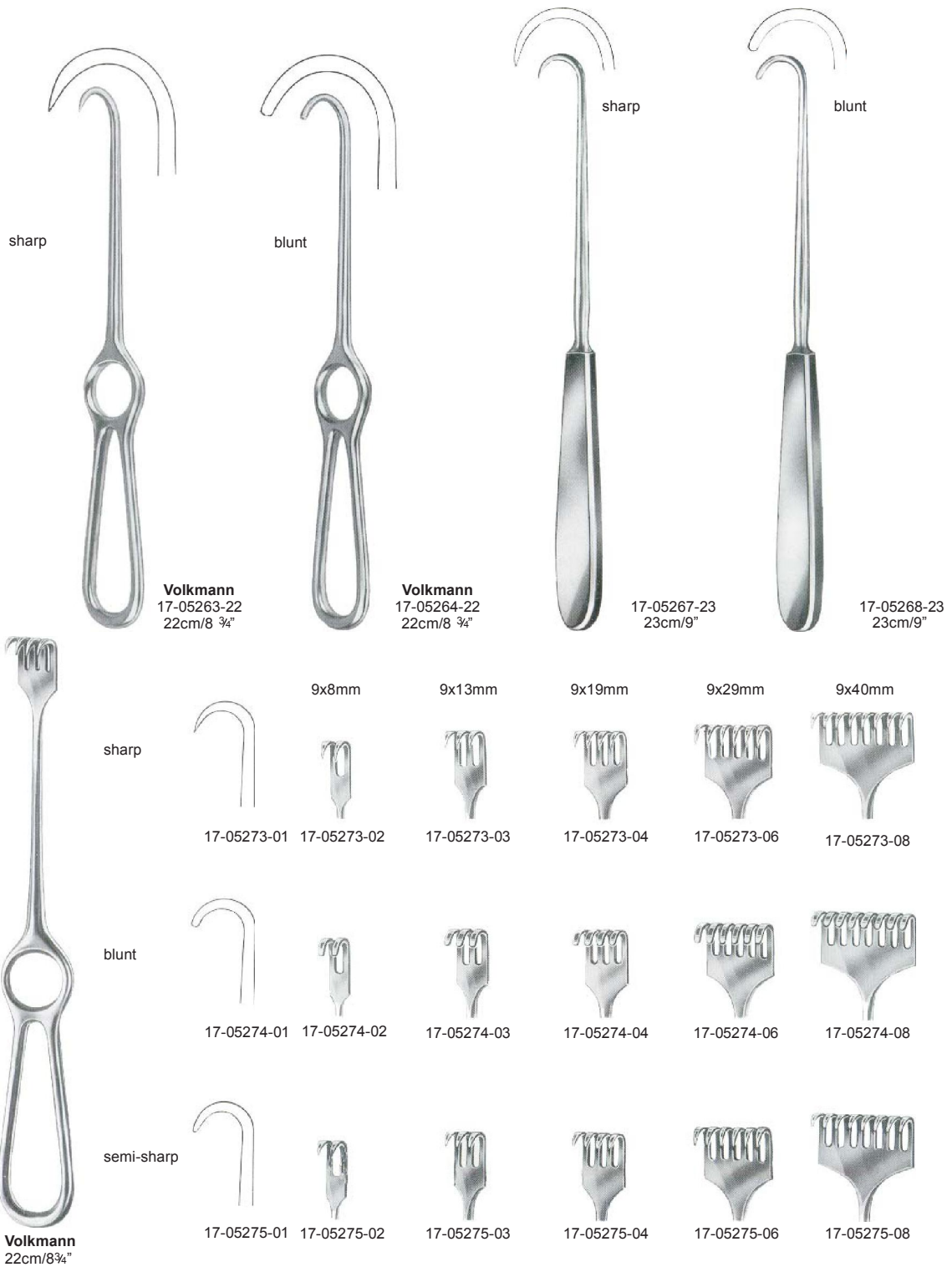
Set

**Mayo-Collin**  
17-05256-15  
15cm/6"



Set

**Mathieu**  
17-05260-19  
19cm/7 ½"





**Volkmann**  
23cm/9"



9x8mm



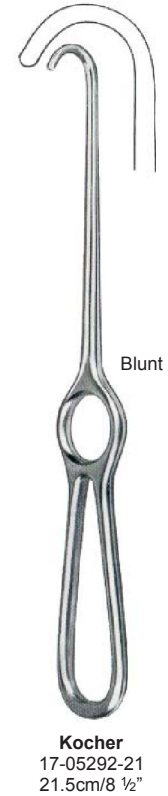
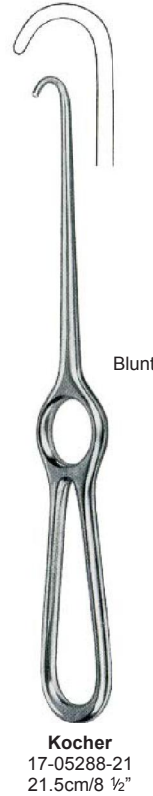
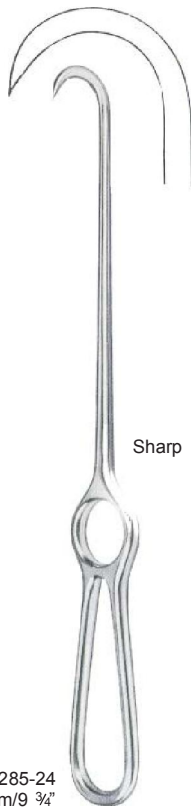
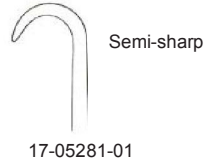
9x13mm

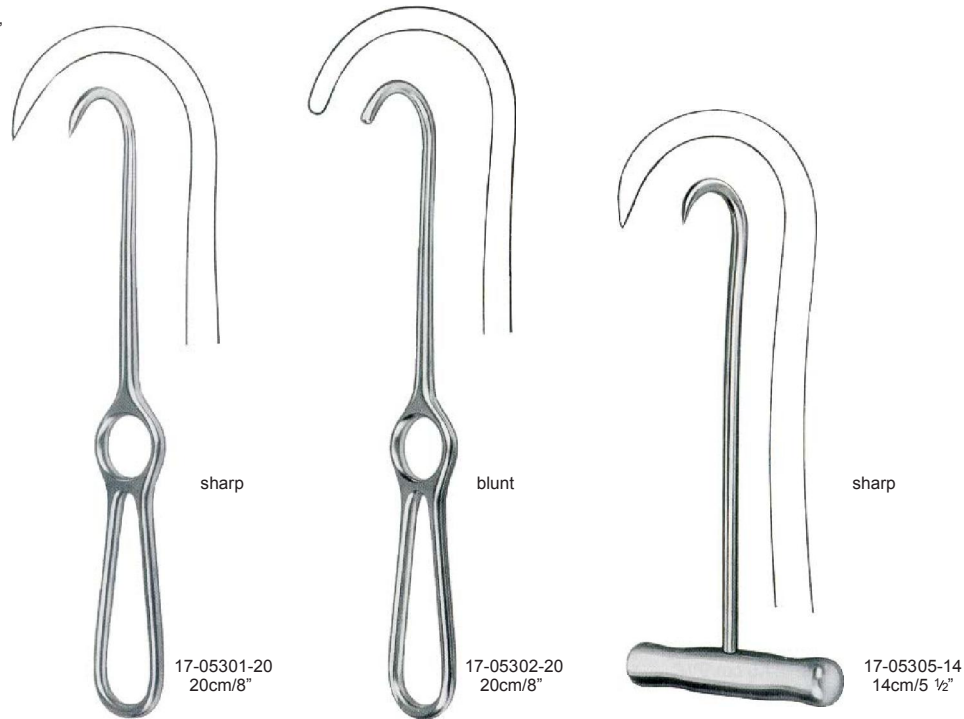


9x19mm



9x29mm







17-05308-03  
36x30mm



17-05308-04  
36x60mm

**Ollier**  
22.5cm/9"



**Murphy**  
19.5cm/7 3/4"

Sharp



17-05311-02



17-05311-03

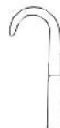


17-05311-04



17-05311-06

blunt



17-05312-02



17-05312-03

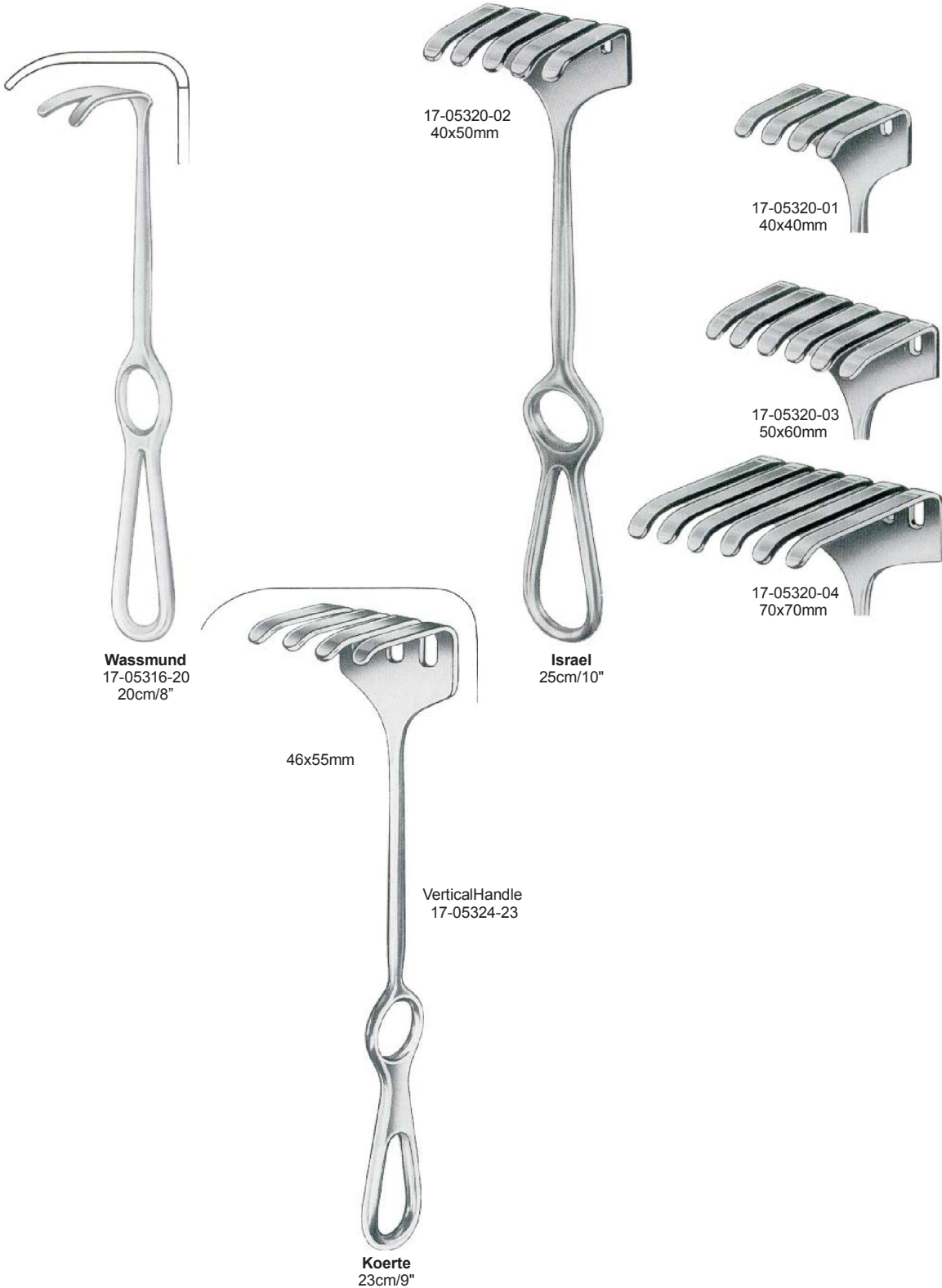


17-05312-04

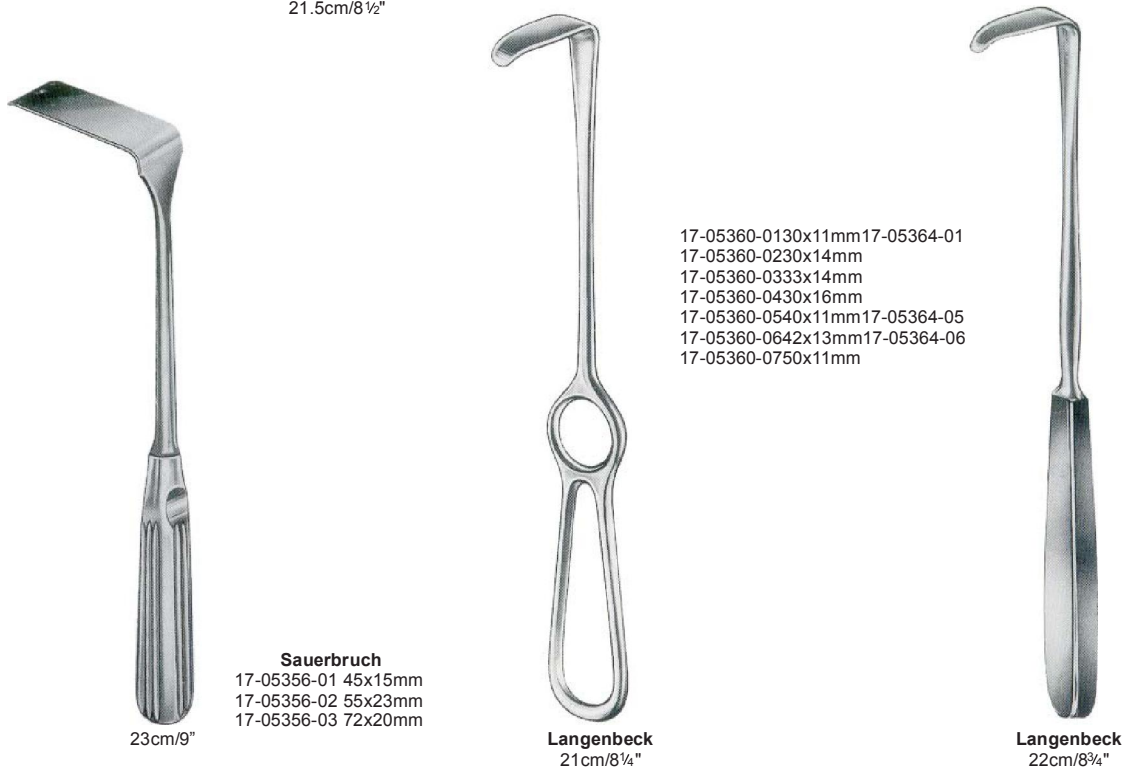
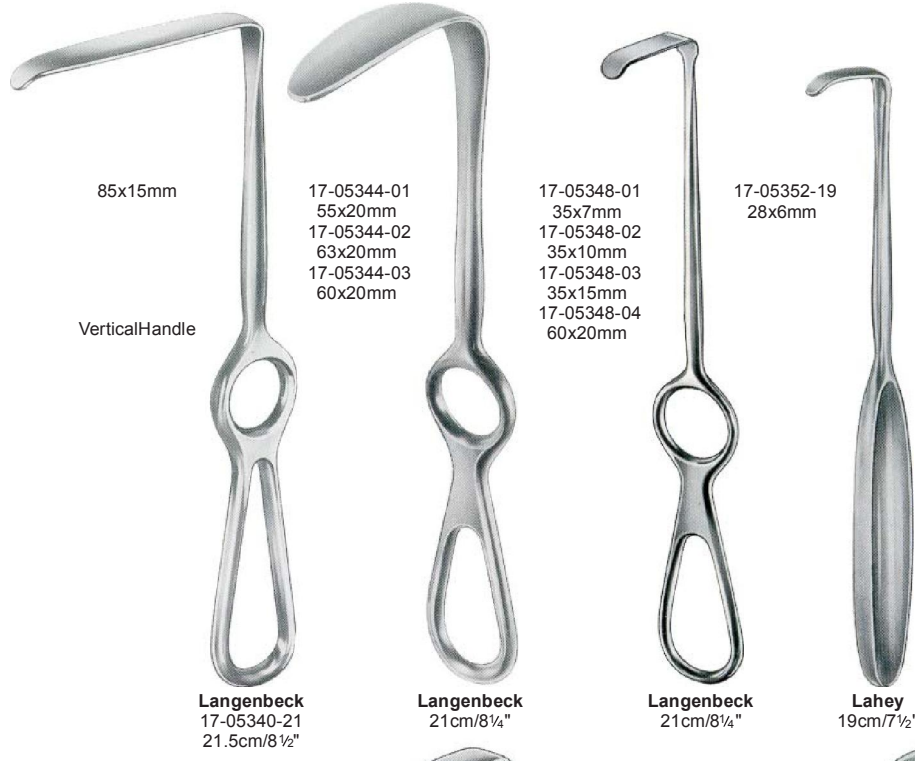


17-05312-06





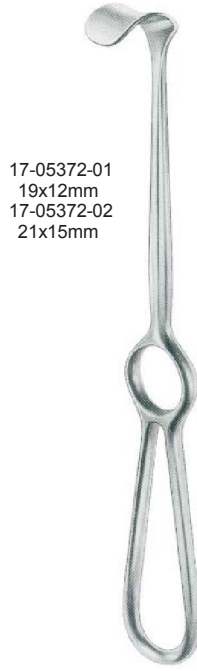






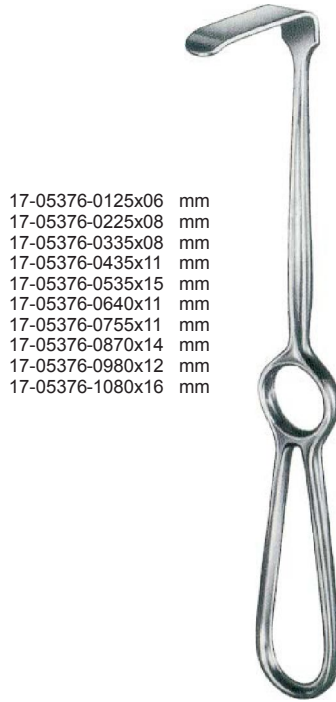
38x20mm

**Kocher**  
17-05368-22  
22cm/8¾"



17-05372-01  
19x12mm  
17-05372-02  
21x15mm

**Kocher**  
19cm/7½"



17-05376-0125x06 mm  
17-05376-0225x08 mm  
17-05376-0335x08 mm  
17-05376-0435x11 mm  
17-05376-0535x15 mm  
17-05376-0640x11 mm  
17-05376-0755x11 mm  
17-05376-0870x14 mm  
17-05376-0980x12 mm  
17-05376-1080x16 mm

**Kocher-Langenbeck**  
21.5cm/8½"



67x17cm

**Casper**  
17-05380-21  
21.5cm/8½"

17-05388-01  
22x15mm



17-05388-02  
38x20mm



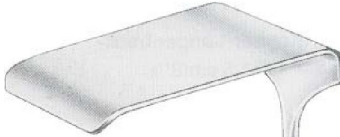
17-05388-03  
67x25mm



17-05388-04  
100x35mm



17-05384-01  
40x18mm  
17-05384-02  
60x20mm  
17-05384-03  
60x25mm  
17-05384-04  
75x30mm  
17-05384-05  
75x40mm



**Kocher**  
23cm/9"



**Kocher-Wagner**  
28cm/11"



17-05392-01  
60x20mm  
17-05392-02  
80x30mm  
17-05392-03  
100x30mm  
17-05392-04  
120x30mm  
17-05392-05  
140x30mm  
17-05392-06  
140x40mm



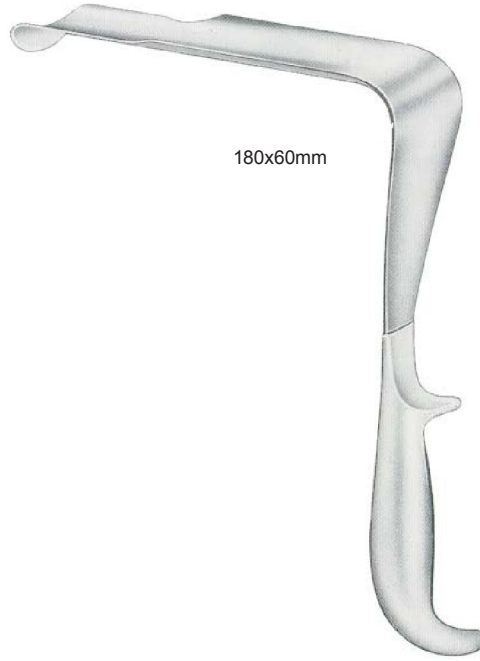
**Heosel**  
25cm/10"





130x60mm

**St.Marks**  
17-05396-29  
29cm/11½"



180x60mm

**St.Marks**  
17-05396-32  
32.5cm/12¾"



180x60mm

**St.Marks**  
17-05396-33  
33cm/13"



17-05400-01  
70x40mm  
17-05400-02  
70x50mm  
17-05400-03  
70x65mm

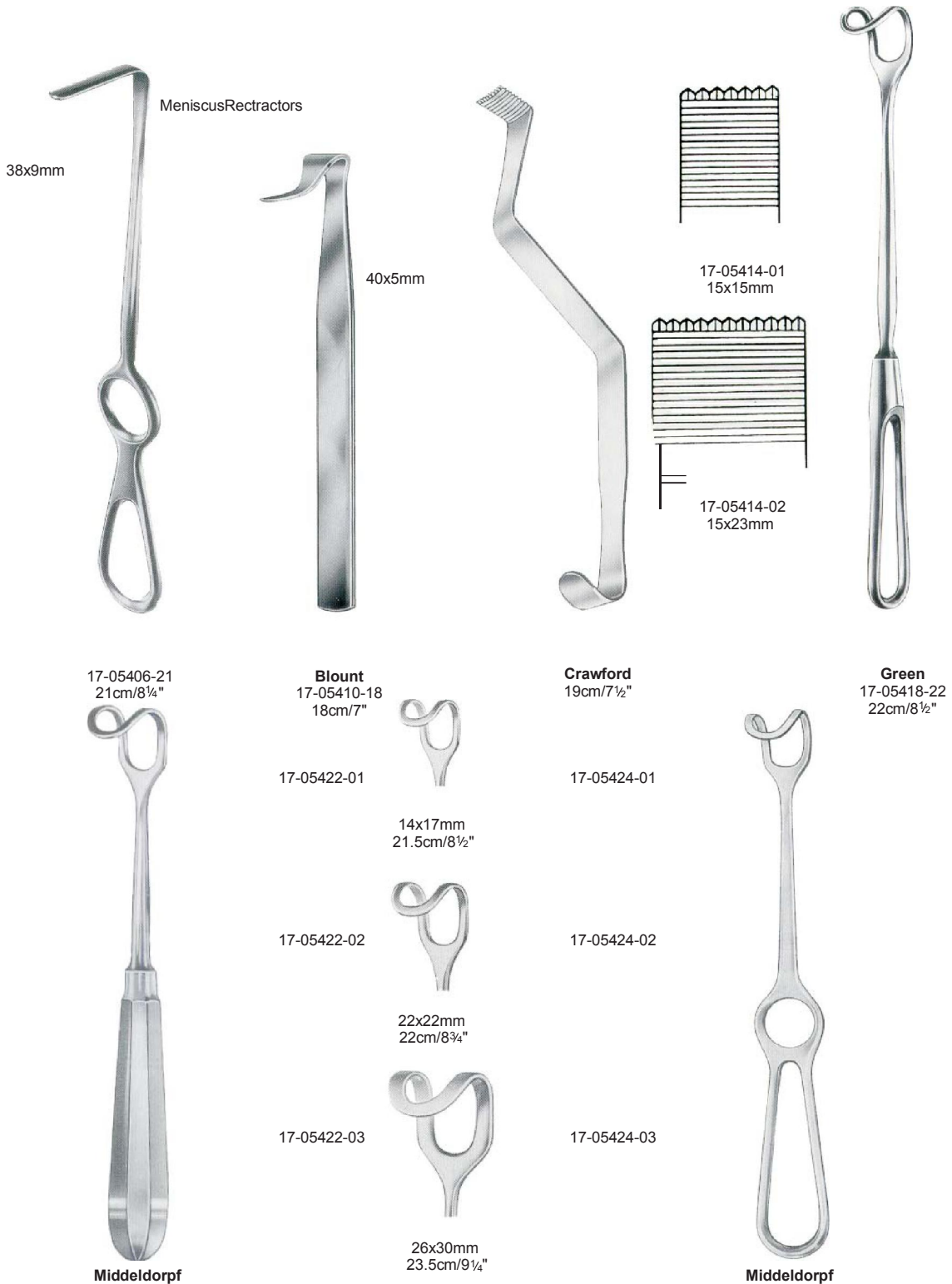
**Morris**  
21cm/8¼"



17-05402-01  
32x50mm/38x50mm  
17-05402-02  
45x50mm/50x50mm  
17-05402-03  
65x50mm/38x50mm

**Morris**  
24cm/9½"







17-05426-01  
45x45mm

**Middeldorpf**  
25.5cm/10"

- 17-05426-01  
45x45mm
- 17-05426-02  
45x50mm
- 17-05426-03  
55x70mm



**Richardson**  
26cm/10¼"

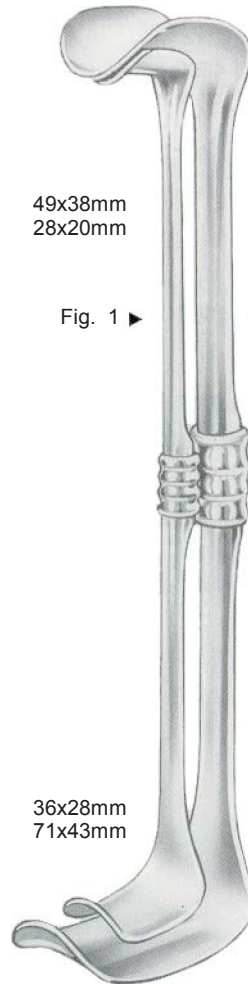


17-05430-01  
28x20mm

17-05430-02  
30x28mm

17-05430-03  
38x37mm

17-05430-04  
52x22mm



49x38mm  
28x20mm

Fig. 1 ▶

36x28mm  
71x43mm

**Richardson-Eastman**

Set 17-05434-00

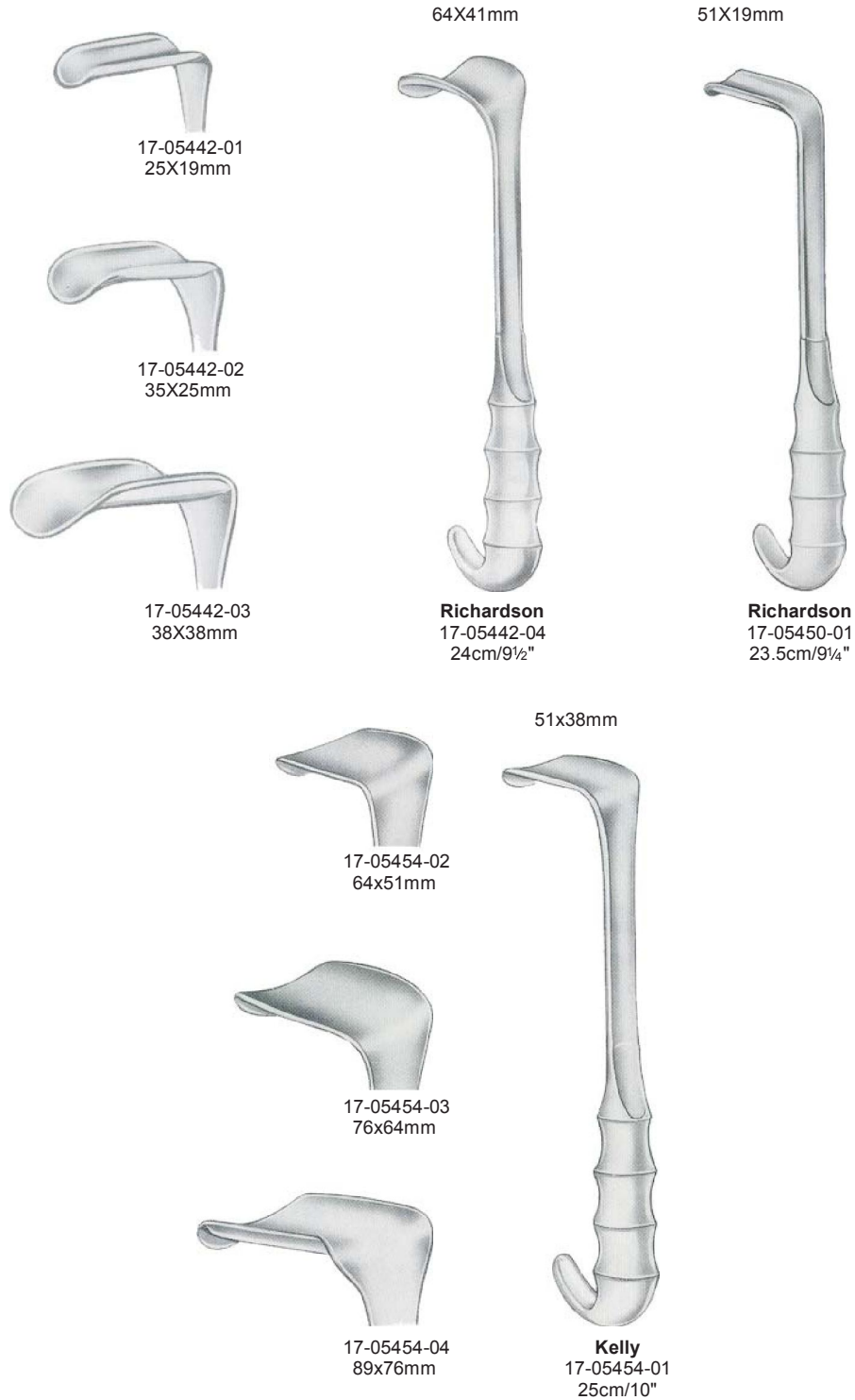
Fig. 1  
26cm/10¼" 17-05434-01

Fig. 2  
28cm/11" 17-05434-02



**Kelly**  
26cm/10¼"

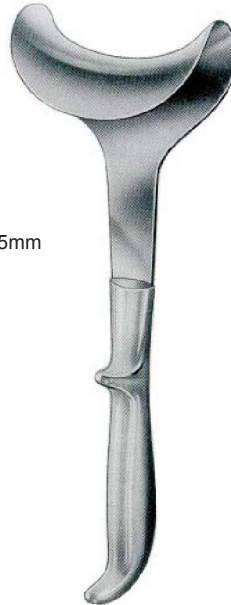
- 17-05438-01  
40x50mm
- 17-05438-02  
50x65mm
- 17-05438-03  
65x75mm
- 17-05438-04  
75x90mm





17-05458-01  
45x40mm  
17-05458-02  
45x50mm  
17-05458-03  
45x60mm  
17-05458-04  
45x75mm  
17-05458-05  
65x85mm

**Fritsch**  
24cm/9½"



50x85mm

**Doyen**  
17-05462-25  
25cm/10"



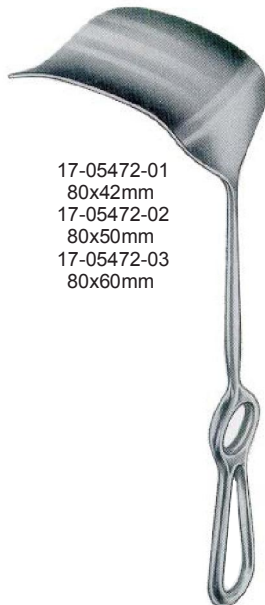
17-05466-01  
15x90mm  
17-05466-02  
20x90mm  
17-05466-03  
30x90mm  
17-05466-04  
35x110mm  
17-05466-05  
40x110mm  
17-05466-06  
55x120mm

**Doyen-Stille**  
24cm/9½"



70x25mm

**Kocher**  
17-05470-22  
22.5cm/9"



17-05472-01  
80x42mm  
17-05472-02  
80x50mm  
17-05472-03  
80x60mm

**Kocher**  
25cm/10"



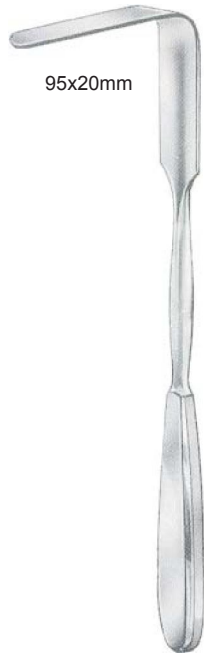
60x60mm

**Tuffier**  
17-05476-23  
23cm/9"



17-05480-01  
115x22mm  
17-05480-02  
115x27mm

**Simon**  
28cm/11"



95x20mm

**Tubingen**  
17-05484-28  
28cm/11"



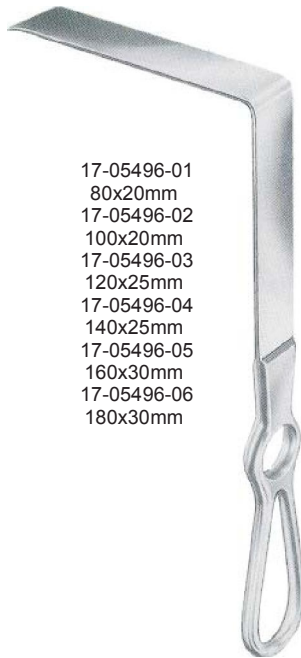
105x27mm

**Martin**  
17-05488-26  
26cm/10¼"



17-05492-01  
80x20mm  
17-05492-02  
100x25mm  
17-05492-03  
120x25mm  
17-05492-04  
130x30mm  
17-05492-05  
140x20mm  
17-05492-06  
160x30mm  
17-05492-07  
180x30mm

**Brunner**  
25cm/10"



17-05496-01  
80x20mm  
17-05496-02  
100x20mm  
17-05496-03  
120x25mm  
17-05496-04  
140x25mm  
17-05496-05  
160x30mm  
17-05496-06  
180x30mm

**Brunner**  
25cm/10"



17-05500-01  
85x35mm  
17-05500-02  
120x50mm  
17-05500-03  
155x50mm

**Mikulicz**  
26cm/10¼"



90x50mm

**Mikulicz**  
17-05502-26  
26cm/10¼"



17-05506-01  
160x38mm  
17-05506-02  
160x57mm  
17-05508-01  
190x38mm  
17-05508-02  
190x57mm

**Kelly**  
27cm/10½"



**Polloson**  
17-05510-27  
27cm/10½"



**Polloson**  
17-05512-27  
27cm/10½"

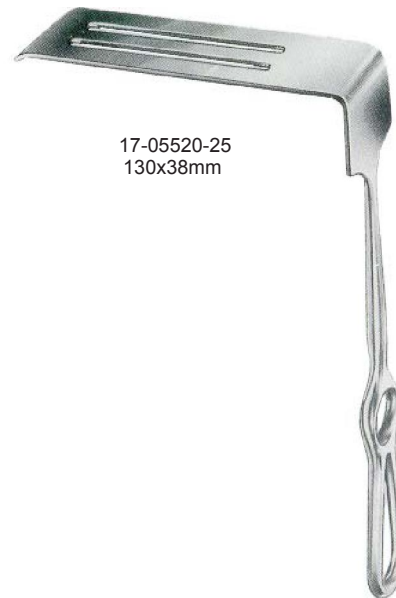


17-05516-03  
115x65mm

17-05516-02  
115x38mm

17-05516-01  
82x20mm

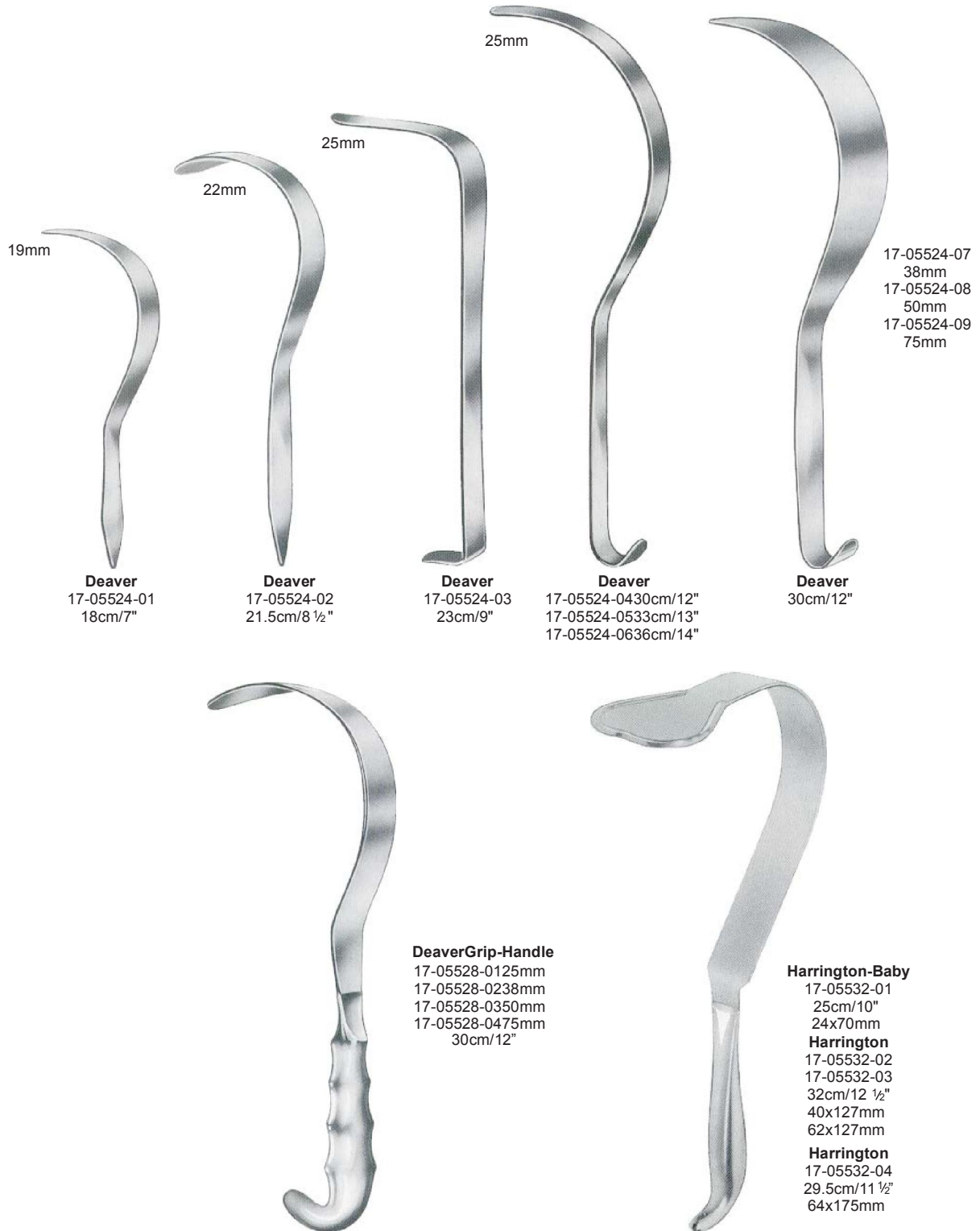
**Coryllos**  
23.0cm/9"



17-05520-25  
130x38mm

**Sauerbruch**  
25cm/10"







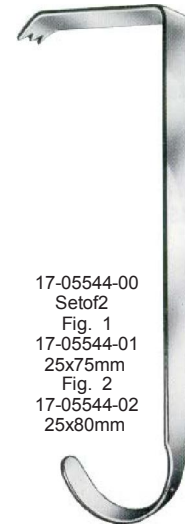
17-05536-01  
50x16mm  
17-05536-02  
75x25mm  
17-05536-03  
90x50mm

**Meyerding**  
22.5cm/9"



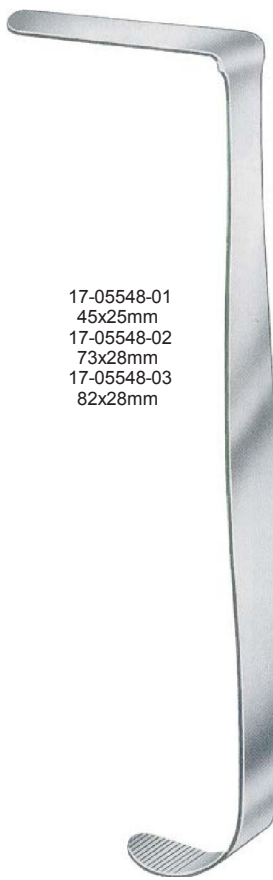
**Zenker**

17-05540-01 25cm/10" 35x08mm  
17-05540-02 26cm10¼" 60x12mm  
17-05540-03 27.5cm/10¾" 75x12mm



17-05544-00  
Setof2  
Fig. 1  
17-05544-01  
25x75mm  
Fig. 2  
17-05544-02  
25x80mm

**Hibbs**  
24cm/9½"



17-05548-01  
45x25mm  
17-05548-02  
73x28mm  
17-05548-03  
82x28mm

**Heaney**  
27cm/10½"

46mm



**Kuemmel**  
17-05552-33  
33cm/13"



100x45mm

rigid

**Koerte**  
17-05556-28  
28cm/11"

17-05560-20  
20mm  
17-05560-30  
30mm  
17-05560-40  
40mm



**Kader**  
27cm/10½"



17-05564-01  
25.5cm/10"  
45mm  
17-05564-02  
27.5cm/10¾"  
60mm

**Leriche**



**Malleable**  
17-05568-01 20mm  
17-05568-02 25mm  
17-05568-03 30mm  
17-05568-04 35mm  
17-05568-05 40mm  
17-05568-06 45mm  
17-05568-07 50mm  
17-05568-08 64mm  
17-05568-09 76mm  
17-05568-10/102mm  
33cm/13"

Malleable



**Tuffier**  
17-05570-20  
20cm/8"  
17x25mm

Malleable

17-05572-01  
200x6mm  
17-05572-02  
200x8mm  
17-05572-03  
200x10mm  
17-05572-04  
200x12mm  
17-05572-05  
200x17mm  
17-05572-06  
200x20mm  
17-05572-07  
200x25mm  
17-05572-08  
250x25mm



20cm/8"

Malleable

17-05574-01  
280x25/30mm  
17-05574-02  
300x37/45mm  
17-05574-03  
300x40/50mm



**Haberer**  
21cm/8¼"



**Reverdin**  
17-05578-28  
28cm/11"



**Davidson**  
16cm/6¼"  
75x50mm  
75x90mm  
17-05582-01  
17-05582-02

**Cooley**  
17-05586-01  
21.5cm/8½"

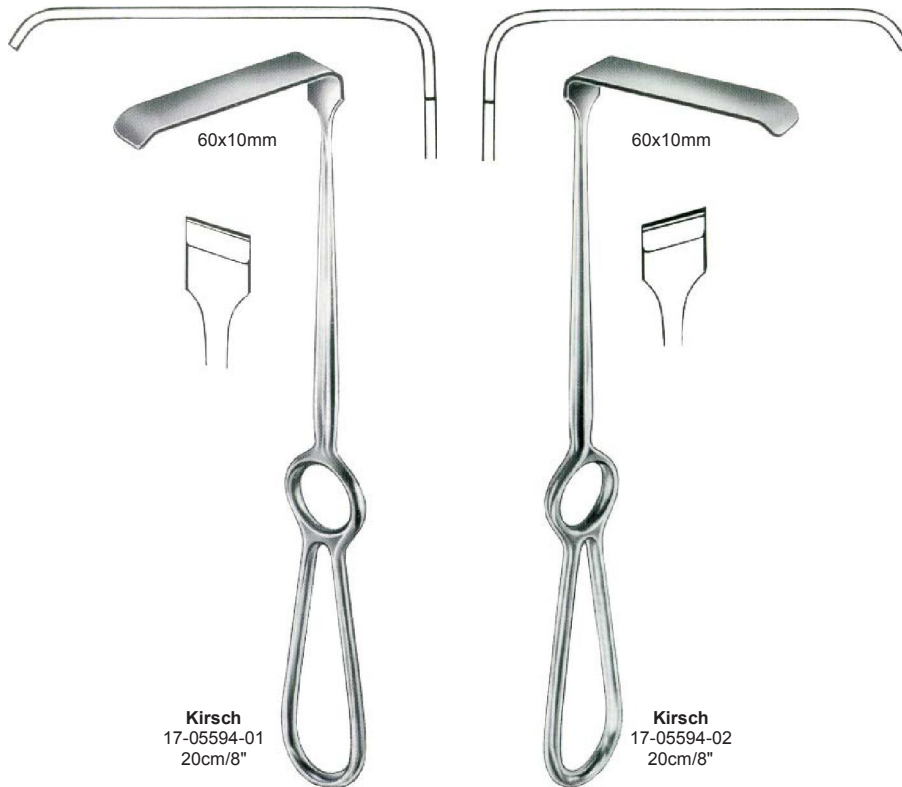
**Cooley**  
17-05586-02  
21.5cm/8½"

**Cooley**  
17-05586-03  
23cm/9"



**Ross**  
27cm/10½"

- Fig. 1 17-05590-01 13x13mm
- Fig. 2 17-05590-02 14x12mm
- Fig. 3 17-05590-03 18x18mm
- Fig. 4 17-05590-04 20x20mm
- Fig. 5 17-05590-05 22x18mm
- Fig. 6 17-05590-06 26x24mm





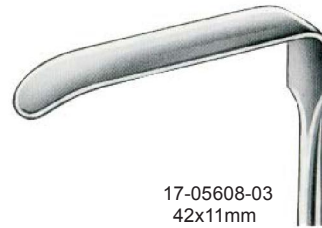
22cm/8¾"



17-05608-01  
25x7mm



17-05608-02  
31x10mm



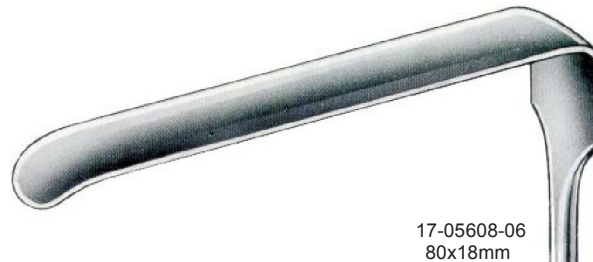
17-05608-03  
42x11mm



17-05608-04  
55x12mm



17-05608-05  
70x14mm



17-05608-06  
80x18mm





22cm/8¾"



17-05612-01  
42x13mm



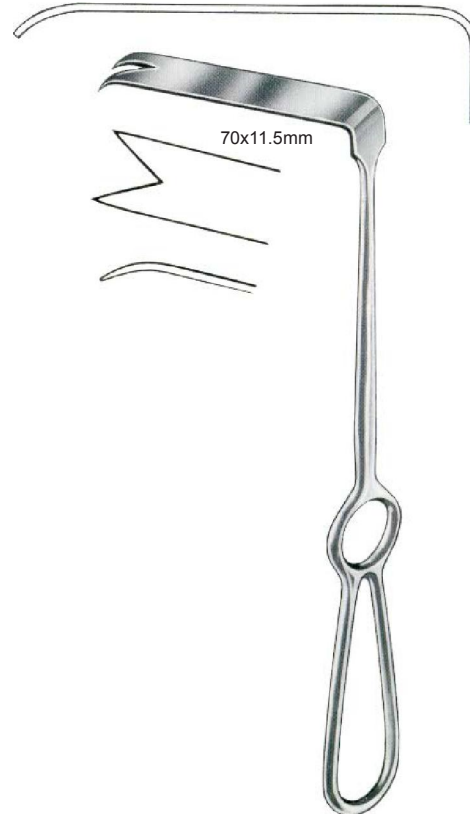
17-05612-02  
60x12mm



17-05612-03  
80x16mm



**Spina-Nasalis**  
17-05616-01  
22cm/8 3/4"



**Ramus**  
17-05616-02  
22cm/8 3/4"



17-05620-15  
15.5cm/6"



17-05624-16  
16cm/6 1/4"



17-05627-10 10mm  
17-05627-20 20mm  
19cm/7½"



**Dingman**  
17-05629-17  
17.5cm/7"



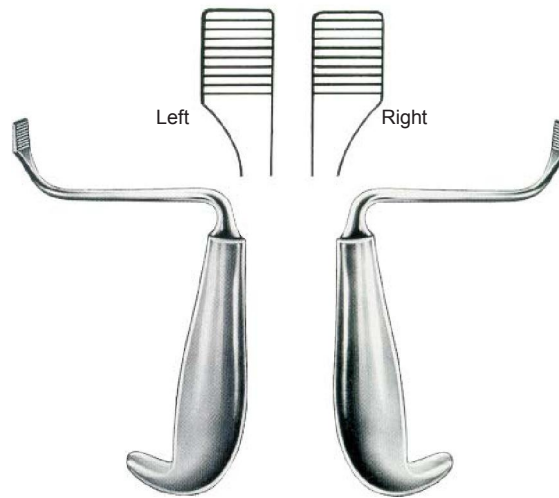
**Soeresen-Hein**  
17-05632-17  
17.5cm/7"



**Dingman**  
17-05636-21  
21cm/8¼"



17-05640-18  
18.5cm/7¼"

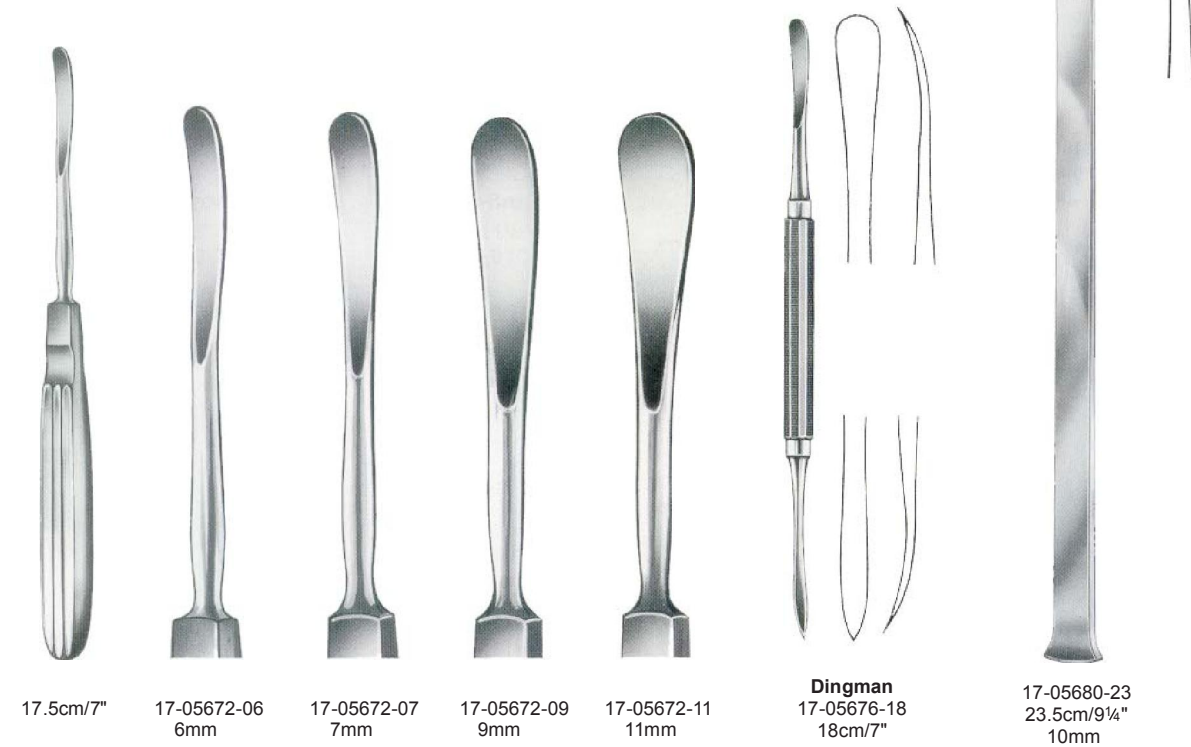
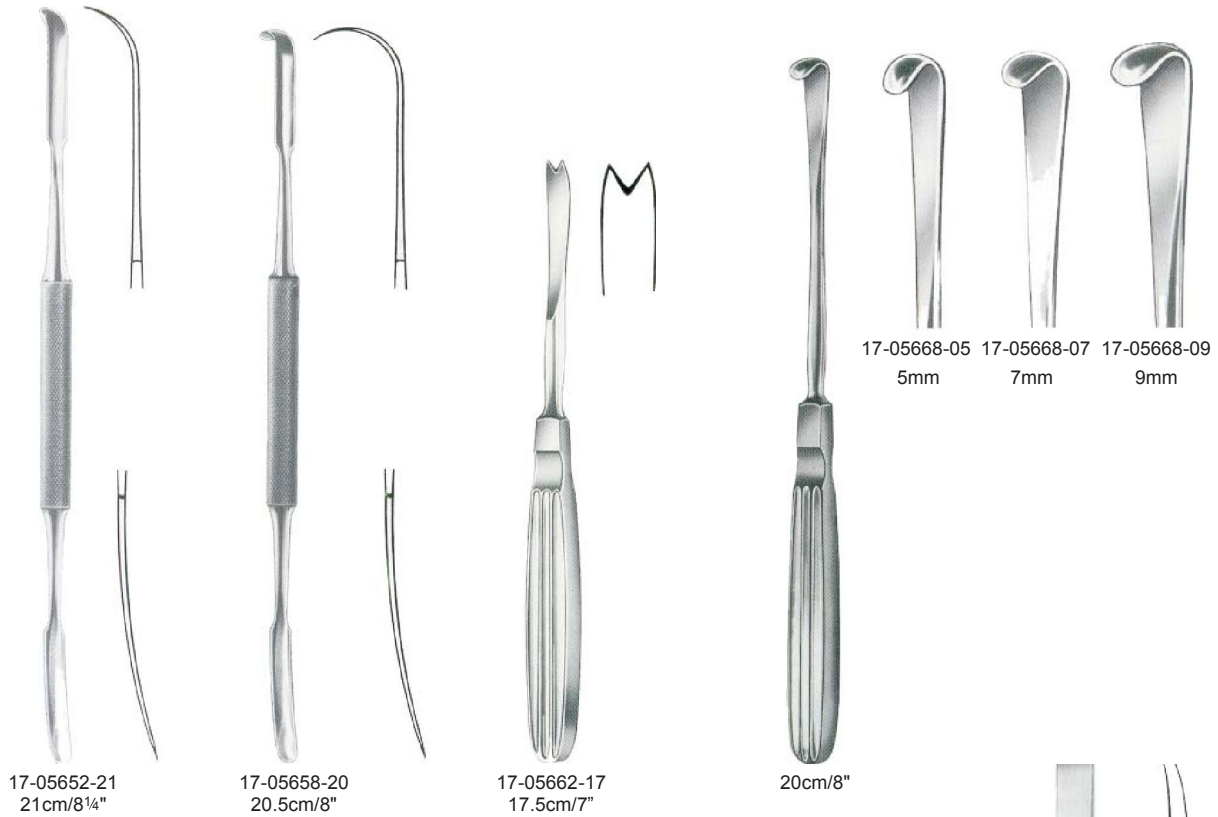


**Tessier**  
17-05644-01  
15cm/6"

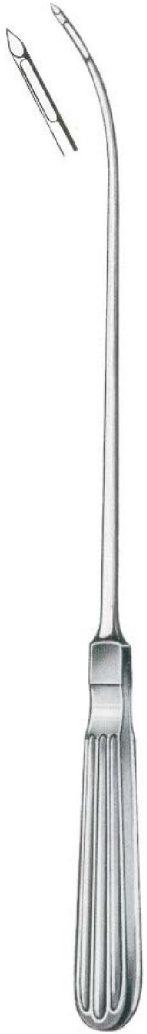
**Tessier**  
17-05646-02  
15cm/6"



**Dingman**  
17-05648-00







**Sanders-Brown**  
17-05712-30  
30cm/12"



**Sanders-Brown**  
17-05716-29  
29cm/11½"



17-05720-14  
14cm/5½"



17-05722-23  
23cm/9"



17-05724-18  
18cm/7"



**Kelsey-Fry**  
17-05726-15  
15cm/6"



**Kelsey-Fry**  
17-05728-18  
18cm/7"



**Mershon**  
17-05732-14  
14.5cm/5½"





**Bose**



**Finsen**

Sharp

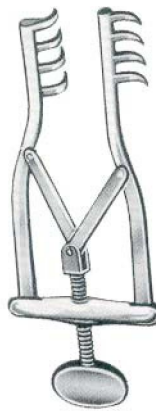


**Finsen**

Blunt

Sharp

cm	in				
5	2		17-05739-05		17-05740-05
7	2¾"	17-05736-07	17-05739-07	17-05740-07	17-05743-07



**Allport**

17-05750-09  
9.5cm/3¾"

Sharp



**Alm**

Blunt

cm	in		cm	in		
8.5	3 ½"	17-05746-08	7	2¾"	17-05753-07	17-05756-07
11.5	4 ½"	17-05746-11	10	4	17-05753-10	17-05756-10



**Holzheimer**  
 Sharp 17-05759-10 10cm/4"  
 blunt 17-05760-10



**Jansen**  
 Sharp 17-05763-10 10.5cm/4 1/4"  
 blunt 17-05764-10



**Jansen-Deep**  
 Sharp 17-05767-10 10.5cm/4 1/4"  
 blunt 17-05768-10



**Plester**  
 17-05772-11  
 11.5cm/4 1/2"



**Plester**  
 17-05774-11  
 11.5cm/4 1/2"



Sharp 17-05777-13 **Plester**  
 blunt 17-05778-13



**Weitlaner**

Sharp Blunt

10.5cm/4 1/4"	17-05781-10	17-05782-10
13.0cm/5"	17-05781-13	17-05782-13
14.0cm/5 1/2"	17-05781-14	17-05782-14
16.5cm/6 1/2"	17-05781-16	17-05782-16



**Weitlaner**

Sharp Blunt

17-05785-13	17-05786-13
17-05785-14	17-05786-14
17-05785-16	17-05786-16



**Weitlaner-Wullstein**

Sharp Blunt

17-05789-13	17-05790-13
17-05789-14	17-05790-14
17-05789-16	17-05790-16



**Mollison**  
17-05793-15  
15cm/6"



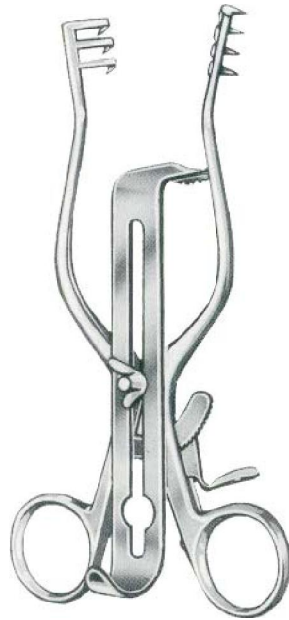
**Tuebinger-Modell**  
17-05796-16  
16cm/6 1/4"



**Henner(Lempert)**  
17-05800-12  
12cm/4 1/2"

Completerwith2pairs of bladesandcentreblade

Completo with 3 Central blades



**Henley**

Sharp		Blunt
17-05803-16	16.5cm/6 1/2"	17-05804-16

Central blades, only



17-05805-19	17-05805-25	17-05805-32
16x19mm	16x25mm	16x32mm



**Weitlaner-Baby**

13cm/5"	17-05808-13
16cm/6 1/4"	



**Milligan**

Sharp	Blunt
17-05811-13	17-05812-13



**Cone (Adson-Baby)**

Sharp	Blunt
17-05815-13	17-05816-13
17-05815-16	17-05816-16



**Weitlaner**



3x4Teeth



5x6Teeth

	Sharp	Blunt	Sharp	Blunt
20cm/8"	17-05819-20	17-05820-20		
25cm/10"	17-05819-25	17-05820-25	17-05821-25	17-05822-25



**Adson**



**Anderson-Adson**



**Cone**

	Sharp	Blunt	Sharp	Blunt	Sharp	Blunt
20cm/8"	17-05823-20	17-05824-20	17-05827-20	17-05828-20	17-05831-20	17-05832-20
26cm/10 1/4"	17-05823-26	17-05824-26			17-05831-26	17-05832-26





**Travers**  
17-05836-21  
21cm/8 1/4"

**JawsDepth**

25mm	17-05839-01
44mm	17-05839-02



**Beckmann-Adson**  
31cm/12 1/4"

Sharp	17-05840-01	Blunt	17-05840-02
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**Adson**  
27cm/10 1/2"

Sharp 17-05843-27  
Blunt 17-05844-27



5x6Teeth



**Adson**

Sharp 17-05847-27 27cm/10½"  
Blunt 17-05848-27



**Beckmann-Adson  
(Standard)**

Sharp 17-05851-31 31cm/12¼"  
Blunt 17-05852-31



**Adson**

17-05856-33 33cm/13"

Hemilaminectomy Retractor



17-05861-27  
27cm/10½"



**Beckmann-Eaton**  
17-05864-33  
33cm/13"

Retractor Only  
17-05868-01

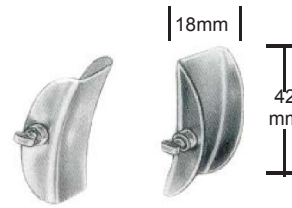
Lateral Blades  
17-05868-02



**Collin**  
17-05868-00  
20cm/8"



**Baby-Collin**  
17-05872-00

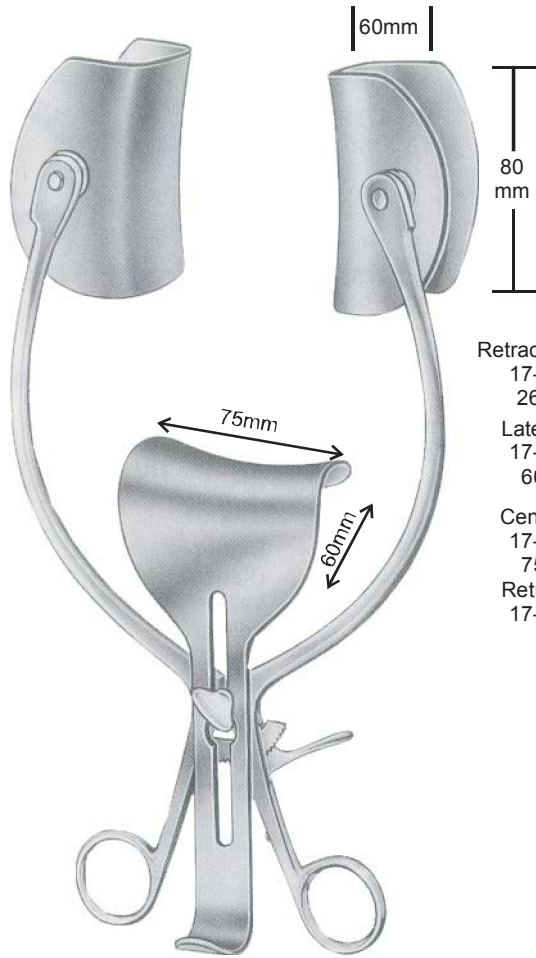


17-05872-01



**Collin**  
20cm/8"

	Fig. 1	Fig. 2	Fig. 3
Retractors Complete	17-05876-00	17-05878-00	17-05880-00
Retractors Only	17-05876-01	17-05878-01	17-05880-01
Lateral Blades	17-05876-02 38x62mm	17-05878-02 38x80mm	17-05880-02 38x100mm
Central Blades	17-05876-03 55x55mm		17-05880-03 55x75mm



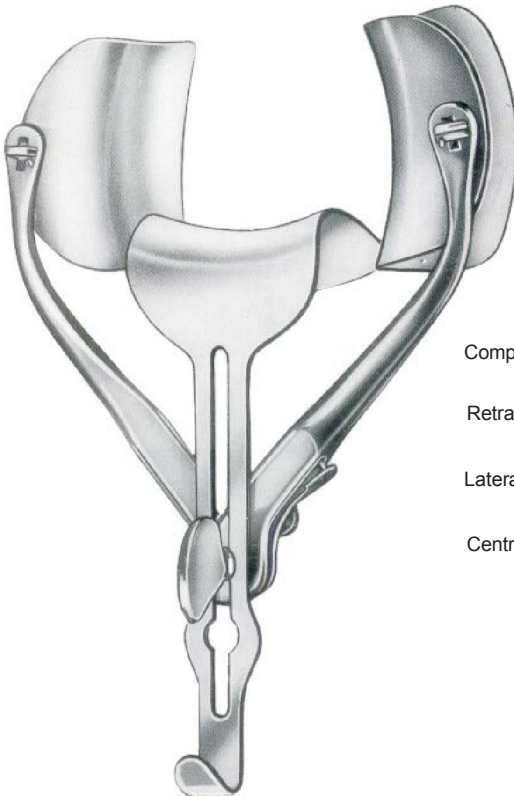
**Collin**

- Retractor Complete  
17-05884-00  
26cm/10½"
- Lateral Blades  
17-05884-01  
60X80mm
- Central Blades  
17-05884-02  
75X60mm
- Retractor Only  
17-05884-03



**Mayo-Adams**  
17-05886-01  
17cm/6¾"

**Mayo-Adams**  
17-05886-02  
17cm/6¾"



**Ricard**  
17-05890-00 28cm/11"  
17-05894-00 30cm/12"

Complete	Fig. 1 17-05890-00	Fig. 2 17-05894-00
RetractorsOnly	17-05890-01	17-05894-01
LateralBlades	17-05890-02 60x80mm	17-05894-02 75x85mm
CentralOnly	17-05890-03 53x70mm	17-05894-03 80x90mm

VulvalRetractor



**Richter**  
17-05898-16  
16.5cm/6 1/2"



**Gelpi**  
17-05902-09 9cm/3 1/2"  
17-05902-11 11cm/4 1/2"  
17-05902-13 13cm/5"  
17-05902-19 19cm/7 1/2"



**Gelpi**  
17-05904-19  
19cm/7 1/2"



**Meyerding**  
Fig. 117-05908-01  
Fig. 217-05908-02  
Fig. 317-05908-03  
Fig. 417-05908-04  
18cm/7"

Blades

- Fig. 1 1 3/4"x1"
- Fig. 2 2 1/8"x1"
- Fig. 3 2 3/8"x1 3/4"
- Fig. 4 2 3/8"x1"





**Markham-Meyering**

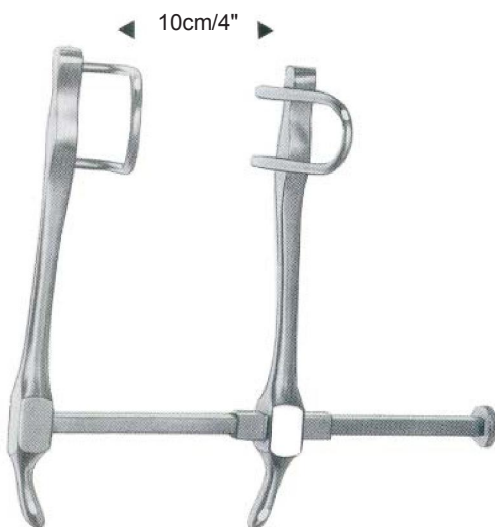
17-05912-18 18cm/7" 17-05914-18

**Rigby**

17-05918-19  
19cm/7½"

**DeBakey**

17-05922-12 12cm/4¾"  
17-05922-17 17cm/6¾"



**Gosset**  
17-05926-00

Fig.1 ◀ 10cm/4" ▶  
Fig.2 ◀ 14cm/5½" ▶



**Gosset**  
Fig.1 17-05928-01  
Fig.2 17-05928-02

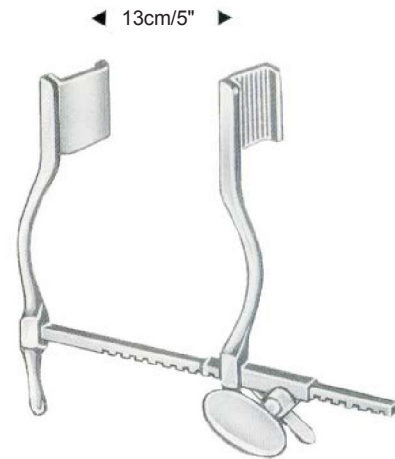




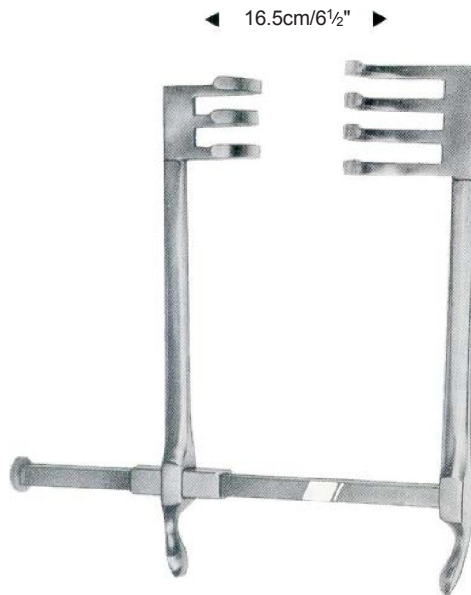
Retractors Only  
17-05932-01

Central Blade  
17-05932-02  
56X60mm

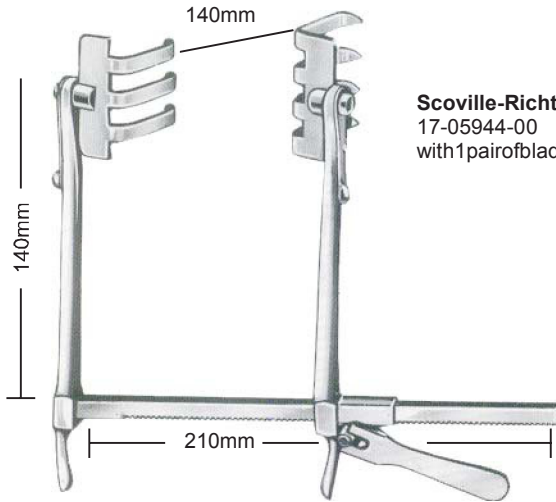
**Gosset**  
17-05932-00



**Hertzer**  
17-05936-00

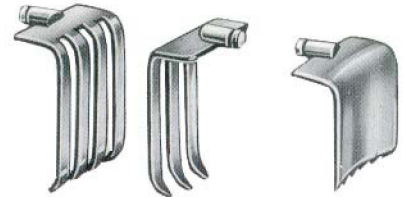


**Frazier**  
17-05940-00



**Scoville-Richter**  
17-05944-00  
with 1 pair of blades 17-05944-01

the blades are available by pairs



17-05944-01  
60x50mm

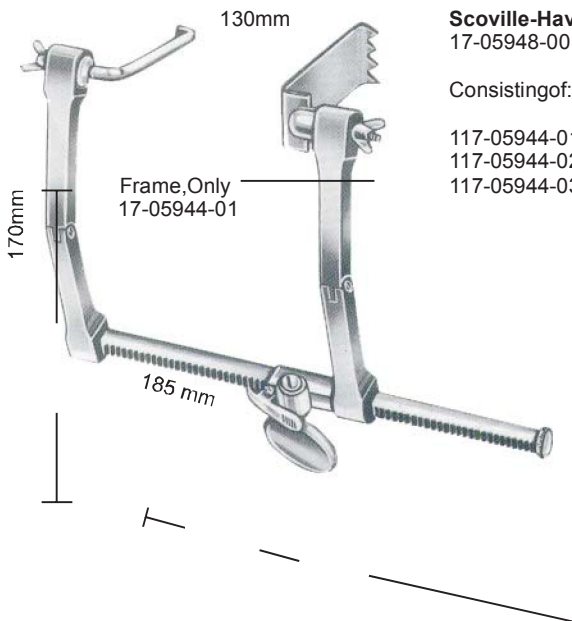
17-05944-02  
48x50mm



17-05944-03  
28x40mm



17-05944-04  
38x62mm



**Scoville-Haverfield**  
17-05948-00

Consisting of:

- 117-05944-01
- 117-05944-02
- 117-05944-03

Frame, Only  
17-05944-01



**Scoville**  
17-05948-02  
51mm



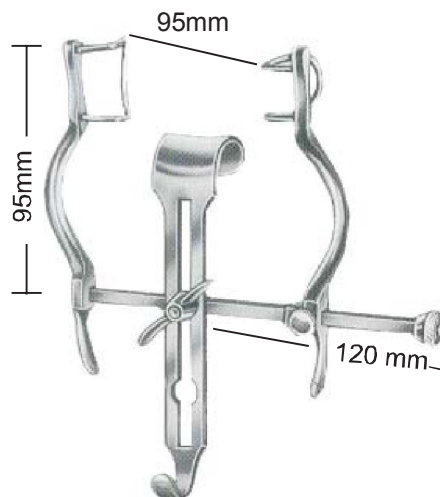
**Scoville**  
17-05948-03 63x25mm  
17-05948-04 63x51mm  
17-05948-05 67x32mm  
17-05948-06 89x25mm



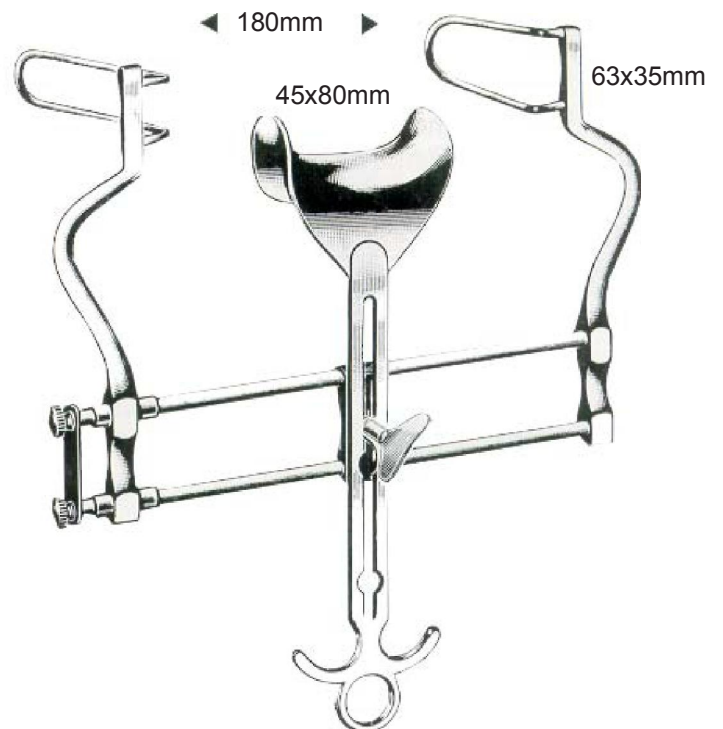
**Taylor**  
17-05948-07  
48x38mm



**Taylor**  
17-05948-08 63x51mm  
17-05948-09 79x57mm



**Baby-Balfour**  
17-05952-00



**Balfour**  
17-05956-00

RetractorComplete

RetractorOnly

CentralBladeOnly

17-05952-01

17-05952-02

17-05956-01

17-05956-02



RetractorComplete  
17-05960-00

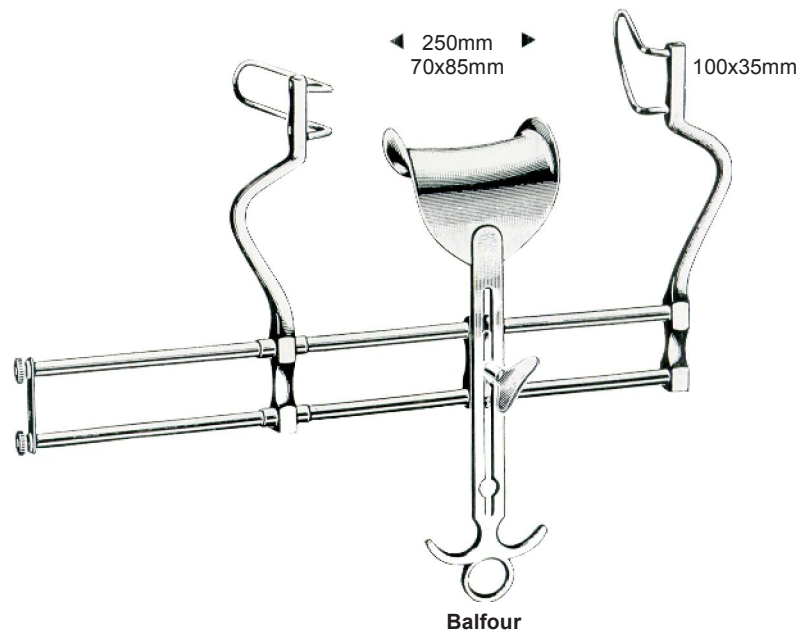
RetractorOnly  
17-05960-01

CentralBladeOnly  
17-05960-02

Retractor,Complete  
17-05964-00

RetractorOnly  
17-05964-01

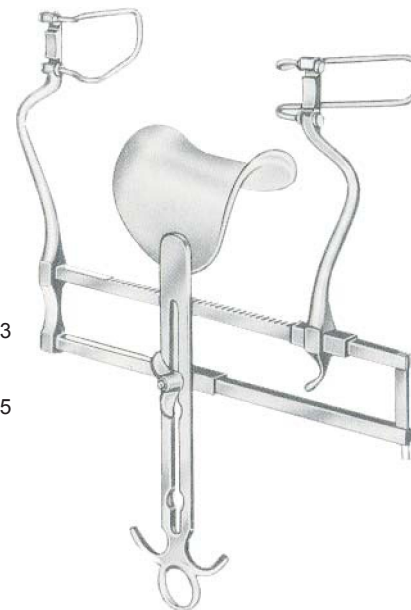
CentralBladeOnly  
17-05964-02





**Balfour**

- Retractor, complete  
17-05968-00
- Retractor, only  
17-05968-01
- Centralblade, only  
17-05968-02



**BalfourUSA-Modell**

Retractor, complete  
17-05972-00

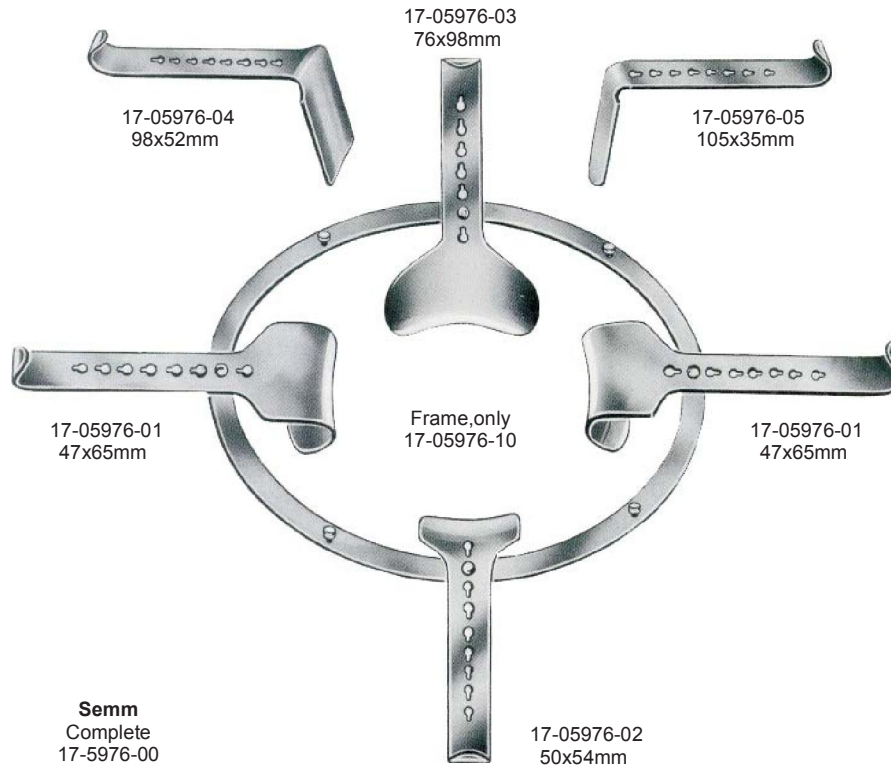
Retractor, only  
17-05972-01

Centralblade, only  
17-05972-02  
45x68mm

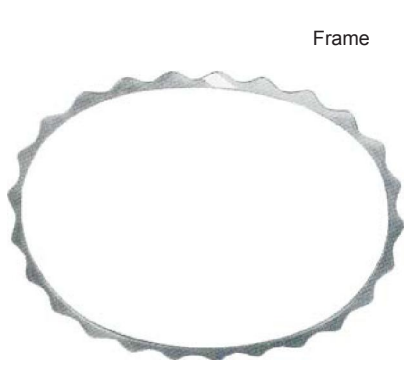
Lateralblades, only  
17-05972-04  
60mm

17-05972-03  
68x85mm

17-05972-05  
80mm







Frame

17-05988-10 178x140mm  
17-05990-20 255x178mm



Fig.1 17-05988-01 38x38mm  
Fig.2 17-05988-02 38x25mm

Complete  
17-05988-00  
17-05990-00

**Denis-Brown**  
Consisting of

1x 17-05988-10  
1x 17-05990-20

2x 17-05988-01  
2x 17-05988-01

2x 17-05988-02  
2x 17-05988-02



110x70mm

**O'Sullivan-O'Connor**  
Complete  
17-05994-00



17-05994-01  
80x45mm

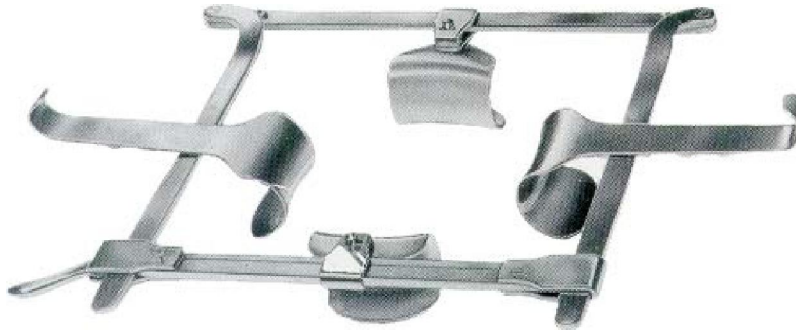


17-05994-02  
80x45mm



17-05994-03  
110x70mm

17-05998-01 38x60mm  
17-05998-02 45x80mm



17-05998-03 50x65mm  
17-05998-04 60x85mm

FoldableFrame  
17-05998-10

### Franz

Completo with 4 valves  
17-5998-00

With con  
17-05998-10 1x  
17-05998-01 2x  
1705998-03 2x

Completo with 8 valves  
17-5999-00

With con  
17-05998-10 1x  
17-05998-01 2x  
1705998-02 2x  
17-05998-03 2x  
17-05998-04 2x



17-06002-01 48x90mm  
17-06002-02 48x105mm  
17-06002-03 48x120mm  
17-06002-04 48x135mm

**Doyen**  
28cm/11"



cm	In	1.0mm Ø	1.5mm Ø	2.0mm Ø	2.0mm Ø	Watson-Cheyne	Fish
11.5	4 1/2"	18-06004-11	18-06006-11	18-06008-11			
13	5"	18-06004-13	18-06006-13	18-06008-13			
14.5	5 3/4"	18-06004-14	18-06006-14	18-06008-14	18-06010-14	18-06012-14	18-06020-14
16	6 1/4"	18-06004-16	18-06006-16	18-06008-16	18-06010-16	18-06012-16	
18	7"	18-06004-18	18-06006-18	18-06008-18		18-06012-18	18-06020-18
20	8"	18-06004-20	18-06006-20	18-06008-20		18-06012-20	
25	10"	18-06004-25	18-06006-25	18-06008-25			



cm	In				Nelaton	Stacke 1.0mm Ø	Brodie
10.5	4 1/4"					18-06036-10	
11.5	4 1/2"	18-06024-11					
13	5"	18-06024-13		18-06028-13	18-06032-13		
14.5	5 3/4"	18-06024-14	18-06025-14	18-06028-14	18-06032-14		
16	6 1/4"	18-06024-16		18-06028-16	18-06032-16	18-06033-16	18-06040-16
18	7"	18-06024-18		18-06028-18			
20	8"	18-06024-20			18-06032-20		

Oftin

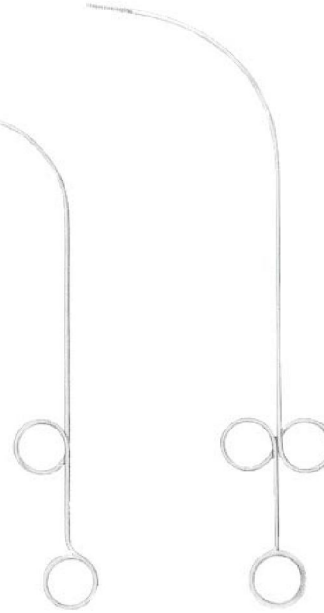


18-06044-25 25cm/10"  
18-06044-30 30cm/12"  
18-06044-40 40cm/15 3/4"

Plasterspatulas



18-06048-13 13cm/5"  
18-06048-14 14cm/5 1/2"



**Pelteson**  
18-06052-23  
23cm/9"

**Fein**  
18-06054-28  
28cm/11"



**Buie**  
18-06058-16  
16cm/6 1/4"

Fistulaprobes



**Lockhart-Mummary**  
16.5cm/6 1/2"



Fig.1  
18-6062-01



Fig.2  
18-6062-02

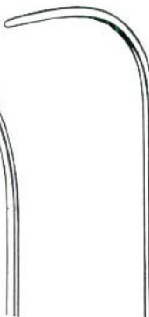


Fig.3  
18-6062-03



Fig.4  
18-6062-04



**Pratt**  
21cm/8 1/4"



18-06070-01



18-06070-02



18-06070-03



**Universal**

cm	in	1.2mm Ø	1.5mm Ø	1.7mm Ø
12.5	5"	18-06074-12		
16	6¼"	18-06074-16		
18	7"	18-06074-18	18-06075-18	18-06076-18



**Uckermann**  
18-06078-16  
16cm/6 ¼"



**Jobson-Horne**  
18-06080-1313cm/5"  
18-06080-1818cm/7"



Round      Triangular

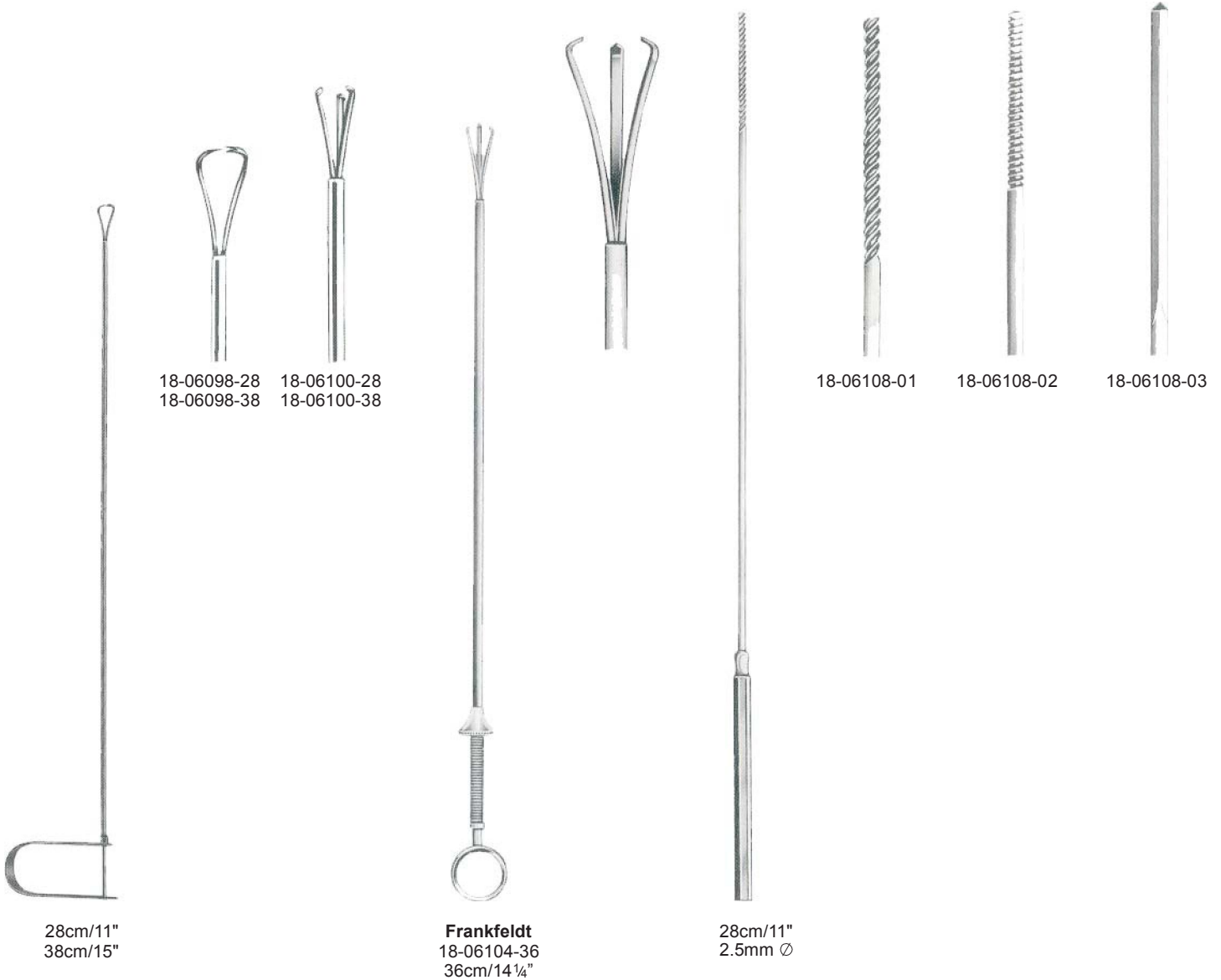
**Farrell  
(Farrell-Lathbury)**

cm	in	0.9mm Ø	1.1mm Ø	1.2mm Ø	1.5mm Ø
12	4¾"				
14	5½"			18-06084-14	18-06086-14
16	6¼"			18-06084-16	18-06086-16
18	7"				



Round      Triangular

1.2mm Ø	1.5mm Ø	1.5mm Ø
18-06090-12	18-06092-12	18-06094-12
18-06090-14	18-06092-14	18-06094-14
18-06090-16	18-06092-16	18-06094-16
18-06090-18	18-06092-18	18-06094-18

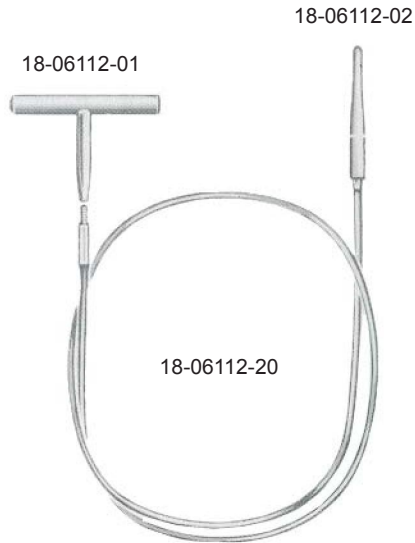






**Nabatoff**  
18-06112-00  
135x100x25mm

Sterilizable



18-06112-01

18-06112-02

18-06112-20



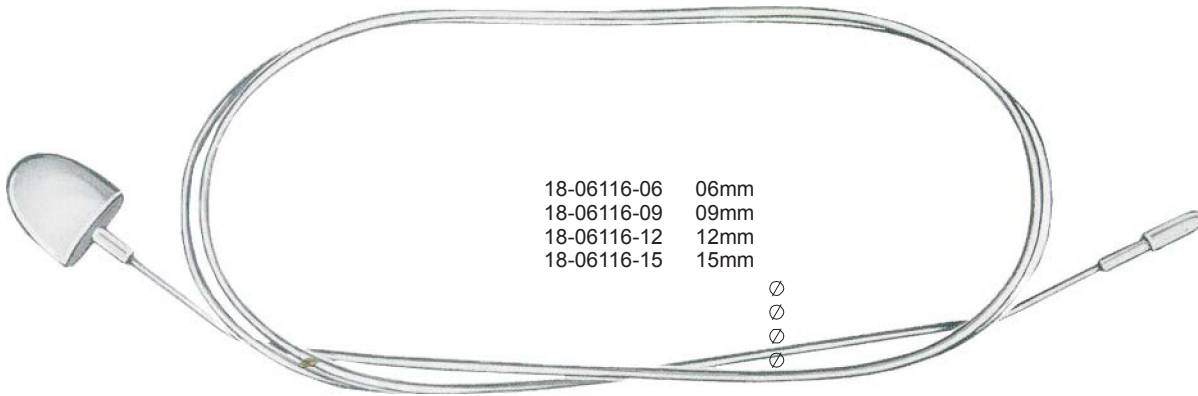
18-06112-03  
3mm Ø

18-06112-06  
6mm Ø

18-06112-09  
9mm Ø

18-06112-12  
12mm Ø

18-06112-15  
15mm Ø



18-06116-06 06mm  
18-06116-09 09mm  
18-06116-12 12mm  
18-06116-15 15mm

Myers

### Strippers



55cm/21½"

	mm Ø
18-06120-02	2.0
18-06120-03	3.0
18-06120-04	4.0
18-06120-06	6.0
18-06120-07	7.0
18-06120-08	8.5
18-06120-10	10.0
18-06120-12	12.0
18-06120-14	14.0



Handlefor  
18-06120-00

### ProbesforVaricoseVeins



Babcock

Malleable

cm	in	
40	13½"	18-06124-40
50	20"	18-06124-50
65	26"	18-06124-65
80	32"	18-06124-80

### VessellrigatingsCannulas



Schmid



18-06128-03  
3mm Ø



18-06128-04  
4mm Ø

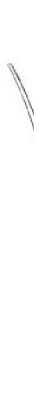


18-06128-05  
5mmØ



18-06128-06  
6mmØ

### Spatulas



3mm  
Blunt

18-06132-18 18.0cm/7"  
18-06132-21 21.5cm/8 ½"



Schmid



18-06136-14  
14cm/5 ½"  
5mm

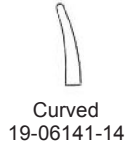


18-06136-24  
24cm/9 ¼"

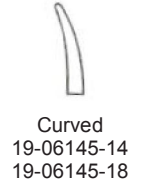
7mm



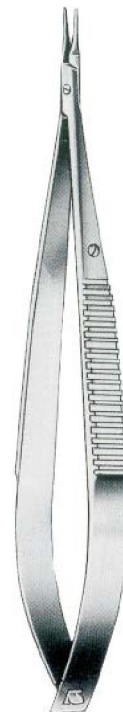
**Castroviejo**  
14cm/5 1/2"



**Castroviejo**



**Castroviejo**  
9cm/3 1/2"



**Castroviejo**  
14cm/5 1/2"





**Castroviejo**  
9cm/3 1/2"



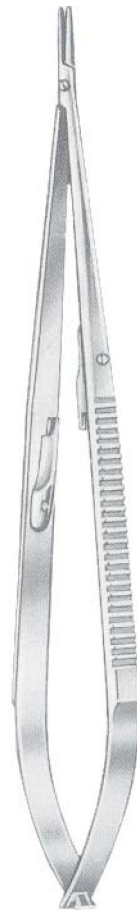
Straight  
19-06156-09



Curved  
19-06157-09



**Paton**  
19-06164-11  
11.5cm/4 1/2"



**Jacobson**

cm	in	Without ratchet	With ratchet
18	7"	19-06168-18	19-06170-18
21	8 1/4"	19-06168-21	19-06170-21



Straight  
19-06160-14



Curved  
19-06161-14



**Castroviejo**  
14cm/5 1/2"



Yasargil



Straight

- 19-06174-20 20.0cm/8"
- 19-06174-22 22.5cm/9"



Curved

- 19-06175-16 16.5cm/6 1/2"
- 19-06175-20 20.0cm/9"
- 19-06175-22 22.5cm/9"
- 19-06175-24 24.5cm/9 3/4"



Straight

- 19-06178-16 16.0cm/6 1/4"
- 19-06178-18 18.5cm/7 1/4"



Curved

- 19-06179-16 16.0cm/6 1/4"
- 19-06179-18 18.5cm/7 1/4"





Straight  
19-06182-15  
15cm/6"

Curved  
19-06183-15  
15cm/6"

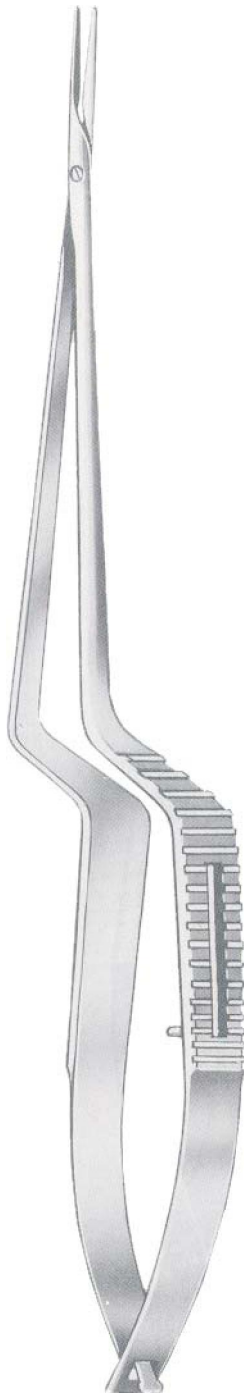
Straight  
19-06186-18  
18cm/7"

Curved  
19-06187-18  
18cm/7"

Straight  
19-06190-18  
18cm/7"

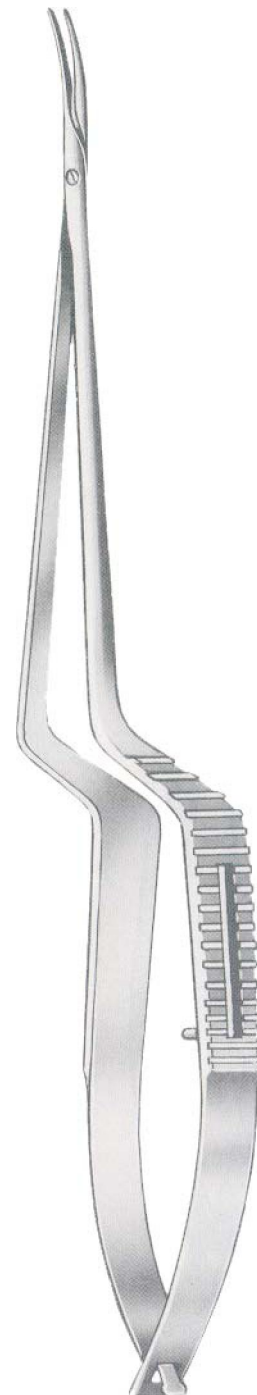


Straight



19-06194-18  
19-06194-22

Curved



19-06195-18  
19-06195-22

**Yasargil**  
18.0cm/7"  
22.5cm/8 3/4"



Straight  
19-06198-15  
15cm/6"



Curved  
19-06199-15  
15cm/6"



Straight  
19-06206-15  
15cm/6"



Curved  
19-06207-15  
15cm/6"



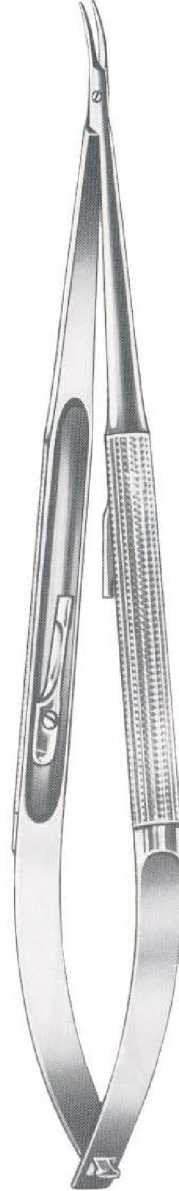
Straight  
 19-06210-18  
 18.5cm/7 1/4"



Curved  
 19-06211-18  
 18.5cm/7 1/4"



Straight  
 19-06214-18  
 18.5cm/7 1/4"



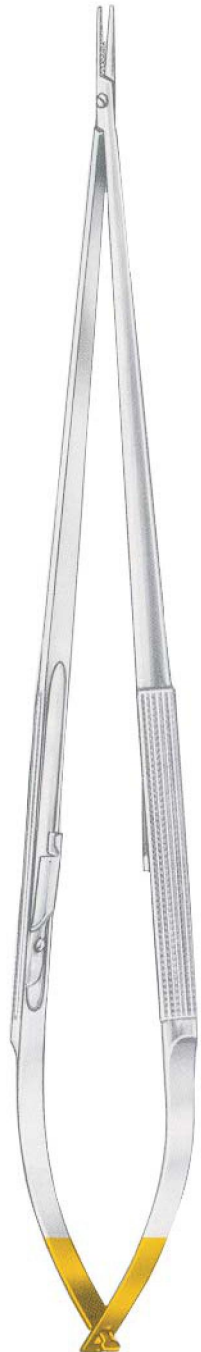
Curved  
 19-06215-18  
 18.5cm/7 1/4"



Straight  
 19-06218-23

Curved  
 19-06219-23

23cm/9"



3:1  
**PinsmedTC**



Straight



Curved

19-06222-18 18cm/7"  
 19-06222-21 21cm/8 ¼"  
 19-06222-23 23cm/9 ¼"

Withratchet

19-06223-18 18cm/7"  
 19-06223-21 21cm/8 ¼"  
 19-06223-23 23cm/9 ¼"

Withoutratchet



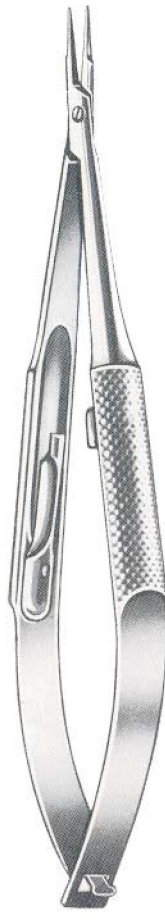
Straight  
19-06226-12  
12cm/4 3/4"



Curved  
19-06227-12  
12cm/4 3/4"



Angled  
19-06229-12  
12cm/4 3/4"



Straight  
19-06232-12  
12cm/4 3/4"



Curved  
19-06233-12  
12cm/4 3/4"



Angled  
19-06235-12  
12cm/4 3/4"





**Arruga**  
 14cm/5"



**Straight**  
 19-06238-14



**Curved**  
 19-06239-14



**Stevens**  
 19-06242-13 13cm/5"  
 19-06242-15 15cm/6"



**Kalt**  
 19-06246-14  
 14cm/5 1/2"



**Castroviejo-Kalt**  
 19-06248-13  
 13.5cm/5 1/4"



**Kalt-Arruga**  
 19-06250-14  
 14cm/5 1/2"





Straight  
19-06254-12



Curved  
19-06255-12



Straight  
19-06258-12



Curved  
19-06259-12

**Castroviejo**  
12cm/4 3/4"

**Castroviejo**  
12cm/4 3/4"



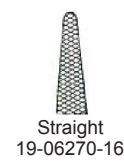
**Castroviejo**  
19-06262-13  
13cm/5"



**Boynton**  
19-06266-12  
12cm/4 3/4"



**Arruga**  
16cm/6 1/4"



Straight  
19-06270-16



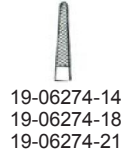
Curved  
19-06271-16



**Castroviejo**

14cm/5 1/2"  
 18cm/7"  
 21cm/8 1/4"

**PinsmedTC**



19-06274-14  
 19-06274-18  
 19-06274-21

**Smooth**



19-06278-14  
 19-06278-18  
 19-06278-21



19-06275-14  
 19-06275-18  
 19-06275-21



19-06279-14  
 19-06279-18  
 19-06279-21



**Kalt**  
 14cm/5 1/2"



19-06282-14



19-06284-14



**Barraquer**  
 19-06288-14  
 14cm/5 1/2"



**Castroviejo**  
 19-06292-13  
 13cm/5"



19-06296-18



19-06298-18

Smooth

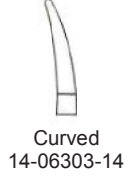


**Hepp-Schiedel**  
 18cm/7"

## PinsmedTC



**Arruga**  
14cm/5½"



**Jacobson**  
 19-06306-1818cm/7"  
 19-06306-2020cm/8"  
 19-06306-2323cm/8 ¾"



**Diethrich**

Straight		Curved
19-06310-16	16cm/6¼"	19-06311-16
19-06310-18	18cm/7"	19-06311-18
19-06310-20	20cm/8"	19-06311-20
19-06310-23	23cm/9"	19-06311-23
19-06310-25	25cm/10"	19-06311-25



19-06314-13



19-06315-13

Smooth



**Halsey**  
13cm/5"



19-06318-13

Smooth

**Webster**  
13cm/5"



**Derf**  
19-06322-12  
12cm/4¾"



**Derf**  
19-06324-12  
12.5cm/5"



**Collier**  
19-06326-12  
12.5cm/5"



**Hegar-Baumgartner**  
19-06330-14  
14cm/5½"



**Brown**  
19-06334-13 13cm/5"  
19-06334-18 18cm/7"



**New Orleans**  
19-06338-18  
18cm/7"



**Mayo-Hegar**

- |           |             |             |
|-----------|-------------|-------------|
| 13cm/5"   | 19-06342-13 |             |
| 14cm/5½"  | 19-06342-14 |             |
| 16cm/6¼"  | 19-06342-16 | 19-06343-16 |
| 18cm/7"   | 19-06342-18 | 19-06343-18 |
| 20cm/8"   | 19-06342-20 | 19-06343-20 |
| 24cm/9½"  | 19-06342-24 | 19-06343-24 |
| 26cm/10¼" | 19-06342-26 | 19-06343-26 |
| 30cm/12"  | 19-06342-30 | 19-06343-30 |



**Heaney**  
 19-06347-21  
 21cm/8¼"

DelicatePattern



**Mayo-Hegar**  
 19-06350-16 16cm/6 ¼"  
 19-06350-18 18cm/7"  
 19-06350-20 20cm/8"

HeavyPattern



**Hegar**  
 19-6354-16 16cm/6¼"  
 19-6354-18 18cm/7"  
 19-6354-20 20cm/8"





**M.G.H**  
 (Mass.-General-Hospital)  
 19-06358-17  
 17cm/6 ¾"



**Sarot**  
 19-06362-18 18.5cm/7 ¼"  
 19-06362-26 26.0cm/10 ¼"



**Finocchietto**  
 19-06365-27  
 27cm/10 ½"



**Masson**  
 19-06368-27  
 27cm/10 ½"



**Jameson**  
 19-06372-23  
 23.5cm/9 ¼"



**Wangensteen**  
 19-06376-27  
 27cm/10 ½"





**Crile-Wood**  
 19-06380-15  
 15cm/6"



**Crile-Murray**  
 19-06384-15  
 15cm/6"



**Adson**  
 19-06388-18  
 18cm/7"



**Ermold**  
 19-06392-17 17cm/6 ¾"  
 19-06392-20 20cm/8"

Needleholderswithscissors



**Baby-Olsen-Hegar**  
 11.5cm/4 ½"



**Smooth**  
 19-06396-11



**Olsen-Hegar**  
 19-06398-14 14cm/5 ½"  
 19-06398-18 18cm/7"



**Olsen-Hegar**  
 19-06400-17  
 17cm/6 ¾"



**Olsen-Hegar**  
 19-06404-14  
 14cm/5 1/2"



**Gillies**  
 19-06406-16  
 16cm/6 1/4"



**GilliesSlim**  
 19-06408-14  
 14cm/5 1/2"



**Crile**  
 19-06412-15  
 15cm/6"



**Axhausen**  
 19-06416-18  
 18.5cm/7 1/4"



**Lichtenberg**  
 19-06420-20  
 20cm/8"



**Toennis**  
 19-06424-18  
 18cm/7"



**Mathieu**



19-06428-14  
 19-06428-17  
 19-06428-20

14cm/5 1/2"  
 17cm/6 3/4"  
 20cm/8"



19-06430-14  
 19-06430-17  
 19-06430-20



**Mathieu**

19-06434-14 14cm/5 1/2"  
 19-06434-17 17cm/6 3/4"  
 19-06434-20 20cm/8"

Tworingsangled

*PinsmedTC*



**Neivert**  
 19-06438-13  
 13cm/5"



**Neivert**  
 19-06440-13  
 13cm/5"



**Webster**  
 19-06444-13  
 13cm/5"

Smooth



**Derf**  
 19-06448-12  
 12.5cm/5"



**NewOrleans**  
 19-06452-18  
 18cm/7"



**Bozemann**  
 19-06456-20 20cm/8"  
 19-06452-24 24cm/9 1/2"  
 19-06452-26 26cm/10 1/2"



**Mayo-Hegar**

**PinsmedTC**



- 19-06460-16
- 19-06460-18
- 19-06460-20
- 19-06460-24
- 19-06460-26
- 19-06460-30

- 19-06461-20
- 19-06461-24
- 19-06461-26

- 16cm/6¼"
- 18cm/7"
- 20cm/8"
- 24cm/9½"
- 26cm/10½"
- 30cm/12"



**Hegar-Baumgartner**  
 19-06464-14  
 14cm/5½"



**HeavyPattern**

- Mayo-Hegar**  
 19-06470-2020cm/8"  
 19-06470-2424cm/9 ½"



- DeBakey**  
 19-06474-18  
 19-06474-20  
 19-06474-23  
 19-06474-26  
 19-06474-31
- 18cm/7"
  - 20cm/8"
  - 23cm/9"
  - 26cm/10¼"
  - 31cm/12¼"



- DeBakey-Fine**  
 19-06476-18  
 19-06476-20  
 19-06476-23  
 19-06476-26  
 19-06476-31

## PinsmedTC



**Baby-Crile-Wood**  
 19-06480-15  
 15cm/6"

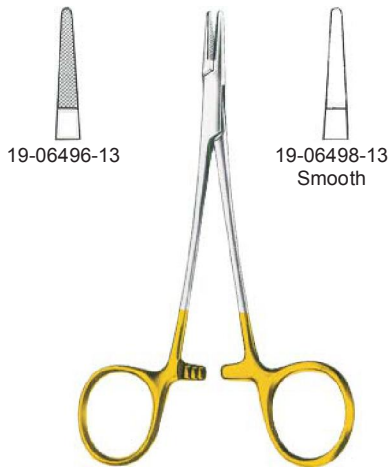


**Crile-Wood**  
 15cm/6"



**Crile-Wood**

	cm	in
19-06492-18	18	7"
19-06492-20	20	8"
19-06492-23	23	9"
19-06492-26	26	10¼"
19-06492-31	31	12¼"



**Halsey**  
 13cm/5"



**Converse**  
 19-06502-12  
 12.5cm/5"



**Kilner**  
 19-06506-13  
 13.5cm/5¼"



## PinsmedTC



**Hegar-Vascular**

- 19-06510-14 14cm/5½"
- 19-06510-18 18cm/7"
- 19-06510-20 20cm/8"
- 19-06510-23 23cm/9"



**Ryder**

- 19-06514-13
- 19-06514-15
- 19-06514-18
- 19-06514-20
- 19-06514-23
- 19-06514-26

**Micro-Ryder**

- 19-06516-13 13cm/5"
- 19-06516-15 15cm/6"
- 19-06516-18 18cm/7"
- 19-06516-20 20cm/8"
- 19-06516-23 23cm/9"
- 19-06516-26 26cm/10¼"



**(Swedish Pattern)**

- 19-06520-1515cm/6"
- 19-06520-1717cm/6¾"
- 19-06520-2020cm/8"



**Sarot**

- 19-06524-1818cm/7"
- 19-06524-26 26cm/10¼"

## PinsmedTC



**Stratte**  
 19-06528-23  
 23cm/9"



**Masson**  
 19-06532-27  
 27cm/10½"



**Wangensteen**  
 19-06534-27  
 27cm/10½"



**Finocchietto**  
 19-06537-20 20cm/8"  
 19-06537-27 27cm/10½"

## PinsmedTC



**Mathieu**

14cm/5½"	19-06540-14
17cm/6¾"	19-06540-17
20cm8"	19-06540-20
24cm/9½"	19-06540-24



**Mathieu**

19-06542-14
19-06542-17
19-06542-20
19-06542-24



**Mathieu-Ryder**

19-06544-17
19-06544-20



**Langenbeck**

16cm/6¼"	19-06548-16
18cm/7"	19-06548-18
20cm/8"	19-06548-20



**Langenbeck-Ryder**

19-06550-18
19-06550-20



**Lichtenberg**

19-06554-20
-------------



**Toennis**  
 19-06558-18  
 18cm/7"

## PinsmedTC



**Mathieu-Kocher**  
 19-06562-1414cm/5 1/2"  
 19-06562-1717cm/6 3/4"  
 19-06562-2020cm/8"



**Axhausen**  
 19-06566-18  
 18.5cm/7 1/4"



**Zweifel**  
 19-06570-2020cm/8"  
 19-06570-2323cm/9"

## PinsmedTC



19-06574-2020cm/8"  
 19-06574-2525cm/10"



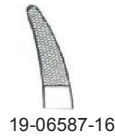
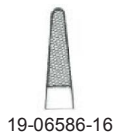
**HeavyPattern**  
**Mathieu**  
 19-06578-2020cm/8"  
 19-06578-2424cm/9 1/2"



**Metzenbaum**  
 19-06582-1717cm/6 3/4"  
 19-06582-2020cm/8"



**Arruga**  
 16cm/6 1/4"



**Boynton**  
 19-06590-12  
 12cm/4 3/4"



**Hosel**  
 19-06594-2020cm/8"  
 19-06594-2525cm/10"

## PinsmedTC



**Baby-Olsen-Hegar**  
 19-06598-11  
 11.5cm/4 1/2"



**Olsen-Hegar**  
 19-06600-14  
 14cm/5 1/2"



**Olsen-Hegar**  
 19-06602-17  
 17cm/6 3/4"



**Olsen-Hegar**  
 19-06604-18  
 18cm/7"

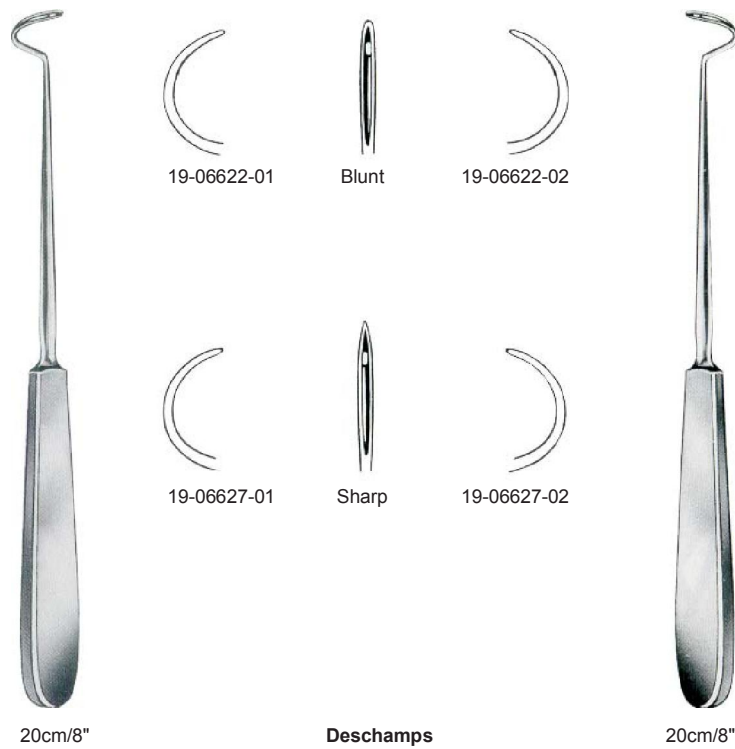
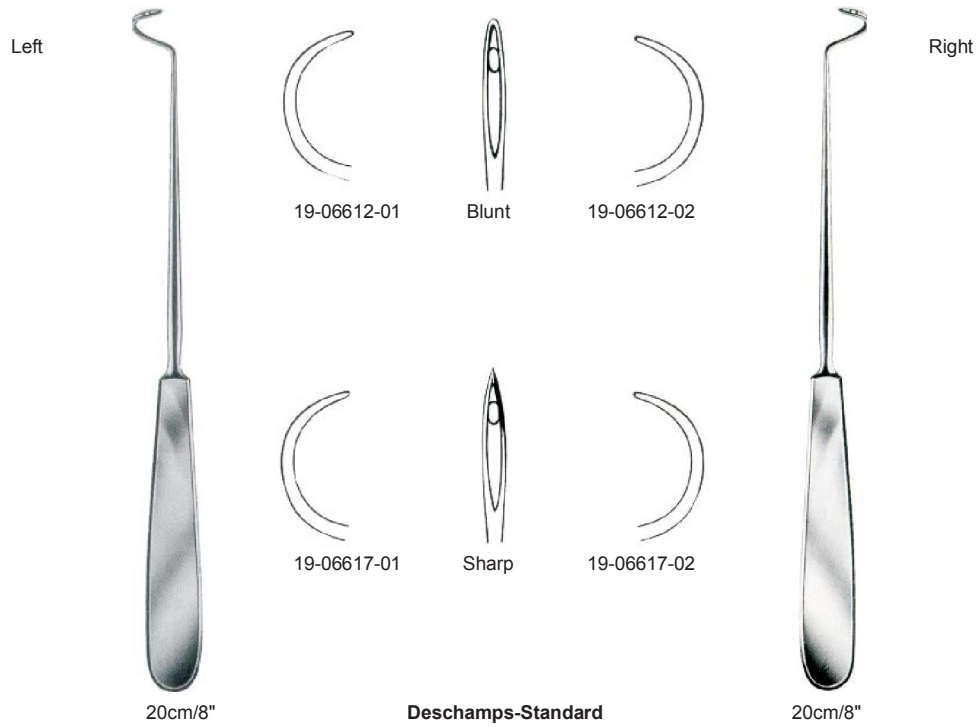


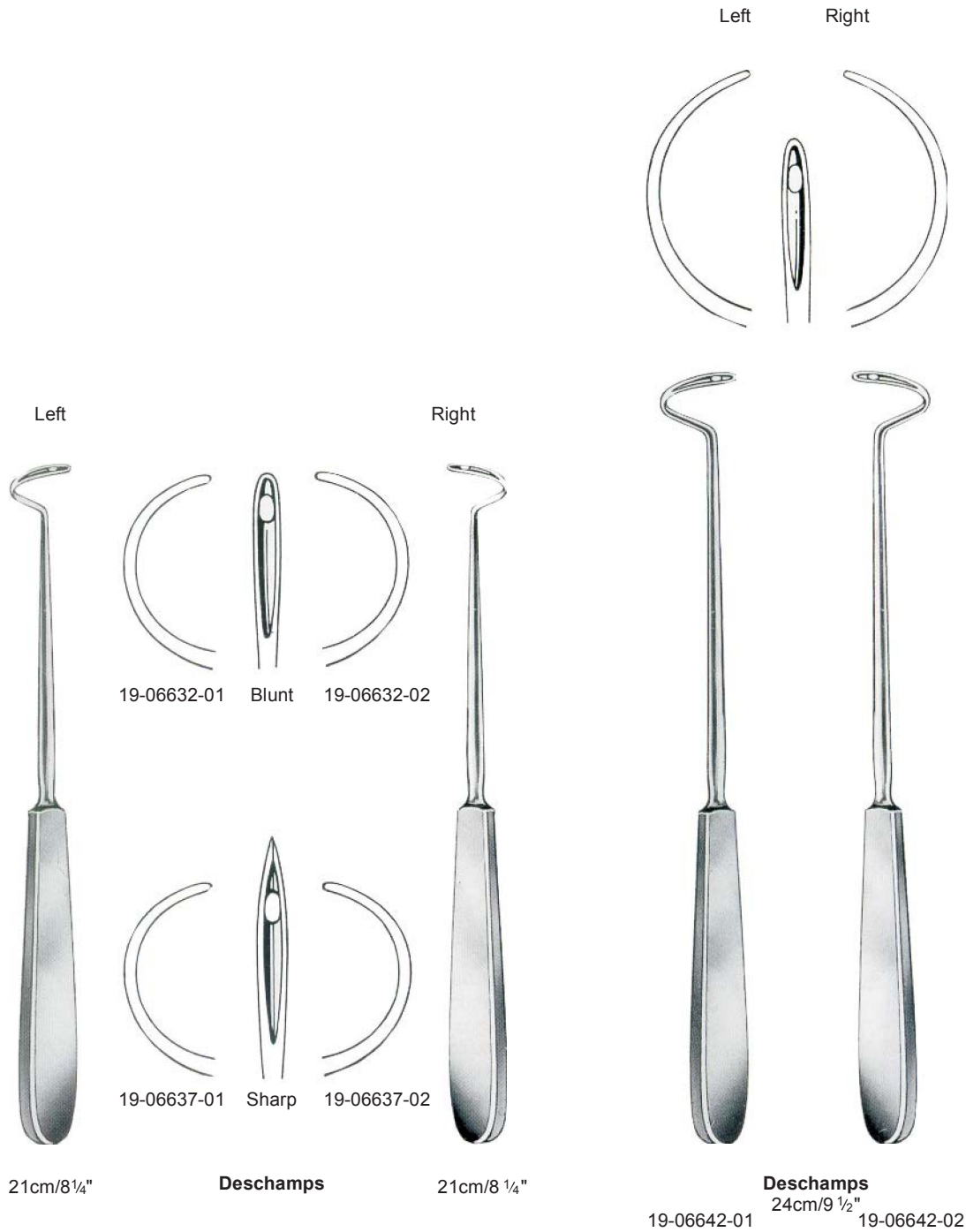
**Gillies-Slim**  
 19-06607-14  
 14.5cm/5 1/2"

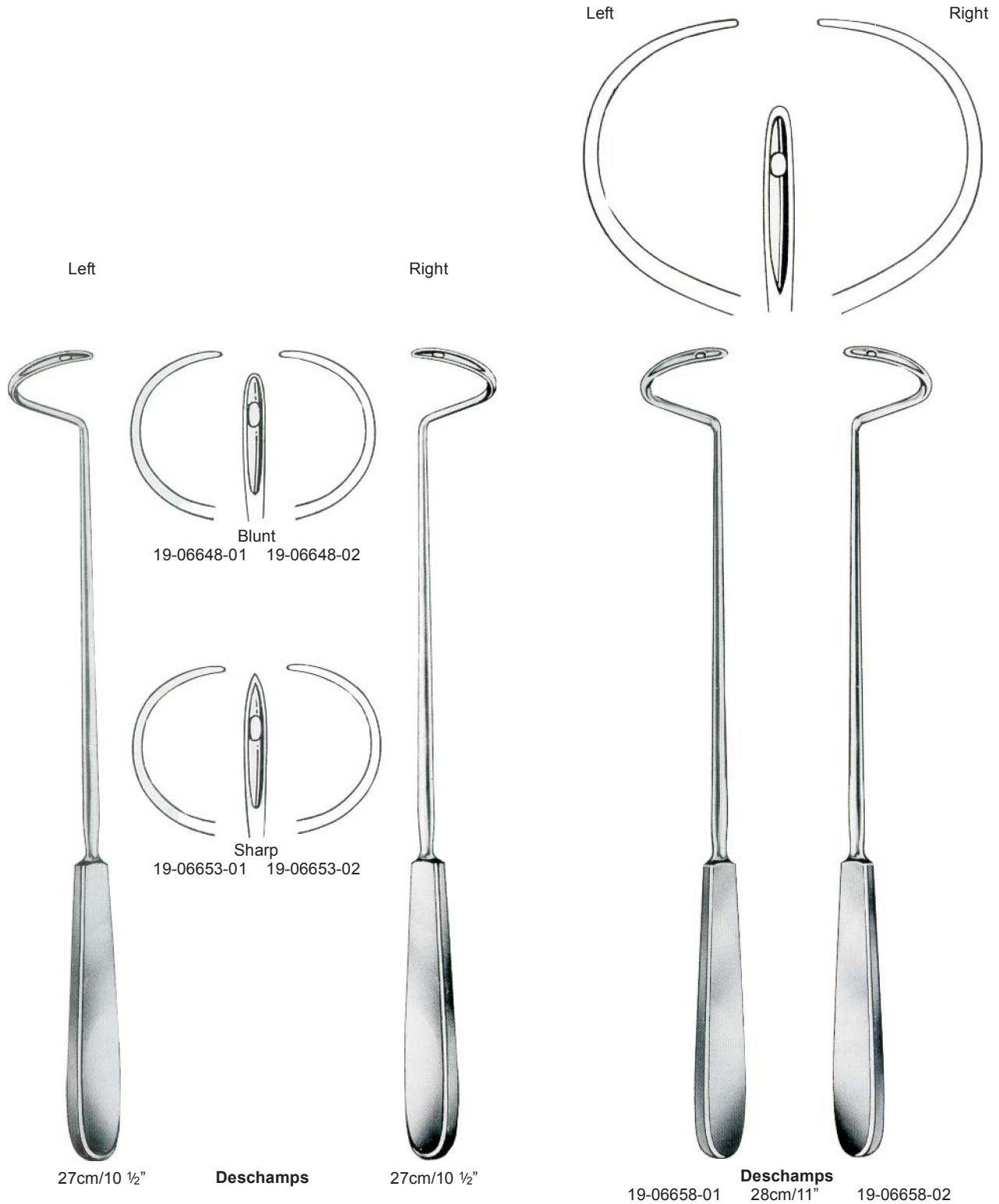


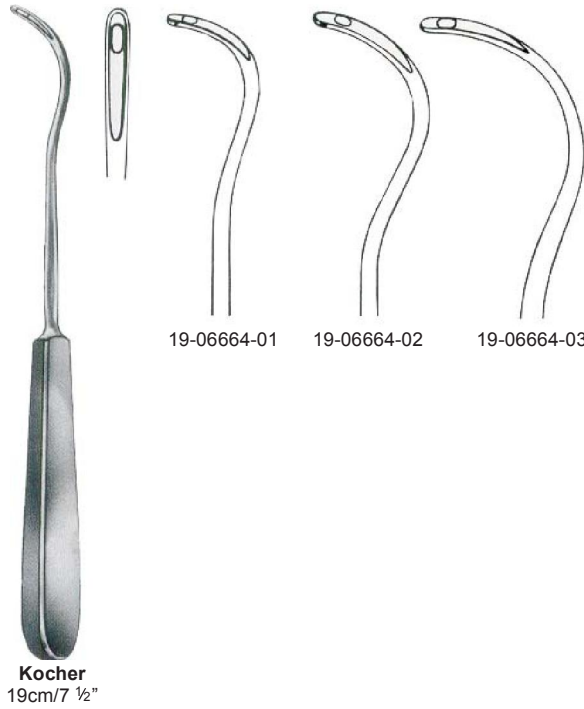
**Gillies**  
 19-06609-16  
 16cm/6 1/4"













Flexible

**Schmieden-Dick**  
 19-06690-32  
 32cm/12 1/2"



**Schmieden**  
 19-06694-21  
 21cm/8 1/4"



Flexible

19-06698-20  
 20cm/8"



**Cooper**  
 19-06702-19  
 19cm/7 1/2"



With 1 needle

**Young**

19-06705-21 21cm/8 1/4"  
 19-06707-25 25cm/10"



19-06705-01



19-06705-02



19-06705-03

Spare needle only



**Reverdin**  
 14cm/5 1/2"



Fig.1  
 19-06711-01



Fig.2  
 19-06711-02



Fig.3  
 19-06711-03



Fig.4  
 19-06711-04





**Reverdin**  
 19.5cm/7 3/4"



**Fig.1**  
 19-06715-01



**Fig.2**  
 19-06715-02



**Fig.3**  
 19-06715-03



**Fig.4**  
 19-06715-04



**Reverdin**  
 22.5cm/8 3/4"



**Fig.1**  
 19-06717-01



**Fig.2**  
 19-06717-02



**Fig.3**  
 19-06717-03



**Fig.4**  
 19-06717-04



**Brunner**  
19-06720-25  
25cm/10"



**Payr**  
19-06724-22  
22cm/8 3/4"



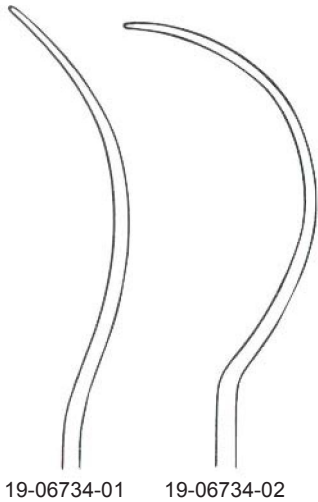
**Payr**  
19-06726-22  
22cm/8 3/4"



**Brunner**  
19-06730-24  
24.5cm/9 3/4"



**Brunner**  
30cm/12"



19-06734-01 19-06734-02



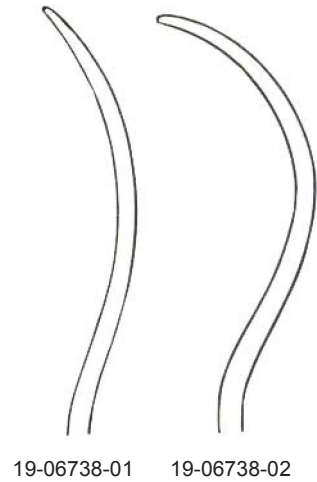
19-06734-03



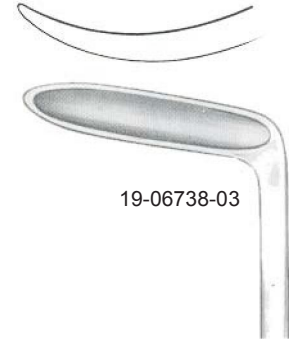
19-06734-04



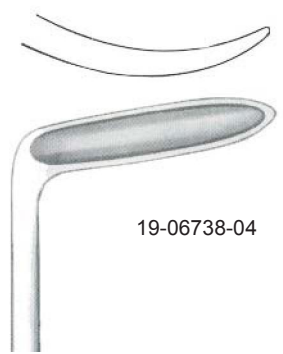
**Brunner**  
30cm/12"



19-06738-01 19-06738-02



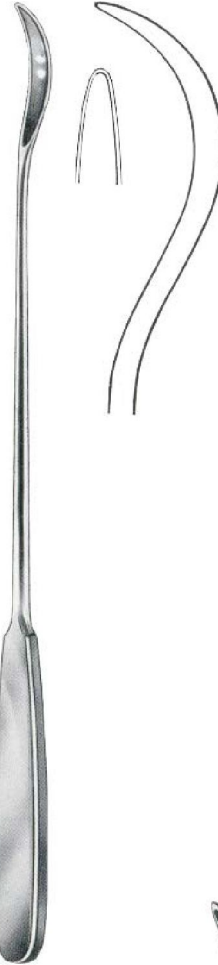
19-06738-03



19-06738-04



**Kirschner**  
 19-06742-25  
 25.5cm/10"



**Brunner-Ferrozell**  
 19-06750-18 18cm/7"  
 19-06750-27 27cm/10 1/2"



**Schmieden-Payr**  
 19-06754-19  
 19cm/7 1/2"

19-06746-28  
 28cm/11"



19cm/7 1/2"  
**Schmieden**  
 19-06756-19



**Konig**  
 19-06760-19  
 19.5cm/7 3/4"



**Konig**  
 19-06762-19  
 19.5cm/7 3/4"



**Konig**  
 19-06764-20  
 20cm/8"



**Wien**  
 19-06768-23  
 23.5cm/9 1/4"



**Bozemann**  
 19-06772-21  
 21cm/8 1/4"



19-06776-23  
 23cm/9"



**Michéal**  
 19-06780-12  
 12cm/4 3/4"



**Michéal**  
 19-06782-12  
 12cm/4 3/4"



**Wachenfeldt**  
 19-06786-12  
 12cm/4 3/4"



**Wachenfeldt**  
 19-06788-12  
 12cm/4 3/4"



**Wachenfeldt**  
 19-06790-13  
 13cm/5"



**Wachenfeldt**  
 19-06792-13  
 13cm/5"



**Michel**  
 19-06796-12  
 12cm/4 3/4"



**MichelModif**  
 19-06798-12  
 12.5cm/5"



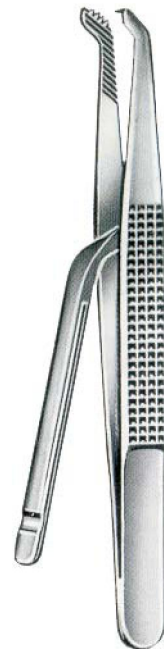
**Collin**  
 19-06802-13  
 13cm/5"



**Richter-Heath**  
 19-06806-14  
 14cm/5 1/2"



**Child**  
 19-06810-17  
 17cm/6 3/4"



**Child**  
 19-06812-17  
 17cm/6 3/4"





**Hopkins**  
20-06816-20  
20cm/8"



**Esmarch**  
20-06820-18  
18cm/7"



**Reiner**  
20-06824-18  
18.5cm/7 ¼"

PlasterSaw



**Engel**  
20-06828-14  
14cm/5½"



**Henning**  
20-06832-28  
28cm/11"



**Beeson**  
20-06836-30  
30cm/12"



**Haglund-Stille**  
20-06840-28  
28cm/11"



**Mod.USA**  
20-06844-23  
23cm/9"



**Wolff**  
20-06848-1818cm/7"  
20-06848-2424cm/9 1/2"



**Stille**  
20-06852-24  
24cm/9 1/2"



**Stille**  
20-06856-2323cm/9"  
20-06856-2626cm/10 1/4"  
20-06856-3737cm/14 1/2"



**Partsch**  
 mm  
 02 21-06860-02  
 03 21-06860-03  
 04 21-06860-04  
 05 21-06860-05  
 06 21-06860-06  
 07 21-06860-07  
 08 21-06860-08  
 13.5cm/5 1/4"

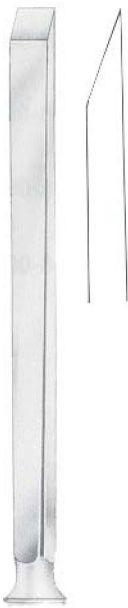


**Partsch**  
 21-06862-02  
 21-06862-03  
 21-06862-04  
 21-06862-05  
 21-06862-06  
 21-06862-07  
 21-06862-08  
 17cm/6 3/4"  
 21-06866-02  
 21-06866-03  
 21-06866-04  
 21-06866-05  
 21-06866-06  
 21-06866-07  
 21-06866-08  
 13.5cm/5 1/4"  
 21-06868-04  
 21-06868-06  
 21-06868-08  
 21-06868-10  
 21-06868-12  
 21-06868-14  
 21-06868-16  
 17cm/6 3/4"



Width

mm  
 04 21-06870-04 21-06872-04 21-06874-04  
 06 21-06870-06 21-06872-06 21-06874-06  
 08 21-06870-08 21-06872-08 21-06874-08  
 10 21-06870-10 21-06872-10 21-06874-10  
 12 21-06870-12 21-06872-12 21-06874-12  
 14 21-06870-14 21-06872-14 21-06874-14  
 16 21-06870-16 21-06872-16 21-06874-16  
 13.5cm/5 1/4"



**Mod.USA**  
 mm  
 06 21-06878-06  
 12 21-06878-12  
 18 21-06878-18



21-06880-06  
 21-06880-12  
 21-06880-18  
 16cm/6 1/4"



21-06882-06  
 21-06882-12  
 21-06882-18



16cm/6 1/4"

21-06886-03  
 3mm  
 21-06886-05  
 5mm  
 21-06886-07  
 7mm  
 21-06886-09  
 9mm



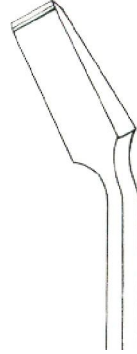
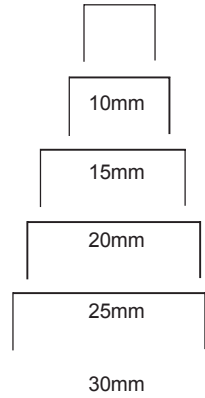
21-06890-02  
 2.5mm

21-06890-03  
 3.5mm

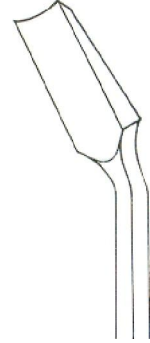
**Passow**  
 12cm/4 3/4"



**Lexer**  
27.5cm/10 3/4"



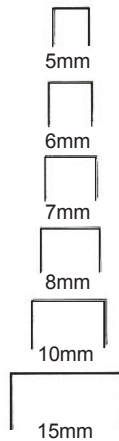
21-06893-10  
21-06893-15  
21-06893-20  
21-06893-25  
21-06893-30



21-06895-10  
21-06895-15  
21-06895-20  
21-06895-25  
21-06895-30



**Cloward**  
24cm/9 1/2"



21-06898-05  
21-06898-06  
21-06898-07  
21-06898-08  
21-06898-10  
21-06898-15



21-06900-05  
21-06900-06  
21-06900-07  
21-06900-08  
21-06900-10  
21-06900-15



**Alexander**  
18cm/7"

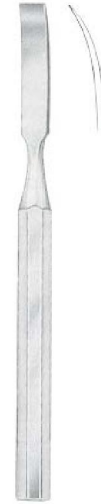
	mm	
21-06904-04	04	21-06906-04
21-06904-06	06	21-06906-06
21-06904-08	08	21-06906-08
21-06904-10	10	21-06906-10
21-06904-12	12	21-06906-12
21-06904-14	14	21-06906-14



**Hoke**

14cm/5 1/2"

	mm	
21-06910-02	2	21-06911-02
21-06910-03	3	21-06911-03
21-06910-04	4	21-06911-04
21-06910-05	5	21-06911-05
21-06910-06	6	21-06911-06
21-06910-07	7	21-06911-07
21-06910-08	8	21-06911-08



**Smith-Petersen**  
20cm/8"



mm				
06	21-06914-06	21-06915-06	21-06918-06	21-06919-06
09	21-06914-09	21-06915-09	21-06918-09	21-06919-09
13	21-06914-13	21-06915-13		
14			21-06918-14	21-06919-14
16	21-06914-16	21-06915-16	21-06918-16	21-06919-16
19	21-06914-19	21-06915-19	21-06918-19	21-06919-19
25	21-06914-25	21-06915-25	21-06918-25	21-06919-25
32	21-06914-32	21-06915-32	21-06918-32	21-06919-32





**Lambotte**

	mm
21-06922-04	04
21-06922-06	06
21-06922-08	08
21-06922-10	10
21-06922-13	13
21-06922-16	16
21-06922-18	18
21-06922-20	20
21-06922-25	25
21-06922-30	30
21-06922-38	38
21-06922-44	44
21-06922-50	50

24cm/9 1/2"

Curved



21-06923-04	04
21-06923-06	06
21-06923-08	08
21-06923-10	10
21-06923-13	13
21-06923-16	16
21-06923-18	18
21-06923-20	20
21-06923-25	25
21-06923-30	30
21-06923-38	38
21-06923-44	44
21-06923-50	50

23cm/9"



**Mini-Lambotte**

	mm	
21-06926-02	02	21-06927-02
21-06926-03	03	21-06927-03
21-06926-04	04	21-06927-04
21-06926-06	06	21-06927-06
21-06926-08	08	21-06927-08
21-06926-10	10	21-06927-10
21-06926-12	12	21-06927-12
21-06926-15	15	21-06927-15
12.5cm/5"		17cm/6 3/4"



**Mini-Lexer**

	mm	
21-06930-04	04	21-06932-04
21-06930-06	06	21-06932-06
21-06930-08	08	21-06932-08
21-06930-10	10	21-06932-10
21-06930-12	12	21-06932-12

18cm/7"



**Lexer**

	mm	
21-06936-05	05	21-06938-05
21-06936-07	07	21-06938-07
21-06936-10	10	21-06938-10
21-06936-15	15	21-06938-15
21-06936-20	20	21-06938-20
21-06936-25	25	21-06938-25
21-06936-30	30	21-06938-30

22cm/8 3/4"







**Chisel**  
21-06942-20  
24.5cm/9  $\frac{3}{4}$ "  
20mm



**Chisel-Curved**  
21-06943-20  
26.5cm/10  $\frac{1}{2}$ "  
20mm

Gougeforthe  
removingof  
brokenscrews



21-06944-22  
22cm/8  $\frac{3}{4}$ "



Width

mm	21-06950-06	21-06952-06	21-06953-06	21-06956-06	21-06957-06
06	21-06950-06	21-06952-06	21-06953-06	21-06956-06	21-06957-06
08	21-06950-08	21-06952-08	21-06953-08	21-06956-08	21-06957-08
10	21-06950-10	21-06952-10	21-06953-10	21-06956-10	21-06957-10
12	21-06950-12	21-06952-12	21-06953-12	21-06956-12	21-06957-12
15	21-06950-15	21-06952-15	21-06953-15	21-06956-15	21-06957-15
20	21-06950-20	21-06952-20	21-06953-20	21-06956-20	21-06957-20
25	21-06950-25	21-06952-25	21-06953-25	21-06956-25	21-06957-25
30	21-06950-30	21-06952-30	21-06953-30	21-06956-30	21-06957-30

**Hibbs**  
24cm/9 1/2"

mm	21-06960-06	21-06961-06	21-06964-06	21-06966-06	21-06967-06
06	21-06960-06	21-06961-06	21-06964-06	21-06966-06	21-06967-06
09	21-06960-09	21-06961-09	21-06964-09	21-06966-09	21-06967-09
13	21-06960-13	21-06961-13	21-06964-13	21-06966-13	21-06967-13
16	21-06960-16	21-06961-16	21-06964-16	21-06966-16	21-06967-16
19	21-06960-19	21-06961-19	21-06964-19	21-06966-19	21-06967-19
25	21-06960-25	21-06961-25	21-06964-25	21-06966-25	21-06967-25
32	21-06960-32	21-06961-32	21-06964-32	21-06966-32	21-06967-32



mm **Lexer**  
 05 21-06970-05  
 10 21-06970-10  
 15 21-06970-15  
 28cm/11"



**Lexer**  
 21-06972-05  
 21-06972-10  
 21-06972-15  
 25cm/10"



**Lexer**  
 21-06973-05  
 21-06973-10  
 21-06973-15  
 25cm/10"



21-06976-01



21-06977-02



21-06977-03

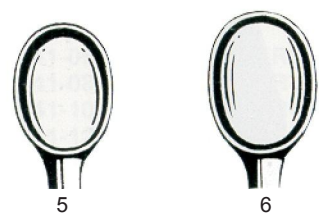


**Cobb**  
 28cm/11"

21-06977-04



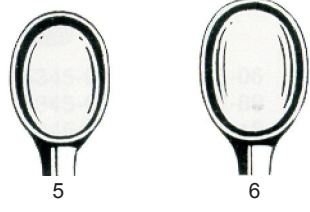
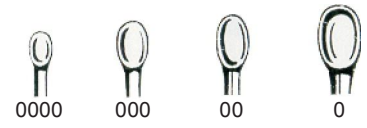
**Volkmann**  
17cm/6 3/4"



- Fig.  
 0000 21-06980-40  
 000 21-06980-30  
 00 21-06980-20  
 0 21-06980-10  
 1 21-06980-01  
 2 21-06980-02  
 3 21-06980-03  
 4 21-06980-04  
 5 21-06980-05  
 6 21-06980-06



**Volkmann**  
17cm/6 3/4"



- Fig.  
 0000 21-06984-40  
 000 21-06984-30  
 00 21-06984-20  
 0 21-06984-10  
 1 21-06984-01  
 2 21-06984-02  
 3 21-06984-03  
 4 21-06984-04  
 5 21-06984-05  
 6 21-06984-06

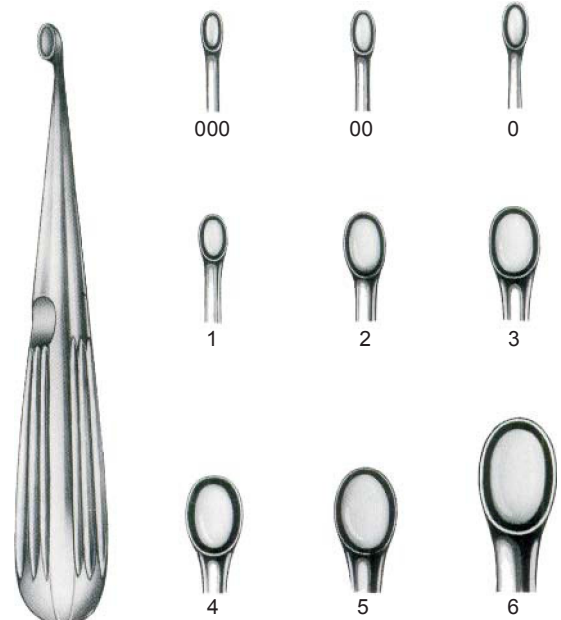


Fig.	A	B	C	D
000	21-06988-30	21-06990-30	21-06991-30	21-06993-30
00	21-06988-20	21-06990-20	21-06991-20	21-06993-20
0	21-06988-10	21-06990-10	21-06991-10	21-06993-10
1	21-06988-01	21-06990-01	21-06991-01	21-06993-01
2	21-06988-02	21-06990-02	21-06991-02	21-06993-02
3	21-06988-03	21-06990-03	21-06991-03	21-06993-03
4	21-06988-04	21-06990-04	21-06991-04	21-06993-04
5	21-06988-05	21-06990-05	21-06991-05	21-06993-05
6	21-06988-06	21-06990-06	21-06991-06	21-06993-06



**Bruns**  
17cm/6 3/4"

Bruns	Fig.	Spratt
21-06996-30	000	21-06998-30
21-06996-20	00	21-06998-20
21-06996-10	0	21-06998-10
21-06996-01	1	21-06998-01
21-06996-02	2	21-06998-02
21-06996-03	3	21-06998-03
21-06996-04	4	21-06998-04
21-06996-05	5	21-06998-05
21-06996-06	6	21-06998-06



**Spratt**  
16cm/6 1/4"



**Swedish pattern**

mm	Round	Oval
2	21-07002-02	21-07004-02
3	21-07002-03	21-07004-03
4	21-07002-04	21-07004-04
5	21-07002-05	21-07004-05
6	21-07002-06	21-07004-06
7	21-07002-07	21-07004-07
8	21-07002-08	21-07004-08
10	21-07002-10	21-07004-10
12	21-07002-12	21-07004-12
14	21-07002-14	21-07004-14
	17cm/6 3/4"	22cm/8 1/2"





**Schede**  
17cm/6 3/4"

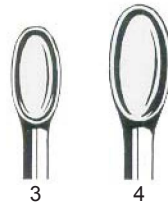
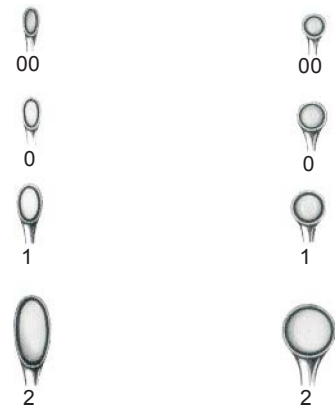


Fig.	
000	21-07008-30
00	21-07008-20
0	21-07008-10
1	21-07008-01
2	21-07008-02
3	21-07008-03
4	21-07008-04



**Williger**  
17.5cm/7"



Straight,Oval

21-07012-20
21-07012-10
21-07012-01
21-07012-02

Straight

Fig.	
00	21-07014-20
0	21-07014-10
1	21-07014-01
2	21-07014-02



21-07017-01

**Uffenorde**  
17cm/6 3/4"



21-07017-02



Fig.0  
21-07018-10



Fig.1  
21-07020-01



Fig.4  
21-07020-04



Fig.0000  
21-07022-40



Fig.00  
21-07024-20



Fig.1  
21-07018-01



Fig.2  
21-07020-02



Fig.5  
21-07020-05



Fig.000  
21-07022-30



Fig.0  
21-07024-10



Fig.2  
21-07018-02



Fig.3  
21-07020-03



Fig.6  
21-07020-06



Fig.00  
21-07022-20



Fig.1  
21-07024-01



Fig.3  
21-07018-03



Simon  
24cm/9 1/2"



Fig.0  
21-07022-10



Fig.2  
21-07024-02



Volkman  
27cm/10 1/2"



Simon  
24cm/9 1/2"



Daubenspeck  
20cm/8"

Flexible





	Volkman		Volkman
Length	Oval/Oval		Oval/Round
cm	in		
13	5"	21-07038-13	21-07040-13
14	5½"	21-07038-14	
16	6¼"		21-07040-16
17	6¾"	21-07038-17	
20	8"	21-07038-20	21-07040-20



**Martini**  
13.5cm/5"



**Jansen**  
21-07046-15  
15cm/6"



**Jansen**  
21-07050-16  
16cm/6 ¼"



**Williger**  
13.5cm/5"



**Jacobson**  
21-07058-13  
13cm/5"



**Janson**  
21-07062-15  
15cm/6"



**Barth**  
21-07064-18  
18cm/7"



21-07066-21  
21cm/8 1/4"



**Epstein**



**Spinal**



**Spinal**

Fig.  
000  
00  
0  
1  
2  
3  
4  
5  
6

21-07069-30	21-07072-30	21-07074-30
21-07069-20	21-07072-20	21-07074-20
21-07069-10	21-07072-10	21-07074-10
21-07069-01	21-07072-01	21-07074-01
21-07069-02	21-07072-02	21-07074-02
21-07069-03	21-07072-03	21-07074-03
21-07069-04	21-07072-04	21-07074-04
21-07069-05	21-07072-05	21-07074-05
21-07069-06	21-07072-06	21-07074-06
20cm/8"	20cm/8"	20cm/8"



**Putti**  
21-07078-30  
30cm/12"



**Putti**  
21-07080-27  
27cm/10 1/2"



21-07084-25  
25cm/10"



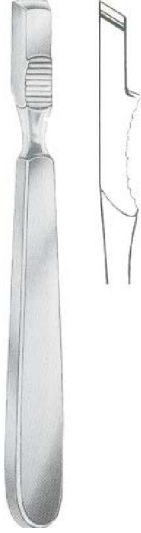
21-07088-24  
24cm/9 1/2"



21-07092-22  
22cm/8 3/4"







**Farabeuf**  
21-07096-15  
15cm/6"



**Farabeuf**  
21-07098-15  
15cm/6"



**Farabeuf-Collin**  
21-07100-15  
15.5cm/6"  
11mm



**Farabeuf-Collin**  
21-07102-15  
15.5cm/6"  
11mm



**Farabeuf**  
21-07104-19  
19cm/7 1/2"  
13mm



**Sedillot**  
21-07108-18  
18cm/7"  
18mm



**Sedillot**  
21-07110-21  
21cm/8 1/4"  
15mm



**Langenbeck**  
21-07114-19  
19cm/7 1/2"



**Langenbeck**  
21-07116-18  
18cm/7"



**Lambotte**  
21cm/8 1/4"

Width

	mm
21-07120-05	05
21-07120-10	10
21-07120-15	15
21-07120-20	20
21-07120-25	25



**Schneider**  
21-07124-17  
13mm  
17.5cm/7"



**Schneider-Sauerbruch**  
21-07126-19  
13mm  
19cm/7 1/2"



**Alexander**  
21-07130-20  
20cm/8"



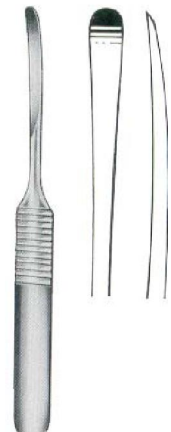
**Jansen**  
21-07134-16  
15mm  
16.5cm/6 1/2"



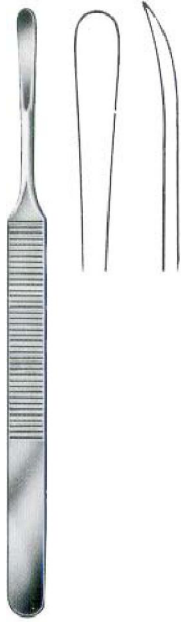
**Seldin**  
21-07138-19  
19cm/7 1/2"



**Davidson-Alexander**  
21-07142-29  
29cm/11 1/2"



**Williger**  
21-07146-29  
13cm/5"



**König**  
21-07150-15  
15.5cm/6"  
5mm



**Williger**  
21-07154-16  
16cm/6 ¼"



**Adson**  
17cm/6 ¾"



21-07158-01



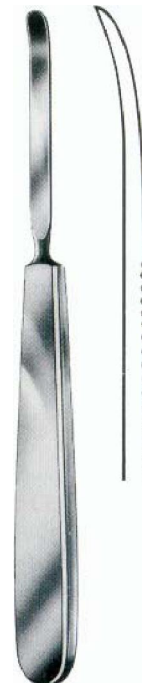
21-07158-02



21-07158-03



21-07158-04



21-07162-06 17cm/6 ¾"  
6mm



21-07162-08  
8mm



**Overholt**  
21-07166-29  
29.5cm/11 1/2"



**Overholt**  
21-07168-29  
29.5cm/11 1/2"



**Overholt**  
21-07170-28  
28.5cm/11 1/4"



**Hyllin**  
21-07174-03  
14.5cm/5 3/4"



21-07174-01



21-07174-02



21-07174-03



**Matson**  
21-07178-22  
22cm/8 3/4"



**Semb**

21-07182-01  
19.5cm/7 1/2"  
12mm

21-07182-02  
19.5cm/7 1/2"  
12mm

21-07182-03  
19.5cm/7 1/2"  
12mm

21-07182-04  
22cm/8 3/4"  
13mm

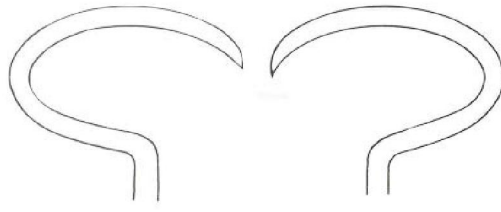
21-07182-05  
21.5cm/8 1/2"  
13mm

21-07182-06  
22cm/8 1/2"  
15mm

21-07182-07  
22cm/8 1/2"  
15mm

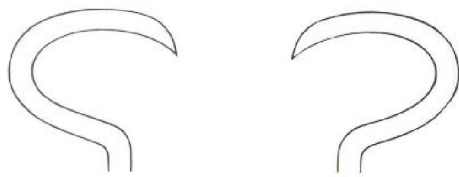


**Doyen**  
17cm/6 3/4"



21-07186-01

21-07186-02



21-07188-01

21-07188-02



**Doyen**  
24cm/9 1/2"



**Doyen**  
24cm/9 1/2" 21-07190-02



21-07194-04  
4mm



21-07194-06  
6mm



21-07194-08  
8mm



**Cobb**  
24cm/9 1/2"



21-07194-10  
10mm



21-07194-13  
13mm



21-07194-19  
19mm



21-07194-25  
25mm





21-07198-01  
19cm/7 1/2"  
6mm



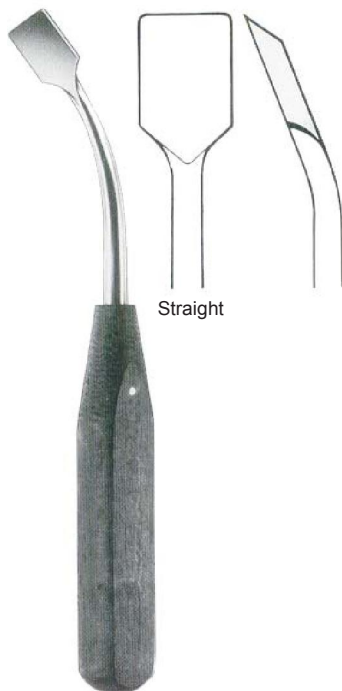
21-07199-02  
18.5cm/7 1/4"  
3mm



21-07201-03  
18.5cm/7 1/4"  
6mm



21-07203-04  
18.5cm/7 1/4"  
6mm



21-07206-05  
18.5cm/7 1/4"  
13mm



21-07207-06  
19.5cm/7 3/4"  
14mm



21-07209-07  
18.5cm/7 1/4"  
14mm



21-07211-08  
20cm/8"  
20mm



21-07214-20  
27.5cm/10 3/4"  
20mm

**Wagner**  
8mm 21-07218-08 33cm/13"  
17mm 21-07218-17 33cm/13"

**Cobb**  
10mm 21-07222-10 25cm/10"  
13mm 21-07222-13 25cm/10"  
19mm 21-07222-19 25cm/10"  
25mm 21-07222-25 25cm/10"

**Cobb**  
10mm 21-07224-10 28cm/11"  
13mm 21-07224-13 28cm/11"  
19mm 21-07224-19 28cm/11"



**Hoerl**

21-07228-07  
16cm/6 ¼"  
7mm

21-07228-15  
18.5cm/7 ¼"  
15mm

21-07228-20  
19cm/7 ½"  
20mm



**Yankauer**  
21-07232-18  
18cm/7"



**Langenbeck**  
21-07236-20  
20cm/8"  
8mm



**Langenbeck**  
21-07238-20  
20cm/8"  
10mm



**Langenbeck**  
21-07240-23  
23cm/9"  
11mm



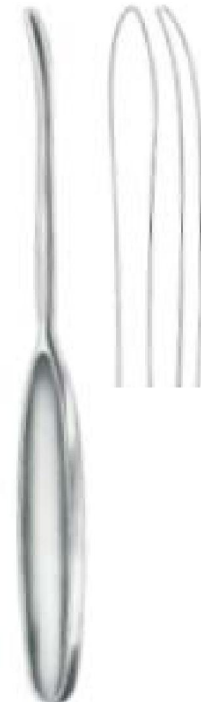
**Mass.Gen.Hosp.**  
21-07244-15  
15cm/6"



**Williger**  
21-07248-17  
17cm/6 ¾"  
5.5mm



**Williger**  
21-07250-16  
16cm/6 ¼"



**Quervain**  
21-07254-20  
20cm/8"





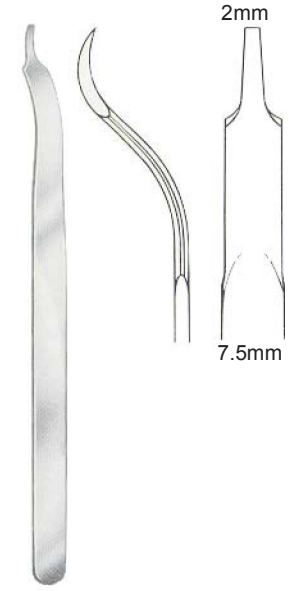
21-07288-14  
14cm/5 1/2"  
2.8mm



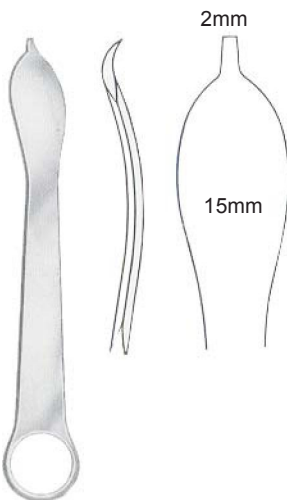
21-07288-15  
15cm/6"  
5mm



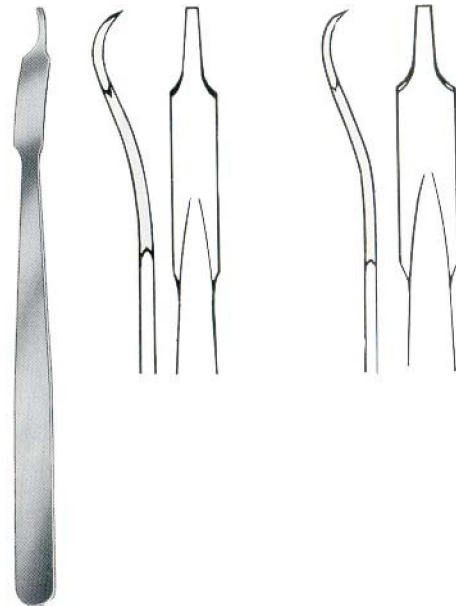
21-07290-15  
15cm/6"  
7mm



**Buck-Gramcko**  
21-07292-15  
15cm/6"

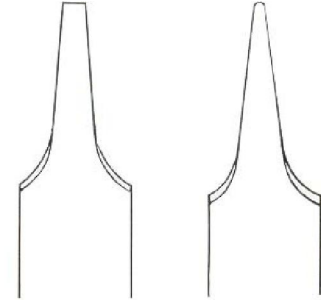


21-07296-12  
12.5cm/5"



**Mini-Hohmann** 21-07300-06  
16cm/6 1/4" 6mm

21-07302-08  
8mm



21-07306-17  
17mm

21-07308-17  
17mm



21-07304-26  
26.5cm/10 1/2"  
24mm



**Lange-Hohmann**  
21-07305-26  
26cm/10 1/4"  
22mm



**Hohmann**  
21-07308-22  
22cm/8 3/4"  
8mm



**Hohmann**  
21-07308-24  
24cm/9 1/2"  
14mm





**Hohmann**  
21-07308-26  
26cm/10 1/4"  
22mm

**Hohmann**  
21-07308-28  
28cm/11"  
33mm

**Hohmann**  
21-07310-24  
24cm/9 1/2"  
43mm

**Hohmann**  
21-07312-24  
24.5cm/9 3/4"  
43mm

**Hohmann**  
21-07314-24  
24cm/9 1/2"  
70mm

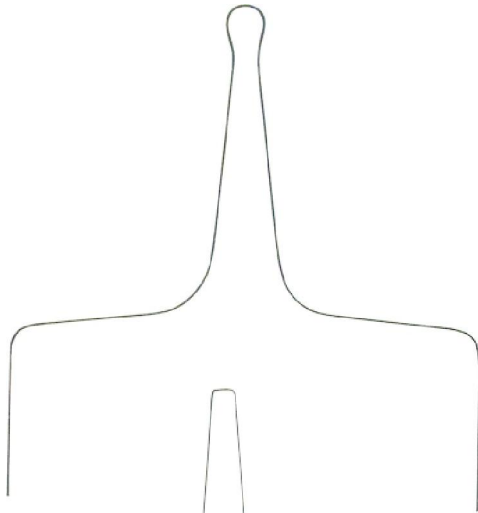
**Hohmann**  
21-07316-22  
22cm/8 3/4"  
18mm



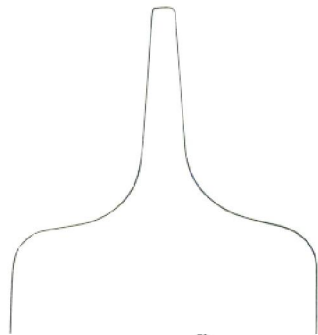
	<b>Lange-Hohmannmodif</b>		<b>Hohmann-Aldinger</b>	
30mm	21-07316-26	26.5cm/10 1/2"	21-07318-27	
33mm	21-07316-29	29.0cm/11 1/2"	27cm/10 1/2"	

**Schumacher**  
(Wagner)  
21-07318-34  
34.5cm/13 1/2"

**Schumacher**  
21-07320-29  
29cm/11 1/2"



21-07322-25  
25.5cm/10"  
65mm



21-07322-24  
24cm/9"  
42mm



**Verbrugge-Muller**



**Lane-Trethowan**  
21-07324-21  
21.5cm/8 1/2"



**Lane**  
21-07328-25  
25.5cm/10"



**Bristow**  
21-07332-23  
23cm/9"



**Murphy-Lane**  
21-07336-32  
32cm/12 ½"



**Chandler**

Length	Width	
18cm	13mm	21-07340-13
20cm	19mm	21-07340-19
23cm	25mm	21-07340-23
25cm	30mm	21-07340-30



**Blount**  
21-07344-26  
26cm/10 ¼"



**Blount**  
21-07346-26  
26cm/10 ¼"



**Bennett** 21-07350-44 44mm  
21-07350-64 64mm



**Smillie**  
14cm/5 1/2"

21-07354-01  
32x19mm

21-07354-02  
48x19mm

21-07354-03  
57x19mm



21-07356-04  
52x13mm



21-07358-05  
12x13mm

Spinal retractors



21-07362-01  
75x30mm

21-07362-02  
100x30mm

**Taylor**  
17cm/6 1/2"

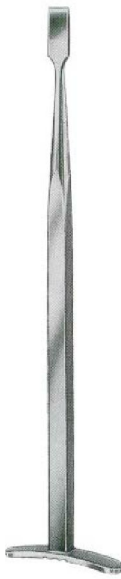


21-07366-21  
21.5cm/8 1/2"

Meniscus retractors



**Blount**  
21-07370-17  
17.5cm/7"



**Smillie**  
21-07374-17  
17cm/6 3/4"



**Smillie**  
21-07376-17  
17cm/6 3/4"



**Smillie**  
21-07378-17  
17cm/6 3/4"



**Salenius**  
21-07382-22  
22cm/8 3/4"



**Salenius**  
21-07384-22  
22cm/8 3/4"



21-07388-17  
17.5cm/7"



**Neff**  
21-07392-21  
21.5cm/8 1/2"



**Canad-Modell**  
21-07396-01 20cm/8"

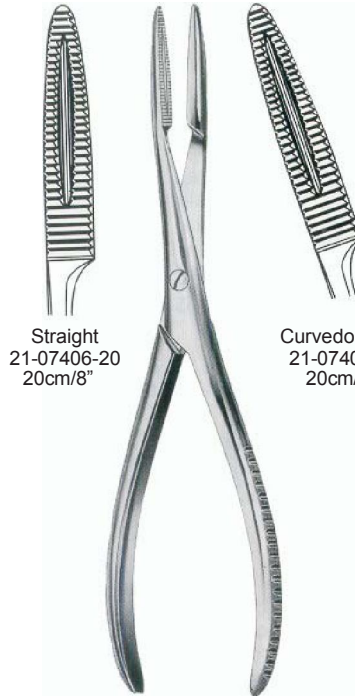


21-07396-02



**Bircher**  
21-07402-20  
20.5cm/8"





**Straight**  
21-07406-20  
20cm/8"

**Curved on Flat**  
21-07407-20  
20cm/8"



**VanBuren**  
21-07410-23  
23cm/9"



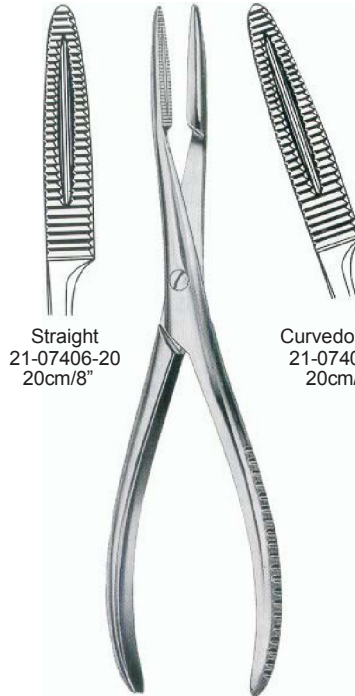
**Dingmann**  
21-07414-19  
19cm/7 1/2"



**Dingmann Modif**  
21-07416-19  
19cm/7 1/2"



**Neff**  
21-07420-21  
21cm/8 1/4"



**Straight**  
21-07406-20  
20cm/8"

**Curved on Flat**  
21-07407-20  
20cm/8"



**VanBuren**  
21-07410-23  
23cm/9"



**Dingmann**  
21-07414-19  
19cm/7 1/2"



**Dingmann Modif**  
21-07416-19  
19cm/7 1/2"



**Neff**  
21-07420-21  
21cm/8 1/4"



21-07450-16  
16cm/6 1/4"  
21-07450-24  
24cm/9 1/2"



Without Ratchet	Kern		With Ratchet
	cm	in	
21-07454-17	17	6 3/4"	21-07456-17
21-07454-21	21	8 1/4"	21-07456-21



21-07460-18	18cm/07"	21-07461-18
21-07460-23	23cm/09"	21-07461-23
21-07460-25	25cm/10"	21-07461-25
21-07460-28	28cm/11"	21-07461-28



**Hey Groves**  
21-07464-21 21.0cm/8 1/4"  
21-07464-27 27.0cm/10 1/2"  
21-07464-30 30.5cm/12"



**Semb**  
21-07468-19  
19cm/7 1/2"



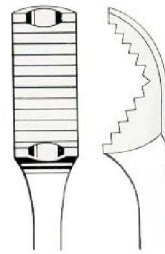
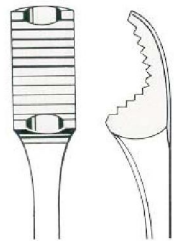
**Semb**  
21-07470-19  
19cm/7 1/2"



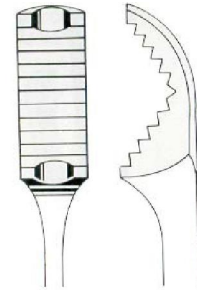
**Verbrugge**  
21-07474-17  
17.5cm/7"



21-07478-25  
25cm/10"



21-07478-26  
26cm/10 1/4"  
**Verbrugge**



21-07478-27  
27cm/10 1/2"



21-07482-1515cm/6"  
 21-07482-1919cm/7 1/2"  
 21-07482-2424cm/9 1/2"  
 21-07482-2626cm/10 1/4"  
 21-07482-2828cm/11"



Handles Detachable

**Percy**  
 21-07486-30

Adjustable



**Lambotte**  
 21-07490-2222cm/8 3/4"  
 21-07490-2727cm/10 1/2"  
 21-07490-3030cm/12"



**Farabeuf**  
 21-07494-2323cm/9"  
 21-07494-2626cm/10 1/4"



**Lambotte**  
 21-07498-2222.5cm/9"  
 21-07498-2525.5cm/10 1/2"  
 21-07498-3333cm/13 1/2"





**Farabeuf-Lambotte**  
21-07502-26  
26cm/10 ¼"



**Lambotte**  
21-07506-1919cm/7 ½"  
21-07506-2323cm/9"  
21-07506-2626cm/10 ¼"



Without Ratchet	Lane	With Ratchet
	cm in	
21-07510-33	33 13"	21-07514-33
21-07510-45	45 17¾"	21-07514-45



21-07518-14  
14.5cm/5 ¾"



21-07522-12  
12cm/4 ¾"







**Stellbrink**  
17.5cm/7"



**Bane-Hartmann**  
21-07563-17  
17.5cm/7"



**Mini-Friedmann**  
21-07567-12  
12.5cm/5"



**Friedmann**  
21-07571-14  
14cm/5 1/2"



**Friedmann-Delicate**  
15cm/6"

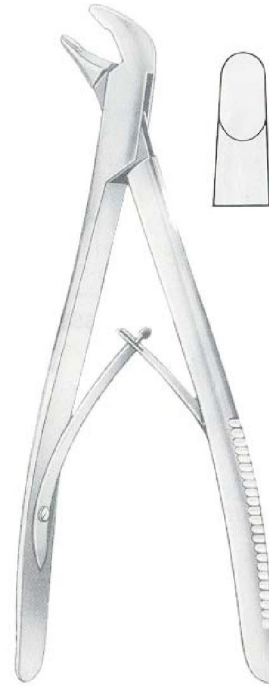


21-07575-15



90°

21-07577-15



**Bacon**  
21-07580-20  
20cm/8"



**Cleveland**  
21-07583-14 14cm/5 1/2"  
21-07583-17 17cm/6 3/4"



**Hartmann**  
21-07587-18  
18.5cm/7 1/4"



**Olivecrona**  
21-07591-20  
20cm/8"



21-07595-16



21-07597-16

**Mead**  
16.5cm/6 1/2"



**Lempert**

	cm	in	
Straight	16	6 1/4"	21-07603-16
Curved	19	7 1/2"	21-07603-19



**Beyer**  
21-07607-18  
18cm/7"



21-07610-17



21-07611-17

**Jansen**  
17.5cm/7"



**Blumenthal**  
15.5cm/6"



21-07615-15



21-07617-15



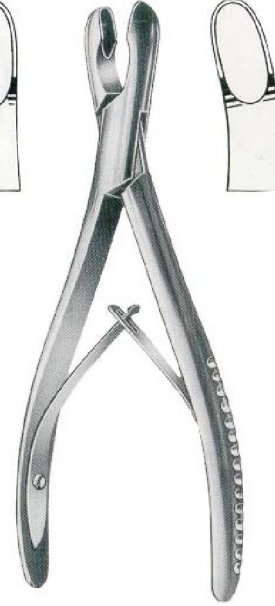
21-07619-15



**Hakansson**  
21-07621-15  
15.5cm/6"



**Jansen**  
21-07623-18  
18cm/7"



Straight  
21-07626-17

Curved  
21-07627-17

**Luer**  
17cm/6 3/4"



HeavyPattern

**Luer**  
18.5cm/7 1/4"

Straight  
21-07630-18

Curved  
21-07631-18



**Luer**  
15cm/6"



21-07635-15



21-07637-15



21-07639-15



**Adson**  
20cm/8"



21-07642-20





**Kleinert-Kutz**  
15cm/6"



21-07645-15  
2mm



21-07647-15  
3mm



**Bohler**  
15cm/6"



21-07650-15



21-07651-15



**Beyer  
Zaufal-Jansen**  
18cm/7"



**Zaufal-Jansen**  
21-07653-18



**Beyer**  
21-07655-18



**Mayfield**  
21-07659-17  
17cm/6 3/4"



**Ruskin**  
21-07663-18  
18cm/7"  
Angled



**Straight**  
21-07666-18  
18cm/7"  
21-07666-23  
23cm/9"



**Ruskin**

**Curved**  
21-07667-18  
18cm/7"  
21-07667-23  
23cm/9"





**Marquardt**  
21-07671-20  
20cm/8"



**Rottgen-Ruskin**  
21-07675-24  
24cm/9 1/2"



21-7679-03  
3mm



21-7679-04  
4mm



21-7679-05  
5mm



21-7681-03  
3mm



21-7681-04  
4mm



21-7681-05  
5 mm



**Smith-Petersen**  
24cm/9 1/2"



**Stille-Luer**  
22cm/8 3/4"



**Straight**  
21-07684-22



**Curved**  
21-07685-22



**Stille-Luer**  
27cm/10 1/2"



21-07688-27



21-07689-27



**Semb**  
21-07693-23  
23cm/9"



**Stille-Ruskin**  
21-07697-23  
23cm/9"



**Echlin**  
23cm/9"



**Leksell**  
23cm/9"

21-07701-02  
2mm

21-07701-03  
3mm

21-07701-04  
4mm

21-07705-03  
3mm

21-07705-04  
4mm

21-07705-06  
6mm

21-07705-08  
8mm



**Frykholm**  
21-07709-23  
23cm/9"



**Stille**  
21-07713-23  
23cm/9"



**Sauerbruch**  
30cm/12"

21-07716-30

21-07718-30



**Markwalder**  
21-07721-20  
20cm/8"



**Straight Liston**  
cm in  
21-07724-14 14 5½  
21-07724-17 17 6¾  
21-07724-19 19 7½  
21-07724-22 22 8¾



**Curved Liston**  
21-07725-14  
21-07725-17  
21-07725-19  
21-07725-22



**Littauer-Liston**  
21-07728-15  
15cm/6"



**Cleveland**  
21-07731-15 15cm/6"  
21-07731-17 17cm/6 ¾"



**Bohler**  
15cm/6"



**Straight Liston**  
21-07734-15



**Curved Liston**  
21-07735-15



**McIndoe**  
21-07739-17  
17.5cm/7"

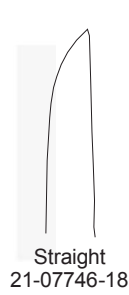




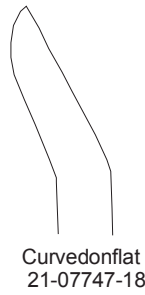
**Kazanjan**  
21-07742-18  
18cm/7"



**Ruskin-Liston**  
18.5cm/7 ¼"



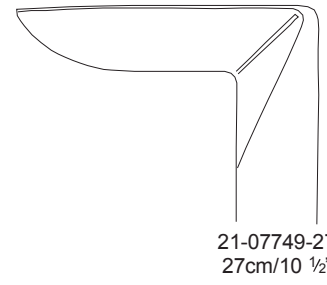
**Straight**  
21-07746-18



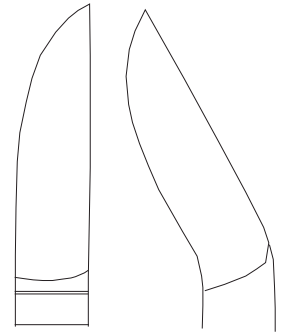
**Curved on flat**  
21-07747-18



**Stille-Liston**  
23cm/9"  
27cm/10 ½"

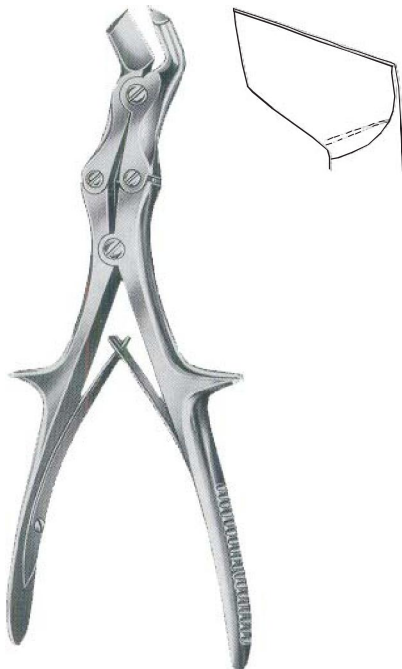


21-07749-27  
27cm/10 ½"



21-07750-23  
21-07750-27

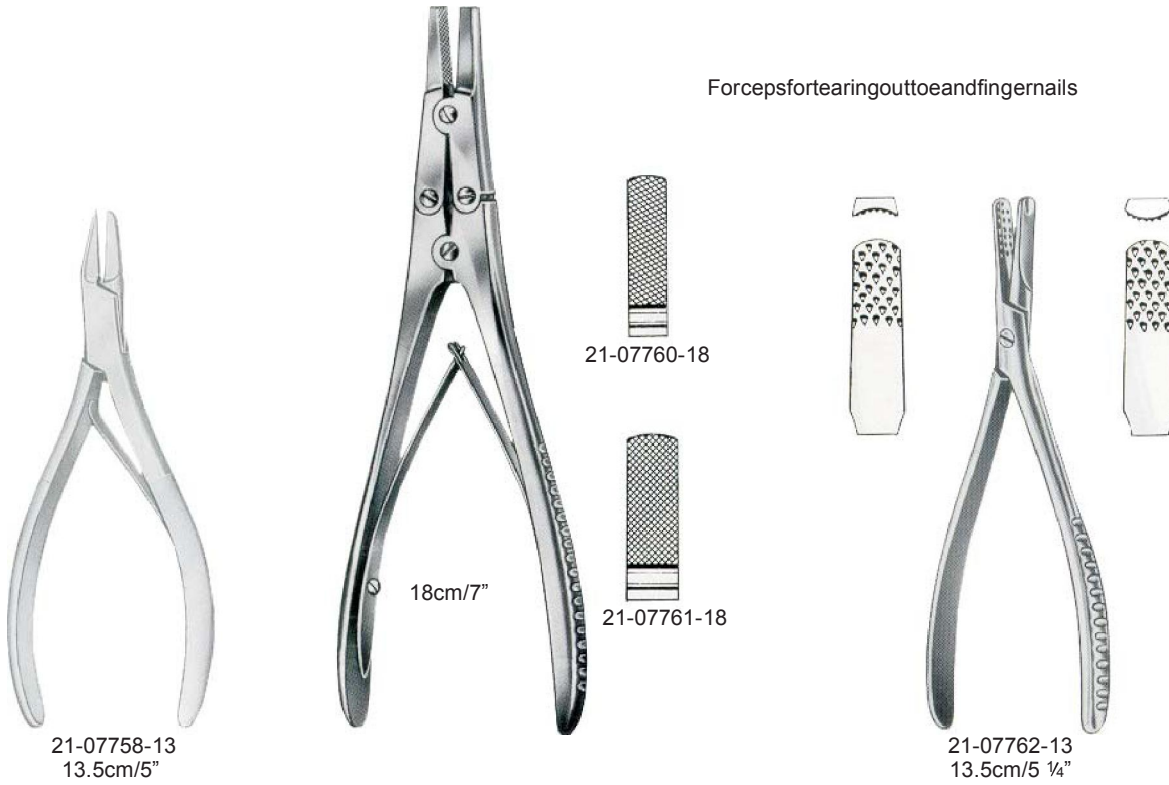
21-07751-23  
21-07751-27



**Liston-Key (Horsley)**  
21-07753-27  
27cm/10 ½"



**Semb**  
21-07755-24  
24cm/9 ½"



Sawblade



21-07764-17  
17cm/6 3/4"

Sawblade



21-07766-17  
17cm/6 3/4"





**Langenbeck**  
21-07768-23  
23cm/9"



**Satterlee**  
21-07770-31  
31cm/12 1/4"



**Charriere**  
21-07772-27 27cm/10 1/2"  
21-07772-30 30cm/12"



**Charriere**

Sparesawblades  
21-07774-12 12mm  
21-07774-15 15mm  
Completo with 2 blades  
21-07774-35



**Helferich-Bier**

Sparesawblades  
21-07776-43 3mm  
21-07776-45 5mm  
21-07776-47 7mm  
Completo with 3 blades  
21-07776-39



Hudson  
21-07778-00  
Handdrill, with 4 burrs, fig. 1-4

**Handle, only**  
21-07778-10

Conicalandsphericalburrs,single

Flattrephine

Extensionpiece



Fig.1  
21-07778-01  
9mm Ø



Fig.2  
21-07778-02  
14mm Ø



Fig.3  
21-07778-03  
16mm Ø



Fig.4  
21-07778-04  
22mm Ø



**Cushing**  
Fig.5  
21-07778-05  
14mm Ø

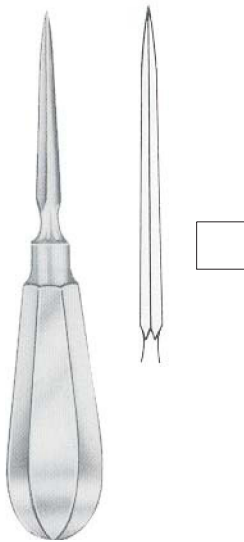


Fig.6  
21-07778-06

Drillguideandduraprotectingforceps



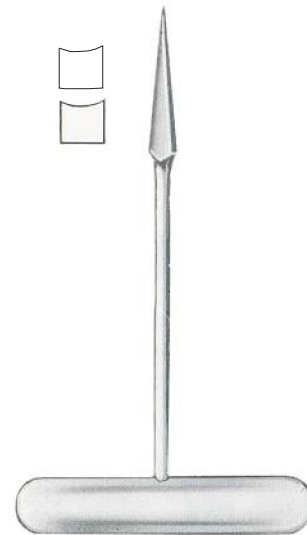
**Adson**  
21-07780-15  
15cm/6"



21-07784-14  
14cm/5 1/2"



**Perthes**  
21-07786-21  
21cm/8 1/4"



21-07788-14  
14cm/5 1/2"

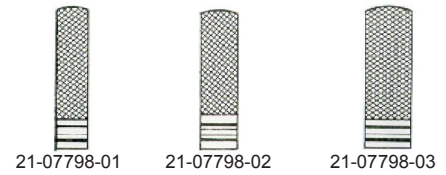


21-07792-14  
14cm/5 1/2"

21-07794-16  
16cm/6 1/4"

18cm/7"

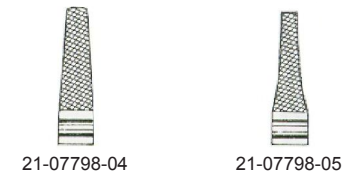
### PinsmedTC



21-07798-01

21-07798-02

21-07798-03



21-07798-04

21-07798-05

### PinsmedTC



21-07802-18 18cm/7"  
21-07802-20 20cm/8"

### PinsmedTC



21-07806-16  
15cm/6"

21-07806-20  
20cm/8"

21-07810-16  
15cm/6"



21-07814-13 13cm/5"  
21-07814-18 18cm/7"



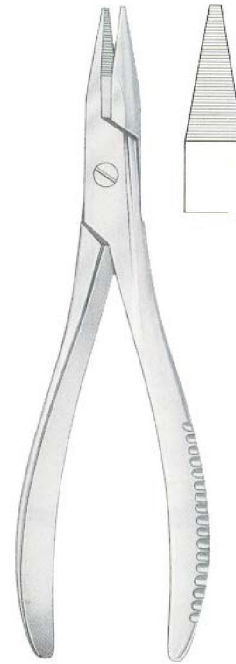
21-07818-17  
17cm/6 3/4"



21-07822-15  
15.5cm/6"



21-07826-17 17cm/6 3/4" 21-07828-17



21-07830-19  
19cm/7 1/2"



Forswire  
withdiam.ofmax.

21-07834-15  
15cm/6"  
2.0mm

21-07836-18  
18.5cm/7 ¼"  
1.7 mm

21-07837-16  
16cm/6 ¼"  
2.0 mm

Forhardwire  
withdiam.ofmax.

1.5mm

1.7 mm

2.0 mm



## PinsmedTC



21-07840-12  
0.7mm  
0.5mm  
12cm/4 3/4"



21-07844-15  
2.0mm  
1.0mm  
15cm/6"



21-07848-18  
2.0mm  
1.7mm  
18cm/7"



21-07852-18  
2.5mm  
1.5mm  
18.5cm/7 1/4"



21-07856-18  
2.0mm  
1.7mm  
18cm/7"

21-07860-22  
3.0mm  
2.5mm  
22cm/8 3/4"



21-07864-22  
3.0mm  
22cm/8 3/4"



With1Pin

**Bohler**

cm	in	
hxb	hxb	ForArm
16x9	6¼x3 ½	21-07868-16

cm	in	
		ForThighandKnee
21x11	8¼x4 ½	21-07868-21

With3TractionHooks



**Kirschner**

ClearWidth	cm	in
21-07872-01	9.5x7	3¾x2¾
21-07872-02	10.5x10.5	4¼x4¼
21-07872-03	12x12	4¾x4¾
21-07872-04	15.5x15.5	6x6
21-07872-05	20x15.5	8x6

With3TractionHooks



ClearWidth

	cm	in
21-07876-18	18x10	07x04
21-07876-27	27x16	10½x06¼



**Kirschner**

21-07880-01	SmallPattern
21-07880-02	MediumPattern
21-07880-03	LargePattern

ScrewNutWrench



21-07884-10  
10cm/4"

ScrewDriver



21-07884-12  
12cm/4 3/4"

WireStrainer



21-07884-20  
20cm/8"

FixationDiscsForDrillWires



21-07884-30  
Pair



21-07884-40



21-07884-42

FixationDiscs



21-07884-51  
Pair

BoneWireGuides



BoneWireTighteners

**Loute**  
21-07888-00  
21cm/8 1/4"



Demel

BoneWireGuides

Fig. 121-07892-01  
Fig. 221-07892-02  
Fig. 321-07892-03

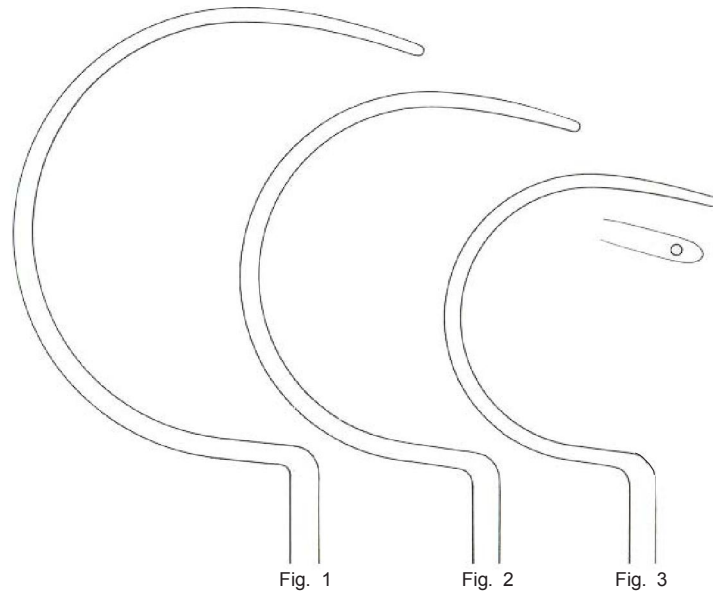


Fig. 1

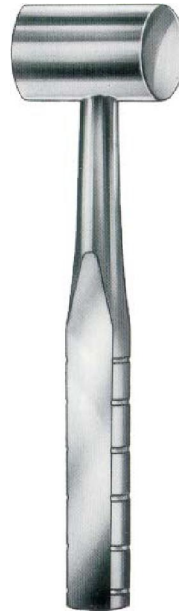
Fig. 2

Fig. 3

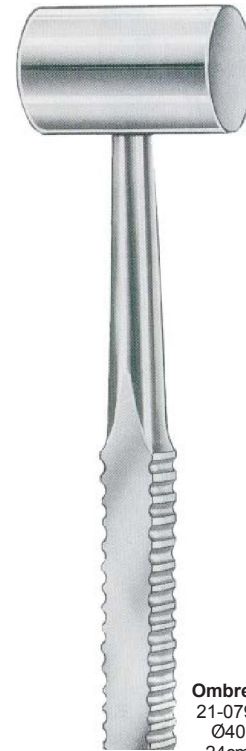


100g21-07896-10  
350g21-07896-35  
500g21-07896-50  
700g21-07896-70

22cm/8 1/2"



**Heath**  
21-07900-18  
18cm/7" Ø40mm



**Ombredanne**  
21-07904-24  
Ø40mm  
24cm/9 1/2"  
550g



**Williger**  
21-07912-23  
23cm/9"  
150g



**Hajek**  
21-07916-21  
Ø27mm  
21cm/8 1/4"  
140g



1SideFlat  
1SideConvex

**Cottle**  
21-07908-19  
Ø30mm  
19cm/7 1/2"  
350g



165g  
Ø22mm

21-07920-19  
19cm/7 1/2"



Fig. 121-07924-1919mmO /  
Fig. 221-07924-2525mmO /

**Lucae**  
19cm/7 1/2"



21-07928-16  
16.5cm/6 1/2"



320g  
Ø26mm

SolidWith  
Interchangeable  
FerrozellJaws

**Mead**  
21-07932-17  
17cm/6 3/4"



280g  
SolidSteel

**Gardner**  
21-07936-14  
14cm/5 1/2"



200g  
22mmO/  
(7oz.)

**Partsch**  
21-07940-18  
18cm/7"



**Gerzog**  
21-07944-19  
19cm/7 1/2"





21-07948-34  
34cm/13½"

Tendon Passing Instruments

Malleable



**Bunnell**  
21-07950-1818cm/7"  
21-07950-2323cm/9"

Tendon Strippers

mmO/  
4.021-07952-40  
4.521-07952-45  
5.521-07952-55  
FlexibleShaft



**Bunnell**  
23cm/9"



**Fischer**  
21-07956-31  
31cm/12 ¼"



**Brand**

21-07960-50  
50cm/19 ½"  
06mmO/

21-07962-30  
30cm/12"  
03mmO/



**Brand**  
21-07964-50  
50cm/19 ½"

6x14mm



**Steinmann**  
21-07968-16  
16cm/6 1/4"



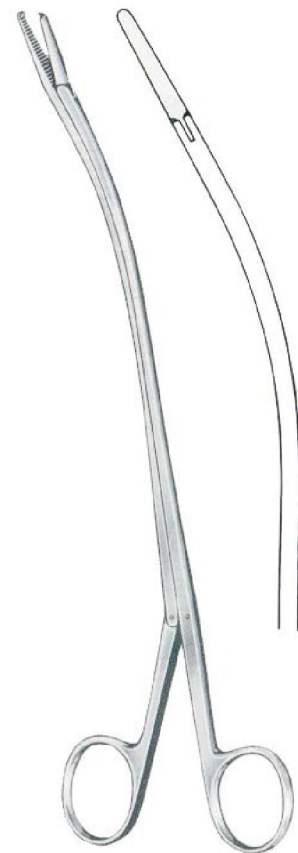
**Larsen**  
10cm/4"



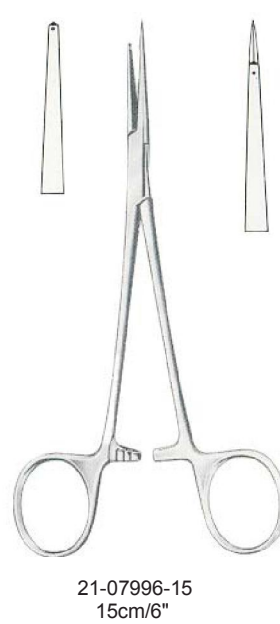
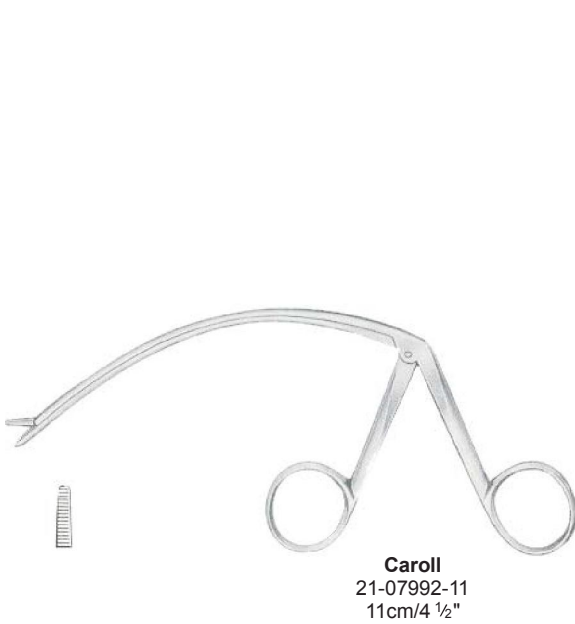
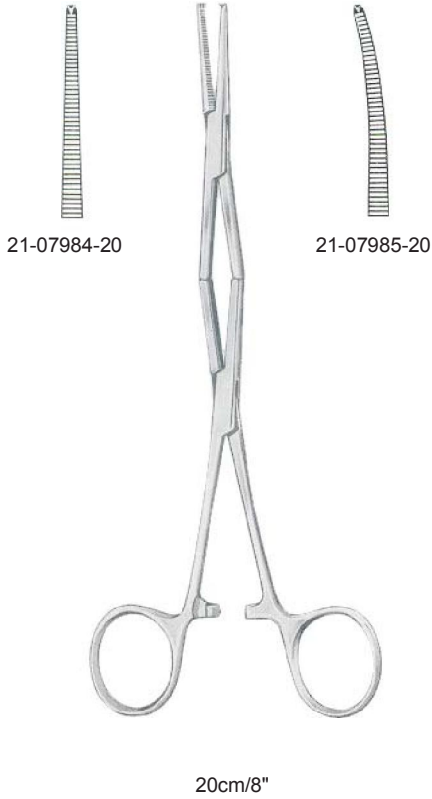
**Kleinert-Kutz**  
21-07976-20  
20cm/8"

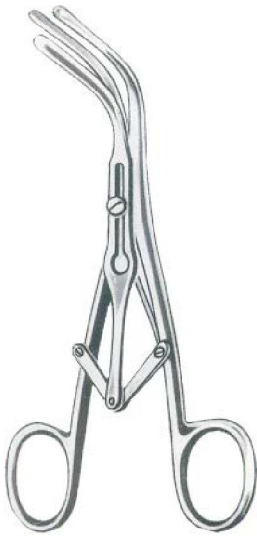


**Brand**  
21-07980-1515cm/6"  
21-07980-1919cm/7 1/2"  
21-07980-2424cm/9 1/2"



**Brand**  
21-07981-1515cm/6"  
21-07981-1919cm/7 1/2"  
21-07981-2424cm/9 1/2"





**Laborde**  
 22-08000-13 13cm/5"  
 22-08000-15 15cm/6"



**Trousseau**  
 22-08004-14  
 14cm/5 1/2"



**Trousseau-Baby**  
 22-08006-13  
 13cm/5"

Hooks

Left

Right

Sharp

Thyroid Gland Retractor

Trachea Trocars



**Bose**  
 22-08010-07  
 7cm/2 3/4"



22-08013-16



22-08015-16











**Bose**  
 16cm/6 1/4"



**Schoenborn**  
 22-08018-21  
 21cm/8 1/4"




**Uckerman**  
 22-08022-08 08mmO/  
 22-08022-10 10mmO/  
 13cm/5"

Fig	0	1	2	3	4	5	6	7	8	9
										
Ømm	04	05	06	07	08	09	10	11	12	13
Charr./Fr.	12	15	18	21	24	27	30	33	36	39
	45	50	55	60	65	70	75	80	85	90

Length of Outer Tube


Standard Pattern



Luer


Fig.	mmØ	
0	4	22-08026-04
1	5	22-08026-05
2	6	22-08026-06
3	7	22-08026-07
4	8	22-08026-08
5	9	22-08026-09
6	10	22-08026-10
7	11	22-08026-11
8	12	22-08026-12
9	13	22-08026-13

Chevalier-Jackson



Luer

Fig.	mmØ	
0	4	22-08028-04
1	5	22-08028-05
2	6	22-08028-06
3	7	22-08028-07
4	8	22-08028-08
5	9	22-08028-09
6	10	22-08028-10
7	11	22-08028-11
8	12	22-08028-12
9	13	22-08028-13



Luer

Fig.	mmØ	
4	8	22-08030-08
5	9	22-08030-09
6	10	22-08030-10
7	11	22-08030-11
8	12	22-08030-12
9	13	22-08030-13



GoitreProbes

**Kocher**

23-08034-1515cm/6"  
23-08034-1616cm/6 1/4"



GoitreGraspingForceps

**Lahey**

23-08038-1515cm/6"  
23-08038-2020cm/8"



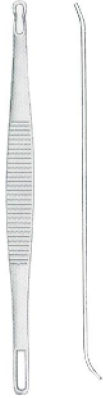
**MuscleForceps**

23-08042-17

**Mastin**  
17cm/6 3/4"



## Comedone Extractors



**Schamberg**  
 24-08046-10  
 10cm/4"



**Unna**  
 24-08050-14  
 14cm/5 1/2"



**Unna**  
 24-08052-14  
 14cm/5 1/2"



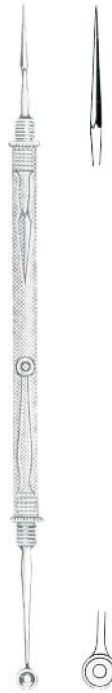
**Sealfeld**  
 24-08056-10  
 10cm/4"



**Saalfeld**  
 24-08060-14  
 14cm/5 1/2"



**Katsch**  
 24-08064-14  
 14cm/5 1/2"



**Hebra**  
 24-08068-18  
 18cm/7"



**Piffard**  
 14.5cm/5 3/4"

## Skin Curettes



Fig.124-08072-01

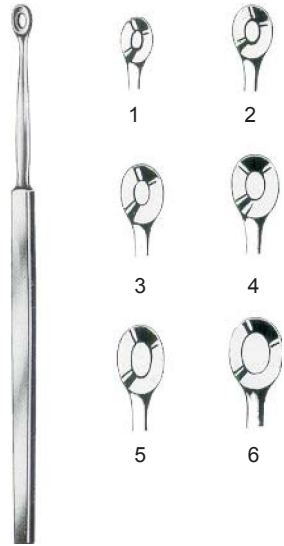


Fig.224-08072-02



Fig.324-08072-03

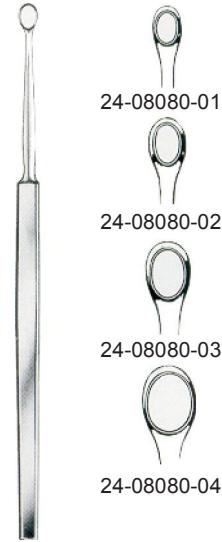
## LupusCurettes



**Wolff**  
14cm/5 1/2"

- Fig.  
1 24-08076-01  
2 24-08076-02  
3 24-08076-03  
4 24-08076-04  
5 24-08076-05  
6 24-08076-06

## LupusCurettes



**Fox**  
14cm/5 1/2"

## LupusScraper



**Vidal**  
24-08084-14  
14cm/5 1/2"

## MoncorpsKnife



**Moncorps**  
24-08088-14  
14cm/5 1/2"



**Gillies**  
Fig.124-08092-01  
Fig.224-08092-02  
18cm/7"

## CutaneousHook



**Kilner**  
24-08094-15  
15cm/6"



		Allis	
		4:5	5:6
cm	in		
15	6"	25-08096-15	25-08100-15
19	7½"		25-08100-19
23	9"		25-08100-23
25	10"		25-08100-25



		Baby-Allis	
		25-08104-12	12cm/4 ¾"
		25-08104-14	14cm/5 ½"



		Allis-Atrauma	
		25-08108-16	16cm/6 ¼"
		25-08108-20	20cm/8"
		25-08108-25	25cm/10"
		25-08108-30	30cm/12"



**Allis-Adair**  
 25-08112-15  
 15cm/6"



**Baby-Allis**  
 25-08116-15  
 15cm/6"



**Lockwood-Allis**  
 25-08120-16 16cm/6 ¼"  
 25-08120-20 20cm/8"



**Thoms-Allis**  
 25-08124-20  
 20cm/8"

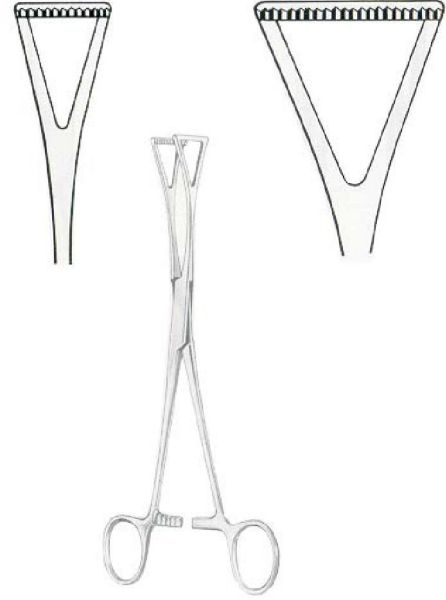


**PinsmedAtrauma**

**PinsmedTc**

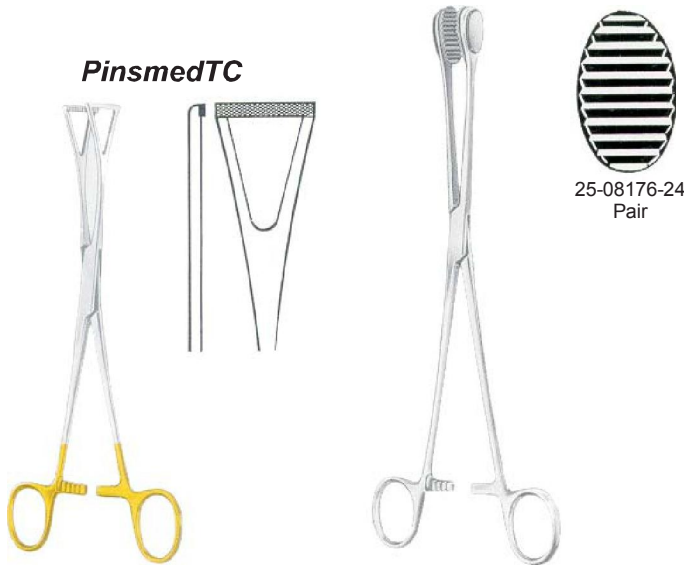


**PinsmedAtrauma**



	Duval		
	cm	in	
25-08164-18	18	7"	
25-08164-20	20	8"	25-08168-20
25-08164-23	23	9"	25-08168-23

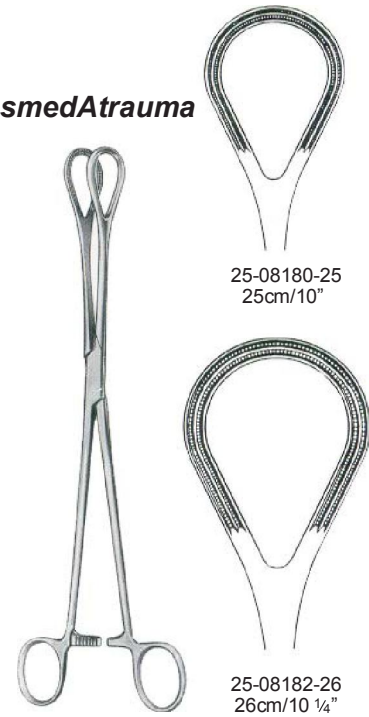
**PinsmedTC**



**Duval**  
 25-08172-20  
 20cm/8"

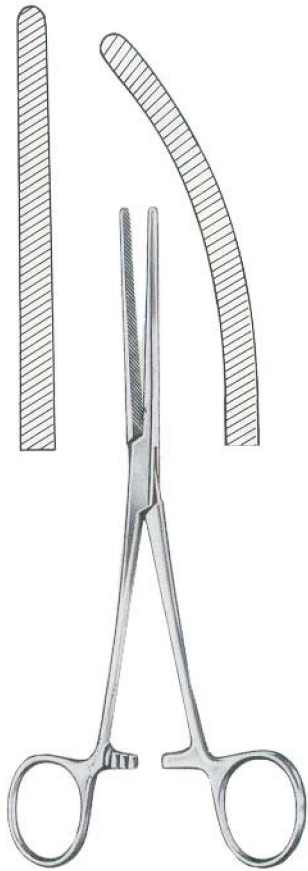
**Child**  
 24cm/9 1/2"

**PinsmedAtrauma**

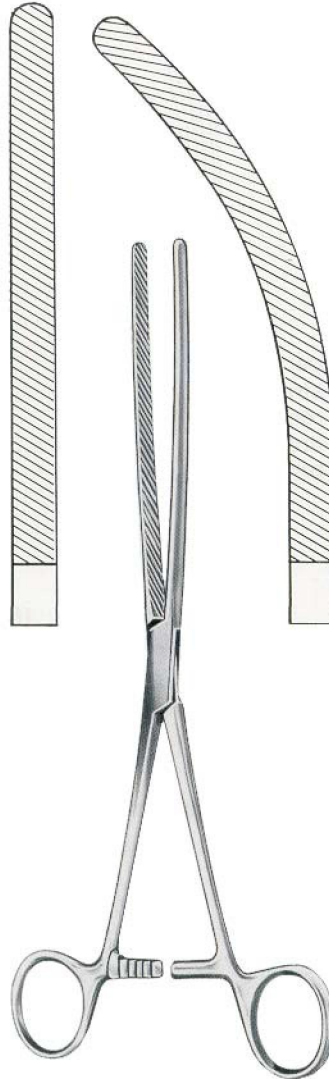


25-08180-25  
 25cm/10"

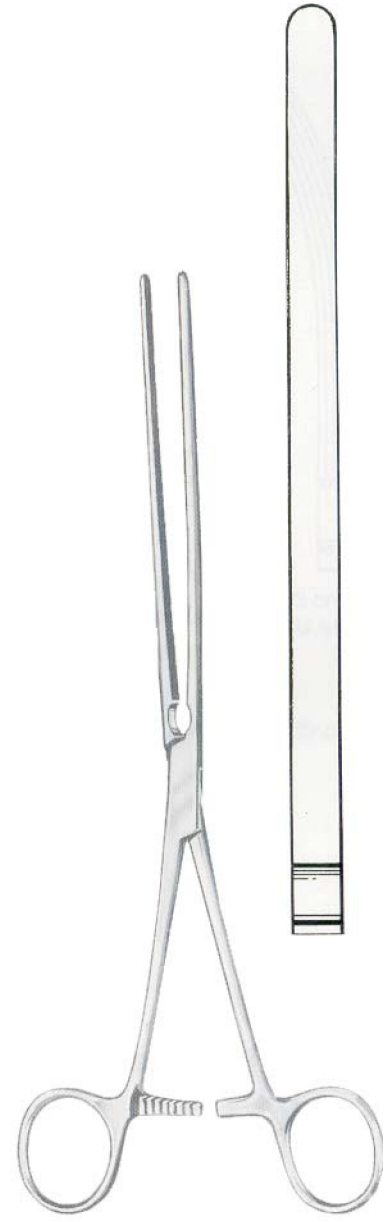
25-08182-26  
 26cm/10 1/4"



**Baby-Doyen**  
 Straight 25-08186-18 18cm/7"  
 Curved 25-08187-18 18cm/7"



**Doyen**  
 Straight 25-08190-21 21cm/8 1/4"  
 25-08190-23 23cm/9"  
 Curved 25-08191-21 21cm/8 1/4"  
 25-08191-23 23cm/9"



**Scudder**  
 25-08194-25 25cm/10"

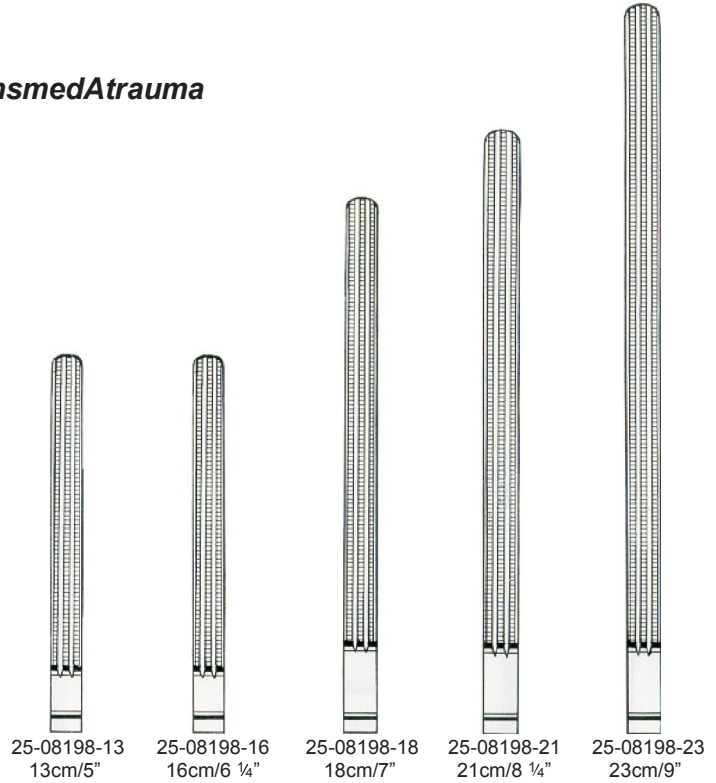


**PinsmedAtrauma**



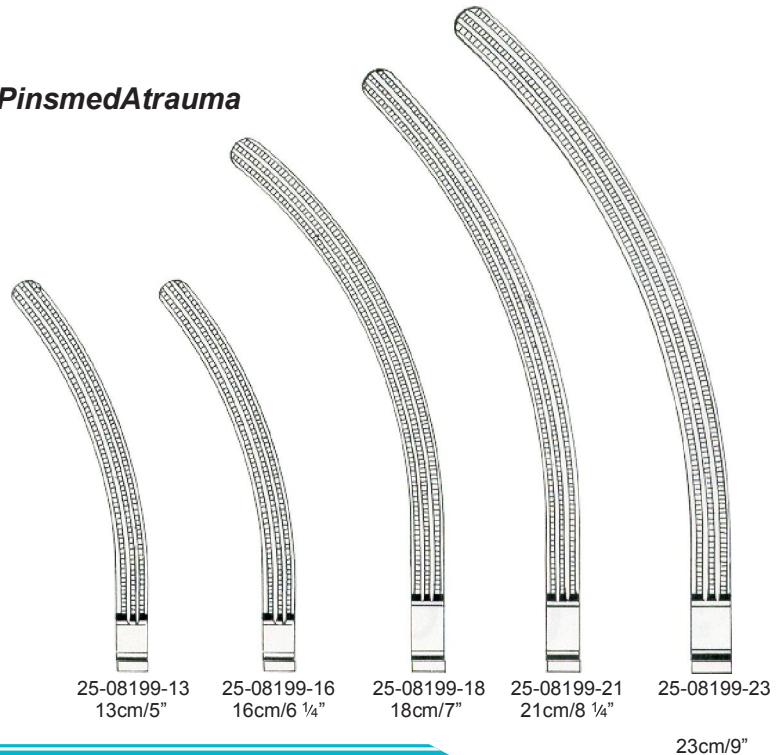
**Doyen-Atrauma**

Straight



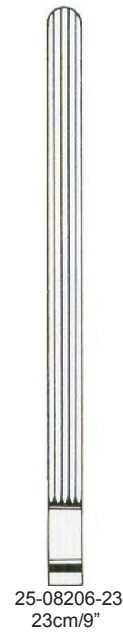
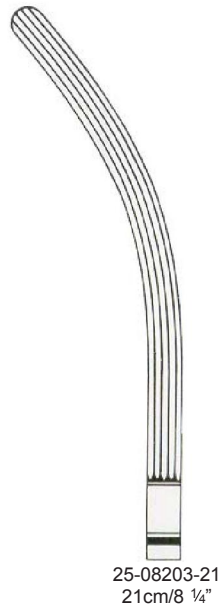
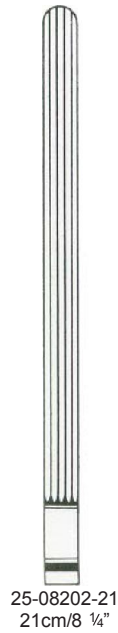
**PinsmedAtrauma**

Curved

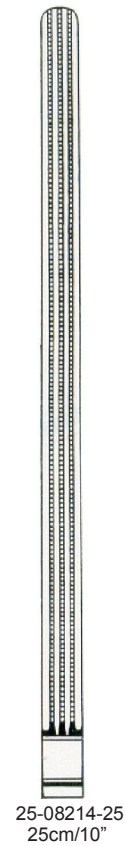
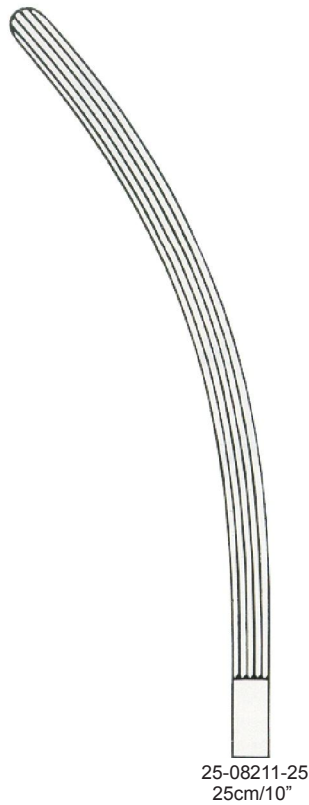




Mayo-Robson  
 Mayo-RobsonAtrauma



**PinsmedAtrauma**

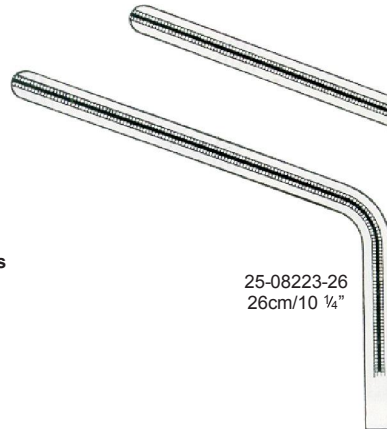




**Resano**  
 25-08219-30  
 30cm/12"

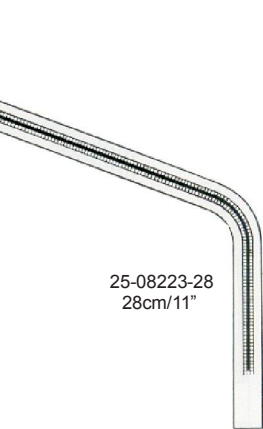


**Hayes**



25-08223-26  
 26cm/10 ¼"

**PinsmedAtrauma**



25-08223-28  
 28cm/11"

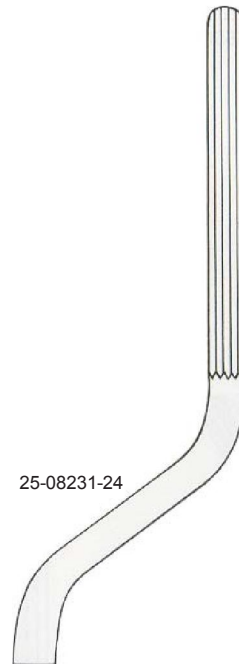


**Fehland**  
 25-08227-24  
 24cm/9 ½"

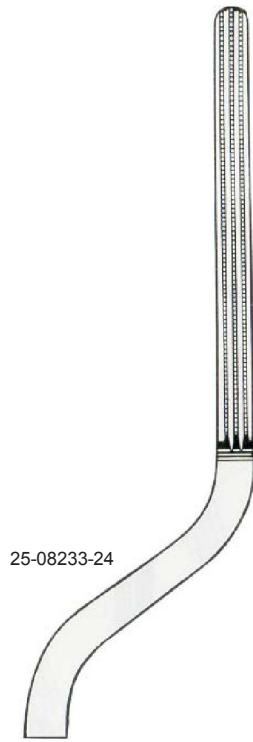


**Brunner**  
 24cm/9 ½"

**PinsmedAtrauma**



25-08231-24



25-08233-24



Straight **Baby-Kocher** Curved  
 25-08236-13 25-08237-13  
 13cm/5" 13cm/5"



**Kocher**



25-08240-22  
 22cm/8 3/4"



25-08240-25  
 25cm/10"



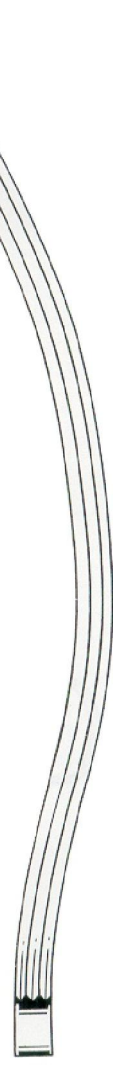
25-08240-28  
 28cm/11"



25-08241-22  
 22cm/8 3/4"



25-08241-25  
 25cm/10"



25-08241-28  
 28cm/11"

*PinsmedAtrauma*



**Kocher-Atrauma**



25-08244-22  
22cm/8 3/4"

25-08244-25  
25cm/10"

25-08244-28  
28cm/11"

25-08245-22  
22cm/8 3/4"

25-08245-25  
25cm/10"

25-08245-28  
28cm/11"





**Straight**  
25-08248-25



**Nussbaum**  
25cm/10"



**Curved**  
25-08249-25



**Benson**  
25-08252-15  
15.5cm/6"

Pylorusspreader



**Allen**  
25-08253-15 15.5cm/6"  
25-08253-20 20.0cm/8"

Blindgutforceps



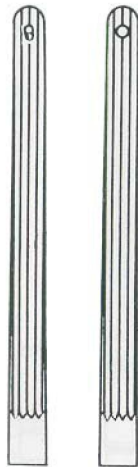
**Kleinschmidt**  
25-08255-12  
12cm/4 3/4"



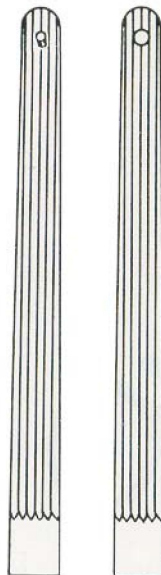


**Payr**  
(Payr-Baby)

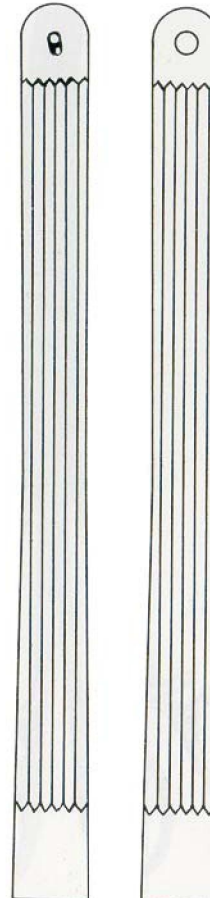
For children



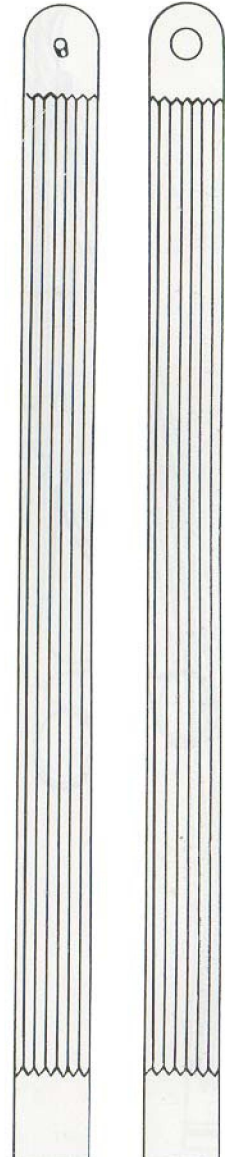
25-08258-15  
15cm/6"



25-08258-21  
21cm/8 1/4"



25-08258-29  
29cm/11 1/2"



25-08258-35  
35cm/13 3/4"

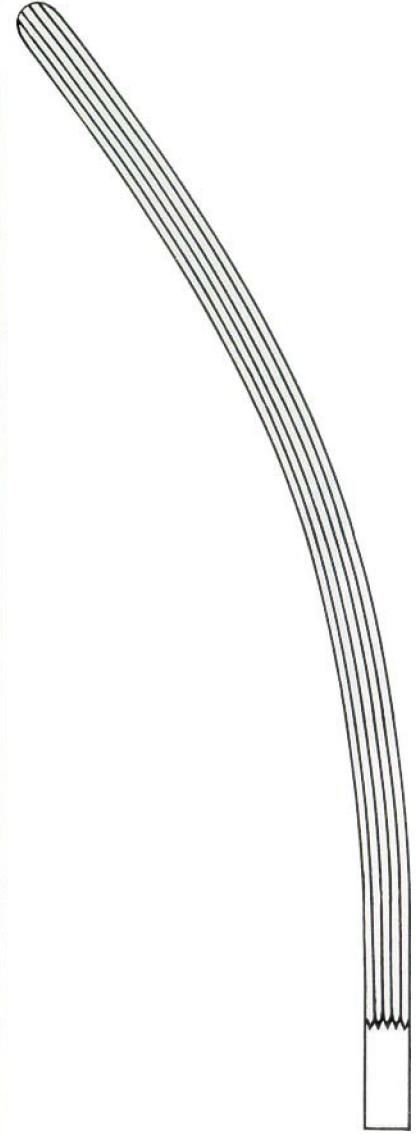
TwinClampsForceps



Lane  
30cm/12"



Straight  
25-08862-30



Curved  
25-08863-30

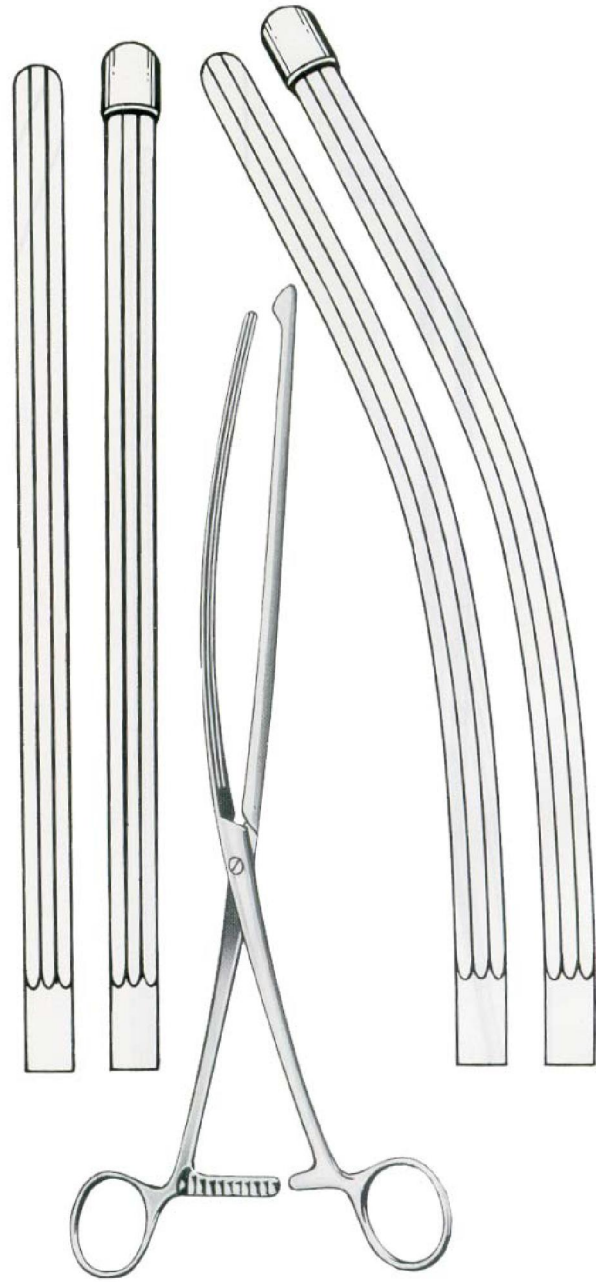
*PinsmedAtrauma*



IntestinalandStomachTwinClamps



**Haberer**  
 25-08274-36  
 36cm/14"



**Straight**  
 25-08278-30

**Nussbaum**  
 30cm/12"

**Curved**  
 25-08279-30



**Czerny**  
 25-08282-22  
 22cm/8 3/4"



**Pratt**  
 25-08286-20  
 80x25mm  
 20.5cm/8"



**Sims**  
 25-08291-15  
  
**(Bodenhammer)**  
**Sims**  
 25-08290-15  
 15cm/6"



Length of Blades  
 25-08294-06 60mm  
 25-08294-08 80mm  
 25-08294-12 125mm  
 25-08294-15 150mm

**Sims**  
 22cm/8 3/4"



**Mathieu**  
 25-08298-19  
 90x15mm  
 19.5cm/7 3/4"





**Barr**  
25-08302-17  
17cm/6 3/4"  
70X22mm



**Smith-Bule**  
25-08306-15  
15cm/6"

Anal Retractors

Anuscopes



Fig. 116mmOxø5mm  
Fig. 219mmOxø5mm  
Fig. 322mmOxø5mm  
Fig. 425mmOxø5mm

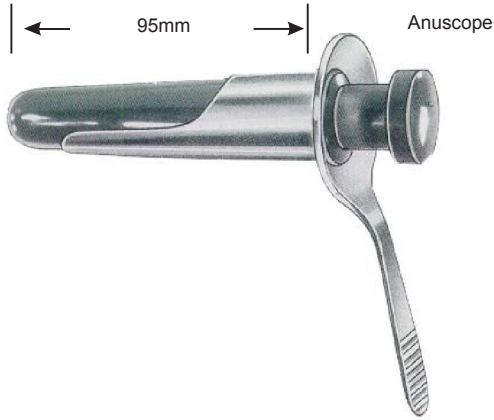
**Hirschmann**  
25-08310-01  
25-08310-02  
25-08310-03  
25-08310-04



Fig. 119mmOx70mm  
Fig. 222mmOx70mm

**Bensaude**  
25-08314-01  
25-08314-02





**Ives-Fansler**  
 25-08318-22  
 22mm Ø

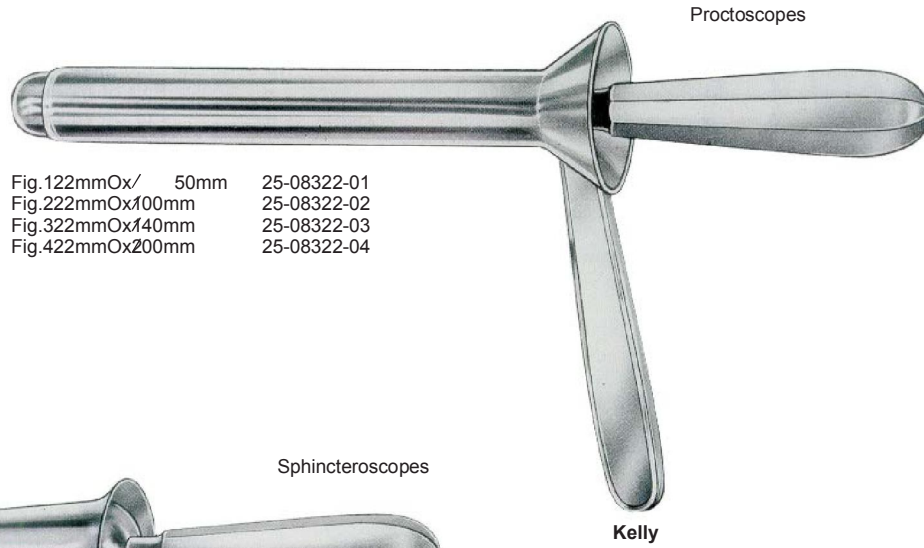
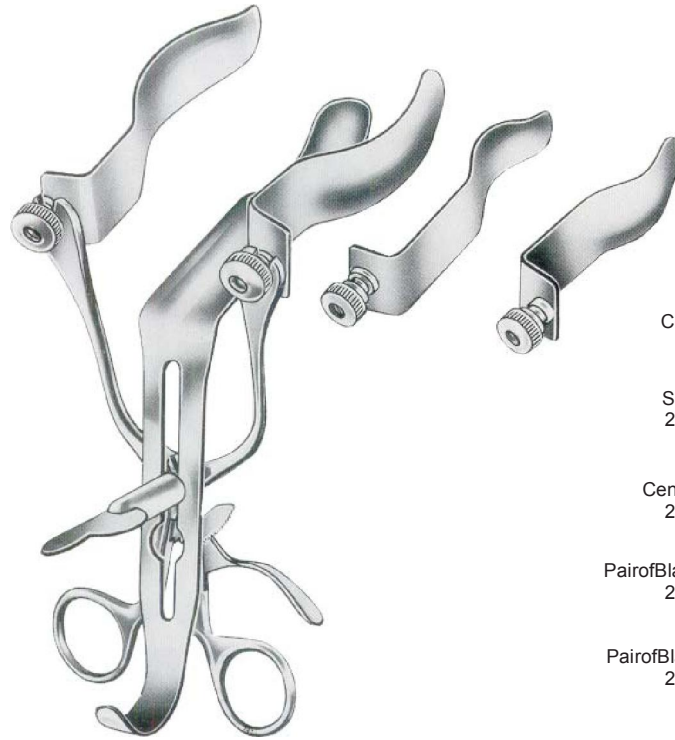


Fig.122mmOx/ 50mm 25-08322-01  
 Fig.222mmOx100mm 25-08322-02  
 Fig.322mmOx140mm 25-08322-03  
 Fig.422mmOx200mm 25-08322-04



Fig.121mmO50mm 25-08326-01  
 Fig.227mmO50mm 25-08326-02



Consistingof:

Speaderonly  
 25-08330-01

CenterBladeonly  
 25-08330-02

PairofBladesOnly75mm  
 25-08330-03

PairofBladesonly95mm  
 25-08330-04

**Park**  
 25-08330-00  
 14.5cm/5 3/4"



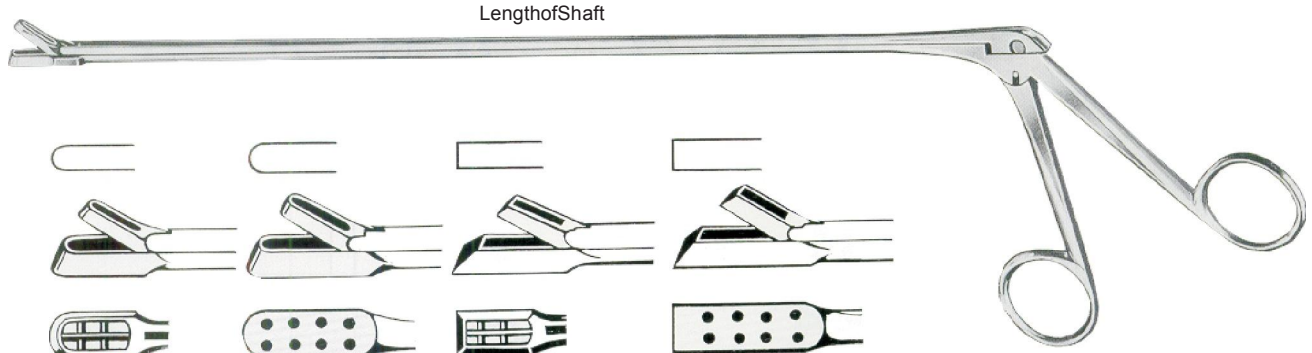
Consistingof:

Speaderonly  
 25-08334-01

PairofBladesonly95mm  
 25-08334-02

**Park**  
 25-08334-00  
 13cm/5"

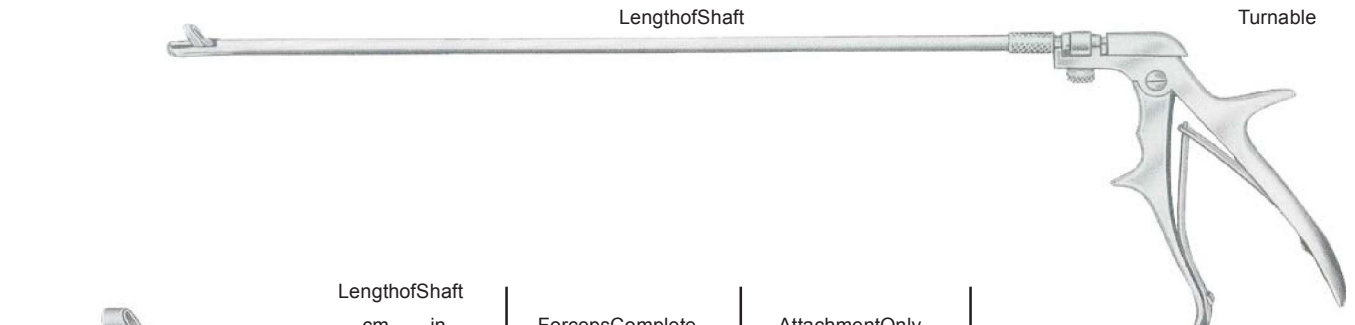
LengthofShaft







		cm	in	
1	2	28	11	<b>Yeoman</b>
25-08338-28	25-08340-28	35	13¾"	
25-08338-35	25-08340-35	42	16½"	
25-08338-42	25-08340-42			
3	4			
25-08342-28	25-08344-28			
25-08342-35	25-08344-35			
25-08342-42	25-08344-42			

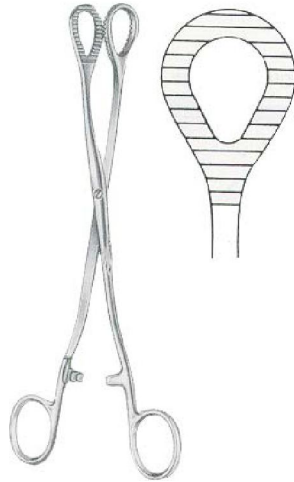
LengthofShaft

Turnable



	LengthofShaft		ForcepsComplete	AttachmentOnly
	cm	in		
	33	13	25-08348-33	25-08358-33
	40	16	25-08348-40	25-08358-40
	33	13	25-08350-33	25-08360-33
	40	16	25-08350-40	25-08360-40
	33	13	25-08352-33	25-08362-33
	40	16	25-08352-40	25-08362-40
	33	13	25-08354-33	25-08364-33
	40	16	25-08354-40	25-08364-40

**Yeoman (Turrell)**  
HandleOnly  
25-08348-00

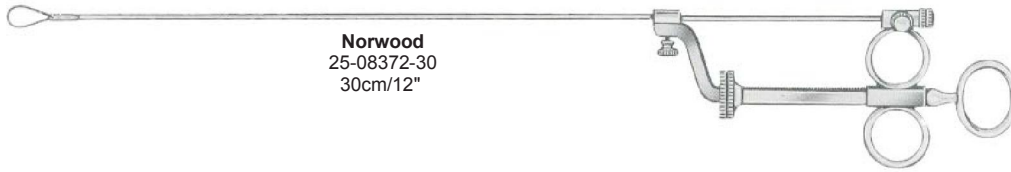


**Heywood-Smith**  
 25-08366-21  
 21cm/8 1/4"



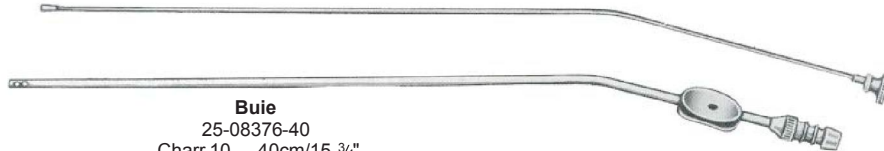
**Heywood-Smith**  
 25-08368-21  
 21cm/8 1/4"

RectalSnare



**Norwood**  
 25-08372-30  
 30cm/12"

RectalAspirationCannula



**Buie**  
 25-08376-40  
 Charr.10. 40cm/15 3/4"

RectalCoolers

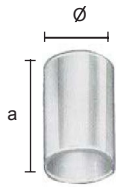


25-08380-01



25-08380-02

AspirationTip



	a	Ø
25-08384-11	11mm	10mm
25-08384-16	16mm	10mm

ChargingCone



10mmO/

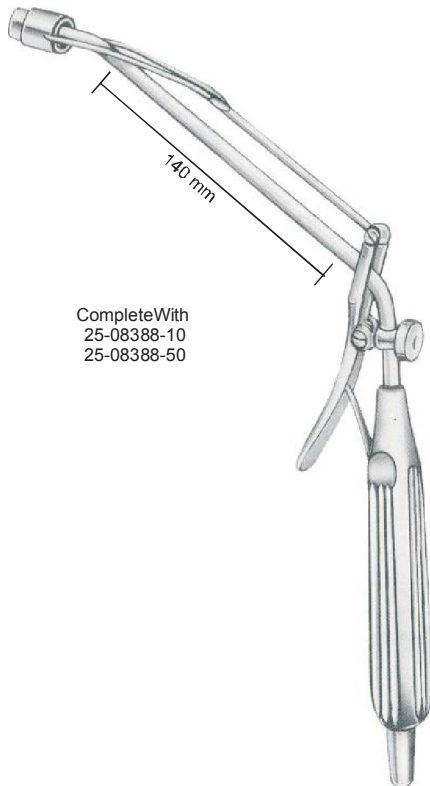
25-08392-10

ChargingCone



12mmO/

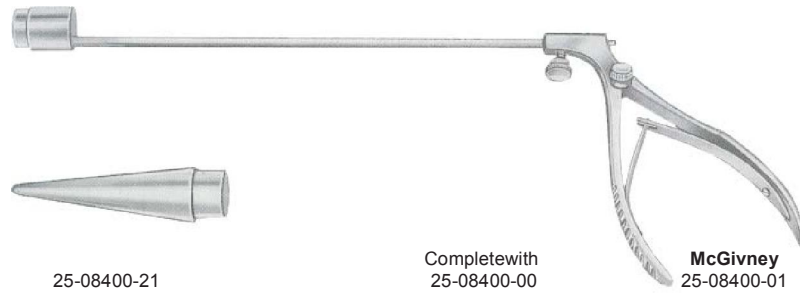
25-08392-12



CompleteWith  
 25-08388-10  
 25-08388-50

CompleteWith  
 25-08396-00  
 25-08396-50

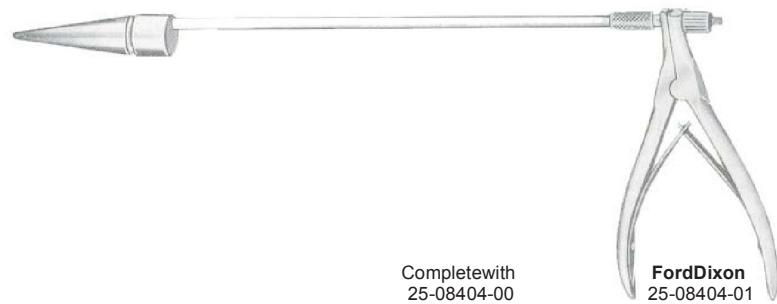
**Rudd**  
 31.5cm/12 1/2"



25-08400-21

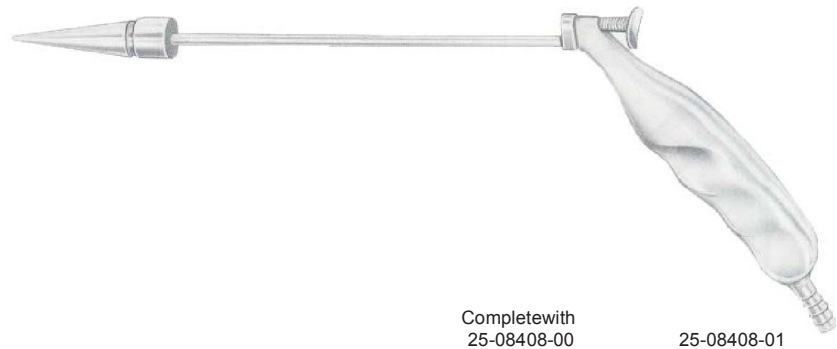
Completo with  
25-08400-00

**McGivney**  
25-08400-01



Completo with  
25-08404-00

**FordDixon**  
25-08404-01



Completo with  
25-08408-00

25-08408-01

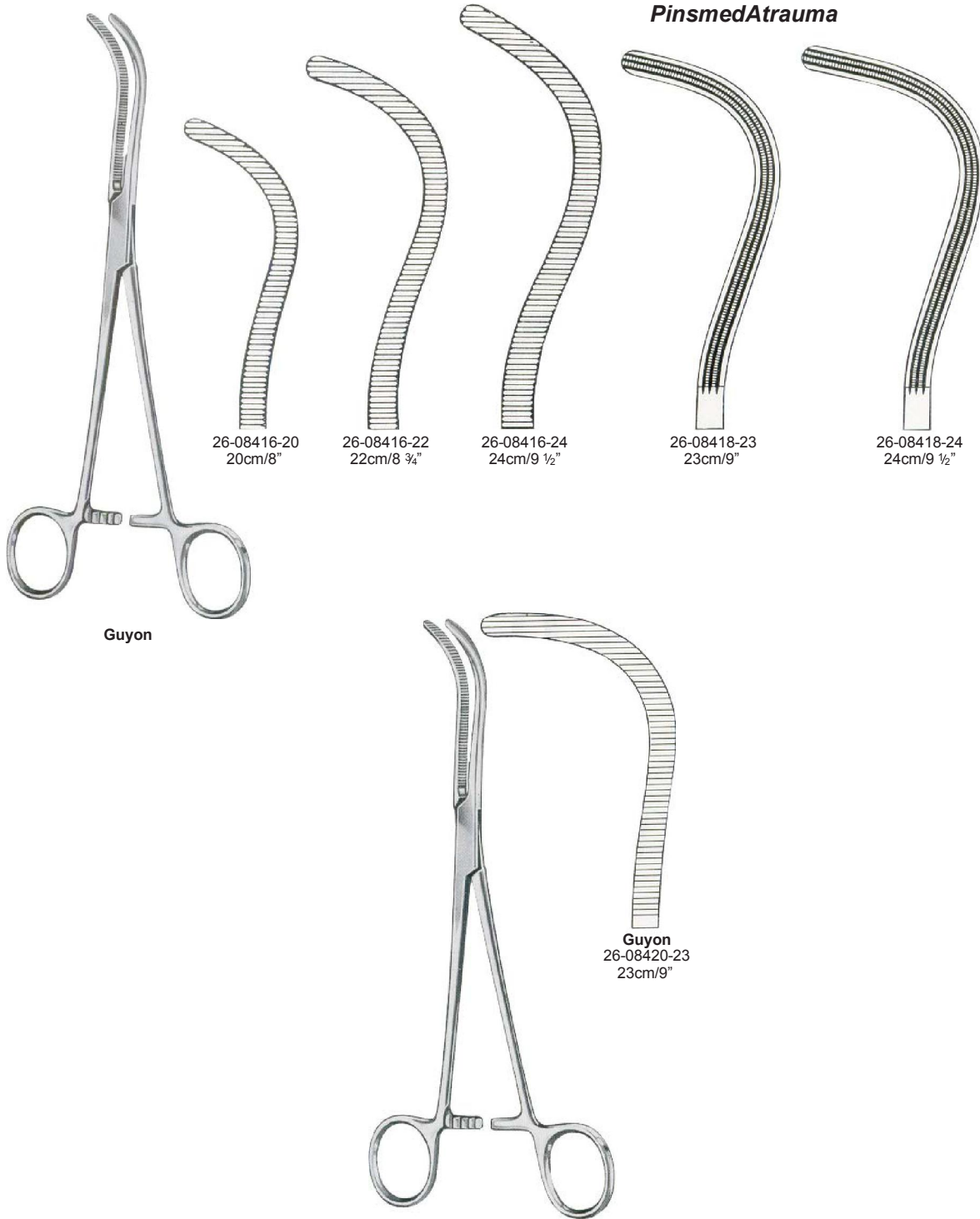


**McGivney**  
25-08412-19  
19cm/7 1/2"



25-08414-00  
Ligaturrubberings  
inboxof100pieces







**Herrick**  
26-08424-23  
23cm/9"



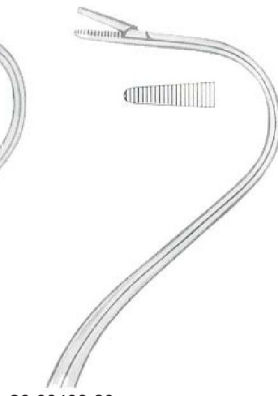
**Mayo-Guyon**  
26-08428-23  
23cm/9"



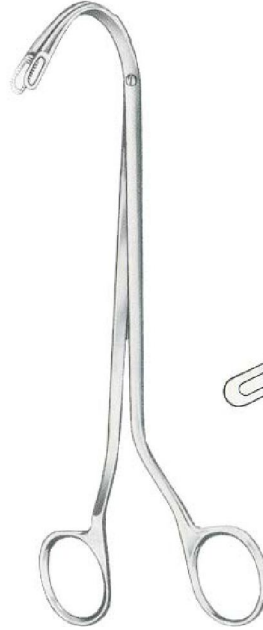
**Stille**  
26-08432-23  
23cm/9"



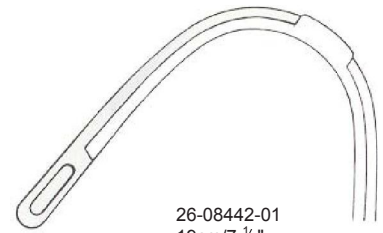
**Elsasser**  
26-08436-20  
20cm/8"



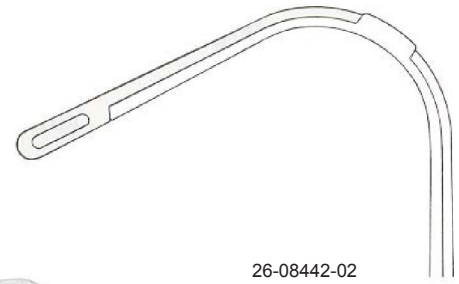
26-08438-20  
20cm/8"



**Randall**



26-08442-01  
19cm/7 1/2"



26-08442-02  
19cm/7 1/2"



**Randall**

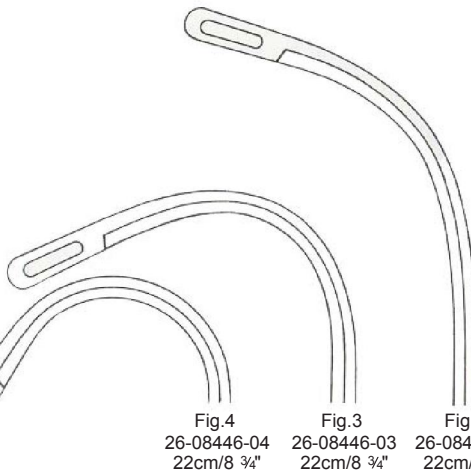


Fig.4  
26-08446-04  
22cm/8 3/4"

Fig.3  
26-08446-03  
22cm/8 3/4"

Fig.2  
26-08446-02  
22cm/8 3/4"

Fig.1  
26-08446-01  
23cm/9"



**Gray**  
26-08450-00

Fig.1  
26-08450-01  
22cm/8 3/4"

Fig.2  
26-08450-02  
23cm/9"

Set of 2 pieces



**Gray**  
26-08454-00

Fig.1  
26-08454-01  
22cm/8 3/4"

Fig.2  
26-08454-02  
23cm/9"

Set of 2 pieces



**Desjardins**  
26-08458-21  
21cm/8 1/4"

Gall duct and  
cystic forceps



**Nissen**  
26-08462-21  
21.5cm/8 1/2"



Straight **Blake** Curved  
26-08466-20 20cm/8" 26-08467-20



Straight **Mayo-Blake** Curved  
26-08472-20 20cm/8" 26-08473-20



**Czerny**  
26-08476-24  
24.5cm/9 3/4"



**Desjardins**  
23cm/9"



Fig. 1  
26-08480-01



Fig. 2  
26-08480-02



mm	
1	26-08488-01
2	26-08488-02
3	26-08488-03
4	26-08488-04
5	26-08488-05
6	26-08488-06
7	26-08488-07
8	26-08488-08
9	26-08488-09
10	26-08488-10
11	26-08488-11
12	26-08488-12
13	26-08488-13

26-08488-00  
setof9pieces

26-08488-03 to26-08488-11

26-08490-00  
setof9piecesincanvaspocket







**Mayo**  
26-08500-28  
28cm/11"

Malleable



**Mayo**  
26.5cm/10 1/2"



Fig.1  
26-08504-01



Fig.2  
26-08504-02



Fig.3  
26-08504-03



**Moore**  
26-08506-28  
28cm/11"

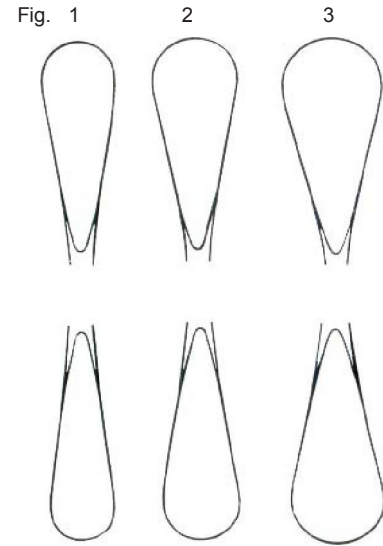
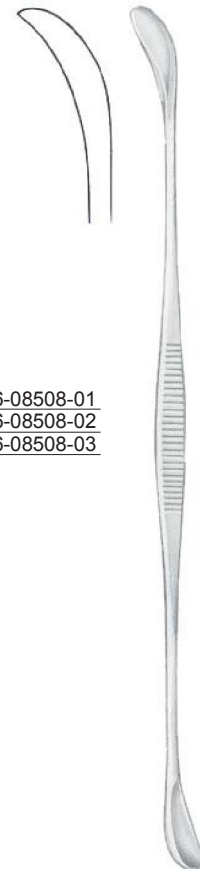


Fig.  
1 26-08508-01  
2 26-08508-02  
3 26-08508-03



**Fergusson**  
24cm/9 1/2"



**Young**  
26-08510-21  
21cm/8 1/4"



**Young**  
26-08512-22  
22cm/8 3/4"



**Young**  
26-08514-21  
21cm/8 1/4"



**Young**  
26-08514-22  
22cm/8 3/4"



**Millin**  
26-08516-23  
23cm/9"



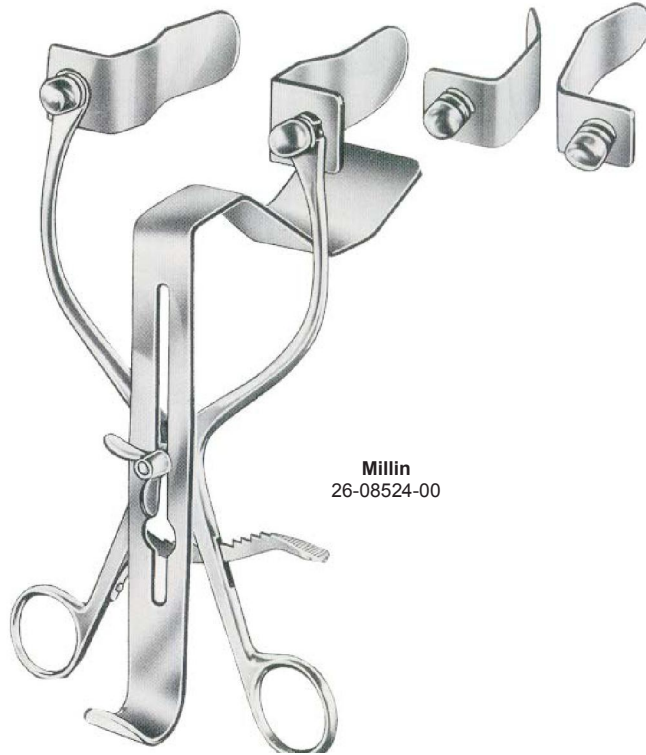
**Millin**  
26-08518-23  
23cm/9"



**Millin**  
26-08520-23  
23cm/9"



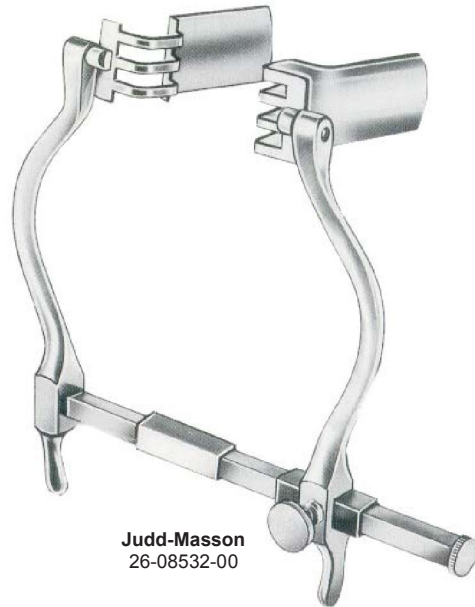
**Millin**  
26-08522-24  
24cm/9 1/2"



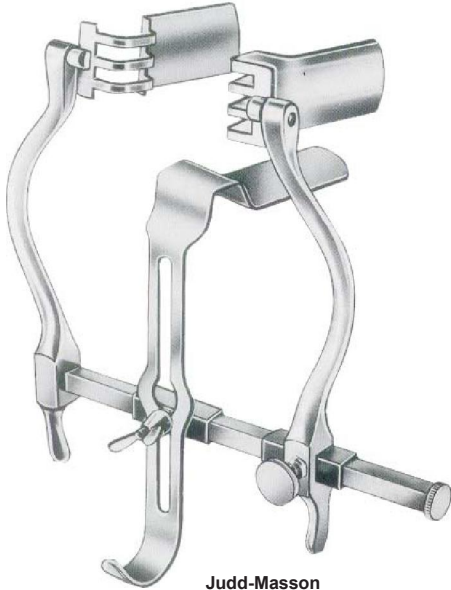
**Millin**  
26-08524-00



**Legueu**  
26-08528-00



**Judd-Masson**  
26-08532-00



**Judd-Masson**  
26-08536-00



**Thomson-Walker**  
26-08540-00



**Legueu**  
26-08544-27  
27cm/10 1/2"  
35mm



**Kocher**  
26-08548-26  
26cm/10 1/4"  
67mm

**mm Ø**  
**Charriere (French)**

2 2/3	8
3	9
3 1/3	10
3 2/3	11
4	12
4 1/3	13
4 2/3	14
5	15
5 1/3	16
5 2/3	17
6	18
6 1/3	19
6 2/3	20
7	21
7 1/3	22
7 2/3	23
8	24
8 1/3	25
8 2/3	26
9	27
9 1/3	28
9 2/3	29
10	30
10 1/3	32
11 2/3	34
12	36



**VanBuren**  
Charriere(French)  
No.8-36  
26-08552-08  
26-08552-36  
28cm/11"  
InCanvasPouch  
26-08552-50  
Setof 6  
6Pcs.26-08552-14/24  
26-08552-24  
  
26-08552-60  
Setof 12  
12Pcs26-08552-08/30  
26-08552-36

26-08552-08
26-08552-10
26-08552-12
26-08552-14
26-08552-16
26-08552-18
26-08552-20
26-08552-22
26-08552-24
26-08552-26
26-08552-28
26-08552-30
26-08552-32
26-08552-34
26-08552-36



**Dittel**  
Charriere(French)  
No.8-30  
26-08554-08  
26-08554-30  
19.5cm/7 1/2"

**Straight**

26-08554-08
26-08554-09
26-08554-10
26-08554-11
26-08554-12
26-08554-13
26-08554-14
26-08554-15
26-08554-16
26-08554-17
26-08554-18
26-08554-19
26-08554-20
26-08554-21
26-08554-22
26-08554-23
26-08554-24
26-08554-25
26-08554-26
26-08554-27
26-08554-28
26-08554-29
26-08554-30

**Curved**

26-08556-08
26-08556-09
26-08556-10
26-08556-11
26-08556-12
26-08556-13
26-08556-14
26-08556-15
26-08556-16
26-08556-17
26-08556-18
26-08556-19
26-08556-20
26-08556-21
26-08556-22
26-08556-23
26-08556-24
26-08556-25
26-08556-26
26-08556-27
26-08556-28
26-08556-29
26-08556-30



**Dittel**  
Charriere(French)  
No.8-30  
26-08556-08  
26-08556-30  
34.5cm/13 1/2"



Formen



26-08560-06  
26-08560-24

	mmØ	Charriere (French)	
26-08560-06	2	6	26-08562-06
26-08560-07	2 $\frac{1}{3}$	7	26-08562-07
26-08560-08	2 $\frac{2}{3}$	8	26-08562-08
26-08560-09	3	9	26-08562-09
26-08560-10	3 $\frac{1}{3}$	10	26-08562-10
26-08560-11	3 $\frac{2}{3}$	11	26-08562-11
26-08560-12	4	12	26-08562-12
26-08560-13	4 $\frac{1}{3}$	13	26-08562-13
26-08560-14	4 $\frac{2}{3}$	14	26-08562-14
26-08560-15	5	15	26-08562-15
26-08560-16	5 $\frac{1}{3}$	16	26-08562-16
26-08560-17	5 $\frac{2}{3}$	17	26-08562-17
26-08560-18	6	18	26-08562-18
26-08560-19	6 $\frac{1}{3}$	19	26-08562-19
26-08560-20	6 $\frac{2}{3}$	20	26-08562-20
26-08560-21	7	21	26-08562-21
26-08560-22	7 $\frac{1}{3}$	22	26-08562-22
26-08560-23	7 $\frac{2}{3}$	23	26-08562-23
26-08560-24	8	24	26-08562-24

ForWomen



CatheterIntroducingInstruments

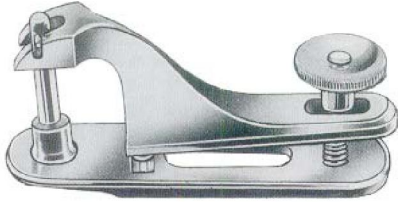


**Guyon**  
26-08566-39  
39cm/15 1/2"



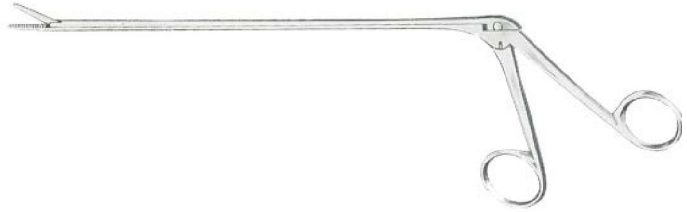
**Guyon**  
26-08568-35  
35cm/13 3/4"

### CircumcisionInstruments



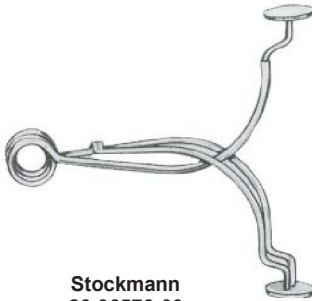
26-08572-08	08mm
26-08572-11	11mm
26-08572-13	13mm
26-08572-16	16mm
26-08572-21	21mm
26-08572-26	26mm
26-08572-32	32mm

### ForeignBodyForceps

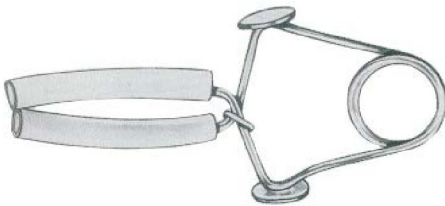


**Mathieu**  
26-08584-20

### PenisClamps



**Stockmann**  
26-08576-00



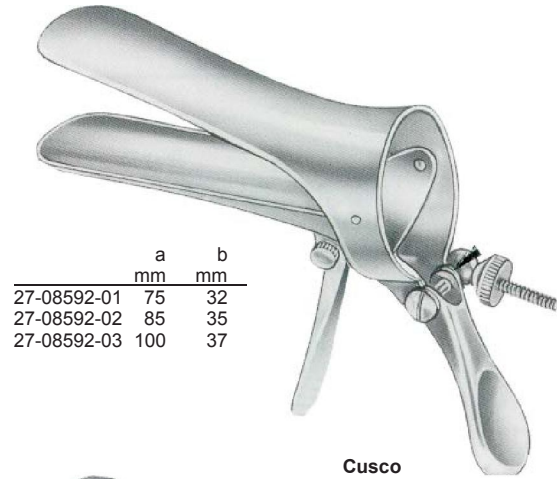
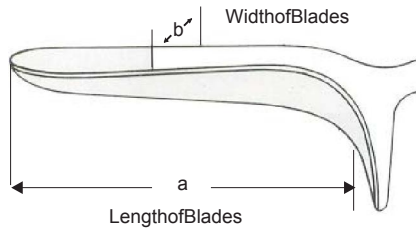
**Strauss**  
26-08580-00

### SecretionScoop



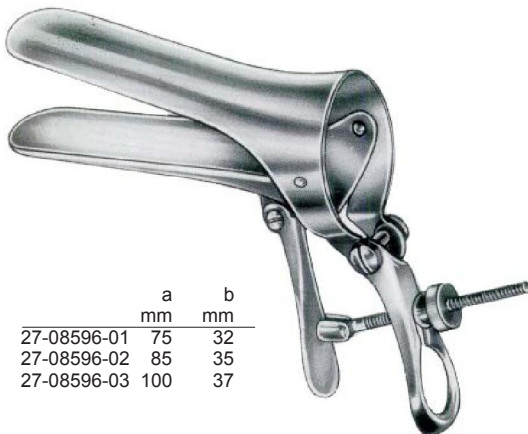
**Guttman**  
26-08588-26  
26.5cm/10 1/2"

Scheme of Dimensions for Specula



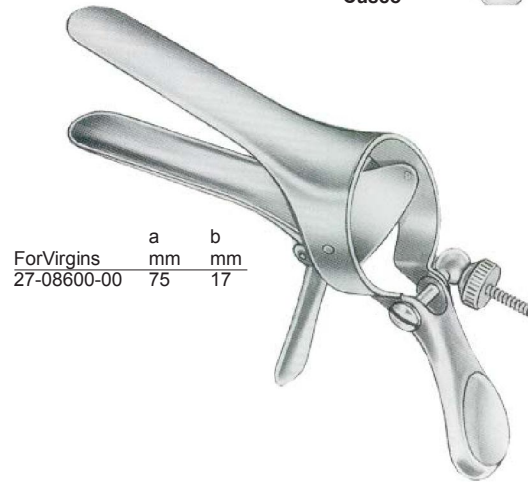
	a mm	b mm
27-08592-01	75	32
27-08592-02	85	35
27-08592-03	100	37

Cusco



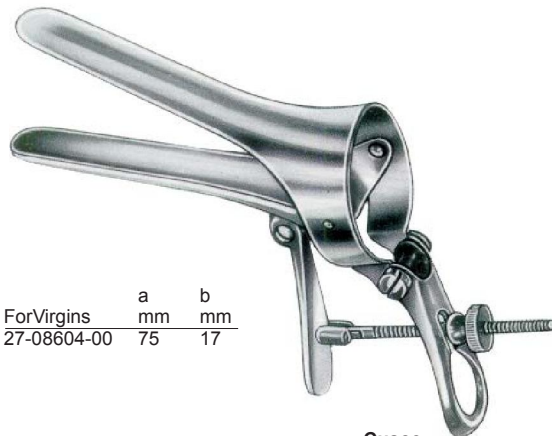
	a mm	b mm
27-08596-01	75	32
27-08596-02	85	35
27-08596-03	100	37

Cusco



For Virgins	a mm	b mm
27-08600-00	75	17

Cusco



For Virgins	a mm	b mm
27-08604-00	75	17

Cusco



	a mm	b mm
27-08608-01	90	23-25
27-08608-02	100	25-27
27-08608-03	110	27-30

Cusco  
Swiss Pattern



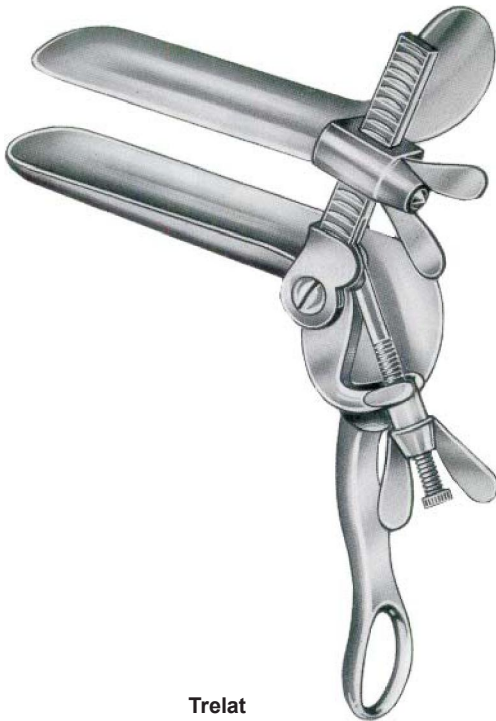
**Collin-Landau**

	a mm	b mm
27-08612-01	85	30
27-08612-02	100	35
27-08612-03	110	40



**Collin**

	a mm	b mm
27-08616-01	85	30
27-08616-02	100	35
27-08616-03	110	40



**Trelat**

	a mm	b mm
27-08620-01	85	33
27-08620-02	95	35
27-08620-03	115	43



**Grave(Standard)**

	a mm	b mm
27-08624-01	75	20
27-08624-02	95	30
27-08624-03	115	35
27-08624-04	125	35

**Black**

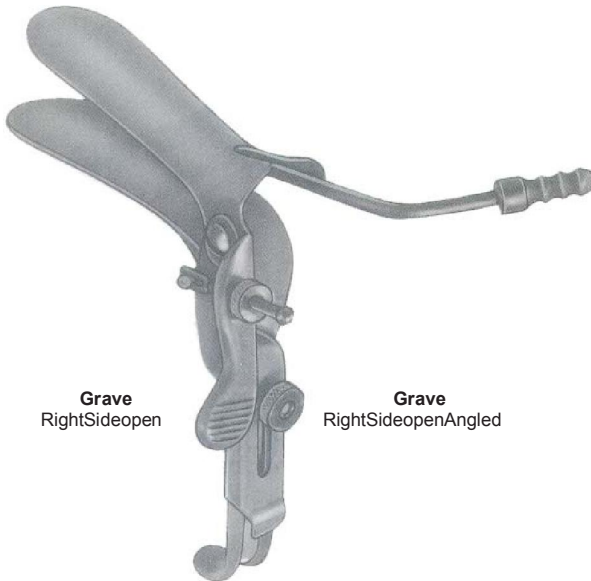


Grave	a mm	b mm
27-08628-01	75	20
27-08628-02	95	30
27-08628-03	115	35

**Insulated**



Grave	a mm	b mm
Angled135° 27-08632-00	101	35

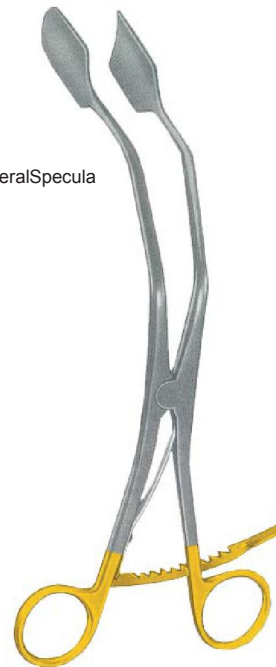


**Grave**  
RightSideopen

**Grave**  
RightSideopenAngled

	a mm	b mm
27-08636-01	101	35
27-08636-02		

**LateralSpecula**



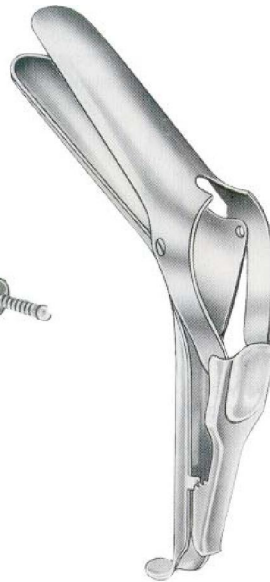
27-08640-00





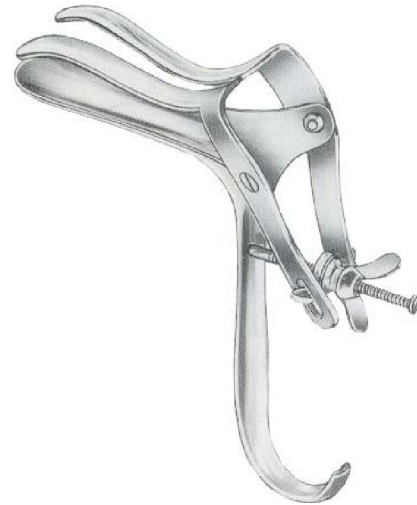
**Pederson**

	a mm	b mm
27-08644-01	75	13
27-08644-02	100	22
27-08644-03	120	25



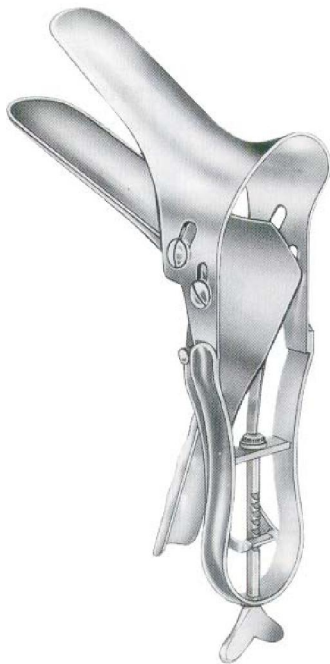
**Semm**

	a mm	b mm
27-08648-01	90	14/18
27-08648-02	100	17/20
27-08648-03	100	25/30



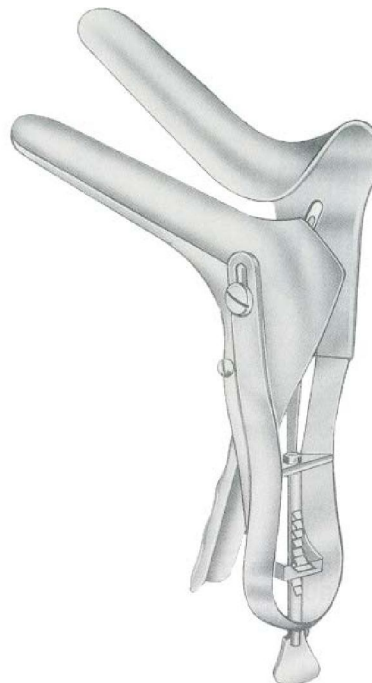
**Nott**

	a mm	b mm
27-08652-01	90	30
27-08652-02	110	30



**Seyffert**

	a mm	b mm
27-08656-01	100	17
27-08656-02	110	33



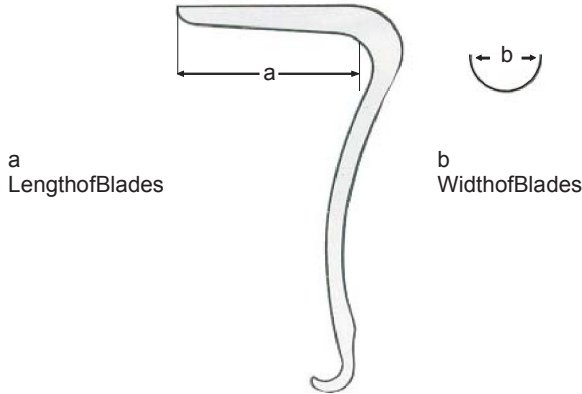
**OneSideopen**

**Seyffert**

	a mm	b mm
27-08658-02	110	33



Scheme of Dimensions for Specula



**Sims**  
 27-08662-01 63x32mm  
 27-08662-02 76x32mm  
 27-08662-03 89x38mm



**Sims**

	Fig	a mm	b mm
27-08666-01	1	60	25+30
27-08666-02	2	70	30+35
27-08666-03	3	80	35+40



**Jackson**

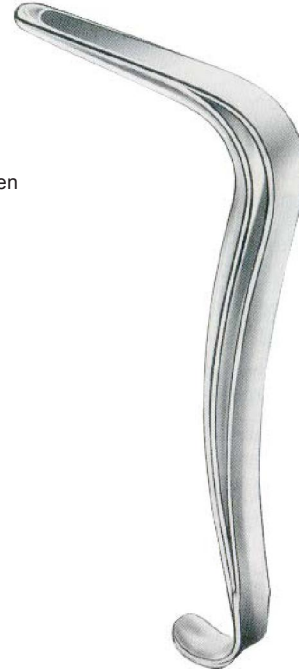
	Fig.	a mm	b mm
27-08670-01	1	75X40	
27-08670-02	2	90X40	
27-08670-03	3	100X40	



**Eastman**

	Fig.	a mm	b mm
27-08674-01	1	76	38
27-08674-02	2	89	38
27-08674-03	3	101	38

Forchildren



Set

**Kristeller**  
27-08678-00  
70x15mm



**Kristeller**  
(Standard)

Specula

Retractor

Setof1speculaand1retractor

- Fig.1 27-08682-00  
Fig.2 27-08684-00  
Fig.3 27-08686-00

Specula

	Fig.	a mm	b mm
27-08682-01	1	70	27
27-07684-01	2	75	30
27-07686-01	3	90	36

Retractors

	Fig.	a mm	b mm
27-08682-02	1	75	23
27-07684-02	2	80	26
27-07686-02	3	95	32



With conically shaped blades for virgins

Kristeller

Set of 1 specula and 1 retractor

Fig. 00 27-08690-00

Fig. 0 27-08692-00

Specula

	Fig.	a		b	
		mm	mm	mm	mm
27-08690-01	00	110	18		
27-08692-01	0	110	21		

Retractors

	Fig.	a		b	
		mm	mm	mm	mm
27-08690-02	00	115	14		
27-08692-02	0	115	17		



With extra long blades

Kristeller (Standard)

Set of 1 specula and 1 retractor

Fig. 1 27-08696-00

Fig. 2 27-08698-00

Fig. 3 27-08700-00

Specula

	Fig.	a		b	
		mm	mm	mm	mm
27-08696-01	1	110	27		
27-08698-01	2	110	30		
27-08700-01	3	110	36		

Retractors

	Fig.	a		b	
		mm	mm	mm	mm
27-08696-02	1	115	23		
27-08698-02	2	115	26		
27-08700-02	3	115	32		



With flat hollow specula

**Kristeller**

Set of 1 specula and 1 retractor

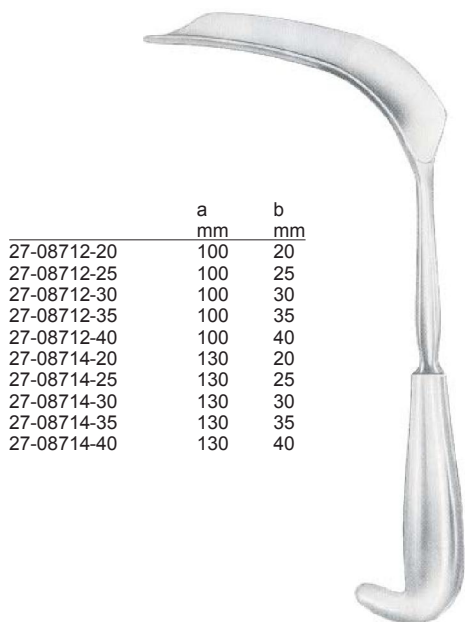
Fig.1 27-08704-00  
Fig.2 27-08706-00  
Fig.3 27-08708-00

Specula

	Fig.	a	b
		mm	mm
27-08704-01	1	110	27
27-08706-01	2	110	30
27-08708-01	3	110	36

Retractors

	Fig.	a	b
		mm	mm
27-08704-02	1	115	23
27-08706-02	2	115	26
27-08708-02	3	115	32



	a	b
	mm	mm
27-08712-20	100	20
27-08712-25	100	25
27-08712-30	100	30
27-08712-35	100	35
27-08712-40	100	40
27-08714-20	130	20
27-08714-25	130	25
27-08714-30	130	30
27-08714-35	130	35
27-08714-40	130	40

**Matzenauer**



**Braun**  
27-08718-18  
18cm/7"  
56x13mm



**Braun**  
27-08722-18  
18cm/7"  
60x10mm



**Ulrich**  
27-08726-19  
19.5cm/7 1/2"  
80x20mm



27-08730-19  
19cm/7 1/2"  
85x17mm



Set

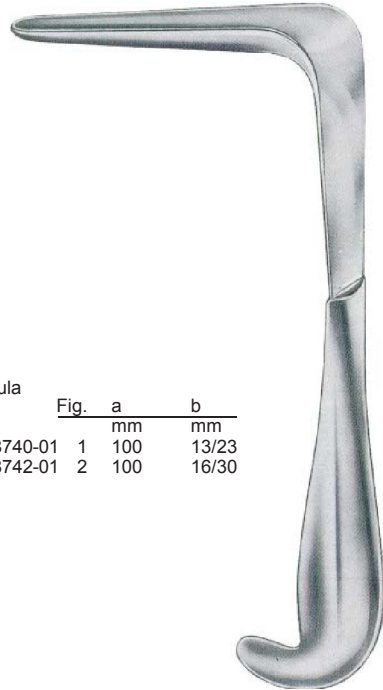
27-08734-00 Fig.1  
27-08736-00 Fig.2

Specula

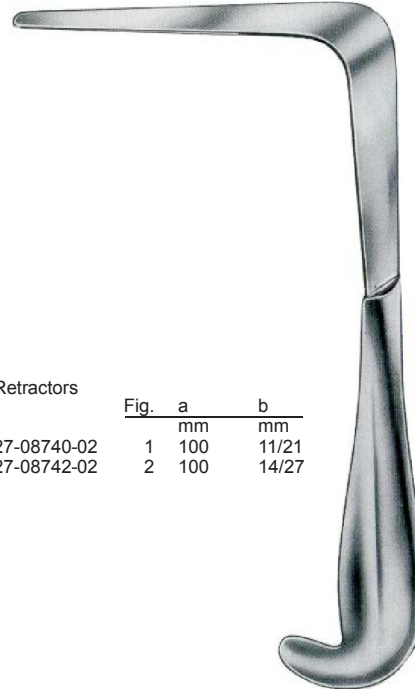
Fig.	a		b	
	mm	mm	mm	mm
27-08734-01	1	70	40	
27-08736-01	2	90	40	

Retractors

Fig.	a		b	
	mm	mm	mm	mm
27-08734-02	1	70	33	
27-08736-02	2	90	33	



Mathieu

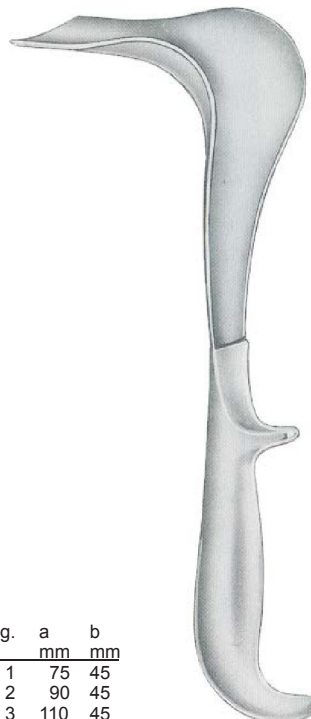


Mathieu

Specula	Fig.	mm	
		a	b
27-08740-01	1	100	13/23
27-08742-01	2	100	16/30

Retractors	Fig.	mm	
		a	b
27-08740-02	1	100	11/21
27-08742-02	2	100	14/27

Set	
Fig.1	27-08740-00
Fig.2	27-08742-00



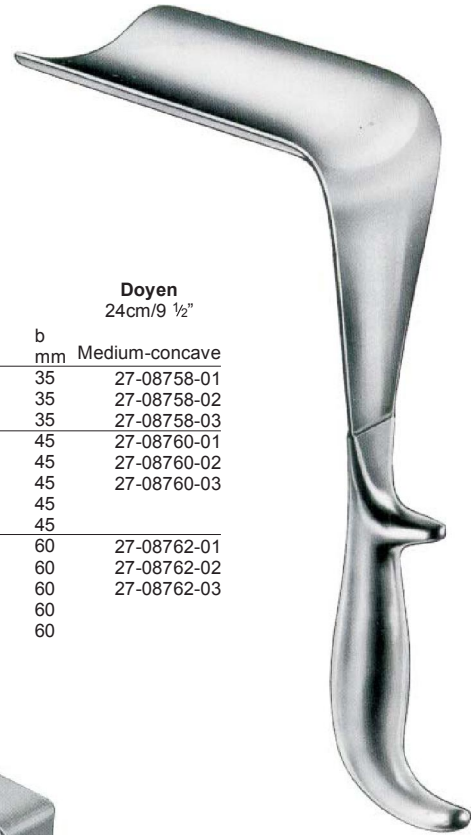
Doyen

Fig.	mm	
	a	b
27-08746-01	75	45
27-08746-02	90	45
27-08746-03	110	45





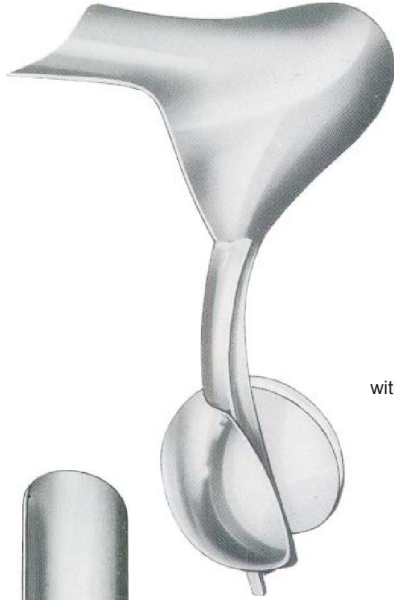
Doyen 24cm/9 1/2"		Fig.	a mm	b mm	Doyen 24cm/9 1/2"	
slightly-concave	Medium-concave					
27-08750-01	1	55	35	27-08758-01		
27-08750-02	2	85	35	27-08758-02		
27-08750-03	3	115	35	27-08758-03		
27-08752-01	1	55	45	27-08760-01		
27-08752-02	2	85	45	27-08760-02		
27-08752-03	3	115	45	27-08760-03		
27-08752-04	4	160	45			
27-08752-05	5	180	45			
27-08754-01	1	55	60	27-08762-01		
27-08754-02	2	85	60	27-08762-02		
27-08754-03	3	115	60	27-08762-03		
27-08754-04	4	160	60			
27-08754-05	5	180	60			



**Doyen**  
25cm/10"

	a mm	b mm
27-08766-01	60	30
27-08766-02	70	30
27-08766-03	80	30





**Auvard**  
with removable weight  
27-08770-01  
80x38mm  
27-08770-02  
105x42mm



**Auvard**  
with fixed weight  
27-08772-01  
70x38mm  
27-08772-02  
102x45mm



**Landau**

	a mm	b mm
27-08776-01	100	28
27-08776-02	100	38



**Breisky**

	a mm	b mm
27-08780-20	100	20
27-08780-25	100	25
27-08780-30	100	30
27-08780-35	100	35
27-08780-40	100	40
27-08782-20	130	20
27-08782-25	130	25
27-08782-30	130	30
27-08782-35	130	35
27-08782-40	130	40
27-08784-20	160	20
27-08784-25	160	25
27-08784-30	160	30
27-08784-35	160	35
27-08784-40	160	40
27-08786-20	180	20
27-08786-25	180	25
27-08786-30	180	30
27-08786-35	180	35
27-08786-40	180	40



**Scherbak**  
27-08790-00

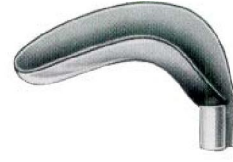
Complete



27-08790-01  
80x30mm



27-08790-02  
85x35mm



27-08790-03  
90x40mm



27-08790-04  
55x40/60mm



27-08790-05  
70x45/70mm



	Fig.	a mm	b mm
27-08794-01	1	45	17
27-08794-02	2	90	37
27-08794-03	3	90	45



**O'Sullivan-O'Connor**  
27-08794-00  
Complete



Hegar

mmØ		mmØ	
1.0	27-08798-01	1.5	27-08800-01
2.0	27-08798-02	2.5	27-08800-02
3.0	27-08798-03	3.5	27-08800-03
4.0	27-08798-04	4.5	27-08800-04
5.0	27-08798-05	5.5	27-08800-05
6.0	27-08798-06	6.5	27-08800-06
7.0	27-08798-07	7.5	27-08800-07
8.0	27-08798-08	8.5	27-08800-08
9.0	27-08798-09	9.5	27-08800-09
10.0	27-08798-10	10.5	27-08800-10
11.0	27-08798-11	11.5	27-08800-11
12.0	27-08798-12	12.5	27-08800-12
13.0	27-08798-13	13.5	27-08800-13
14.0	27-08798-14	14.5	27-08800-14
15.0	27-08798-15	15.5	27-08800-15
16.0	27-08798-16	16.5	27-08800-16
17.0	27-08798-17	17.5	27-08800-17
18.0	27-08798-18	18.5	27-08800-18
19.0	27-08798-19	19.5	27-08800-19
20.0	27-08798-20		
21.0	27-08798-21		
22.0	27-08798-22		
23.0	27-08798-23		
24.0	27-08798-24		
25.0	27-08798-25		
26.0	27-08798-26		
27.0	27-08798-27		
28.0	27-08798-28		
29.0	27-08798-29		
30.0	27-08798-30		

Piecesperset		set
27-08798-50	14	4.0-17.0mm
27-08798-60	26	1.0-26.0mm



Hegar

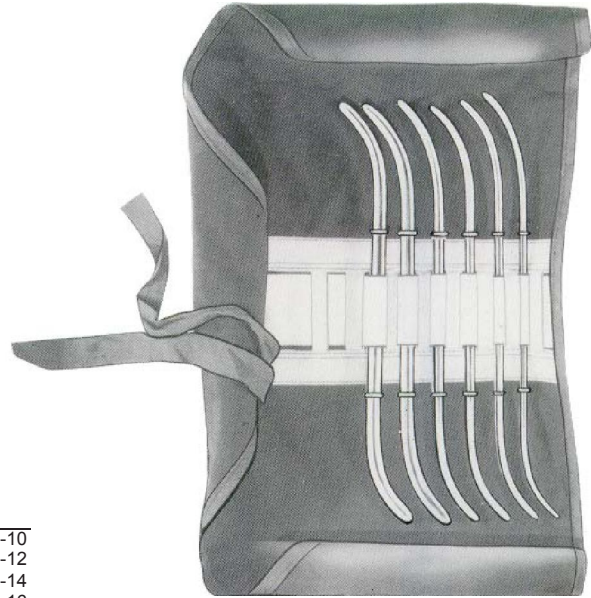
Ø mm	
1.0/2.0	27-08804-02
3.0/4.0	27-08804-04
5.0/6.0	27-08804-06
7.0/8.0	27-08804-08
9.0/10.0	27-08804-10
11.0/12.0	27-08804-12
13.0/14.0	27-08804-14
15.0/16.0	27-08804-16
17.0/18.0	27-08804-18
19.0/20.0	27-08804-20
21.0/22.0	27-08804-22
23.0/24.0	27-08804-24
25.0/26.0	27-08804-26

Piecesperset		set
27-08804-00	08	3.0/4.0-17.0/18.0mm
27-08806-00	13	1.0/2.0-25.0/26.0mm



**Hank**  
27-08810-00

Fig.	mm	
9/10	4.5/5	27-08810-10
11/12	5.5/6	27-08810-12
13/14	6.5/7	27-08810-14
15/16	7.5/8	27-08810-16
17/18	8.5/9	27-08810-18
19/20	9.5/10	27-08810-20

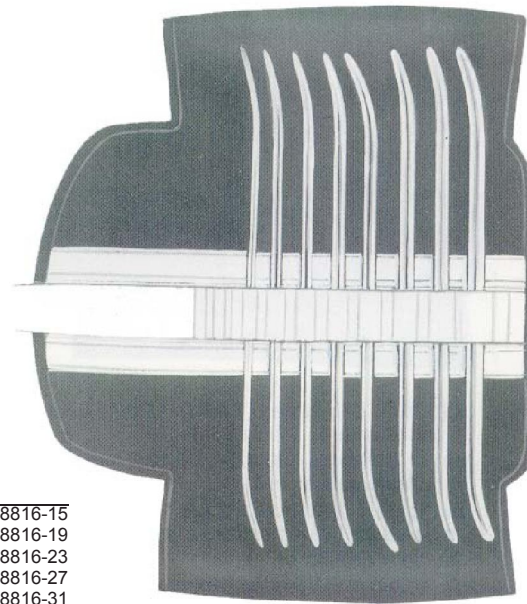


**Set**  
27-08810-00



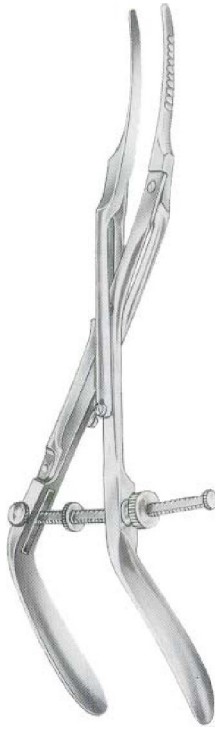
**Pratt**

Fig.	mm	
13/15	4.5/5.0	27-08816-15
17/19	5.6/6.3	27-08816-19
21/23	7.0/7.6	27-08816-23
25/27	8.3/9.0	27-08816-27
29/31	9.6/10.3	27-08816-31
33/35	11.0/11.6	27-08816-35
37/39	12.3/13.0	27-08816-39
41/43	13.6/14.3	27-08816-43



**Set**  
27-08816-00





**Goodell**  
 27-08820-34  
 34cm/13 1/2"

BlackInsulated



**Kogan-Laser**  
 28cm/11"



27-08822-28



27-08824-28



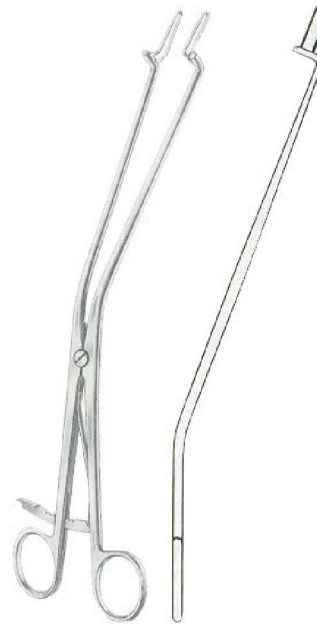
27-08826-28  
 28cm/11"



**Kogan**  
 27-08830-24  
 24cm/9 1/2"



**Kogan**  
 27-08832-24  
 24cm/9 1/2"



**Kogan**  
 28cm/11"



27-08836-28



27-08838-28



## Uterine Depressor



**Sims**  
32cm/12 ½"



**Martin(Simpson)**  
32cm/12 ½"



**Valleix**  
27-08858-25  
25cm/10"



**Collin**  
27-08862-28  
28cm/11"



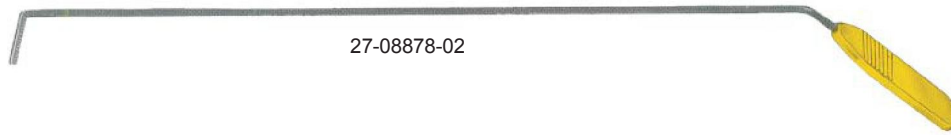
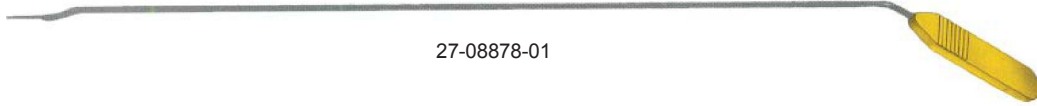
**Braun**  
27-08866-28  
28cm/11"

Rigid	cm	cm
	27-08842-32	27-08850-32

Malleable	cm/in	cm/in
	27-08844-32	27-08852-32
	27-08846-32	27-08854-32

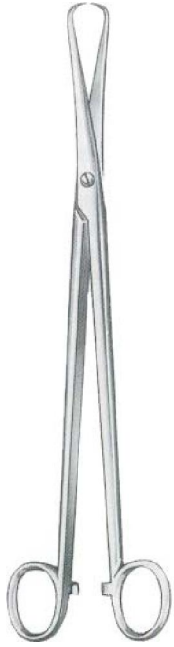


## Measuring Instruments

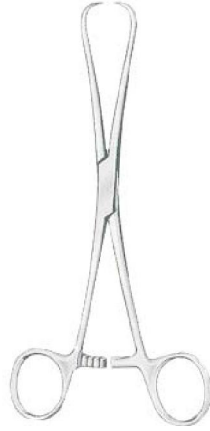


## Hooks





**Martin**  
 27-08886-27  
 27cm/10 1/2"



**Staude-Moore**  
 27-08890-17  
 17cm/6 3/4"



**Barrett**  
 27-08894-18  
 18cm/7"



**Schroeder**  
 27-08898-25  
 25cm/10"



**Braun**  
 27-08902-25  
 25cm/10"



**Collin-Pozzi**  
 27-08906-25  
 25cm/10"



**Pozzi**  
 27-08910-25  
 25.5cm/10 1/4"

StrongPattern



**Duplay**  
 27-08914-28  
 28cm/11"



**Skene**  
27-08918-24  
24cm/9 1/2"



AmniotomefortheamniionBladder

**Beacham**  
27-08922-26  
26cm/10 1/4"



**Czerny**  
27-08926-20  
20.5cm/8 1/4"



27-08930-26  
26cm/10 1/4"



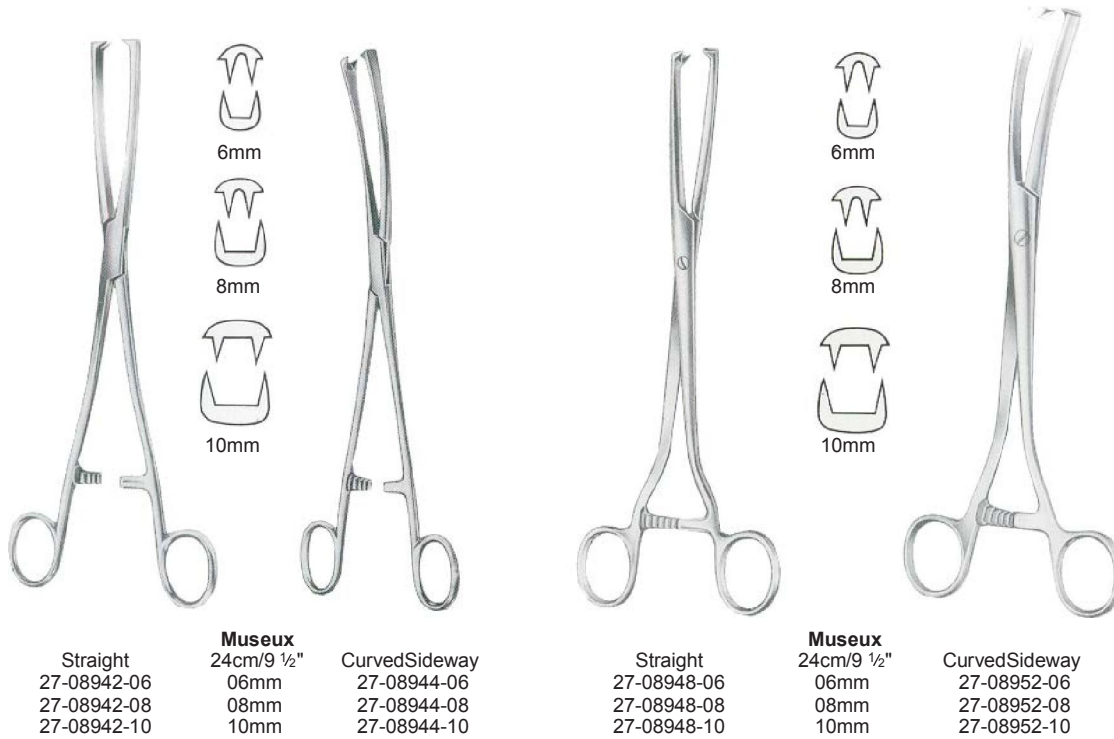
**Schroeder**  
27-08934-20 20cm/8"  
27-08934-24 24cm/9 1/2"  
Straight



**Schroeder**  
27-08936-20  
27-08936-24  
Curved on Flat



**Schroeder**  
27-08938-20  
27-08938-24  
Curved Sideway







**Teale**  
27-08964-24  
24cm/9 1/2"



**Iowa**  
27-08968-26  
26cm/10 1/4"



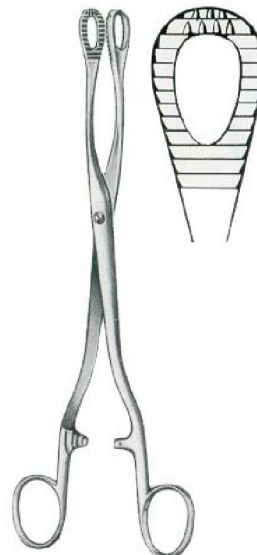
**Jacobs**  
Straight 27-08972-21  
CurvedSideway 27-08974-21  
21cm/8 1/4"



**Kelly**  
27-08978-32  
32cm/12 1/2"



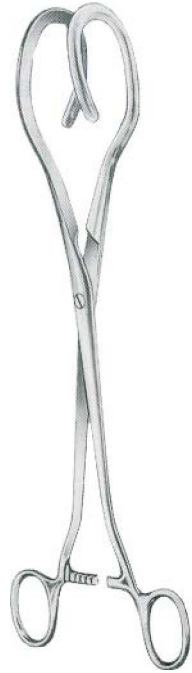
**Heywood-Smith**  
27-08982-20  
20cm/8"



**Heywood-Smith**  
27-08986-25  
25cm/10"



**Noto**  
27-08990-27  
27cm/10 1/2"



**Dartigues**  
27-08994-27  
27cm/10 ½"



**Somer**  
27-08998-23  
23cm/9"



**Collin**  
27-09002-25  
25cm/10"



**Doyen**  
27-09006-1818cm/7"  
27-09006-2020cm/8"

Ovarian Forceps



**Ayre**  
27-09010-23  
23cm/9"



**Simon**  
27-09014-22  
22cm/8 3/4"



**Simon**  
27-09016-22  
22cm/8 3/4"



**Emmet**  
22cm/8 3/4"



27-09020-01



27-09020-02



27-09020-03



27-09020-04



27-09020-05



**Doyen**  
27-09024-17  
17cm/6 3/4"



**Doyen**  
27-09026-17  
17cm/6 3/4"



**Segond**  
27-09030-27  
27cm/10 1/2"

SecretionSpoon



27-09034-27  
 27cm/10 1/2"



**Muenchen**  
 27cm/10 1/2"



27-09038-04  
 4mm



27-09038-05  
 5mm



**Randall**  
 27-09042-24  
 24cm/9 1/2"

4mmØ



**Novak**  
 23cm/9"

- 27-09046-01  
1mm
- 27-09046-02  
2mm
- 27-09046-03  
3mm
- 27-09046-04  
4mm



**Novak-Schoeckaert**  
 27-09050-24  
 24cm/9"



**Kevorkian**  
 27-09054-30  
 30cm/12"

malleable  
 27-09056-30  
 30cm/12"



**Kevorkian** malleable  
 27-09060-30 27-09062-30  
 30cm/12" 30cm/12"



**Townsend** malleable  
 27-09066-30 27-09068-30  
 31cm/12 1/4" 31cm/12 1/4"



**Duncan**  
 27-09072-31  
 31cm/12 1/4"



**Duncan**  
 27-09074-31  
 31cm/12 1/4"



**Gellhorn**  
 27-09078-23  
 23cm/9"



**Thoms-Gaylor**  
 27-09082-24  
 24cm/9 1/2"



**Schubert**  
 27-09086-21 21cm/8 1/4"  
 27-09086-29 29cm/11 1/4"



**Schubert**  
 27-09090-26  
 26cm/10 1/4"



**Tischler**  
 27-09094-27  
 27cm/10 1/2"



**VanDoren**  
 27-09098-25  
 25cm/10"





Fig.1

Fig.2

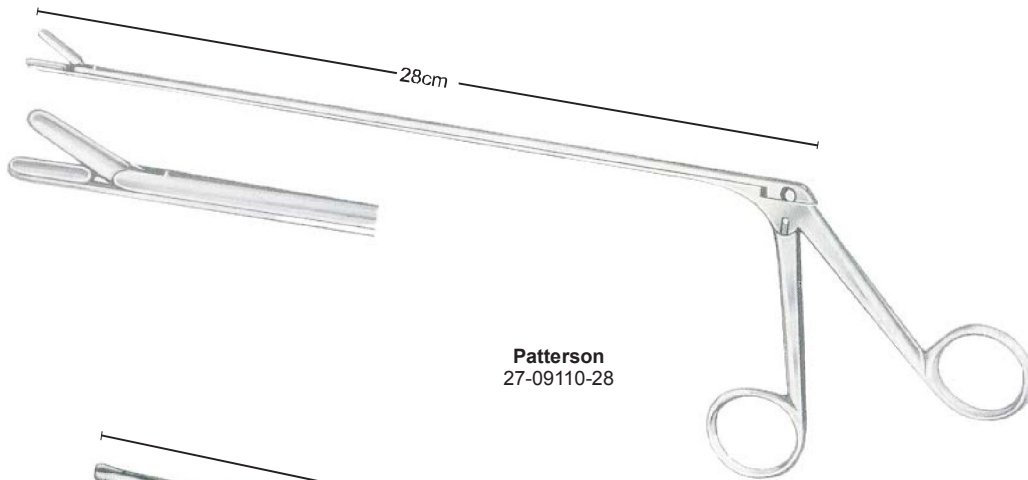
**Schumacher**

Fig.1 27-09102-01 24cm/9 1/2"  
 Fig.2 27-09102-02 24cm/9 1/2"

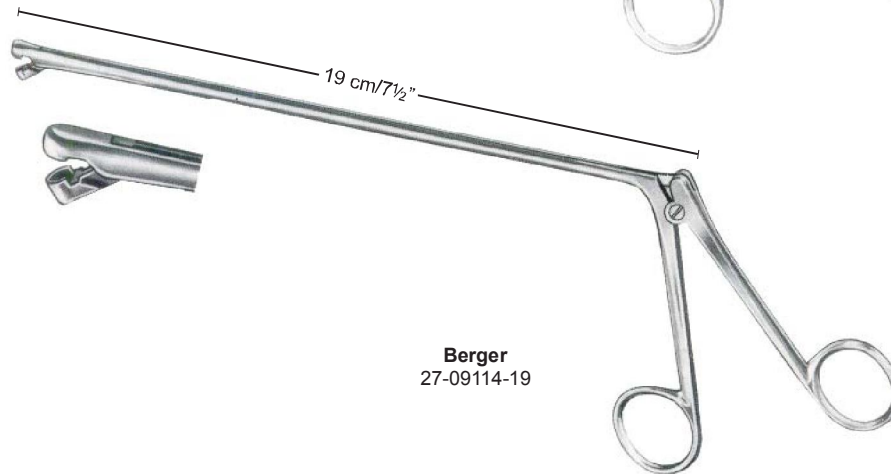


**Faure**

27-09106-21  
 21cm/8 1/4"



**Patterson**  
 27-09110-28



**Berger**  
 27-09114-19



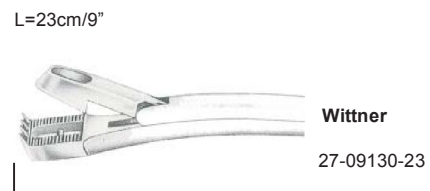
- 27-09118-20 L=20cm/8"
- 27-09118-25 L=25cm/10"
- 27-09118-30 L=30cm/12"
- 27-09118-35 L=35cm/14"
- 27-09118-40 L=40cm/16"

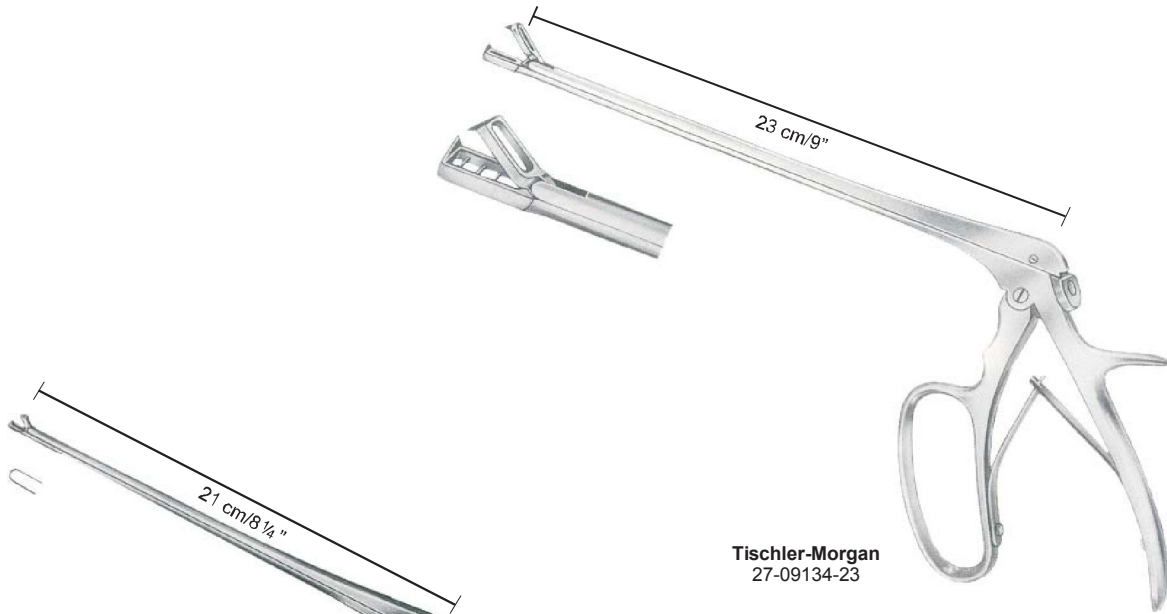


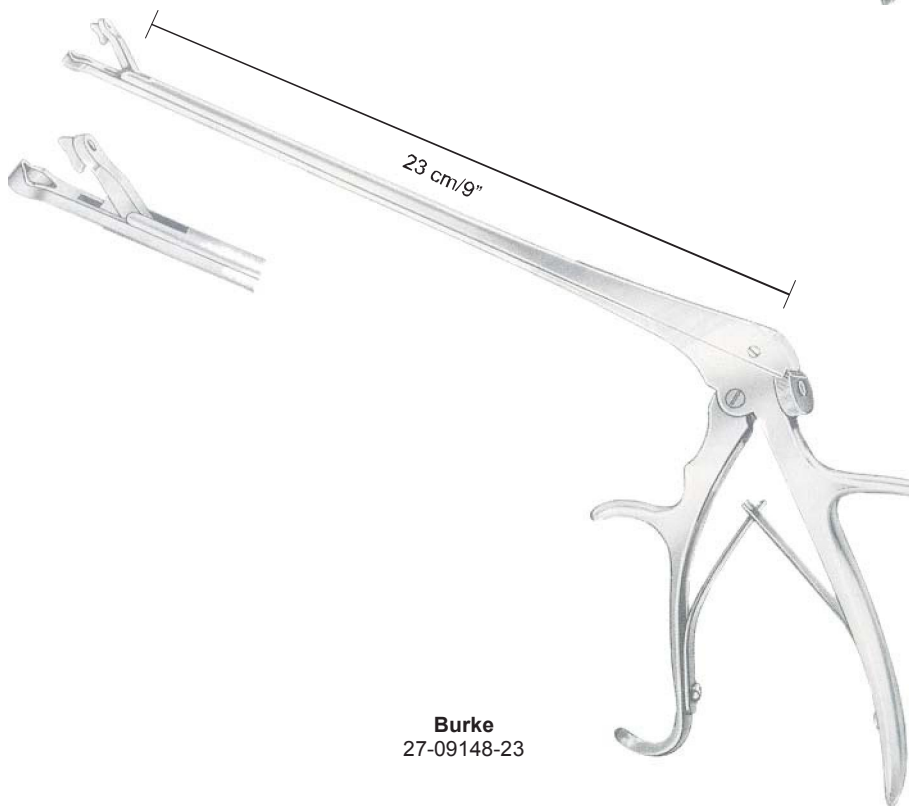
27-09124-04      27-09124-06  
4mm                      6mm



27-09128-24











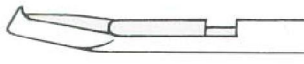

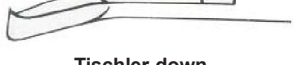






Handle

Townsend



Tipwithtube

		Completeinstrument	Tip,only
	<b>Tischier</b>	27-09152-00	27-09152-01
	<b>Kevorkian</b>	27-09154-00	27-09154-01
	<b>Mini-Townsend</b>	27-09156-00	27-09156-01
	 <b>Tischler-up</b>	27-09158-00	27-09158-01
	 <b>Tischler-down</b>	27-09160-00	27-09160-01
	 <b>Mini-Townsend-up</b>	27-09162-00	27-09162-01
	 <b>Mini-Townsend-down</b>	27-09164-00	27-09164-01



**Schroeder**  
30cm/12"

SharpRigid



Fig.1  
27-09168-01  
27-09170-01



Fig.2  
27-09168-02  
27-09170-02



Fig.3  
27-09168-03  
27-09170-03

Schroeder  
Simon



Fig.4  
27-09168-04  
27-09170-04



Fig.5  
27-09168-05  
27-09170-05



Fig.6  
27-09168-06  
27-09170-06

Schroeder  
Simon



**Simon**  
25cm/10"



**Gourdet**  
28cm/11"



Fig.1  
27-09174-01  
6mm



Fig.2  
27-09174-02  
8mm



Fig.3  
27-09174-03  
10mm



Fig.4  
27-09174-04  
12mm



Fig.5  
27-09174-05  
14mm





**Thomas**



Fig.1  
27-09177-01



Fig.2  
27-09177-02



Fig.3  
27-09177-03



Fig.4  
27-09177-04



Fig.5  
27-09177-05



Fig.6  
27-09177-06



**Greene**

27-09180-10  
10mm

27-09180-12  
12mm

27-09180-14  
14mm



**Collin**  
27-09184-30  
30cm/12"



**Heaney**  
27-09188-24  
24cm/9 1/2"



**Heaney**  
27-09192-24  
24cm/9 1/2"



**Milan**  
28.5cm/11 1/4"

Malleable

27-09196-05  
5mmO/

27-09196-07  
7mmO/

27-09196-09  
9mmO/

Rigid

27-09198-05  
5mmO/

27-09198-07  
7mmO/

27-09198-09  
9mmO/



28cm/11"

HoseConnectingPiece

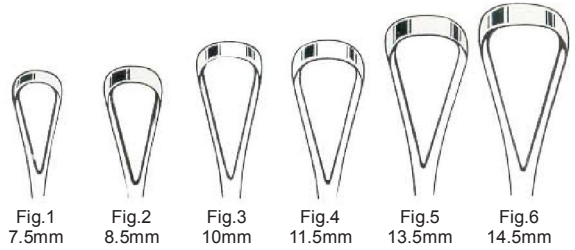


27-09206-00

- |             |        |
|-------------|--------|
|             | Ø      |
| 27-09202-04 | 4.0mm  |
| 27-09202-06 | 6.0mm  |
| 27-09202-08 | 8.0mm  |
| 27-09202-10 | 10.0mm |
| 27-09202-12 | 12.0mm |
| 27-09202-14 | 14.0mm |
| 27-09202-16 | 16.0mm |



**Sims**  
25cm/10"

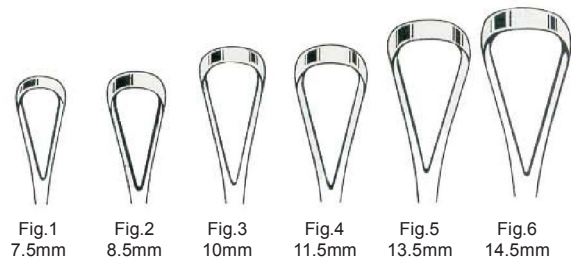


Malleable		Rigid	
Sharp	Blunt	Sharp	Blunt

Fig.1	27-09210-01	27-09211-01	27-09214-01	27-09215-01
Fig.2	27-09210-02	27-09211-02	27-09214-02	27-09215-02
Fig.3	27-09210-03	27-09211-03	27-09214-03	27-09215-03
Fig.4	27-09210-04	27-09211-04	27-09214-04	27-09215-04
Fig.5	27-09210-05	27-09211-05	27-09214-05	27-09215-05
Fig.6	27-09210-06	27-09211-06	27-09214-06	27-09215-06



**Sims**  
25cm/10"



Malleable		Rigid	
Sharp	Blunt	Sharp	Blunt

Fig.1	27-09218-01	27-09219-01	27-09222-01	27-09223-01
Fig.2	27-09218-02	27-09219-02	27-09222-02	27-09223-02
Fig.3	27-09218-03	27-09219-03	27-09222-03	27-09223-03
Fig.4	27-09218-04	27-09219-04	27-09222-04	27-09223-04
Fig.5	27-09218-05	27-09219-05	27-09222-05	27-09223-05
Fig.6	27-09218-06	27-09219-06	27-09222-06	27-09223-06



26cm



Rigid

Malleable



31cm

Recamier

Fig.	mm	Malleable		Rigid		Malleable		Rigid	
		Sharp	Blunt	Sharp	Blunt	Sharp	Blunt	Sharp	Blunt
00	5	27-09226-05	27-09227-05	27-09228-05	27-09229-05	27-09230-05	27-09231-05	27-09232-05	27-09233-05
0	6	27-09226-06	27-09227-06	27-09228-06	27-09229-06	27-09230-06	27-09231-06	27-09232-06	27-09233-06
1	7	27-09226-07	27-09227-07	27-09228-07	27-09229-07	27-09230-07	27-09231-07	27-09232-07	27-09233-07
2	8	27-09226-08	27-09227-08	27-09228-08	27-09229-08	27-09230-08	27-09231-08	27-09232-08	27-09233-08
3	9	27-09226-09	27-09227-09	27-09228-09	27-09229-09	27-09230-09	27-09231-09	27-09232-09	27-09233-09
4	10	27-09226-11	27-09227-11	27-09228-11	27-09229-11	27-09230-11	27-09231-11	27-09232-11	27-09233-11
5	12	27-09226-12	27-09227-12	27-09228-12	27-09229-12	27-09230-12	27-09231-12	27-09232-12	27-09233-12
6	14	27-09226-14	27-09227-14	27-09228-14	27-09229-14	27-09230-14	27-09231-14	27-09232-14	27-09233-14
7	15	27-09226-15	27-09227-15	27-09228-15	27-09229-15	27-09230-15	27-09231-15	27-09232-15	27-09233-15
8	16	27-09226-16	27-09227-16	27-09228-16	27-09229-16	27-09230-16	27-09231-16	27-09232-16	27-09233-16
9	19	27-09226-19	27-09227-19	27-09228-19	27-09229-19	27-09230-19	27-09231-19	27-09232-19	27-09233-19
10	20	27-09226-20	27-09227-20	27-09228-20	27-09229-20	27-09230-20	27-09231-20	27-09232-20	27-09233-20
11	21	27-09226-21	27-09227-21	27-09228-21	27-09229-21	27-09230-21	27-09231-21	27-09232-21	27-09233-21
12	23	27-09226-23	27-09227-23	27-09228-23	27-09229-23	27-09230-23	27-09231-23	27-09232-23	27-09233-23
13	25					27-09230-25	27-09231-25	27-09232-25	27-09233-25
14	30					27-09230-30	27-09231-30	27-09232-30	27-09233-30
15	35					27-09230-35	27-09231-35	27-09232-35	27-09233-35
16	40					27-09230-40	27-09231-40	27-09232-40	27-09233-40



**Bumm**  
 max.29cm/11 1/2"

Fig.	mm	Mealleable	
		Sharp	Blunt
0	16.0	27-09236-16	27-09237-16
1	18.0	27-09236-18	27-09237-18
2	19.5	27-09236-19	27-09237-19
3	21.5	27-09236-21	27-09237-21
4	23.5	27-09236-23	27-09237-23
5	26.0	27-09236-26	27-09237-26
6	28.5	27-09236-28	27-09237-28



Blunt

Sharp

**Blake(Zweifel)**  
 27-09240-2727cm/10 1/2"  
 27-09240-3131cm/12 1/4"

For Internal Measurements



28-09244-45  
Laparotomy Ring  
1 3/4" Inside Diameter



**DeLee**  
28-09248-20  
20cm/8"  
cm/Inch Scale



**Martin**  
28-09252-34 34cm/13 1/2" 28-09254-34  
cm/Inch Scale



**Collin**  
28-09258-35  
35cm/13 3/4"  
cm Scale



**Breisky**  
28-09262-33  
33cm/13"  
cm/Inch Scale



**Collyer**  
28-09266-30  
30cm/12"  
cm/Inch Scale

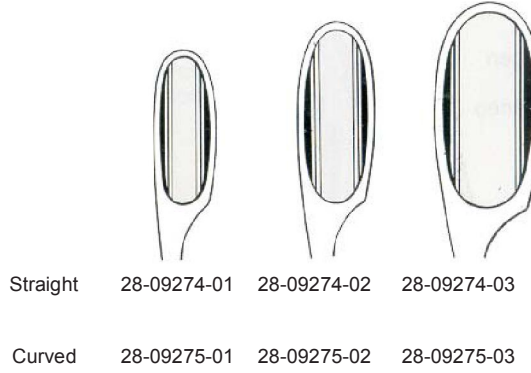


**Iowa**  
28-09270-14  
14cm/5 1/2"  
Trumpet Needle Guide

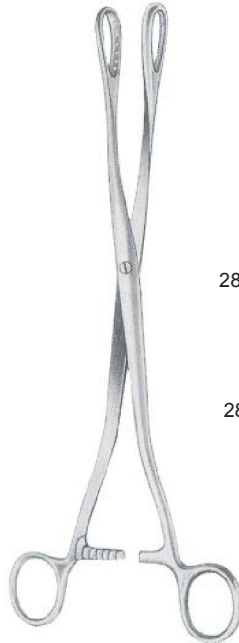




**Winter**  
28cm/11"



**Wallich**  
28-09278-42  
42cm/16 3/4"



**Sanger**  
27cm/10 1/2"

Straight  
28-09282-27

Curved  
28-09283-27

Uterine Haemostasis Forceps



**Green-Armytage**  
28-09286-21  
21cm/8 1/4"

ScalpFlapForceps



**Gauss**  
 28-09290-26  
 26cm/10 1/4"



**Willet-Martel**  
 28-09294-19  
 19cm/7 1/2"

HeadLever



**Murless**  
 28-09298-26  
 26cm/10 1/4"

ElevatingSpoon



**Sellheim**  
 28-09302-28  
 28cm/11"



**Smellie**  
 28-09306-25  
 25cm/10"

Perforators



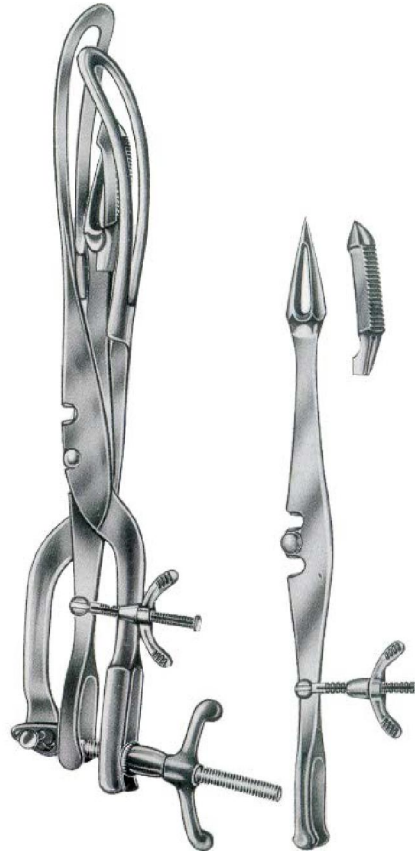
**Nagele**  
 28-09310-25  
 25cm/10"

Cranioclast



**Braun**  
28-09314-42  
42cm/16 1/2"

Basiotribe



**Tarnier**  
28-09318-46  
46cm/18"

Decapitating Hook



**Braun**  
28-09322-30  
30cm/12"

Umbilical Cord Clamps



**Collin**  
28-09326-09  
9cm/3 1/2"



**Nagele**  
 28-09330-3636cm/14"  
 28-09330-4040cm/16"



**Wrigley**  
 28-09334-28  
 28cm/11"



**Simpson**  
 28-09338-23  
 23cm/9"



**Simpson**  
 28-09340-30  
 30cm/12"



**Simpson-Braun**  
 28-09342-36  
 36cm/14"



**Simpson-Luikart**  
 28-09344-36  
 36cm/14"



**DeLee**  
 28-09348-3030cm/12"  
 28-09348-3636cm/14"

Traction Handle to be used with all obstetrical Forceps with Standard type Handles



**Bill**  
 28-09350-20



**Kielland**  
 28-09352-41  
 41cm/16"



**Kielland-Luikart**  
 28-09354-40  
 40cm/15 3/4"



**Mclean**  
 28-09358-36  
 36cm/14"



**Elliot**  
 28-09362-3232cm/12 1/2"  
 28-09362-3838cm/15"



**Piper**  
 28-09366-44  
 44cm/17 1/4"



With Traction Handle

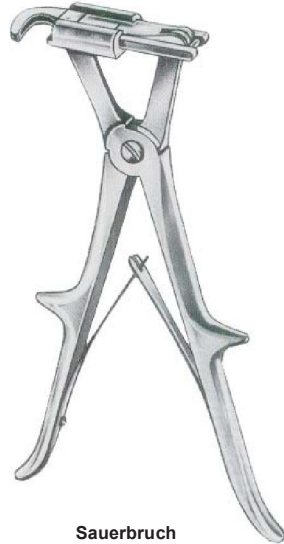
**Barnes-Neville**  
 28-09370-43  
 43.5cm/17"



With Traction Handle

**Tarnier**  
 28-09374-40  
 40cm/15 3/4"

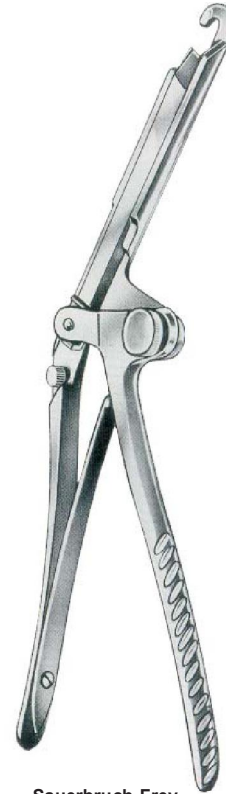




**Sauerbruch**  
29-09378-2424cm/9 1/2"  
29-09378-2626cm/10 1/4"



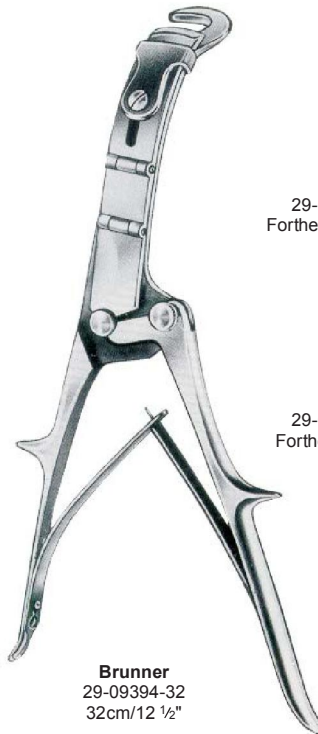
**Giertz-Stillle**  
29-09382-27  
27cm/10 1/2"



**Sauerbruch-Frey**  
29-09386-36  
36cm/14"



**Bethune**  
29-09390-34  
34cm/13 1/2"



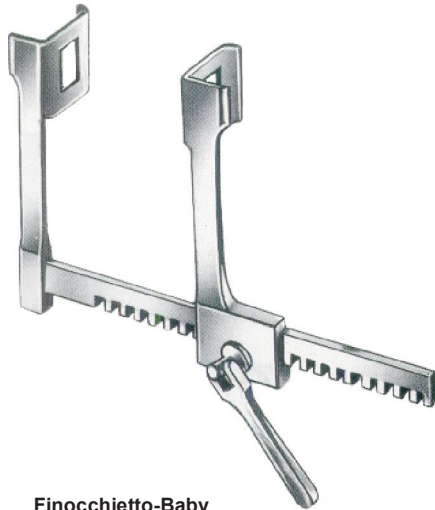
**Brunner**  
29-09394-32  
32cm/12 1/2"

29-09394-32  
For the Right Hand

29-09395-32  
For the Left Hand



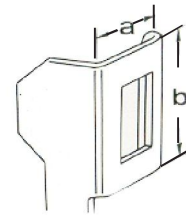
**Lebsche**  
29-09398-24  
24.5cm/9 3/4"



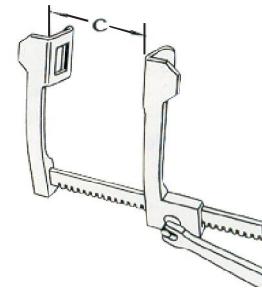
**Finocchietto-Baby**

	a	b	c
29-09402-00	18mm	21mm	105mm

Scheme of Dimensions



Size of Blades



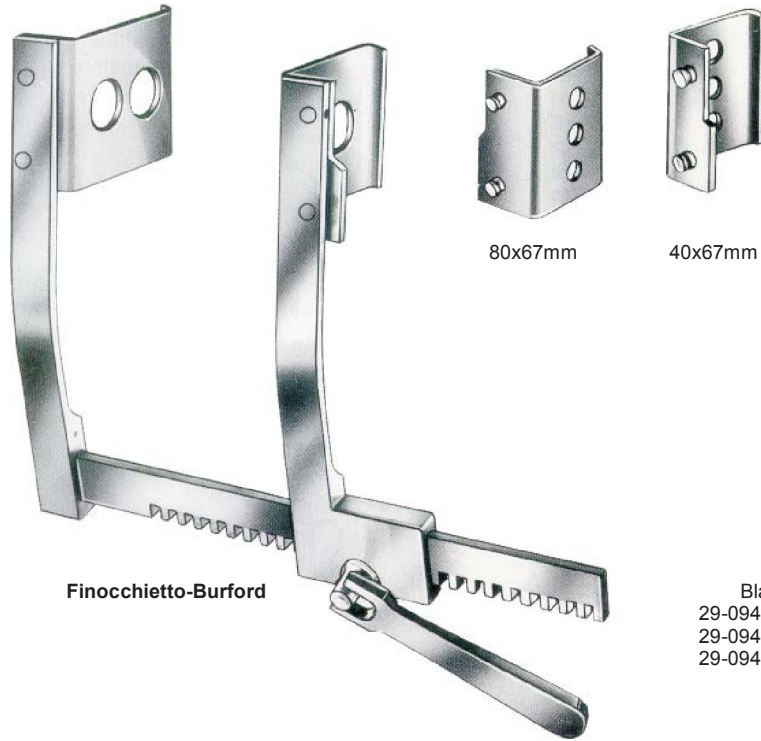
Total Spread



**Finocchietto**

	a	b	c
29-09406-01	36mm	45mm	165mm
29-09406-02	44mm	65mm	200mm
29-09406-03	44mm	65mm	250mm
29-09406-04	44mm	65mm	300mm
29-09406-05	65mm	65mm	200mm
29-09406-06	65mm	65mm	250mm
29-09406-07	65mm	65mm	300mm

With 2 Pairs of Interchangeable Blades



**Finocchetto-Burford**

Blade Opening  
 29-09410-01200mm/8"  
 29-09410-02250mm/10"  
 29-09410-03305mm/12"

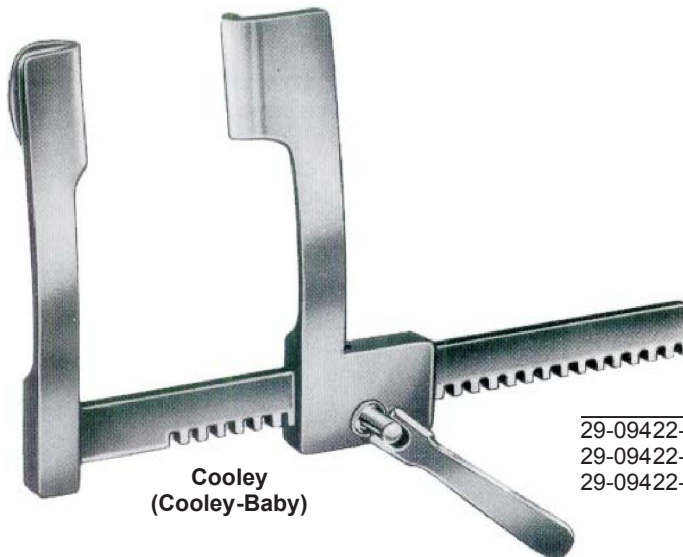


**Tuffier**



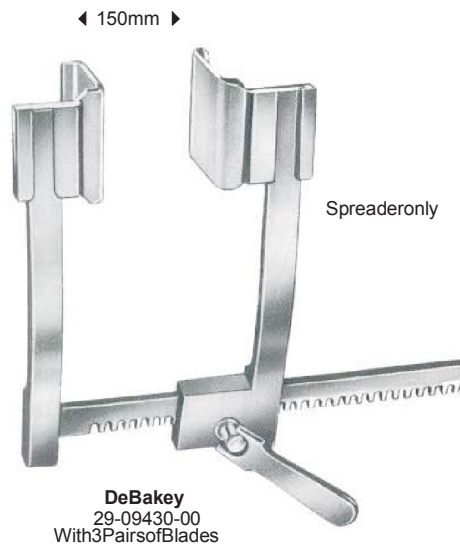
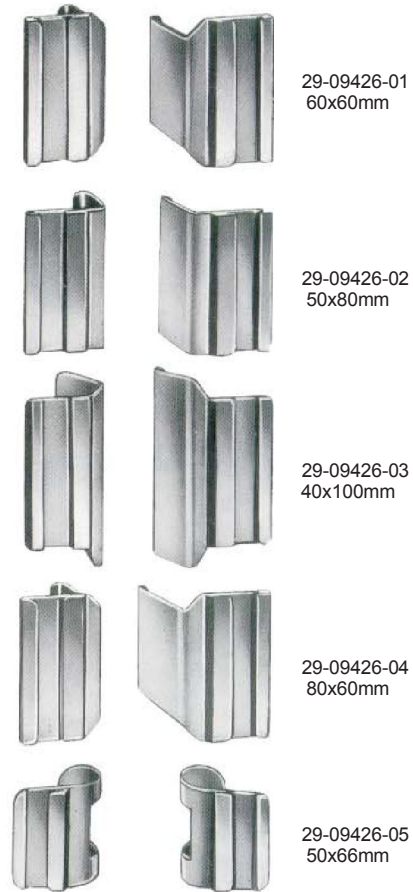
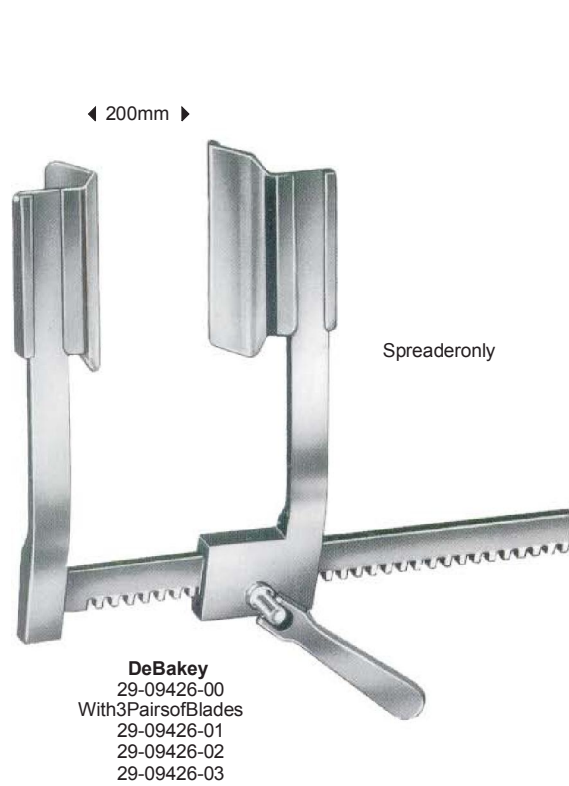
**Haight**

	a	b	c
29-09418-00	30mm	30mm	115mm



**Cooley  
(Cooley-Baby)**

	a	b	c
29-09422-01	15mm	30mm	75mm
29-09422-02	21mm	45mm	145mm
29-09422-03	32mm	50mm	190mm



◀ Fig.115cm/6" ▶  
◀ Fig.220cm/8" ▶



**Morse-Favaloro**  
Fig.129-09434-01  
Fig.229-09434-02

75x75mm

42x65mm

Thoracic Retractor



**(Mercedes-Retractor)**  
29-09436-00  
Complete





	a	b	c
29-09438-01	12mm	17mm	75mm
29-09438-02	16mm	30mm	105mm
29-09438-03	37mm	49mm	200mm

**Cooley  
(Cooley-Baby)**



	a	b	c
29-09442-01	10.5mm	32mm	65mm
29-09442-02	12mm	45mm	70mm
29-09442-03	15mm	60mm	120mm

**Castaneda**



	a	b	c
29-09446-01	15mm	15mm	75mm
29-09446-02	31mm	31mm	100mm

**Finocchietto-Baby-Haight**



**Finocchetto**

	a	b	c
29-09450-01	38mm	44mm	135mm
29-09450-02	52mm	62mm	135mm
29-09450-03	85mm	65mm	135mm



**Burford**  
With 2 Pairs of Blades

ForChild	a	b	c
	48mm	42mm	135mm
29-09454-00	34mm	42mm	135mm
29-09454-01	65mm	62mm	180mm
	47mm	62mm	
29-09454-02	65mm	62mm	260mm
	47mm	62mm	
29-09454-03	65mm	62mm	300mm
	47mm	62mm	



**Lemmon**  
29-09458-18  
18cm/7"



**Sellors**  
29-09462-19  
19cm/7 1/2"



**Bailey-Baby**  
29-09466-14  
14cm/5 1/2"



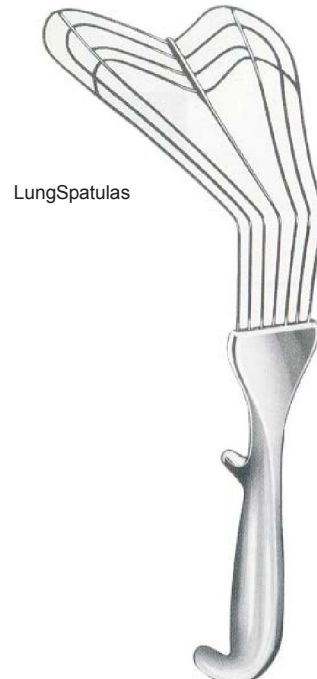
**Bailey**  
29-09470-16  
16cm/6 1/4"



**Bailey-Gibbon**  
29-09474-16  
16cm/6 1/4"



**Allison**  
29-09478-2525.5cm/10"  
29-09478-3030.0cm/12"

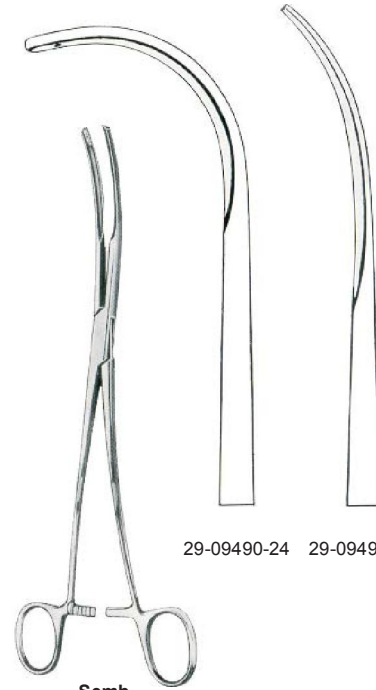


Lung Spatulas

29-09482-30  
30cm/12"



**Price-Thomas**  
29-09486-22  
22cm/8 3/4"



**Semb**  
24cm/9 1/2"

29-09490-24 29-09492-24

Lunggraspingforceps



**Lovelace**  
29-09496-20  
20cm/8"



**Lovelace**  
29-09500-20  
20cm/8"



Fig.1

Fig.2

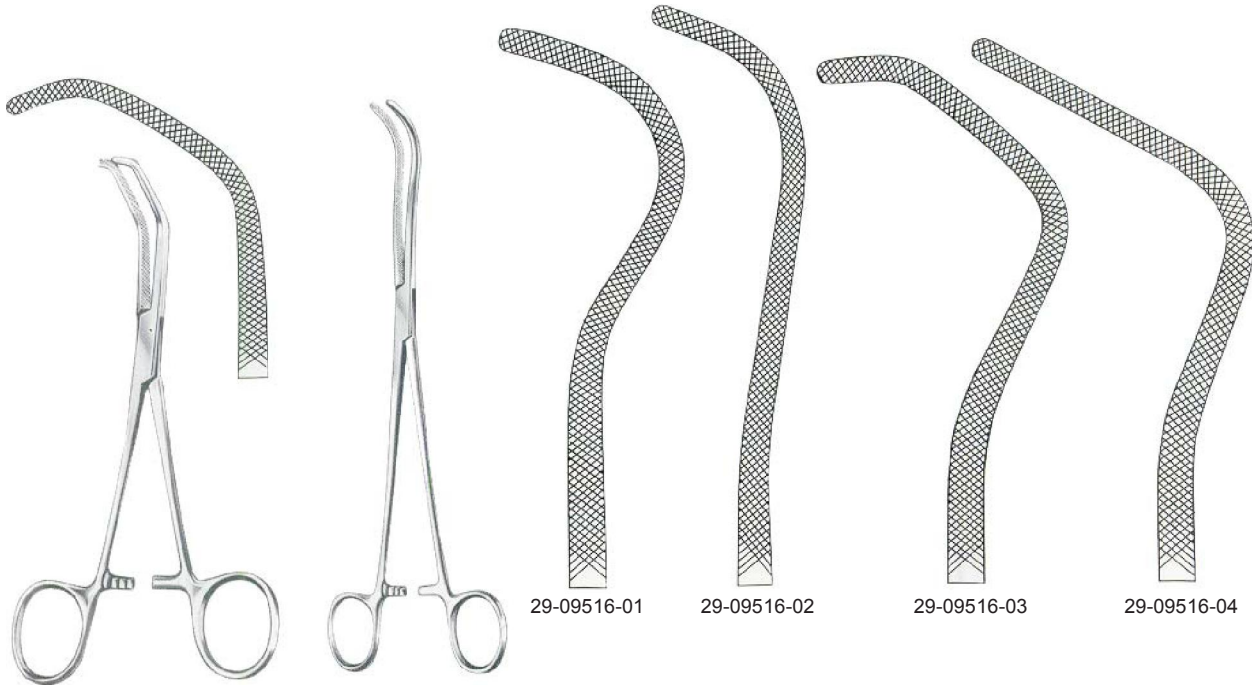


29-09504-01  
29-09504-02

**Satinsky**  
26.5cm/10 1/2"  
Fig.1  
Fig.2



29-09508-01  
29-09508-02



**Baby-Satinsky**  
29-09512-15  
15cm/6"

**Harken**  
24cm/9 1/2"

29-09516-01

29-09516-02

29-09516-03

29-09516-04

### *PinsmedAtraumaTC*

Alraumatissueforceps



**DeBakey**

Wide

29-09520-15	15.0cm/6"	1.5mm
29-09520-19	19.5cm/7 1/2"	1.5mm
29-09520-24	24.0cm/9 1/2"	1.5mm



**DeBakey**

1.2mm	2.0mm	Wide
29-09524-18	29-09526-18	18cm/7"
29-09524-21	29-09526-21	21cm/8 ¼"

## PinsmedAtrauma



**Cooley**

29-09530-15	15.0cm/6"
29-09530-19	19.5cm/7 ½"
29-09530-24	24.0cm/9 ½"



**Wide**

	1.5mm	2.0mm	2.7mm	3.5mm
16cm/6 ¼"	29-09534-16	29-09536-16	29-09538-16	29-09540-16
20cm/8"	29-09534-20	29-09536-20	29-09538-20	29-09540-20
24cm/9 ½"	29-09534-24	29-09536-24	29-09538-24	29-09540-24
30cm/12"	29-09534-30	29-09536-30	29-09538-30	29-09540-30

**DeBakey**



**Wide  
2.0mm**

29-09543-16
29-09543-20
29-09543-24
29-09543-30

**DeBakey**





DeBakey

Setting forceps



29-09546-23  
23cm/9"



29-09550-07	7.5cm/3"	29-09551-07
29-09550-08	8.5cm/3 1/2"	29-09551-08
29-09550-10	10.5cm/4 1/4"	29-09551-10
29-09550-12	12.0cm/4 3/4"	29-09551-12



29-09554-03  
3.5cm/1 1/2"



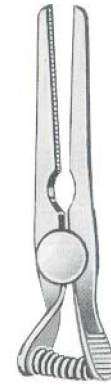
29-09555-03  
3.5cm/1 1/2"



29-09558-04  
4.5cm/1 3/4"



29-09559-04  
4.5cm/1 3/4"



De-Bakey  
29-09562-05  
5.0cm/2"



De-Bakey  
29-09563-05  
5.0cm/2"



DeBakey



**Glover**

29-09566-06	6cm/2 1/2"
29-09566-07	7cm/2 3/4"
29-09566-09	9cm/3 1/2"
29-09566-11	11cm/4 1/2"



**Glover**

29-09567-06	
29-09567-07	
29-09567-09	
29-09567-11	



**Glover**

29-09571-06  
5cm/2"



**DeBakey-Satinsky**

29-09575-07  
7cm/2 3/4"



DeBakey



**DeBakey-Carotid**  
29-09579-09  
9cm/3 1/2"



**DeBakey-Satinsky**  
29-09583-10  
10cm/4"



**Santulli**  
29-09587-07  
7cm/2 3/4"



**Gregory-Soft**  
29-09591-09 29-09593-11  
9cm/3 1/2" 11cm/4 1/2"



DeBakey

CoarctationClamps



**Potts  
(DeBakey)**



29-09596-21  
21cm/8 1/4"



29-09596-22  
22cm/8 3/4"



**Potts  
(DeBakey)**



29-09599-21  
21cm/8 1/4"



29-09599-22  
22cm/8 3/4"



**Potts**



29-09601-21  
21cm/8 1/4"



29-09601-22  
22cm/8 3/4"

Anastomosis Clamps



**Glover  
(Potts)**



**DeBakey**



29-09605-21  
21cm/8 1/4"

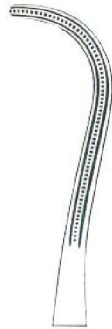


29-09605-22  
22cm/8 1/4"

Dissecting and  
Ligature Forceps



**DeBakey**



29-09609-20  
20cm/8"



29-09609-24  
24cm/9 1/2"



**DeBakey**



29-09613-20  
20cm/8"



29-09615-18  
18cm/7 1/2"



DeBakey



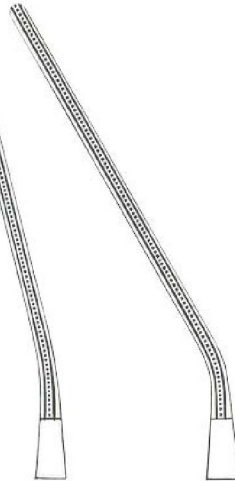
Leland-Jones



29-09618-01  
19.5cm/7 1/2"



29-09618-02  
19.5cm/7 1/2"



29-09618-03  
19.5cm/7 1/2"



Leland-Jones  
29-09621-18  
18cm/7"



DeBakey-Bainbirdge



29-09624-15  
15cm/6"



29-09624-18  
18cm/7"



29-09625-15  
15cm/6"



29-09625-18  
18cm/7"



DeBakey  
29-09629-20  
20cm/8"





DeBakey

Aortic Aneurysm Clamps





DeBakey

Aortic Aneurysm Clamps



**DeBakey**  
29-09637-28  
28cm/11"



29-09641-30  
30cm/12"



DeBakey

AorticClamps



**Ochsner**  
29-09645-23  
23.5cm/9 1/4"



**Dietrich**  
29-09649-21  
21cm/8 1/4"



DeBakey



29-09653-01  
24cm/9 1/2"



29-09653-02  
24cm/9 1/2"

AuricleClamp



Harken



29-09653-03  
24cm/9 1/2"

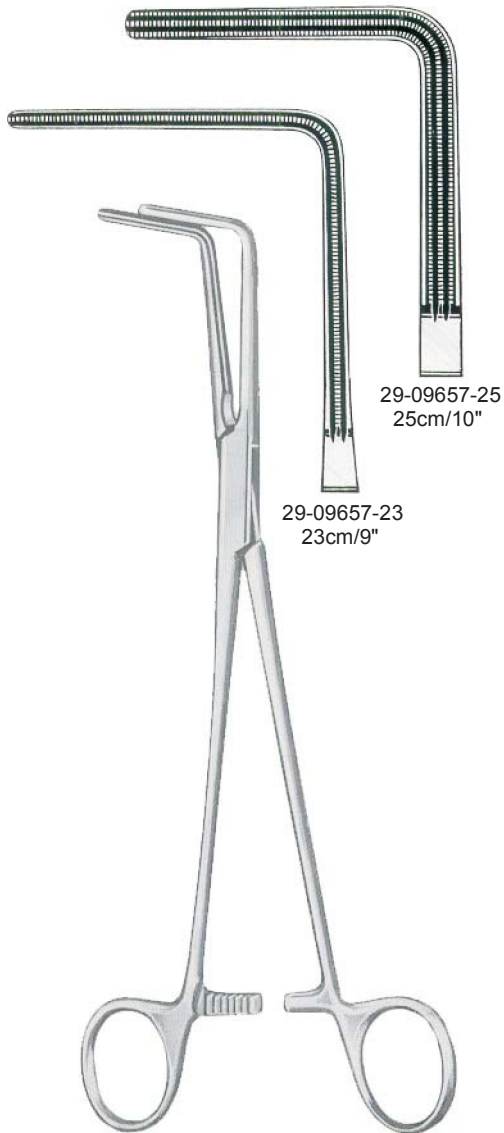


29-09653-04  
24cm/9 1/2"



DeBakey

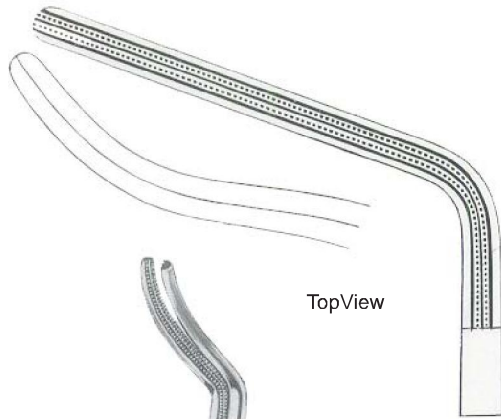
BronchusClamps





DeBakey

AorticClamp



TopView



**DeBakey**  
29-09665-27  
27cm/10 1/2"



**DeBakey**  
29-09669-24  
24cm/9 1/2"

LigatureClamps



**DeBakey**  
29-09673-24  
24cm/9 1/2"





DeBakey

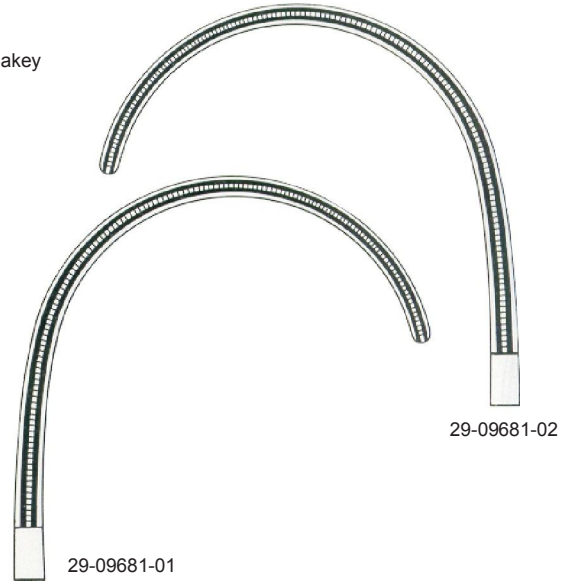
Ligatureclamp,  
Aorticclamp



**DeBakey**  
29-09677-26  
26.5cm/10 1/2"

**DeBakey-Semb**  
29-09677-25  
25cm/10"

DeBakey-Semb



29-09681-01

29-09681-02

Aorticclamp



**Weber**  
26cm/10 1/4"



**Satinsky/DeBakey**

Tangential occlusion clamps



DeBakey



Set of 5 purchase.  
29-09685-00

29-09685-20  
20cm/8"

29-09685-25  
25cm/10"

29-09685-26  
26cm/10 1/4"

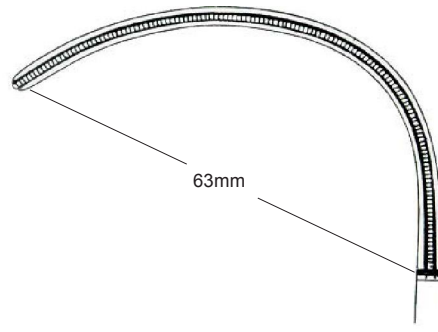
29-09685-27  
27cm/10 1/2"

29-09885-28  
28cm/11"



**Glover**

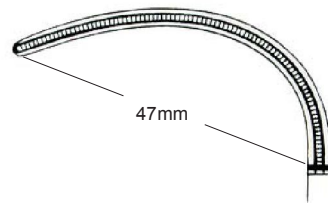
29-09689-01 19.5cm/7 3/4"  
29-09689-02 21.0cm/8 1/4"



Anastomosis

63mm

29-09689-01



47mm

29-09689-02



DeBakey



**Lambert-Kay**  
21cm/8 1/4"



Aortic anastomosis clamps

29-09693-21

29-09695-21



**DeBakey**  
29-09699-17  
17cm/6 3/4"



**Beck**  
29-09703-17  
17cm/6 3/4"

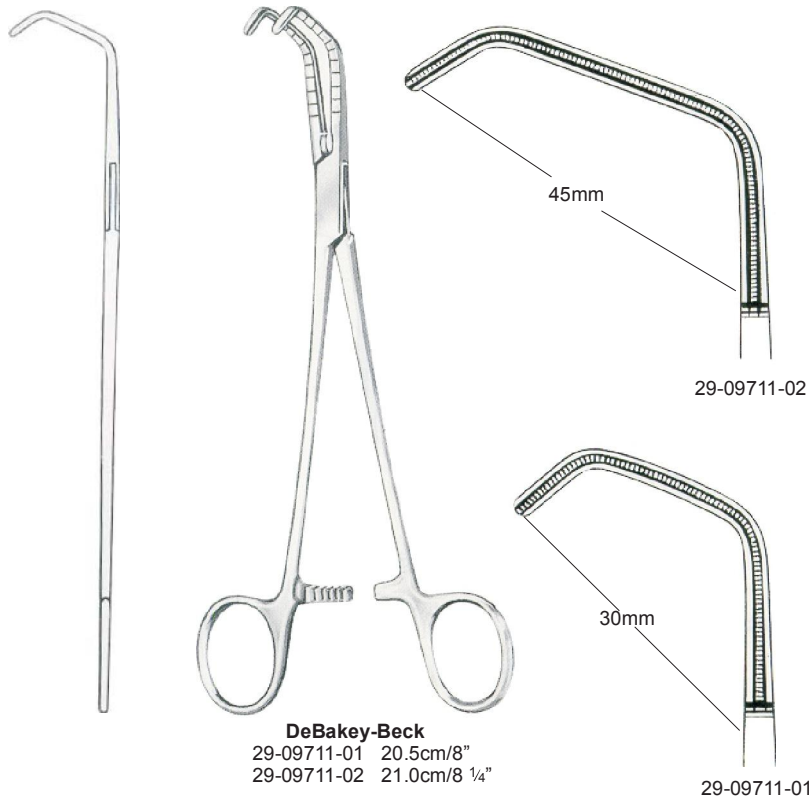


DeBakey



**DeBakey**  
29-09707-16  
16cm/6 1/4"

Graduated



**DeBakey-Beck**  
29-09711-01 20.5cm/8"  
29-09711-02 21.0cm/8 1/4"

29-09711-02

29-09711-01



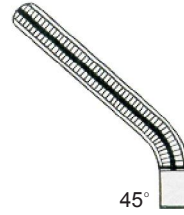
29-09714-00



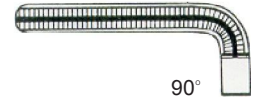
15°  
29-09715-15



30°  
29-09715-30



45°  
29-09715-45



90°  
29-09715-90



29-09718-00



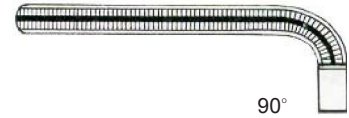
15°  
29-09719-15



30°  
29-09719-30



45°  
29-09719-45



90°  
29-09719-90



**Dardik**  
17cm/6 3/4"



DeBakey



29-09723-20  
20cm/8"

29-09723-22  
22cm/8 3/4"

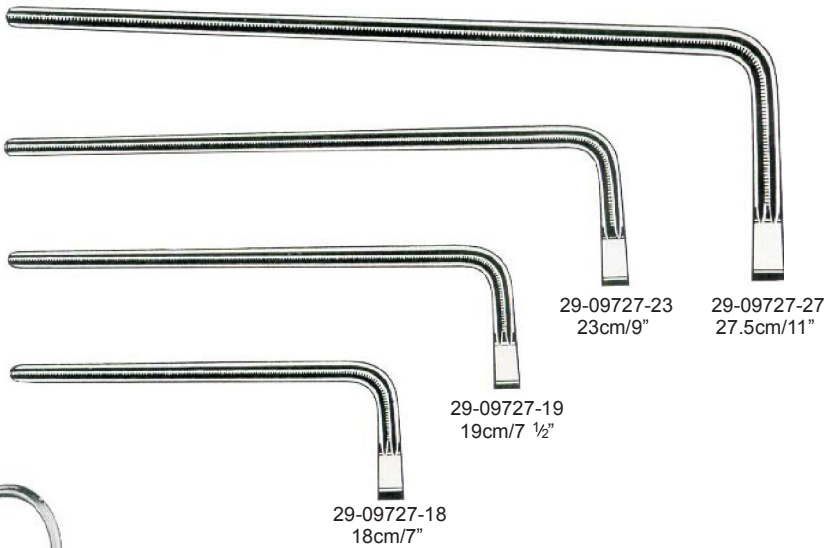
29-09723-24  
24cm/9 1/2"

29-09723-30  
30.5cm/12"

Multipurposeclamps



DeBakey



29-09727-23  
23cm/9"

29-09727-27  
27.5cm/11"

29-09727-19  
19cm/7 1/2"

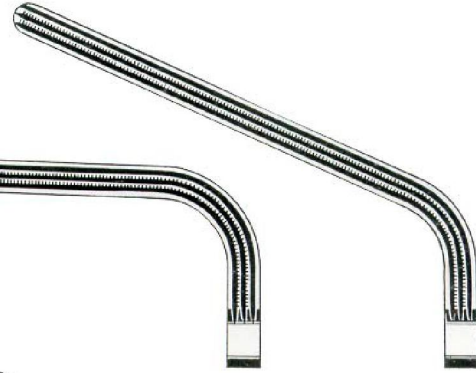
29-09727-18  
18cm/7"





Aortic anastomosis clamps

**Morris-DeBakey**



29-09731-18  
18cm/7"

29-09731-20  
20cm/8"



29-09731-23  
23cm/9"

29-09731-25  
25cm/10"

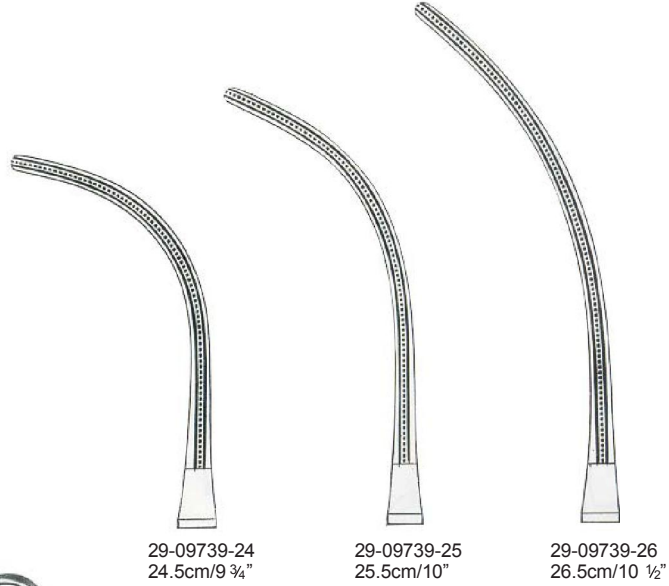


**Glover**  
29-09735-24  
24.5cm/9 3/4"

Aortaaneurysmclamps



DeBakey



Coarctationclamps



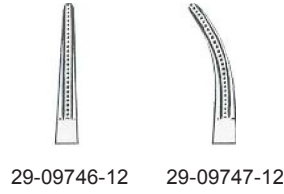
Straight	cm/in	Curved
29-09742-21	21.5cm/8 1/2"	29-09743-21
29-09742-23	23.0cm/9"	29-09743-23
29-09742-27	27.0cm/10 1/2"	29-09743-27
29-09742-31	31.5cm/12 1/2"	29-09743-31



DeBakey



**Mosquito**  
12cm/4 3/4"



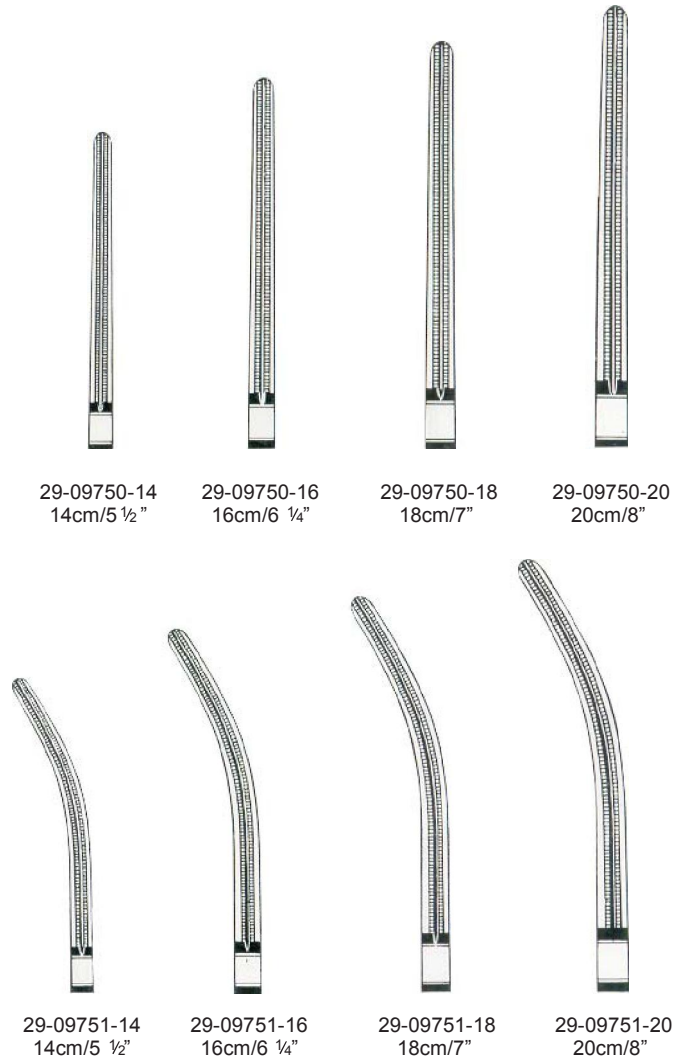
29-09746-12

29-09747-12

Atraumahemostaticforceps



**DeBakey-Pean**



29-09750-14  
14cm/5 1/2"

29-09750-16  
16cm/6 1/4"

29-09750-18  
18cm/7"

29-09750-20  
20cm/8"

29-09751-14  
14cm/5 1/2"

29-09751-16  
16cm/6 1/4"

29-09751-18  
18cm/7"

29-09751-20  
20cm/8"

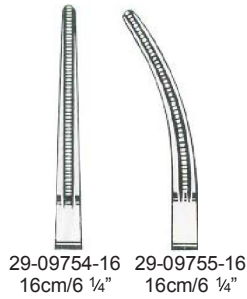
Multipurposeclamps



DeBakey



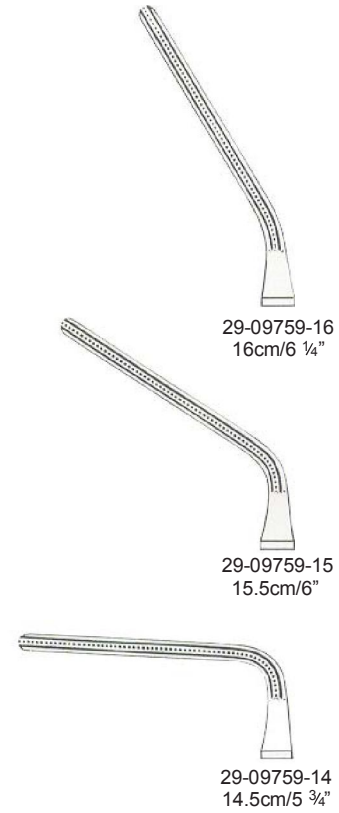
DeBakey-Rankin



29-09754-16 16cm/6 1/4"  
29-09755-16 16cm/6 1/4"



Cooley



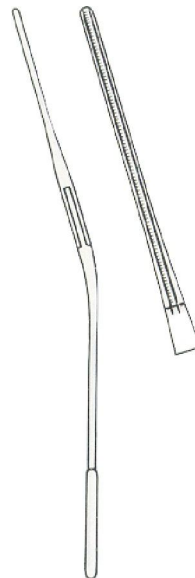
29-09759-16  
16cm/6 1/4"

29-09759-15  
15.5cm/6"

29-09759-14  
14.5cm/5 3/4"



DeBakey  
29-09762-17  
17cm/6 3/4"



29-09763-17



29-09765-17

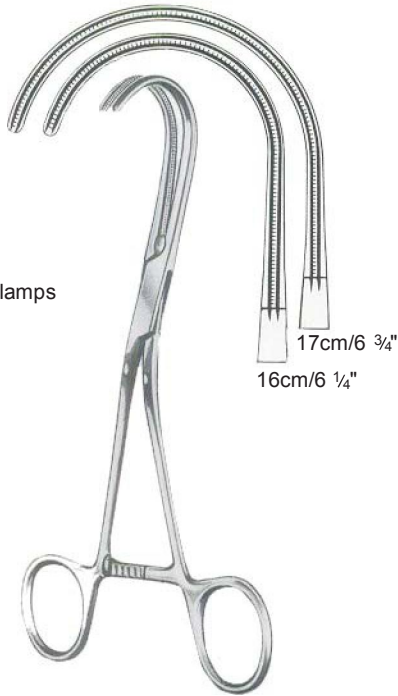


29-09767-17



DeBakey

LigatureClamps



29-09771-16 16cm/6 1/4"  
29-09771-17 17cm/6 3/4"



Derra-DeBakey  
17cm/6 3/4"



AnastomosisClamps

ProfundaClamps



Gregory



29-09779-14  
14cm/5 1/2"



29-09779-16  
16cm/6 1/4"



29-09779-18  
18cm/7"



**DeBakey**  
 29-09782-12  
 12cm/4 3/4"



**DeBakey**



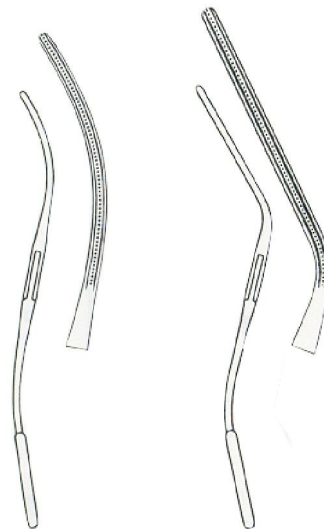
**DeBakey**



29-09783-10  
 10cm/4"



29-09783-11  
 10.5cm/4 1/2"



29-09783-12  
 12cm/4 3/4"

29-09783-13  
 13cm/5"



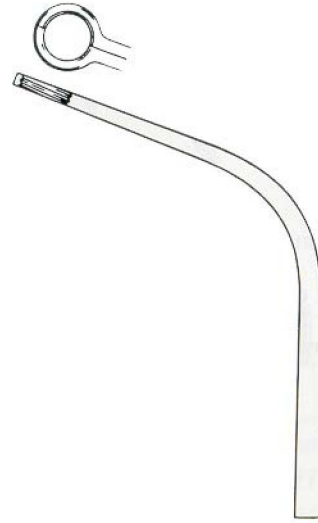
CarotidClamps



**Javid**  
 29-09787-18  
 18cm/7"



**Javid**  
 29-09787-19  
 19cm/7 1/2"



**Cooley**

Charriere (French)	Length cm	
24	16	29-09789-24
26	16	29-09789-26
28	20	29-09789-28
30	20	29-09789-30
32	20	29-09789-32
36	20	29-09789-36



Cooley

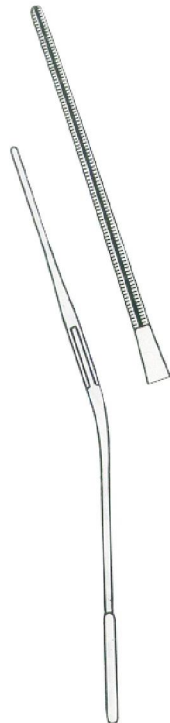
CoarctationClamps



**Cooley**  
29-09792-17  
17cm/6 3/4"



29-09793-17  
17cm/6 3/4"



29-09795-17  
17cm/6 3/4"



29-09797-17  
17cm/6 3/4"



**Cooley**  
 29-09799-20  
 20cm/8"



**Cooley**



**Cooley**



29-09801-03  
 17cm/6 3/4"



29-09801-02  
 15.5cm/6"



29-09801-01  
 15cm/6"



**Cooley**  
 29-09803-17  
 17cm/6 3/4"

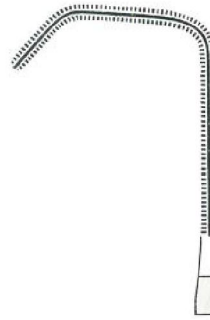
Anastomosisclamps



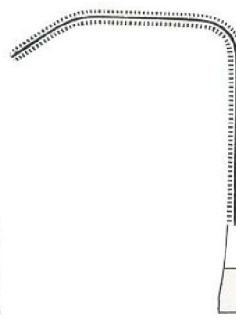
Cooley



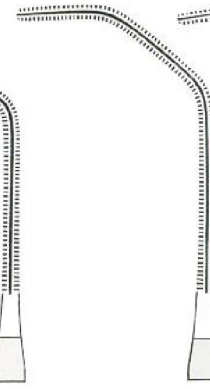
Cooley



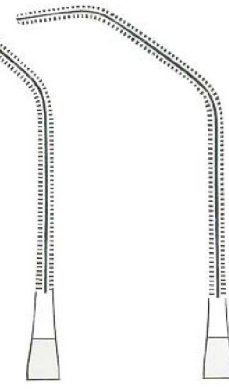
29-09807-01  
16.5cm/6 1/2"



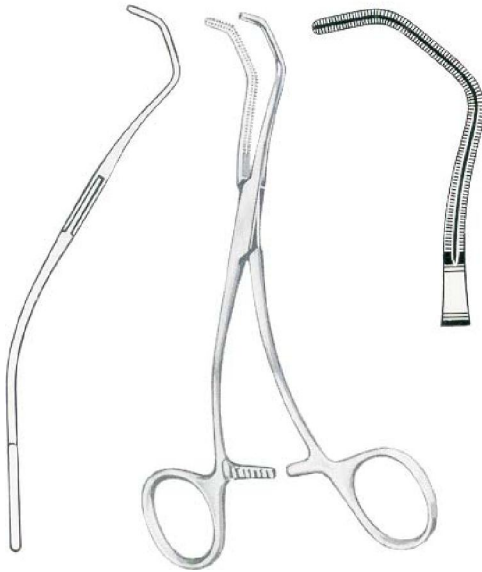
29-09807-02  
16.5cm/6 1/2"



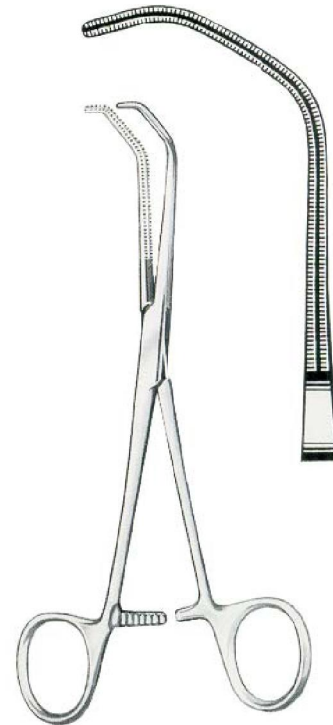
29-09807-03  
17.5cm/7"



29-09807-04  
17.5cm/7"



Cooley  
29-09811-16  
16cm/6 1/4"



Beck  
29-09815-17  
17cm/6 3/4"



Cooley



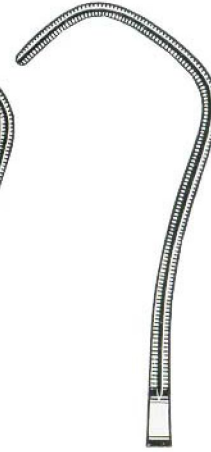
Cooley-Derra



29-09819-16  
16cm/6 1/4"



29-09819-17  
17cm/6 3/4"



29-09819-18  
18cm/7"



Cooley

29-09823-16 16cm/6 1/4"  
29-09823-17 17cm/6 3/4"



16cm/6 1/4"

17cm/6 3/4"

Ligatureclamps







Fig.



Fig.

Fig.	Straight
1	29-09842-01
2	29-09842-02
3	29-09842-03
4	29-09842-04
5	29-09842-05
6	29-09842-06
7	29-09842-07
8	29-09842-08
9	29-09842-09

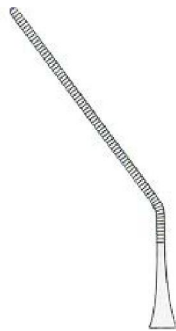


Fig.	Angled
1	29-09843-01
2	29-09843-02
3	29-09843-03
4	29-09843-04
5	29-09843-05
6	29-09843-06
7	29-09843-07
8	29-09843-08
9	29-09843-09



Fig.	Curved
1	29-09845-01
2	29-09845-02
3	29-09845-03
4	29-09845-04
5	29-09845-05
6	29-09845-06
7	29-09845-07
8	29-09845-08
9	29-09845-09





29-09847-01  
13cm/5"



29-09847-02  
13cm/5"



29-09847-03  
13cm/5"



**Castaneda**



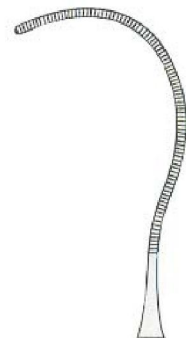
29-09847-04  
15cm/6"



29-09847-05  
15cm/6"



29-09847-06  
15cm/6"



29-09847-07  
15cm/6"



**Cooley**  
29-09849-01  
25cm/10"



**Cooley**  
29-09849-02  
33cm/13"



**Cooley**  
29-09849-03  
30cm/12"



**Cooley**  
29-09849-04  
30cm/12"

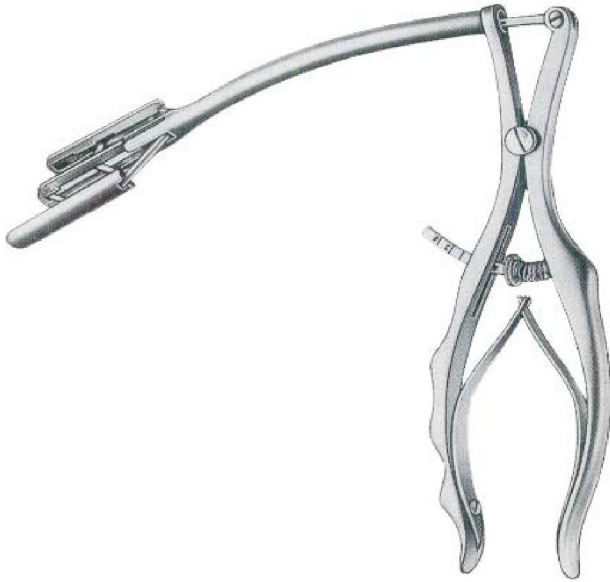


**Cooley**  
29-09849-05  
35cm/13 3/4"

Tourniquets



**Rumel-Belmont**  
29-09851-32 3.2mm Ø  
29-09851-64 6.4mm Ø



**Cooley**  
29-09853-00



**Gerbode**  
29-09854-00



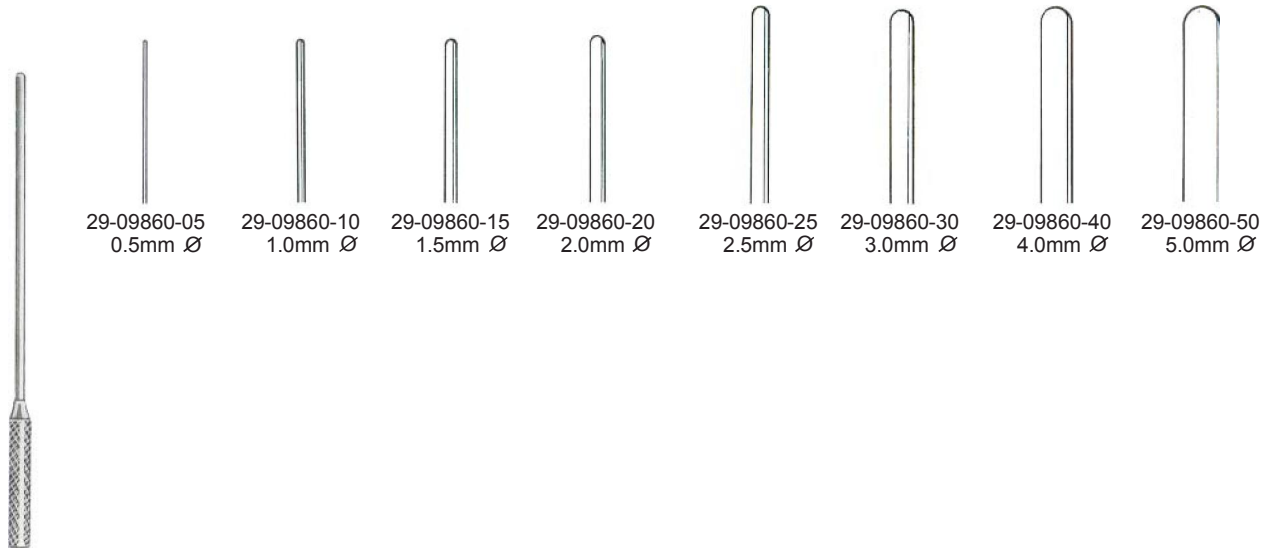
**Tubbs**  
29-09855-00



DeBakey

mm Ø	19cm/7 1/2"	35cm/14"
0.5	29-09857-05	29-09858-05
1.0	29-09857-10	29-09858-10
1.5	29-09857-15	29-09858-15
2.0	29-09857-20	29-09858-20
2.5	29-09857-25	29-09858-25
3.0	29-09857-30	29-09858-30
3.5	29-09857-35	29-09858-35
4.0	29-09857-40	29-09858-40
4.5	29-09857-45	29-09858-45
5.0	29-09857-50	29-09858-50
7.0	29-09857-70	29-09858-70
9.0	29-09857-90	29-09858-90

Malleable



29-09860-05  
0.5mm Ø

29-09860-10  
1.0mm Ø

29-09860-15  
1.5mm Ø

29-09860-20  
2.0mm Ø

29-09860-25  
2.5mm Ø

29-09860-30  
3.0mm Ø

29-09860-40  
4.0mm Ø

29-09860-50  
5.0mm Ø

Cooley  
13cm/5"

29



Children  
30-09862-07  
7cm/2 ¾"

**Weiss**

Adults  
30-09862-09  
9cm/3 ½"



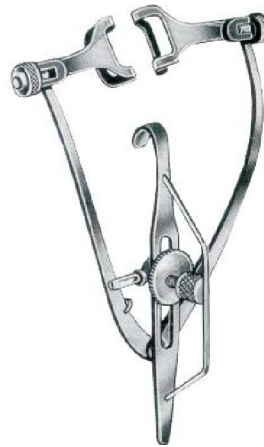
Children  
30-09864-07  
7cm/2 ¾"

**Weiss**

Adults  
30-09864-09  
9cm/3 ½"



**Park**  
30-09868-08  
8cm/3 ¼"



**Park-Guyton**  
30-09870-08  
8cm/3 ¼"



**Park-Maumenee**  
30-09872-08  
8cm/3 ¼"



Children  
30-09874-03  
3cm/1 ¼"

**Barraquer (Colibri)**

Adults  
30-09874-04  
4cm/1 ½"



**Barraquer**  
30-09876-04  
4cm/1 ½"

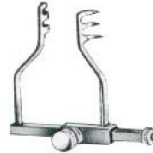


**Bowman**  
30-09878-07  
7cm/2 ¾"





**Sauer**  
30-09880-03  
3cm/1 ¼"

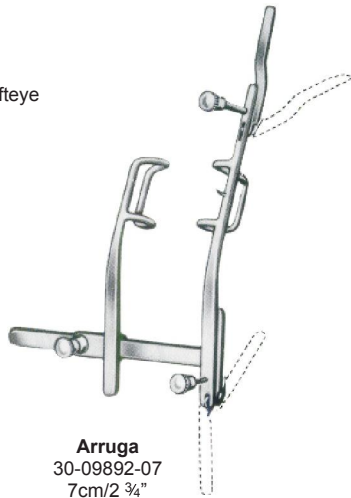


**Goldstein**  
30-09884-03  
3cm/1 ¼"



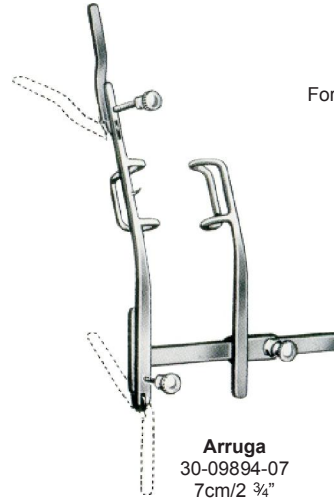
**Pley**  
30-09888-06  
6cm/2 ¼"

Forlefteye



**Arruga**  
30-09892-07  
7cm/2 ¾"

Forrighteye



**Arruga**  
30-09894-07  
7cm/2 ¾"



**Mellinger-Axenfeld**  
30-09898-07  
7cm/2 ¾"



**Mellinger-Axenfeld**  
30-09900-07  
7cm/2 ¾"

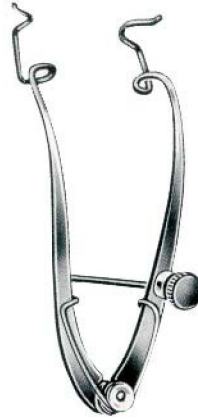
**Children**  
30-09904-05  
5cm/2 ¾"



**Mellinger**  
Adults  
30-09904-07  
7cm/2 ¾"



Children **Mellinger Beard** Adults  
30-09908-05 30-09908-07  
5cm/2" 7cm/2 3/4"



**Knapp Clark**  
30-09912-08  
8cm/3 1/4"



Children **Graefe** Adults  
30-09916-06 30-09916-09  
6cm/2 1/2" 9cm/3 1/2"



Children **Cook** Adults  
30-09920-04 30-09920-05  
4cm/1 1/2" 5cm/2"



**Lancaster**  
30-09924-08  
8cm/3 1/4"



Children **Williams** Adults  
30-09928-07 30-09928-08  
7cm/2 3/4" 8cm/3 1/4"



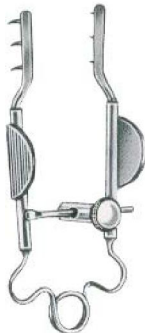
**Lister-Burch**  
30-09932-08  
8cm/3 1/4"



**Weiss**  
30-09936-08  
8cm/3 1/4"



**Murdock**  
30-09940-05  
5cm/2"



**Mueller**  
30-09944-07  
7cm/2 3/4"



**Critchett**  
30-09948-06  
6cm/2 1/2"



**Castroviejo**  
30-09952-08  
8cm/3 1/4"



**Stevenson**  
30-09956-07  
7cm/2 3/4"



**Agricola**  
30-09960-04  
4cm/1 1/2"



**Schepens**  
 30-09964-13  
 13cm/5"



**Desmarres**  
 30-09968-13  
 13cm/5"



8mm  
**Conway**  
 30-09972-13  
 13cm/5"



**Desmarres**  
 13cm/5"



30-09976-12  
 12mm



30-09976-14  
 14mm



30-09976-16  
 16mm



30-09976-18  
 18mm

Lidplate



**Jaeger**  
 30-09980-11  
 11cm/4 1/2"





**Jaeger**  
30-09997-01



30-09997-02    30-09997-03    30-09997-04    30-09999-01    30-09999-02    30-09999-03    30-09999-04



30-10001-01    30-10001-02    30-10001-03    30-10001-04



**Jaeger-Grieshaber**    30-10003-01    30-10003-02    30-10003-03    30-10003-04    **Jaeger-Grieshaber**    30-10005-01    30-10005-02    30-10005-03    30-10005-04

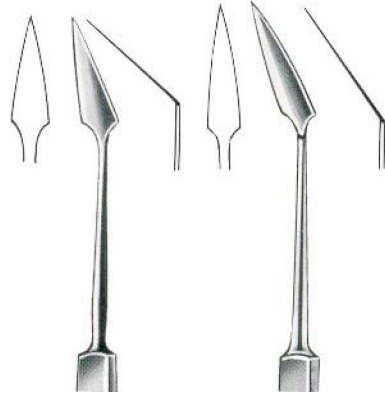
30





**Wessely-Grieshaber**

30-010007-01 4mm  
 30-010007-02 5mm  
 30-010007-03 6mm  
 30-010007-04 7mm



**Wiener**  
 30-010009-13

**Berens**  
 30-010011-13



**Papst**  
 30-010013-13



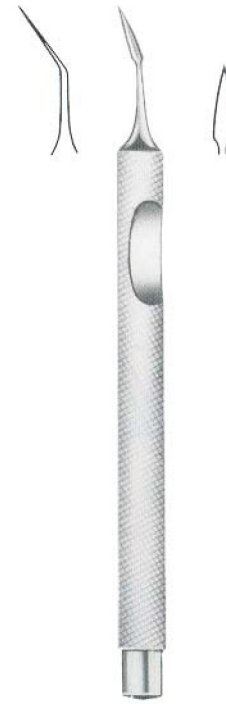
**Castroviejo**  
 30-010015-13



**Castroviejo**  
 30-010019-01  
 9cm/3 1/2"



**Castroviejo**  
 30-010019-02  
 9cm/3 1/2"



**Castroviejo**  
 30-010019-03  
 9cm/3 1/2"



**Mod.Hamburg**  
30-010023-12



**Graefe**  
30-010025-13



30-010027-01



**Weber**  
30-010027-02



30-010027-03



**Bowman**  
30-010029-04  
0.4mm



**Bowman**  
30-010029-05  
0.5mm



**Bowman**  
30-010029-06  
0.6mm



**Bowman**  
30-010029-07  
0.7mm



**Bowman**  
30-010029-08  
0.8mm



Left **Bowman** Right  
30-010031-01 30-010031-02



30-010033-01



**Knapp**  
30-010033-02



30-010033-03



30-010035-05  
5mm



**Ziegler**  
30-010035-06  
6mm



30-010035-07  
7mm



**Dean**  
30-010037-13



**Zigler**  
30-010039-11  
3½ mm



**Sato**  
30-010041-12



**Sichel**  
30-010043-13



**Graefe**  
30-010045-13



**Graefe**  
30-010047-13



30-010049-01



**Kuhnt**  
30-010049-02



30-010049-03



30-010049-04



**Paton**  
30-010051-12



**Elsching**  
30-010053-13



**Took**  
30-010055-12



30-010057-01



**Desmarres**  
30-010057-02



30-010057-03



**Gill**  
30-010059-12



**Anderson-Critchett**  
30-010061-12



**Lundsgaard**  
30-010063-12



**Guyton-Lundsgaard**  
30-010065-12



**Barken**  
30-010067-12



**Scheie**  
30-010069-12



**Burch**  
30-010071-12



30-010073-12



30-010075-12



30-010077-12



30-010079-12



30-010081-12



30-010083-12



**Schweiz.Mod.**  
30-010085-12



30-010087-13



30-010089-13



**Levinson**  
30-010091-13



**Alvis**  
30-010093-12



**Francis**  
30-010095-12



**LaForce  
(Golf-Club)**  
30-010097-12



**Davis**  
30-010099-13



**Dix**  
30-010101-13



**Ellis**  
30-010103-11



**Plango**  
30-010105-12



**Nicati**  
30-010107-12



**Walton**  
30-010109-12



**Walton**  
30-010111-12



**Meyer**  
30-010113-12



**Green**  
30-010115-13



**Rollet**  
30-010117-12



**Graefe**  
30-010119-13



**Graefe**  
30-010121-19



**Graefe**  
30-010123-13



**Becker  
Melleable**  
30-010125-13



**Tuebingen**  
30-010127-13



**Mod. Bonn**  
 30-10129-14  
 14cm/5 1/2"



**Hirschmann**  
 Blunt  
 30-10132-10



**Graefe**  
 Sharp  
 30-10133-12



**Graefe**  
 Blunt  
 30-10136-12



**Knolle**  
 30-10140-01

◀ Blunt ▶



**Jaffe-Knolle**  
 30-10140-02



**O'Connor**  
 30-10144-12



**Wiener**

Sharp  
 30-10047-13

Blunt  
 30-10148-13



**Hirschmann**  
 30-10152-13



**Graefe**  
 30-10156-13



**McGannan**  
 30-10160-13  
 13cm/5"



**Meyer-Schwickerath**  
 30-10164-13  
 13cm/5"



**Jaeger**  
 30-10168-01



**Jaeger**  
 30-10168-02



**Left Arruga**  
 30-10172-01



**Right**  
 30-10172-02



**Jameson**  
 30-10176-12



**Culler**  
 30-10180-12



**Green**  
 30-10184-13





**Guthrie**  
30-10188-12



**Guthrie**  
30-10190-13



**Berens**  
30-10194-12



**Knapp  
Blunt**  
30-10198-13



**Rollet  
Sharp**  
30-10201-12



**Rollet**  
30-10204-12



**Fink  
Blunt**  
30-10208-12



**Right**  
30-10212-01

**Left**  
30-10212-02

10.5cm/4 1/4"



**Knapp-Rollet**  
30-10216-02

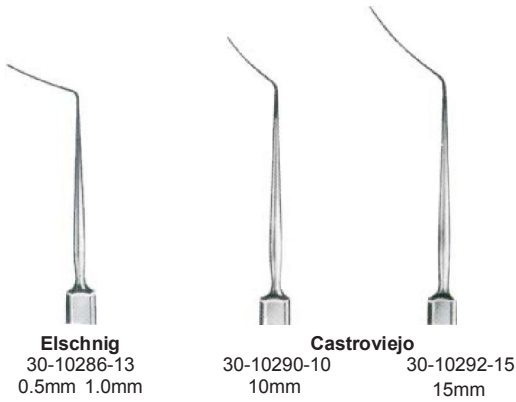
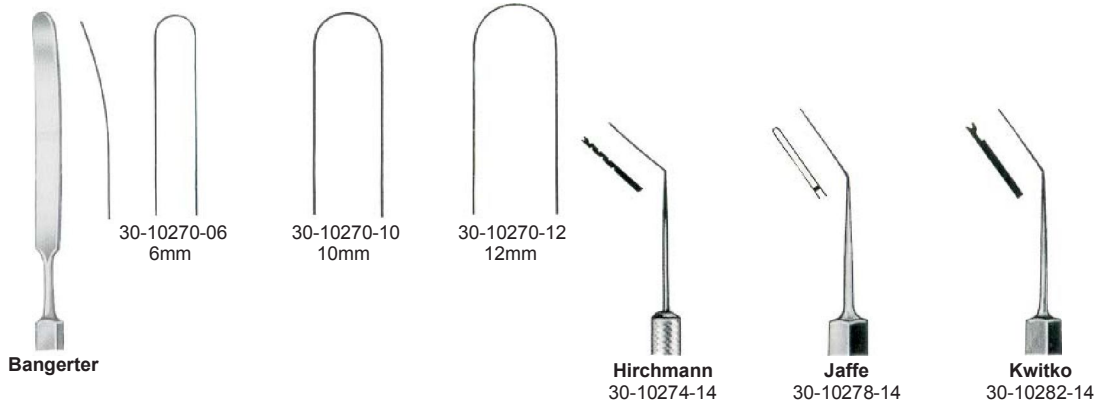


**Flexible**  
30-10216-03

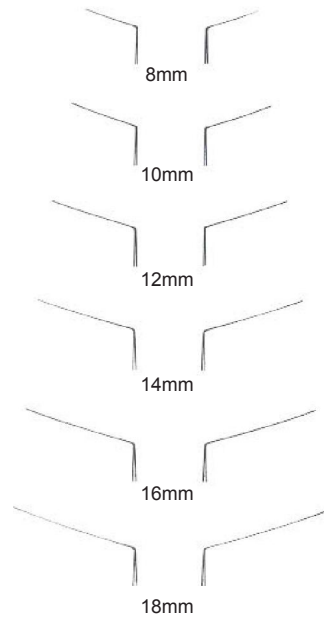


30-10216-04





Width of Spatula







EnucleationScoops

Small  
30-10348-16

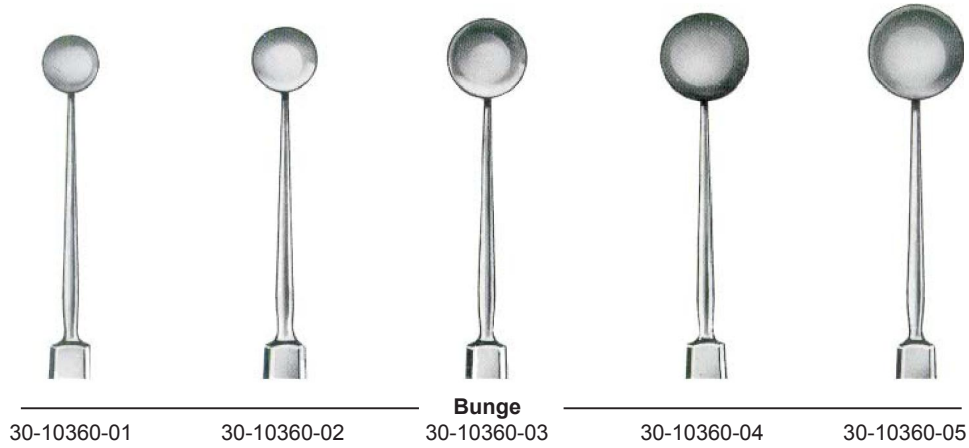
Large  
30-10348-20

Wells

ChalazionCurettes



## ExenterationScoops



ChalazionCurette,Double

**Axenfeld**  
30-10364-13  
13cm/5"



LachrymalSacDissector

**Lang**  
30-10368-13  
13cm/5"



## Irrigating Cannulas

Straight



**Binkhorst**  
 30-10372-01  
 22gauge

Right



**Binkhorst**  
 30-10372-02  
 22gauge

Left



**Binkhorst**  
 30-10372-03  
 22gauge

## ProbePoint



**Bonn**  
 30-10372-04  
 20gauge



**Bonn**  
 30-10372-05  
 19gauge



**Hamburg**  
 30-10372-06  
 23gauge



**Simcoe**  
 30-10376-01  
 23gauge

Irrigation/AspirationCannulas



**Gills-Welsh**  
 30-10376-02  
 25/23gauge



**Knolle-Kelmann**  
 30-10380-01  
 22gauge



**Nevyas**  
 30-10380-02  
 22gauge

CystotomeCannulas



**Kratz**  
 30-10380-03  
 22gauge

LensMainpulationCannulas



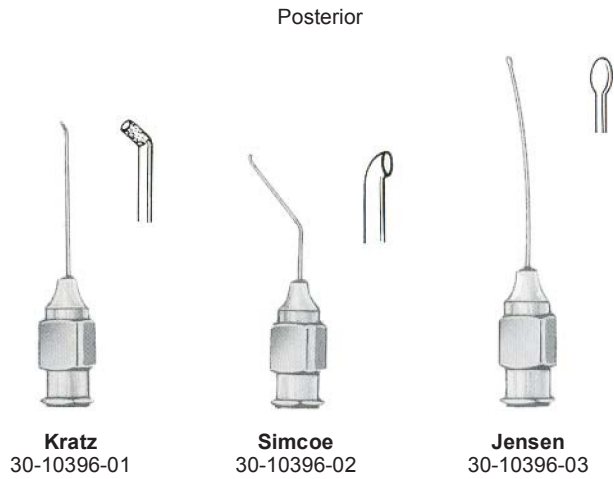
**Freeman**  
 30-10384-01  
 27gauge



## CortexAspirationCannulas



## CapsulePolishingCannulas



## Lachrymal Cannulas



30-10400-01  
25gauge



30-10400-02  
25gauge



30-10400-03  
25gauge



30-10400-04  
25gauge



**Bonn**  
30-10400-05  
19gauge



**Bangerter**  
30-10400-06 40mm  
30-10401-06 60mm



**Anel**  
30-10400-07  
23gauge



**Anel**  
30-10400-08  
23gauge

Alpha-ChymotrypsinCannula



30-10404-00  
23gauge

AirInjectionCannula



**Sauter**  
30-10406-00  
27gauge

CollarButtonCannulas



**Graether**

Straight  
30-10408-01

Angled  
30-10408-02

KnifeCannula



**Sato**  
30-10408-03  
23gauge

A/C PunctureCannula



**Schreck**  
30-10408-04  
21gauge



**Castroviejo**  
30-10412-15



**Castroviejo**  
30-10412-20  
20mm



**Holth**  
30-10416-01



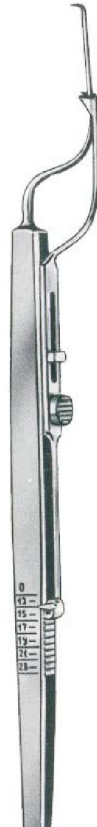
**Haitz**  
30-10416-02



**West**  
30-10420-16  
16cm/6 1/4"



**West**  
30-10422-16  
16cm/6 1/4"



**Connin-Amsler**  
30-10426-13  
13cm/5"



**Wilder**  
30-10430-01



**Wilder**  
30-10430-02



**Wilder**  
30-10430-03





**Castroviejo**  
30-010434-12



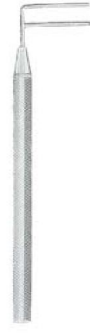
**Muldoon**  
30-10438-10



**Simpson**  
30-10442-01



30-10446-01



30-10446-02

**Bowman  
Fig.**

0000/0000	30-10450-04
000/000	30-10450-03
00/00	30-10450-02
0/0	30-10450-01
1/1	30-10450-11
2/2	30-10450-22
3/3	30-10450-33
4/4	30-10450-44
5/5	30-10450-55
6/6	30-10450-66
7/7	30-10450-77
8/8	30-10450-88

Martial: NSGermanSilver



**Bowman  
Fig.**

0000/000	30-10452-03
000/00	30-10452-02
00/0	30-10452-00
0/1	30-10452-01
1/2	30-10452-12
2/3	30-10452-23
3/4	30-10452-34
4/5	30-10452-45
5/6	30-10452-56
6/7	30-10452-67
7/8	30-10452-78



**Bowman  
Fig.**

0000/000	30-10454-03
000/00	30-10454-02
00/0	30-10454-00
0/1	30-10454-01
1/2	30-10454-12
2/3	30-10454-23
3/4	30-10454-34
4/5	30-10454-45
5/6	30-10454-56
6/7	30-10454-67
7/8	30-10454-78





**Castroviejo**

**Castroviejo**  
Width of Spatula

	mm
30-10458-05	0.50
30-10458-07	0.75
30-10458-10	1.00



**Castroviejo**  
30-10462-12



**Wheeler**  
30-10466-12



**Lindner**  
30-10470-13



**Smith-Fisher**  
30-10474-12



**Green**  
30-10478-12



**Dix**  
30-10482-01



**Dix**  
30-10482-02



**Stille**  
30-10486-01



**Stille**  
30-10486-02



30-10490-12



NeedleOnly  
30-10498-01

ChiselOnly  
30-10498-02

GougeOnly  
30-10498-03



30-10500-13

Instrumentation for D.B. Kirby Operations



30-10502-10

Teeth

30-10506-101:2  
30-10508-102:3

Teeth  
Teeth



30-10510-10  
1:2



**Kirby**  
30-10514-10  
10cm/4"



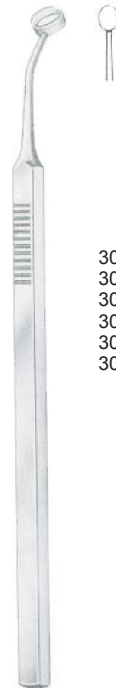
**Kirby**  
30-10516-10  
10cm/4"



30-10518-10



30-10520-10



- 30-10524-01 =3.0x3.5mm
- 30-10524-02 =3.0x4.0mm
- 30-10524-03 =3.0x4.5mm
- 30-10524-04 =3.5x4.0mm
- 30-10524-05 =3.5x4.5mm
- 30-10524-06 =3.5x5.0mm

Bores



- 30-10528-01 =2.75mm
- 30-10528-02 =3.00mm
- 30-10528-03 =3.25mm
- 30-10528-04 =3.75mm
- 30-10528-05 =4.00mm
- 30-10528-06 =4.25mm
- 30-10528-07 =4.50mm
- 30-10528-08 =4.75mm
- 30-10528-09 =5.00mm
- 30-10528-10 =6.00mm
- 30-10528-11 =8.00mm

Bores



- 30-10532-01 =3.00mm
- 30-10532-02 =3.25mm
- 30-10532-03 =3.50mm
- 30-10532-04 =3.75mm
- 30-10532-05 =4.00mm
- 30-10532-06 =4.25mm
- 30-10532-07 =4.50mm
- 30-10532-08 =4.75mm
- 30-10532-09 =5.00mm
- 30-10532-10 =5.50mm
- 30-10532-11 =6.00mm
- 30-10532-12 =7.00mm
- 30-10532-13 =8.00mm
- 30-10532-14 =9.00mm
- 30-10532-15 =1.11mm

Hoffer



- 30-10536-00  
3-5mm

Hoffer



- 30-10536-01  
3-5-7mm

- 30-10536-02  
3-6-8mm

Hoffer



**Tuebingen**  
30-10540-10  
10cm/4"



**Tuebingen**  
30-10544-08  
8.5cm/3 1/2"



**Paufigue**  
30-10548-10  
10cm/4"



**Barraquer**  
30-10552-10  
10.5cm/4 1/4"



**McPherson**  
30-10556-10  
10cm/4"



**McPherson**  
30-10560-07  
7.5cm/3"



**McCullough**  
 30-10564-09  
 9.5cm/3 3/4"



**McCullough**  
 30-10568-09  
 9.5cm/3 3/4"



**Bonaccoito**  
 30-10572-10  
 10cm/4"



**Bonaccoito**  
 30-10576-10  
 10cm/4"



**30-10580-11**  
 11cm/4 1/2"



**11cm/4 1/2"**



**30-10584-11**  
 1:2



**30-10586-11**  
 2:3



**Nugent**  
 10cm/4"



**30-10590-01**



**30-10590-02**





**Berke**  
10cm/4"

30-10594-10

30-10596-10

**Blascovics**  
30-10600-09  
9cm/3 1/2"

**Blascovics**  
30-10601-09  
9cm/3 1/2"

**Worth**  
30-10604-10  
10cm/4"

**Worth**  
30-10605-10  
10cm/4"

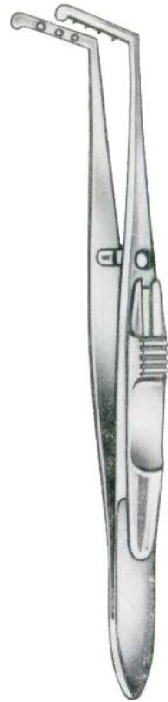


**Jameson**  
30-10608-10  
10cm/4"

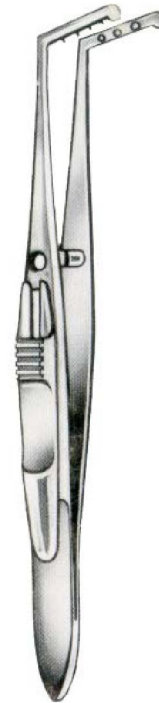
**Jameson**  
30-10609-10  
10cm/4"

**Prince**  
30-10612-10  
10cm/4"

**Prince**  
30-10613-10  
10cm/4"



**Sattler**  
 30-10616-10  
 10cm/4"



**Sattler**  
 30-10617-10  
 10cm/4"



**Snellen**  
 30-10620-10  
 10cm/4"



**Snellen**  
 30-10621-10  
 10cm/4"



**Erhardt**  
 30-10624-09  
 9cm/3 1/2"



**Barraquer**  
 30-10628-05  
 5.5cm/2 1/4"



**Barraquer**  
 30-10628-07  
 5.5cm/2 1/4"



**Barraquer**  
 30-10628-10  
 5.5cm/2 1/4"

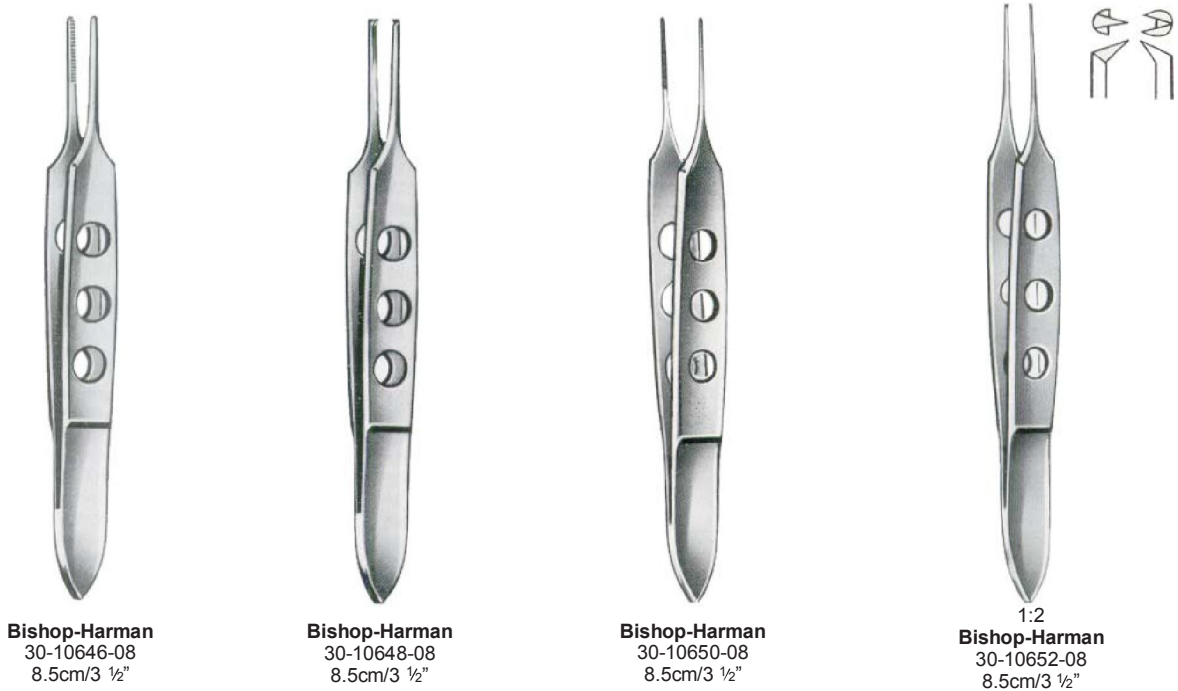
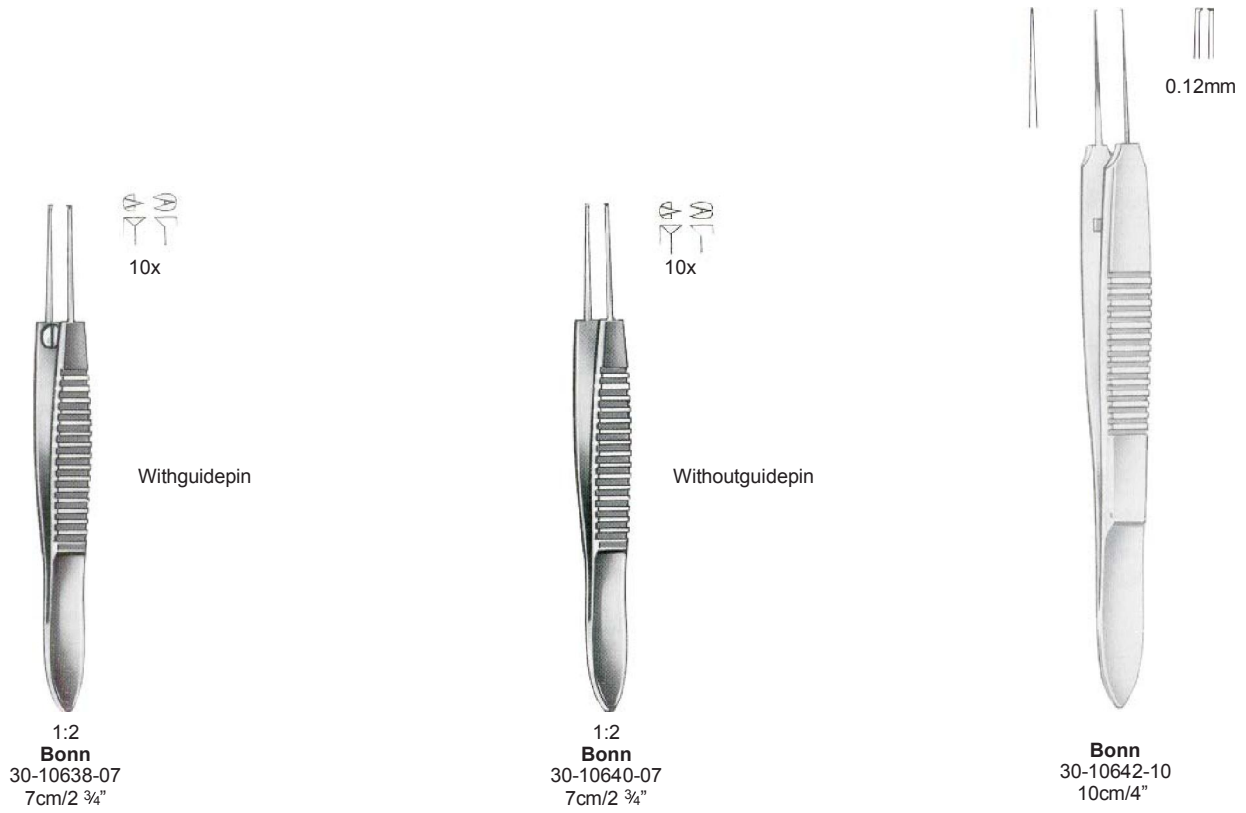


**Hess**  
 30-10632-09  
 9cm/3 1/2"

◀Swisspatterns ▶



**Hess**  
 30-10634-09  
 9cm/3 1/2"





**Graefe**  
30-10656-05 0.5mm  
30-10656-07 0.7mm  
30-10656-10 1.0mm  
7cm/2 3/4"



**Graefe**  
30-10657-05 0.5mm  
30-10657-07 0.7mm  
30-10657-10 1.0mm  
7cm/2 3/4"



**1:2  
Graefe**  
30-10660-05 0.5mm  
30-10660-07 0.7mm  
30-10660-10 1.0mm  
7cm/2 3/4"



**1:2  
Graefe**  
30-10661-05 0.5mm  
30-10661-07 0.7mm  
30-10661-10 1.0mm  
7cm/2 3/4"



**Foerster**  
30-10664-08  
8.5cm/3 1/2"



**Foerster**  
30-10665-08  
8.5cm/3 1/2"



**Foerster**  
30-10668-08  
8.5cm/3 1/2"



**Foerster**  
30-10669-08  
8.5cm/3 1/2"



**Graefe**  
10cm/4"



30-10672-10



30-10673-10



30-10675-10



30-10678-10



30-10679-10



30-10681-10

Conjunctivalforceps



**Stevens**  
10.5cm/4 1/4"



30-10684-10



30-10685-10



30-10687-10



30-10690-10



30-10691-10



30-10693-10



**O'Connor**  
30-10696-10  
10cm/4"



**Stevens**  
30-10700-11  
11cm/4 1/2"

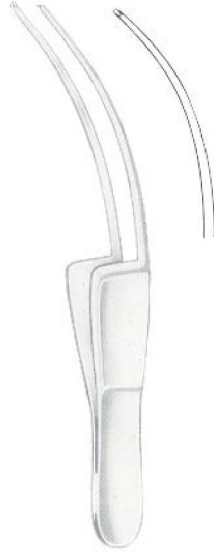


**Stevens**  
30-10701-11  
11cm/4 1/2"





**Fischer**  
30-10705-07  
7cm/2 ¾"



**Fischer-Arit**  
30-10707-07  
7cm/2 ¾"



**Hess**  
30-10711-07  
7cm/2 ¾"



**Hess**  
30-10713-07  
7cm/2 ¾"



Smooth **Chandler** Serrated  
30-10717-01 7cm/2 ¾" 30-10717-02



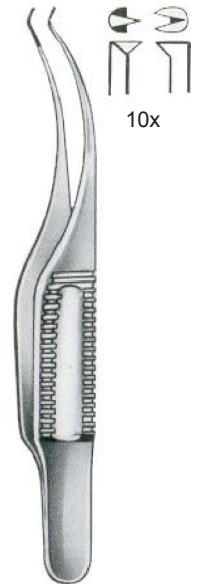
**Fuchs**  
30-10721-07  
7cm/2 ¾"



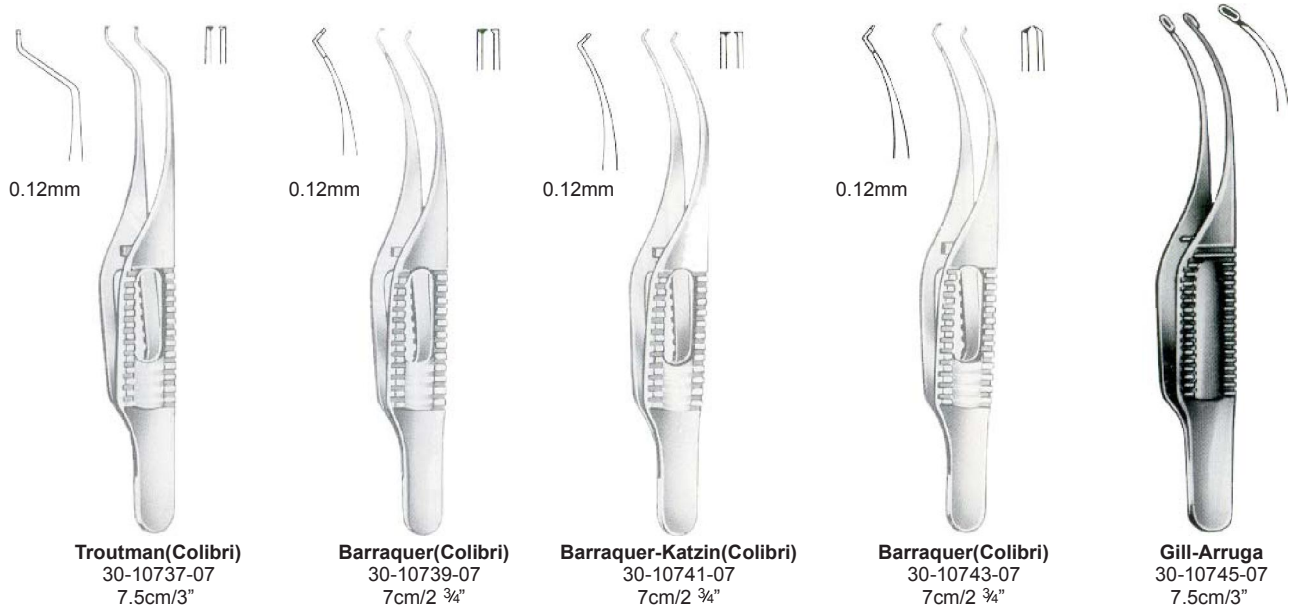
**Gill-Hess**  
30-10723-07  
7.5cm/3"



**Gill-Hess** TeethBelow  
30-10727-07 30-10729-07  
7.5cm/3"  
Teethonside



**Barraquer-Katzin**  
(Colibri)  
30-10733-07  
7cm/2 ¾"





**Fuchs**  
30-10771-07  
7cm/2 ¾"



**Kalt**  
30-10775-10  
10cm/4"



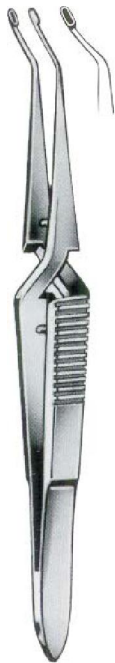
**Terson**  
30-10779-09  
9.5cm/3 ¾"



**Arruga-Nizetic**  
30-10783-10  
10cm/4"



**Castroviejo**  
30-10787-10  
10cm/4"



**Castroviejo**  
30-10789-10  
10cm/4"



**Elschnig**  
30-10793-10  
10cm/4"

ForLenImplantation



**Binkhorst**  
30-10797-07  
7cm/2 ¾"



**Arruga**  
30-10801-09  
9.5cm/3 ¾"



**Arruga**  
30-10803-09  
9.5cm/3 ¾"



**Shepard**

Withirrgator  
30-10807-01

Withoutirrgator  
30-10807-02



**Dastoor**  
30-10811-06  
6cm/2 1/4"



**Arruga**  
30-10815-10  
10cm/4"

Calibrated  
**Arruga**  
30-10817-10  
10cm/4"



**Arruga**  
30-10819-10  
10cm/4"

Calibrated  
**Arruga-Elschnig**  
30-10821-10  
10cm/4"



**Knapp**  
30-10824-11  
11cm/4 1/4"



**Ayer**  
30-10828-09  
9cm/3 1/2"



**Ayer**  
30-10830-09  
9cm/3 1/2"



**Lambert**  
30-10834-09  
9cm/3 1/2"



**Desmarres**  
9cm/3 1/2"



30-10838-01



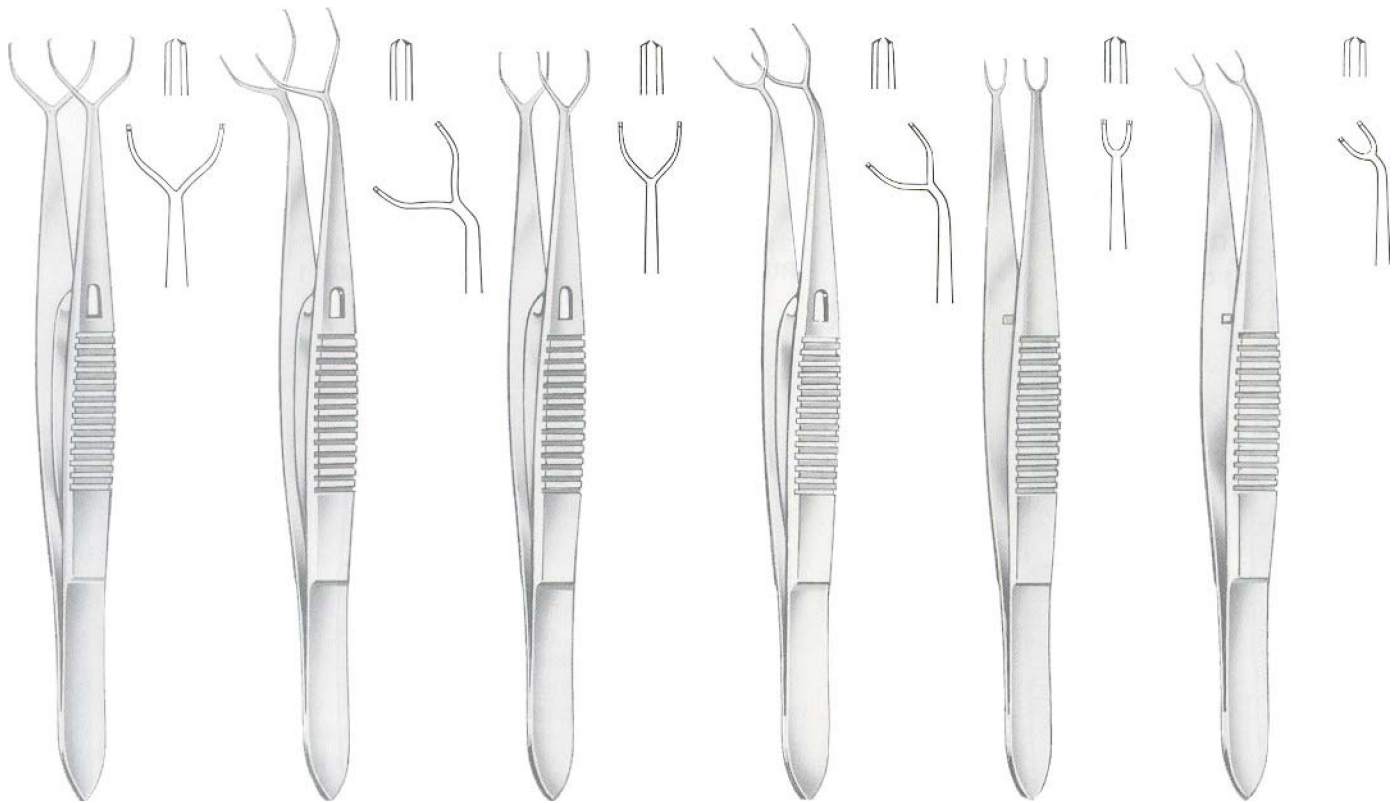
30-10838-02



30-10838-03



## Corneal Fixation Forceps



**Kremer**  
 30-10842-10  
 10cm/4"  
 0.12mm

**Kremer**  
 30-10843-10  
 10cm/4"  
 0.12mm

**Arrowsmith**  
 30-10848-10  
 10cm/4"  
 0.12mm

**Arrowsmith**  
 30-10849-10  
 10cm/4"  
 0.12mm

**Bores**  
 30-10852-10  
 10cm/4"  
 0.12mm

**Rubman-Bores**  
 30-10853-10  
 10cm/4"  
 0.12mm





**Graefe**  
11cm/4 1/2"

Without Spring Catch  
30-10858-11

With Spring Catch  
30-10860-11



30-10864-11  
11cm/4 1/2"

2:3Teeth



30-10866-11  
11cm/4 1/2"

3:4Teeth



**Castroviejo**  
30-10870-09  
9cm/3 1/2"



**Castroviejo**  
30-10872-09  
9cm/3 1/2"



**Moorfield**  
30-10876-10  
10cm/4"



**Lester**  
30-10880-021:2  
30-10882-032:3  
9cm/3 1/2"



**Castroviejo**  
10cm/4"

**Straight**  
30-10886-01  
30-10886-02  
30-10886-03  
30-10886-04  
30-10886-05

**Width of Teeth**  
0.12mm  
0.30mm  
0.50mm  
1.00mm  
1.05mm

**Curved**  
30-10887-01  
30-10887-02  
30-10887-03  
30-10887-04  
30-10887-05



**Castroviejo**  
10cm/4"



**Castroviejo**  
30-10890-09  
9cm/3 1/2"



**St.Martin**  
30-10894-07  
7cm/2 ¾"



**Elschnig**  
30-10898-11  
11.5cm/4 ½"



**Elschnig**  
30-10900-11  
11.5cm/4 ½"



**Barraquer**  
30-10904-10  
10cm/4"



**Green**  
10cm/4"

Wide 05mm WithoutSpringCatch  
10mm 30-10908-05  
30-10908-10

Wide 05mm WithSpringCatch  
10mm 30-10910-05  
30-10910-10



30-10913-12  
12cm/4 ¾"



30-10914-12  
12cm/4 ¾"



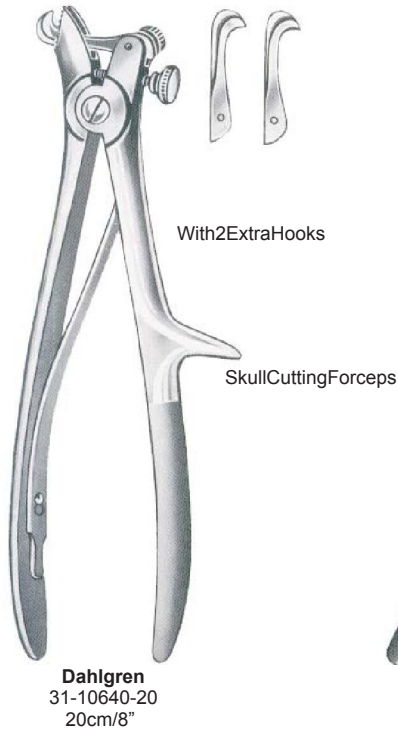
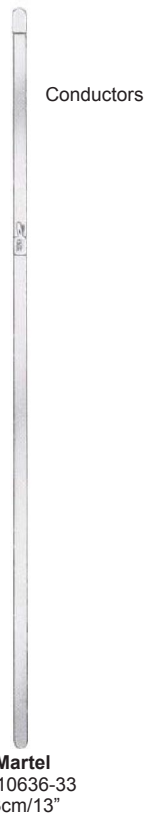
**Woodruff**  
30-10918-13  
13cm/5"

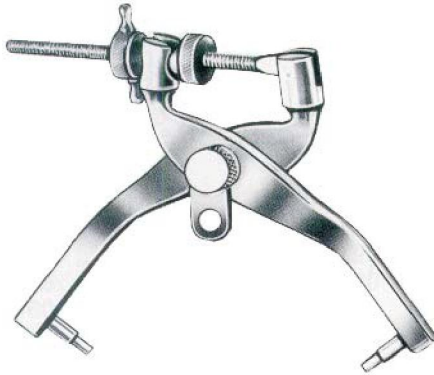


**Woodruff**  
30-10920-13  
13cm/5"



**Jacobi**  
30-10924-14  
14cm/5 1/2"





**Crutchfield**  
31-10948-00



**Crutchfield**  
31-10952-00



31-10956-00



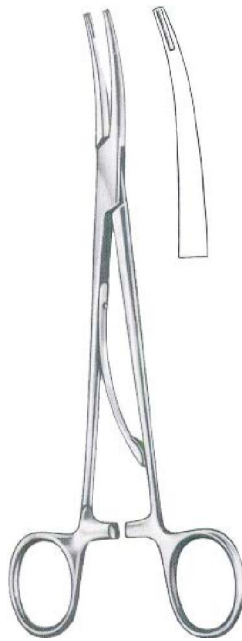
**Crutchfield**  
31-10960-00  
Complete With 2 Drills



ApplyingandRemovingForceps



**Raney**  
 31-10964-00  
 16cm/6 1/4"



**McKenzie**  
 31-10968-1515cm/6"  
 31-10968-1919cm/7 1/2"



**Olivecrona-Tonnis**  
 31-10972-14

Medial



- mm  
 31-10976-4040x20  
 31-10976-4545x20  
 31-10976-5050x20  
 31-10976-5555x20  
 31-10976-6060x20

Lateral



- mm  
 31-10978-4040x20  
 31-10978-4545x20  
 31-10978-5050x20  
 31-10978-5555x20  
 31-10978-6060x20



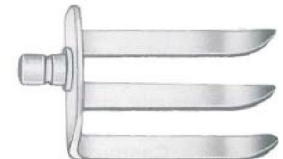
- mm  
 31-10980-4040x20  
 31-10980-4545x20  
 31-10980-5050x20  
 31-10980-5555x20  
 31-10980-6060x20



- BluntBlades, For Taking  
 mm  
 31-10982-50 50x25  
 31-10982-50 60x25



- mm  
 31-10984-3535x52  
 31-10984-4040x52  
 31-10984-4545x52  
 31-10984-5050x52  
 31-10984-5555x52  
 31-10984-6060x52  
 31-10984-6565x52  
 31-10984-7070x52



- mm  
 31-10986-3535x37  
 31-10986-4040x37  
 31-10986-4545x37  
 31-10986-5050x37  
 31-10986-5555x37  
 31-10986-6060x37  
 31-10986-6065x37  
 31-10986-6070x37



- mm  
 31-10988-3535x22  
 31-10988-4040x22  
 31-10988-4545x22  
 31-10988-5050x22  
 31-10988-5555x22  
 31-10988-6060x22  
 31-10988-6565x22  
 31-10988-7070x22

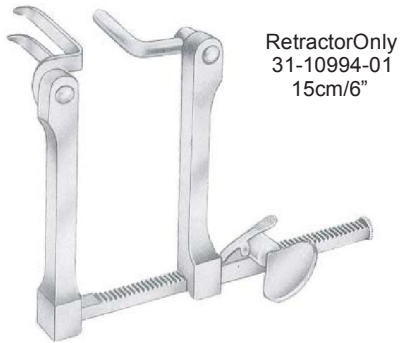


- mm  
 31-10990-5050

Hook



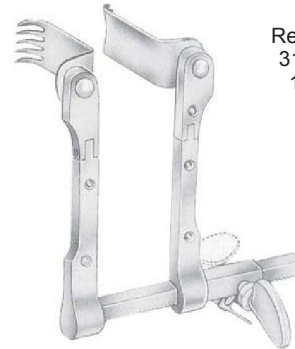
- mm  
 31-10992-7070



RetractorOnly  
 31-10994-01  
 15cm/6"

**Caspar**  
 31-10994-00

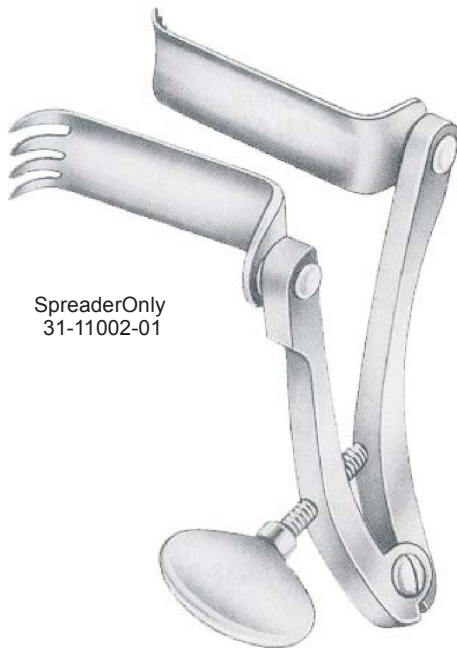
RetractorCompleteWith  
 1BladeEach  
 31-10988-40  
 31-10990-50



RetractorOnly  
 31-10998-01  
 12cm/4 3/4"

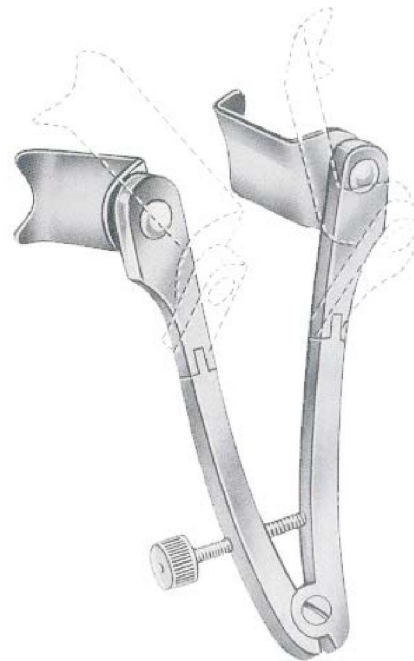
**Caspar**  
 31-10998-00

RetractorCompleteWith  
 1BladeEach  
 31-10976-40  
 31-10978-40



SpreaderOnly  
 31-11002-01

**Caspar**  
 31-11002-00  
 RetractorsOnly  
 SpreaderCompleteWith  
 1BladeEach  
 31-11976-45  
 31-11976-60



SpreaderOnly  
 31-11006-01

**Caspar**  
 31-11006-00  
 SpreaderOnly  
 ReractorCompleteWith  
 1BladeEach  
 31-11980-40  
 31-11980-40

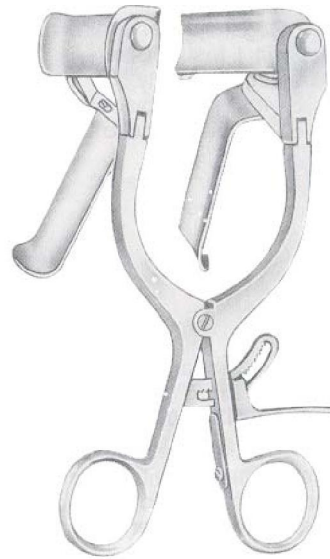
31-11010-01  
 15cm/6"  
 Retractor only

**Caspar**  
 31-11010-00  
 31-10980-45  
 31-10980-65  
 Retractor complete with  
 1 blade each



31-11014-01  
 15cm/6"  
 Retractor only

**Caspar**  
 31-11014-00  
 31-10980-45  
 31-10980-65  
 Retractor adjustable, con  
 1 blade each



31-11018-01  
 Retractor only  
 with 1 fixed blade

**Caspar**  
 31-11018-00  
 Retractor complete,  
 with 5 blades

31-11018-40  
 40mm



31-11018-45  
 45mm



31-11018-50  
 50mm



31-11018-55  
 55mm



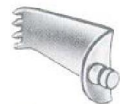
31-11018-60  
 60mm





31-11022-01  
Retractor only

**Cloward**  
 31-11022-00  
 25cm/10"  
 complete with 5 blades



31-11022-40  
15x40mm



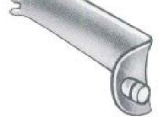
31-11022-45  
15x45mm



31-11022-50  
15x50mm



31-11022-55  
15x55mm



31-11022-60  
15x60mm



31-11026-01  
Retractor only

**Cloward**  
 31-11026-00  
 15cm/6"  
 complete with 5 blades



31-11026-40  
15x40mm



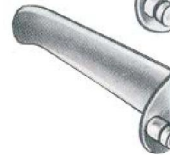
31-11026-45  
15x45mm



31-11026-50  
15x50mm



31-11026-55  
15x55mm



31-11026-60  
15x60mm



**Inge**  
 31-11030-16  
 16cm/6 1/4"



**Inge**  
 31-11032-27  
 27cm/10 3/4"



**Cloward**  
 31-11036-15  
 15cm/6"



**Cloward**  
 31-11040-16  
 16cm/6 1/4"



### Muscleblades



Frame  
31-11044-01

**Hey**  
31-11044-00  
31-11046-00  
23cm/9"



31-11044-50  
20x50mm

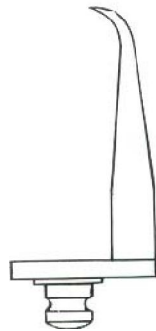


31-11044-60  
20x60mm



31-11044-70  
20x70mm

### Vertebra-pins



31-11046-50  
50mm



31-11046-60  
60mm



31-11046-70  
70mm



Left-type

Right-type

50x10mm

31-11050-01

31-11052-01

60x10mm

31-11050-02

31-11052-02

70x10mm

31-11050-03

31-11052-03

50x20mm

31-11054-01

31-11056-01

60x20mm

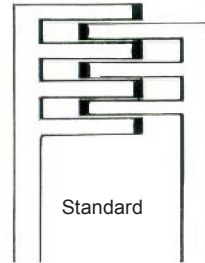
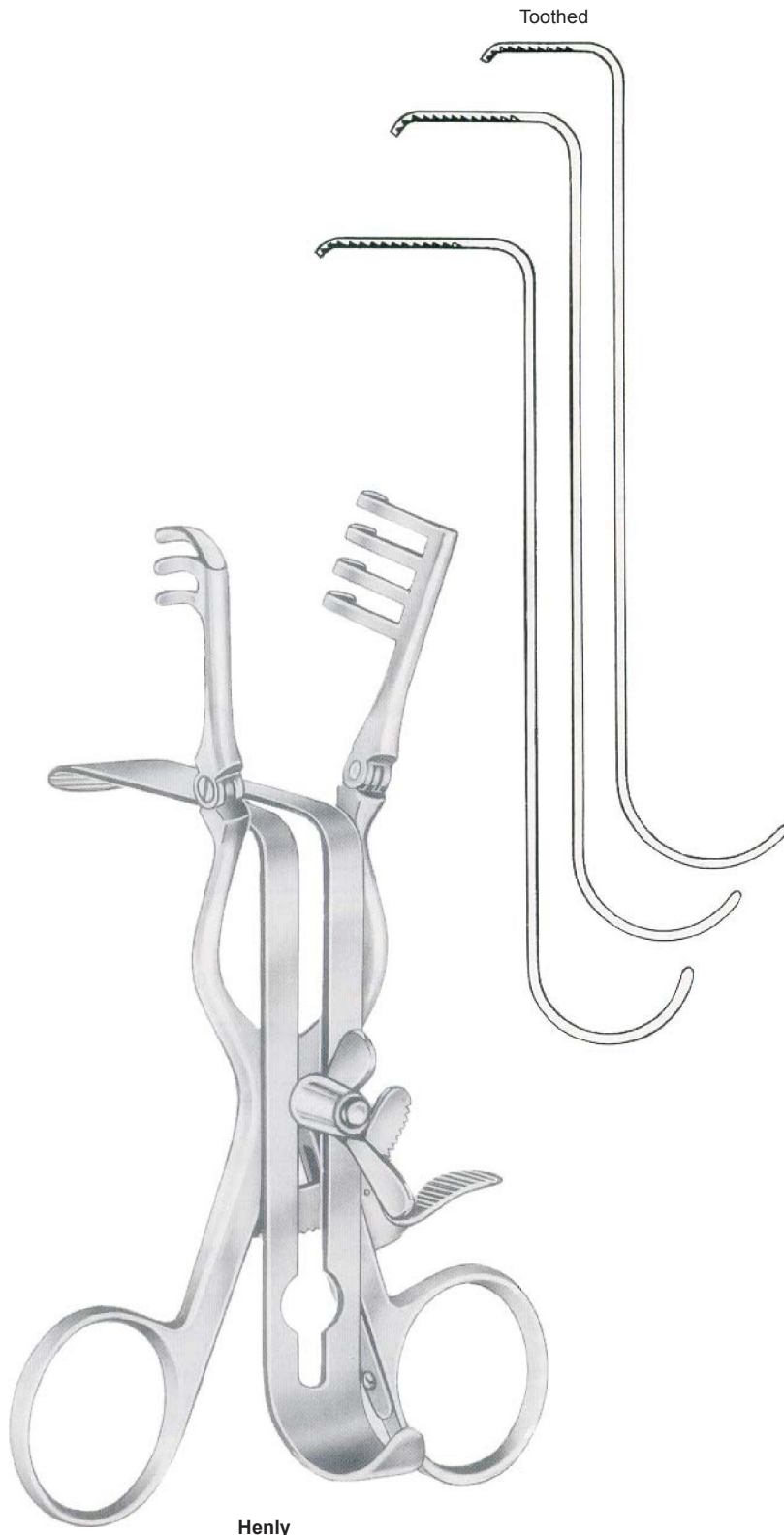
31-11054-02

31-11056-02

70x20mm

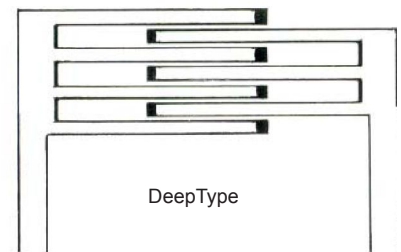
31-11054-03

31-11056-03



31-11060-00 Complete 31-11062-00  
 14.5cm/5 3/4" Consistingof 17cm/6 3/4"

31-11060-01 Frame 31-11062-01  
 31-11060-21 CentreBlades 31-11060-21  
 31-11060-22 31-11060-22  
 31-11060-23 31-11060-23



31-11064-00 Complete 31-11066-00  
 14.5cm/5 3/4" Consistingof 17cm/6 3/4"

31-11060-01 CentreBlades 31-11066-01  
 31-11060-21 31-11060-21  
 31-11060-22 31-11060-22  
 31-11060-23 31-11060-23



**Davis**  
 31-11070-24  
 24.5cm/9 3/4"



**Toennis**  
 31-11074-25  
 25cm/10"



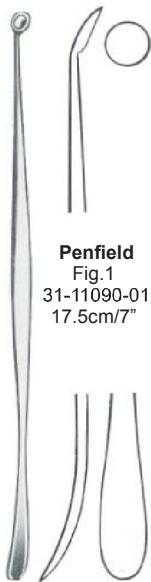
**Frazier**  
 31-11078-15

**Hoenn**  
 31-11080-15

**Hoenn**  
 31-11082-15



**Love-Adson**  
 31-11086-16  
 16cm/6 1/2"



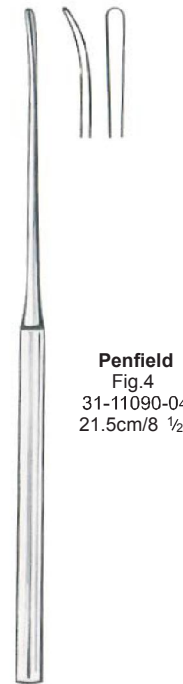
**Penfield**  
 Fig.1  
 31-11090-01  
 17.5cm/7"



**Penfield**  
 Fig.2  
 31-11090-02  
 19.5cm/7 3/4"



**Penfield**  
 Fig.3  
 31-11090-03  
 19.5cm/7 3/4"



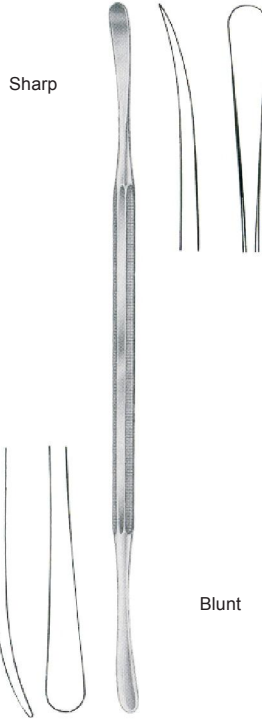
**Penfield**  
 Fig.4  
 31-11090-04  
 21.5cm/8 1/2"



**Penfield**  
 Fig.5  
 31-11090-05  
 29cm/11 1/2"



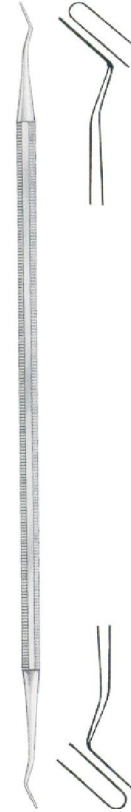
**Sachs**  
 31-11094-21  
 21cm/8 1/4"



Sharp

Blunt

31-11098-22  
 22cm/8 1/4"



**Woodsen**  
 31-11102-25  
 25cm/10"



**Fragel**  
 31-11106-20  
 20cm/8"



**Fragel**  
 31-11108-20  
 20cm/8"



**Sachs**  
 31-11112-21  
 21cm/8 1/4"



**Milligan**  
31-11116-21  
21cm/8 1/4"



**Olivecrona**  
31-11120-1818cm/7"  
31-11120-2424cm/9 1/2"



**Olivecrona**  
31-11124-19 19.5cm/7 3/4"  
31-11124-24 24cm/9 1/2"



**Horsley**  
31-11128-20  
20cm/8"



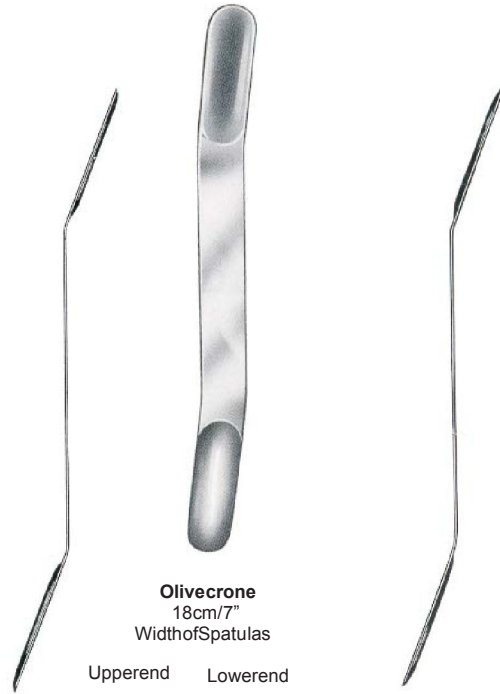
**Sachs**  
31-11132-21  
21cm/8 1/4"





**Cushing**  
 17cm/6 ¾"  
 20cm/8"  
 28cm/11"

- 31-11136-17
- 31-11136-20
- 31-11136-28



**Olivecrona**  
 18cm/7"  
 WidthofSpatulas

	Upperend	Lowerend	
Concave	mm	mm	Convex
31-11140-01	7	9	31-11142-01
31-11140-02	11	13	31-11142-02
31-11140-03	15	18	31-11142-03
31-11140-04	18	22	31-11142-04



**Heifetz**  
 20cm/8"

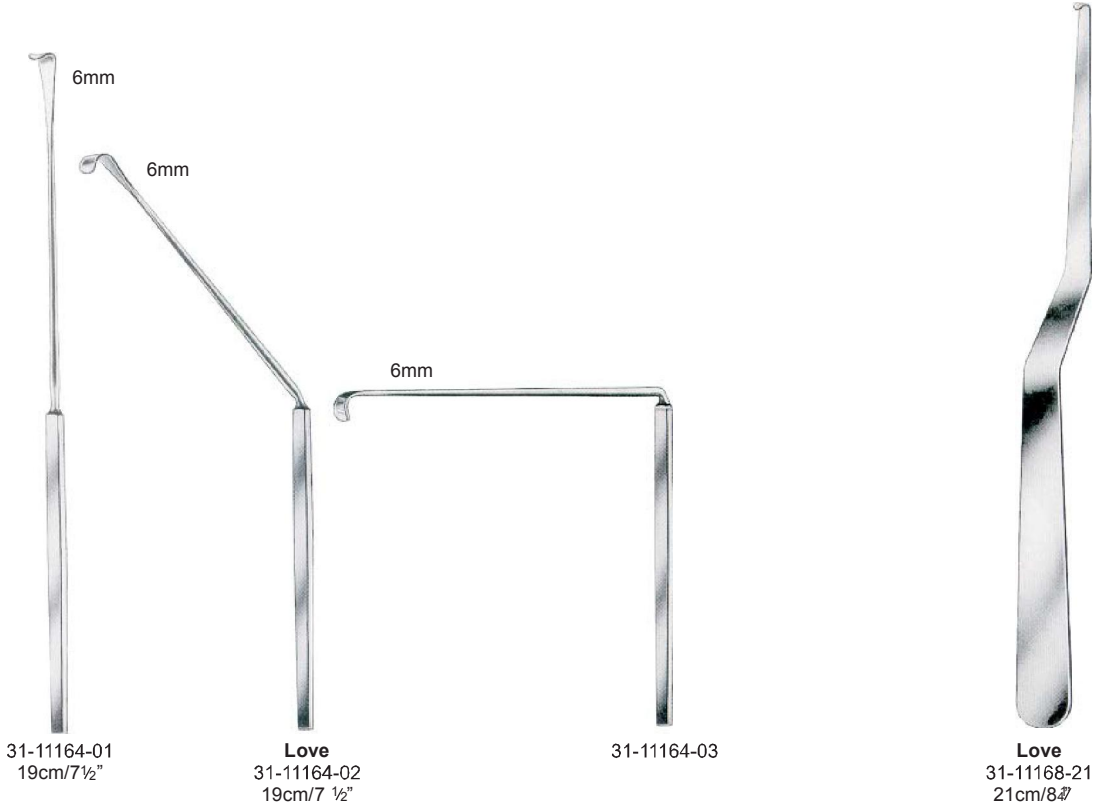
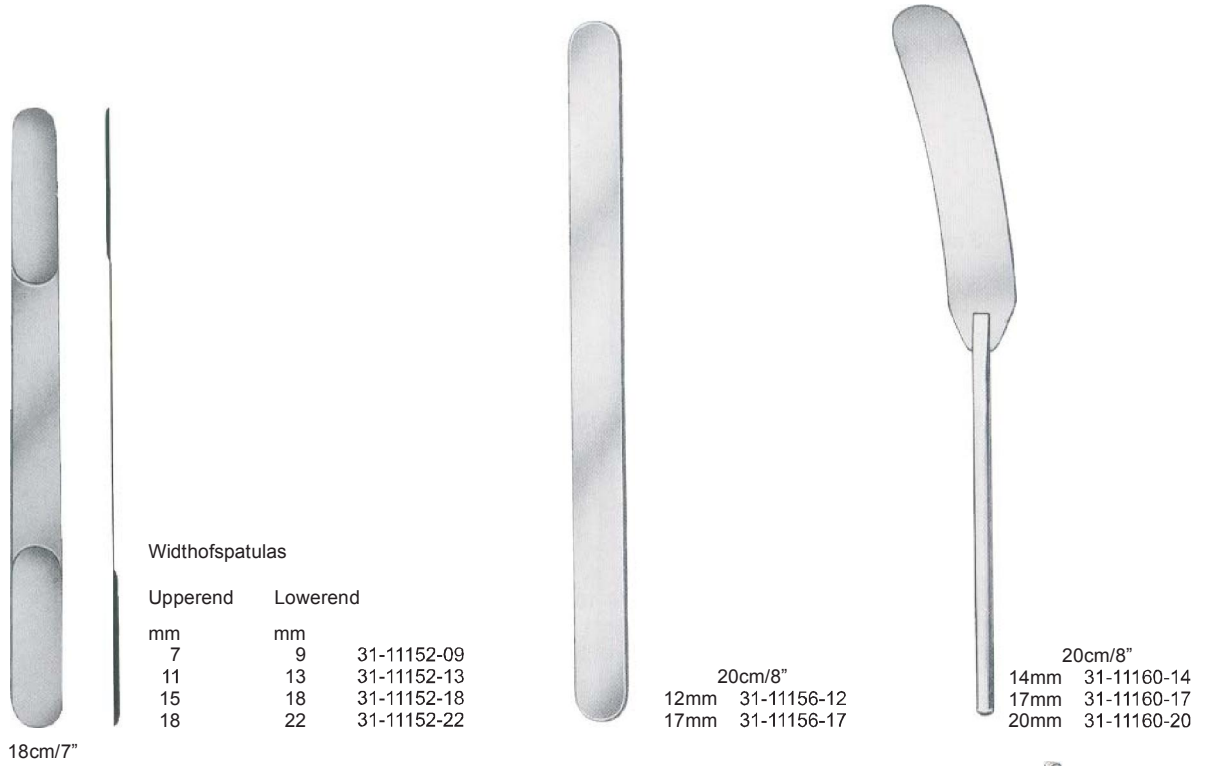
WidthofSpatulas		
Upperend		Lowerend
mm		mm
7	31-11144-08	8
10	31-11144-11	11
13	31-11144-14	14
16	31-11144-17	17
19	31-11144-20	20
22	31-11144-25	22



**Heifetz**  
 15.5cm/6"

WidthofSpatulas	
	mm
31-11148-08	8
31-11148-11	11
31-11148-14	14
31-11148-17	17

LengthofSpatulas



### Lengthofspatulas



70mm  
3mm 31-11172-03

100mm  
31-11174-03



5mm 31-11172-05

31-11174-05



7mm 31-11172-07

31-11174-07



**Love**



**Scoville**  
23cm/9"

7mm 31-11176-07  
9mm 31-11176-09



**Holsher**  
7mm 31-11177-07  
9mm 31-11177-09  
24cm/9 1/2"



8mm 31-11179-08  
13mm 31-11179-13



**Taylor**  
 30x 70mm 31-11180-07 17cm/6 3/4"  
 30x100mm 31-11180-10 17cm/6 3/4"



**Oldberg**  
 21cm/8 1/4"



31-11182-01



31-11182-02



31-11182-03



31-11182-04



**Cushing**  
 31-11184-19 19cm/7 3/4"  
 31-11184-28 28cm/11"



**Smithwick**  
 31-11188-17 17cm/6 1/2"  
 31-11188-21 21cm/8 1/4"



**Cushnig**  
 31-11190-14 14cm/5 1/2"



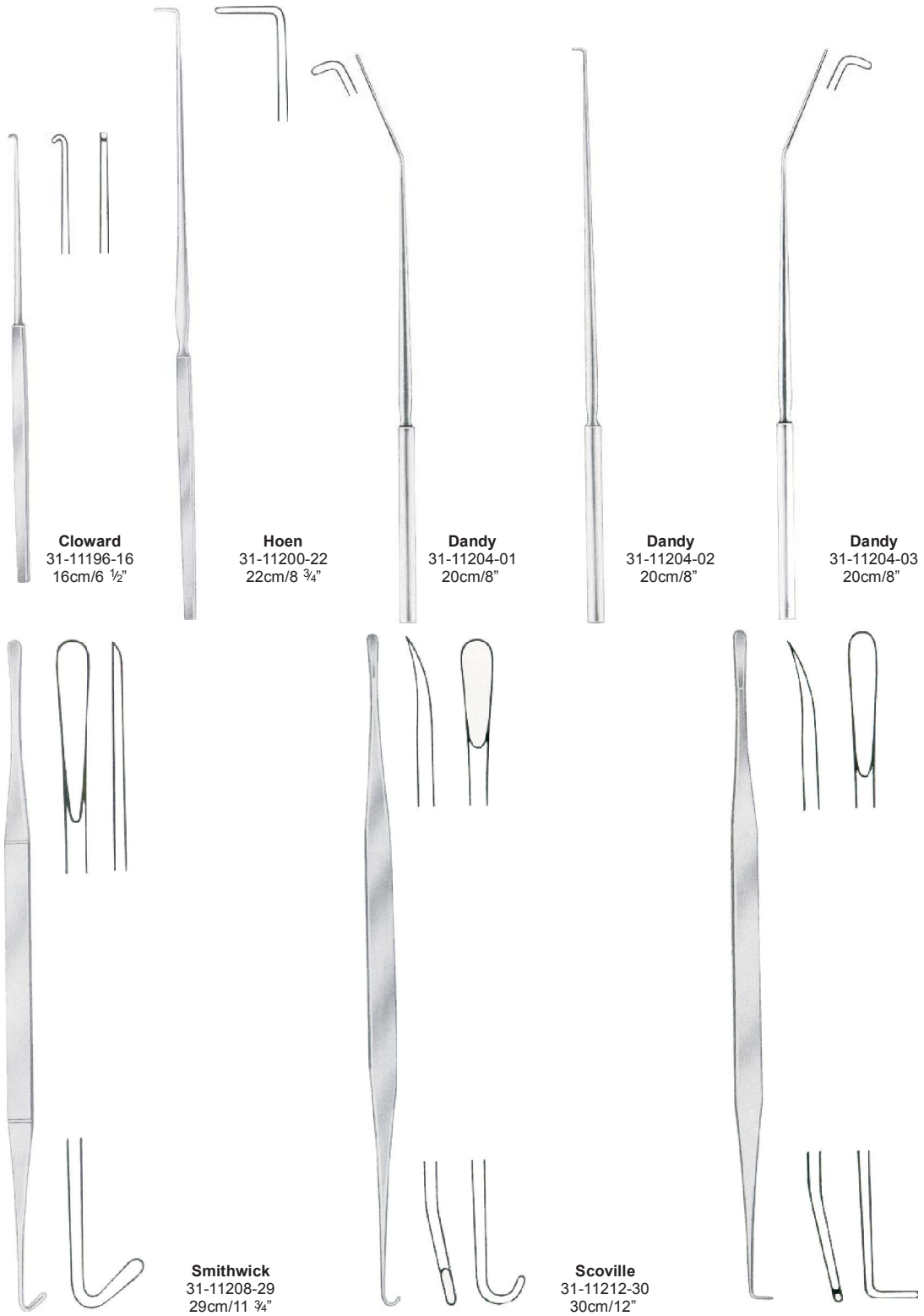
**Adson**  
 20cm/8"



31-11192-01



31-11192-02





**Graham**  
 31-11218-16  
 16.5cm/6 ½"



**Toennis**  
 31-11222-15  
 15cm/6"



**Frazier**  
 31-11226-13 13cm/5"  
 31-11226-18 18cm/7"



**Toennis**  
 31-11230-13 13cm/5"  
 31-11230-18 18cm/7"



**Olivecrona**  
 31-11234-23  
 23cm/9"



**Olivecrona**  
 31-11236-20  
 20.5cm/8"




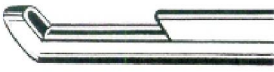



**Ferris-Smith-Kerrison**

	Width of Bite	Length of Shaft		
		15cm/6"	20cm/8"	18cm/7"
Cutting Upward	0.6 mm			31-11252-00
	1 mm			31-11252-01
	2 mm			31-11252-02
	3 mm	31-11240-03	31-11246-03	31-11252-03
	4 mm			31-11252-04
Cutting Upward 40°	0.6 mm			31-11254-00
	1 mm			31-11254-01
	2 mm			31-11254-02
	3 mm	31-11242-03	31-11248-03	31-11254-03
	4 mm			31-11254-04
Cutting Downwards	0.6 mm			31-11256-00
	1 mm			31-11256-01
	2 mm			31-11256-02
	3 mm	31-11244-03	31-11250-03	31-11256-03
	4 mm			31-11256-04
	5 mm	31-11244-05	31-11250-05	31-11256-05



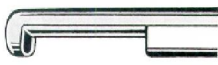



**Ferris-Smith-Kerrison**

		Width of Bite	Length of Shaft		
			15cm/6"	20cm/8"	18cm/7"
Cutting Upward		3mm 5mm	31-11260-03 31-11260-05	31-11266-03 31-11266-05	31-11272-03 31-11272-05
Cutting Upward 40°		3mm 5mm	31-11262-03 31-11262-05	31-11268-03 31-11268-05	
Cutting Downward		3mm 5mm	31-11264-03 31-11264-05	31-11270-03 31-11270-05	31-11274-03 31-11274-05






Love-Kerrison

		Width of Bite		Length of Shaft		
		2mm	3mm	15cm/6"	20cm/8"	18cm/7"
Cutting Upward		2mm				31-11286-02
		3mm	31-11278-03	31-11282-03		31-11286-03
		4mm	31-11278-04	31-11282-04		31-11286-04
		5mm	31-11278-05	31-11282-05		31-11286-05
		6mm				31-11286-06
Cutting Upward 40°		2mm				31-11288-02
		3mm				31-11288-03
		4mm				31-11288-04
		5mm				31-11288-05
		6mm				31-11288-06
Cutting Downward		2mm				31-11290-02
		3mm	31-11280-03	31-11284-03		31-11290-03
		4mm	31-11280-04	31-11284-04		31-11290-04
		5mm	31-11280-05	31-11284-05		31-11290-05
		6mm				31-11290-06
Cutting Upward 40°		2mm				31-11292-02
		3mm				31-11292-03
		4mm				31-11292-04
		5mm				31-11292-05
		6mm				31-11292-06



Colclough

		Width of Bite	Length of Shaft	
			15cm/6"	20cm/8"
Cutting Upward		3mm 5mm	31-11296-03 31-11296-05	31-11302-03 31-11302-05
Cutting Upward 40°		3mm 5mm	31-11298-03 31-11298-05	31-11304-03 31-11304-05
Cutting Downward		3mm 5mm	31-11300-03 31-11300-05	31-11306-03 31-11306-05

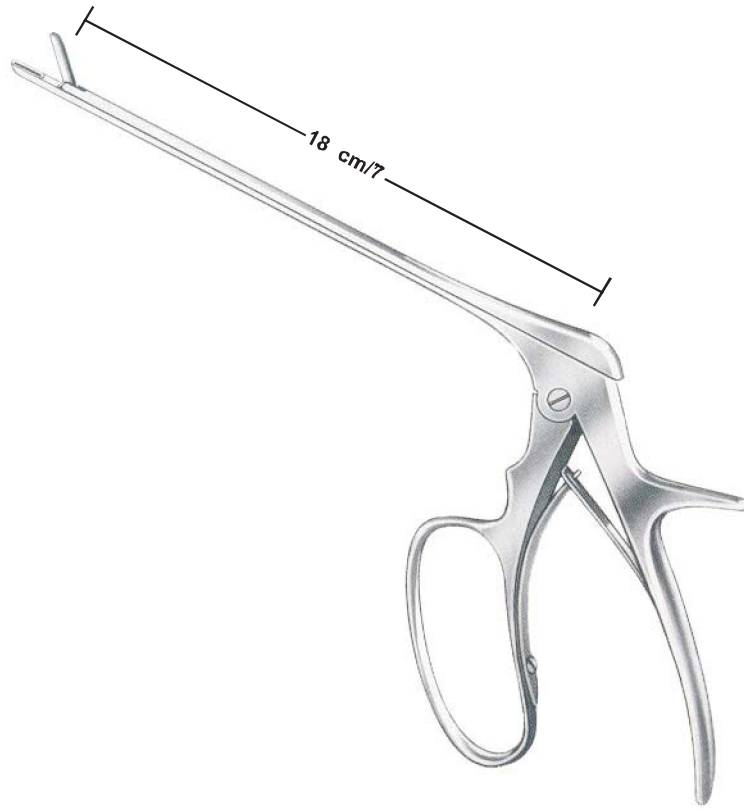


	LengthOfShaft			
<b>Cushing</b> 2x10cm	5"/13cm	31-11310-01	31-11310-02	31-11310-03
	6"/15cm	31-11312-01	31-11312-02	31-11312-03
	7"/18cm	31-11314-01	31-11314-02	31-11314-03
<b>Love-Grunwald</b> 3x10cm	5"/13cm	31-11316-01	31-11316-02	31-11316-03
	6"/15cm	31-11318-01	31-11318-02	31-11318-03
	7"/18cm	31-11320-01	31-11320-02	31-11320-03
<b>Spurling</b> 4x10cm	5"/13cm	31-11322-01	31-11322-02	31-11322-03
	6"/15cm	31-11324-01	31-11324-02	31-11324-03
	7"/18cm	31-11326-01	31-11326-02	31-11326-03



	LengthOfShaft			
<b>Cushing</b> 2x10cm	5"/13cm	31-11330-01	31-11330-02	31-11330-03
	6"/15cm	31-11332-01	31-11332-02	31-11332-03
	7"/18cm	31-11334-01	31-11334-02	31-11334-03
<b>Love-Grunwald</b> 3x10cm	5"/13cm	31-11336-01	31-11336-02	31-11336-03
	6"/15cm	31-11338-01	31-11338-02	31-11338-03
	7"/18cm	31-11340-01	31-11340-02	31-11340-03
<b>Spurling</b> 4x10cm	5"/13cm	31-11342-01	31-11342-02	31-11342-03
	6"/15cm	31-11344-01	31-11344-02	31-11344-03
	7"/18cm	31-11346-01	31-11346-02	31-11346-03



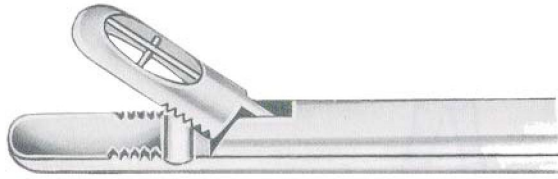


**Ferris-Smith**

WidhOfJaw



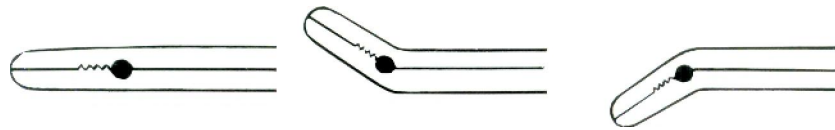
2x10mm	31-11350-01	31-11350-02	31-11350-03
3x10mm	31-11352-01	31-11352-02	31-11352-03
4x10mm	31-11354-01	31-11354-02	31-11354-03



Serrated and Fenestrated Jaws

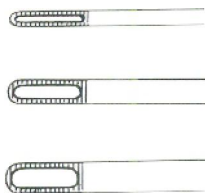


Bonjour, êtes-vous là maintenant



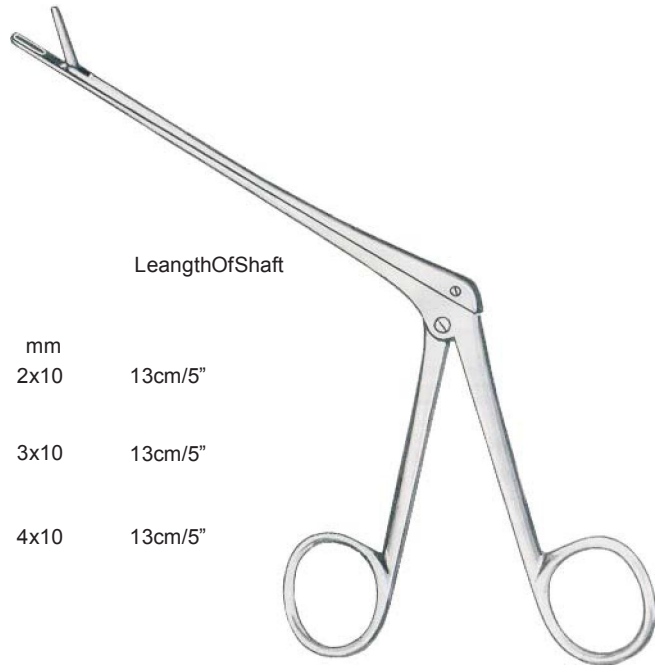
Width Of Jaw	Length Of Shaft			
mm	14cm/5 1/2"	31-11358-01	31-11358-02	31-11358-03
	16cm/6 1/4"	31-11360-01	31-11360-02	31-11360-03
2x12	14cm/5 1/2"	31-11362-01	31-11362-02	31-11362-03
	16cm/6 1/4"	31-11364-01	31-11364-02	31-11364-03
3x12	14cm/5 1/2"	31-11366-01	31-11366-02	31-11366-03
	16cm/6 1/4"	31-11368-01	31-11368-02	31-11368-03
4x14	14cm/5 1/2"	31-11370-01	31-11370-02	31-11370-03
	16cm/6 1/4"	31-11372-01	31-11372-02	31-11372-03
5x14	14cm/5 1/2"	31-11374-01	31-11374-02	31-11374-03
	16cm/6 1/4"	31-11376-01	31-11376-02	31-11376-03
6x16	14cm/5 1/2"			
	16cm/6 1/4"			

Serrated Jaws



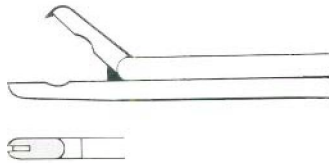
		mm	
31-11378-02	2x10	13cm/5"	
31-11378-03	3x10	13cm/5"	
31-11378-04	4x10	13cm/5"	

Length of Shaft

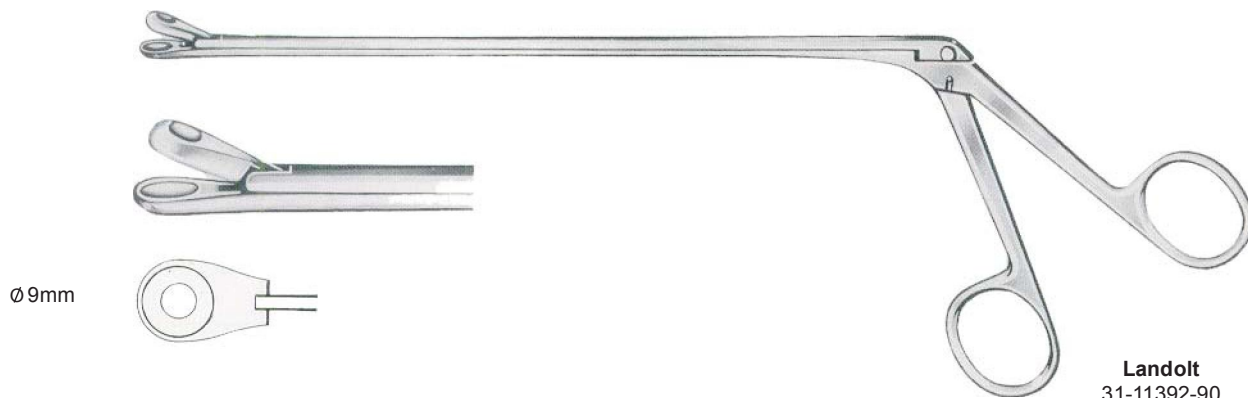
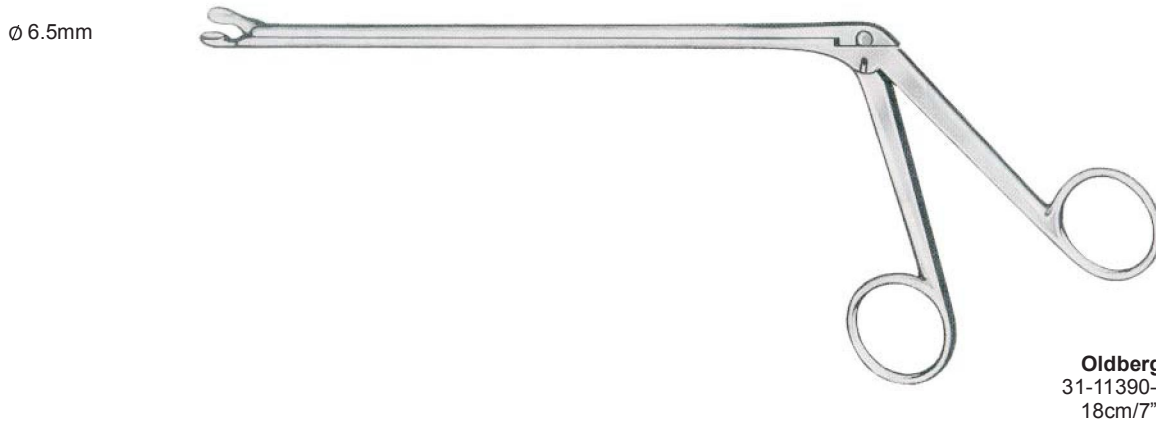
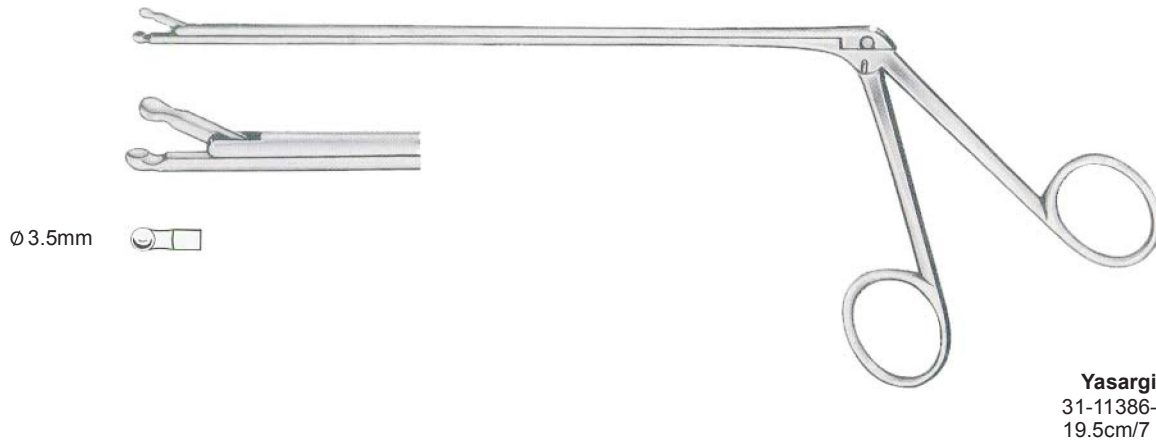


Schlesinger

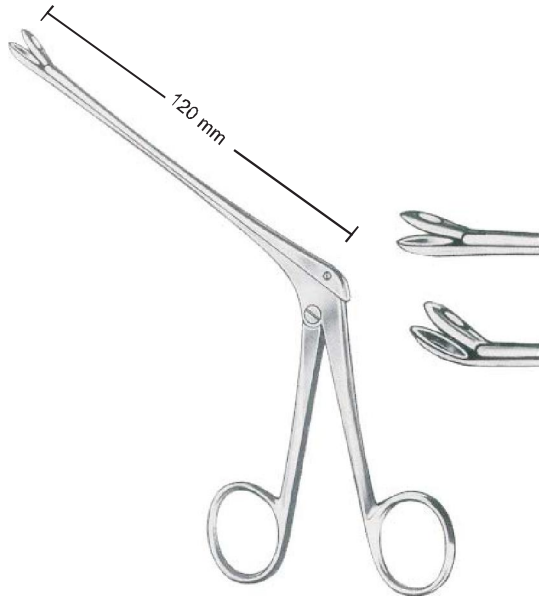
Grasping Forceps



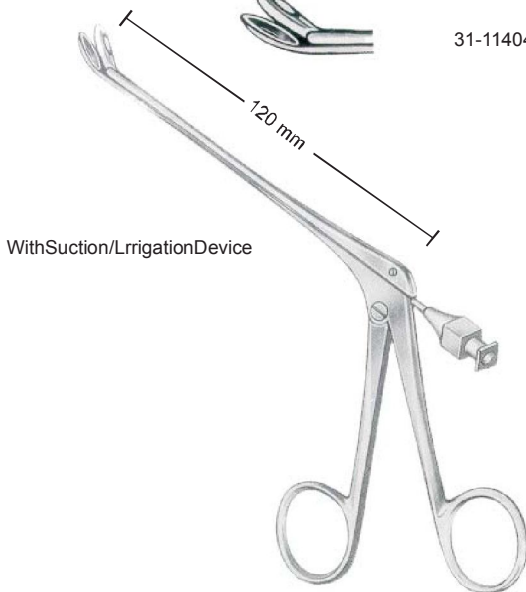
31-11382-16



TumorGraspingForcepsBlunt

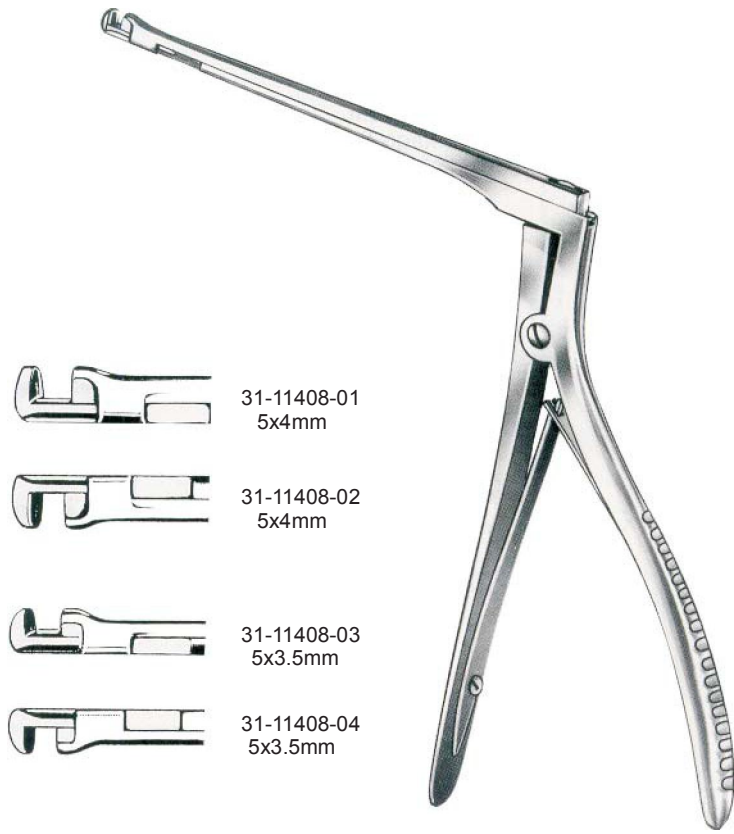


**Weil-Blakesley**



With Suction/Irrigation Device

**Weil-Blakesley**



31-11408-01  
5x4mm

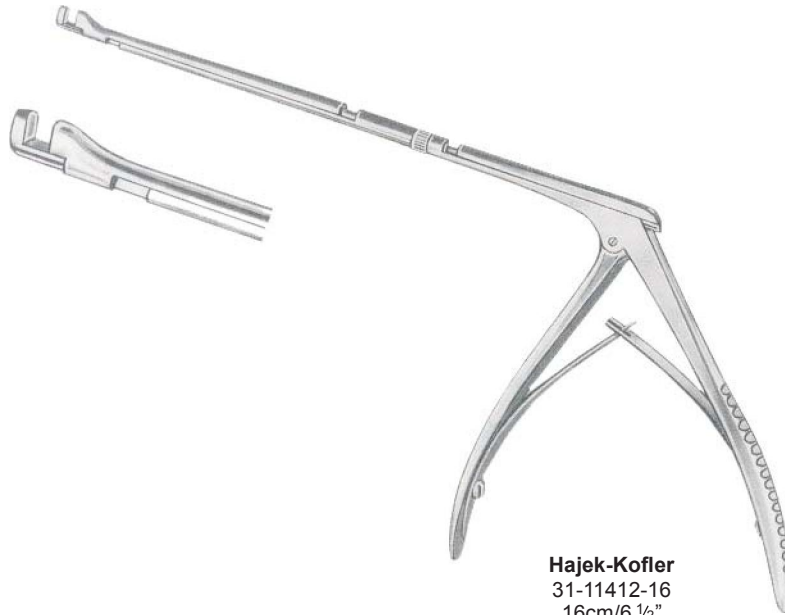
31-11408-02  
5x4mm

31-11408-03  
5x3.5mm

31-11408-04  
5x3.5mm

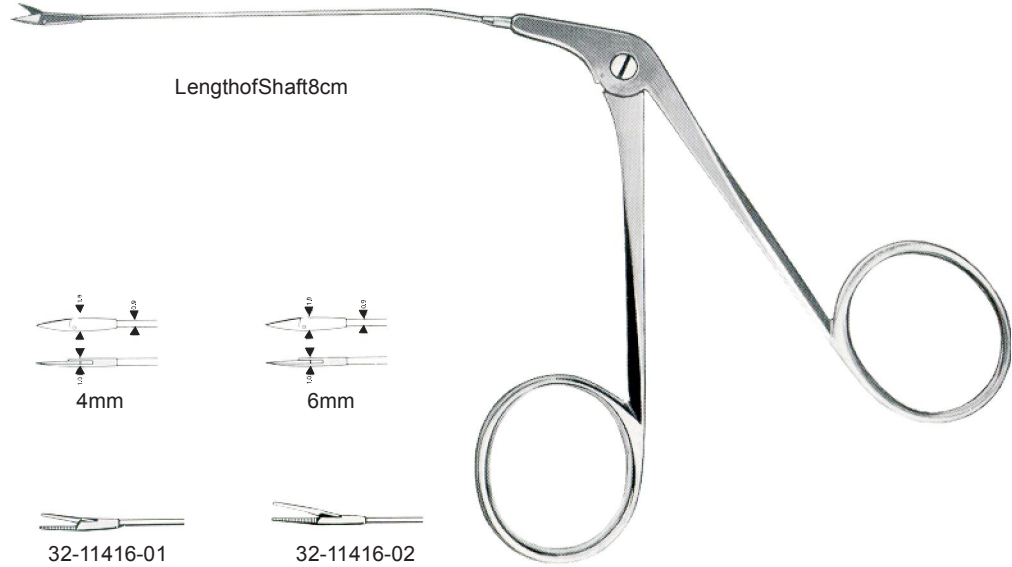
**Hajek  
(Hajek-Kofler)**  
14cm/5 1/2"

360° Turnable

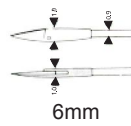
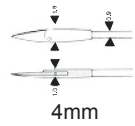


**Hajek-Kofler**  
31-11412-16  
16cm/6 1/2"





MicroForceps



Straight



AngledUp



Straight

32-11418-01  
Ø1mm

OvalCupJaws

32-11418-02

MicroScissors

Straight



AngledUp

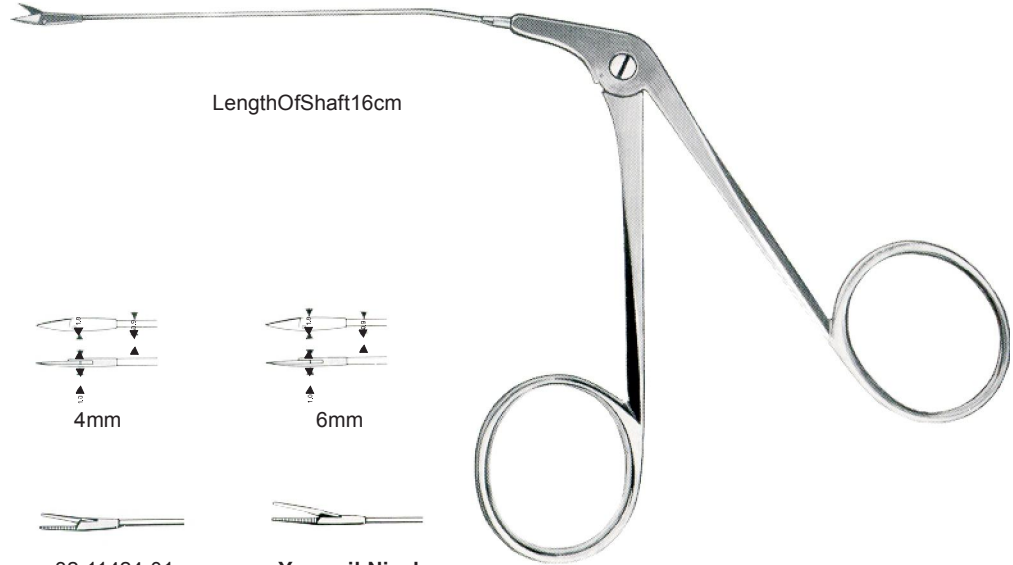


CurvedRight



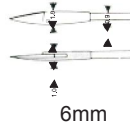
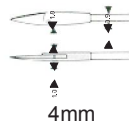
CurvedLeft





LengthOfShaft16cm

MicroForceps



Straight



AngledUp



Cup-ShapedForceps

Straight



OvalCupJaws



MicroForceps

Straight



AngledUp



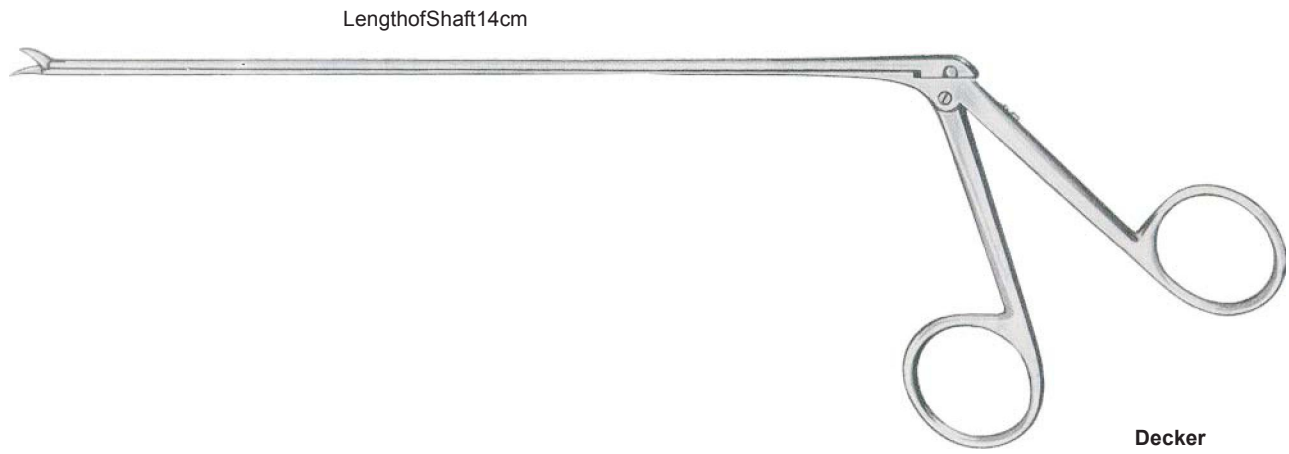
CurvedRight



CurvedLeft



## MicroScissors



Straight  
32-11430-01



CurvedRight  
32-11430-02



CurvedLeft  
32-11430-03



**Jacobson**  
 32-11432-00  
 18.5cm/7 1/4"



**Koos**  
 32-11432-01  
 18.5cm/7 1/4"



**Koos**  
 32-11432-02  
 18.5cm/7 1/4"



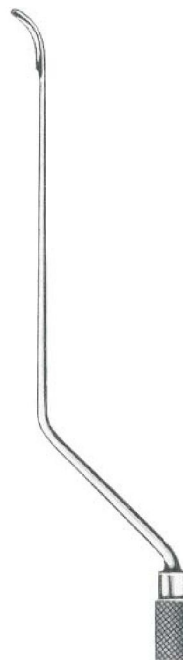
**Koos**  
 32-11432-03  
 18.5cm/7 1/4"



**Koos**  
 32-11432-04  
 18.5cm/7 1/4"



**Koos**  
 32-11434-01  
 18.5cm/7 1/4"



**Koos**  
 32-11434-02  
 18.5cm/7 1/4"



**Yasargil**  
 32-11434-03  
 18.5cm/7 1/4"



**Yasargil**  
 32-11434-04  
 18.5cm/7 1/4"





32-11444-01  
18.5cm/7 1/4"



32-11444-02  
18.5cm/7 1/4"



**Krayenbuhl**  
32-11448-01  
18.5cm/7 1/4"



32-11448-02



32-11448-03



32-11448-04



**Yasargil**  
32-11450-01  
18.5cm/7 1/4"



**Yasargil**  
32-11450-02  
18.5cm/7 1/4"



**Yasargil**  
32-11450-03  
18.5cm/7 1/4"



**Yasargil**  
32-11450-04  
18.5cm/7 1/4"







**Rhoton**  
19cm/7 1/2"



DissectorRound  
32-11470-01  
Ø1mm



DissectorRound  
32-11470-02  
Ø2mm



DissectorRound  
32-11470-03  
Ø3mm



DissectorSpatulaShaped  
32-11470-04  
Ø1mm



DissectorSpatulaShaped  
32-11470-05  
Ø1.5mm



DissectorSpatulaShaped  
32-11470-06  
Ø2.0mm



Elevator  
32-11470-07  
Ø1.2mm



Elevator  
32-11470-08  
Ø2.8mm

je ne sers pas d'abord



NeedleSemi-Sharp  
32-11470-09



HookBlunt  
32-11470-10  
90° 2mm



HookSemi-Sharp  
32-11470-11  
90° 2mm



HookSemi-Sharp  
32-11470-12  
45° 3mm



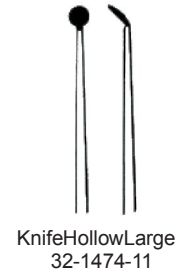
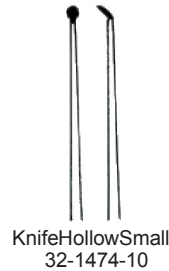
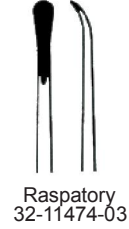
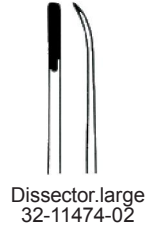
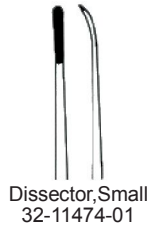
ProbeAngled  
32-11470-13  
90°



ProbeAngled  
32-11470-14  
1.0x2.0mm



ProbeAngled  
32-11470-15  
1.0x2.0mm  
45°





19cm/7 1/2"



MicroDissectors  
32-11478-01  
2mm



32-11478-02  
5mm



32-11478-03  
8mm

NerveHooks



32-11478-04  
3mm



32-11478-05  
5mm

MicroLigatureNeedle



**Samil**  
20cm/8"  
23cm/9"



32-11482-01  
32-11484-01  
1.0x5.0mm

20cm/8"  
23cm/9"



32-11482-02  
32-11484-02  
1.5x5.0mm



32-11482-03  
32-11484-03  
2.0x5.5mm

20cm/8"  
23cm/9"



32-11482-04  
32-11484-04  
2.5x6.0mm



32-11482-05  
32-11484-05  
3.0x7.0mm

20cm/8"  
23cm/9"



32-11482-06  
32-11484-06  
3.5x7.0mm



32-11482-07  
32-11484-07  
4.0x7.5mm

20cm/8"  
23cm/9"



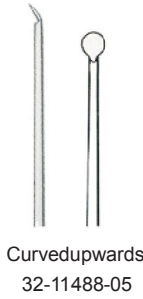
32-11482-08  
32-11484-08  
5.0x8.0mm



WorkingLength  
12.5cm/5"

24cm/9 1/2"

- Angaledup 32-11488-01
- Curveddown 32-11488-02
- Curvedright 32-11488-03
- Curvedleft 32-11488-04



Curvedupwards  
32-11488-05



Angledup  
32-11488-06  
1.0x1.0mm



Angledup  
32-11488-07  
2.5x5mm



Curvedup  
32-11488-08  
1.0x4mm



Curvedup  
32-11488-09  
1.5x5mm



Straight  
32-11488-10  
0.4mm

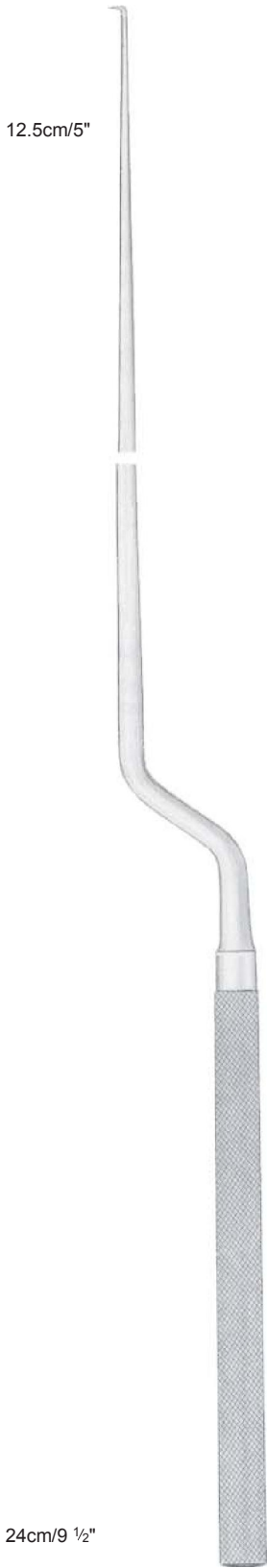


Curvedup  
32-11488-11  
2.0x6mm



- AngledUp 32-11488-12  
3x5mm
- AngledToRight 32-11488-13  
3x5mm
- AngledToLeft 32-11488-14  
3x5mm





12.5cm/5"

24cm/9 1/2"

AngledUp  
CurvedRight  
CurvedLeft

Blunt  
32-11492-01  
32-11494-01  
32-11496-01  
90° 2mm

Blunt  
32-11492-02  
32-11494-02  
32-11496-02  
90° 2.5mm

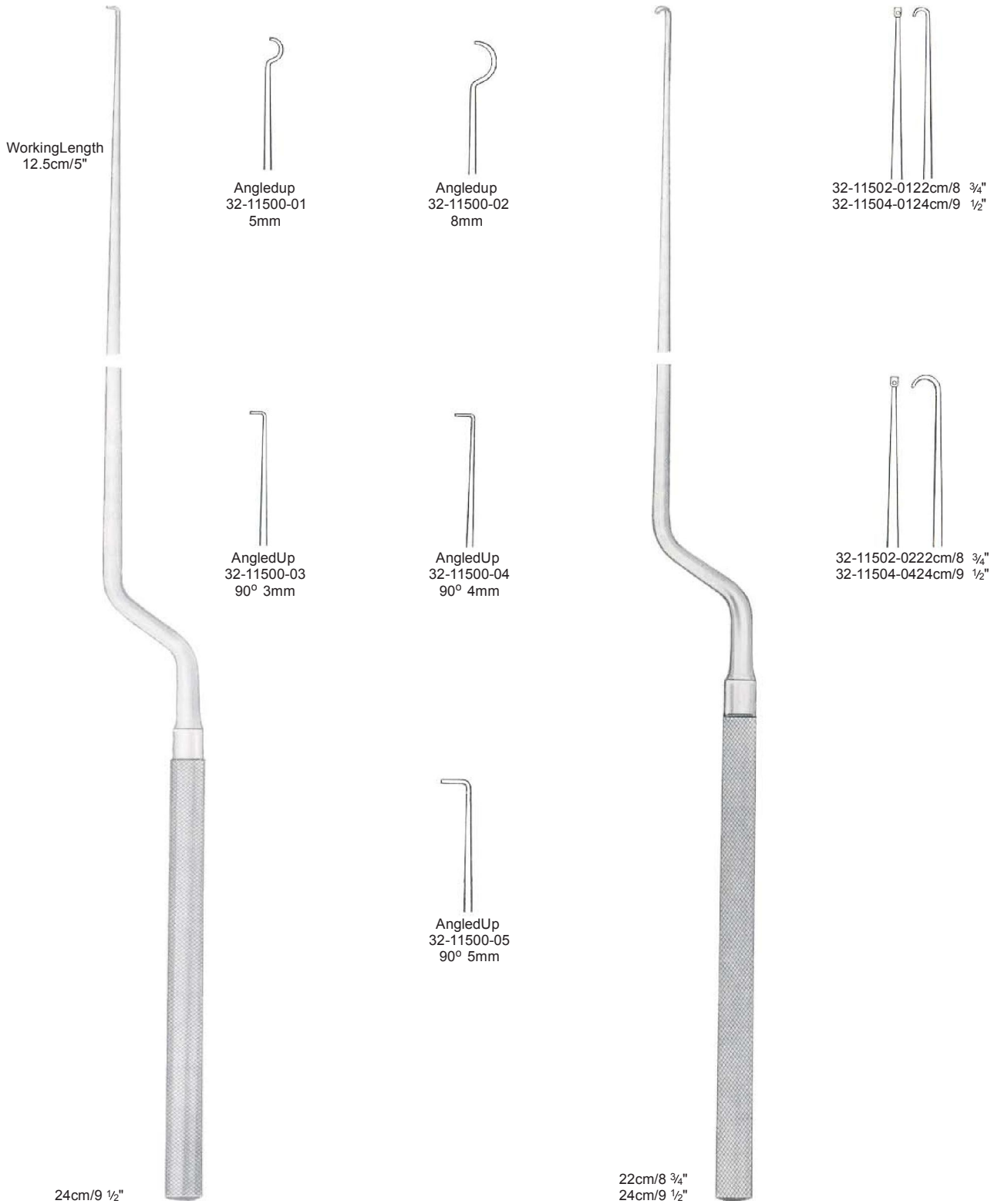
Semi-Sharp  
32-11492-03  
32-11494-03  
32-11496-03  
90° 2mm

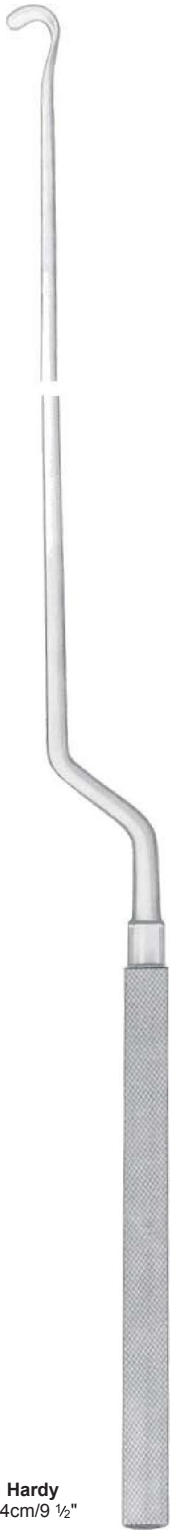
AngledUp  
CurvedRight  
CurvedLeft

Blunt  
32-11492-04  
32-11494-04  
32-11496-04  
90° 3mm

BallPointed  
32-11492-05  
32-11494-05  
32-11496-05  
90° 3mm

Blunt  
32-11492-06  
32-11494-06  
32-11496-06  
30° 3mm





**Hardy**  
24cm/9 1/2"

SickleDissectors



AngledUp 32-11508-01  
 CurvedDown 32-11508-02  
 CurvedRight 32-11508-03  
 CurvedLeft 32-11508-04



**Hardy**

**ImplantFork**  
32-11508-07



AngledUp 32-11508-08  
 CurvedDown 32-11508-09  
 CurvedRight 32-11508-10  
 CurvedLeft 32-11508-11

2mm



**Hardy-Fahlbusch**  
32-11508-05



**Hardy-Fahlbusch**  
32-11508-06

4mm



AngledUp 32-11508-12  
 CurvedDown 32-11508-13



SpatulaDissectors



CurvedUpFlexible  
 32-11512-01  
 8x100mm

CurvedDownFlexible  
 32-11512-02  
 8x100mm



Straight  
 32-11512-03  
 5x20mm



32-11512-06  
 32-11512-07  
 2mm

DissectorsAngled



SharpAngledUp  
 32-11512-04  
 5mm  
 SharpAngledDown  
 32-11512-05








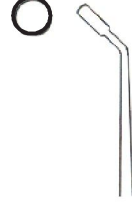
Raspatories

CurvedUp  
 CurvedDown

32-11512-08  
 32-11512-09  
 4mm



24cm/9 1/2"

Right	Up Down Right Left			
		32-11516-01 32-11518-01 32-11520-01 32-11522-01 Ø2.5mm 90°	32-11516-02 32-11518-02 32-11520-02 32-11522-02 Ø4.0mm 90°	32-11516-03 32-11518-03 32-11520-03 32-11522-03 Ø5.0mm 90°
		32-11516-04 32-11518-04 32-11520-04 32-11522-04 25mm 45°	32-11516-05 32-11518-05 32-11520-05 32-11522-05 40mm 45°	32-11516-06 32-11518-06 32-11520-06 32-11522-06 5mm 45°
	Down			
		32-11516-04 32-11518-04 32-11520-04 32-11522-04 25mm 45°	32-11516-05 32-11518-05 32-11520-05 32-11522-05 40mm 45°	32-11516-06 32-11518-06 32-11520-06 32-11522-06 5mm 45°
		32-11516-04 32-11518-04 32-11520-04 32-11522-04 25mm 45°	32-11516-05 32-11518-05 32-11520-05 32-11522-05 40mm 45°	32-11516-06 32-11518-06 32-11520-06 32-11522-06 5mm 45°

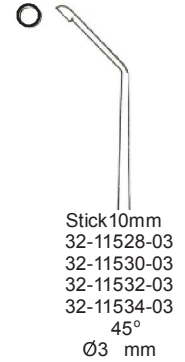


24cm/9 1/2"

Malleable



WithStick

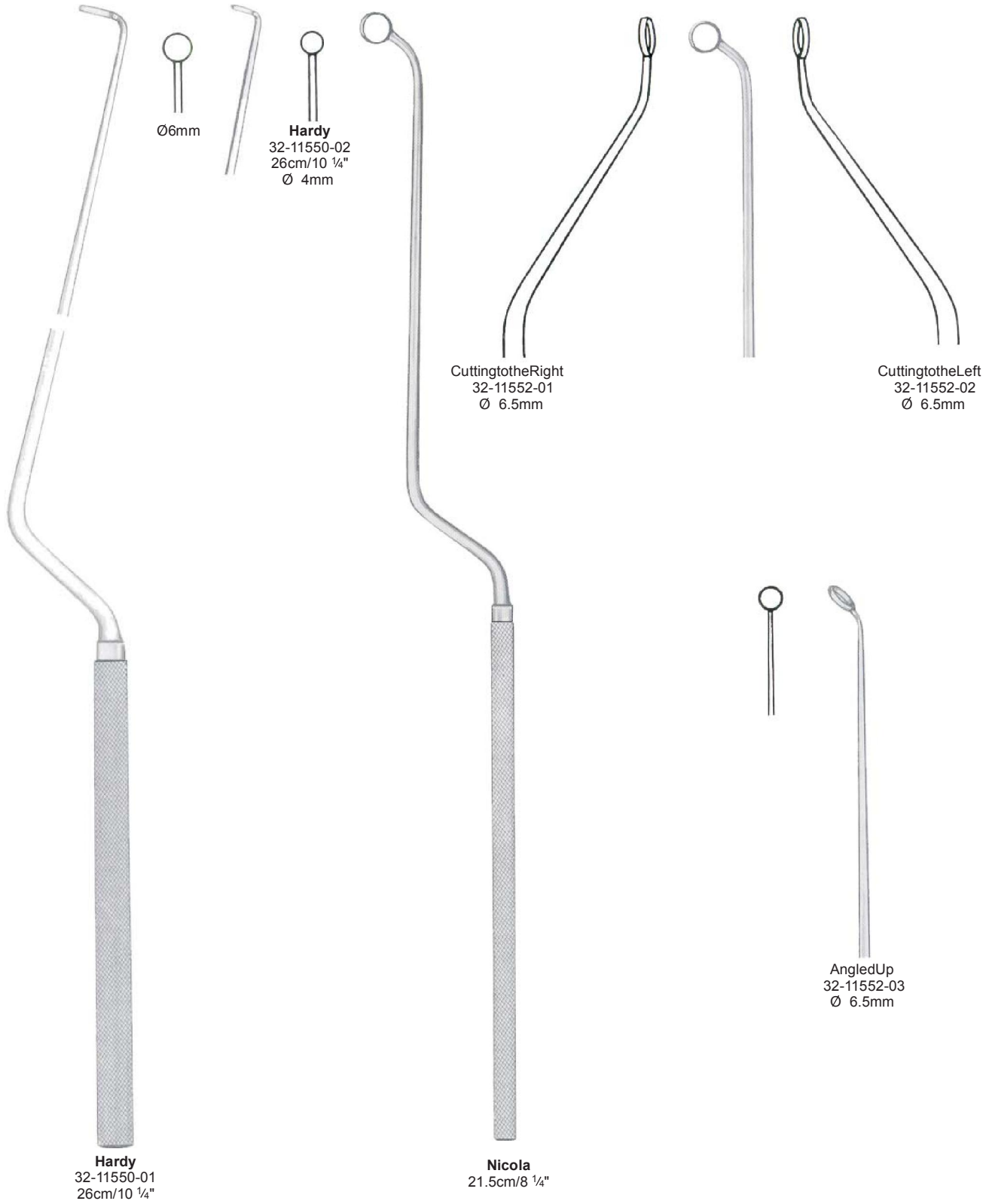














**Nicola**  
32-11556-21  
21.5cm/8 1/4"



26cm/10 1/4"





26cm/10 3/4"



**Landolt-Reulen**  
Dissectorrigid  
32-11562-01  
2mm



**Landolt-Reulen**  
BluntHookrigid  
32-11562-02  
1.7mm



**Fahlbusch**  
Curette malleable  
32-11562-03  
2.5mmO/



**Landolt-Reulen**  
Curette rigid  
32-11562-04  
2.5mmO/

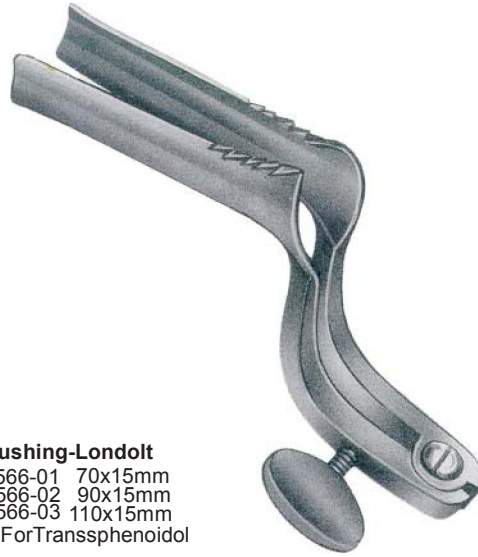


**Fahlbusch**  
Scoop malleable  
32-11562-05



**Landolt-Reulen**  
Raspatories rigid  
32-11562-06  
2.2mm  
3.2mm





**Cushing-Londolt**  
 32-11566-01 70x15mm  
 32-11566-02 90x15mm  
 32-11566-03 110x15mm  
 SpeculaForTransspenoidol

Mirrors



32-11570-06  
6mm



32-11570-08  
8mm



32-11570-10  
10mm



32-11570-12  
12mm



**Mirrorhandle**  
32-11570-00

∅=InsideDia



**Troltsch**  
ForBabies

Fig. 133-11574-011.5mmO /  
Fig. 233-11574-022.5mmO /  
Fig. 333-11574-033.5mmO /

33-11574-30  
Setof 3



**Troltsch**  
ForAdults

Fig. 433-11574-044.0mmO /  
Fig. 533-11574-055.0mmO /  
Fig. 633-11574-066.0mmO /  
Fig. 733-11574-077.0mmO /

33-11574-30 33-11574-40  
Setof 3 Setof 4  
Fig4-6 Fig4-7



**Poltzer**

Fig. 133-11578-012.0mmO /  
Fig. 233-11578-023.0mmO /  
Fig. 333-11578-034.0mmO /

33-12278-30  
Setof 3  
Fig1-3



**Erhard**  
ForAdults

Fig. 133-11582-013.0mmO /  
Fig. 233-11582-024.0mmO /  
Fig. 333-11582-035.0mmO /  
Fig. 433-11582-046.0mmO /

33-11582-30 33-11582-40  
Setof3 Setof4  
Fig.1-3 Fig.1-4



**Hartmann**  
ForBabies

Fig. 133-11586-012.0mmO /



**Hartmann**  
ForChildren

Fig. 233-11586-023.0mmO /  
Fig. 333-11586-034.0mmO /  
Fig. 433-11586-045.5mmO /

33-11586-30  
Setof3  
Fig.2-4



**Hartmann**  
ForAdults

Fig. 333-11590-034.0mmO /  
Fig. 433-11590-045.5mmO /  
Fig. 533-11590-056.5mmO /  
Fig. 633-11590-067.5mmO /

33-11590-30 33-11590-40  
Setof3 Setof4  
Fig.4-6 Fig.3-6



**Toynbee**  
ForAdults

Fig. 133-11594-014.5mmO /  
Fig. 233-11594-025.5mmO /  
Fig. 333-11594-036.5mmO /  
Fig. 433-11594-047.5mmO /

33-11594-30 33-11594-40  
Setof3 Setof4  
Fig.2-4 Fig.1-4

AluBlack



33-11598-60  
Setof6  
Fig.1-6



Ø=InsideDia  
Fig. 133-11598-01 4.5x5.5mmO /  
Fig. 233-11598-02 5.5x6.5mmO /  
Fig. 333-11598-03 6.5x7.5mmO /  
Fig. 433-11598-04 7.5x8.5mmO /  
Fig. 533-11598-05 8.5x9.5mmO /  
Fig. 633-11598-06 9.5x10.5mmO /



**Gruber**  
33-11602-30 Setof 3 Fig. 2-4  
33-11602-40 Setof 4 Fig. 1-4  
33-11604-40 Setof 3 Fig. 2-4  
33-11604-40 Setof 4 Fig. 1-4

Fig. 133-11602-01 2.8x3.8mmO / Fig. 133-11604-01 4.5mmO/  
Fig. 233-11602-02 3.8x4.8mmO / Fig. 233-11604-02 5.0mmO/  
Fig. 333-11602-03 5.0x6.2mmO / Fig. 333-11604-03 5.5mmO/  
Fig. 433-11602-04 6.0x7.2mmO / Fig. 433-11604-04 6.0mmO/

Black



**Hartmann**  
33-11608-40  
Setof4  
Fig.1-4

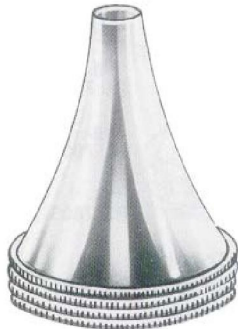
Fig. 133-11608-01 3.0mmO/  
Fig. 233-11608-02 4.0mmO/  
Fig. 333-11608-03 5.0mmO/  
Fig. 433-11608-04 7.0mmO/

Black



Fig. 533-11608-05 9.0mmO/  
Fig. 633-11608-06 11.0mmO/

**Hartmann**  
33-11608-20  
Setof2  
Fig.5-6



33-11612-40  
Setof4  
Fig.3-6  
**Boucheron**

33-11612-033.5mmO /  
33-11612-044.5mmO /  
33-11612-055.5mmO /  
33-11612-066.5mmO /



33-11618-01



33-11618-02



33-11618-03

Fig.1 33-11618-01 4.2x3.8mm  
Fig.2 33-11618-02 5.5x3.8mm  
Fig.3 33-11618-03 6.5x3.8mm  
33-11618-30  
Setof3  
Fig.1-3



33-11620-01



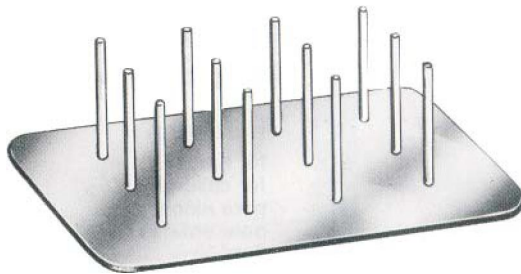
33-11620-02



33-11620-03

Fig.1 33-11620-014.2mm  
 Fig.2 33-11620-025.5mm  
 Fig.3 33-11620-036.5mm  
 33-11620-30  
 Setof3  
 Fig.1-3

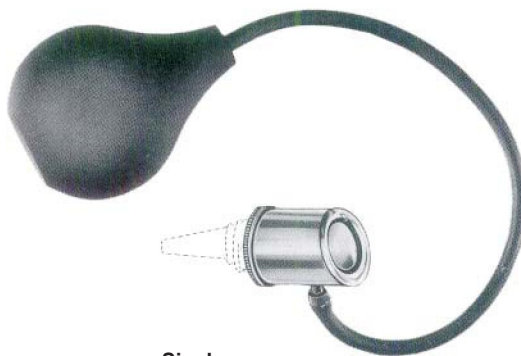
Metalsupportsfor specula



For12Specula  
 33-11624-00



**Richnau-Holmgren**  
 33-11628-022.0mm Ø  
 33-11628-044.0mm Ø  
 33-11628-066.0mm Ø



Siegle



6.5mm



7mm



8mm

Otoscopewith3earspeculaandrubbertubewithbulb  
 33-11632-00



### Tuning Forks

Hartmann

Lucae

French  
Hartmann

Lucae  
C128

Hartmann  
C128

C <sub>2</sub>	16			33-11644-16
C <sub>2</sub>	32			33-11644-32
C	64			33-11645-01
C	128	33-11636-00	33-11640-00	33-11645-02
C <sub>1</sub>	256	33-11636-01	33-11640-01	33-11645-03
C <sub>2</sub>	512	33-11636-02	33-11640-02	
C <sub>3</sub>	1024	33-11636-03	33-11640-03	
C <sub>4</sub>	2048	33-11636-04	33-11640-04	
C <sub>5</sub>	4096	33-11636-05	33-11640-05	

Variableuptoh(Engl.B)

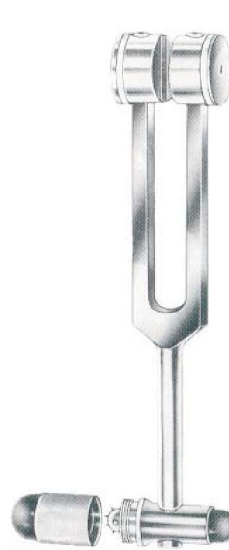
33-11648-00

33-11652-00



**Rydel-Seiffer**  
33-11656-00  
C64/C128

WithClamps =C64  
WithoutClamps =C128



Tuning Fork for neurological examination, with percussion hammer, pin wheel, brush and needle

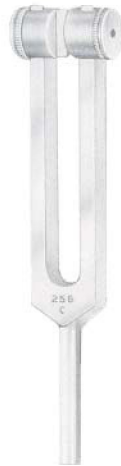
33-11660-00



33-11664-01  
C64



33-11664-02  
C128



33-11664-03  
C256



33-11664-04  
C512



33-11664-05  
C1024



33-11664-06  
C2048



33-11664-07  
C4096



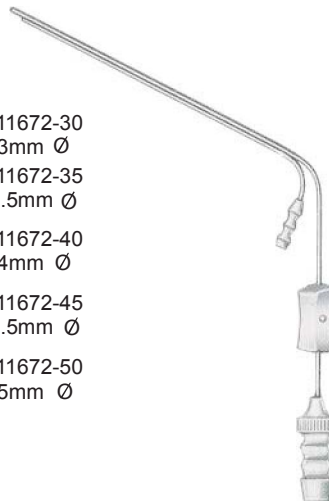
Hartmann

- 33-11668-20  
2.0mm Ø
- 33-11668-25  
2.5mm Ø
- 33-11668-30  
3.0mm Ø
- 33-11668-40  
4.0mm Ø
- 33-11668-50  
5.0mm Ø



Itard

- 33-11672-30  
3mm Ø
- 33-11672-35  
3.5mm Ø
- 33-11672-40  
4mm Ø
- 33-11672-45  
4.5mm Ø
- 33-11672-50  
5mm Ø



- 33-11676-09 0.9mm Ø
- 33-11676-12 1.2mm Ø
- 33-11676-15 1.5mm Ø



- Baron(Schuknecht)**
- 33-11680-01 1.0x75mm Ø
  - 33-11680-02 1.5x75mm Ø
  - 33-11680-03 2.0x75mm Ø





**Krause**  
33-11684-16  
16cm/6 1/4"



**Krause-Voss**  
33-11688-16  
16cm/6 1/4"



**Lange-Wilde**  
33-11692-16  
16cm/6 1/4"



Package of 1 dozen each

	mm	Ø
33-11700-02	0.2	
33-11700-03	0.3	

*Ear Dressing Forceps*



**Troeltsch (Wilde)**



**Troeltsch**



**Lucae**



**Lucae**



**Jansen**

Cm	In	Troeltsch (Wilde)	Troeltsch	Lucae	Lucae	Jansen
11.0	4 1/4"	33-11704-11				
12.0	4 3/4"	33-11704-12	33-11706-12		33-11712-14	
14.0	5 1/2"	33-11704-14		33-11710-14		
15.0	6"	33-11704-15				
16.0	6 1/4"					33-11716-16
18.0	7"					33-11716-18
20.0	8"					33-11716-20



**Okonogto**  
33-11720-16  
16cm/6 ¼"



**Littauer**  
33-11724-12  
12cm/4 ¾"



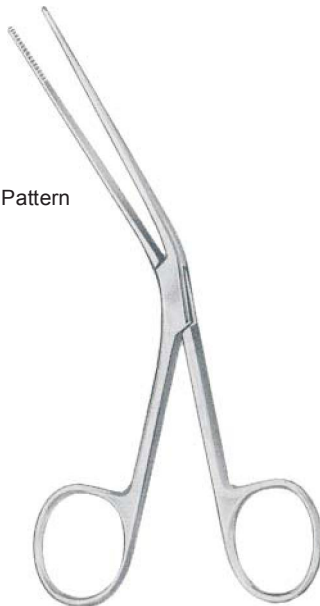
FinePattern

**Hartmann**  
33-11726-12  
12cm/4 ¾"



**Hartmann**  
33-11728-14  
14cm/5 ½"

StandardPattern



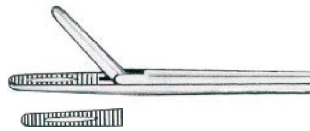
**Tilley**  
33-11732-14  
33-11732-16  
14cm/5 ½"



**Buck**  
33-11736-09  
9cm/3 ½"

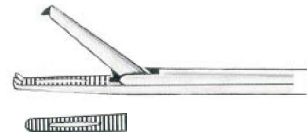


33-11740-08  
8cm/3 ¼"



**Hartmann-Noyes**  
33-11744-09  
8.5cm/3 1/4"

1:2



**Hartmann-Noyes**  
33-11746-09  
8.5cm/3 1/4"



**Hartmann**  
33-11750-09 8.5cm/3 1/4"  
33-11750-14 14cm/5 1/2"  
33-11750-16 16cm/6 1/4"

1:2



**Hartmann**  
33-11752-09 8.5cm/3 1/4"  
33-11752-14 14.0cm/5 1/2"



**Hartmann**  
33-11756-208.5cm/3 1/4" ○ 2.0mm  
33-11756-258.5cm/3 1/4" ○ 2.5mm  
33-11756-308.5cm/3 1/4" ○ 3.0mm



**Hartmann-Citelli**  
33-11760-02 ○ 2mm 8.5cm/3 1/4"  
33-11760-03 ○ 3mm 8.5cm/3 1/4"



**Strumpel**  
33-11762-09  
8.5cm/3 1/4"



**Hartamm-Weingartner**  
33-11766-09  
8.5cm/3 1/4"



**Hartamm**  
33-11770-09  
8.5cm/3 1/4"
















**Hartamm-Wullstein**  
33-11774-06 8.5cm/3 1/4" 08x6mm  
33-11774-08 8.5cm/3 1/4" 1.8x8mm



**Hartamm-Wullstein**  
33-11778-01 ○ 1mm 8.5cm/3 1/4"  
33-11778-02 ○ 2mm 8.5cm/3 1/4"



LengthofShaft8cm

	MicroForceps	Mini	Cup-ShapedForceps
	1.6x7.0mm  33-11782-01	0.7x3.5mm  33-11782-08	0.9x1.1mm  33-11782-11
	 33-11782-02 0.8x4.0mm		
SmoothJaw	 33-11782-03 0.8x6.0mm		
CurvedLeft	 33-11782-04 0.8x6.0mm		 33-11782-12 0.9x1.1mm
CurvedRight	 33-11782-05 0.8x4.0mm		 33-11782-13 0.9x1.1mm
AngledUp	 33-11782-06 0.8x4.0mm		 33-11782-14 0.9x1.1mm
AngledDown	 33-11782-07 0.8x4.0mm		 33-11782-15 0.9x1.1mm

MicroForceps



**Greven**  
33-11782-16  
0.8x5.0mm



**Cos**  
33-11782-18  
0.8x3.0mm

LeftAngled



**Juers**  
33-11782-19  
0.8x6.0mm



**Hough**  
33-11782-21  
0.8x3.0mm

RightAngled



**Juers**  
33-11782-20  
0.8x6.0mm



**Hough**  
33-11782-22  
0.8x3.0mm



**Fuller**  
33-11782-23  
0.8x6.0mm



**Tabb**  
33-11782-24

UpwardCutting



**Dieter**  
33-11782-30

DownwardCutting



**Dieter**  
33-11782-31

CuttingtotheRight



**Dieter**  
33-11782-32

Cuttingtotheleft



33-11782-33

MicroScissors



**Bellucci**  
33-11786-01  
4.0mm



**Bellucci**  
33-11786-02  
5.5mm

AngledUp



**Bellucci**  
33-11786-03  
5.5mm

CurvedLeft



**Bellucci**  
33-11786-04  
5.5mm

CurvedRight



**Bellucci**  
33-11786-05  
5.5mm

CurvedLeft



**Shea**  
33-11786-07  
7.0mm

CurvedRight



**Shea**  
33-11786-08  
7.0mm

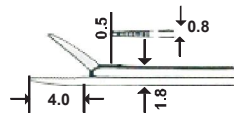


LengthofShaft8cm

MicroForceps

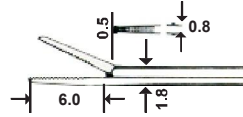
0.5mm

SmoothJaw

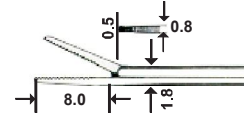


Straight

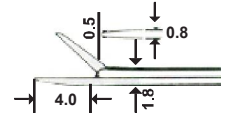
33-11790-01



33-11790-02



33-11790-03



33-11790-04

CurvedRight  
CurvedLeft  
AngledUp  
AngledDown

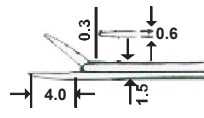
33-11794-01  
33-11794-02  
33-11794-03  
33-11794-04

MicroForceps

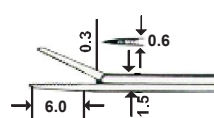
0.3mm

SmoothJaw

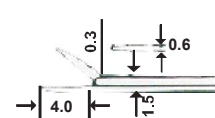
Straight



33-11800-01



33-11800-02



33-11800-03



Length of Shaft 8cm

Cup-Shaped Forceps

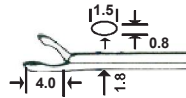


Micro Scissors

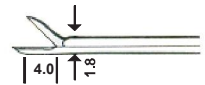


**Bellucci**  
0.8mm

1.5x0.8mm

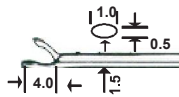


- |              |             |
|--------------|-------------|
| Straight     | 33-11804-01 |
| Curved Right | 33-11804-02 |
| Curved Left  | 33-11804-03 |
| Angled Up    | 33-11804-04 |
| Angled Down  | 33-11804-05 |



- |             |
|-------------|
| 33-11806-01 |
| 33-11806-02 |
| 33-11806-03 |
| 33-11806-04 |
| 33-11806-05 |

1.0x0.5mm



Straight

33-11804-06

LengthofShaft8cm



CruraForceps



OpentoRight

**Fisch**  
33-11810-01



OpentoLeft

**Fisch**  
33-11810-02

LengthofShaft8cm



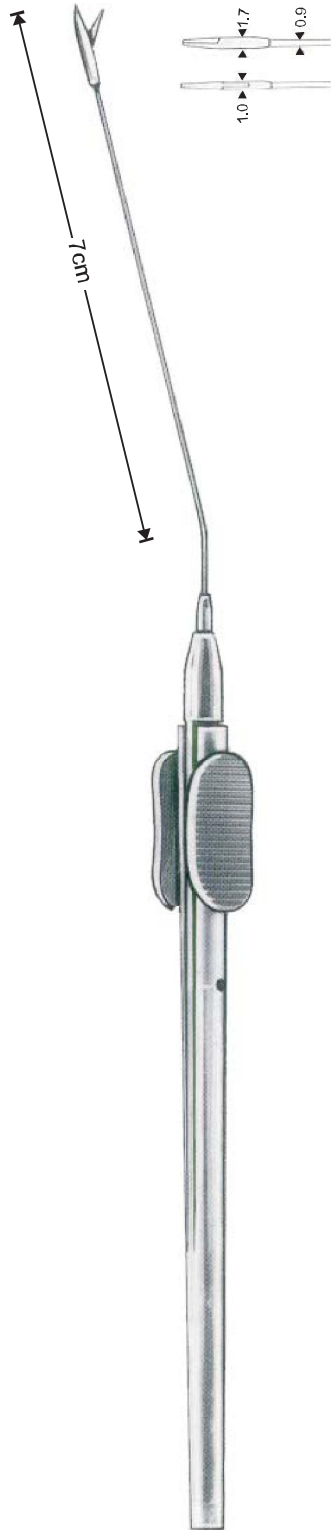
WireClosureForceps



**McGee**  
33-11814-01



**McGee/Fisch**  
33-11814-02



33-11818-01



33-11818-02

MicroScissors



33-11820-01



33-11820-02

MicroForceps



33-11822-01



33-11822-02

Cup-ShapedForceps



**Overholt**  
21-07166-29  
29.5cm/11 1/2"



**Overholt**  
21-07168-29  
29.5cm/11 1/2"



**Overholt**  
21-07170-28  
28.5cm/11 1/4"



**Hyllin**  
21-07174-03  
14.5cm/5 3/4"



21-07174-01



21-07174-02



21-07174-03



**Matson**  
21-07178-22  
22cm/8 3/4"

## NeedlesAndHooks



**Barbara**  
33-11842-01



33-11842-02



33-11842-03



**Rosen**  
33-11842-04



**Barbara**



25°  
33-11844-03 0.3mm  
33-11844-06 0.6mm  
33-11844-10 1.0mm



45°  
33-11846-03 0.3mm  
33-11846-06 0.6mm  
33-11846-10 1.0mm  
33-11846-12 1.2mm  
33-11846-15 1.5mm  
33-11846-20 2.0mm  
33-11846-25 2.5mm



90°  
33-11848-03 0.3mm  
33-11848-06 0.6mm  
33-11848-10 1.0mm  
33-11848-12 1.2mm  
33-11848-15 1.5mm  
33-11848-20 2.0mm  
33-11848-25 2.5mm



33-11850-050.5mm  
33-11850-101.0mm

## NeedlesAndHooks



90°  
 33-11852-03 0.3mm  
 33-11852-06 0.6mm  
 33-11852-10 1.0mm

90°  
 33-11854-03 0.3mm  
 33-11854-06 0.6mm  
 33-11854-10 1.0mm

**McGee**  
 33-11856-05 0.5mm  
 33-11856-10 1.0mm

**McGee**  
 33-11858-05 0.5mm  
 33-11858-10 1.0mm



25°  
 33-11862-030.3mm  
 33-11862-060.6mm  
 33-11862-101.0mm

**Barbara**  
 33-11860-01

**Rosen**  
 33-11860-02

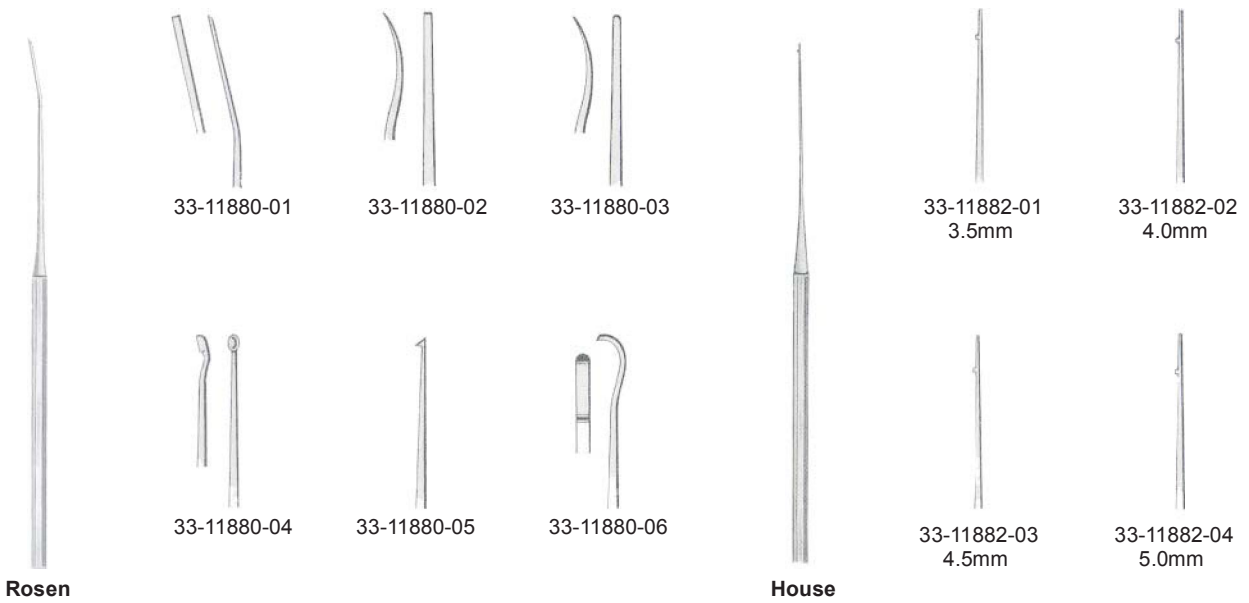
25°  
 33-11864-030.3mm  
 33-11864-060.6mm  
 33-11864-101.0mm

45°  
 33-11868-030.3mm  
 33-11868-060.6mm  
 33-11868-101.0mm

45°  
 33-11870-030.3mm  
 33-11870-060.6mm  
 33-11870-101.0mm



Dissectors, Measuring Rod, Elevators, Curettes and Mobilizer





**Buckingham**



33-11886-01



33-11886-02



33-11886-03



**House**

33-11890-101.0/1.2mm  
33-11890-151.5/1.8mm



**House**

33-11892-101.0/1.2mm  
33-11892-151.5/1.8mm



**Shea**

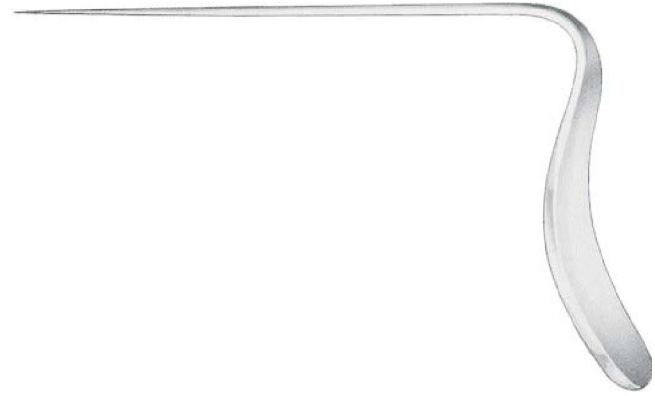
33-11896-151.5mm



33-11900-01

33-11900-02

33-11900-03



Zollner



33-11900-04

33-11900-05

33-11900-06

33-11900-07

33-11900-08

33-11900-09

33-11900-10

33-11900-11



33-11900-12

33-11900-13

33-11900-14



33-11900-15

33-11900-16

33-11900-17



33-11900-18

33-11900-19

33-11900-20

33-11900-21

33-11900-22

33-11900-23

33-11900-24



WidthofBite

**Citelli**  
33-11904-202.0mm  
33-11904-303.0mm



WidthofBite



**Citelli-Beyer**  
33-11906-151.5mm  
33-11906-202.0mm



WidthofBite







**Brunings**  
33-11910-40  
33-11910-60

-  33-11912-30 3.0mm
-  33-11912-40 4.0mm
-  33-11912-50 5.0mm
-  33-11912-60 6.0mm



**Kerrison**  
20cm/8"



	Fig.000								
Blunt	33-11914-30	00	0	1	2	3	4	5	
		33-11914-20	33-11914-10	33-11914-01	33-11914-02	33-11914-03	33-11914-04	33-11914-05	
Sharp	33-11915-30	33-11915-20	33-11915-10	33-11915-01	33-11915-02	33-11915-03	33-11915-04	33-11915-05	
									
Blunt	33-11916-30	33-11916-20	33-11916-10	33-11916-01	33-11916-02	33-11916-03	33-11916-04	33-11916-05	
									
Sharp	33-11917-30	33-11917-20	33-11917-10	33-11917-01	33-11917-02	33-11917-03	33-11917-04	33-11917-05	
									



**Langenbeck**  
33-11920-13  
13cm/5 1/8"



**Shapleigh**  
13cm/5 1/8"



33-11924-01

33-11924-02



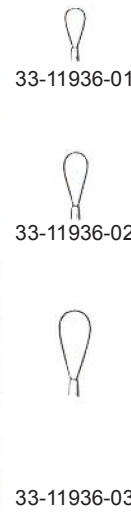
**Jansen**  
33-11928-15  
15cm/6"



**Barth**  
33-11932-18  
18cm/7"



**Billeau**  
16.5cm/6 1/2"



33-11936-01

33-11936-02

33-11936-03



16cm/6 1/4"  
**Snellen**



33-11940-01



33-11940-02



**Gross**  
33-11944-12  
12cm/4 3/4"



**Zaufal**  
33-11948-16  
16cm/6 1/4"



**Hartmann**  
33-11952-16  
16cm/6 1/4"



**Lucae**  
14cm/5 1/2"

33-11956-01

33-11956-02

33-11956-03



**Wagener**  
14cm/5 1/2"

33-11960-01

33-11960-02

33-11960-03

33-11960-04

33-11960-05

33-11960-06



**Day**  
16cm/6 1/4"

33-11964-01

33-11964-02



**Muck**  
33-11968-13  
13.5cm/5 1/8"



**Poltzer**  
33-11972-16  
16cm/6 1/4"



Fig. Straight  
1 33-11976-01  
2 33-11976-02  
3 33-11976-03



**Sexton**



Curved  
33-11980-01  
33-11980-02  
33-11980-03



**Gerzog-Sexton**  
33-11984-17  
17cm/6 1/2"



Messer



**Politzer**  
33-11988-17  
17cm/6 3/4"



**Lempert**  
33-11992-15  
15cm/6"



**Lempert**  
15cm/6"



33-11996-01



33-11996-02

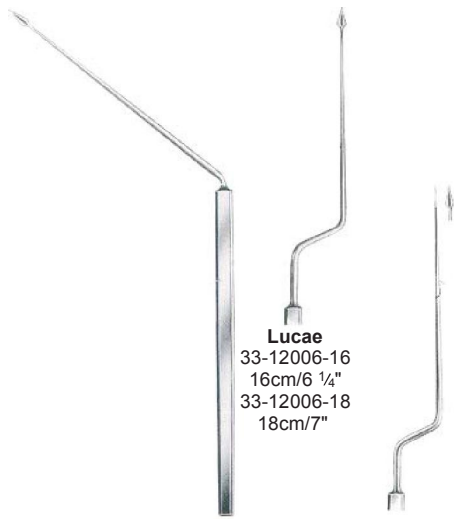


**Lempert**  
33-12000-01  
15cm/6"



**Lempert**  
33-12000-02  
15cm/6"

Knives



**Lucae**  
33-12006-16  
16cm/6 1/4"  
33-12006-18  
18cm/7"

**Politzer**  
33-12004-16  
16.5cm/6 1/2"

**Lucae**  
33-12008-18  
18cm/7"



**Politzer**  
33-12012-17  
17cm/6 3/4"



Ear Operating Set

**Sprague**  
33-12014-19  
19cm/7 1/2"



33-12018-10



33-12018-20



33-12018-30

Ear Syringe, Complete With 2 Cannulas and 1 Protecting Disk

- 33-12018-02 50ml
- 33-12018-03 75ml
- 33-12018-04 100ml
- 33-12018-06 150ml
- 33-12018-08 200ml



**Fraenkel**  
34-12022-01 Fig.1  
34-12022-02 Fig.2  
34-12022-03 Fig.3



34-12026-01  
34-12026-02  
34-12026-03  
13cm/5"



Fig.1  
34-12026-01  
34-12028-01

Fig.2  
34-12026-02  
34-12028-02

Fig.3  
34-12026-03  
34-12028-03



34-12028-01  
34-12028-02  
34-12028-03  
13cm/5"



**Hartmann**  
15cm/6"

34-12030-01



Fig.1

34-12032-01

34-12030-02

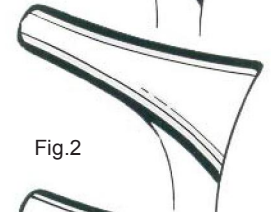


Fig.2

34-12032-02

34-12030-03

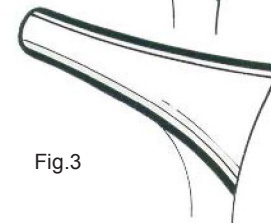


Fig.3

34-12032-03



**Hartmann**  
15cm/6"



34-12036-01



Fig. 1



Fig. 2

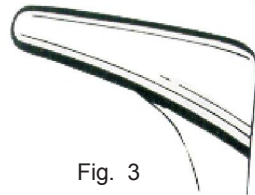


Fig. 3

34-12038-01



34-12038-02

34-12038-03

**Hartmann-Halle**  
15cm/6"

**Hartmann-Halle**  
15cm/6"



34-12042-01



34-12044-01



34-12044-02

34-12042-02



**Tieck**  
13.5cm/5 1/4"



**Beckmann**  
15cm/6"



Fig. 1  
34-12048-01



Fig. 2  
34-12048-02

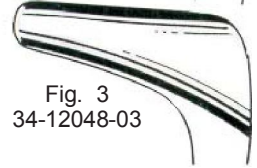


Fig. 3  
34-12048-03



**Mod.Wien**

34-12052-01



Fig.1

34-12052-02

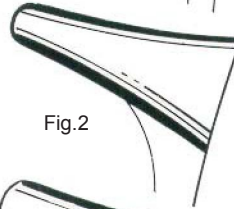


Fig.2

34-12052-03

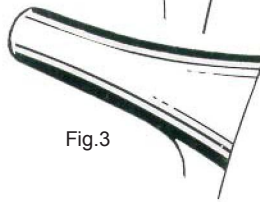


Fig.3

34-12054-01



**Wien**

34-12054-02

34-12054-03



**Killian**



Fig.1  
34-12058-01  
35mm

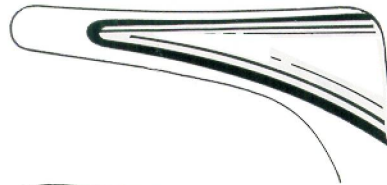


Fig.2  
34-12058-02  
50mm

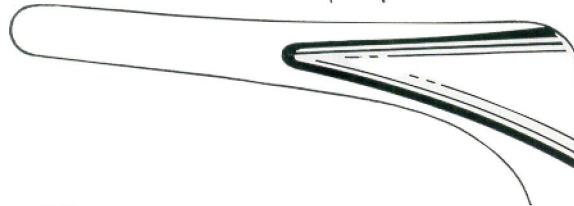


Fig.3  
34-12058-03  
75mm

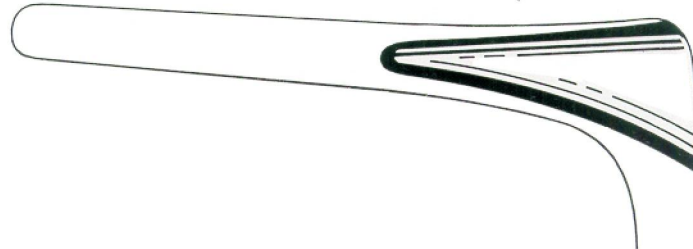


Fig.4  
34-12058-04  
90mm



**Cottle**  
34-12062-01  
34-12062-02  
34-12062-03  
34-12062-04  
15cm/6"

**Cottle**  
34-12064-01  
34-12064-02  
34-12064-03  
34-12064-04  
15cm/6"

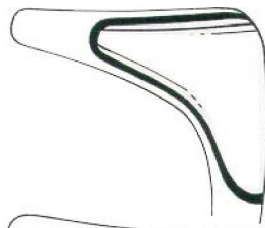


Fig1  
34-12062-01  
34-12064-01  
35mm

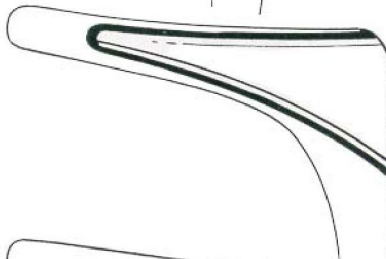


Fig2  
34-12062-02  
34-12064-02  
50mm

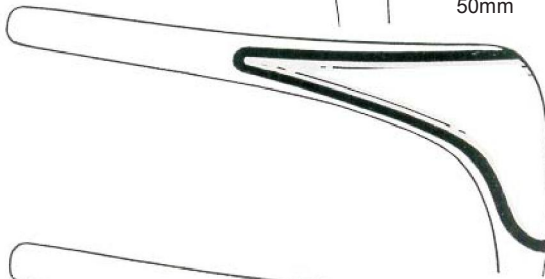


Fig3  
34-12062-03  
34-12064-03  
75mm

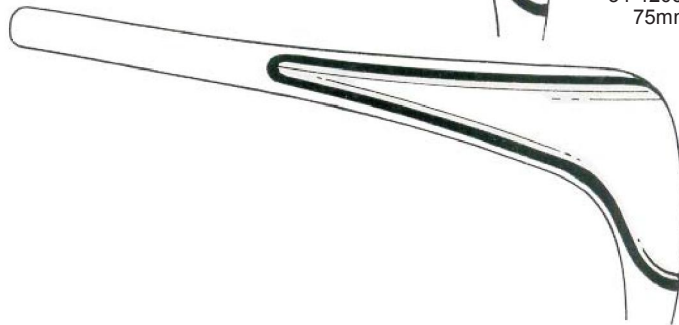


Fig4  
34-12062-04  
34-12064-04  
90mm



34-12068-30 Fig.1-3  
34-12068-40 Fig.1-4  
34-12068-70 Fig.1-7



34-12068-01    34-12068-02    34-12068-03    34-12068-04



34-12068-05    34-12068-06    34-12068-07





**Krause**  
34-12074-26  
26cm/10 1/4"



**Krause-Voss**  
34-12076-26  
26cm/10 1/4"



**Lange-Wilde**  
34-12078-24  
24cm/9 1/2"



Package Of 1 Dozen Each  
34-12080-10  
0.3mm



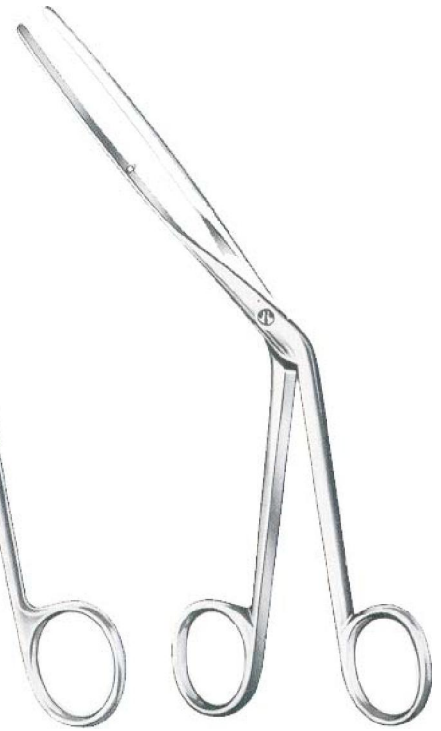
Cm	In	Troeltsch (Wilde)
15.0	6	34-12084-15
18.0	7	34-12084-18
20.0	8	



Cm	In	Gruenwald (Jansen)
15.0	6	34-12088-16
18.0	7	34-12088-18
20.0	8	34-12088-20

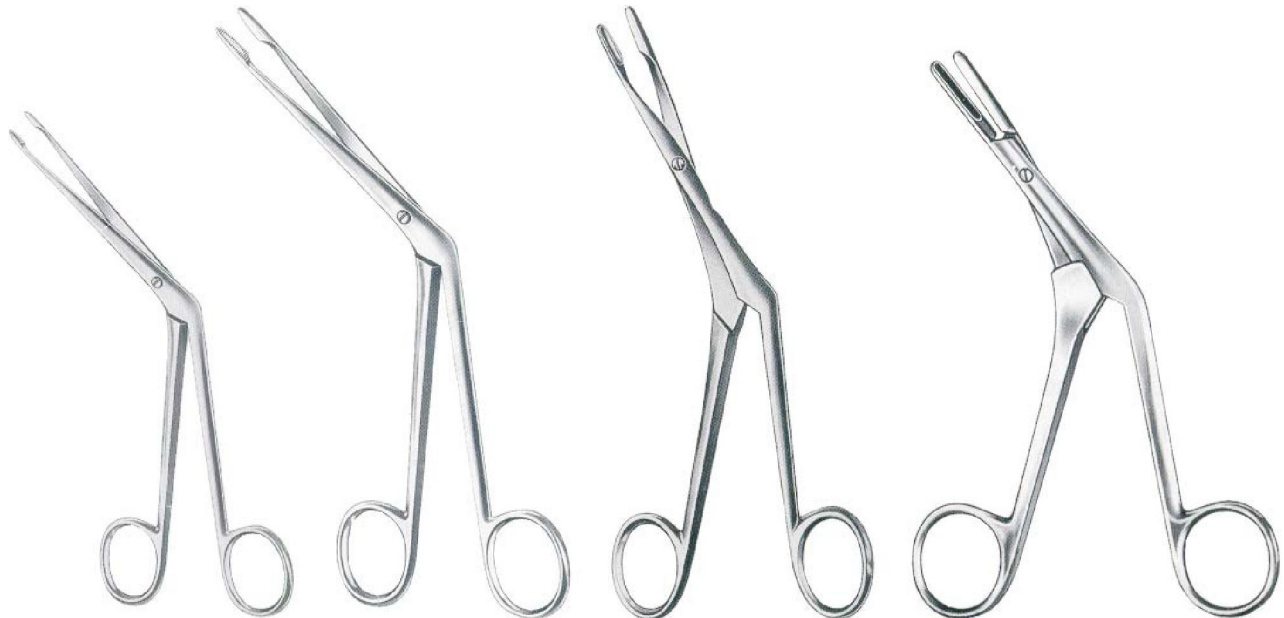


**Westmacott (West)**  
34-12092-20  
20cm/8"



**Lubet-Barbon**  
34-12096-20  
20cm/8"



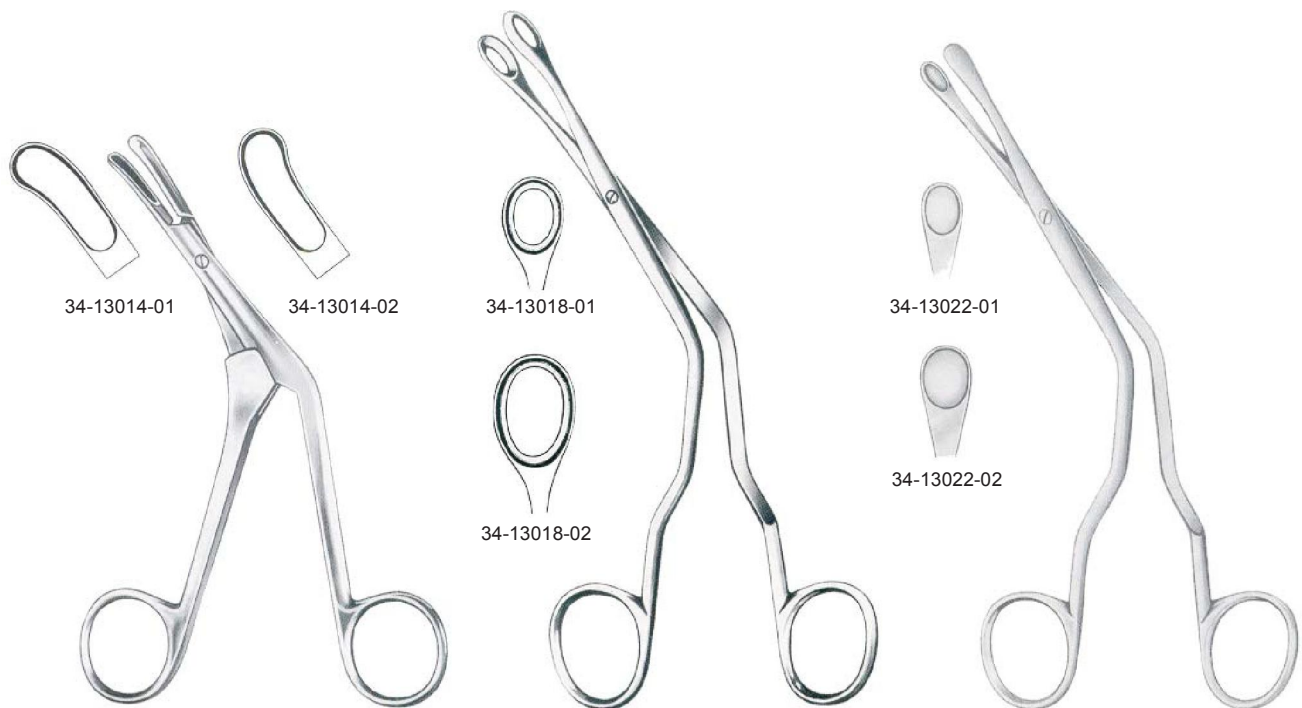


**Hartmann**  
34-13000-16  
16cm/6 1/4"

**Hartmann**  
34-13002-20  
20cm/8"

**Heymann**  
34-13006-18  
18cm/7"

**Craig**  
34-13010-18  
18cm/7"



34-13014-01

34-13014-02

34-13018-01

34-13022-01

34-13018-02

34-13022-02

**CraigDomnick**  
18cm/7"

**Luc**  
20cm/8"

**Luc**  
20cm/8"



**Bruenings**  
19cm/7 1/2"



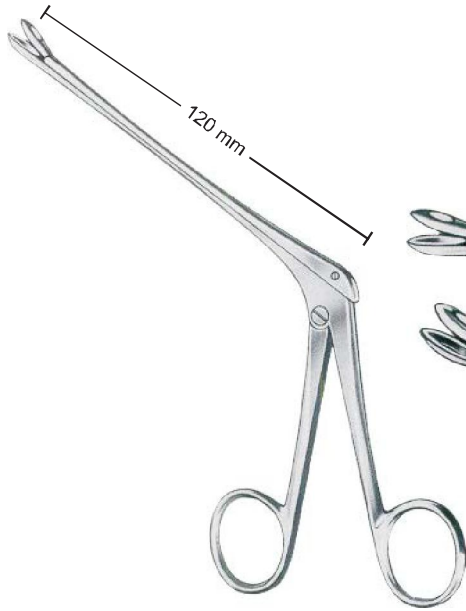
**Takahashi**  
19cm/7 1/2"



**Watson-Williams**  
19cm/7 1/2"



**Ferris-Smith**  
34-13038-12  
19cm/7 1/2"



**Weil-Blakesley**



**Struycken**



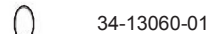
34-13048-01



34-13048-02



**Grunwald**



34-13060-01



34-13060-02



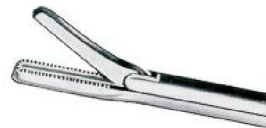
34-13060-03



**Grunwald**



34-13062-01



**Hajek**



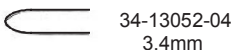
34-13052-01  
2.2mm



34-13052-02  
2.6mm



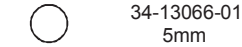
34-13052-03  
3.0mm



34-13052-04  
3.4mm



**Hartmann**



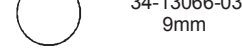
34-13066-01  
5mm



34-13066-02  
7mm



34-13066-03  
9mm



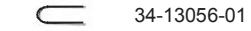
34-13066-04  
11mm



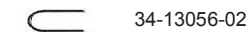
34-13066-04  
11mm



**Myles**



34-13056-01



34-13056-02



34-13056-03



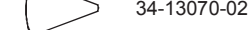
**Schmeden**



34-13070-01



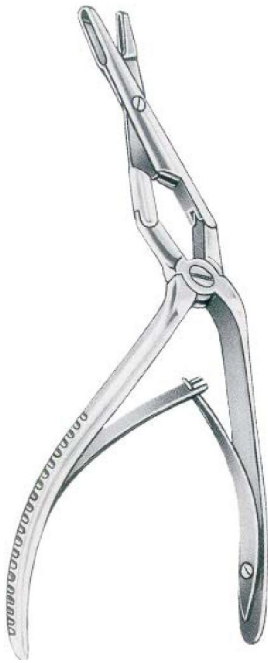
34-13070-02



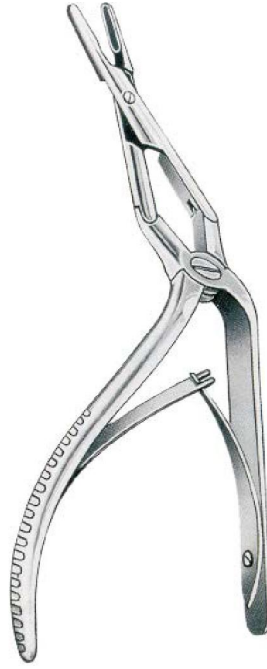
34-13070-03



34-13070-03



**Middleton-Jansen**  
34-13074-19  
19cm/7 1/2"



**Middleton-Jansen**  
34-13076-19  
19cm/7 1/2"



**Kazanjan**  
34-13080-18  
18cm/7"



**Caplan**  
34-13084-20  
20cm/8"



34-13088-01  
5x4mm



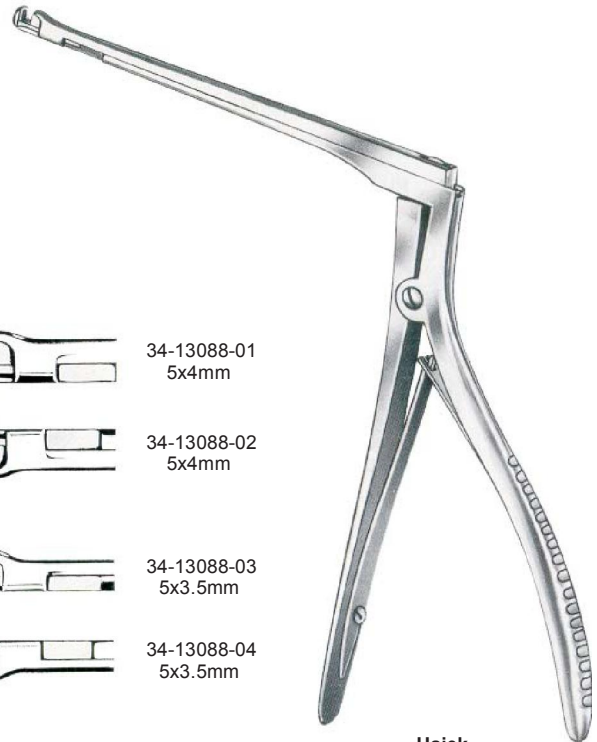
34-13088-02  
5x4mm



34-13088-03  
5x3.5mm



34-13088-04  
5x3.5mm






**Hajek  
(Hajek-Kofler)  
Shaft**  
14cm/5 1/2"



Ferris-Smith-Kerrison



Ferris-Smith-Kerrison

		Width of Bite		Length of Shaft			Width of Bite		Length of Shaft		
		15cm/6"	20cm/8"	20cm/8"	18cm/7"	18cm/7"	15cm/6"	20cm/8"	18cm/7"	18cm/7"	
Cutting Upward		34-13092-03	3mm	34-13098-03	34-13104-03	1mm	34-13108-03	34-13114-03	34-13120-01		
		34-13092-05	5mm	34-13098-05	34-13104-05	2mm			34-13120-02		
Cutting Upward 40°		34-13094-03	3mm	34-13100-03		3mm	34-13110-03	34-13116-03	34-13120-03		
		34-13094-05	5mm	34-13100-05		4mm			34-13120-04		
Cutting Downward		34-13096-03	3mm	34-13102-03	34-13106-03	5mm	34-13112-03	34-13118-03	34-13120-05		
		34-13096-05	5mm	34-13102-05	34-13106-05	1mm			34-13122-01		
						2mm			34-13122-02		
						3mm			34-13122-03		
						4mm			34-13122-04		
						5mm			34-13122-05		
									34-13124-01		
									34-13124-02		
									34-13124-03		
									34-13124-04		
									34-13124-05		



360° Turnable

**Hajek-Kofler**  
34-13128-16  
16cm/6 1/2"



- 34-13132-03  
3mm
- 34-13132-04  
4mm
- 34-13132-05  
5mm
- 34-13132-06  
6mm

**Kerrison**  
20cm/8"



**Jurasz**  
22cm/8 3/4"



34-13136-01



34-13136-02



34-13136-03

## Rhinoplastic and Nasal Knives



**Joseph**  
Pointed

← Straight  
34-13140-01



Curved  
34-13141-01



**Joseph**  
Blunt

← Straight  
34-13144-01



Curved  
34-13145-01



**Converse**  
34-13149-15  
15cm/6"



**Joseph**  
34-13152-14  
14cm/5 1/2"





**Cottle**  
34-13156-15  
15cm/6"



**Cottle**  
34-13158-14  
14cm/5 1/2"



**Freer**  
34-13162-16  
16cm/6 1/4"



**Joseph**  
34-13166-16  
16.5cm/6 1/2"



**Maltz**  
34-13170-16  
16.5cm/6 1/2"



**Freer**  
34-13174-19  
19cm/7 1/2"

SeptumKnives



**Ballenger**  
20cm/8"



34-13178-03 3mm 34-13179-03  
34-13178-04 4mm 34-13179-04  
34-13178-05 5mm 34-13179-05



**Ballenger**  
20cm/8"



**Bruenings**  
34-13182-16  
16cm/6 1/4"



34-13186-044mm  
34-13186-055mm

**McKenty**  
15cm/6"



**Halle**  
34-13190-16  
16.5cm/6 1/2"



**Joseph**  
34-13194-16  
16.5cm/6 1/2"



**Cottle**  
34-13198-19  
19.5cm/7 1/2"



Blunt



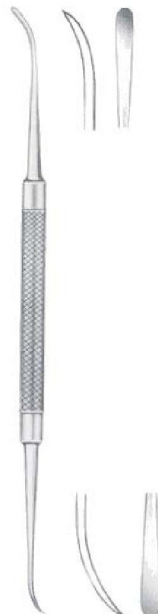
Sharp

**Freer**  
34-13202-19  
19cm/7 1/2"

**Freer**  
34-13203-19  
19cm/7 1/2"



**Freer**  
34-13206-18  
18cm/7"



**Freer-Yasargil**  
34-13208-18  
18.5cm/7 1/4"



**Howarth**  
34-13212-21  
21.5cm/8 1/2"



**McKenty**  
34-13216-22  
22cm/8 3/4"



**Killian**  
34-13220-18  
18.5cm/7 1/4"



**Cottle**  
34-13224-23  
23cm/9"



**Killian**  
34-13228-18  
18.5cm/7 1/4"



**Pierce**  
34-13232-21  
21cm/8 1/4"



**Pennington**  
34-13236-21  
21cm/8 1/4"

Raspatories



34-13240-18  
18cm/7"



**Joseph(Cottle)  
Masing**  
34-13244-22  
22cm/8 3/4"

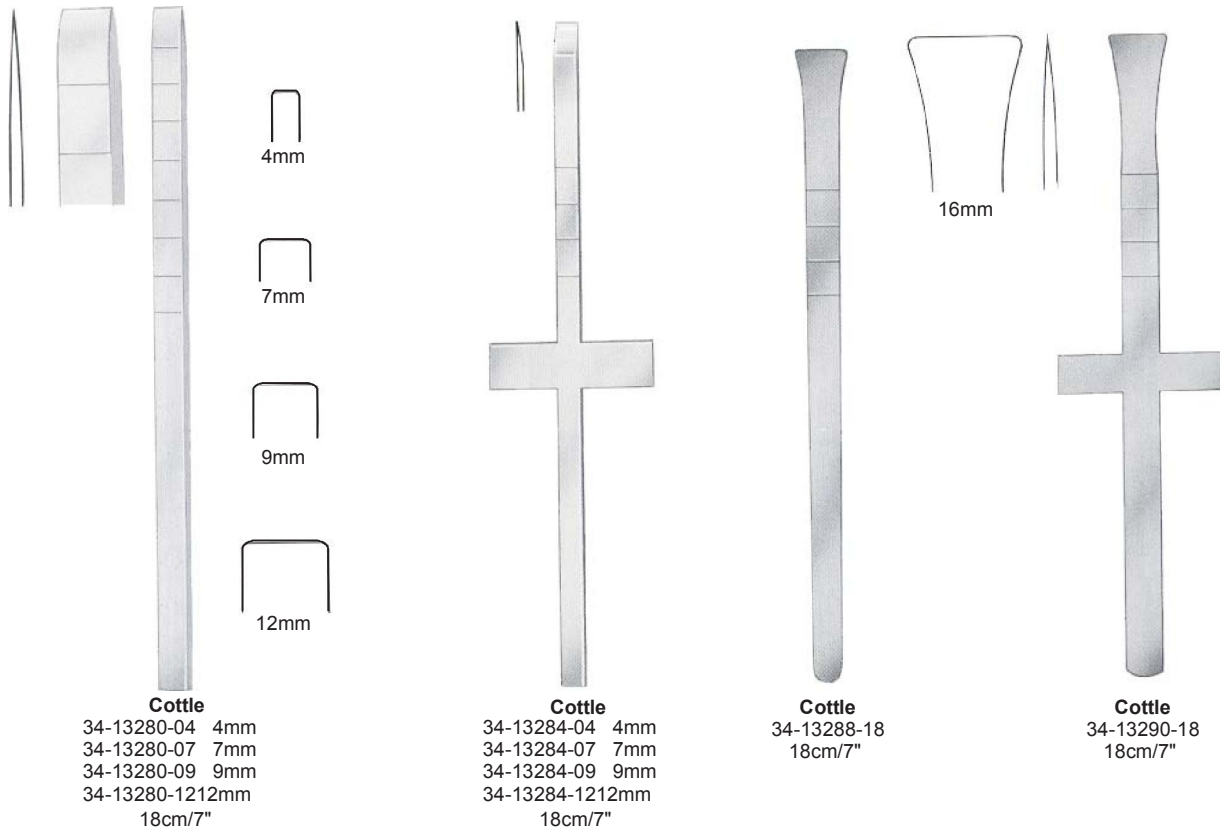
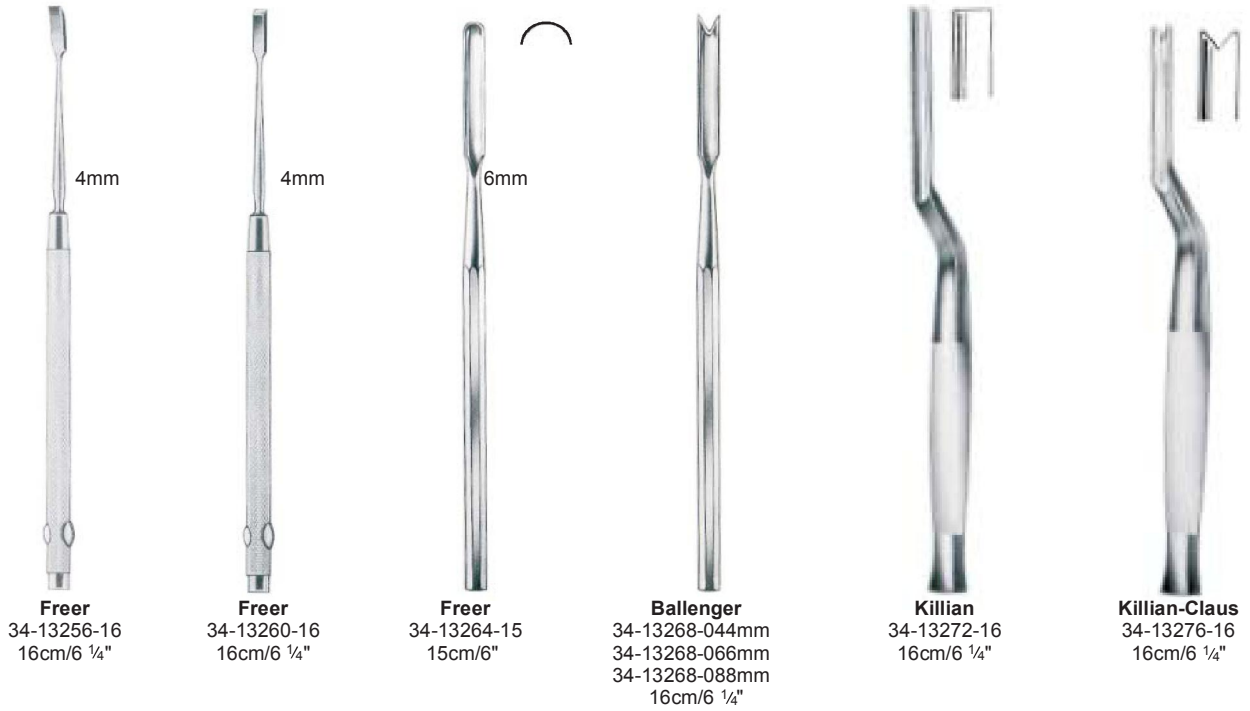


**Masing**  
34-13248-20  
20.5cm/8 3/8"



**Joseph**  
34-13252-16  
16cm/6 1/4"

Periost-Elevators





34-13294-08  
16cm/6 1/4"  
8mm



**Cottle**  
34-13298-04 4mm  
34-13298-07 7mm  
34-13298-09 9mm  
34-13298-12 12mm  
34-13298-18 18mm



**Cottle Curved**  
34-13299-06  
18cm/7"  
6mm



**Fomon**  
34-13302-055mm  
34-13302-088mm  
17cm/6 3/4"



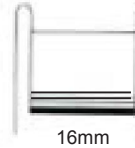
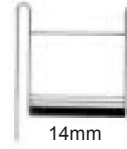
**Walter**  
34-13306-033mm  
34-13306-044mm  
18cm/7"



**(Silver) Masing**  
34-13310-01 34-13310-02 34-13310-03  
17.5cm/7 7/8"



**Cinelli**  
34-13314-1010mm  
34-13314-1212mm  
34-13314-1414mm  
34-13314-1616mm  
16cm/6 1/4"



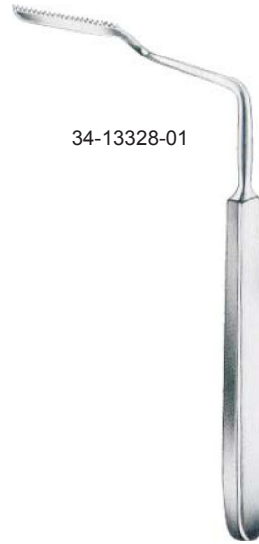
**Masing**  
34-13318-17  
17.5cm/6 7/8"



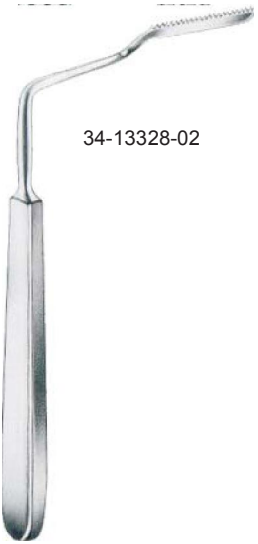
**west**  
34-13322-16  
16cm/6 1/4"



**West**  
34-13324-16  
16cm/6 1/4"



34-13328-01



34-13328-02

**Joseph**  
17cm/6 3/4"



**Joseph**  
34-13330-01  
17cm/6 3/4"



**Joseph**  
34-13332-02  
17cm/6 3/4"



**Joseph**  
34-13332-03  
17cm/6 3/4"



## PinsmedTc

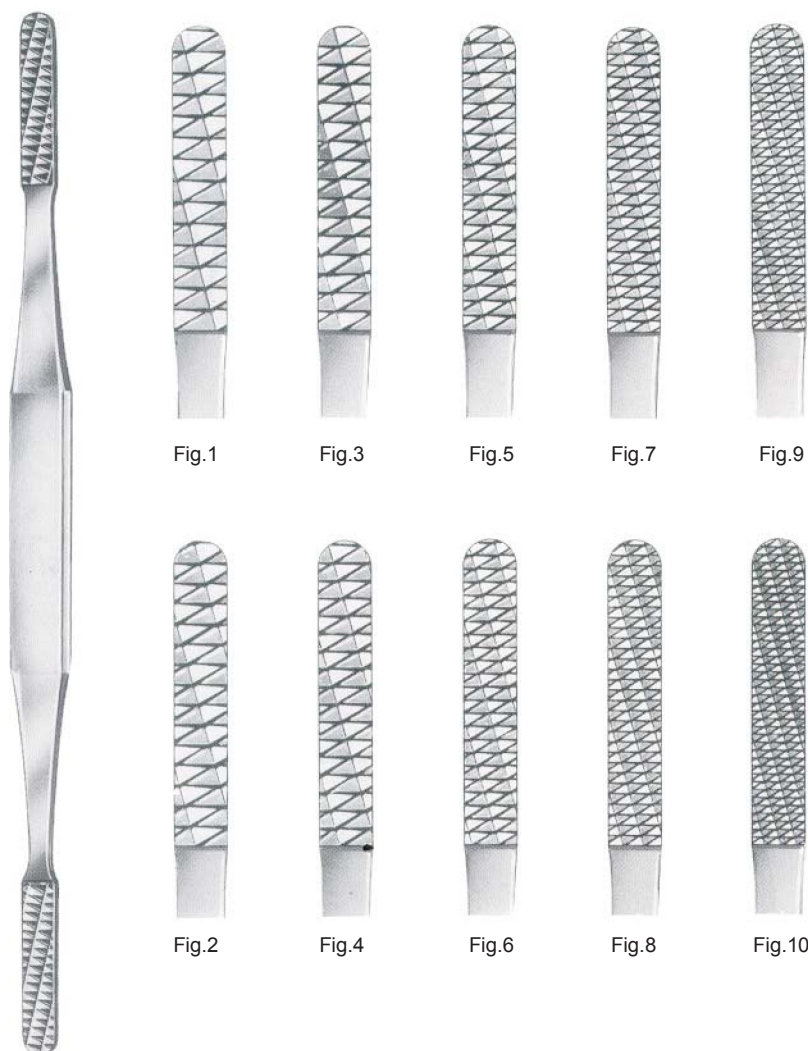


Fig.1

Fig.3

Fig.5

Fig.7

Fig.9

Fig.2

Fig.4

Fig.6

Fig.8

Fig.10

### Fomon

- Fig.1/2 34-13336-12
  - Fig.3/4 34-13336-34
  - Fig.5/6 34-13336-56
  - Fig.7/8 34-13336-78
  - Fig.9/1034-13336-90
- 21cm/8 1/4"

## PinsmedTc



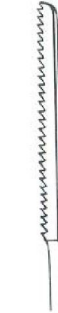
### Parkes

- |                   |             |                   |             |
|-------------------|-------------|-------------------|-------------|
| Fig.1             | 34-13340-01 | Fig.1             | 34-13344-01 |
| Fig.2             | 34-13340-02 | Fig.2             | 34-13344-02 |
| Fig.3             | 34-13340-03 | Fig.3             | 34-13344-03 |
| Fig.4             | 34-13340-04 | Fig.4             | 34-13344-04 |
| Fig.5             | 34-13340-05 | Fig.5             | 34-13344-05 |
| Fig.6             | 34-13340-06 | Fig.6             | 34-13344-06 |
| Fig.7             | 34-13340-07 | Fig.7             | 34-13344-07 |
| Fig.8             | 34-13340-08 | Fig.8             | 34-13344-08 |
| Fig.9             | 34-13340-09 | Fig.9             | 34-13344-09 |
| Fig.1034-13340-10 |             | Fig.1034-13344-10 |             |
- 20.5cm/8 1/8"      17cm/6 3/4"

### Maltz



**Maltz**  
17cm/6 3/4"



34-13348-01



34-13348-02

**PinsmedTC**



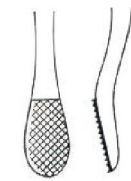
**Miller**  
16cm/6 1/4"



34-13352-01



34-13352-02



19cm/7 1/2"



34-13356-02



34-13356-03



34-13356-04



34-13356-05



34-13356-06



34-13356-07



**Aufricht**  
34-13360-17  
17.5cm/6 7/8"



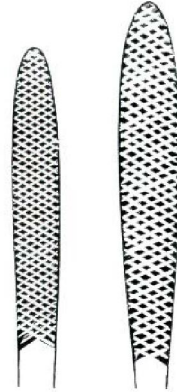
**Fomon**  
34-13364-21  
21cm/8 1/4"



**Maltz**  
34-13368-18  
18cm/7"



**Joseph**  
16cm/6 1/4"



34-13372-01 34-13372-02



**Lewis**  
18cm/7"



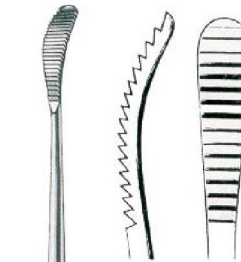
Fine  
34-13376-01



Coarse  
34-13376-02



**Cottle**  
34-13380-21  
21cm/8 1/4"

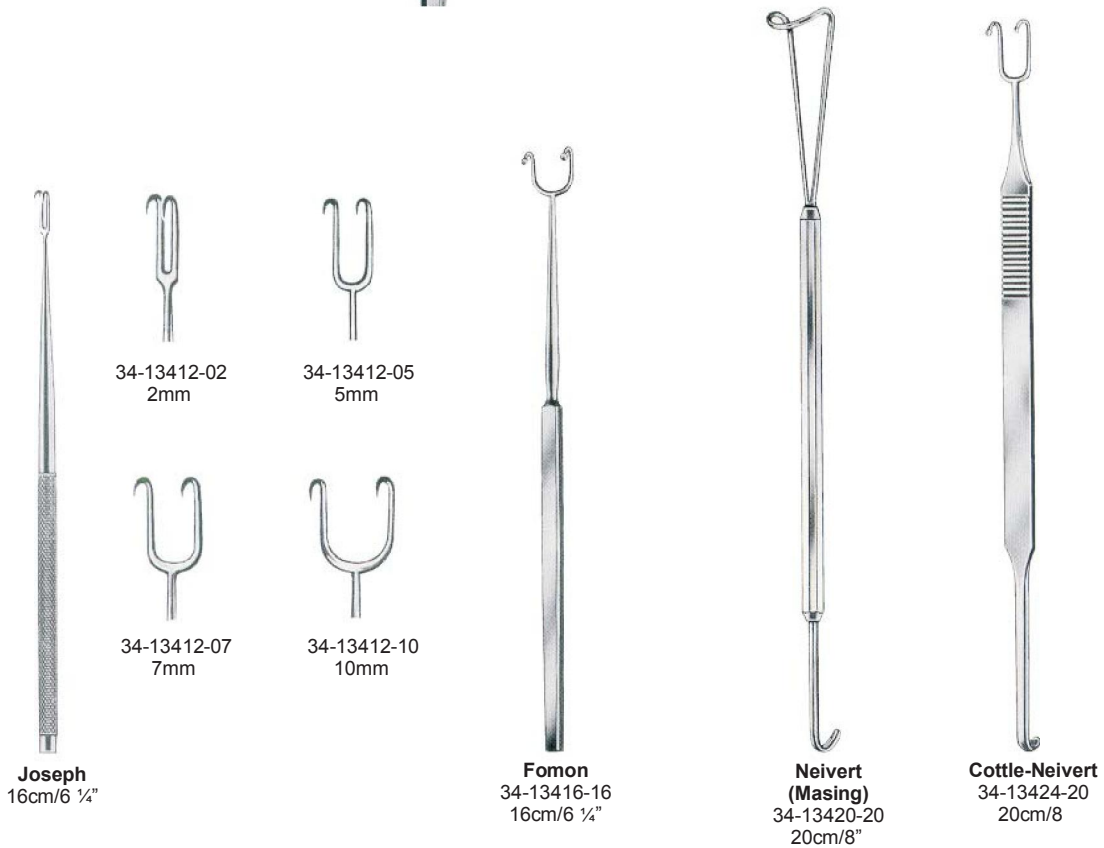


34-13384-01



34-13384-02

**Aufricht**  
21cm/8 1/4"



## Hooks



**Fomon**  
34-13428-14  
14.5cm/5 ¾"



**Cottle**  
34-13432-14  
14.5cm/5 ¾"



**Cottle**  
34-13434-14  
14.5cm/5 ¾"



**Cottle**  
34-13436-14  
14.5cm/5 ¾"

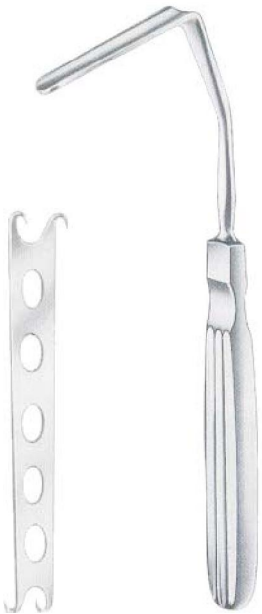


**Cottle**  
34-13440-16  
15cm/6"



**Kilner**  
34-13444-08  
8cm/3 ¼"  
10mm

## Columella Forceps



**Converse**  
34-13448-12  
12cm/4 ¾"

**Aufricht**  
34-13452-16  
16cm/6 ¼"



**Cottle**  
34-13456-10  
10cm/4"

## Tissue Lifter



34-13460-14  
14cm/5 ½"

## Tissue Picks



34-13464-11  
11cm/4 ¾"

1.0mm 34-13468-10  
1.8mm 34-13468-18



**Walsham**  
23cm/9"



34-13472-01



34-13472-02



34-13472-03



**Cottle-Walsham**  
34-13474-22  
22cm/8 3/4"



**Asch**  
34-13476-23  
23cm/9"



**Kressner**  
34-13480-20  
20cm/8"



**Rubin**  
34-13484-20  
20cm/8"





**Faulkner**  
34-13488-21  
21cm/8¼"



**Sewall**  
34-13492-20  
20cm/8"  
6mm



**Coakley**  
17cm/6¾"



34-13496-01    34-13496-02    34-13496-03



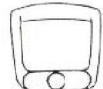
34-13496-04    34-13496-05    34-13496-06

Ringmesser



**Beckmann**  
22cm/8 ¾"

34-13500-01



34-13501-01

34-13500-02



34-13501-02

34-13500-03



34-13501-03

34-13500-04



34-13501-04

34-13500-05



34-13501-05

34-13500-06



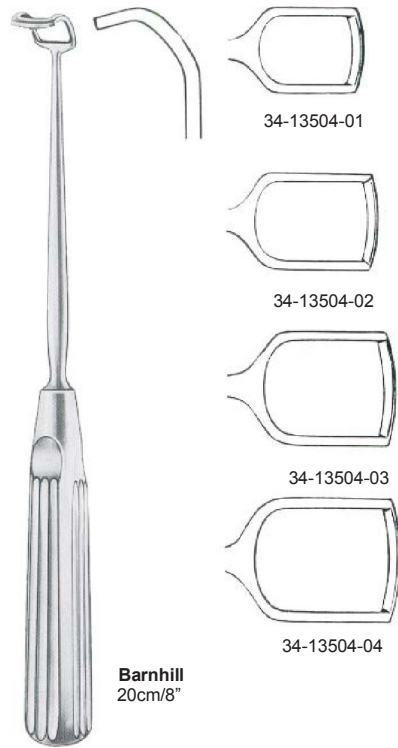
34-13501-06

AdenoidCurettes

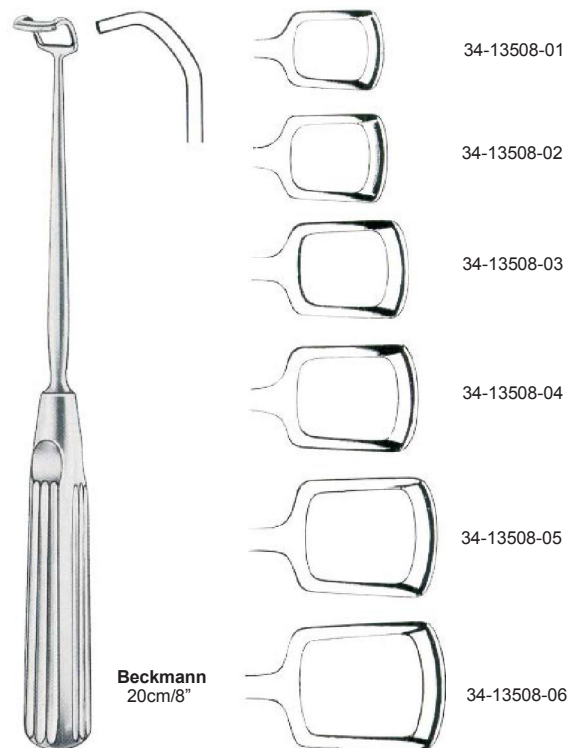


**Negus**  
20cm/8"





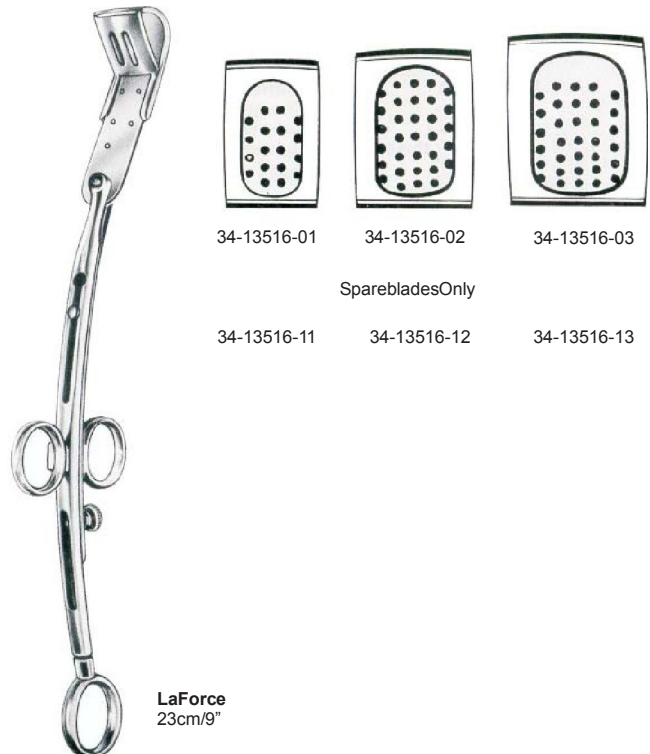
**Barnhill**  
20cm/8"



**Beckmann**  
20cm/8"



**St. Clair-Thompson**  
22cm/8 3/4"



**LaForce**  
23cm/9"



**Bruenings-Brunk**  
34-13520-19  
19cm/7 1/2"



**Siebenmann**



mmØ		
34-13524-15	1.5	34-13526-15
34-13524-17	1.7	34-13526-17
34-13524-20	2.0	34-13526-20
34-13524-25	2.5	34-13526-25
34-13524-30	3.0	34-13526-30



Hartmann		
Fig.1	mmØ	Fig.2
34-13530-20		34-13534-20
34-13530-25		34-13534-25
34-13530-30		34-13534-30



**Eicken-Killian**  
34-13538-03  
3mmØ/



**Killian**  
34-13538-15  
1.5mmØ/



**Ritter-Halle**  
2.5mm 34-13540-25  
3.0mm 34-13540-30  
4.0mm 34-13540-40





**ModellWurzburg**

Fig.		mm
2	35-13562-02	23x65
3	35-13562-03	24x80
4	35-13562-04	25x93
5	35-13562-05	26x108

Fig.		mm
1	35-13566-0128x66	
2	35-13566-0232x75	
3	35-13566-0334x83	
4	35-13566-0437x93	
5	35-13566-0538x100	



ChestSupportfor  
Mouthgag  
35-13570-00



**MouthGags**

**Baby-Molt**  
35-13574-10  
10cm/4"

**Molt**  
35-13576-1111cm/4 1/4"  
35-13576-1414cm/5 1/2"

**Roser-Konig**  
35-13580-1616cm/6 1/4"  
35-13580-1919cm/7 1/2"

**Denhart**  
35-13584-12  
12cm/4 3/4"



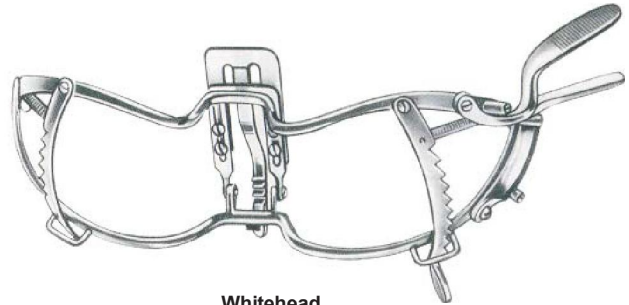
**Heister**  
35-13588-13  
13cm/5"



**Fergusson-Ackland**  
35-13592-1818cm/7"  
35-13592-2020cm/8"



**Whitehead**  
35-13596-1111cm/4 1/4"  
35-13596-1313cm/5"  
35-13596-1515cm/6"



**Whitehead**  
35-13600-13  
13cm/5"



**Jennings**  
35-13604-0909cm/3 1/2"  
35-13604-1111cm/4 1/4"  
35-13604-1313cm/5"  
35-13604-1515cm/6"



**Sternberg**  
35-13608-1212cm/4 3/4"  
35-13608-1414cm/5 1/2"  
35-13608-1616cm/6 1/4"



35-13612-19  
19cm/7 1/2"

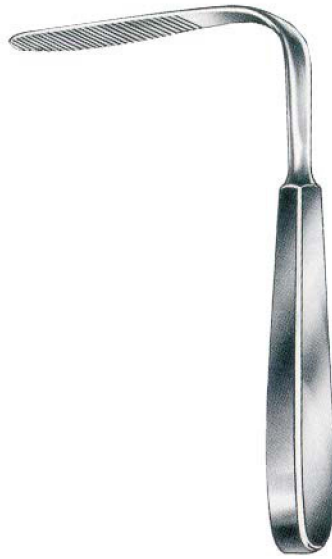


**Moritz-Schmidt**  
35-13616-19  
19cm/7 1/2"





**Hartmann**  
35-13620-15  
15cm/6"



**Tobold**  
35-13624-14  
14.5cm/5 ¾"



**Fraenkel**  
35-13628-19  
19cm/7 ½"



**Frenzel**  
35-13632-16  
16.5cm/6 ½"



35-13636-13  
13cm/5"



35-13640-14  
14.5cm/5 ¾"



35-13646-14  
14.5cm/5 ¾"



**Kroenig**  
35-13650-15  
15cm/6"



**Mayo**  
35-13654-17  
17cm/6 ¾"





**Bruenings**  
35-13658-19  
19cm/7 1/2"



**Bruenings**  
35-13662-19  
19cm/7 1/2"



35-13666-01

35-13666-02

**Wieder**



**Collin**  
35-13670-16  
16cm/6 1/4"



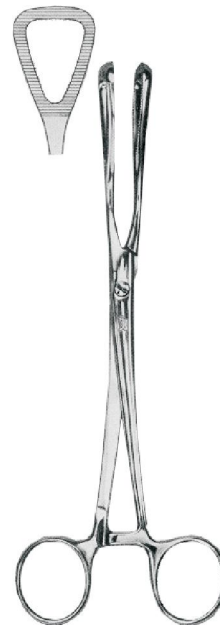
**Collin**  
35-13672-19  
19cm/7 1/2"



35-13676-19  
19cm/7 1/2"



**Young**  
35-13680-17  
17cm/6 3/4"

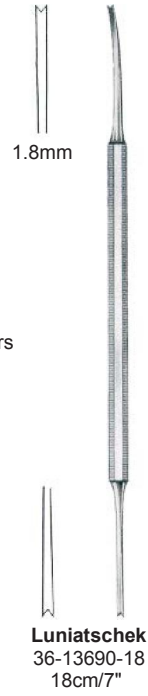


**Guys**  
35-13682-19  
19cm/7 1/2"

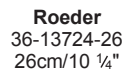
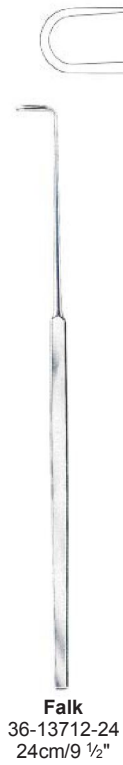
FingerProtectors



**Lengenbeck**  
35-13684-01 Ø22.0mm  
35-13684-02 Ø24.5mm  
35-13684-03 Ø26.5mm



GauzePackers





36-13728-17  
17.5cm/6 7/8"



**Fischer**  
36-13732-22  
22.5cm/8 7/8"



**Douglas**  
36-13736-21  
21cm/8 1/4"



**Abraham**  
36-13740-21  
21cm/8 1/4"



**Bruenings**  
36-13744-23  
23cm/9"



**Abraham**  
36-13748-19  
19cm/7 1/2"



**Canfield**  
36-13752-21  
21cm/8 1/4"



**Hurd**  
36-13756-22  
22.5cm/8 7/8"



**Yankauer**  
36-13760-21  
21cm/8 1/4"



**Luniatschek**  
36-13764-19  
19cm/7 1/2"



**Henke**  
23cm/9"



36-13768-01



36-13768-02



**Nager**  
36-13772-23  
23cm/9"



**Wide**  
36-13776-1818mm  
36-13776-2020mm  
36-13776-2222mm



**Love**  
23cm/9"



**Hofer**  
36-13784-24  
24cm/9 1/2"

**Haslinger**  
36-13780-16



**Museux**  
Straight  
36-13788-20  
20cm/8"

Curved  
36-13789-20  
20cm/8"



**Ballenger**  
36-13792-21  
21.5cm/8 1/2"



**White**  
36-13796-1818cm/7"  
36-13796-2323cm/9"



**MarschikKroni**  
36-13800-20  
20.5cm/8"



**Colver**  
Straight  
36-13804-19  
19cm/7 1/2"

Curved  
36-13805-19  
19cm/7 1/2"



**Blohmke**  
36-13808-20  
20cm/8"



**Eves**  
36-13812-28  
28cm/11"



**Eves**  
36-13814-28  
28cm/11"



**Bruenings**  
36-13818-28  
28cm/11"



With 1 Straight Tip

**Brown**  
36-13822-00



With 1 Straight Tip

**Tyding**  
36-13826-00





**Sluder-Ballenger**  
Complete, With 3 Tips  
36-13830-00



TonsilPunchForceps

36-13834-1313mmO /  
36-13834-1515mmO /  
36-13834-1717mmO /



















**Hartmann**

TonsilHaemostats





























**Corwin**  
36-13838-14  
14cm/5 1/2"

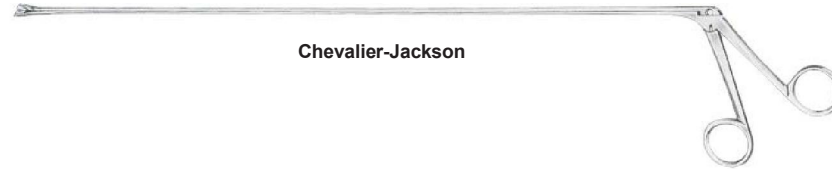


	MicroScissors	MicroForceps	CupShapedForceps 2.5mmO/
Straight	 37-13842-01	 37-13844-01	 37-13846-01
StraightHorizontal	 37-13842-02	 37-13844-02	
AngledUp	 37-13842-03	 37-13844-03	 37-13846-03
AngledUpHorizontal	 37-13842-04	 37-13844-04	 37-13846-04
CurvedRight	 37-13842-05	 37-13844-05	 37-13846-05
CurvedLeft	 37-13842-06	 37-13844-06	 37-13846-06
			 Oval 37-13846-07



LengthofShaft

LengthofShaft ForChildren	35cm	40cm	50cm	60cm	
	37-13850-01		37-13852-01	37-13854-01	37-13856-01
	37-13850-02		37-13852-02	37-13854-02	37-13856-02
	37-13850-03		37-13852-03	37-13854-03	37-13856-03
	37-13850-04		37-13852-04	37-13854-04	37-13856-04
	37-13850-05		37-13852-05	37-13854-05	37-13856-05
	37-13850-06		37-13852-06	37-13854-06	37-13856-06
	37-13850-07		37-13852-07	37-13854-07	37-13856-07
	37-13850-08		37-13852-08	37-13854-08	37-13856-08
	37-13850-09		37-13852-09	37-13854-09	37-13856-09
	37-13850-10		37-13852-10	37-13854-10	37-13856-10
	37-13850-11		37-13852-11	37-13854-11	37-13856-11
	37-13850-12		37-13852-12	37-13854-12	37-13856-12
	37-13850-13		37-13852-13	37-13854-13	37-13856-13



**Chevalier-Jackson**



Length										
cm	in									
30	12	37-13860-30	37-13862-30	37-13864-30	37-13866-30	37-13868-30	37-13870-30	37-13872-30	37-13874-30	
40	16	37-13860-40	37-13862-40	37-13864-40	37-13866-40	37-13868-40	37-13870-40	37-13872-40	37-13874-40	
50	20	37-13860-50	37-13862-50	37-13864-50	37-13866-50	37-13868-50	37-13870-50	37-13872-50	37-13874-50	
60	24	37-13860-60	37-13862-60	37-13864-60	37-13866-60	37-13868-60	37-13870-60	37-13872-60	37-13874-60	

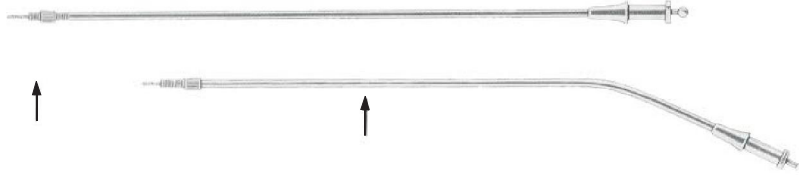
**Interchangeable Tips**



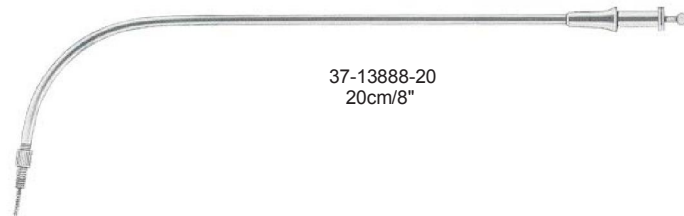
**Huber**  
37-13876-00



**Bruenings**  
37-13880-00



Straight	Lengths		Angular
	cm	in	
37-13884-20	20	08	37-13885-20
37-13884-30	30	12	37-13885-30
37-13884-40	40	16	37-13885-40
37-13884-50	50	20	37-13885-50
37-13884-60	60	24	37-13885-60



37-13888-20  
20cm/8"



**Baracani**  
37-13890-01



**Seiffert**  
37-13892-01



**Frankel**  
37-13894-01



**Scheinmann**  
37-13896-01



**Scheinmann**  
37-13896-02



**Bruenings**  
37-13898-012mmO /  
37-13898-023mmO /



**Bruenings**  
37-13898-03



**Bruenings**  
37-13898-04



**Lange**  
37-13900-01



**Krause**  
37-13902-01



**Krause**  
37-13904-01



**Cordes**  
37-13906-01



**Schumacher**  
37-13908-01



**Cordes**



37-13910-01



37-13910-02



**Flatau**  
37-13912-01



**Fränkel**  
37-13914-01



MetalHandles



Fig.	mmØ
000	06
00	08
0	10
1	12
2	14
3	16
4	18
5	20
6	22
7	24
8	26
9	28
10	30

37-13916-06
37-13916-08
37-13916-10
37-13916-12
37-13916-14
37-13916-16
37-13916-18
37-13916-20
37-13916-22
37-13916-24
37-13916-26
37-13916-28
37-13916-30

37-13918-06
37-13918-08
37-13918-10
37-13918-12
37-13918-14
37-13918-16
37-13918-18
37-13918-20
37-13918-22
37-13918-24
37-13918-26
37-13918-28
37-13918-30

**Michel**

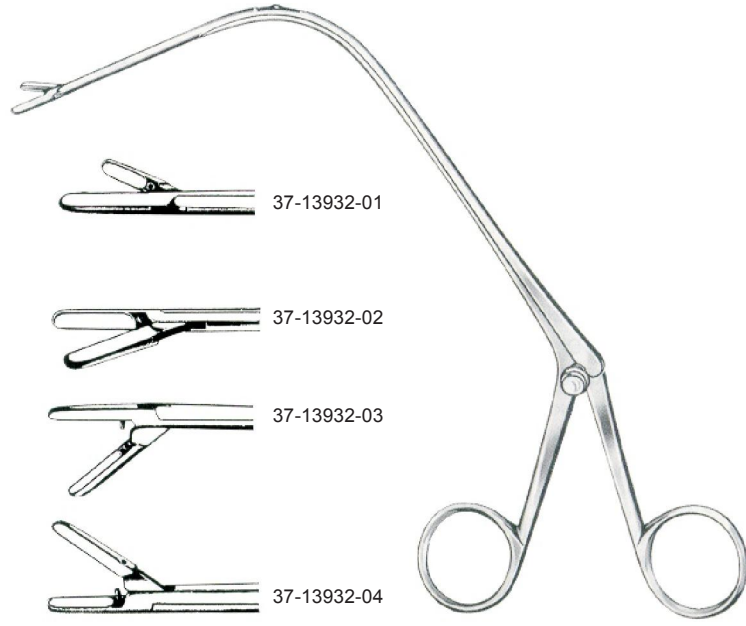
37-13920-10
37-13920-12
37-13920-14
37-13920-16
37-13920-18
25cm/10"

37-13924-01
-------------

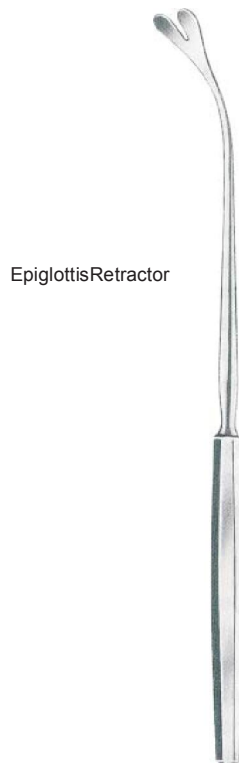




**Fraenkel**  
37-13928-18  
18cm/7"



**Jurasz**  
23cm/9"



Epiglottis Retractor

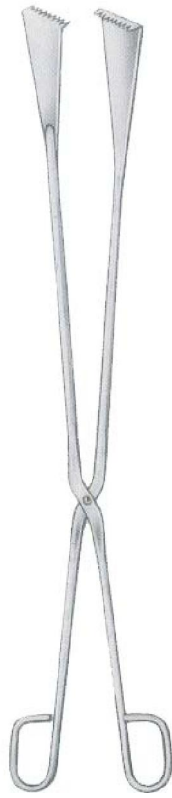
**Reichert**  
37-13936-24  
24cm/9 1/2"



**Killian**  
37-13940-20  
20cm/8"



**Davis**  
38-13944-1616cm/6 ¼"  
38-13944-2424cm/9 ½"



**Sauerbruch**  
38-13948-55  
55cm/21 ½"



38-13952-2020cm/8"  
38-13952-2828cm/11"  
38-13952-3030cm/12"



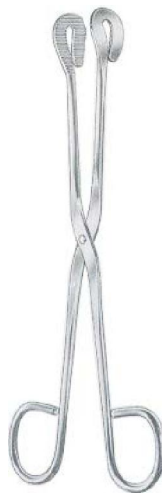
**Rogge**  
38-13956-23  
23cm/9"



**Cheatle**  
38-13960-27  
27cm/10 ½"



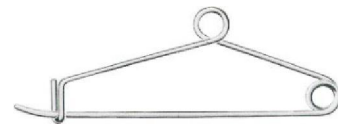
**Universal**  
38-13964-20 20cm/8"  
38-13964-28 28cm/11"



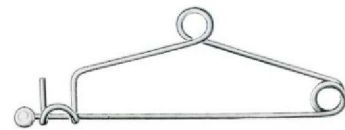
**Universal**  
38-13968-20  
38-13968-28



**Bunt**  
38-13972-01  
10.5cm/4 ¼"

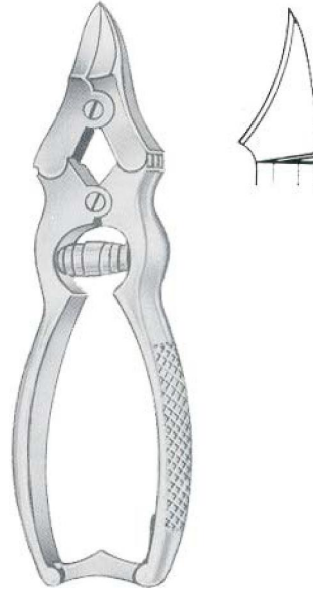


**Mayo**  
38-13972-02  
14cm/5 ½"



**Mayo**  
38-13972-03  
14cm/5 ½"

Stainless



39-13976-15  
15cm/6"



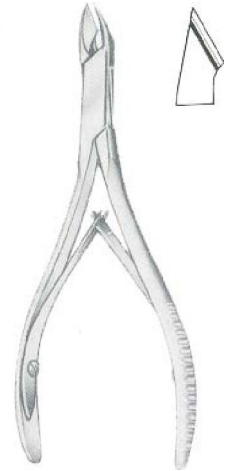
39-13980-10  
39-13981-10  
10cm/4"



Straight  
Curved  
39-13984-10  
39-13985-10  
10cm/4"



39-13992-10  
10cm/4"



39-13996-11  
11cm/4 1/2"  
39-13996-13



cm	in		
11	4½"	39-14000-11	
13	5"	39-14000-13	
14	5½"		39-14004-14
16	6¼"		39-14004-16



cm	in		
11	4½"		39-14012-11
13	5"		39-14012-13
14	5½"	39-14008-14	
15	6"	39-14008-15	39-14012-15

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## 14

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14-01711-10	39	14-01818-14	45	14-01865-25	48	14-01961-11	53	14-02115-17	60	14-02327-10	69
14-01711-11	39	14-01820-14	45	14-01865-28	48	14-01964-09	53	14-02118-18	60	14-02329-10	69
14-01711-13	39	14-01822-14	45	14-01865-30	48	14-01964-10	53	14-02119-18	60	14-02332-14	69
14-01711-14	39	14-01825-14	46	14-01867-18	48	14-01964-11	53	14-02123-17	60	14-02332-18	69
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14-01752-16	41	14-01844-23	47	14-01887-14	49	14-02025-19	56	14-02207-22	64	14-02361-22	72
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14-01763-14	42	14-01848-20	47	14-01896-16	50	14-02039-20	57	14-02222-01	65	14-02371-19	73
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14-01779-15	43	14-01850-30	47	14-01908-12	51	14-02059-28	58	14-02243-09	65	14-02404-16	75
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14-01779-19	43	14-01852-20	47	14-01913-12	51	14-02061-23	58	14-02247-09	65	14-02408-16	75
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14-01782-17	43	14-01852-28	47	14-01918-12	51	14-02063-16	58	14-02255-08	66	14-02413-16	75
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14-01807-14	44	14-01861-30	48	14-01959-10	53	14-02099-18	59	14-02315-10	69	14-02467-10	80



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Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #
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14-02471-10	80	14-02599-12	86	14-02768-11	94	15-02814-14	95	15-02952-14	100	15-03058-12	103
14-02474-10	80	14-02603-12	86	14-02769-11	94	15-02814-15	95	15-02952-15	100	15-03058-13	103
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15-04194-22	112	16-04299-14	117	16-04394-13	121	16-04491-22	126	16-04615-25	132	16-04736-25	138
15-04196-16	112	16-04302-10	117	16-04394-14	121	16-04495-19	126	16-04615-28	132	16-04739-21	138



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Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #
16-04743-24	138	16-04894-13	145	17-05006-16	151	17-05097-02	155	17-05214-01	160	17-05287-08	164
16-04747-25	139	16-04896-13	145	17-05010-08	151	17-05097-03	155	17-05214-02	160	17-05301-20	164
16-04751-23	139	16-04900-20	146	17-05010-10	151	17-05097-04	155	17-05218-00	160	17-05302-20	164
16-04753-23	139	16-04900-25	146	17-05010-12	151	17-05098-01	155	17-05218-01	160	17-05305-14	164
16-04755-22	139	16-04901-20	146	17-05010-14	151	17-05098-02	155	17-05218-02	160	17-05308-03	165
16-04757-22	139	16-04901-25	146	17-05010-16	151	17-05098-03	155	17-05218-03	160	17-05308-04	165
16-04761-22	139	16-04904-20	146	17-05010-18	151	17-05098-04	155	17-05222-13	160	17-05311-02	165
16-04765-18	140	16-04904-25	146	17-05014-12	151	17-05101-04	155	17-05224-14	160	17-05311-03	165
16-04769-14	140	16-04905-20	146	17-05014-14	151	17-05102-04	155	17-05228-19	160	17-05311-04	165
16-04773-18	140	16-04905-25	146	17-05014-16	151	17-05106-02	156	17-05232-21	160	17-05311-06	165
16-04773-20	140	16-04908-25	146	17-05014-18	151	17-05109-13	156	17-05236-13	160	17-05312-02	165
16-04777-20	140	16-04909-25	146	17-05017-16	151	17-05113-14	156	17-05240-18	160	17-05312-03	165
16-04781-18	140	16-04912-28	146	17-05018-16	151	17-05117-16	156	17-05244-16	161	17-05312-04	165
16-04785-18	141	16-04913-28	146	17-05021-16	151	17-05119-16	156	17-05248-12	161	17-05312-06	165
16-04789-20	141	16-04916-20	146	17-05023-16	151	17-05122-18	156	17-05250-15	161	17-05316-20	166
16-04791-20	141	16-04917-20	146	17-05025-16	151	17-05124-18	156	17-05254-16	161	17-05320-01	166
16-04794-24	141	16-04920-25	147	17-05029-16	151	17-05126-18	156	17-05256-15	161	17-05320-02	166
16-04795-24	141	16-04924-25	147	17-05031-16	151	17-05128-18	156	17-05260-19	161	17-05320-03	166
16-04799-20	141	16-04928-21	147	17-05035-16	151	17-05130-18	156	17-05263-22	162	17-05320-04	166
16-04801-20	141	16-04932-26	147	17-05037-16	151	17-05132-18	156	17-05264-22	162	17-05324-23	166
16-04805-20	141	16-04935-26	147	17-05040-10	152	17-05135-02	156	17-05267-23	162	17-05327-28	167
16-04808-09	142	16-04937-26	147	17-05040-17	152	17-05135-03	156	17-05268-23	162	17-05331-24	167
16-04812-05	142	16-04941-26	148	17-05040-20	152	17-05135-04	156	17-05273-01	162	17-05332-24	167
16-04812-09	142	16-04944-18	148	17-05040-22	152	17-05135-06	156	17-05273-02	162	17-05335-24	167
16-04816-09	142	16-04944-24	148	17-05043-01	152	17-05136-02	156	17-05273-03	162	17-05337-25	167
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16-04820-11	142	16-04946-24	148	17-05043-03	152	17-05136-04	156	17-05273-06	162	17-05344-01	168
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16-04868-15	144	16-04970-08	149	17-05080-08	154	17-05146-18	157	17-05280-04	163	17-05372-01	169
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16-04872-50	144	16-04971-08	149	17-05080-17	154	17-05154-13	157	17-05281-02	163	17-05376-02	169
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16-04872-70	144	16-04971-20	149	17-05080-23	154	17-05162-11	157	17-05281-04	163	17-05376-04	169
16-04872-80	144	16-04974-10	149	17-05082-08	154	17-05166-18	158	17-05281-06	163	17-05376-05	169
16-04876-13	144	16-04974-14	149	17-05082-11	154	17-05170-17	158	17-05285-24	163	17-05376-06	169
16-04876-17	144	16-04974-20	149	17-05082-15	154	17-05172-17	158	17-05287-21	163	17-05376-07	169
16-04876-20	144	16-04975-10	149	17-05082-17	154	17-05176-19	158	17-05288-21	163	17-05376-08	169
16-04876-25	144	16-04975-14	149	17-05082-20	154	17-05178-19	158	17-05291-21	163	17-05376-09	169
16-04876-30	144	16-04975-20	149	17-05082-23	154	17-05182-02	158	17-05292-21	163	17-05376-10	169
16-04880-13	144			17-05089-01	155	17-05182-03	158	17-05295-01	164	17-05380-21	169
16-04880-17	144			17-05089-02	155	17-05182-04	158	17-05295-02	164	17-05384-01	170
16-04880-20	144			17-05089-03	155	17-05186-20	158	17-05295-03	164	17-05384-02	170
16-04880-25	144	17-04979-13	150	17-05089-04	155	17-05190-16	159	17-05295-04	164	17-05384-03	170
16-04880-30	144	17-04980-13	150	17-05090-01	155	17-05192-16	159	17-05295-06	164	17-05384-04	170
16-04884-22	145	17-04984-20	150	17-05090-02	155	17-05195-16	159	17-05295-08	164	17-05384-05	170
16-04884-25	145	17-04988-19	150	17-05090-03	155	17-05196-16	159	17-05296-01	164	17-05388-01	170
16-04884-27	145	17-04988-28	150	17-05090-04	155	17-05200-16	159	17-05296-02	164	17-05388-02	170
16-04885-22	145	17-04990-19	150	17-05093-01	155	17-05204-15	159	17-05296-03	164	17-05388-03	170
16-04885-25	145	17-04990-28	150	17-05093-02	155	17-05206-15	159	17-05296-04	164	17-05388-04	170
16-04885-27	145	17-04993-15	150	17-05093-03	155	17-05209-01	159	17-05296-06	164	17-05392-01	170
16-04888-13	145	17-04995-18	150	17-05093-04	155	17-05209-02	159	17-05296-08	164	17-05392-02	170
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16-04890-13	145	17-05001-18	150	17-05094-03	155	17-05210-02	159	17-05297-03	164	17-05392-05	170
16-04890-15	145	17-05002-13	150	17-05094-04	155	17-05210-03	159	17-05297-04	164	17-05392-06	170
16-04890-18	145	17-05002-18	150	17-05097-01	155	17-05214-00	160	17-05297-06	164	17-05396-29	171

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Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #
17-05396-32	171	17-05500-01	176	17-05590-02	181	17-05759-10	191	17-05872-01	198	17-05968-01	206
17-05396-33	171	17-05500-02	176	17-05590-03	181	17-05760-10	191	17-05876-00	198	17-05968-02	206
17-05400-01	171	17-05500-03	176	17-05590-04	181	17-05763-10	191	17-05876-01	198	17-05972-00	206
17-05400-02	171	17-05502-26	176	17-05590-05	181	17-05764-10	191	17-05876-02	198	17-05972-01	206
17-05400-03	171	17-05506-01	177	17-05590-06	181	17-05767-10	191	17-05876-03	198	17-05972-02	206
17-05402-01	171	17-05506-02	177	17-05594-01	182	17-05768-10	191	17-05878-00	198	17-05972-03	206
17-05402-02	171	17-05508-01	177	17-05594-02	182	17-05772-11	191	17-05878-01	198	17-05972-04	206
17-05402-03	171	17-05508-02	177	17-05600-01	182	17-05774-11	191	17-05878-02	198	17-05972-05	206
17-05406-21	172	17-05510-27	177	17-05600-02	182	17-05777-13	191	17-05880-00	198	17-05976-00	207
17-05410-17	172	17-05512-27	177	17-05604-01	182	17-05778-13	191	17-05880-01	198	17-05976-01	207
17-05414-01	172	17-05516-02	177	17-05604-02	182	17-05781-10	192	17-05880-02	198	17-05976-02	207
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17-05476-23	175	17-05572-01	180	17-05722-23	189	17-05832-20	194	17-05948-05	203	18-06006-18	210
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17-05492-03	176	17-05572-08	180	17-05739-07	190	17-05843-27	195	17-05952-02	204	18-06008-18	210
17-05492-04	176	17-05574-01	180	17-05740-05	190	17-05844-27	195	17-05956-00	204	18-06008-20	210
17-05492-05	176	17-05574-02	180	17-05740-07	190	17-05847-27	195	17-05956-01	204	18-06008-25	210
17-05492-06	176	17-05574-03	180	17-05743-07	190	17-05848-27	196	17-05956-02	204	18-06010-14	210
17-05492-07	176	17-05578-28	180	17-05746-08	190	17-05851-31	196	17-05960-00	205	18-06010-16	210
17-05496-01	176	17-05582-01	181	17-05746-11	190	17-05852-31	196	17-05960-01	205	18-06012-11	210
17-05496-02	176	17-05582-02	181	17-05750-09	190	17-05856-33	196	17-05960-02	205	18-06012-13	210
17-05496-03	176	17-05586-01	181	17-05753-07	190	17-05861-27	196	17-05964-00	205	18-06012-14	210
17-05496-04	176	17-05586-02	181	17-05753-10	190	17-05864-33	197	17-05964-01	205	18-06012-16	210
17-05496-05	176	17-05586-03	181	17-05756-07	190	17-05868-00	197	17-05964-02	205	18-06012-18	210
17-05496-06	176	17-05590-01	181	17-05756-10	190	17-05872-00	197	17-05968-00	206	18-06012-20	210

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18-06006-16	210
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18-06006-20	210
18-06006-25	210
18-06008-11	210
18-06008-13</	



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Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #
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18-06016-18	210	18-06116-09	214	19-06222-18	223	19-06342-30	230	19-06480-15	237	19-06609-16	243
18-06020-14	210	18-06116-12	214	19-06222-21	223	19-06343-16	230	19-06484-15	237	19-06612-01	244
18-06020-18	210	18-06116-15	214	19-06222-23	223	19-06343-18	230	19-06488-15	237	19-06612-02	244
18-06024-11	210	18-06120-00	215	19-06223-18	223	19-06343-20	230	19-06492-18	237	19-06617-01	244
18-06024-13	210	18-06120-02	215	19-06223-21	223	19-06343-24	230	19-06492-20	237	19-06617-02	244
18-06024-14	210	18-06120-03	215	19-06223-23	223	19-06343-26	230	19-06492-23	237	19-06622-01	244
18-06024-16	210	18-06120-04	215	19-06226-12	224	19-06343-30	230	19-06492-26	237	19-06622-02	244
18-06024-18	210	18-06120-06	215	19-06227-12	224	19-06347-21	230	19-06492-31	237	19-06627-01	244
18-06024-20	210	18-06120-07	215	19-06229-12	224	19-06350-16	230	19-06496-13	237	19-06627-02	244
18-06025-14	210	18-06120-08	215	19-06232-12	224	19-06350-18	230	19-06498-16	237	19-06632-01	245
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18-06028-18	210	18-06124-40	215	19-06239-14	225	19-06354-20	230	19-06510-18	238	19-06642-01	245
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18-06032-16	210	18-06124-80	215	19-06246-14	225	19-06362-26	231	19-06514-13	238	19-06648-02	246
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18-06033-16	210	18-06128-04	215	19-06250-14	225	19-06368-27	231	19-06514-18	238	19-06653-02	246
18-06036-10	210	18-06128-05	215	19-06254-12	226	19-06372-23	231	19-06514-20	238	19-06658-01	246
18-06040-16	210	18-06128-06	215	19-06255-12	226	19-06376-27	231	19-06514-23	238	19-06658-02	246
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18-06052-23	211			19-06271-16	226	19-06396-11	232	19-06516-23	238	19-06677-01	247
18-06054-28	211			19-06274-14	227	19-06398-14	232	19-06516-26	238	19-06677-02	247
18-06058-16	211			19-06274-18	227	19-06398-18	232	19-06520-15	238	19-06685-01	247
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18-06062-02	211	19-06141-14	216	19-06275-14	227	19-06404-14	233	19-06520-20	238	19-06690-32	248
18-06062-03	211	19-06144-14	216	19-06275-18	227	19-06406-16	233	19-06524-18	238	19-06694-21	248
18-06062-04	211	19-06144-18	216	19-06275-21	227	19-06408-14	233	19-06524-20	238	19-06698-20	248
18-06070-01	211	19-06145-14	216	19-06278-14	227	19-06412-15	233	19-06528-26	239	19-06702-19	248
18-06070-02	211	19-06145-18	216	19-06278-18	227	19-06416-18	233	19-06532-27	239	19-06705-01	249
18-06070-03	211	19-06148-09	216	19-06278-21	227	19-06420-20	233	19-06534-27	239	19-06705-02	249
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18-06074-16	212	19-06152-14	216	19-06279-18	227	19-06428-14	234	19-06537-27	239	19-06705-21	249
18-06074-18	212	19-06153-14	216	19-06279-21	227	19-06428-17	234	19-06540-14	240	19-06707-25	249
18-06075-18	212	19-06156-09	217	19-06282-14	227	19-06428-20	234	19-06540-17	240	19-06711-01	249
18-06076-18	212	19-06157-09	217	19-06284-14	227	19-06430-14	234	19-06540-20	240	19-06711-02	249
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18-06092-18	212	19-06178-18	218	19-06311-16	228	19-06460-16	236	19-06562-14	241	19-06734-01	252
18-06094-12	212	19-06179-16	218	19-06311-18	228	19-06460-18	236	19-06562-17	241	19-06734-02	252
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18-06098-38	213	19-06187-18	219	19-06315-13	229	19-06461-20	236	19-06574-20	242	19-06738-03	252
18-06100-28	213	19-06190-18	219	19-06318-13	229	19-06461-24	236	19-06574-25	242	19-06738-04	252
18-06100-38	213	19-06194-18	220	19-06322-12	229	19-06461-26	236	19-06578-20	242	19-06742-25	252
18-06104-36	213	19-06194-22	220	19-06324-12	229	19-06464-14	236	19-06578-24	242	19-06746-28	252
18-06108-01	213	19-06195-18	220	19-06326-12	229	19-06470-20	236	19-06582-17	242	19-06750-18	253
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18-06108-03	213	19-06198-15	221	19-06334-13	229	19-06474-18	236	19-06586-16	242	19-06754-19	253
18-06112-00	214	19-06199-15	221	19-06338-18	229	19-06474-20	236	19-06586-16	242	19-06756-19	253
18-06112-01	214	19-06206-15	221	19-06338-18	229	19-06474-23	236	19-06590-12	242	19-06760-19	254
18-06112-02	214	19-06207-15	221	19-06342-13	230	19-06474-26	236	19-06594-20	242	19-06762-19	254
18-06112-03	214	19-06210-18	222	19-06342-14	230	19-06474-31	236	19-06594-25	242	19-06764-20	254
18-06112-06	214	19-06211-18	222	19-06342-16	230	19-06476-18	236	19-06598-11	243	19-06768-23	254
18-06112-09	214	19-06214-18	222	19-06342-18	230	19-06476-20	236	19-06600-14	243	19-06772-21	254
18-06112-12	214	19-06215-18	222	19-06342-20	230	19-06476-23	236	19-06602-17	243	19-06776-23	254
18-06112-15	214	19-06218-23	222	19-06342-24	230	19-06476-26	236	19-06604-18	243	19-06780-12	255



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Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #
19-06782-12	255	21-06874-12	258	21-06915-16	260	21-06938-10	261	21-06966-06	263	21-06993-04	266
19-06786-12	255	21-06874-14	258	21-06915-19	260	21-06938-15	261	21-06966-09	263	21-06993-05	266
19-06788-12	255	21-06874-16	258	21-06915-25	260	21-06938-20	261	21-06966-13	263	21-06993-06	266
19-06790-13	255	21-06878-06	258	21-06915-32	260	21-06938-25	261	21-06966-16	263	21-06993-10	266
19-06792-13	255	21-06878-12	258	21-06918-06	260	21-06938-30	261	21-06966-19	263	21-06993-20	266
19-06796-12	255	21-06878-18	258	21-06918-09	260	21-06942-20	262	21-06966-25	263	21-06993-30	266
19-06798-12	255	21-06880-06	258	21-06918-14	260	21-06943-20	262	21-06966-32	263	21-06996-01	267
19-06802-14	255	21-06880-12	258	21-06918-16	260	21-06944-22	262	21-06967-06	263	21-06996-02	267
19-06806-14	255	21-06880-18	258	21-06918-19	260	21-06948-05	263	21-06967-09	263	21-06996-03	267
19-06810-17	255	21-06882-06	258	21-06918-25	260	21-06948-09	263	21-06967-13	263	21-06996-04	267
19-06812-17	255	21-06882-12	258	21-06918-32	260	21-06950-06	263	21-06967-16	263	21-06996-05	267

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20-06840-28	256	21-06893-15	259	21-06922-13	261	21-06952-10	263	21-06972-05	264	21-06998-03	267
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21-06868-16	258	21-06910-07	260	21-06923-18	261	21-06957-85	263	21-06988-06	266	21-07012-02	268
21-06870-04	258	21-06910-08	260	21-06930-04	261	21-06957-90	263	21-06988-10	266	21-07012-10	268
21-06870-06	258	21-06911-02	260	21-06930-06	261	21-06957-95	263	21-06988-20	266	21-07012-20	268
21-06870-08	258	21-06911-03	260	21-06930-08	261	21-06960-06	263	21-06988-30	266	21-07014-01	268
21-06870-10	258	21-06911-04	260	21-06930-10	261	21-06960-09	263	21-06990-01	266	21-07014-02	268
21-06870-12	258	21-06911-05	260	21-06930-12	261	21-06960-13	263	21-06990-02	266	21-07014-10	268
21-06870-14	258	21-06911-06	260	21-06932-04	261	21-06960-16	263	21-06990-03	266	21-07014-20	268
21-06870-16	258	21-06911-07	260	21-06932-06	261	21-06960-19	263	21-06990-04	266	21-07017-01	268
21-06872-04	258	21-06911-08	260	21-06932-08	261	21-06960-25	263	21-06990-05	266	21-07017-02	268
21-06872-06	258	21-06914-06	260	21-06932-10	261	21-06960-32	263	21-06990-06	266	21-07018-01	269
21-06872-08	258	21-06914-09	260	21-06932-12	261	21-06961-06	263	21-06990-10	266	21-07018-02	269
21-06872-10	258	21-06914-13	260	21-06936-05	261	21-06961-09	263	21-06990-20	266	21-07018-03	269
21-06872-12	258	21-06914-16	260	21-06936-07	261	21-06961-13	263	21-06990-30	266	21-07018-10	269
21-06872-14	258	21-06914-19	260	21-06936-10	261	21-06961-16	263	21-06991-01	266	21-07020-01	269
21-06872-16	258	21-06914-25	260	21-06936-15	261	21-06961-19	263	21-06991-02	266	21-07020-02	269
21-06874-04	258	21-06914-32	260	21-06936-25	261	21-06961-25	263	21-06991-03	266	21-07020-03	269
21-06874-06	258	21-06915-06	260	21-06936-30	261	21-06961-32	263	21-06991-04	266	21-07020-04	269
21-06874-08	258	21-06915-09	260	21-06938-05	261	21-06964-06	263	21-06991-05	266	21-07020-05	269
21-06874-10	258	21-06915-13	260	21-06938-07	261	21-06964-09	263	21-06991-06	266	21-07020-06	269



**21**

Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #
21-07024-10	269	21-07120-10	275	21-07262-12	283	21-07442-21	293	21-07607-18	301	21-07758-13	309
21-07024-20	269	21-07120-15	275	21-07262-19	283	21-07446-21	293	21-07610-17	301	21-07760-18	309
21-07028-01	270	21-07120-20	275	21-07262-25	283	21-07450-16	294	21-07611-17	301	21-07761-18	309
21-07028-02	270	21-07120-25	275	21-07266-15	283	21-07450-24	294	21-07615-15	301	21-07762-13	309
21-07028-03	270	21-07124-17	275	21-07268-15	283	21-07454-17	294	21-07617-15	301	21-07764-17	309
21-07030-01	270	21-07126-19	275	21-07272-21	283	21-07454-21	294	21-07619-15	301	21-07766-17	309
21-07030-10	270	21-07130-20	275	21-07276-19	283	21-07456-17	294	21-07621-15	301	21-07768-23	310
21-07030-20	270	21-07134-16	275	21-07280-19	283	21-07456-21	294	21-07623-18	302	21-07770-31	310
21-07030-30	270	21-07138-19	275	21-07284-17	283	21-07460-18	294	21-07626-17	302	21-07772-27	310
21-07031-01	270	21-07142-29	275	21-07288-14	284	21-07460-23	294	21-07627-17	302	21-07772-30	310
21-07031-10	270	21-07146-13	275	21-07288-15	284	21-07460-25	294	21-07630-18	302	21-07774-12	310
21-07031-20	270	21-07150-15	276	21-07290-15	284	21-07460-28	294	21-07631-18	302	21-07774-15	310
21-07031-30	270	21-07154-16	276	21-07292-15	284	21-07461-23	294	21-07635-15	302	21-07774-35	310
21-07034-03	270	21-07158-01	276	21-07296-12	284	21-07461-25	294	21-07637-15	302	21-07776-39	310
21-07034-04	270	21-07158-02	276	21-07300-06	284	21-07461-28	294	21-07639-15	302	21-07776-43	310
21-07034-05	270	21-07158-03	276	21-07302-08	284	21-07464-21	294	21-07642-20	302	21-07776-45	310
21-07038-13	271	21-07158-04	276	21-07304-26	285	21-07464-27	294	21-07645-15	303	21-07776-47	310
21-07038-14	271	21-07162-06	276	21-07305-26	285	21-07464-30	294	21-07647-15	303	21-07778-00	311
21-07038-17	271	21-07162-08	276	21-07306-17	285	21-07468-19	295	21-07650-15	303	21-07778-01	311
21-07038-20	271	21-07166-29	277	21-07308-17	285	21-07470-19	295	21-07651-15	303	21-07778-02	311
21-07040-13	271	21-07168-29	277	21-07308-22	285	21-07474-17	295	21-07653-18	303	21-07778-03	311
21-07040-16	271	21-07170-28	277	21-07308-24	285	21-07478-25	295	21-07655-18	303	21-07778-04	311
21-07040-20	271	21-07174-01	277	21-07308-26	286	21-07478-26	295	21-07659-18	303	21-07778-05	311
21-07044-00	271	21-07174-02	277	21-07308-28	286	21-07478-27	295	21-07663-18	303	21-07778-06	311
21-07044-01	271	21-07174-03	277	21-07310-24	286	21-07482-15	296	21-07666-18	303	21-07778-10	311
21-07044-02	271	21-07178-22	277	21-07312-24	286	21-07482-19	296	21-07666-23	303	21-07780-15	312
21-07050-15	271	21-07182-01	278	21-07314-24	286	21-07482-24	296	21-07667-18	303	21-07784-14	312
21-07054-00	271	21-07182-02	278	21-07316-22	286	21-07482-26	296	21-07667-23	303	21-07786-21	312
21-07054-01	271	21-07182-03	278	21-07316-26	287	21-07482-28	296	21-07671-20	304	21-07788-14	312
21-07054-02	271	21-07182-04	278	21-07316-29	287	21-07486-30	296	21-07675-24	304	21-07788-14	312
21-07058-13	271	21-07182-05	278	21-07318-27	287	21-07490-22	296	21-07679-03	304	21-07792-14	313
21-07058-15	271	21-07182-06	278	21-07318-34	287	21-07490-22	296	21-07679-04	304	21-07794-16	313
21-07058-16	271	21-07182-07	278	21-07320-29	287	21-07490-30	296	21-07679-05	304	21-07798-01	313
21-07062-15	271	21-07186-01	278	21-07322-24	288	21-07494-23	296	21-07681-03	304	21-07798-02	313
21-07064-18	271	21-07186-02	278	21-07324-25	288	21-07494-26	296	21-07681-04	304	21-07798-03	313
21-07069-01	272	21-07188-01	278	21-07324-21	288	21-07498-22	296	21-07681-05	304	21-07798-04	313
21-07069-02	272	21-07188-02	278	21-07328-25	288	21-07498-25	296	21-07684-22	305	21-07798-05	313
21-07069-03	272	21-07190-01	278	21-07332-23	288	21-07498-33	296	21-07685-22	305	21-07802-18	313
21-07069-04	272	21-07190-02	278	21-07336-32	289	21-07502-26	297	21-07685-22	305	21-07802-20	313
21-07069-05	272	21-07194-04	279	21-07340-13	289	21-07506-19	297	21-07688-27	305	21-07806-16	313
21-07069-06	272	21-07194-06	279	21-07340-19	289	21-07506-23	297	21-07689-23	305	21-07806-20	313
21-07069-10	272	21-07194-08	279	21-07340-23	289	21-07506-26	297	21-07697-23	306	21-07810-16	313
21-07069-20	272	21-07194-10	279	21-07340-30	289	21-07510-33	297	21-07697-23	306	21-07814-13	314
21-07069-30	272	21-07194-13	279	21-07344-26	289	21-07510-45	297	21-07701-02	306	21-07814-18	314
21-07072-01	272	21-07194-19	279	21-07346-26	289	21-07514-33	297	21-07701-03	306	21-07818-17	314
21-07072-02	272	21-07194-25	279	21-07350-44	289	21-07514-45	297	21-07701-04	306	21-07822-15	314
21-07072-03	272	21-07198-01	280	21-07350-64	289	21-07518-14	297	21-07705-03	306	21-07826-17	314
21-07072-04	272	21-07199-02	280	21-07354-01	290	21-07522-12	297	21-07705-04	306	21-07828-17	314
21-07072-05	272	21-07201-03	280	21-07354-02	290	21-07526-13	298	21-07705-05	306	21-07830-19	314
21-07072-06	272	21-07203-04	280	21-07354-03	290	21-07526-13	298	21-07705-08	306	21-07834-15	315
21-07072-10	272	21-07206-05	280	21-07354-04	290	21-07530-20	298	21-07709-23	306	21-07836-18	315
21-07072-20	272	21-07207-14	280	21-07358-05	290	21-07534-17	298	21-07713-23	306	21-07837-16	315
21-07072-30	272	21-07209-14	280	21-07362-01	290	21-07538-17	298	21-07716-30	306	21-07840-12	316
21-07074-01	272	21-07211-20	280	21-07362-02	290	21-07542-19	298	21-07718-30	306	21-07844-15	316
21-07074-02	272	21-07214-20	281	21-07366-21	290	21-07546-18	298	21-07721-20	307	21-07848-18	316
21-07074-03	272	21-07218-08	281	21-07370-17	290	21-07546-22	298	21-07724-14	307	21-07852-18	316
21-07074-04	272	21-07218-17	281	21-07374-17	291	21-07546-22	298	21-07724-19	307	21-07856-18	316
21-07074-05	272	21-07222-10	281	21-07376-17	291	21-07550-12	298	21-07724-22	307	21-07860-22	316
21-07074-06	272	21-07222-13	281	21-07378-17	291	21-07554-18	298	21-07724-22	307	21-07864-22	316
21-07074-10	272	21-07222-19	281	21-07382-22	291	21-07554-50	298	21-07725-14	307	21-07868-16	317
21-07074-20	272	21-07222-25	281	21-07384-22	291	21-07557-17	299	21-07725-17	307	21-07868-21	317
21-07074-30	272	21-07224-10	281	21-07388-17	291	21-07559-17	299	21-07725-19	307	21-07872-01	317
21-07078-30	273	21-07224-13	281	21-07392-21	291	21-07563-17	299	21-07725-22	307	21-07872-02	317
21-07080-27	273	21-07224-19	281	21-07396-01	291	21-07567-12	299	21-07728-15	307	21-07872-03	317
21-07084-25	273	21-07228-07	282	21-07396-02	291	21-07571-14	299	21-07731-15	307	21-07872-04	317
21-07088-24	273	21-07228-15	282	21-07402-20	291	21-07575-15	300	21-07731-17	307	21-07872-05	317
21-07092-22	273	21-07228-20	282	21-07406-20	292	21-07577-15	300	21-07734-15	307	21-07876-18	317
21-07096-15	274	21-07232-18	282	21-07407-20	292	21-07580-20	300	21-07735-15	307	21-07876-27	317
21-07098-15	274	21-07236-20	282	21-07410-23	292	21-07583-14	300	21-07739-17	307	21-07880-01	317
21-07100-15	274	21-07238-20	282	21-07414-19	292	21-07583-17	300	21-07742-18	308	21-07880-02	317
21-07102-15	274	21-07240-23	282	21-07416-19	292	21-07587-18	300	21-07746-18	308	21-07880-03	317
21-07104-19	274	21-07244-15	282	21-07420-21	292	21-07591-20	300	21-07747-18	308	21-07884-10	318
21-07108-18	274	21-07248-17	282	21-07424-19	293	21-07595-16	301	21-07749-27	308	21-07884-12	318
21-07110-21	274	21-07250-16	282	21-07428-18	293	21-07595-16	301	21-07750-23	308	21-07884-20	318
21-07114-19	274	21-07254-20	282	21-07432-20	293	21-07601-19	301	21-07751-27	308	21-07884-30	318
21-07116-18	274	21-07258-16	283	21-07434-20	293	21-07603-16	301	21-07751-27	308	21-07884-40	318
21-07120-05	275	21-07262-06	283	21-07438-17	293	21-07603-19	301	21-07755-24	308	21-07884-51	318



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Cat #	Pg #	Cat #	Pg #
21-07888-00	319	22-08028-11	326
21-07892-01	319	22-08028-12	326
21-07892-02	319	22-08028-13	326
21-07892-03	319	22-08030-08	326
21-07896-10	320	22-08030-09	326
21-07896-35	320	22-08030-10	326
21-07896-50	320	22-08030-11	326
21-07896-70	320	22-08030-12	326
21-07900-18	320	22-08030-13	326
21-07904-24	320		
21-07908-19	320		
21-07912-23	320		
21-07916-21	320		
21-07920-19	321		
21-07924-19	321		
21-07924-25	321		
21-07928-16	321		
21-07932-17	321		
21-07936-14	321		
21-07940-18	321		
21-07944-19	321		
21-07948-34	322		
21-07950-18	322		
21-07950-23	322		
21-07952-40	322		
21-07952-45	322		
21-07952-55	322		
21-07956-31	322		
21-07960-50	322		
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21-07972-03	323		
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21-07972-05	323		
21-07976-20	323		
21-07980-15	323		
21-07980-19	323		
21-07980-24	323		
21-07981-15	323		
21-07981-19	323		
21-07981-24	323		
21-07984-20	324		
21-07985-20	324		
21-07988-13	324		
21-07992-11	324		
21-07996-15	324		
21-07997-15	324		

## 23

Cat #	Pg #
23-08034-15	327
23-08034-16	327
23-08038-15	327
23-08038-20	327
23-08042-17	327

## 24

Cat #	Pg #
24-08046-10	328
24-08050-14	328
24-08052-14	328
24-08056-10	328
24-08060-14	328
24-08064-14	328
24-08068-18	328
24-08072-01	328
24-08072-02	328
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24-08076-06	329
24-08080-01	329
24-08080-02	329
24-08080-03	329
24-08080-04	329
24-08084-14	329
24-08088-14	329
24-08092-01	329
24-08092-02	329
24-08094-15	329

## 22

Cat #	Pg #	Cat #	Pg #
22-08000-13	325	25-08096-15	330
22-08000-15	325	25-08100-15	330
22-08004-14	325	25-08100-19	330
22-08006-13	325	25-08100-23	330
22-08010-07	325	25-08100-25	330
22-08013-16	325	25-08104-12	330
22-08015-16	325	25-08104-14	330
22-08018-21	325	25-08108-16	330
22-08022-08	325	25-08108-20	330
22-08022-10	325	25-08108-25	330
22-08026-04	326	25-08108-30	330
22-08026-05	326	25-08112-15	330
22-08026-06	326	25-08116-15	330
22-08026-07	326	25-08120-16	330
22-08026-08	326	25-08120-20	330
22-08026-09	326	25-08124-20	330
22-08026-10	326	25-08128-15	331
22-08026-11	326	25-08128-19	331
22-08026-12	326	25-08132-18	331
22-08026-13	326	25-08136-16	331
22-08028-04	326	25-08140-20	331
22-08028-05	326	25-08144-16	331
22-08028-06	326	25-08144-20	331
22-08028-07	326	25-08148-16	331
22-08028-08	326	25-08148-18	331
22-08028-09	326	25-08148-20	331
22-08028-10	326		

## 25

Cat #	Pg #
25-08148-24	331
25-08152-16	331
25-08156-16	331
25-08156-20	331
25-08160-18	332
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25-08180-24	332
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25-08263-30	341
25-08266-33	342
25-08267-33	342
25-08270-33	342
25-08271-33	342
25-08274-36	343
25-08278-30	343

## 26

Cat #	Pg #	Cat #	Pg #
25-08279-30	343	26-08400-01	351
25-08282-22	344	25-08400-21	351
25-08286-20	344	25-08404-00	351
25-08290-15	344	25-08404-01	351
25-08291-15	344	25-08408-00	351
25-08294-06	344	25-08408-01	351
25-08294-08	344	25-08412-19	351
25-08294-12	344	25-08414-00	351
25-08294-15	344		
25-08298-19	344		
25-08302-17	345		
25-08306-15	345		
25-08310-01	345	26-08416-20	352
25-08310-02	345	26-08416-22	352
25-08310-03	345	26-08416-24	352
25-08210-04	345	26-08418-23	352
25-08314-01	345	26-08418-24	352
25-08314-02	345	26-08420-23	352
25-08318-22	346	26-08424-23	353
25-08322-01	346	26-08428-23	353
25-08322-02	346	26-08432-23	353
25-08322-03	346	26-08436-20	354
25-08322-04	346	26-08438-20	354
25-08326-02	346	26-08442-01	354
25-08330-00	347	26-08442-02	354
25-08330-01	347	26-08446-01	354
25-08330-02	347	26-08446-02	354
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25-08330-04	347	26-08446-04	354
25-08334-00	347	26-08450-01	355
25-08334-01	347	26-08450-02	355
25-08334-02	347	26-08454-01	355
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Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #
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26-08556-30	363	27-08624-03	367	27-08722-18	374	27-08794-02	378	27-08816-27	380	27-08994-27	389
26-08560-06	364	27-08624-04	367	27-08726-19	374	27-08794-03	378	27-08816-31	380	27-08998-23	389
26-08560-07	364	27-08628-01	368	27-08730-19	374	27-08798-01	379	27-08816-35	380	27-09002-25	389
26-08560-08	364	27-08628-02	368	27-08734-00	374	27-08798-02	379	27-08816-39	380	27-09006-18	389
26-08560-09	364	27-08628-03	368	27-08734-01	374	27-08798-03	379	27-08816-43	380	27-09006-20	389
26-08560-10	364	27-08632-00	368	27-08734-02	374	27-08798-04	379	27-08820-34	381	27-09010-23	390
26-08560-11	364	27-08636-01	368	27-08736-00	374	27-08798-05	379	27-08822-28	381	27-09014-22	390
26-08560-12	364	27-08636-02	368	27-08736-01	374	27-08798-06	379	27-08824-28	381	27-09016-22	390
26-08560-13	364	27-08640-00	368	27-08736-02	374	27-08798-07	379	27-08826-28	381	27-09020-01	390
26-08560-14	364	27-08644-01	369	27-08740-00	375	27-08798-08	379	27-08830-24	381	27-09020-02	390
26-08560-15	364	27-08644-02	369	27-08740-01	375	27-08798-09	379	27-08832-24	381	27-09020-03	390
26-08560-16	364	27-08644-03	369	27-08740-02	375	27-08798-10	379	27-08836-28	381	27-09020-04	390
26-08560-17	364	27-08648-01	369	27-08742-00	375	27-08798-11	379	27-08838-28	381	27-09020-05	390
26-08560-18	364	27-08648-02	369	27-08742-01	375	27-08798-12	379	27-08842-32	382	27-09020-17	390
26-08560-19	364	27-08648-03	369	27-08742-02	375	27-08798-13	379	27-08844-32	382	27-09026-17	390
26-08560-20	364	27-08652-01	369	27-08746-01	375	27-08798-14	379	27-08846-32	382	27-09030-27	390
26-08560-21	364	27-08652-02	369	27-08746-02	375	27-08798-15	379	27-08850-32	382	27-09034-27	391
26-08560-22	364	27-08656-01	369	27-08746-03	375	27-08798-16	379	27-08852-32	382	27-09038-04	391
26-08560-23	364	27-08656-02	369	27-08750-01	376	27-08798-17	379	27-08854-32	382	27-09038-05	391
26-08560-24	364	27-08658-02	369	27-08750-02	376	27-08798-18	379	27-08858-25	382	27-09042-24	391
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26-08562-11	364	27-08666-03	370	27-08752-05	376	27-08798-24	379	27-08872-01	383	27-09054-30	392
26-08562-12	364	27-08670-01	370	27-08754-01	376	27-08798-25	379	27-08874-01	383	27-09056-30	392
26-08562-13	364	27-08670-02	370	27-08754-02	376	27-08798-26	379	27-08874-02	383	27-09060-30	392
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26-08562-15	364	27-08674-01	371	27-08754-04	376	27-08798-28	379	27-08876-01	384	27-09066-30	392
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26-08562-21	364	27-08682-02	371	27-08760-02	376	27-08800-03	379	27-08882-01	384	27-09086-21	393
26-08562-22	364	27-08684-00	371	27-08760-03	376	27-08800-04	379	27-08882-02	384	27-09086-29	393
26-08562-23	364	27-08684-01	371	27-08762-01	376	27-08800-05	379	27-08886-27	385	27-09090-26	393
26-08562-24	364	27-08684-02	371	27-08762-02	376	27-08800-06	379	27-08890-17	385	27-09094-27	393
26-08566-39	364	27-08686-00	371	27-08762-03	376	27-08800-07	379	27-08894-18	385	27-09098-25	393
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26-08572-11	365	27-08690-00	372	27-08766-03	376	27-08800-10	379	27-08906-25	385	27-09106-21	394
26-08571-13	365	27-08690-01	372	27-08770-01	377	27-08800-11	379	27-08910-25	385	27-09110-28	394
26-08572-16	365	27-08690-02	372	27-08770-02	377	27-08800-12	379	27-08914-28	385	27-09114-19	394
26-08572-21	365	27-08692-00	372	27-08772-01	377	27-08800-13	379	27-08918-24	386	27-09118-20	395
26-08572-26	365	27-08692-01	372	27-08772-02	377	27-08800-14	379	27-08922-26	386	27-09118-25	395
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26-08576-00	365	27-08696-00	372	27-08776-02	377	27-08800-16	379	27-08930-26	386	27-09118-35	395
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26-08588-26	365	27-08698-00	372	27-08780-30	377	27-08800-19	379	27-08936-20	386	27-09124-04	395
		27-08698-01	372	27-08780-35	377	27-08800-00	379	27-08936-24	386	27-09124-06	395
		27-08698-02	372	27-08780-40	377	27-08804-02	379	27-08938-20	386	27-09126-23	395
		27-08700-00	372	27-08782-20	377	27-08804-04	379	27-08938-24	386	27-09128-24	395
		27-08700-01	372	27-08782-25	377	27-08804-06	379	27-08942-06	387	27-09130-23	395
27-08592-01	366	27-08700-02	372	27-08782-30	377	27-08804-08	379	27-08942-08	387	27-09134-23	396
27-08592-02	366	27-08704-00	373	27-08782-35	377	27-08804-10	379	27-08942-10	387	27-09136-21	396
27-08592-03	366	27-08704-01	373	27-08782-40	377	27-08804-12	379	27-08944-06	387	27-09140-28	396
27-08596-01	366	27-08704-02	373	27-08784-20	377	27-08804-14	379	27-08944-08	387	27-09144-24	397
27-08596-02	366	27-08706-00	373	27-08784-25	377	27-08804-16	379	27-08944-10	387	27-09148-23	397
27-08596-03	366	27-08706-01	373	27-08784-30	377	27-08804-18	379	27-08944-12	387	27-09152-00	398
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27-08608-01	366	27-08708-01	373	27-08786-20	377	27-08804-24	379	27-08948-12	387	27-09154-01	398
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27-08612-03	366	27-08712-35	373	27-08790-00	378	27-08810-14	380	27-08960-28	387	27-09158-01	398
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27-08616-03	367	27-08714-25	373	27-08790-03	378	27-08810-20	380	27-08972-21	388	27-09162-00	398
27-08620-01	367	27-08714-30	373	27-08790-04	378	27-08816-15	380	27-08974-21	388	27-09162-01	398
27-08620-02	367	27-08714-35	373	27-08790-05	378	27-08816-19	380	27-08978-32	388	27-09164-00	398
27-08620-03	367	27-08714-40	373	27-08794-00	378			27-08982-20	388	27-09164-01	398
27-08624-01	367							27-08986-25	388	27-09168-01	399

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27-08592-01	366	27-08698-02	372	27-08780-40	377	27-08804-02	379	27-08938-20	386	27-09126-23	395
27-08592-02	366	27-08700-00	372	27-08782-20	377	27-08804-04	379	27-08938-24	386	27-09128-24	395
27-08592-03	366	27-08700-01	372	27-08782-25	377	27-08804-06					



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Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #
27-09168-02	399	27-09222-01	402	27-09230-16	403	27-09240-27	404	29-09426-00	416	29-09546-23	424
27-09168-03	399	27-09222-02	402	27-09230-19	403	27-09240-31	404	29-09426-01	416	29-09550-07	424
27-09168-04	399	27-09222-03	402	27-09230-20	403			29-09426-02	416	29-09550-08	424
27-09168-05	399	27-09222-04	402	27-09230-21	403			29-09426-03	416	29-09550-10	424
27-09168-06	399	27-09222-05	402	27-09230-23	403	<b>28</b>		29-09426-04	416	29-09550-12	424
27-09170-01	399	27-09222-06	402	27-09230-25	403	28-09244-45	405	29-09426-05	416	29-09551-07	424
27-09170-02	399	27-09223-01	402	27-09230-30	403	28-09248-20	405	29-09430-00	416	29-09551-08	424
27-09170-03	399	27-09223-02	402	27-09230-35	403	28-09252-34	405	29-09430-01	416	29-09551-10	424
27-09170-04	399	27-09223-03	402	27-09230-40	403	28-09254-34	405	29-09430-02	416	29-09551-12	424
27-09170-05	399	27-09223-04	402	27-09231-05	403	28-09258-35	405	29-09430-03	416	29-09554-03	424
27-09170-06	399	27-09223-05	402	27-09231-06	403	28-09262-33	405	29-09434-01	417	29-09555-03	424
27-09174-01	399	27-09223-06	402	27-09231-07	403	28-09266-30	405	29-09434-02	417	29-09558-04	424
27-09174-02	399	27-09226-05	403	27-09231-08	403	28-09270-14	405	29-09436-00	417	29-09559-04	424
27-09174-03	399	27-09226-06	403	27-09231-09	403	28-09274-01	406	29-09438-01	418	29-09562-05	424
27-09174-04	399	27-09226-07	403	27-09231-11	403	28-09274-02	406	29-09438-02	418	29-09563-05	424
27-09174-05	399	27-09226-08	403	27-09231-12	403	28-09274-03	406	29-09438-03	418	29-09566-06	425
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27-09192-24	400	27-09227-06	403	27-09232-05	403	28-09306-25	407	29-09454-03	419	29-09587-07	426
27-09196-05	401	27-09227-07	403	27-09232-06	403	28-09310-25	407	29-09258-18	420	29-09591-09	426
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27-09198-09	401	27-09227-14	403	27-09232-12	403	28-09330-36	409	29-09478-25	420	29-09599-22	427
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27-09202-06	401	27-09227-16	403	27-09232-15	403	28-09334-28	409	29-09482-30	420	29-09601-22	427
27-09202-08	401	27-09227-19	403	27-09232-16	403	28-09338-23	409	29-09486-22	421	29-09605-21	428
27-09202-10	401	27-09227-20	403	27-09232-19	403	28-09340-30	409	29-09492-24	421	29-09605-22	428
27-09202-12	401	27-09227-21	403	27-09232-20	403	28-09342-36	409	29-09490-24	421	29-09609-20	428
27-09202-14	401	27-09227-23	403	27-09232-21	403	28-09344-36	409	29-09492-24	421	29-09609-24	428
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27-09210-02	402	27-09228-07	403	27-09232-30	403	28-09350-20	410	29-09504-01	421	29-09618-01	429
27-09210-03	402	27-09228-08	403	27-09232-35	403	28-09352-41	410	29-09504-02	421	29-09618-02	429
27-09210-04	402	27-09228-09	403	27-09232-40	403	28-09354-40	410	29-09508-01	421	29-09618-03	429
27-09210-05	402	27-09228-11	403	27-09233-05	403	28-09358-36	410	29-09508-02	421	29-09621-18	429
27-09210-06	402	27-09228-12	403	27-09233-06	403	28-09362-32	411	29-09512-15	422	29-09624-15	429
27-09211-01	402	27-09228-14	403	27-09233-07	403	28-09362-38	411	29-09516-01	422	29-09624-18	429
27-09211-02	402	27-09228-15	403	27-09233-08	403	28-09366-44	411	29-09516-02	422	29-09625-15	429
27-09211-03	402	27-09228-16	403	27-09233-09	403	28-09370-43	411	29-09516-03	422	29-09625-18	429
27-09211-04	402	27-09228-19	403	27-09233-11	403	28-09374-40	411	29-09516-04	422	29-09629-20	429
27-09211-05	402	27-09228-20	403	27-09233-12	403			29-09520-15	422	29-09633-24	430
27-09211-06	402	27-09228-21	403	27-09233-14	403	<b>29</b>		29-09520-24	422	29-09633-27	430
27-09214-01	402	27-09228-23	403	27-09233-15	403	29-09378-24	412	29-09524-18	423	29-09633-31	430
27-09214-02	402	27-09229-05	403	27-09233-16	403	29-09378-26	412	29-09524-21	423	29-09633-33	430
27-09214-03	402	27-09229-06	403	27-09233-19	403	29-09382-27	412	29-09526-18	423	29-09637-28	431
27-09214-04	402	27-09229-07	403	27-09233-20	403	29-09386-36	412	29-09526-21	423	29-09641-30	431
27-09214-05	402	27-09229-08	403	27-09233-21	403	29-09390-34	412	29-09530-15	423	29-09645-23	432
27-09214-06	402	27-09229-09	403	27-09233-23	403	29-09394-32	412	29-09530-19	423	29-09649-21	432
27-09215-01	402	27-09229-11	403	27-09233-25	403	29-09398-24	412	29-09530-24	423	29-09653-01	433
27-09215-02	402	27-09229-12	403	27-09233-30	403	29-09402-00	413	29-09534-16	423	29-09653-02	433
27-09215-03	402	27-09229-14	403	27-09233-35	403	29-09406-01	413	29-09534-16	423	29-09653-03	433
27-09215-04	402	27-09229-15	403	27-09233-40	403	29-09406-02	413	29-09534-24	423	29-09653-04	433
27-09215-05	402	27-09229-16	403	27-09236-16	404	29-09406-03	413	29-09534-30	423	29-09657-23	434
27-09215-06	402	27-09229-19	403	27-09236-18	404	29-09406-04	413	29-09536-16	423	29-09657-25	434
27-09218-01	402	27-09229-20	403	27-09236-19	404	29-09406-05	413	29-09536-20	423	29-09661-25	434
27-09218-02	402	27-09229-21	403	27-09236-21	404	29-09406-06	413	29-09536-24	423	29-09665-27	435
27-09218-03	402	27-09229-23	403	27-09236-23	404	29-09409-07	413	29-09536-30	423	29-09669-24	435
27-09218-04	402	27-09230-05	403	27-09236-26	404	29-09410-01	414	29-09540-16	423	29-09673-24	435
27-09218-05	402	27-09230-06	403	27-09236-28	404	29-09410-02	414	29-09540-24	423	29-09677-25	436
27-09218-06	402	27-09230-07	403	27-09237-16	404	29-09410-03	414	29-09540-30	423	29-09677-26	436
27-09219-01	402	27-09230-08	403	27-09237-18	404	29-09414-00	415	29-09543-16	423	29-09681-01	436
27-09219-02	402	27-09230-09	403	27-09237-19	404	29-09418-00	415	29-09543-20	423	29-09681-02	436
27-09219-03	402	27-09230-11	403	27-09237-21	404	29-09422-01	415	29-09543-24	423	29-09685-20	437
27-09219-04	402	27-09230-12	403	27-09237-23	404	29-09422-02	415	29-09543-30	423	29-09685-25	437
27-09219-05	402	27-09230-14	403	27-09237-26	404	29-09422-03	415			29-09685-26	437
27-09219-06	402	27-09230-15	403	27-09237-28	404						







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Cat #	Pg #	Cat #	Pg #	Cat #	Pg #
30-10360-02	477	30-10452-67	484	30-10552-10	488
30-10360-03	477	30-10452-78	484	30-10556-10	488
30-10360-04	477	30-10454-00	484	30-10560-07	488
30-10360-05	477	30-10454-01	484	30-10564-09	489
30-10364-13	477	30-10454-02	484	30-10568-09	489
30-10368-13	477	30-10454-03	484	30-10572-10	489
30-10372-01	478	30-10454-12	484	30-10576-10	489
30-10372-02	478	30-10454-23	484	30-10580-11	489
30-10372-03	478	30-10454-34	484	30-10584-11	489
30-10372-04	478	30-10454-45	484	30-10586-11	489
30-10372-05	478	30-10454-56	484	30-10590-01	489
30-10372-06	478	30-10454-67	484	30-10590-02	489
30-10376-01	479	30-10454-78	484	30-10594-10	490
30-10376-02	479	30-10458-05	485	30-10596-10	490
30-10380-01	479	30-10458-07	485	30-10600-09	490
30-10380-02	479	30-10458-10	485	30-10601-09	490
30-10380-03	479	30-10462-12	485	30-10604-10	490
30-10384-01	479	30-10466-12	485	30-10605-10	490
30-10388-01	480	30-10470-13	485	30-10608-10	490
30-10388-02	480	30-10474-12	485	30-10609-10	490
30-10388-03	480	30-10478-12	485	30-10612-10	490
30-10392-01	480	30-10482-01	485	30-10613-10	490
30-10392-02	480	30-10482-02	485	30-10616-10	491
30-10396-01	480	30-10486-01	485	30-10617-10	491
30-10396-02	480	30-10486-02	485	30-10620-10	491
30-10396-03	480	30-10490-12	485	30-10621-10	491
30-10400-01	481	30-10494-13	486	30-10624-09	491
30-10400-02	481	30-10495-13	486	30-10628-05	492
30-10400-03	481	30-10498-01	486	30-10628-07	492
30-10400-04	481	30-10498-02	486	30-10628-10	492
30-10400-05	481	30-10498-03	486	30-10632-09	492
30-10400-06	481	30-10500-13	486	30-10634-09	492
30-10400-07	481	30-10502-10	486	30-10638-07	493
30-10400-08	481	30-10506-10	486	30-10640-07	493
30-10401-06	481	30-10508-10	486	30-10642-10	493
30-10404-00	482	30-10510-10	486	30-10646-08	493
30-10406-00	482	30-10514-10	486	30-10648-08	493
30-10408-01	482	30-10516-10	486	30-10650-08	493
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30-10408-03	482	30-10520-10	486	30-10656-05	494
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30-10438-10	484	30-10528-07	487	30-10668-08	494
30-10442-01	484	30-10527-08	487	30-10669-08	494
30-10446-01	484	30-10528-09	487	30-10672-10	495
30-10446-02	484	30-10528-10	487	30-10673-10	495
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30-10450-03	484	30-10532-02	487	30-10679-10	495
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30-10450-11	484	30-10532-04	487	30-10684-10	495
30-10450-22	484	30-10532-05	487	30-10685-10	495
30-10450-33	484	30-10532-06	487	30-10687-10	495
30-10450-44	484	30-10532-07	487	30-10687-02	503
30-10450-55	484	30-10532-08	487	30-10687-03	503
30-10450-66	484	30-10532-09	487	30-10688-05	503
30-10450-77	484	30-10532-10	487	30-10688-06	503
30-10450-88	484	30-10532-11	487	30-10688-07	503
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30-10452-01	484	30-10532-13	487	30-10688-09	503
30-10452-02	484	30-10532-14	487	30-10688-10	503
30-10452-03	484	30-10532-15	487	30-10688-11	502
30-10452-12	484	30-10536-01	487	30-10860-11	502
30-10452-23	484	30-10536-02	487	30-10864-11	502
30-10452-34	484	30-10540-10	488	30-10866-11	502
30-10452-45	484	30-10544-08	488	30-10870-09	502
30-10452-56	484	30-10548-10	488	30-10872-09	502
				30-10876-10	503
				30-10880-09	503
				30-10882-09	503
				30-10886-01	503
				30-10886-02	503
				30-10886-03	503
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				30-10894-07	504
				30-10898-11	504
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				30-10913-12	504
				30-10914-12	504
				30-10918-13	505
				30-10920-13	505
				30-10924-14	505

## 31

Cat #	Pg #	Cat #	Pg #	Cat #	Pg #
31-10928-00	506	31-11018-60	511	31-10932-30	506
31-10932-30	506	31-11022-00	512	31-10932-40	506
31-10932-40	506	31-11022-01	512	31-10932-50	506
31-10932-50	506	31-11022-40	512	31-10936-33	506
31-10936-33	506	31-11022-45	512	31-10940-20	506
31-10940-20	506	31-11022-50	512	31-10944-21	506
31-10944-21	506	31-11022-55	512	31-10948-00	507
31-10948-00	507	31-11022-60	512	31-10952-00	507
31-10952-00	507	31-11026-00	512	31-10956-00	507
31-10956-00	507	31-11026-01	512	31-10960-00	507
31-10960-00	507	31-11026-45	512	31-10964-00	508
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31-10968-15	508	31-11026-55	512	31-10968-19	508
31-10968-19	508	31-11026-60	512	31-10972-14	508
31-10972-14	508	31-11030-16	513	31-10976-45	509
31-10976-45	509	31-11032-27	513	31-10976-50	509
31-10976-50	509	31-11036-15	513	31-10976-55	509
31-10976-55	509	31-11040-16	513	31-10976-60	509
31-10978-40	509	31-11044-00	514	31-10978-40	509
31-10978-45	509	31-11044-01	514	31-10978-45	509
31-10978-50	509	31-11044-50	514	31-10978-50	509
31-10978-55	509	31-11044-60	514	31-10978-55	509
31-10978-60	509	31-11046-00	514	31-10978-60	509
31-10980-40	509	31-11046-01	514	31-10980-40	509
31-10980-45	509	31-11046-50	514	31-10980-50	509
31-10980-50	509	31-11046-60	514	31-10980-55	509
31-10980-55	509	31-11046-70	514	31-10980-60	509
31-10980-60	509	31-11050-01	515	31-10982-50	509
31-10982-50	509	31-11050-02	515	31-10982-55	509
31-10982-55	509	31-11050-03	515	31-10982-60	509
31-10982-60	509	31-11052-01	515	31-10984-35	509
31-10984-35	509	31-11052-02	515	31-10984-40	509
31-10984-40	509	31-11052-03	515	31-10984-45	509
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31-10984-55	509	31-11054-03	515	31-10984-60	509
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31-11060-00	516	31-11060-00	516	31-10986-40	509
31-11060-01	516	31-11060-01	516	31-10986-45	509
31-11060-21	516	31-11060-21	516	31-10986-50	509
31-11060-22	516	31-11060-22	516	31-10986-55	509
31-11060-23	516	31-11060-23	516	31-10986-60	509
31-11062-00	516	31-11062-00	516	31-10986-65	509
31-11062-01	516	31-11062-01	516	31-10986-70	509
31-11064-00	516	31-11064-00	516	31-10988-35	509
31-11064-01	516	31-11064-01	516	31-10988-40	509
31-11066-00	516	31-11066-00	516	31-10988-45	509
31-11066-01	516	31-11066-01	516	31-10988-50	509
31-11070-24	517	31-11070-24	517	31-10988-55	509
31-11074-25	517	31-11074-25	517	31-10988-60	509
31-11078-15	517	31-11078-15	517	31-10988-65	509
31-11080-15	517	31-11080-15	517	31-10988-70	509
31-11082-15	517	31-11082-15	517	31-10990-50	509
31-11086-16	517	31-11086-16	517	31-10992-70	509
31-11090-01	517	31-11090-01	517	31-10994-00	510
31-11090-02	517	31-11090-02	517	31-10994-01	510
31-11090-03	517	31-11090-03	517	31-10998-00	510
31-11090-04	517	31-11090-04	517	31-10998-01	510
31-11090-05	517	31-11090-05	517	31-11002-00	510
31-11094-21					



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Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #	Cat #	Pg #
31-11136-20	520	31-11244-03	526	31-11298-03	529	31-11358-03	533	32-11426-03	539	32-11478-02	547
31-11136-28	520	31-11244-05	526	31-11298-05	529	31-11360-01	533	32-11428-01	539	32-11478-03	547
31-11140-01	520	31-11246-03	526	31-11300-03	529	31-11360-02	533	32-11428-02	539	32-11478-04	547
31-11140-02	520	31-11246-05	526	31-11300-05	529	31-11360-03	533	32-11428-03	539	32-11478-05	547
31-11140-03	520	31-11248-03	526	31-11302-03	529	31-11362-01	533	32-11428-04	539	32-11482-01	548
31-11140-04	520	31-11248-05	526	31-11302-05	529	31-11362-02	533	32-11430-01	540	32-11482-02	548
31-11142-01	520	31-11250-03	526	31-11304-03	529	31-11362-03	533	32-11430-02	540	32-11482-03	548
31-11142-02	520	31-11250-05	526	31-11304-05	529	31-11364-01	533	32-11430-03	540	32-11482-04	548
31-11142-03	520	31-11252-00	526	31-11304-03	529	31-11364-02	533	32-11432-00	541	32-11482-05	548
31-11142-04	520	31-11252-01	526	31-11304-05	529	31-11364-03	533	32-11432-01	541	32-11482-06	548
31-11144-08	520	31-11252-02	526	31-11306-03	529	31-11366-01	533	32-11432-02	541	32-11482-07	548
31-11144-11	520	31-11252-03	526	31-11306-05	529	31-11366-02	533	32-11432-03	541	32-11482-08	548
31-11144-14	520	31-11252-04	526	31-11310-01	530	31-11366-03	533	32-11432-04	541	32-11484-01	548
31-11144-17	520	31-11252-05	526	31-11310-02	530	31-11368-01	533	32-11434-01	541	32-11484-02	548
31-11144-20	520	31-11254-00	526	31-11310-03	530	31-11368-02	533	32-11434-02	541	32-11484-03	548
31-11144-25	520	31-11254-01	526	31-11312-01	530	31-11368-03	533	32-11434-03	541	32-11484-04	548
31-11148-08	520	31-11254-02	526	31-11312-02	530	31-11370-01	533	32-11434-04	541	32-11484-05	548
31-11148-11	520	31-11254-03	526	31-11312-03	530	31-11370-02	533	32-11348-01	542	32-11484-06	548
31-11148-14	520	31-11254-04	526	31-11314-01	530	31-11370-03	533	32-11438-02	542	32-11484-07	548
31-11148-17	520	31-11254-05	526	31-11314-02	530	31-11372-01	533	32-11438-03	542	32-11484-08	548
31-11152-09	521	31-11256-00	526	31-11314-03	530	31-11372-02	533	32-11438-04	542	32-11488-01	549
31-11152-13	521	31-11256-01	526	31-11316-01	530	31-11372-03	533	32-11438-05	542	32-11488-02	549
31-11152-18	521	31-11256-02	526	31-11316-02	530	31-11374-01	533	32-11440-01	542	32-11488-03	549
31-11152-22	521	31-11256-03	526	31-11316-03	530	31-11374-02	533	32-11440-02	542	32-11488-04	549
31-11156-12	521	31-11256-04	526	31-11318-01	530	31-11374-03	533	32-11440-03	542	32-11488-05	549
31-11156-17	521	31-11256-05	526	31-11318-02	530	31-11376-01	533	32-11440-04	542	32-11488-06	549
31-11160-14	521	31-11260-03	527	31-11318-03	530	31-11376-02	533	32-11444-01	543	32-11488-07	549
31-11160-17	521	31-11260-05	527	31-11320-01	530	31-11376-03	533	32-11444-02	543	32-11488-08	549
31-11160-20	521	31-11262-03	527	31-11320-02	530	31-11378-02	534	32-11448-01	543	32-11488-09	549
31-11164-01	521	31-11262-05	527	31-11320-03	530	31-11378-03	534	32-11448-02	543	32-11488-10	549
31-11164-02	521	31-11264-03	527	31-11322-01	530	31-11378-04	534	32-11448-03	543	32-11488-11	549
31-11164-03	521	31-11264-05	527	31-11322-02	530	31-11382-16	534	32-11448-04	543	32-11488-12	549
31-11168-21	521	31-11266-03	527	31-11322-03	530	31-11386-35	535	32-11450-01	543	32-11488-13	549
31-11172-03	522	31-11266-05	527	31-11324-01	530	31-11390-65	535	32-11450-02	543	32-11488-14	549
31-11172-05	522	31-11268-03	527	31-11324-02	530	31-11392-90	535	32-11450-03	543	32-11492-01	550
31-11172-07	522	31-11268-05	527	31-11324-03	530	31-11396-01	536	32-11450-04	543	32-11492-02	550
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