



**CHANDLER**

31008-18 -A-17mm -B-5mm  
 31008-20 -A-22mm -B-13mm  
 31008-23 -A-29mm -B-17mm  
 31008-25 -A-30mm -B-19mm



31009-16



31010-16

**MINI-HOHMANN**

31009-16  
 31010-16



**CREGO**  
 31011-20



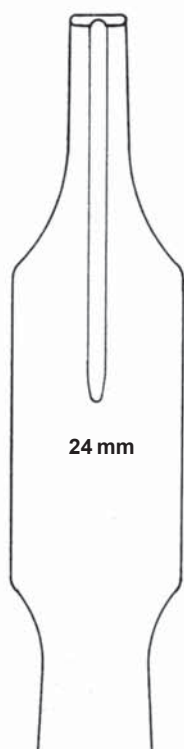
**CREGO**  
 31012-20



**CREGO**  
 31013-20

**MEYERDING**

31 cm  
 31014-00 -A-30mm -B-19mm  
 31014-01 -A-43mm -B-36mm



1/1

24 mm

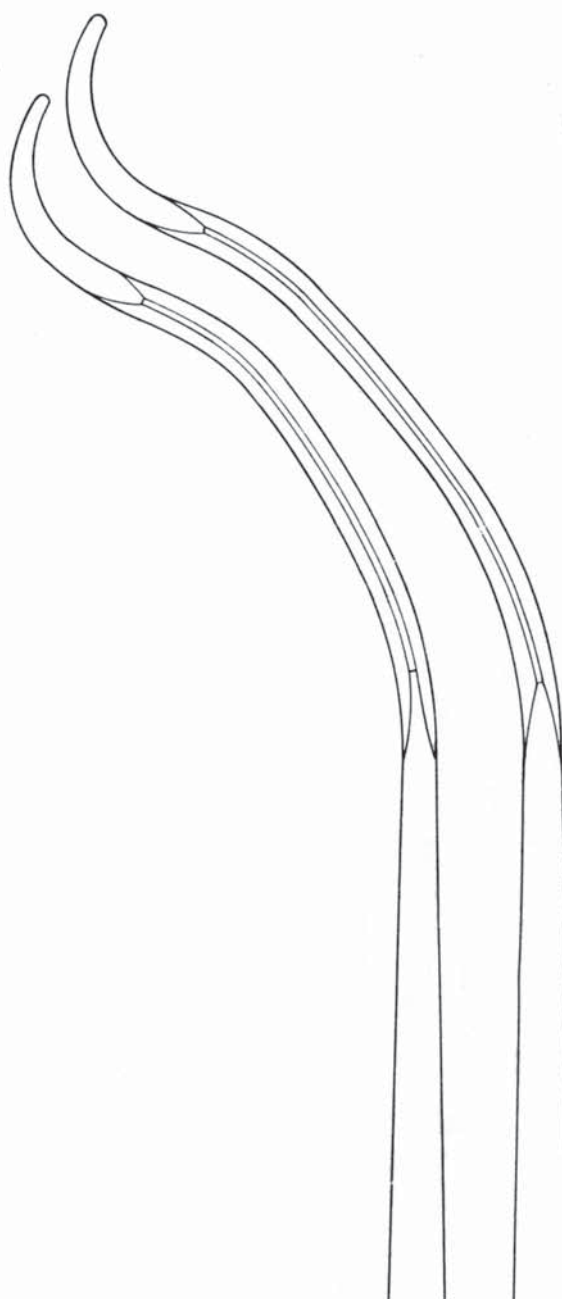


1/2

**LANGE-HOHMANN**  
31015-25

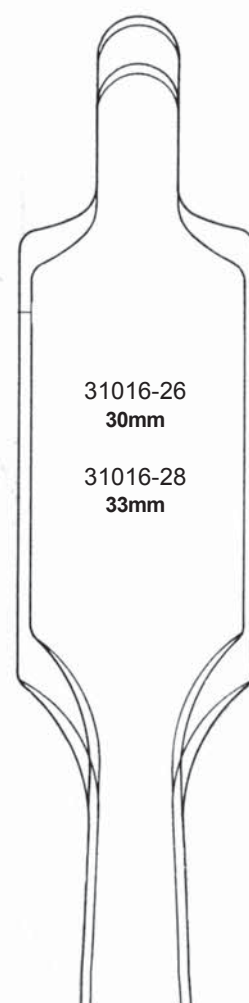


1/1



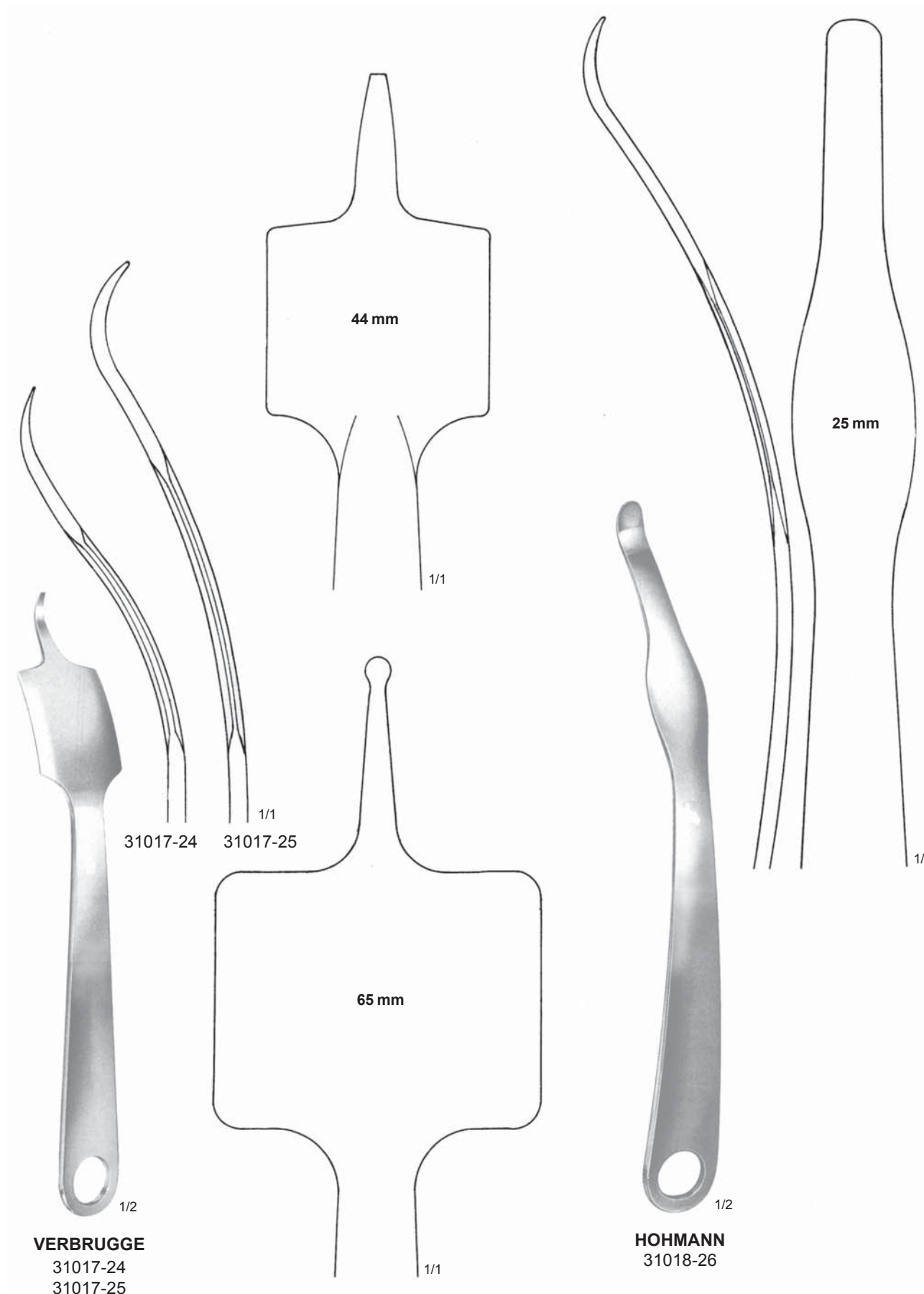
1/1

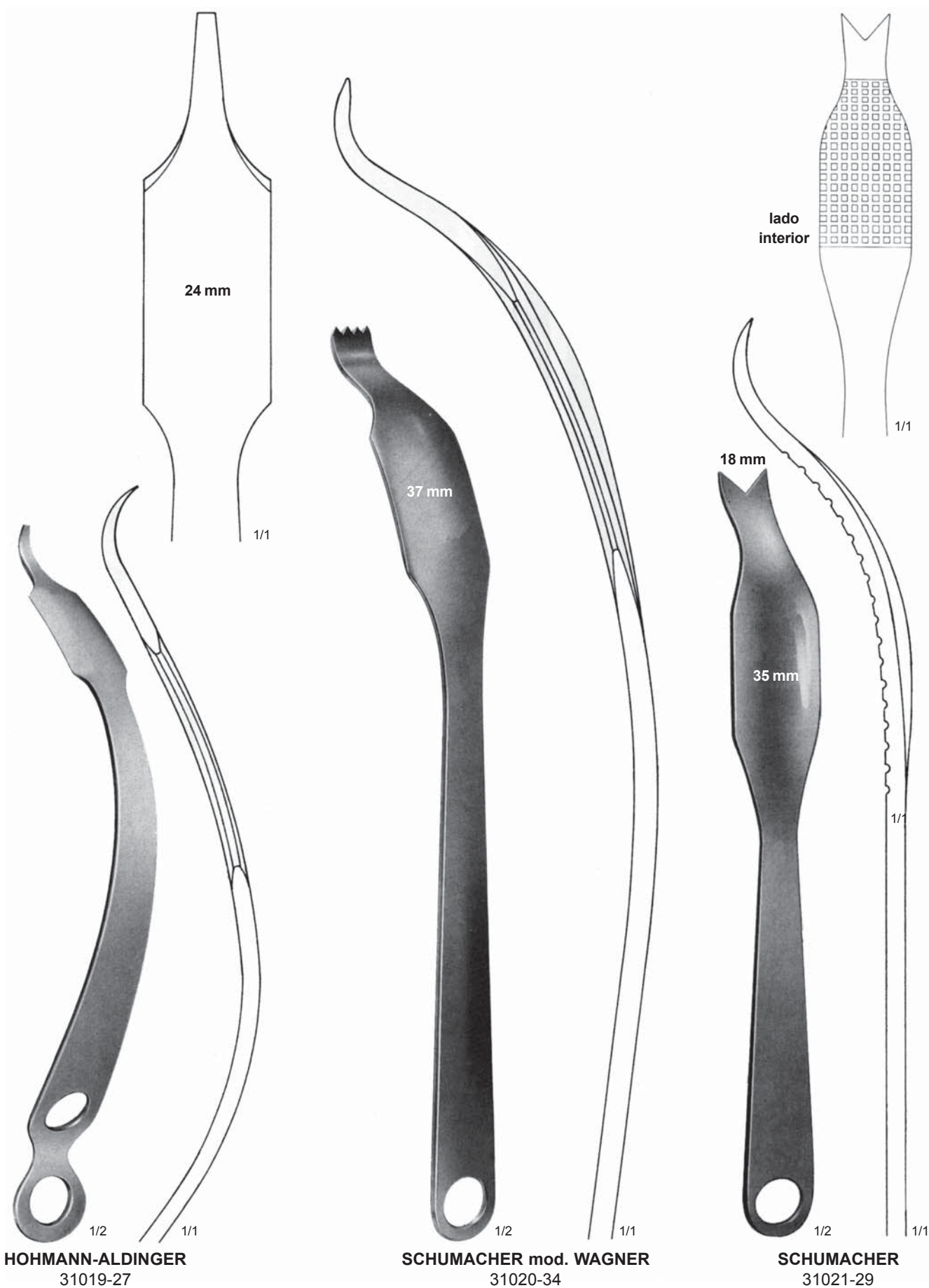
31016-26  
31016-28

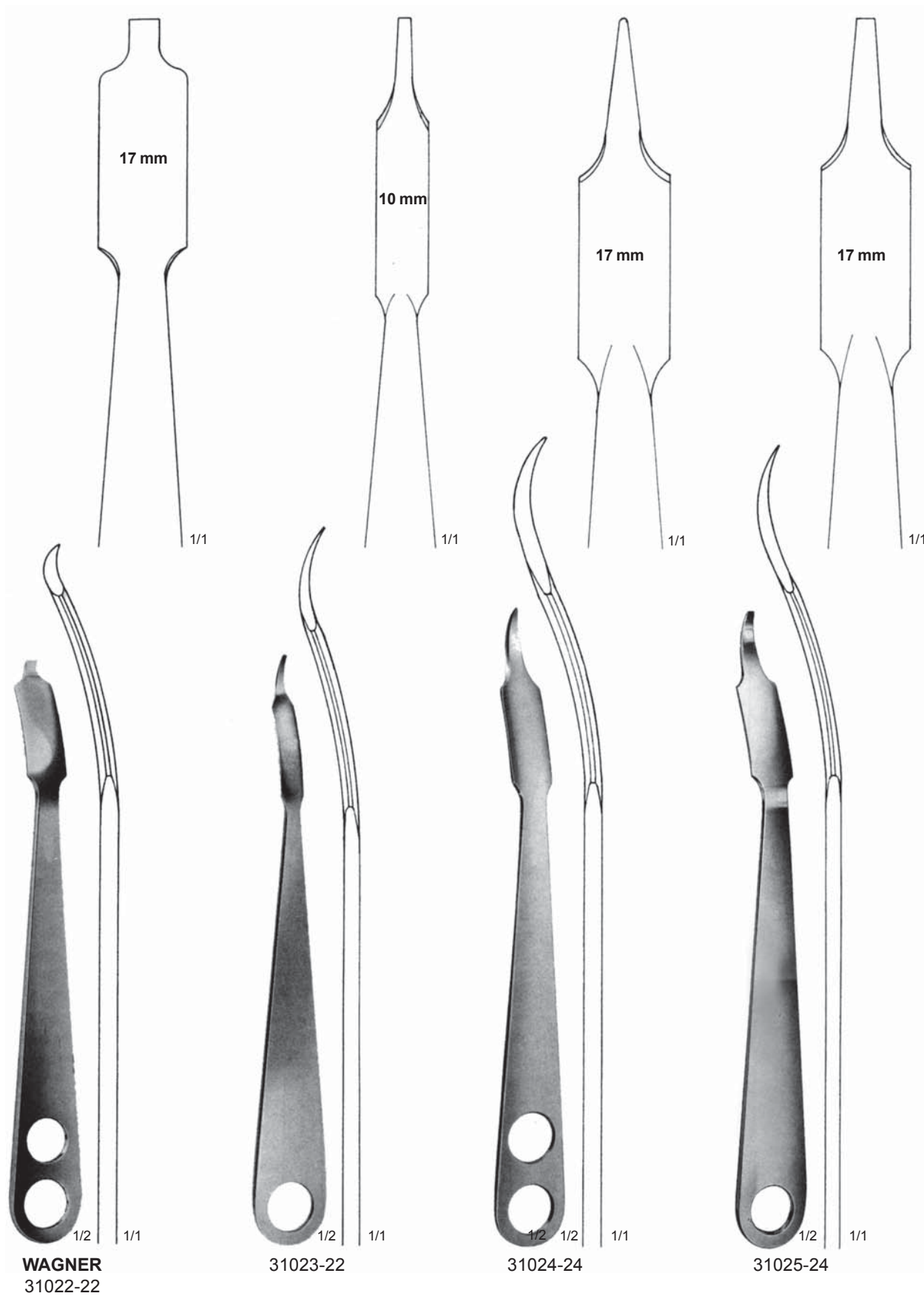


31016-26  
30mm

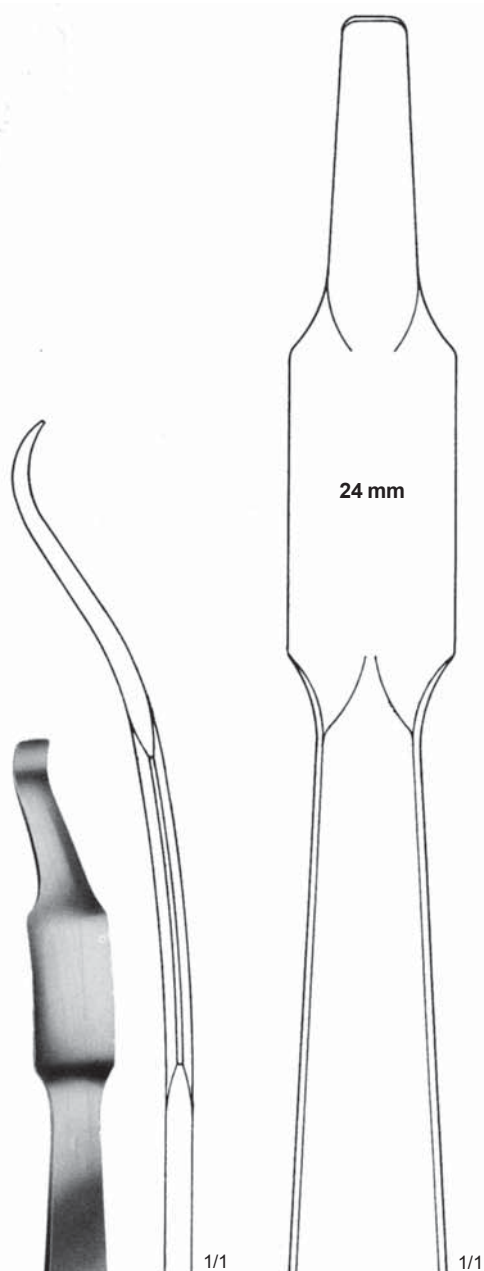
31016-28  
33mm



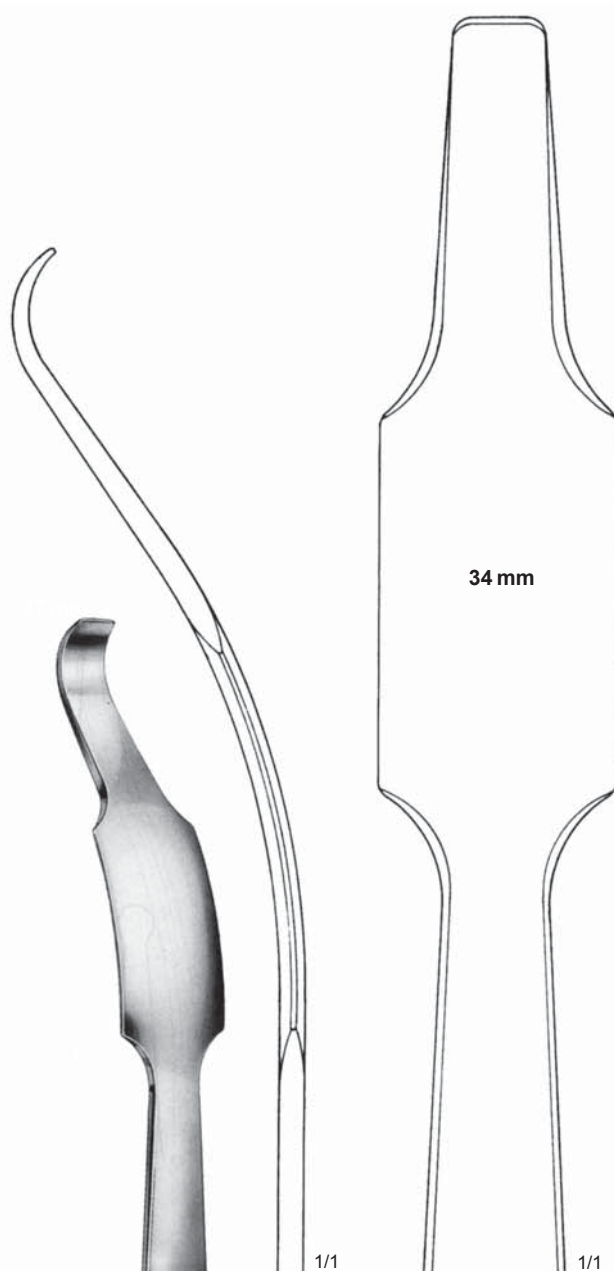








**HOHMANN**  
31026-26



**HOHMANN**  
31027-28



**BENNET**  
31028-44  
31028-64



**LANE**  
31029-26



Agudo

31030-22  
31031-22  
31032-20



Rombo

31033-22  
31034-22



31030-22  
31036-23



31031-22  
31037-23



31033-22



31034-22



31035-23



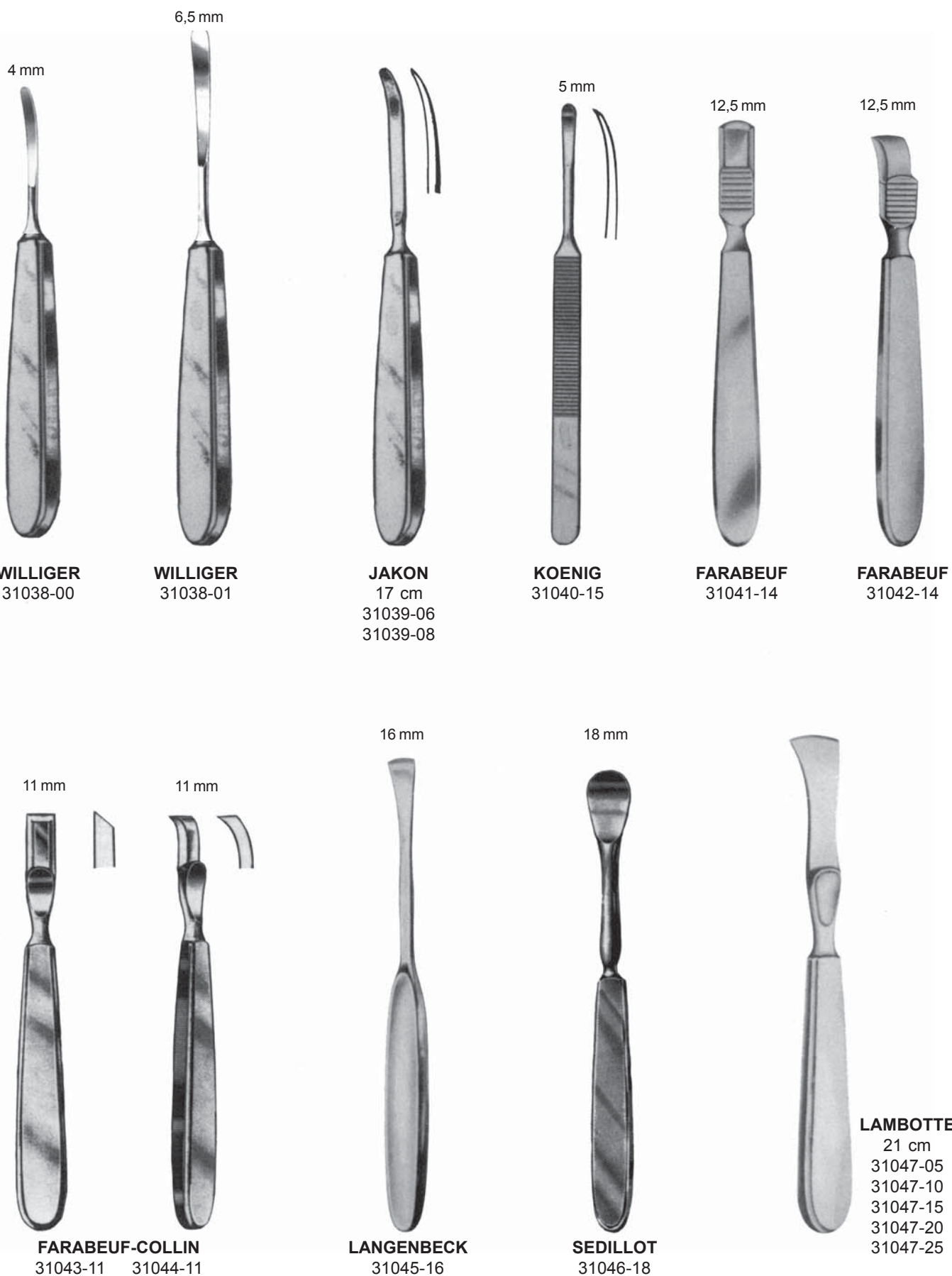
31032-20



Agudo

31035-23  
31036-23  
31037-23





14 mm



31284-14

14 mm



31285-14

30 mm



31286-30

13 mm



31287-13

6 mm



31288-06

6 mm



31289-06

3 mm



31290-03

6 mm



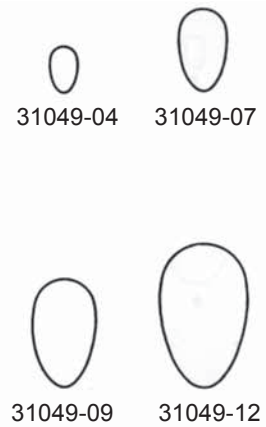
31291-06



**BRISTOW**  
22 cm  
31048-09



**WIBERG**  
17,5 cm



31050-24



31051-28



**PUTTI**  
31052-27



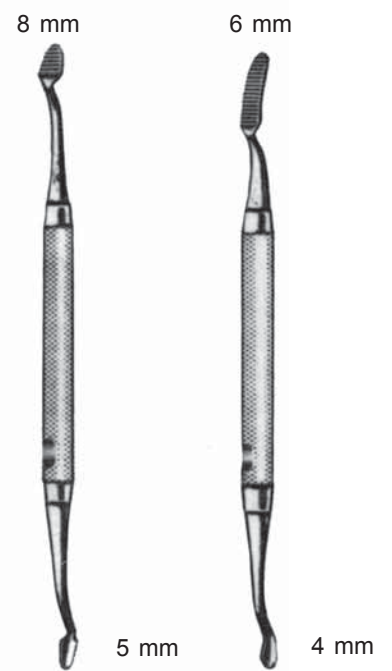
**PUTTI**  
31053-30



**MILLER**  
31054-18



**MILLER**  
31055-18





**MARTINI**  
14 cm  
31056-00



**WILLIGER**  
14 cm  
31056-01



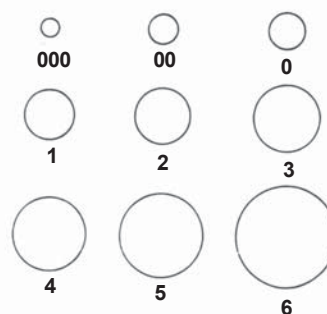
**VOLKMANN**  
31057-13  
31057-14  
31057-17



**VOLKMANN**  
31058-13  
31058-16  
31058-20



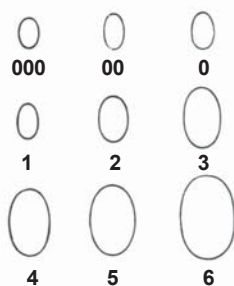
**BRUNS**



31059-17 - 000  
31060-17 - 00  
3106117 - 0  
31062-17 - 1  
31063-17 - 2  
31064-17 - 3  
31065-17 - 4  
31066-17 - 5  
31067-17 - 6



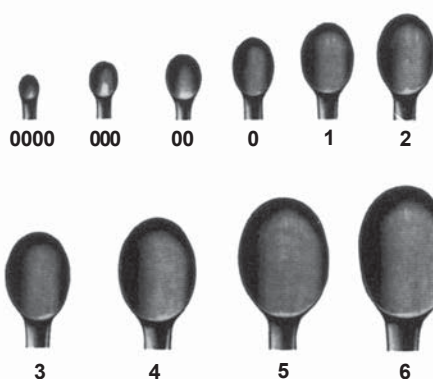
**BRUNS**  
17 cm



31068-17 - 000  
31069-17 - 00  
31070-17 - 0  
31071-17 - 1  
31072-17 - 2  
31073-17 - 3  
31074-17 - 4  
31075-17 - 5  
31076-17 - 6



**VOLKMANN**  
17 cm



31077-17 - 0000  
31078-17 - 000  
31079-17 - 00  
31080-17 - 0  
31081-17 - 1  
31082-17 - 2  
31083-17 - 3  
31084-17 - 4  
31085-17 - 5  
31086-17 - 6



**CURETA**  
9 mm  
31280-28



**CURETA**  
15 mm  
31281-23



**CURETA**  
27 mm  
31282-24



**CURETA**  
26,5 mm  
31283-27



**RUSKIN**  
31275-19



**RUSKIN**  
31276-19



**RUSKIN-LISTON**  
31088-19



**RUSKIN-LISTON**  
31089-19



**LISTON**  
31090-27



**LISTON**  
31091-27



**LISTON**  
31092-26



**LISTON**  
31093-26

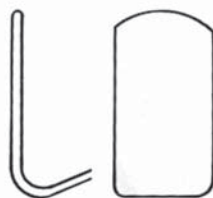




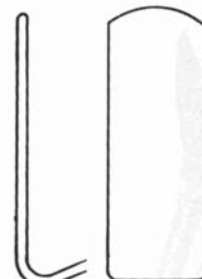
**MARTIN**  
31094-20  
serrilhada



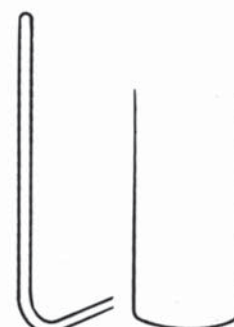
**BLOUNT**  
31095-18



31096-00



31096-01



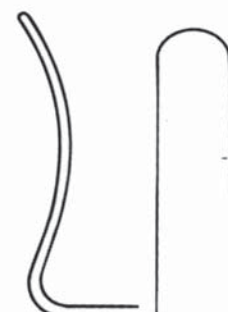
31096-02



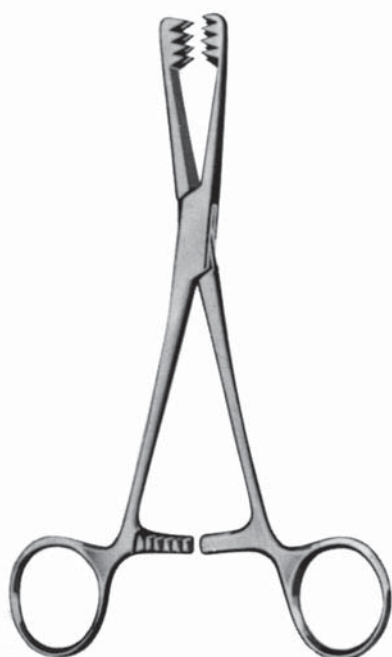
**SMILLIE**  
14,5 cm



31096-03



31096-04



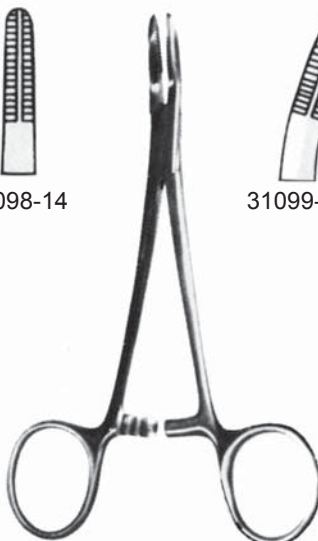
**MARTIN**  
31097-17



31098-14



31099-14

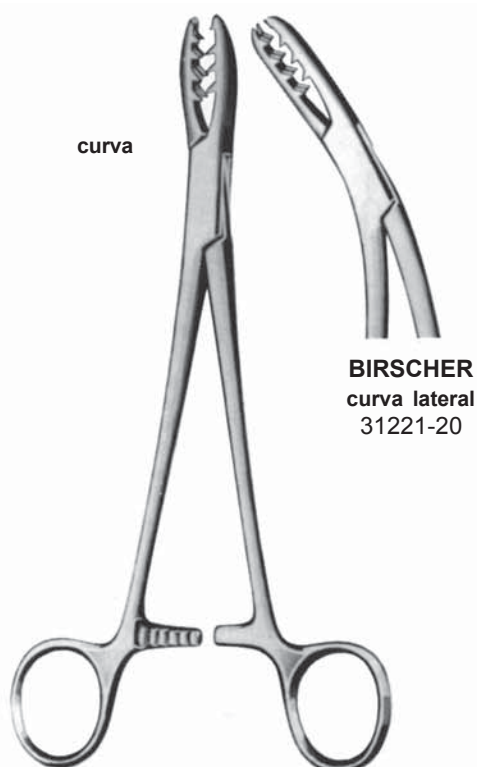


**SLOCUM**



**MARTIN MOD.**  
31100-18  
31100-20

curva



**BIRSCHER**  
31220-20

**BIRSCHER**  
curva lateral  
31221-20



**WALTON**  
31222-19



31223-22

31224-22

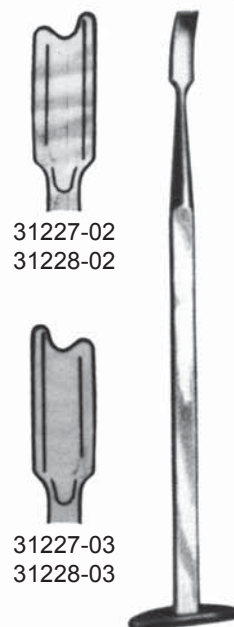
**NEFF**  
31223-22  
31224-22



**CANADIAN Mod.**  
direita 31225-20  
esquerda 31226-20



**SMILLIE**  
17 cm  
recto  
31227-00  
31227-01  
31227-02  
31227-03



**SMILLIE**  
17 cm  
curvo  
31228-00  
31228-01  
31228-02  
31228-03



**LISTON**  
31101-14  
31101-17  
31101-19  
31101-22



**LISTON**  
31102-14  
31102-17  
31102-19  
31102-22



angulada  
lateral

**LISTON**  
31103-14  
31103-17  
31103-19  
31103-22



**LITTAUER-LISTON**  
31104-15



**DEAN-CLEVELAND**  
31105-19



**MARKWALDER**  
31106-20



31107-16



31108-14



31109-17

LISTON-BOEHLER  
31110-15LISTON-BOEHLER  
31111-15McINDOE  
31112-18



**BOEHLER**

18 cm

31113-03 3x15mm 31114-03  
31113-04 4x15mm 31114-04  
recta curva



**KLEINERT-KUTZ**



31115-02  
2mm



31115-03  
3mm



31115-04  
4mm



**MAYFIELD**

31116-19



**BEYER**

18 cm

3x15 mm 31117-03  
4x15 mm 31117-04



**ZAUFGAL-JANSEN**

31118-18



**MARQUARDT**

31119-20



**RUSKIN**

16 cm



31120-16  
2mm



31121-16  
2mm



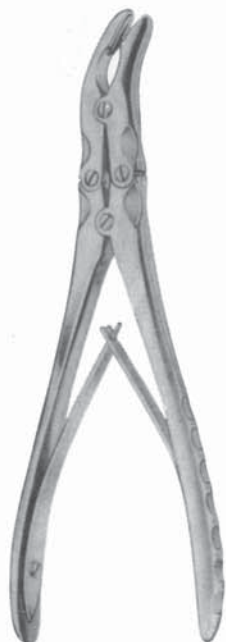
31122-16  
2mm



**RUSKIN**

4x15 mm 31123-18 18cm 4x15 mm 31124-18  
6x15 mm 31123-20 20cm 6x15 mm 31124-20  
recta curva





**RUSKIN**  
31125-18



**RUSKIN-STILLE**  
31126-23



**ROETTGEN-RUSKIN**  
31127-24



**STILLE-LUER**  
31128-23



**LESKELL**  
23 cm  
31129-03 8x16mm  
31129-08 3x16mm



**STILLE-LESKELL**  
23 cm  
31130-03 8x16mm  
31130-08 3x16mm



**LUER-STILLE**  
31131-22  
31131-27



**LUER-STILLE**  
31132-22  
31132-27





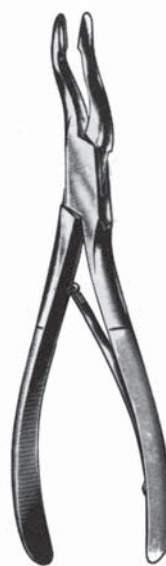
**HAKANSON**  
31133-16



**BANE-HARTMANN**  
31134-18



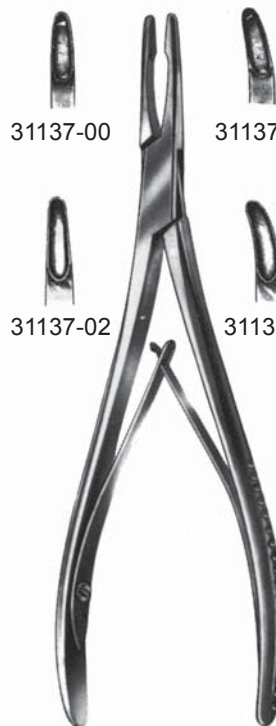
**MEAD**  
31135-17



**JANSEN**  
18 cm



31136-00 31136-01 31136-02



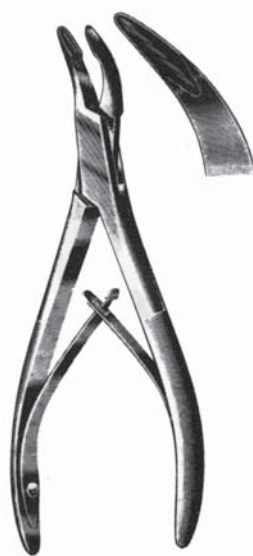
31137-00

31137-01

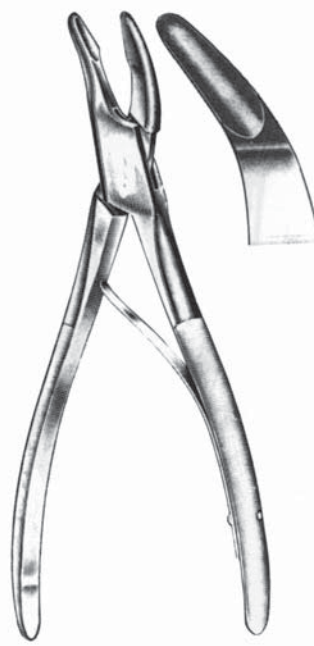
31137-02

31137-03

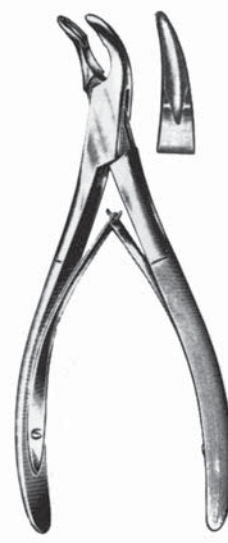
**LEMPERT**  
31137-00 16 cm  
31137-01 16 cm  
31137-02 19 cm  
31137-03 19 cm



**CICHERELLI**  
31138-17



**OLIVECRONA**  
31139-20



**LUER-FRIEDMANN**  
31140-14



**LUER**  
31141-15



**LUER**  
31142-15



**LUER**



**SHEARER**  
31145-14  
31145-16  
31145-18



**BEYER**  
31146-18



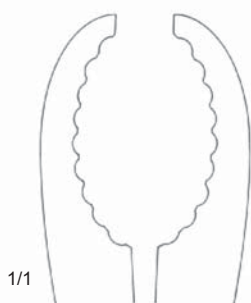
**HARTMANN**



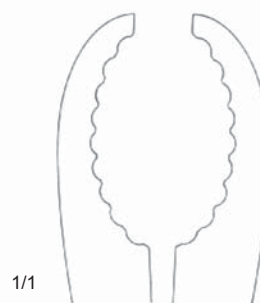
**ADSON**  
31150-20



**BACON**  
31151-20



31153-23  
31154-23  
23 cm / 9"



31153-25  
31154-25  
25 cm / 10"



31153-28  
31154-28  
28 cm / 11"

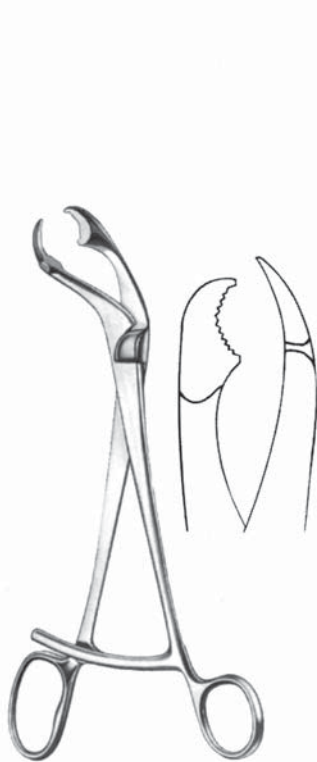


**ULRICH**  
31153-23 a 31153-28

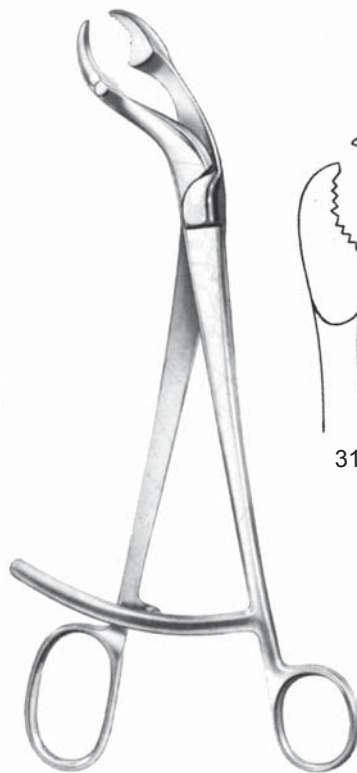
**ULRICH**  
31154-23 a 31154-28

31152-15  
15 cm / 6"31152-19  
19 cm / 7 1/2"31152-24  
24 cm / 9 1/2"31152-26  
26 cm / 10 1/4"31152-28  
28 cm / 11"

31152-15 a 31152-28



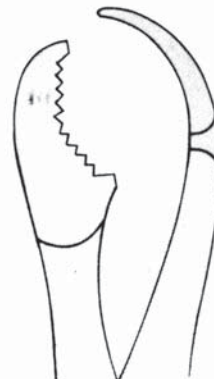
**VERBRUGGE**  
31159-18



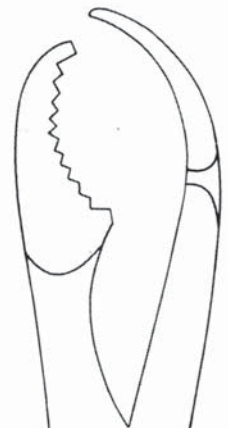
**VERBRUGGE**  
31160-25  
31160-26  
31160-27



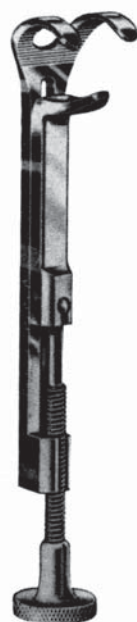
31160-25



31160-26



31160-27



**LOWMAN**  
31161-12  
31161-19  
31161-20  
31161-22



**LOWMAN-HOGLUND**  
31162-12  
31162-18  
31162-20





**FARABEU-F-LAMBOTTE**  
31155-26



**FARABEU**  
31556-26



**LAMBOTTE**  
31156-22  
31156-25  
31156-30



**LANE-KERN**  
31157-15  
31157-18  
31157-21  
31157-33  
31157-40



**LANE-KERN**  
31158-15  
31158-18  
31158-21  
31158-33  
31158-40



31163-20

31164-20



**VAN BUREN**  
31165-23



31166-13



31167-14



31168-19

31169-19

**DINGMANN**



31170-14  
abertura máx.: 10mm  
31171-14  
abertura máx.: 15mm

**LAHEY**  
31170-14  
31171-14



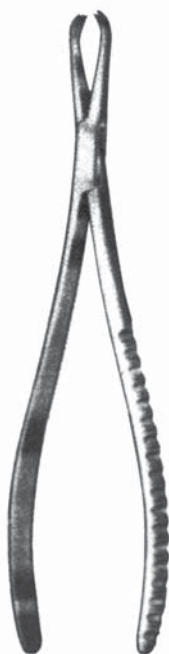
**SEMB**  
31172-20



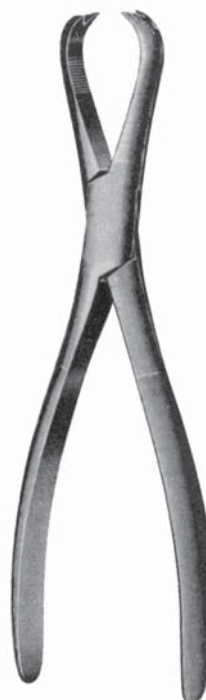
**SEMB**  
31173-20



31174-18  
31174-22



31175-20



LANGENBECK  
31176-22



FERGUNSON  
31177-21



BARDELEBEN  
31178-23



LEWIN  
31179-18



31180-15



**31293-31**

|                |                 |
|----------------|-----------------|
| <b>largura</b> | <b>31294-32</b> |
| <b>12mm</b>    | <b>31295-32</b> |
| <b>20mm</b>    | <b>31296-32</b> |
| <b>25mm</b>    | <b>31297-32</b> |
| <b>30mm</b>    |                 |

3 mm



31298-31

16 mm

recto  
31298-31  
curvo  
31299-3112 mm  
20 mm31300-26  
31301-32





31302-22



31303-23  
31304-23

larg.  
5,5  
9



31305-25  
31307-25  
31309-25

larg.  
5  
10  
15



31306-25  
31308-25  
31310-25

larg.  
5  
10  
15



31311-22  
31312-22  
31313-22  
31314-22  
31315-22  
31316-22

larg.  
7  
10  
15  
20  
25  
30



31317-22  
31318-22  
31319-22  
31320-22  
31321-22  
31322-22

larg.  
7  
10  
15  
20  
25  
30



31323-32 larg.  
16

31324-32 larg.  
25

recta larg.  
31325-27 5  
31327-27 10  
31329-27 15

curva larg.  
31326-27 5  
31328-27 10  
31330-27 15



**31331-33**  
**9mm**



**31332-00**  
**9mm**



**31333-00**  
**9mm**



**31334-28**  
**115 mm**



**31335-00**  
**9 mm**



**31336-00**  
**8 mm**



**MINI-LEXER**

18 cm

31181-04  
31181-06  
31181-08  
31181-10  
31181-12

**MINI-LEXER**

18 cm

31182-04  
31182-06  
31182-08  
31182-10  
31182-12

**LEXER**

22 cm

31183-07  
31183-10  
31183-15  
31183-20  
31183-25  
31183-30

**LEXER**

22 cm

31184-07  
31184-10  
31184-15  
31184-20  
31184-25  
31184-30

**LEXER**

31185-07  
31185-10



**HIBBS**  
24 cm  
31186-06  
31186-13  
31186-19  
31186-25  
31186-32



**HIBBS**  
24 cm  
31187-06  
31187-13  
31187-19  
31187-25  
31187-32



**HIBBS**  
24 cm  
31188-06  
31188-13  
31188-19  
31188-25  
31188-32



**HIBBS**  
24 cm  
31189-06  
31189-13  
31189-19  
31189-25  
31189-32



**SMITH-PETERSON**  
20 cm  
31190-06  
31190-10  
31190-13  
31191-16  
31190-19  
31190-25



**SMITH-PETERSON**  
20 cm  
31191-06  
31191-10  
31191-13  
31191-16  
31191-19  
31191-25



**SMITH-PETERSON**  
20 cm  
31192-06  
31192-10  
31192-13  
31192-19  
31192-25  
31192-32



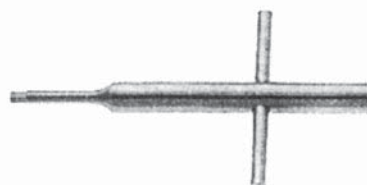
**SMITH-PETERSON**  
20 cm  
31193-06  
31193-10  
31193-13  
31193-19  
31193-25  
31193-32



31194-00



31194-05  
31194-10  
31194-16  
31194-25



USA

14 cm  
31195-06  
31195-12  
31195-18



USA

14 cm  
31196-06  
31196-12  
31196-18



USA

14 cm  
31197-06  
31197-12  
31197-18



14 cm  
31198-04  
31198-06  
31198-08  
31198-10  
31198-12



14 cm  
31199-04  
31199-06  
31199-08  
31199-10  
31199-12



14 cm  
31200-04  
31200-06  
31200-08  
31200-10  
31200-12



**c/ 12,5 cm**

31201-04  
31201-06  
31201-08  
31201-10  
31201-12  
31201-15

**c/ 16 cm**

31202-04  
31202-06  
31202-08  
31202-10  
31202-12  
31202-15  
31202-20

**LAMBOTTE**



**LAMBOTTE**  
24 cm

**recto**

31203-06  
31203-08  
31203-10  
31203-12  
31203-14  
31203-16  
31203-18  
31203-20  
31203-25  
31203-30  
31203-38  
31203-44  
31203-50

**curvo**

31204-06  
31204-08  
31204-10  
31204-12  
31204-14  
31204-16  
31204-18  
31204-20  
31204-25  
31204-30  
31204-38  
31204-44  
31204-50



**STILLE**  
20 cm

31205-06  
31205-08  
31205-10  
31205-12  
31205-15  
31205-20  
31205-25  
31205-30



**STILLE**  
20 cm

31206-06  
31206-08  
31206-10  
31206-12  
31206-15  
31206-20  
31206-25  
31206-30



**STILLE**  
20 cm

31207-06  
31207-08  
31207-10  
31207-12  
31207-15  
31207-20  
31207-25  
31207-30



**c/ 14 cm**

31208-03  
31208-04  
31208-05  
31208-06

**c/ 17 cm**

31209-03  
31209-04  
31209-05  
31209-06  
31209-09

**PARTSCH**



**c/ 14 cm**

31210-03  
31210-04  
31210-05  
31210-06

**c/ 17 cm**

31211-03  
31211-04  
31211-05  
31211-06

**PARTSCH**



**ALEXANDER**  
17 cm

31212-04  
31212-06  
31212-08  
31212-10  
31212-12  
31212-14



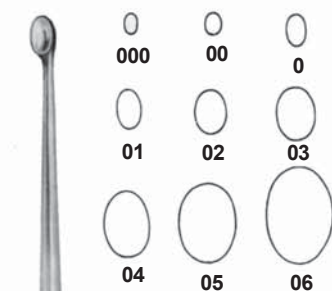
**ALEXANDER**  
17 cm

31213-04  
31213-06  
31213-08  
31213-10  
31213-12  
31213-14



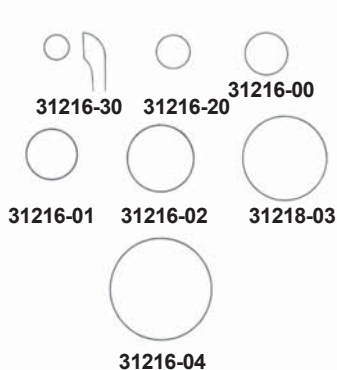
**ALEXANDER**  
17 cm

31214-04  
31214-06  
31214-08  
31214-10  
31214-12  
31214-14



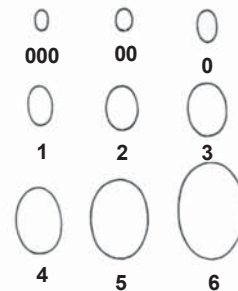
**BRUNS**  
23 cm

31215-30 - 000  
31215-20 - 00  
31215-10 - 0  
31215-01 - 1  
31215-02 - 2  
31215-03 - 3  
31215-04 - 4  
31215-05 - 5  
31215-06 - 6



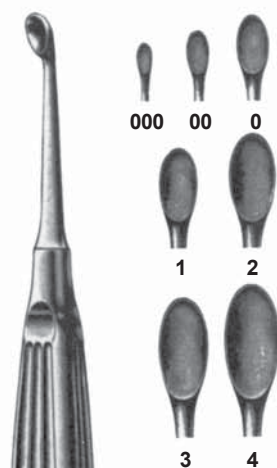
**BRUNS**  
23 cm

31216-30 - 000  
31216-20 - 00  
31216-10 - 0  
31216-01 - 1  
31216-02 - 2  
31216-03 - 3  
31216-04 - 4  
31216-05 - 5  
31216-06 - 6



**BRUNS**  
23 cm

31217-30 - 000  
31217-20 - 00  
31217-10 - 0  
31217-01 - 1  
31217-02 - 2  
31217-03 - 3  
31217-04 - 4  
31217-05 - 5  
31217-06 - 6

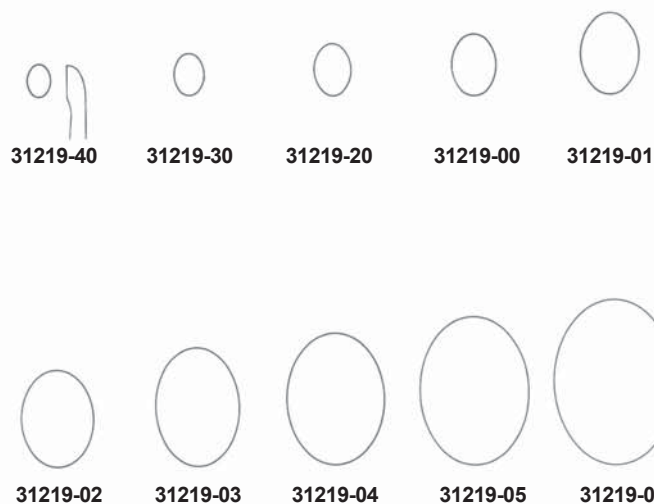


**SCHEDE**  
17 cm

31218-30 - 000  
31218-20 - 00  
31218-10 - 0  
31218-01 - 1  
31218-02 - 2  
31218-03 - 3  
31218-04 - 4



**VOLKMANN**  
23 cm



31219-30 - 000  
31219-20 - 00  
31219-10 - 0  
31219-01 - 1  
31219-02 - 2  
31219-03 - 3  
31219-04 - 4  
31219-05 - 5



31229-14



31230-15



31231-00

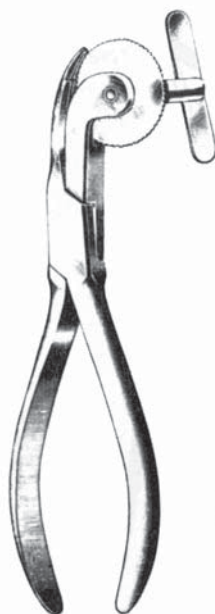


31231-01 31231-01 31231-01



31232-00

31232-01  
lamina para 31232-00



31233-00

31233-01  
lamina para 31233-00



31234-00 pequena 25x21 cm  
31234-01 média 30x30 cm  
31234-02 grande 39x32 cm



**BUNNEL**  
14 cm  
31235-02  
31235-03  
31235-04  
31235-05  
31235-06  
31235-07



**LARSEN**  
10 cm  
31236-02  
31236-03  
31236-04  
31236-05



**BUNNEL**  
31237-23      31238-28  
sondas para tendões



31239-12



**JACKSON**  
31240-15



**CARROL**  
31241-11



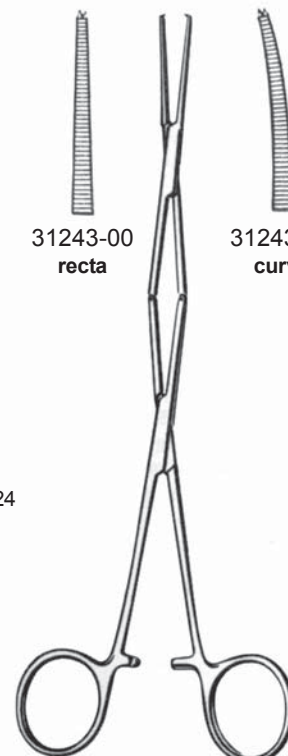
**BRAND**  
31242-15  
31242-19  
31242-24



31243-00  
recta

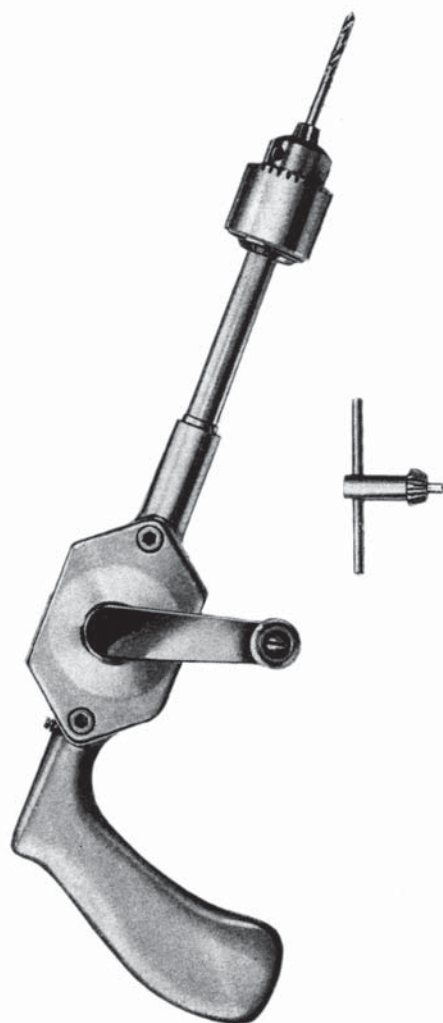


31243-01  
curva

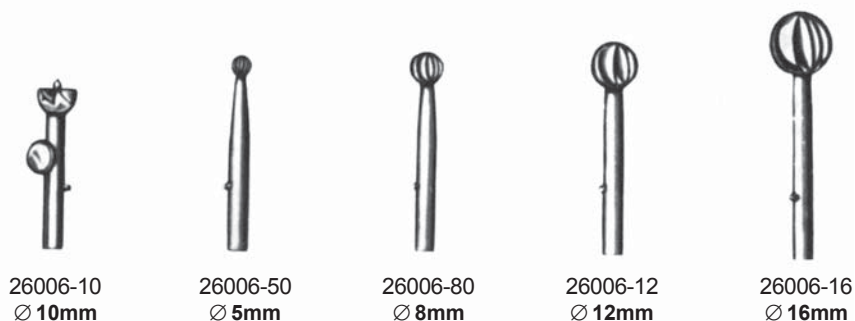
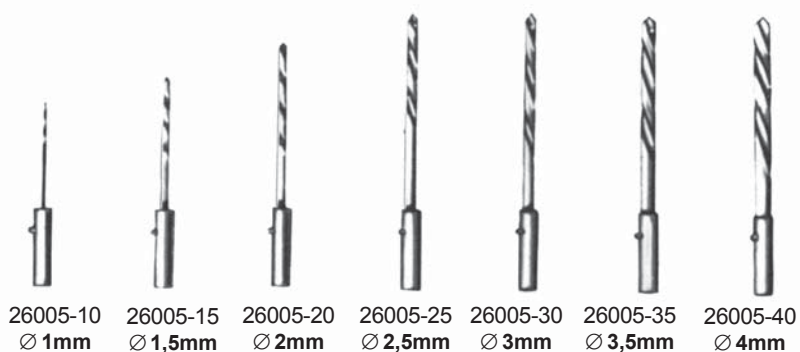


20,5 cm

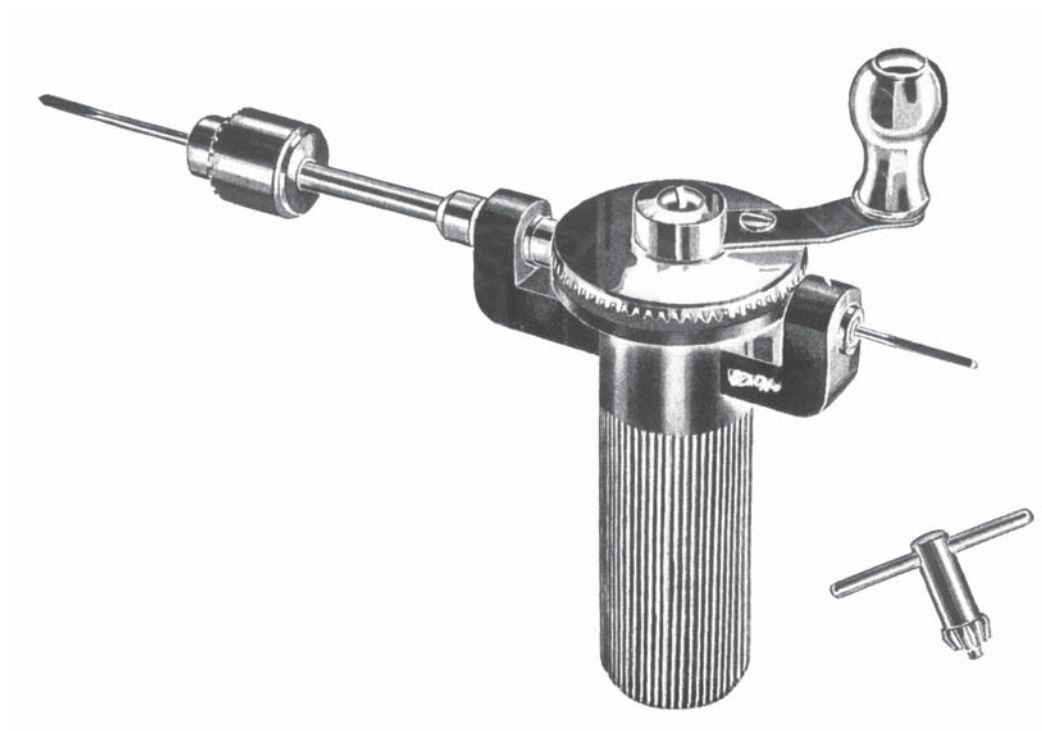




26005-00



**HUDSON**  
26008-25



31245-00



31248-16



- 31249-02 0,2mm Ø
- 31249-03 0,3mm Ø
- 31249-04 0,4mm Ø
- 31249-05 0,5mm Ø
- 31249-06 0,6mm Ø
- 31249-07 0,7mm Ø
- 31249-08 0,8mm Ø
- 31249-09 0,9mm Ø
- 31249-10 1,0mm Ø
- 31249-12 1,2mm Ø
- 31249-15 1,5mm Ø



**DEMEL**

- 31250-30 30mm Ø
- 31250-45 45mm Ø
- 31250-60 60mm Ø



- 31251-25 25mm Ø
- 31251-35 35mm Ø
- 31251-50 50mm Ø



- 31252-25 25mm Ø
- 31252-35 35mm Ø
- 31252-50 50mm Ø



- 31253-25 25mm Ø
- 31253-35 35mm Ø
- 31253-50 50mm Ø



31254-14

31255-13  
31255-1831256-17  
31257-17

31257-17



31258-19

31259-16  
31260-16  
31259-18  
31260-18

31259-16



31260-16



31259-18



31260-18

c/ 18 cm  
31261-03  
31261-05

3 mm



31261-03

5 mm



31261-05

31262-18  
até 2,4mm Ø31262-21  
até 3mm Ø

c/ placas tungsténio

| Ømm |          |
|-----|----------|
| 1,2 | 31263-12 |
| 1,5 | 31263-15 |
| 1,7 | 31263-17 |
| 2,0 | 31263-20 |
| 2,5 | 31263-25 |



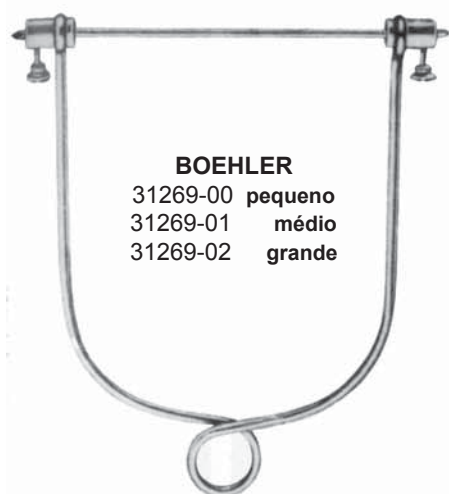
**KIRSCHNER**  
c/ 280 mm



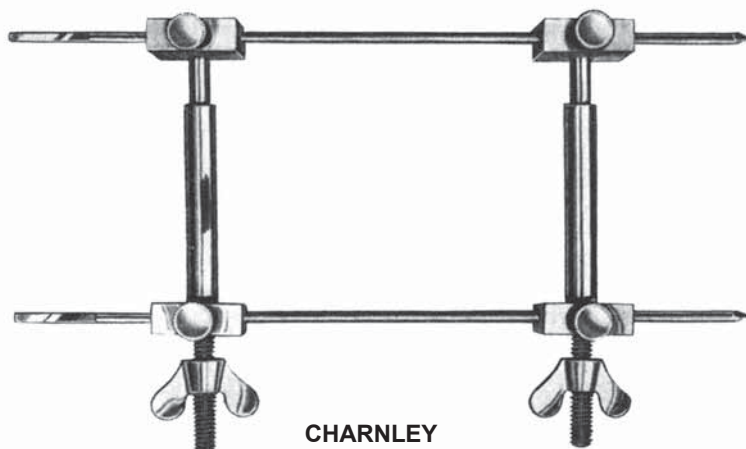
**STEINMANN**

| Ømm | c/200 mm | c/220 mm | c/240 mm | c/260 mm | c/280 mm |
|-----|----------|----------|----------|----------|----------|
| 2,5 | 31264-20 | 31264-22 | 31264-24 | 31264-26 | 31264-28 |
| 3   | 31265-20 | 31265-22 | 31265-24 | 31265-26 | 31265-28 |
| 3,5 | 31266-20 | 31266-22 | 31266-24 | 31266-26 | 31266-28 |
| 4   | 31267-20 | 31267-22 | 31267-24 | 31267-26 | 31267-28 |
| 5   | 31268-20 | 31268-22 | 31268-24 | 31268-26 | 31268-28 |

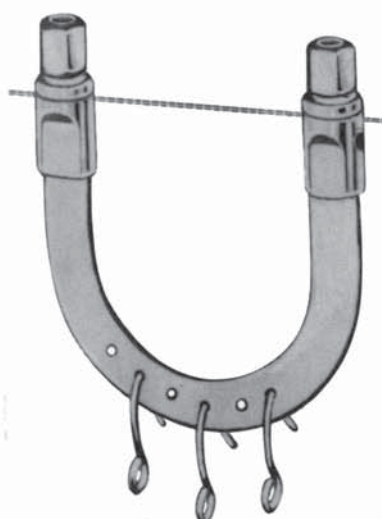




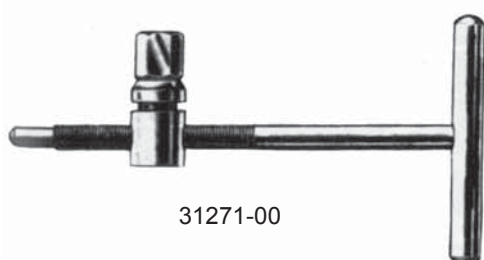
**BOEHLER**  
31269-00 pequeno  
31269-01 médio  
31269-02 grande



**CHARNLEY**  
31270-00



**KIRSCHNER**  
31270-00 9,5x11cm  
31270-01 12x12cm



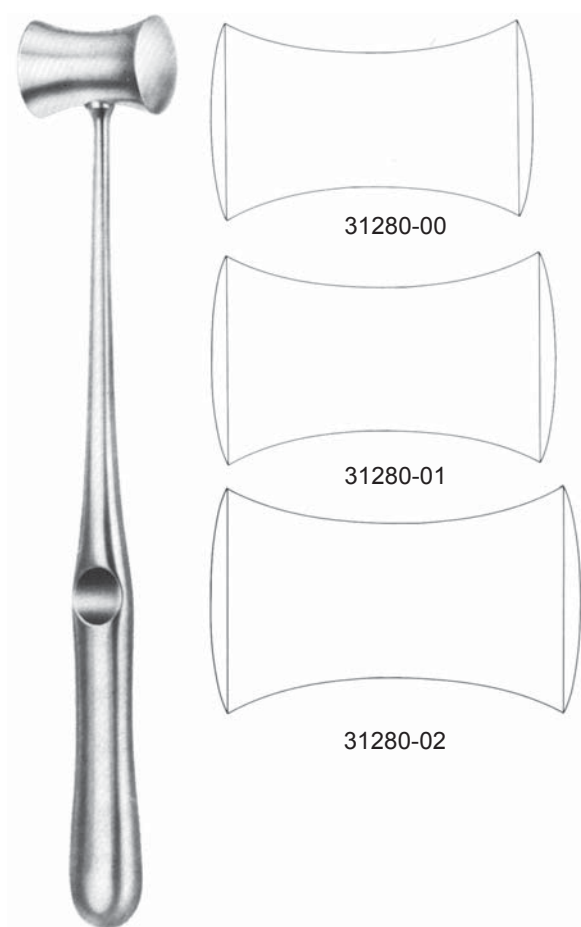
31271-00



31272-00    31272-01  
ganchos de tracção



31273-00 140x170mm  
31273-01 150x165mm  
31273-02 220x260mm



31280-00 a 31280-02