

Drill Bits / Taps / Countersinks
Bohrer / Punktierer / Senker
Brocas / Roscadoras / Avellanadores por Taladro
Punte / Maschi / Svasatori per Trapano
forets / trepans / fraises



Drill Bits

Size	Round Shaft	AO Coupling	Dental Coupling
1.1mm	100-001-11	100-003-11	100-004-11
1.5 mm	100-001-15	100-003-15	100-004-15
2.0 mm	100-001-20	100-003-20	100-004-20
2.5 mm	100-001-25	100-003-25	100-004-25
2.7 mm	100-001-27	100-003-27	100-004-27
3.2 mm	100-001-32	100-003-32	100-004-32
3.2 mm(long)	100-001-32L	100-003-32L	100-004-32L
3.5 mm	100-001-35	100-003-35	100-004-35
3.5 mm(long)	100-001-35L	100-003-35L	100-004-35L
4.5 mm	100-001-45	100-003-45	100-004-45
4.5 mm(long)	100-001-45L	100-003-45L	100-004-45L

Taps

Size	T-Handle	AO Coupling	Dental Coupling
1.5 mm			100-014-15
2.0 mm			100-014-20
2.7 mm	100-011-27	100-013-27	
3.5 mm(cortical)	100-011-35	100-013-35	
3.5 mm(cancellous)	100-011-35D	100-013-35D	
4.0 mm	100-011-40	100-013-40	
4.5 mm(short thread)	100-011-45	100-013-45	
4.5 mm(long thread)	100-011-45D	100-013-45D	
6.5 mm	100-011-65	100-013-65	



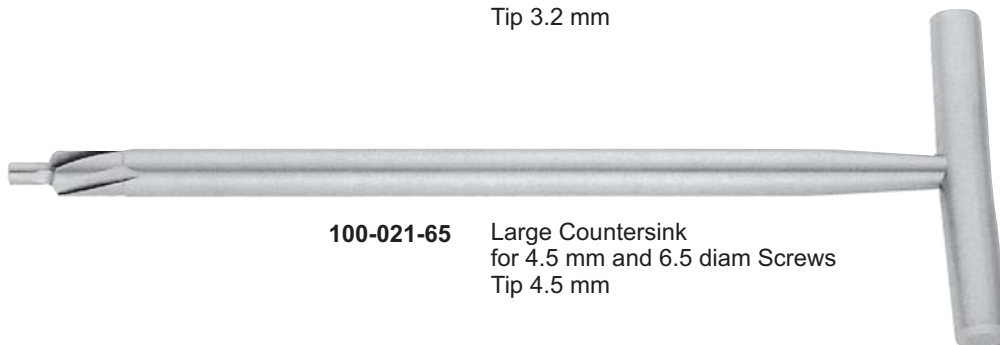
100-021-15 Mini Countersink
for 1.5 mm Screws 2.00 mm Diam Tip 1.1 mm



100-021-27 Small Countersink
for 2.7, 3.5 mm and 4.0 mm Screws Tip 2.0 mm



100-021-45 Malleolar Countersink
Tip 3.2 mm

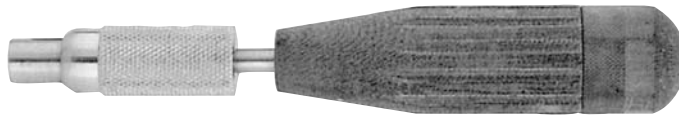


100-021-65 Large Countersink
for 4.5 mm and 6.5 diam Screws
Tip 4.5 mm

Handles Griffe Mangas Manici Poignées



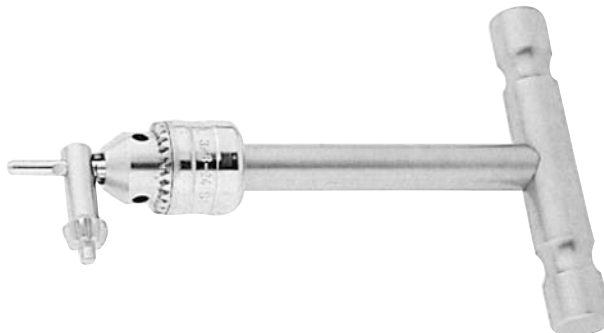
100-030-11 Handle for dental Coupling



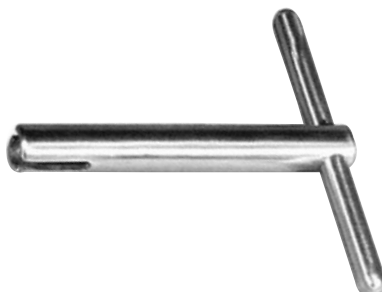
100-032-32 Fiber Handle for AO Coupling



100-034-02 T-Handle for AO Coupling



100-040-01 Jacob's Chuck with T-Handle and key
100-040-09 Jacob's Chuck only
100-042-05 Key for Jacob's Chuck



100-042-15 Handle for key

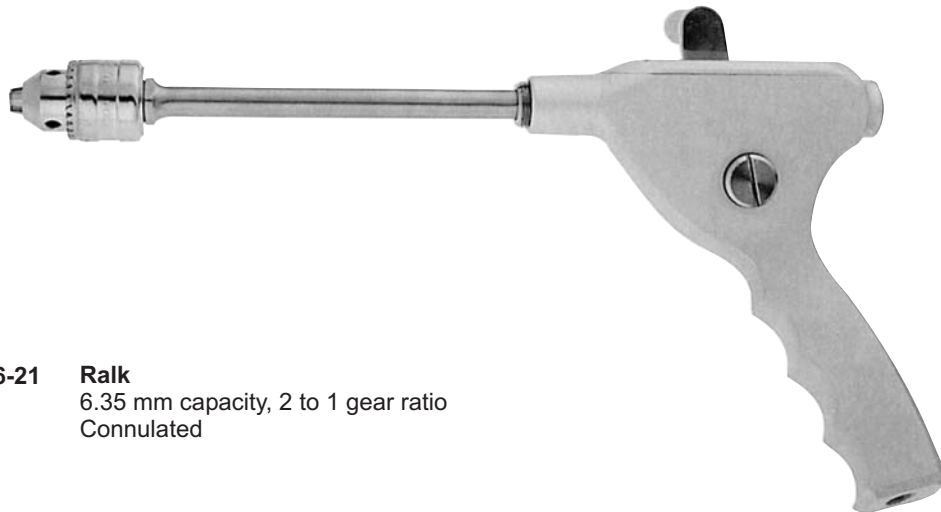


100-042-25 Key with fiber Handle 7"

Bone Hand Drills
Knochen Handbohrer
Perforador a Mano
Perforatori a Mano
Perceuses sans fil pour os

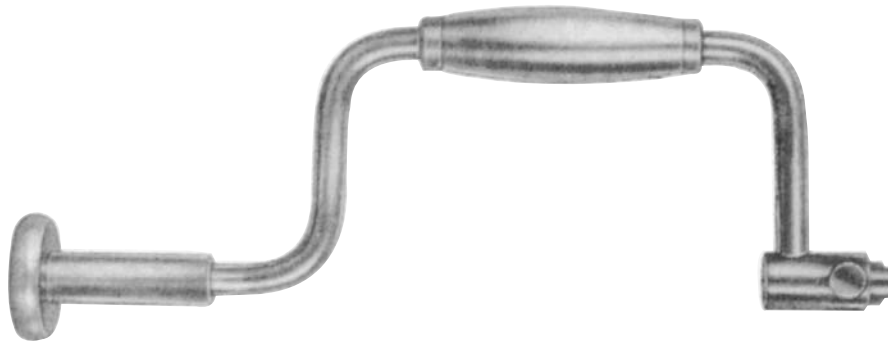


100-045-03 Ralk
Hand Drill light metal case and laterally angled handle, with 3 - jaw chuck and key, opening up to 6.35 mm diameter



100-046-21 Ralk
6.35 mm capacity, 2 to 1 gear ratio
Connulated

**Bone Hand Drills
Knochen Handbohrer
Perforador a Mano
Perforatori a Mano
Perceuses sans fil pour os**



100-050-00 Hudson



**Fig. 1
100-050-01**



**Fig. 2
100-050-02**



**Fig. 3
100-050-03**



100-050-07 Cushing

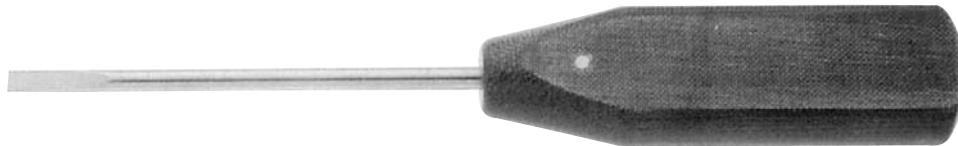


100-050-13

Screw Drivers Schraubendreher Destornillador Cacciavite Tournevis



100-051-20 Screw Driver single head



100-052-48 Screw Driver philips head



100-053-10 Screw Driver slotted head



A



B



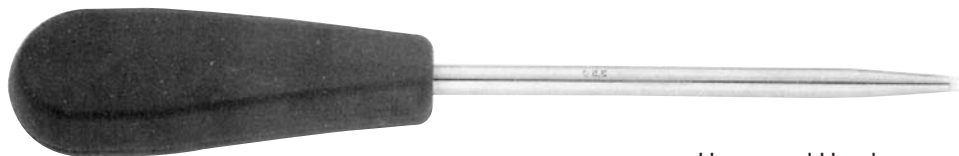
C



D



- 100-055-01** A Screw Driver Williams for Phillips Head
- 100-055-03** B Screw Driver Williams for Slotted Head
- 100-055-04** C Screw Driver Williams for Single Head
- 100-055-06** D Screw Driver Williams for Hexagonal Head 3.5 mm



Hexagonal Head

Size of screws	Head Size	Fiber-Handle	AO Coupling	Dental Coupling
1.5mm	1.5mm	100-061-15	100-063-15	100-064-15
2.0mm				
2.7mm	2.5mm	100-061-25	100-063-25	
3.5mm				
4.0mm				
4.5mm	3.5mm	100-061-35	100-063-35	
6.5mm				



100-065-15 Holding Sleeve 1.5 mm



100-065-25 Holding Sleeve 2.5 mm

Instruments For Plating Instrumente zur Plattierung Instrumentos Para Placas Strumenti di Placcatura Outils de pose de plaque



- 100-070-15** Depth Gauge for 1.5 mm and 2.0 mm screws
100-070-35 Depth Gauge for 2.7 mm and 4.0 mm screws
100-070-45 Depth Gauge for 4.5 mm and 6.5 mm screws



100-072-02 Screw forceps



100-073-16 Sharp Hook



Bending Template

Size	3.5 mm	4.5 mm
5 hole		100-076-05
7 hole	100-075-07	100-076-07
9 hole	100-075-09	100-076-09



100-077-20 Bone Screw Holding Forceps



100-078-15 Bone Plate Holding Forceps



100-080-02 Socket Wrench, width across flats 11 mm



100-081-08 8 mm screw-type Compression Device



100-082-20 Articulated Tension Device with Indicator, span 20 mm may also be used for distraction of standard and small plates



100-083-02 Pin Wrench for Tension Device and Distactor



100-084-11 Combination Wrench width across flats 11 mm



100-085-07 Drill Sleeve for Tension Device

Plate Bending Instruments
Instrumente zum Blech biegen
Instrumentos Para Flexionar Placas
Strumenti di Piegatura Placche
Outils de pliage de plaque



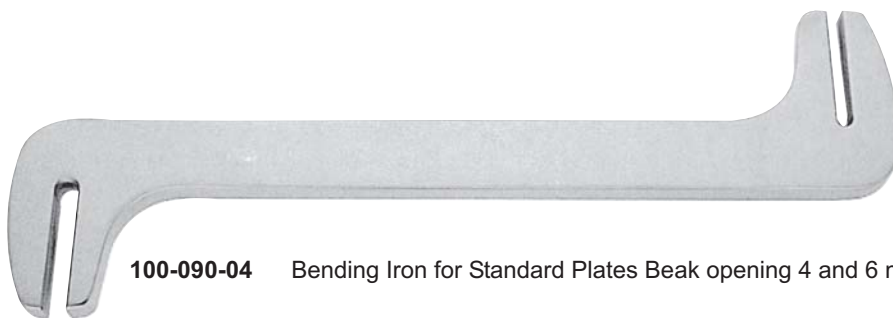
100-090-01 Bending Iron for Mini Plates



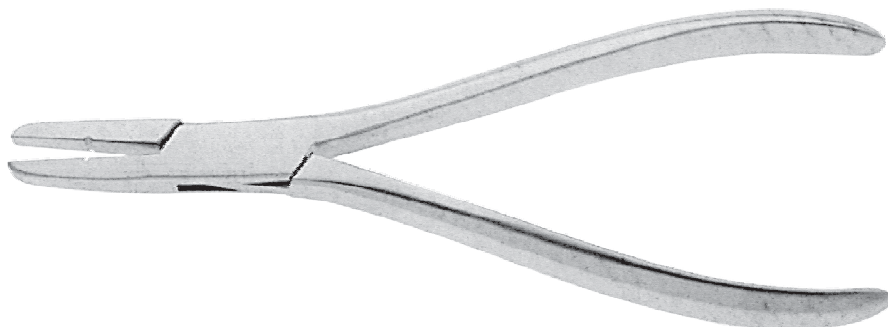
100-090-02 Bending Irons for small plates to be used as a pair



100-090-03 Bending Irons for small plates to be used as a pair



100-090-04 Bending Iron for Standard Plates Beak opening 4 and 6 mm

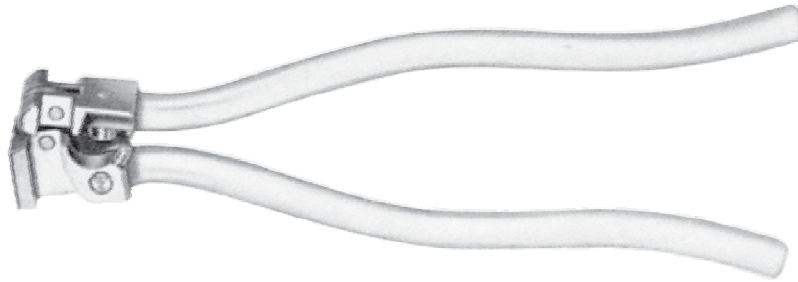


100-092-15 Bending Pliers for 1.5 and 2.0 mm Plates

Plate Bending Instruments
Instrumente zum Blech biegen
Instrumentos Para Flexionar Placas
Strumenti di Piegatura Placche
Outils de pliage de plaque



100-092-27 Bending Pliers for 2.7 and 3.5 mm plates



100-093-35 Bending Pliers for 2.7 mm and 3.5 mm Plates



100-093-45 Bending Iron for 3.5 mm and 4.5 mm Plates



100-095-20 Bending Device to bend straight and angled plates

Drill Sleeves Bohrhüllen Camisas de Broca Cannula Guida Embouts de forets



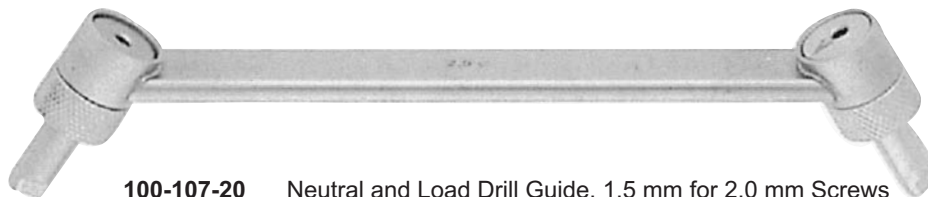
100-101-11 Mini Drill Sleeve for 1.1 mm and 1.5 mm drill bits
100-101-15 Mini Drill Sleeve for 1.5 mm and 2.0 mm drill bits



100-103-20 Drill Guide and drill sleeve for 2.0 mm drill bit



100-105-27 Tap Sleeve, 2.0 mm Ø
Drill Sleeve, 2.7 mm Ø
100-105-35 Tap Sleeve, 2.5 mm Ø
Drill Sleeve, 3.5 mm Ø



100-107-20 Neutral and Load Drill Guide, 1.5 mm for 2.0 mm Screws
100-107-27 Neutral and Load Drill Guide, 2.0 mm for 2.7 mm Screws
100-107-35 Neutral and Load Drill Guide, 2.5 mm for 3.5 mm Screws
100-107-45 Neutral and Load Drill Guide, 3.2 mm for 4.5 mm Screws



100-112-35 Tap Sleeve, 3.5 mm
also for used as 3.2 mm drill Guide



100-115-45 Tap Sleeve, 4.5 mm

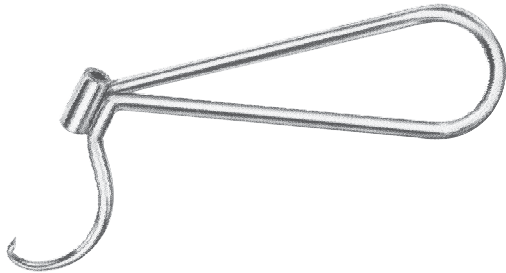


100-118-32 Drill sleeve 3.2 mm for Round Hole Plates

Drill Sleeves Bohrhüllen Camisas de Broca Cannula Guida Embouts de forets



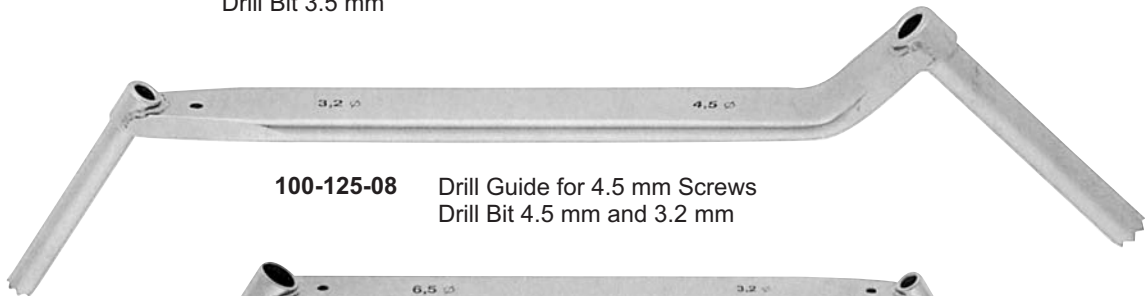
- 100-120-27** Insert Drill Sleeve 2.7 / 2.0 mm Drill Bit 2.0 mm
100-120-35 Insert Drill Sleeve 3.5 / 2.5 mm Drill Bit 2.5 mm
100-120-45 Insert Drill Sleeve 4.5 / 3.2 mm Drill Bit 3.2 mm



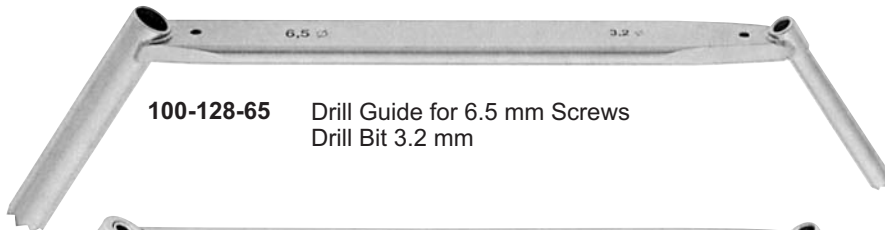
100-122-35 Small Pointed Drill for Drill Bit 3.5 mm



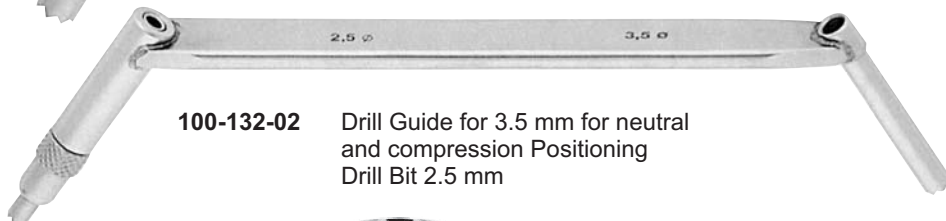
100-123-58 Pointed Drill Guide 6.5 mm



100-125-08 Drill Guide for 4.5 mm Screws
Drill Bit 4.5 mm and 3.2 mm



100-128-65 Drill Guide for 6.5 mm Screws
Drill Bit 3.2 mm



100-132-02 Drill Guide for 3.5 mm for neutral and compression Positioning
Drill Bit 2.5 mm



100-135-45 C - Clamp Drill Guide with thread for Drill Bit 4.5 mm

Bone Holding Forceps
Knochenzangen
Pinzas de Sujeción de Huesos
Tenaglie per Ossa
Pinces de maintien de l'os



100-175-33 Lane
100-175-45 330 mm
450 mm



100-178-33 Lane
100-178-45 330 mm
450 mm

Bone Holding Forceps
Knochenzangen
Pinzas de Sujeción de Huesos
Tenaglie per Ossa
Pinces de maintien de l'os



Kern
100-182-16 160 mm with ratchet
100-182-21 210 mm with ratchet
100-183-16 160 mm without ratchet
100-183-21 210 mm without ratchet



Farabeuf-Lambotte
100-186-23 230 mm with ratchet
100-186-26 260 mm with ratchet
100-187-23 230 mm without ratchet
100-187-26 260 mm without ratchet



100-190-26 Lambotte 265 mm

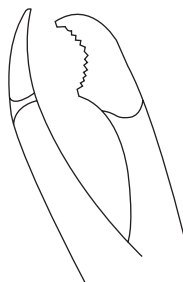


Lambotte
100-191-22 220 mm
100-191-27 270 mm
100-191-33 330 mm

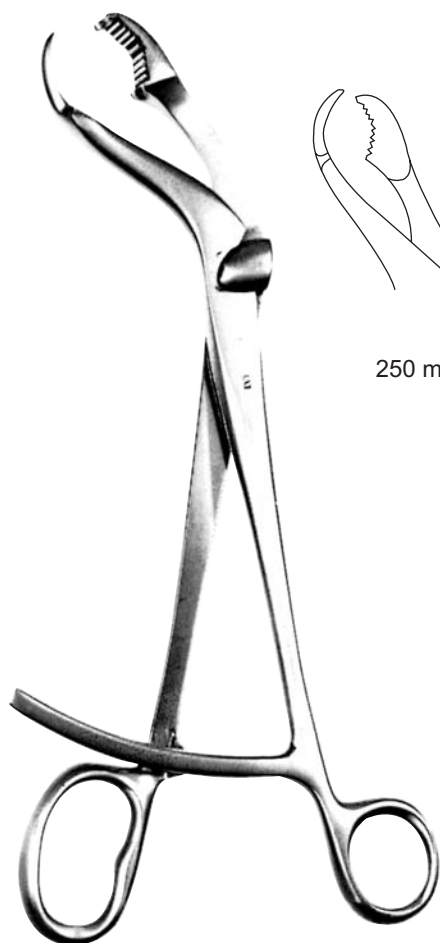
Bone Holding Forceps
Knochenzangen
Pinzas de Sujeción de Huesos
Tenaglie per Ossa
Pinces de maintien de l'os



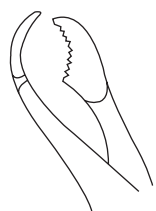
100-198-17 Verbrugge 175 mm



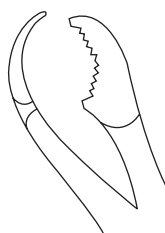
100-200-14 Verbrugge 175 mm



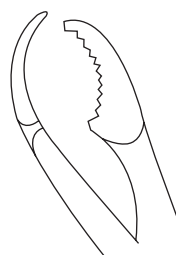
100-202-25 Verbrugge 250 mm
100-202-26 260 mm
100-202-27 270 mm



250 mm



260 mm



270 mm



100-203-25 Verbrugge 250 mm
100-203-26 260 mm
100-203-27 270 mm

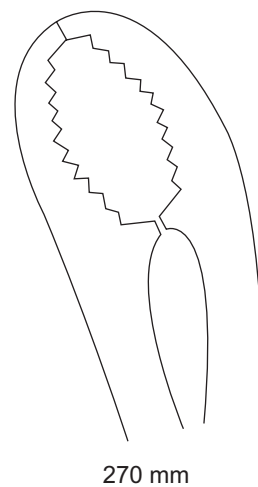
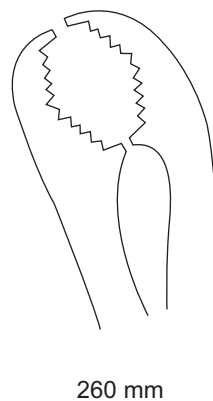
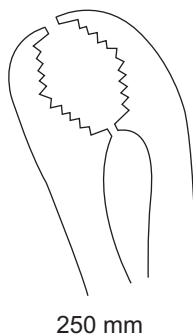
Bone Holding Forceps
Knochenzangen
Pinzas de Sujeción de Huesos
Tenaglie per Ossa
Pinces de maintien de l'os



100-206-17 Verbrugge 175 mm



100-208-25 Verbrugge 250 mm
100-208-26 260 mm
100-208-27 270 mm



Bone Holding Forceps
Knochenzangen
Pinzas de Sujeción de Huesos
Tenaglie per Ossa
Pinces de maintien de l'os



- 100-215-15** Self-Centering Bone Holding Forceps with Thread Lock
 For small Fragments 150 mm, jaw 9 mm
 Size 0
- 100-215-19** 190 mm, Extra small jaw 10 mm
 Size 1
- 100-215-24** 240 mm, small jaw 14 mm
 Size 2
- 100-215-26** 260 mm, medium jaw 18 mm
 Size 3
- 100-215-28** 280 mm, large jaw 23 mm



- 100-218-21** Hey Groves 210 mm
100-218-27 270 mm
100-218-30 305 mm



- 100-220-19** Ulrich 190 mm
100-220-23 230 mm
100-220-25 250 mm
100-220-28 280 mm



- 100-221-26** Ulrich 260 mm

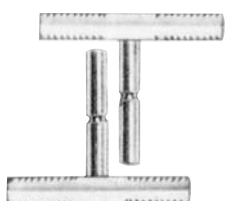
Bone Holding Forceps
Knochenzangen
Pinzas de Sujeción de Huesos
Tenaglie per Ossa
Pinces de maintien de l'os



100-225-07 Holding forceps with Ball



100-226-19 Lewin 190 mm



Set includes:
 Hooked Jaws: 1 pair
 Serrated Jaws: 3 pairs
 Sizes: 32, 51 and 57 mm



100-230-04 Charnley Bone Forceps

Bone Holding Forceps
Knochenzangen
Pinzas de Sujeción de Huesos
Tenaglie per Ossa
Pinces de maintien de l'os

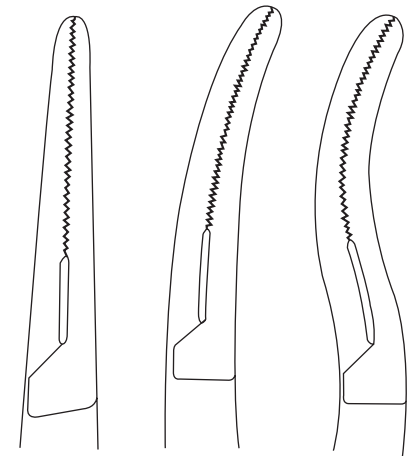
Sequestrum Forceps



100-240-20 Semb
100-240-30 200 mm
 300 mm



100-245-03 Collin
100-245-07 Straight
100-245-11 Curved on Edge
 Double Bent



Straight Curved on Edge Double Bent

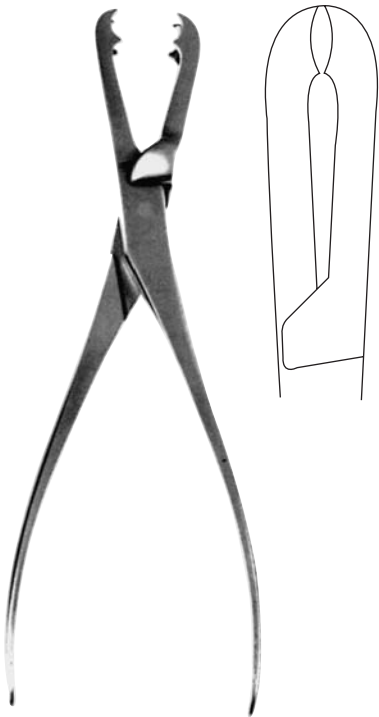


100-247-20 200 mm

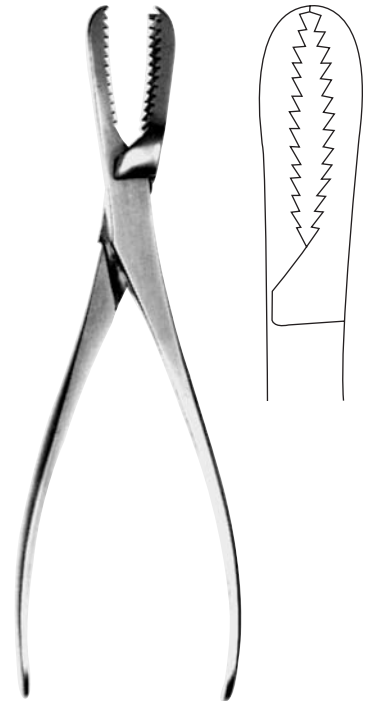


100-250-18 Dingmann

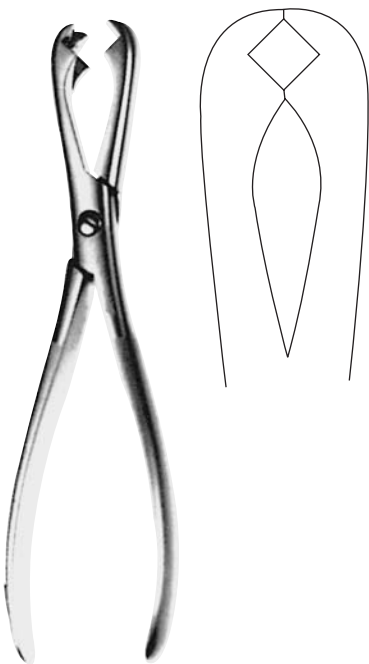
Bone Holding Forceps
Knochenzangen
Pinzas de Sujeción de Huesos
Tenaglie per Ossa
Pinces de maintien de l'os



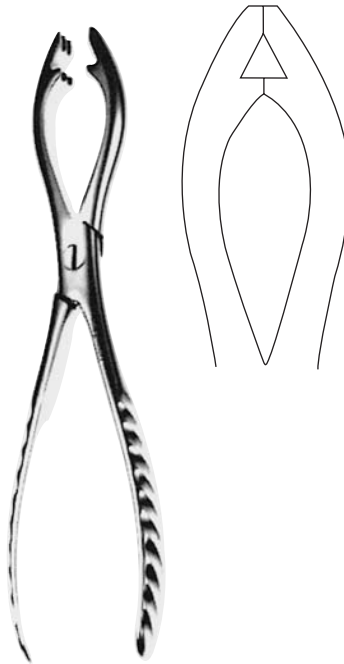
100-255-19 Collin Lion Jaw 190 mm



100-257-19 Collin Toothed Jaw 195 mm



100-260-21 Bardeleben 210 mm



100-263-21 Ferguson 210 mm



100-266-23 Ferguson 230 mm

Bone Reduction Forceps
Knochenreponierzange
Pinzas de Reducción Ósea
Pinze per Riduzione Ossa
pinces de réduction de l'os



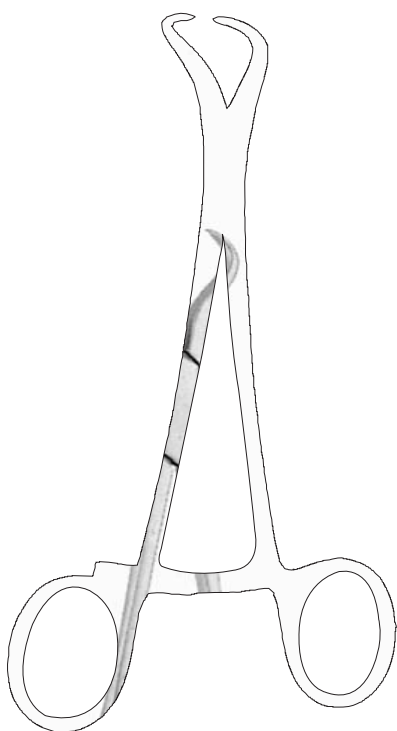
100-270-17 Reil 170 mm



100-272-20 Reduction Forceps



100-275-17 For fingers, with drill Guide for Kirschner Wires up to 1 mm 170 mm



100-278-09 Reposition Forceps for mini Fragments 95 mm
100-278-13 for Small Fragments 135 mm

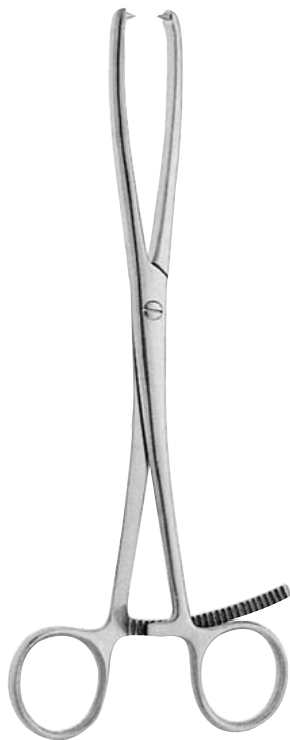


100-280-13 Holding forceps 135 mm

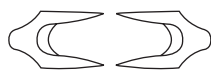


100-284-14 Forceps with Ratchet Fixation 145 mm

Bone Reduction Forceps
Knochenreponierzange
Pinzas de Reducción Ósea
Pinze per Riduzione Ossa
pinces de réduction de l'os



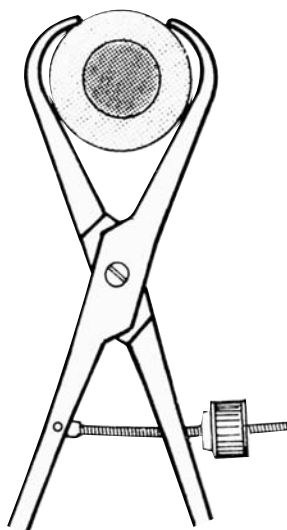
100-288-20 Malleolar Forceps



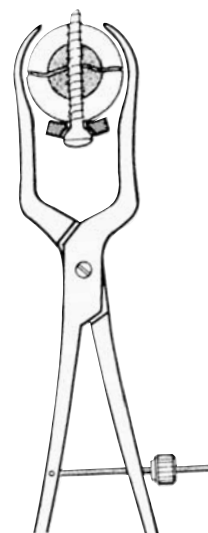
100-292-18 Patella Forceps 185 mm



100-298-16 Reduction Forceps
 160 mm with Thread Lock
100-298-24 240 mm with Thread Lock



100-295-23 Reposition Forceps 230 mm



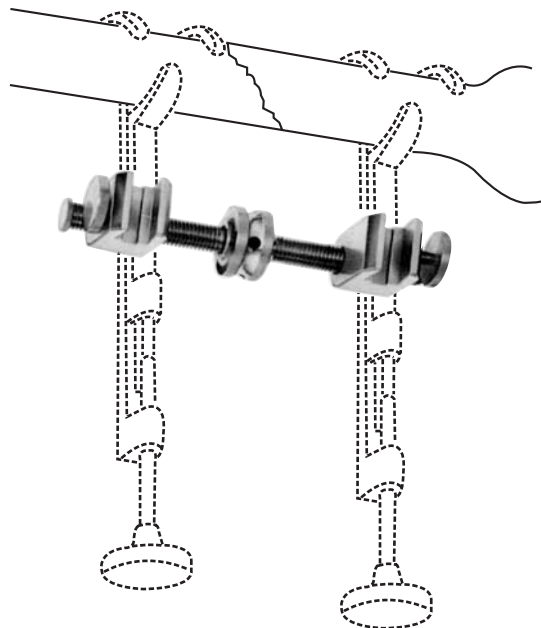
**Bone Holding Clamps
Knochenklammern
Clamp por Huesos
Morsetti per Ossa
Pinces de maintien de l'os**



100-325-13 Lowmann Bone Clamp 130 mm
100-325-18 Lowmann Bone Clamp 185 mm
100-325-30 Lowmann Bone Clamp 300 mm



Lowman-Hoglund 175 mm



100-329-02 Gerster

Standard Retractors

Standard Retraktor

Separadores Estándar

Divaricatori Standard

Écarteurs Standard



Fig. 1 100-352-06

Periosteal Elevator 175 mm
For Metacarpals Small
6 mm width



Fig. 2 100-352-10

For Metacarpals Medium
10 mm width



Fig. 3 100-352-45

Light Curve, Rounded End,
5 mm width



Fig. 4 100-352-50

Contra Angled Curve
4.5 mm width



100-358-06
Small, width 6 mm
short, narrow tip



100-360-08
Small, width 8 mm
short, narrow tip



100-364-15
For Small Fragments
Board Shank



100-368-08
Width 8 mm
short, narrow tip



100-374-18 Width 18 mm short,
narrow tip
100-376-18 Width 18 mm long,
narrow tip



100-376-43 Width 43 mm
narrow tip
100-376-70 Width 70 mm
narrow tip



100-378-43
Width 43 mm
long shank, angled

Standard Retractors
Standard Retraktor
Separadores Estándar
Divaricatori Standard
Écarteurs Standard



100-382-22 width 22 mm wide tip



100-384-24 long wire tip for Hip Surgery, width 24 mm



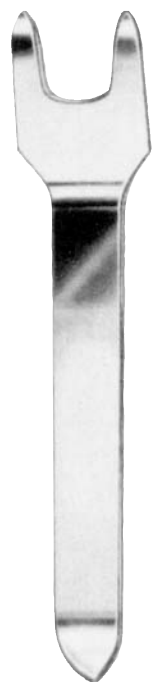
100-387-12 Lange-Hohmann



100-390-24 Bennett 240 mm



100-391-17 Retractor for Knee 175 mm



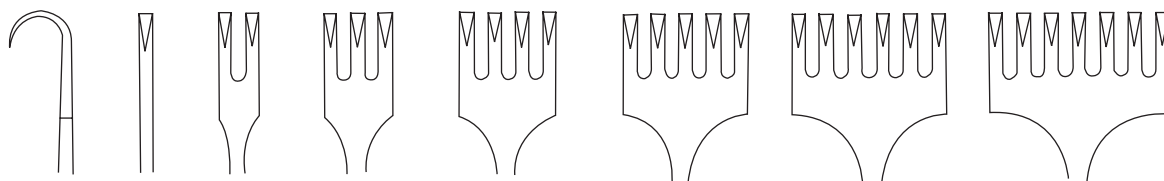
100-393-27 Retractor for Knee Blount 270 mm

Retractors Retraktor Separadores Divaricatori Écarteurs



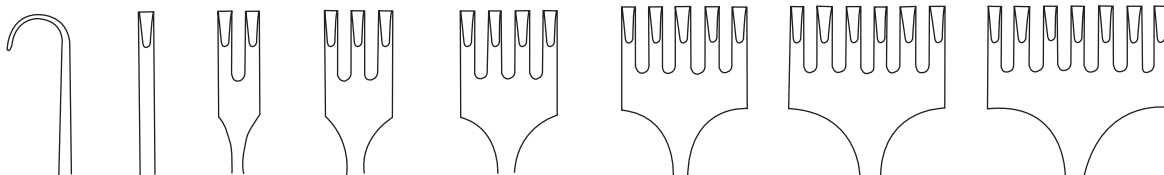
Volkmann 215 mm

Sharp



100-403-01 100-403-02 100-403-03 100-403-04 100-403-05 100-403-06 100-403-07

Blunt

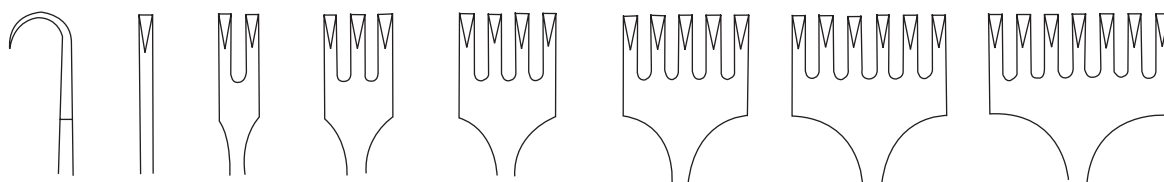


100-404-01 100-404-02 100-404-03 100-404-04 100-404-05 100-404-06 100-404-07



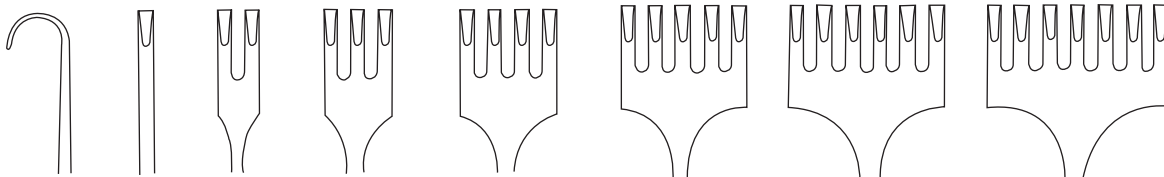
Volkmann 215 mm

Sharp



100-408-01 100-408-02 100-408-03 100-408-04 100-408-05 100-408-06 100-408-07

Blunt

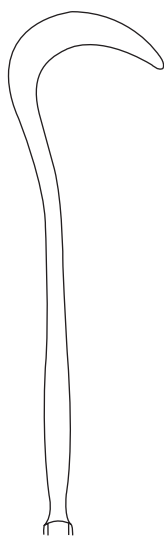


100-409-01 100-409-02 100-409-03 100-409-04 100-409-05 100-409-06 100-409-07

Retractors Retraktor Separadores Divaricatori Écarteurs



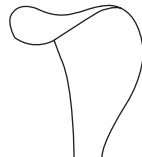
Gil-Vernet 240 mm



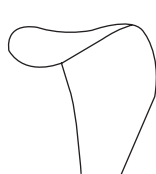
100-415-09
9 mm



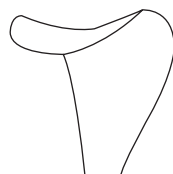
100-415-11
11 mm



100-415-13
13 mm



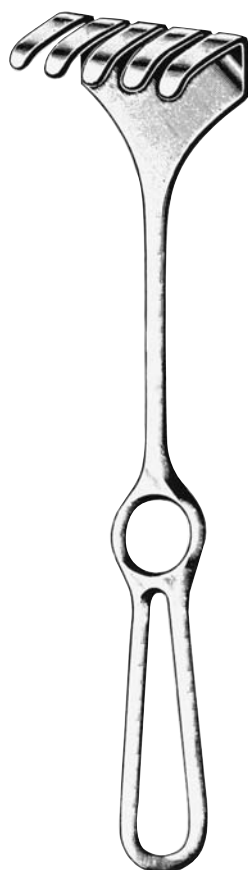
100-415-15
15 mm



100-415-18
18 mm



100-418-22 Israel 225 mm



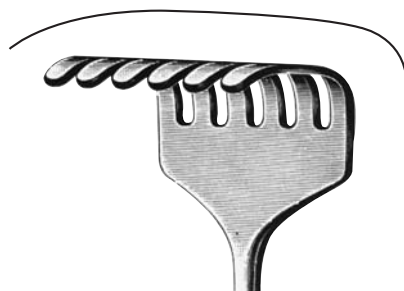
Israel 230 mm



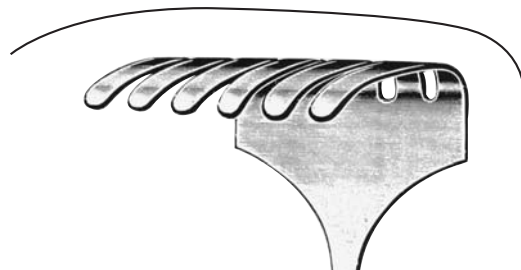
100-419-40
40 x 40 mm, 4 Pronges, Blunt



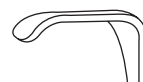
100-419-50
40 x 50 mm, 5 Pronges, Blunt



100-419-60
50 x 60 mm, 6 Pronges, Blunt



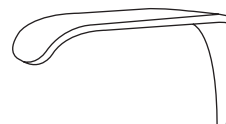
100-419-70
70 x 70 mm, 6 Pronges, Blunt



32.494.45
45 x 15 mm



32.494.60
60 x 23 mm



32.494.75
75 x 20 mm



Sauerbruch 250 mm

Retractors Retraktor Separadores Divaricatori Écarteurs



Middeldorpf 210 mm



32.344.14
14 x 7 mm



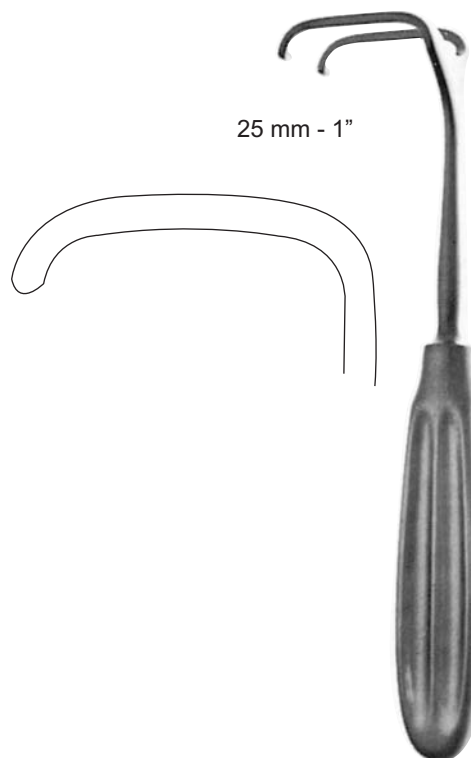
32.344.20
20 x 22 mm



32.344.26
26 x 30 mm



32.360.04 Ollier 225 mm



100-425-18 Ollier 185 mm



Langenbeck 200 mm



100-429-01
20 x 7 mm



100-429-02
30 x 7 mm



100-429-03
30 x 11 mm



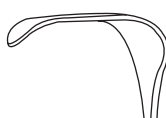
100-429-04
30 x 15 mm



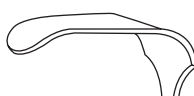
100-429-05
30 x 20 mm



100-429-06
44 x 10 mm



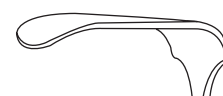
100-429-07
44 x 15 mm



100-429-08
45 x 20 mm



100-429-09
50 x 20 mm



100-429-10
60 x 20 mm

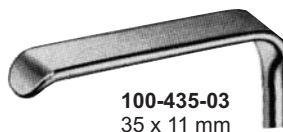
Retractors Retraktor Separadores Divaricatori Écarteurs



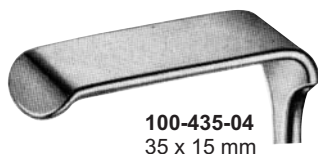
100-435-01
25 x 6 mm



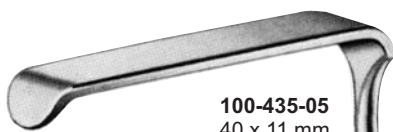
100-435-02
35 x 8 mm



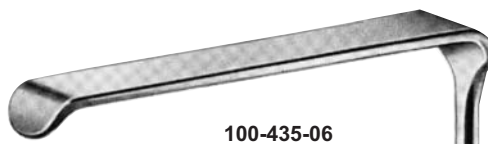
100-435-03
35 x 11 mm



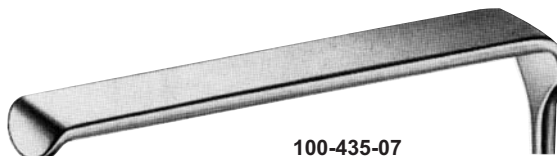
100-435-04
35 x 15 mm



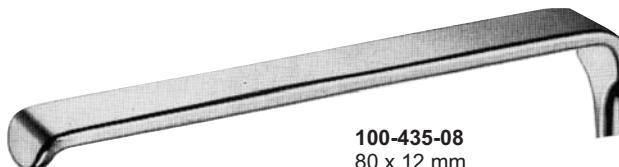
100-435-05
40 x 11 mm



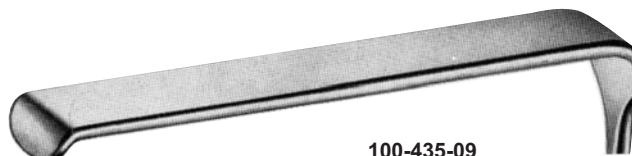
100-435-06
55 x 11 mm



100-435-07
70 x 14 mm



100-435-08
80 x 12 mm



100-435-09
80 x 16 mm



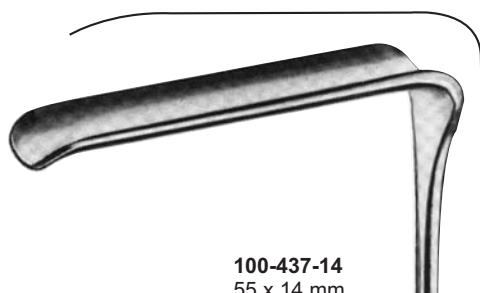
Kocher-Langenbeck 215 mm



Caspar 215 mm



100-437-12
40 x 12 mm



100-437-14
55 x 14 mm



100-439-15
22 x 15 mm



100-439-20
38 x 20 mm



100-439-25
67 x 25 mm



Kocher-Wagner 280 mm

Retractors
Retraktor
Separadores
Divaricatori
Écarteurs



Korte 230 mm

32.366.08
 30 x 40 mm, sharp



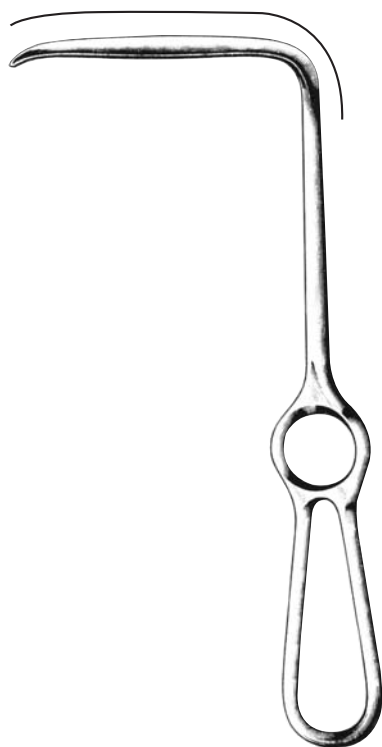
32.367.08
 30 x 40 mm, blunt



100-445-28 Korte 230 mm



100-447-23 Korte-Wagner 280 mm



100-449-21 Langenbeck 215 mm, Handle vertical to the blade

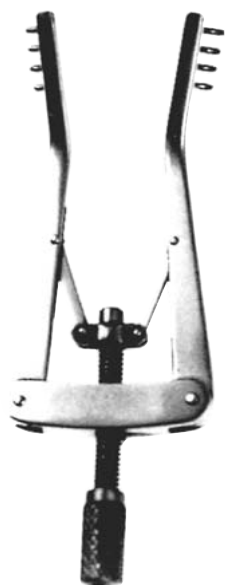


100-451-13 Lambotte 13 x 235 mm
100-451-20 20 x 255 mm
100-451-27 27 x 270 mm

32.348.22 Greene 220 mm



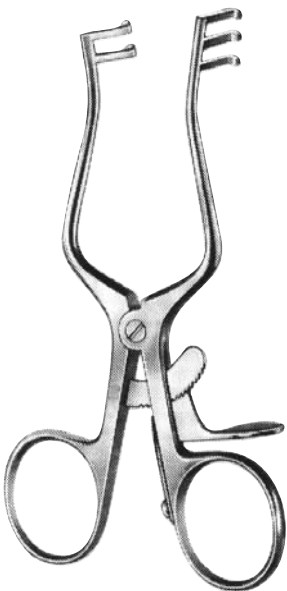
Retractors
Retraktor
Separadores
Divaricatori
Écarteurs



100-475-70 ALM 70 mm

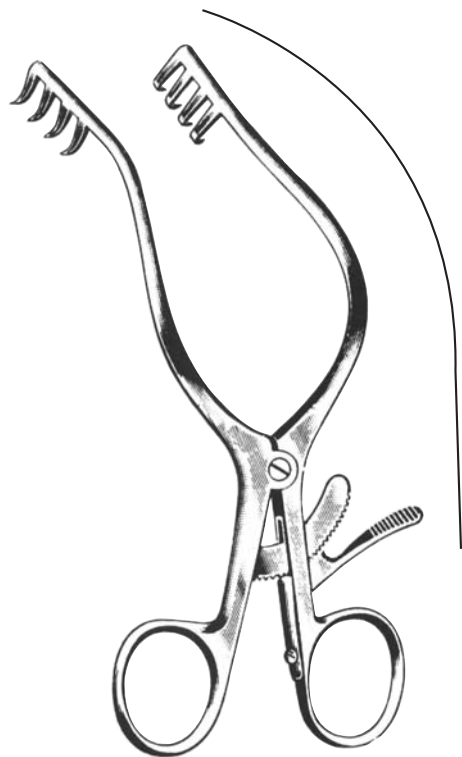


100-477-85 SIMAL 85 mm



Weitlaner

Size	Pronges	Blunt	Sharp
105 mm	2 x 3	100-480-01	100-481-01
130 mm	3 x 4	100-480-04	100-481-04
165 mm	3 x 4	100-480-09	100-481-09
200 mm	3 x 4	100-480-15	100-481-15
250 mm	5 x 6	100-480-18	100-481-18



100-485-15 Mollison 150 mm



100-487-18 Gelpi 180 mm

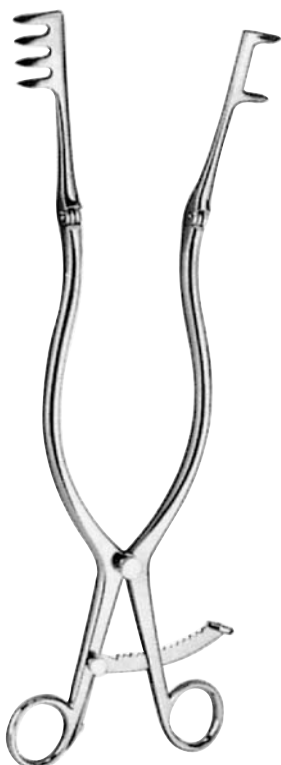
Retractors
Retraktor
Separadores
Divaricatori
Écarteurs



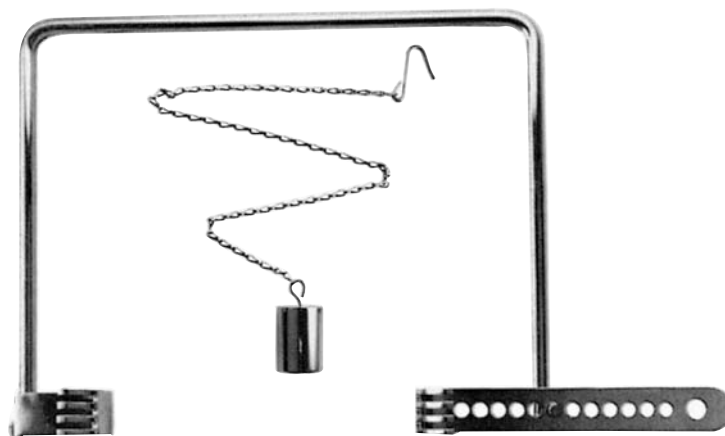
32.930.13 Weitlaner Wullstein 130 mm
32.932.13 Sharp
 Blunt



100-495-29 Beckmann Adson Retractor 290 mm



100-497-33 Horizontal Retractor 330 mm



100-500-00 Charnely Retractor Complete
100-500-03 Frame Small
100-500-05 Frame Medium
100-500-07 Frame Large
100-500-13 Retractor Blades Small
100-500-15 Retractor Blades Medium
100-500-17 Retractor Blades Large
100-500-25 Weight and Chain

**Aufranc Cobra Retractors
Aufranc Kobra Retraktor
Separadores Aufranc-Cobra
Leve Aufranc-Cobra
Écarteurs Aufranc Cobra**



100-515-02 Aufranc 290 mm



100-515-05 Aufranc 290 mm

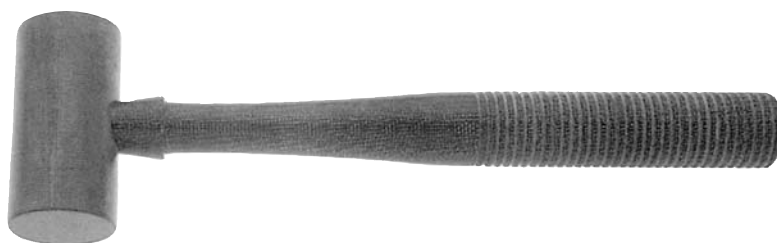


100-515-07 Aufranc 290 mm

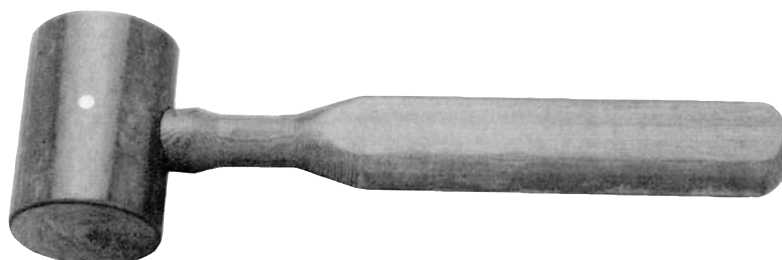
Mallets Schlägel Martillos Martelli Maillets



100-602-35 Weight approx:350 g
100-602-50 Weight approx:500 g(standard size)
100-602-70 Weight approx:700 g (For Medullary Nailing)



100-604-12 18,0 cm length, 30 mm, 125 g (4 oz)
 Material Ferozell can be sterilized in an autoclave
 at 3 bar overpressure (143°C)

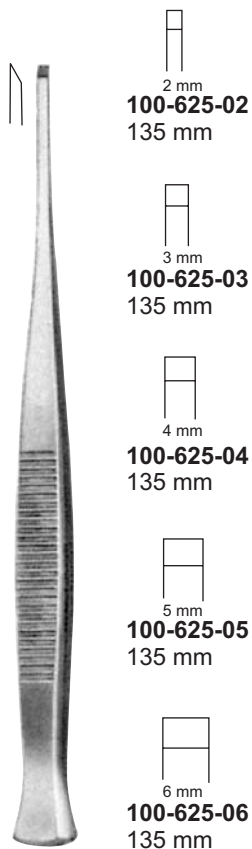


100-609-25 42 mm, 250 mm
 Material Ferozell can be sterilized in an autoclave
 at 3 bar overpressure (143°C)



100-612-21 30 mm / 215 g
 with interchangeable Plastic disks 250 mm
100-613-02 Pair of spare disks

Chisels / Osteotomes Meißel / Osteotomien Gubias / Osteotomos Scalpelli / Osteotomi Ciseaux / Ostéotomes



100-625-02
2 mm
135 mm

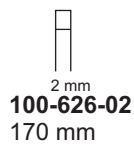
100-625-03
3 mm
135 mm

100-625-04
4 mm
135 mm

100-625-05
5 mm
135 mm

100-625-06
6 mm
135 mm

Partsch



100-626-02
2 mm
170 mm

100-626-03
3 mm
170 mm

100-626-04
4 mm
170 mm

100-626-05
5 mm
170 mm

100-626-06
6 mm
170 mm



Alexander 180 mm

100-628-04
4 mm

100-628-06
6 mm

100-628-08
8 mm

100-628-10
10 mm

100-628-12
12 mm

100-628-14
14 mm



Smith Peterson

100-632-06 6 mm
100-632-09 9 mm
100-632-12 12 mm
100-632-15 15 mm
100-632-20 20 mm
100-632-25 25 mm
100-632-30 30 mm



100-635-10
100-635-12
100-635-15
100-635-20
100-635-25

Chisels
10 mm
12 mm
15 mm
20 mm
25 mm

100-636-10
100-636-12
100-636-15
100-636-20
100-636-25

Osteotome
10 mm
12 mm
15 mm
20 mm
25 mm

Stille



100-640-02 170 mm length 2 mm width
100-640-05 170 mm length 5 mm width
100-640-10 170 mm length 10 mm width

Mini- Lambotte



Lambotte

100-642-10 Straight 10 mm
100-642-15 Straight 15 mm
100-642-20 Straight 20 mm
100-642-25 Straight 25 mm
100-642-30 Straight 30 mm
100-642-38 Straight 38 mm
100-642-44 Straight 44 mm
100-642-50 Straight 50 mm

100-643-10 Curved 10 mm
100-643-15 Curved 15 mm
100-643-20 Curved 20 mm
100-643-25 Curved 25 mm
100-643-30 Curved 30 mm
100-643-38 Curved 38 mm
100-643-44 Curved 44 mm
100-643-50 Curved 50 mm

Chisels / Osteotomes
Meißel / Osteotomien
Gubias / Osteotomos
Scalpelli / Osteotomi
Ciseaux / Ostéotomes

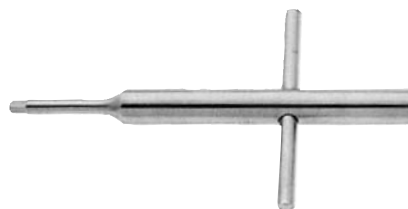


100-650-



100-650-05 Chisel Blade 5 mm
100-650-10 Chisel Blade 10 mm
100-650-16 Chisel Blade 16 mm
100-650-25 Chisel Blade 25 mm

100-651-05 Osteotome Blade 5 mm
100-651-10 Osteotome Blade 10 mm
100-651-16 Osteotome Blade 16 mm
100-651-25 Osteotome Blade 25 mm



100-650-40 Wrench for Chisel Handle



100-656-10 Flat 10 mm
100-656-15 Flat 15 mm
100-656-20 Flat 20 mm
100-656-25 Flat 25 mm



100-657-10 Hollow 10 mm
100-657-15 Hollow 15 mm
100-657-20 Hollow 20 mm
100-657-25 Hollow 25 mm



100-661-18 Mini Lexer 180 mm

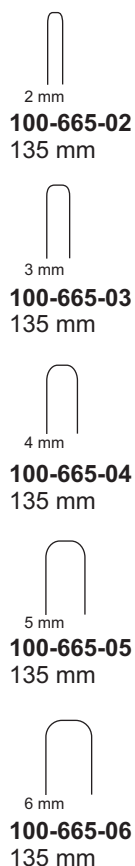


100-662-18 Mini Lexer 180 mm Hollow

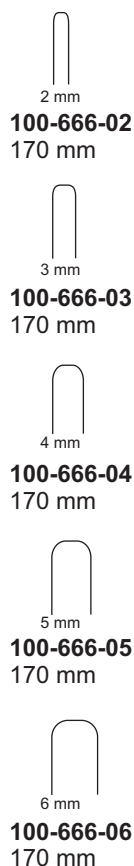
Gouges Meißeln Cinceles Sgorbie Gouges



Partsch



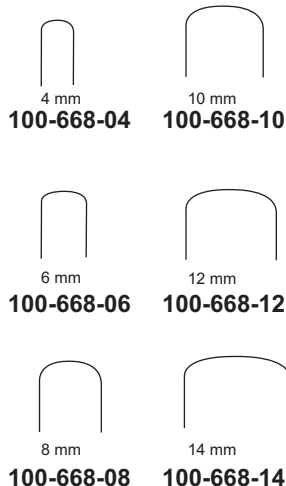
100-665-02 135 mm
100-665-03 135 mm
100-665-04 135 mm
100-665-05 135 mm
100-665-06 135 mm



100-666-02 170 mm
100-666-03 170 mm
100-666-04 170 mm
100-666-05 170 mm
100-666-06 170 mm



Alexander



100-668-04
100-668-06
100-668-08
100-668-10
100-668-12
100-668-14



Smith Peterson

100-672-06 Straight 6 mm
100-672-09 Straight 9 mm
100-672-12 Straight 12 mm
100-672-15 Straight 15 mm
100-672-20 Straight 20 mm
100-672-25 Straight 25 mm
100-672-30 Straight 30 mm
100-673-06 Curved 6 mm
100-673-09 Curved 9 mm
100-673-12 Curved 12 mm
100-673-15 Curved 15 mm
100-673-20 Curved 20 mm
100-673-25 Curved 25 mm
100-673-30 Curved 30 mm



Stille

100-675-10 Straight 10 mm
100-675-12 Straight 12 mm
100-675-15 Straight 15 mm
100-675-20 Straight 20 mm
100-675-25 Straight 25 mm
100-676-10 Curved 10 mm
100-676-12 Curved 12 mm
100-676-15 Curved 15 mm
100-676-20 Curved 20 mm
100-676-25 Curved 25 mm



100-680-05 Straight 5 mm
100-680-10 10 mm
100-680-15 15 mm



100-681-05 Curved 5 mm
100-681-10 10 mm
100-681-15 15 mm

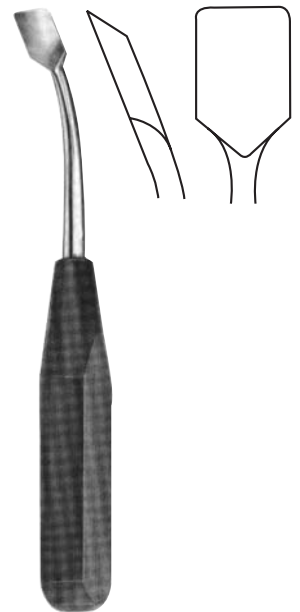
**Elevators, Raspatories
Elevatorien, Raspatorien
Elevadores, Raspadores
Elevatori, Raspatori
Releveurs / Rugines**



100-725-14
Medium straight blade
round edge, width 14 mm



100-727-14
Medium curved blade
round edge, width 14 mm



100-728-14 Medium Blade
Straight Edge, 14 mm
100-729-14 Straight 185 mm
Curved 185 mm



100-732-14
large straight blade
round edge, width 20 mm



100-735-06
Small curved blade
round edge, width 6 mm



100-740-06
Small curved blade
straight edge, width 6 mm



100-742-03
Extra small curved blade
round edge, width 3 mm

**Raspatories
Raspatorien
Raspadores
Raspatori
Rugines**



100-750-16
St. Thomas
Pointed 160 mm



100-751-16
St. Thomas
Rounded 160 mm



100-755-17
Robinson's
170 mm



100-756-13
Williger
130 mm



100-757-16
Williger
160 mm



100-759-16
Lane Serrated
160 mm



100-763-27
Lane
270 mm



100-768-22
Trethowan's
220 mm



100-770-24
Bristow's
240 mm



100-773-21
Sedillot
210 mm

**Raspatoires
Raspatorien
Raspadores
Raspatori
Rugines**



100-775-18 Langenbeck 180 mm



100-778-19 Langenbeck 190 mm



100-782-10 Lambotte 10 mm
100-782-15 Lambotte 15 mm
100-782-20 Lambotte 20 mm



100-784-14 Farabeuf



100-785-14 Farabeuf



100-788-05 5 mm
100-788-06 6 mm
100-788-07 7 mm

Bone Currettes

Knochenkürette

Cucharillas cortantes

Curette taglienti

Curettes d'os



Spratt



Fiber Handle 270 mm

Fig. 0000
100-801-40

Fig. 0
100-801-10

Fig. 3
100-801-03

Fig. 000
100-801-30

Fig. 1
100-801-01

Fig. 4
100-801-04

Fig. 00
100-801-20

Fig. 2
100-801-02

Fig. 5
100-801-05



Brun's



Scoville 250 mm

Fig. 0000
100-804-40

Fig. 0
100-804-10

Fig. 3
100-804-03

Fig. 000
100-804-30

Fig. 1
100-804-01

Fig. 4
100-804-04

Fig. 00
100-804-20

Fig. 2
100-804-02

Fig. 5
100-804-05

Fig. 6
100-804-06

100-830-00
Straight

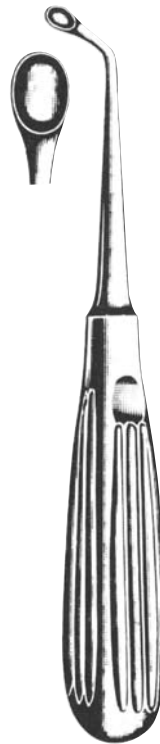
100-830-03
Down Angle

100-830-04
Up Angle

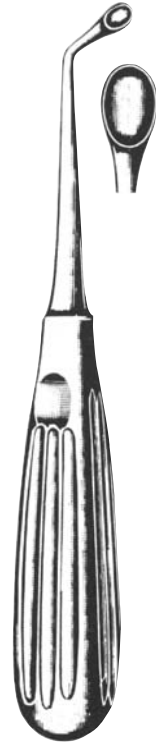
Bone Currettes
Knochenkürette
Cucharillas cortantes
Curette taglienti
Curettes d'os



100-832-36 To 100-835-60 250 mm



100-840-07 Uffenorde left 175 mm



100-850-01 Uffenorde right 175 mm



Fig.1
100-845-01

Fig.2
100-845-02

Fig.3
100-845-03

Fig.4
100-845-04

Fig.5
100-845-05

Fig.6
100-845-06

Simon 240 mm



Fig.1
100-850-01

Fig.2
100-850-02

Fig.3
100-850-03

Fig.4
100-850-04

Fig.5
100-850-05

Bruns 230 mm

Fig.6
100-850-06

Fig.7
100-850-07

Fig.8
100-850-08

Fig.9
100-850-09

Amputation & Resection Saws
Amputation & Ektomie Sägen
Sierras de Amputación y Resección
Seghe per Resezione e Amputazione
Scies d'amputation et de résection



100-870-30 Gigli Saw, stainless 30 mm
100-870-40 Gigli Saw, stainless 40 mm
100-870-50 Gigli Saw, stainless 50 mm
100-870-70 Gigli Saw, stainless 70 mm



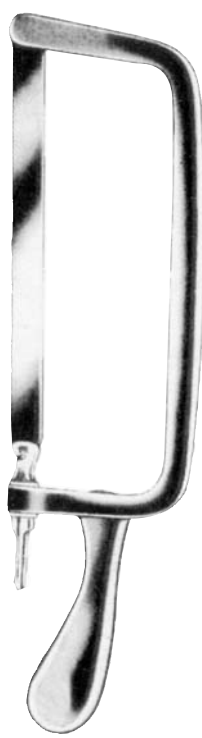
100-873-02 Gigli Handle



100-879-31 De Martel 31 cm, Saw Guide



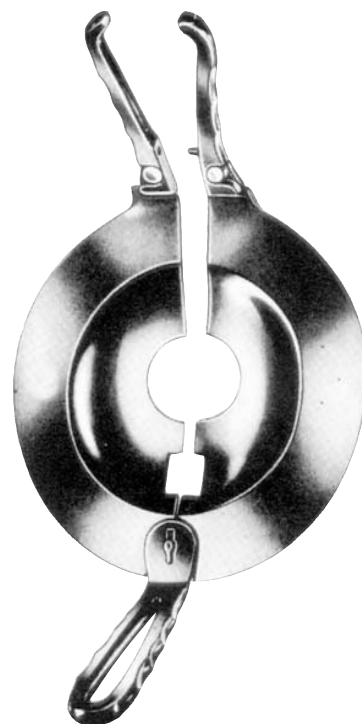
100-882-27 Charriere 27 cm
100-882-30 Charriere 30 cm



100-885-35 Charriere 35 cm



100-886-31 Satterlee 31 cm

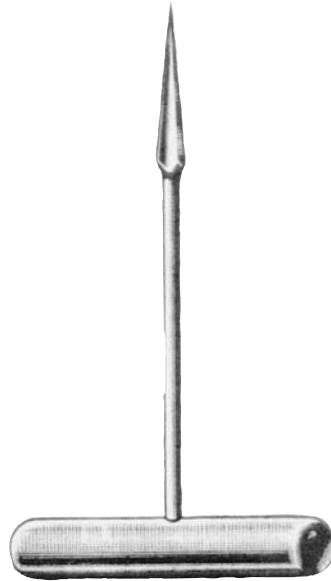


100-890-01 Percy Retractor

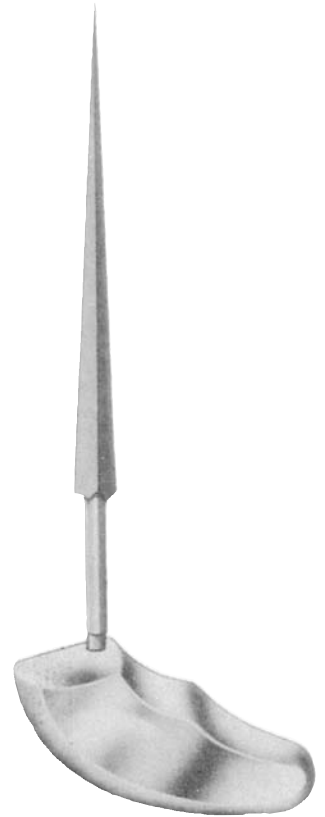
Bone Awls / Bone Files
Knochen Ahlen / Knochenfeilen
Punzones de Hueso / Limas de Hueso
Punteruoli per Ossa / Lime per Ossa
Trépans en pointe / Lime à os



100-915-16 160 mm



100-917-15 150 mm



100-922-16 Perthes, 160 mm
100-922-22 Perthes, 220 mm

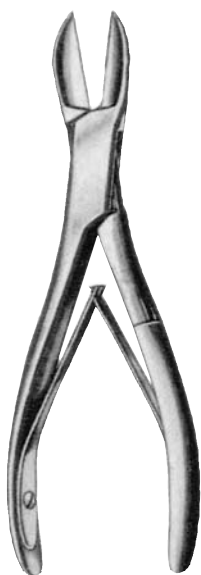


100-935-38 Putti, 280 mm



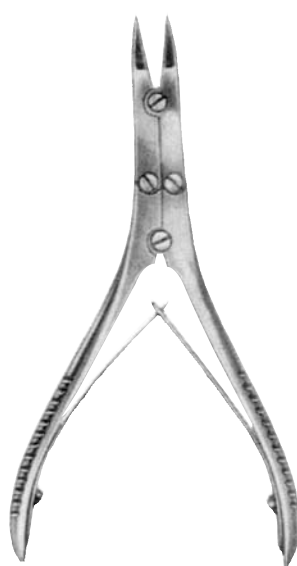
100-938-30 Putti, 300 mm

Bone Cutting Forceps
Knochensplitterzange
Cizallas para Huesos
Cesoie per Ossa
Pincers de découpe d'os



Liston Bone Cutting Forceps
102-010-14 140 mm straight
102-010-17 170 mm straight
102-010-19 190 mm straight
102-010-22 220 mm straight

102-011-14 140 mm curved
102-011-17 170 mm curved
102-011-19 190 mm curved
102-011-22 220 mm curved



102-020-15 Bohler 150 mm straight
102-021-15 Bohler 150 mm curved



102-025-19 Ruskin-Liston 190 mm straight
102-026-19 Ruskin-Liston 190 mm curved



102-030-27 Stille Horsley 270 mm

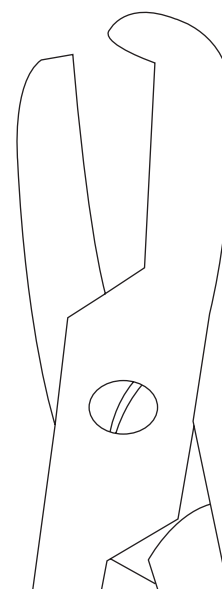
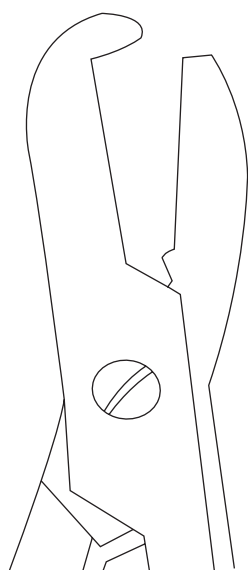
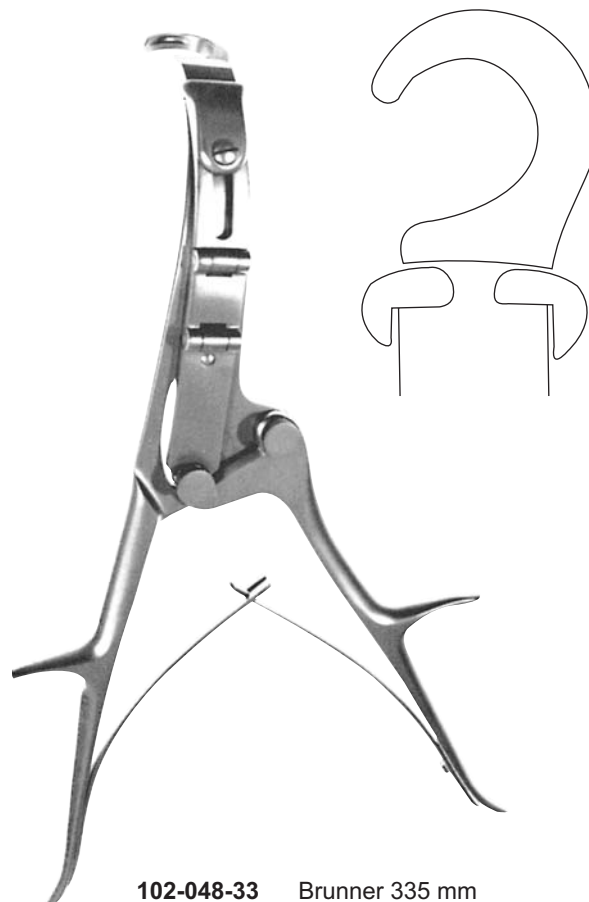


102-033-27 Stille Semb 270 mm



102-037-27 Stille-Liston 270 mm straight
102-038-27 Stille-Liston 270 mm curved

Rib / Sternum Shears
Rippen / Brustbein Schere
Cizallas para Esternón / Costillas
Cesoie per Costole / Sterno
Cisailles pour sternum et côtes



Rib / Sternum Shears
Rippen / Brustbein Schere
Cizallas para Esternón / Costillas
Cesoie per Costole / Sterno
Cisailles pour sternum et côtes



102-060-24 Sauerbruch
For Children, 240 mm
102-060-27 For Adults, 270 mm



102-063-17 Schuardt 170 mm



102-065-37 Sauerbruch-frey for the first rib 370 mm



102-070-21 Schumacher sternum shears 210 mm

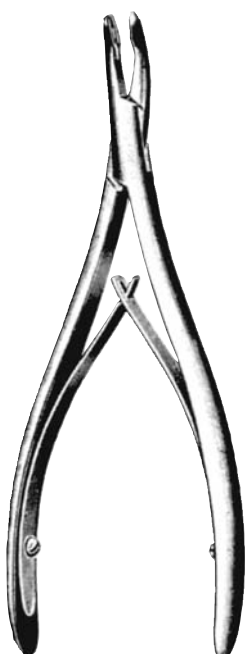
**Bone Rongeurs
Knochenfasszangen
Gubias
Sgorbie
Pinces Rongeuses d'os**



102-205-17 Stellbrink
Synovectomy Rongeur 175 mm



102-207-17 Luer 170 mm straight
102-208-17 Luer 170 mm curved



102-215-19 Lempert 190 mm straight
102-216-19 Lempert 190 mm curved



102-219-03 Beyer Rongeur, curved

**Bone Rongeurs
Knochenfasszangen
Gubias
Sgorbie
Pinces Rongeuses d'os**



102-225-15 Bohler Rongeur 150 mm straight
102-226-15 Bohler Rongeur 150 mm curved



102-231-07 Ruskin Rongeur, curved



102-235-19 Zaufal Jansen 190 mm curved



102-243-23 Stille Luer 230 mm straight
102-244-23 Stille Luer 230 mm curved

**Bone Rongeurs
Knochenfasszangen
Gubias
Sgorbie
Pinces Rongeuses d'os**

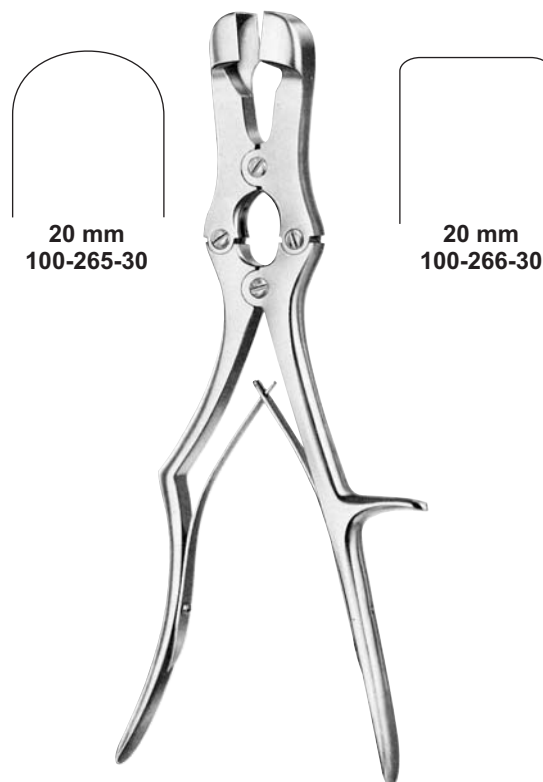


- 102-250-01** Leksell- Stille 240 mm 3 x 16 mm cup curved
- 102-250-04** Leksell- Stille 240 mm 3 x 16 mm cup fully curved
- 102-250-07** Leksell- Stille 240 mm 5 x 16 mm cup curved
- 102-250-12** Leksell- Stille 240 mm 8 x 16 mm cup curved
- 102-250-17** Leksell- Stille 240 mm 5 x 16 mm cup fully curved
- 102-250-23** Leksell- Stille 240 mm 8 x 16 mm cup fully curved

102-253-24 Stille Ruskin 240 mm curved



102-260-22 Semb 225 mm



102-265-30 Sauerbruch 310 mm Round
102-266-30 Straight

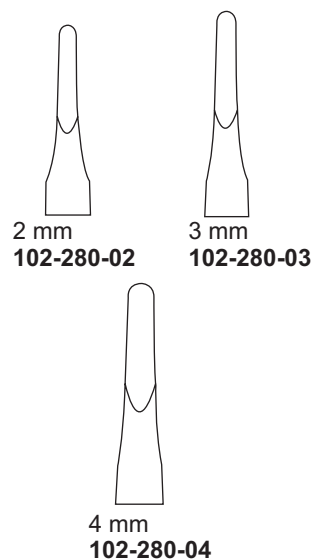
Bone Rongeurs
Knochenfasszangen
Gubias
Sgorbie
Pinces Rongeuses d'os



102-273-23 Stille, Angular, 230 mm



102-280-02 Echlin, 230 mm
102-280-03 2 mm
102-280-04 3 mm
102-280-04 4 mm



102-287-03 Leksell 220 mm
102-287-04 3 mm
102-287-08 5 mm
102-287-08 8 mm

Kuntscher Instrumentation Set
Kuntscher Instrumenten Set
Set de Instrumentos de Kuntscher
Set Strumenti Kuntscher
Jeu d'outils Kuntscher



D-112-00	Kuntscher Instrumentation Set
196-075-30	Container
196-078-30	Tray
112-620-08	Diamond Point Awl. Femur 10 mm
112-625-15	Reamer
112-640-03	Slotted Hammer
112-645-07	Slotted Nail Driver
112-647-08	Nail Driver 6 - 8 mm
112-647-12	Nail Driver 9 - 12 mm
112-647-20	Nail Driver 13 - 20 mm
112-675-00	Nail Extractor with 2 hooks & Sliding Mallet
112-200-26	Measuring Gauge
100-602-50	Mallet 500 grams

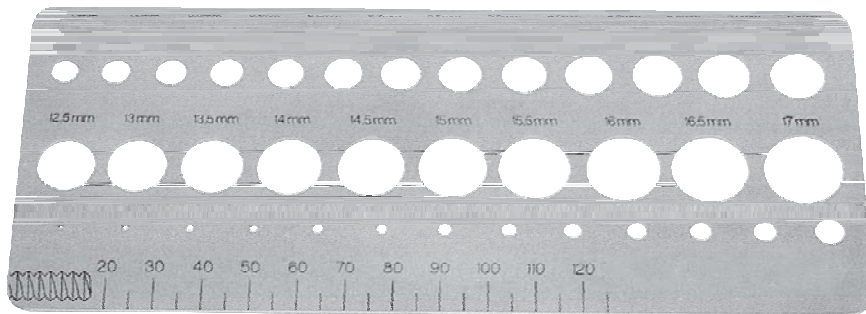
Intramedullary Instruments For Nails

intramedulläre Instrumente für Nägel

Instrumentos Intramedulares para Clavos

Strumenti Endomidollari per Chiodi

Outils intramédullaires pour clous



112-200-26 Measuring Gauge for Nails



112-224-90 Guide Rod 2.4 mm, length 90 cm

112-230-90 Guide Rod 3.0 mm, length 90 cm



112-320-90 Guide Rod 2.0 mm, length 90 cm

112-330-90 Guide Rod 3.0 mm, length 90 cm



Guide Pin for Küntscher Nails

112-530-60 Guide Pin 3.0 mm Ø 60 cm long

112-535-60 Guide Pin 3.5 mm Ø 60 cm long

112-540-60 Guide Pin 4.0 mm Ø 60 cm long

112-550-60 Guide Pin 5.0 mm Ø 60 cm long

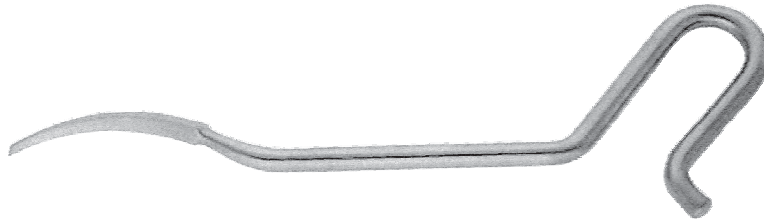


Reamer for Küntscher Nails

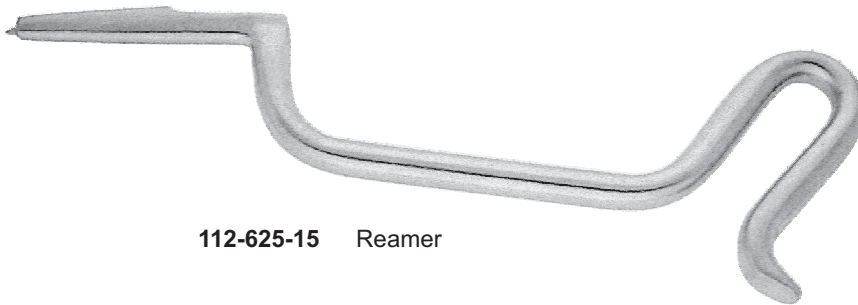
Ø 6,0 mm 7,0 mm 8,0 mm 9,0 mm 10,0 mm 11,0 mm 12,0 mm 13,0 mm 14,0 mm
112-600-06 112-600-07 112-600-08 112-600-09 112-600-10 112-600-11 112-600-12 112-600-13 112-600-14

Ø 15,0 mm 16,0 mm 17,0 mm 18,5 mm 19,0 mm 20,0 mm
112-600-15 112-600-16 112-600-17 112-600-18 112-600-19 112-600-20

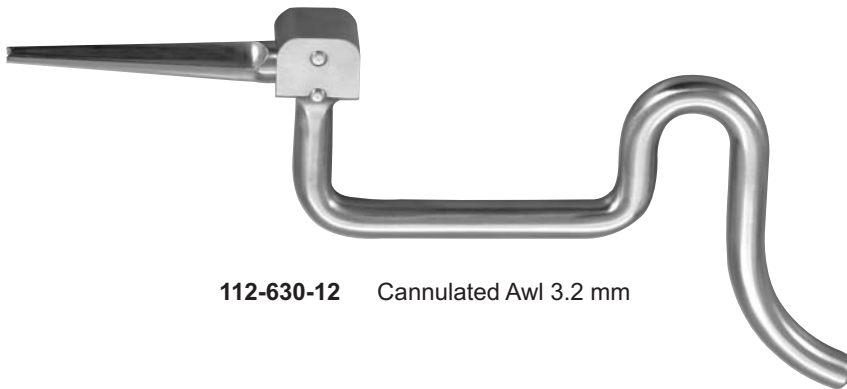
Instruments for Intramedullary Nailing
intramedulläre Instrumente zur Marknagelung
Instrumentos Intramedulares para Enclavado
Strumenti Endomidollari per Inchioldamento
Outils intramédullaires pour clouage



112-620-08 Diamond Point Awl. Tibia 8 mm
112-620-10 Diamond Point Awl. Femur 10 mm



112-625-15 Reamer



112-630-12 Cannulated Awl 3.2 mm



112-640-03 Slotted Hammer



112-642-10 Slotted Hammer 14 mm

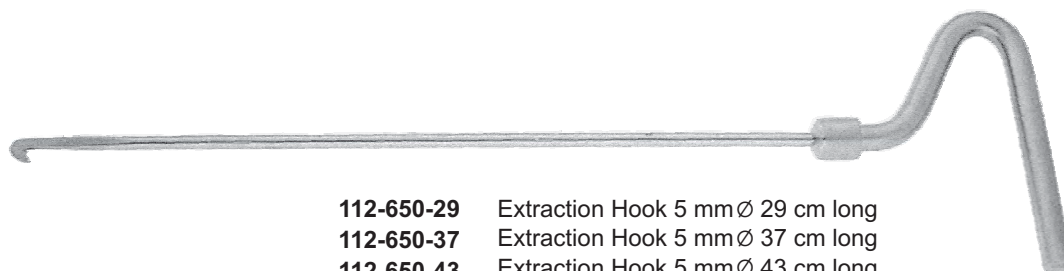
Instruments for Intramedullary Nailing **Instrumente für intramedulläre Marknagelung** **Instrumentos para Enclavado Intramedular** **Strumenti per Inchiodamento Endomidollare** **Outils pour enclouage intramédullaire**



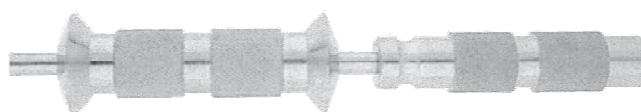
112-645-07 Slotted Nail Driver



- 112-647-08** Nail Driver for Nails 6 - 8 Ø
- 112-647-12** Nail Driver for Nails 9 - 12 Ø
- 112-647-20** Nail Driver for Nails 13 - 20 Ø



- 112-650-29** Extraction Hook 5 mm Ø 29 cm long
- 112-650-37** Extraction Hook 5 mm Ø 37 cm long
- 112-650-43** Extraction Hook 5 mm Ø 43 cm long
- 112-650-51** Extraction Hook 5 mm Ø 51 cm long



112-675-00 Nail Extractor with 2 Hooks and Sliding Mallet



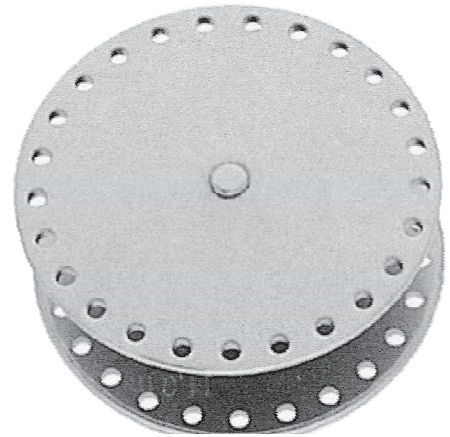
112-675-05 Small Hook only



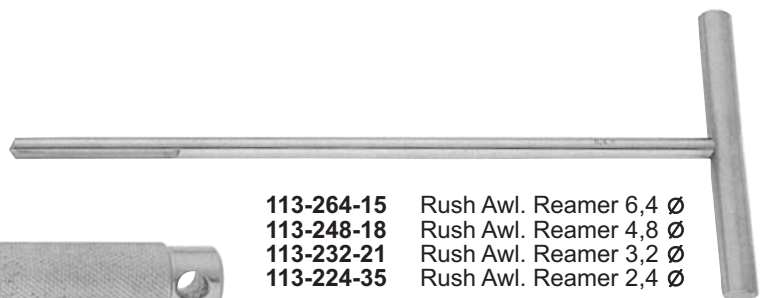
112-675-10 Large Hook only

Round Intramedullary Pins
Runde Intramedulläre Nadel
Pernos Intramedulares Redondos
Perni Intramidollari Rotondi
Raccords intramédullaires ronds

- 113-164-00** Rack for Rush Medullary Set pin 6,4 Ø
113-148-00 Rack for Rush Medullary Set pin 4,8 Ø
113-132-00 Rack for Rush Medullary Set pin 3,2 Ø
113-124-00 Rack for Rush Medullary Set pin 2,4 Ø



- 113-364-08** Driver and Extractor 6,4 mm Ø
113-348-12 Driver and Extractor 4,8 mm Ø
113-332-16 Driver and Extractor 3,2 mm Ø
113-324-20 Driver and Extractor 2,4 mm Ø



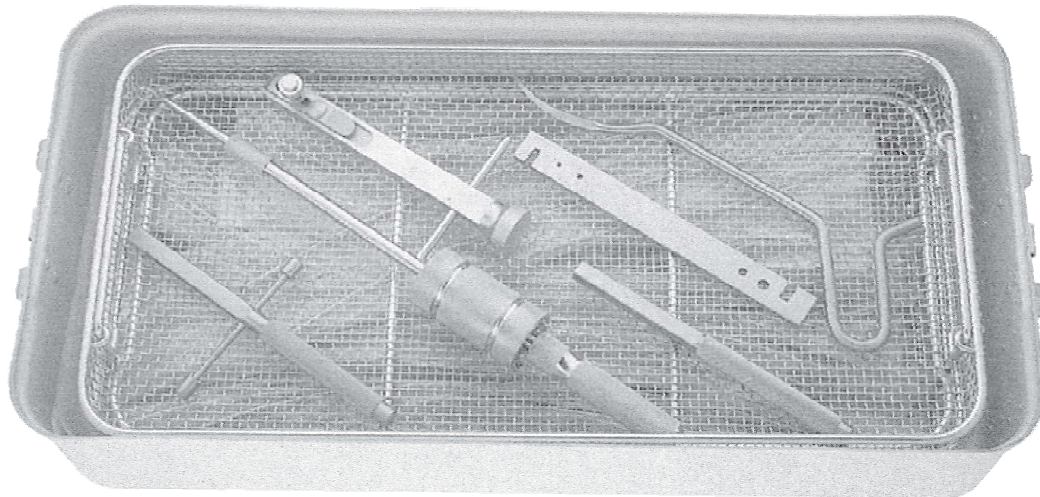
- 113-264-15** Rush Awl. Reamer 6,4 Ø
113-248-18 Rush Awl. Reamer 4,8 Ø
113-232-21 Rush Awl. Reamer 3,2 Ø
113-224-35 Rush Awl. Reamer 2,4 Ø



- 113-400-02** Bender

4.5 mm Flexible Medullary Nails
4,5 mm flexible Marknägel
Clavos Intramedulares Flexibles de 4,5 mm
Chiodi Endomidollari Flessibili da 4,5 mm
Clous médullaires flexibles 4,5mm

Complete Set of 4.5 mm ø

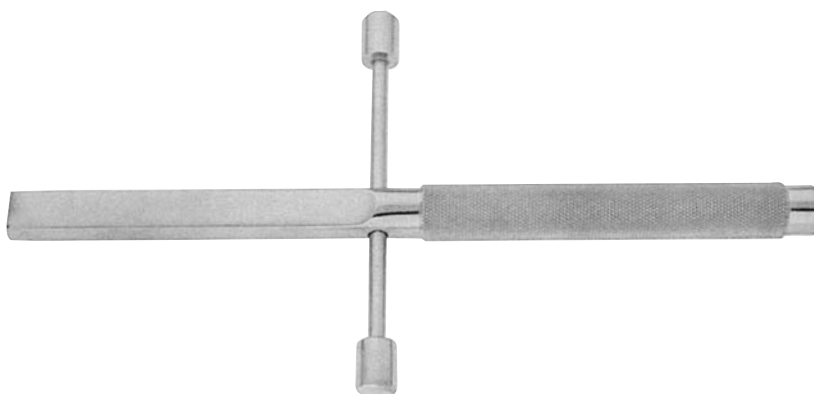


D-113-05	Ender Nail Set
196-078-00	Container
196-078-00	Tray- upper
196-078-00	Tray - Lower
113-545-30	3 Flexible Medullary Nails 300 mm
113-545-31	3 Flexible Medullary Nails 310 mm
113-545-32	3 Flexible Medullary Nails 320 mm
113-545-33	3 Flexible Medullary Nails 330 mm
113-545-34	3 Flexible Medullary Nails 340 mm
113-545-35	3 Flexible Medullary Nails 350 mm
113-545-36	3 Flexible Medullary Nails 360 mm
113-545-37	3 Flexible Medullary Nails 370 mm
113-545-38	3 Flexible Medullary Nails 380 mm
113-545-39	3 Flexible Medullary Nails 390 mm
113-545-40	3 Flexible Medullary Nails 400 mm
113-545-41	3 Flexible Medullary Nails 410 mm
113-545-42	3 Flexible Medullary Nails 420 mm
113-545-43	3 Flexible Medullary Nails 430 mm
113-545-44	3 Flexible Medullary Nails 440 mm
113-545-45	3 Flexible Medullary Nails 450 mm
113-545-46	3 Flexible Medullary Nails 460 mm
113-545-47	3 Flexible Medullary Nails 470 mm
113-545-48	3 Flexible Medullary Nails 480 mm
113-545-49	3 Flexible Medullary Nails 490 mm
113-570-25	1 Nail Insertor
113-580-12	1 Impactor
113-400-02	1 Bender
113-590-35	1 Impactor- Extractor
113-592-40	1 Extractor
112-620-10	1 Awl, Cortical, 10 mm

Flexible Medullary Nails / Instruments
Flexible Marknägel / Instrumente
Clavos / Instrumentos Medulares Flexibles
Chiodi / Strumenti Midollari Flessibili
Clous / Outils médullaires flexibles



113-570-25 Nail Inserter



113-580-12 Impactor

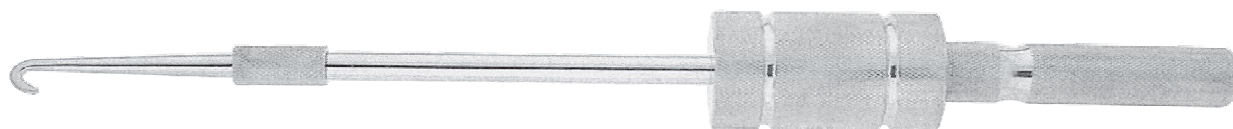


113-400-02 Bender

Flexible Medullary Nail Instruments
Flexible Marknägel Instrumente
Instrumentos por Clavos Medulares Flexibles
Strumenti per Chiodi Midollari Flessibili
Outils d'enclouage médullaire flexibles



113-590-35 Impactor-Extractor



113-592-40 Extractor



112-620-10 Awl, Cortical, 10 mm

Interlocking Nail Instruments Set
Verriegelungsnagel Instrumente Set
Set de Instrumentos para Clavos Entrelazados
Set Strumenti per Chiodi Bloccati
Jeu d'outils d'enclouage de maintien



D-114-005 Instrument Set for Interlocking Nail System
196-075-00 Container
196-080-03 Tray - Set of 3

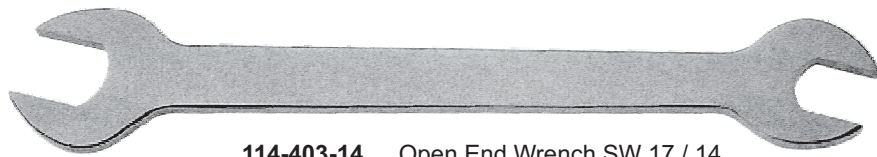
114-400-07	Universal Socket Wrench
114-425-64	Hex Driver for 6,4 mm Screws (Cannulated Hex Driver)
114-425-45	Hex Driver for 5,0 mm Screws (Cannulated Hex Driver)
114-448-12	Medullary Exchange Tube
114-422-10	Depth Gauge
114-452-27	Twist Drill, 2,7 mm, Length 305 mm
114-452-35	Twist Drill, 3,5 mm, Length 305 mm
114-452-40	Twist Drill, 4,0 mm, Length 305 mm
114-452-48	Twist Drill, 4,8 mm, Length 305 mm
114-453-24	Trocar 4,0 mm x 240 mm
114-454-32	Tip Threaded Guide Pin, 3,2 mm x 305 mm
114-455-20	Guide Rod, 2,0 mm x 305 mm
114-403-14	Open End Wrench SW 17 / 19
114-417-04	Percutaneous Knife Handle
114-465-88	Reamer / Nail / screw Template
114-468-90	Nail Length Gauge
114-435-03	Screw Length Gauge
114-409-05	Supine Driver
100-040-01	Reamer Guide Rod Holder
114-438-02	Tibial Proximal Drill Guide
114-432-01	Skin Protector
114-428-04	Curved Awl 13 mm
114-460-80	Dill Sleeve (long) Ø 8.0 mm
114-460-40	Dill Sleeve (short) Ø 8.0 mm
114-461-21	Dill Sleeve 2.1 mm
114-461-48	Drill Sleeve 4.8 mm
114-461-40	Drill Sleeve 4.0 mm
114-461-35	Drill Sleeve 3.5 mm
114-461-32	Drill Sleeve 3.2 mm
114-442-03	Proximal Drill Guide for Femoral Nails
114-642-10	Slotted Hammer
114-406-02	Slide Hammer
114-444-23	Tibial Extractor Bolt
114-412-01	Driver Extractor Tube

**Instruments for Interlocking Nails
Instrumente für Verriegelungsnägel
Instrumentos para Clavos Entrelazados
Strumenti per Chiodi Bloccati
Outils pour clous de maintien**

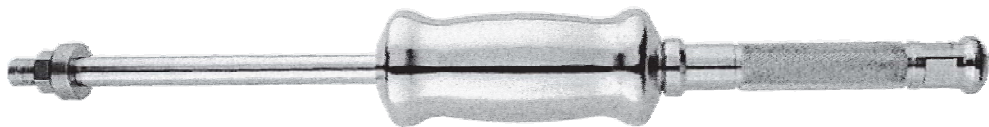
Tray No.1



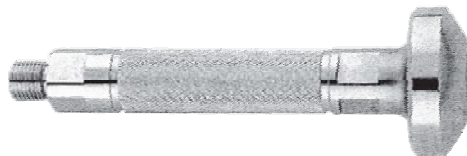
114-400-07 Universal Socket Wrench



114-403-14 Open End Wrench SW 17 / 14



114-406-02 Slide Hammer



114-409-05 Supine Driver



114-412-01 Driver / Extractor Tube



112-642-10 Slotted Hammer 14 mm



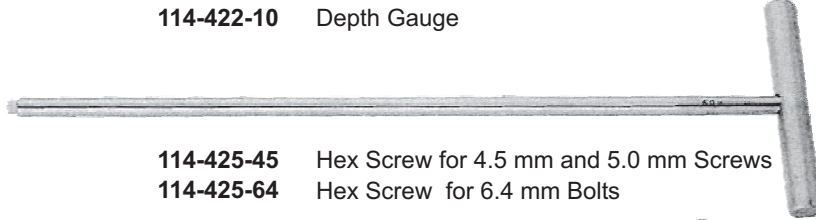
114-417-04 Percutaneous Knife Handle

Instruments for Interlocking Nails
Instrumente für Verriegelungsnägel
Instrumentos para Clavos Entrelazados
Strumenti per Chiodi Bloccati
Outils pour clous de maintien

Tray No.2

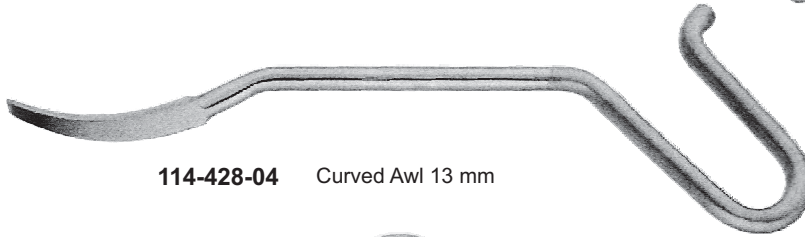


114-422-10 Depth Gauge

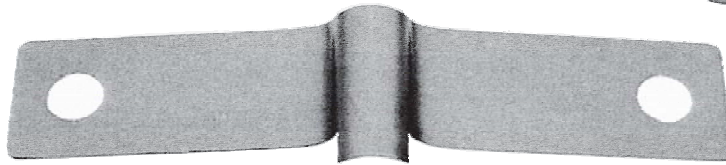


114-425-45 Hex Screw for 4.5 mm and 5.0 mm Screws

114-425-64 Hex Screw for 6.4 mm Bolts



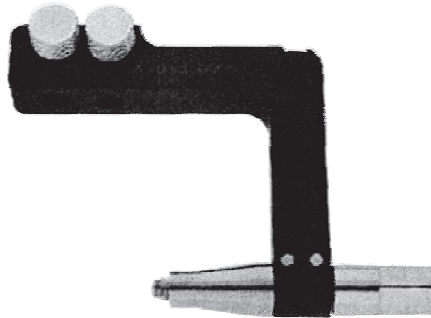
114-428-04 Curved Awl 13 mm



114-432-01 Skin Protector



114-435-03 Screw Length Gauge



114-438-02 Proximal Drill Guide for Tibial Nails



114-442-03 Proximal Drill Guide for Femoral Nails



114-444-23 Tibial Extractor Bolt

Instruments for Interlocking Nails **Instrumente für Verriegelungsnägel** **Instrumentos para Clavos Entrelazados** **Strumenti per Chiodi Bloccati** **Outils pour clous de maintien**

Tray No.3



114-448-12 Medullary Exchange Tube



Twist Drills Length 305 mm

Cat. No.	Ø mm
114-452-27	2,7
114-452-35	3,5
114-452-40	4,0
114-452-48	4,8



114-453-24 Trocar Ø4.0 mm x 240



114-454-32 Tip Threaded Guide Pin 3.2 mm x 305 mm (recommended)



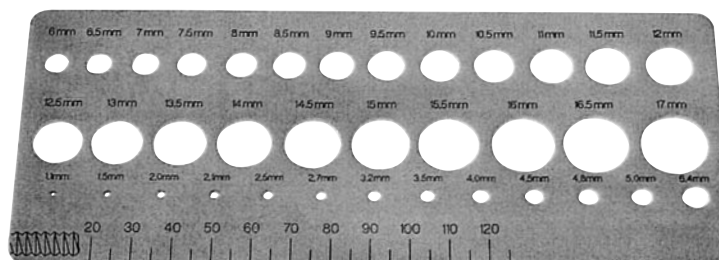
114-455-20 Trocar Ø4.0 mm x 240



114-460-80 Green Drill Sleeve Ø 8.0 mm



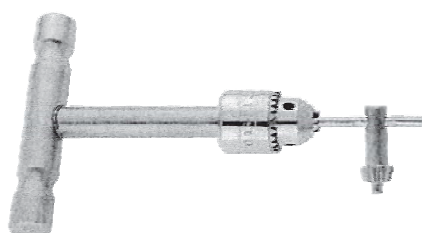
114-461-21 Drill Sleeve Ø 2.1 mm
114-461-32 Drill Sleeve Ø 3.2 mm
114-461-35 Drill Sleeve Ø 3.5 mm
114-461-40 Drill Sleeve Ø 4.0 mm
114-461-48 Drill Sleeve Ø 4.8 mm



114-465-88 Reamer / Nail and Screw Template



114-468-90 Nail Length Gauge



100-040-01 Reamer Guide Rod Holder

Instruments for Interlocking Nails
Instrumente für Verriegelungsnägel
Instrumentos para Clavos Entrelazados
Strumenti per Chiodi Bloccati
Outils pour clous de maintien



114-472-05 Internal Fracture Alignment Device



Drill Bits Cannulated hole $\varnothing 2,1$ mm Length 150 mm

Cat. No.	$\varnothing$ mm
114-475-35	3.5
114-475-40	4.0
114-475-48	4.8



Drill Bits Length 150 mm

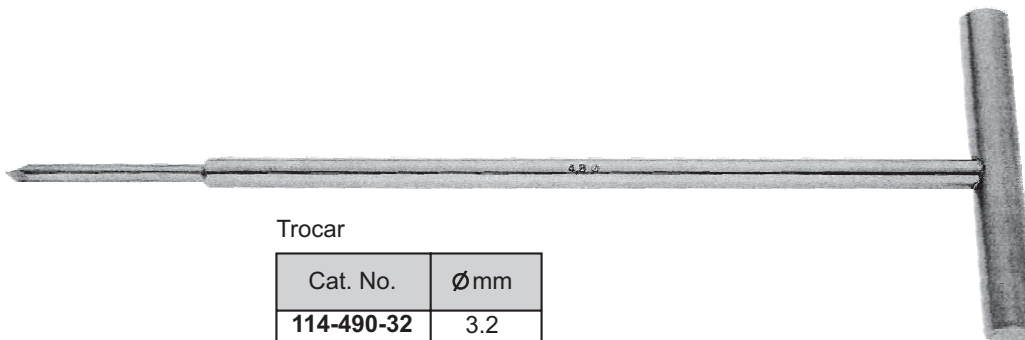
Cat. No.	$\varnothing$ mm
114-476-27	2.7
114-476-35	3.5
114-476-40	4.0
114-476-48	4.8



114-480-24 Guide Rod for IM Nail, $\varnothing 2,4$ mm Length 900 mm
114-480-32 Guide Rod for IM Nail, $\varnothing 3,2$ mm Length 900 mm



114-482-30 Guide Rod for Reamer, $\varnothing 3,0$ mm Length 900 mm with $\varnothing 4,0$ mm Spade Tip



Trocar

Cat. No.	$\varnothing$ mm
114-490-32	3.2
114-490-40	4.0
114-490-48	4.8
114-490-80	8.0

Instruments for Humeral Interlocking Nails
Instrumente für Humerus Verriegelungsnägel
Instrumentos para Clavos Entrelazados Humerales
Strumenti per Chiodi Omerali Bloccati
Outils d'enclouage de maintien de l'humérus

Humeral interlocking Instrumentation
(Only for Humerus - not included in Basic Set)



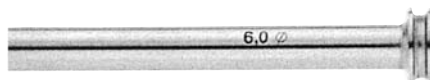
114-525-02 Humeral Proximal Drill Guide



114-532-55 Adapter for Nail Driver and extractor (1-19220)



114-545-27 Humeral Drill Sleeve 2,7 mm short



114-546-60 Humeral Drill Sleeve 6,0 mm short

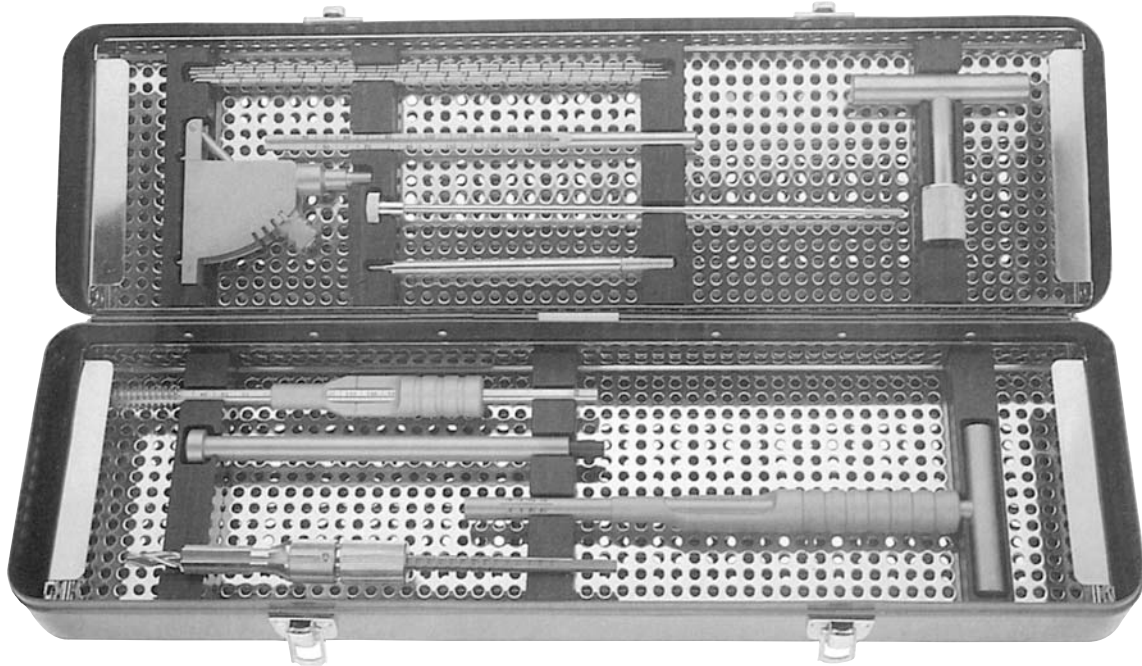


114-548-27 Drill Bit Dia. 2,7 Length 150 mm



114-560-16 Nail Extractor 165 mm
with Longitudinal Groove
(for Intramedullary Gliding Nails)

Instrument Set for Dynamic Hip Screw
Instrumente für dynamische Zuckerhutschrauben
Set de Instrumentos para Tornillos Dinámicos de Cadera
Set di Strumenti per Viti Dinamiche per Anca
Jeu d'outils de vissage dynamique de la hanche



D-118-03 Instrument Set for Dynamic Hip Screws Plates
196-045-17 Aluminium Case
196-118-07 Upper Tray
196-118-08 Lower Tray

118-525-10	Guide Pin Ø 2.5 mm length 230	(10 units)
118-533-04	Drill Guide Adjustable	
118-552-04	Measuring Gauge	
118-556-01	Triple Reamer, complete	
118-560-07	Tap with Sleeve	
118-561-02	Guide Sleeve for Tapping	
118-581-02	Guide Sleeve, long for T-Handle	
118-570-01	Guide Shaft for Insertion of Coupling Screws	
118-573-02	Guide Shaft	
118-577-03	Coupling Screw for DHS.	
118-580-18	Wrench	
118-585-20	Impactor	
118-530-22	T-Handle	

Instruments for DHS / DCS

Instrumente für DHS / DCS

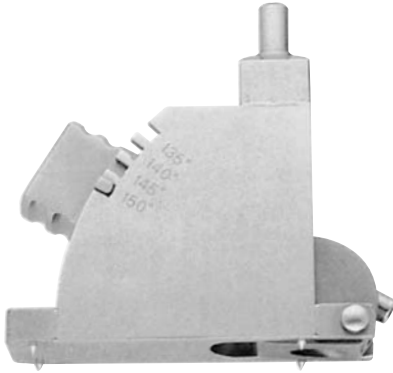
Instrumentos para Tornillos Dinámicos de Cadera / Condilares

Strumenti per Viti Dinamiche per Anca / Condilari

Outils pour DHS / DCS



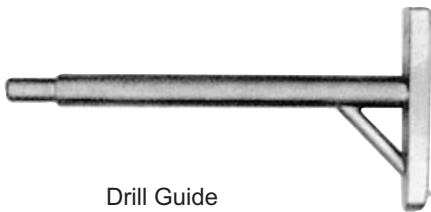
118-525-10 Calibrated Threaded Guide Pin
Ø 2.5 mm 230 mm length, 10 mm Thread



118-533-04 Drill Guide adjustable
to 135° / 140° / 145° / 150°



118-530-22 T-Handle



Drill Guide

118-535-01 135°
118-540-03 140°
118-545-05 145°
118-545-08 150°



118-548-95 Drill Guide



118-552-04 Measuring Gauge



118-556-01 Triple Reamer complete DHS
118-557-02 Triple Reamer complete DCS



118-560-07 Tap



118-561-02 Guide Sleeve, short, for tapping

Instruments for DHS / DCS
Instrumente für DHS / DCS
Instrumentos para Tornillos Dinámicos de Cadera / Condilares
Strumenti per Viti Dinamiche per Anca / Condilari
Outils pour DHS / DCS



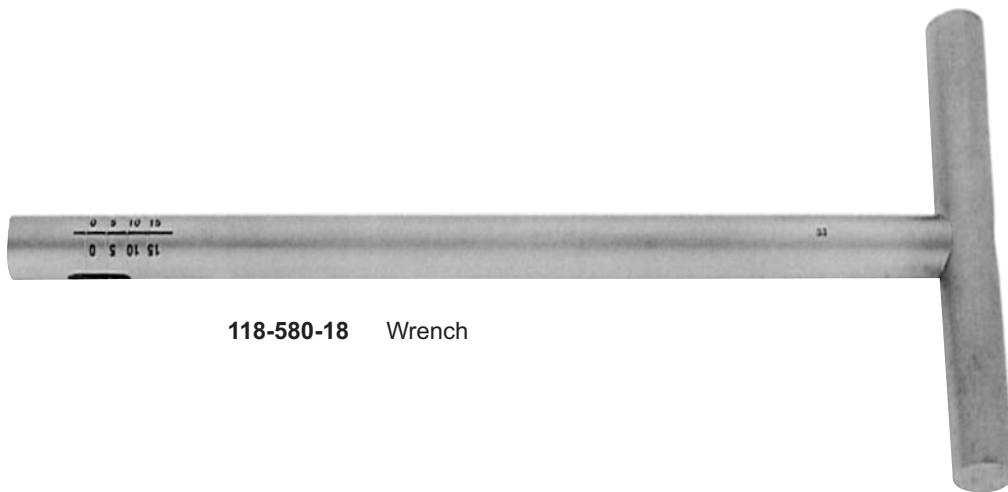
118-570-01 Guide Shaft for Insertion of Coupling Screws



118-573-02 Guide Shaft



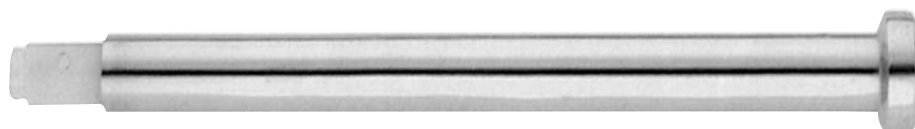
118-577-03 Coupling Screw for Femoral Dynamic Hip Screw



118-580-18 Wrench



118-581-02 Guide Sleeve, long, for screwing in of the lag screws

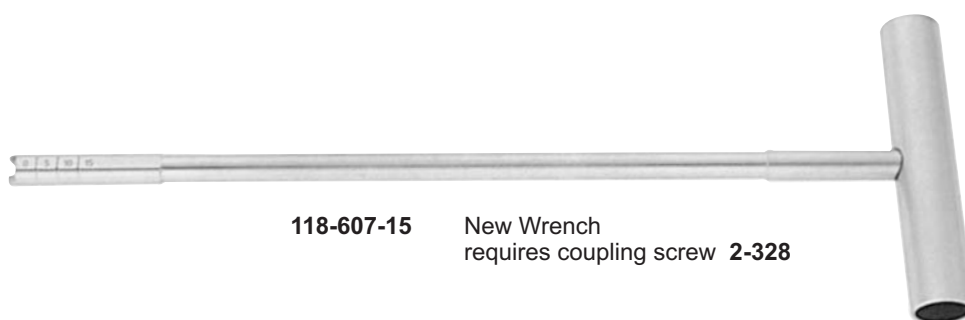


118-585-20 Impactor

New Instruments for DHS / DCS
Neue Instrumente für DHS / DCS
Nuevos Instrumentos para Tornillos Dinámicos de Cadera / Condilares
Nuovi Strumenti per Viti Dinamiche per Anca / Condilari
Nouveaux outils pour DHS / DCS



118-602-13 New Guide Sleeve



118-607-15 New Wrench
requires coupling screw **2-328**

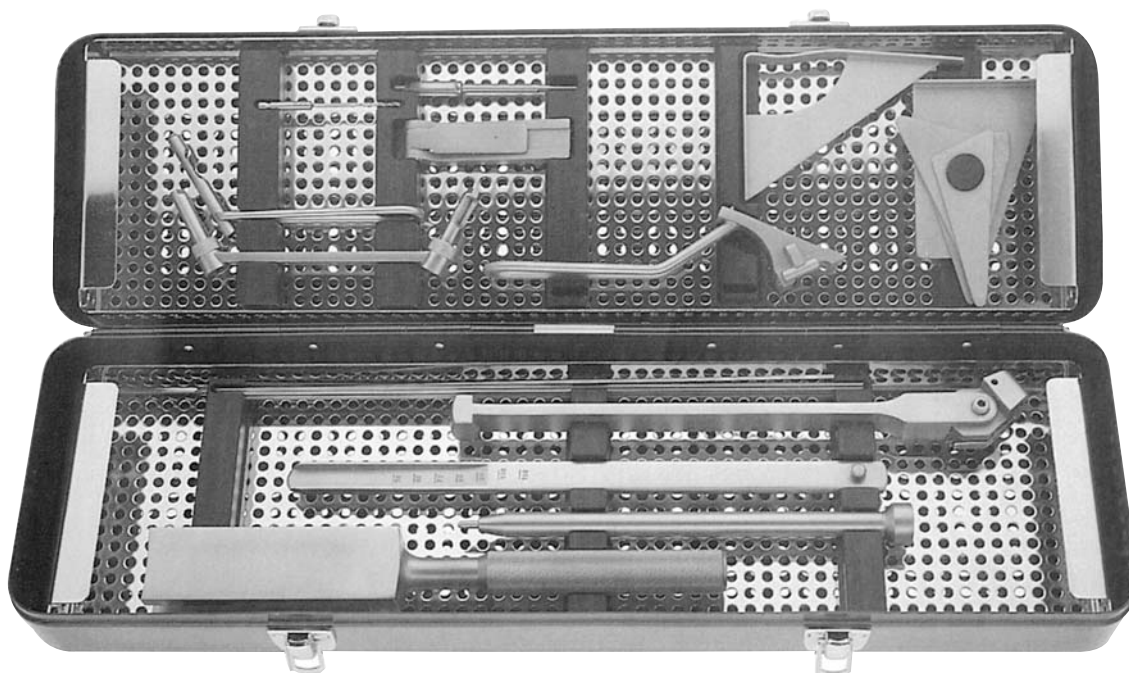


118-612-28 New Coupling Screws



118-625-19 New Impactor

Instrument Set for Angled Plates
Instrumente Set für Winkelplatten
Set de Instrumentos para Placas Angulares
Set di Strumenti per Placche Angolari
Jeu d'outils pour plaques inclinées



D-119-00 Instrument Set for Angled Plates
196-045-17 Aluminium Case
196-119-01 Upper Tray
196-119-02 Lower Tray

119-530-02	Triple Drill Guide, fixed angle 130°
100-118-32	Drill Guide round hole plates, 3.2 mm (long)
119-500-06	Reamer with end for quick coupling
119-596-95	Chisel Guide, adjustable angle
119-550-06	Seating Chisel
119-506-07	Insert-Extractor
112-642-10	Slotted Hammer
119-527-01	Impactor
119-516-04	Triangular Positioning Plates 90° / 50° / 40°
119-514-07	Triangular Positioning Plate 80° / 70° / 30°
119-512-06	Triangular Positioning Plate 100° / 60° / 20°
119-510-07	Quadrangular Positioning Plate 110° / 90° / 90° / 70°
119-520-03	Condylar Plate Guide
119-522-32	Neutral and Load Hip Drill Guide, 3.2 mm long
130-031-20	Kirschner Wire ø 2.0 mm, 310 mm long, 10 pieces
100-003-20	Drill Bit ø 2.0 mm

Instruments for Angled Blade Plates

Instrumente für Klingen Winkelplatten

Instrumentos para Hoja Placas Angulares

Strumenti per Lame-Placche Angolari

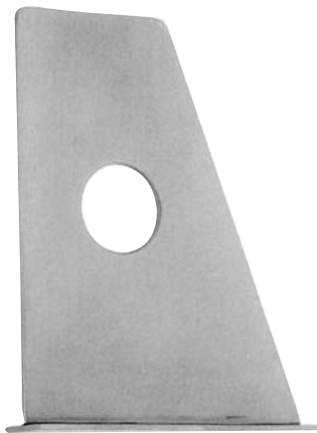
Outil pour lame-plaque inclinée



119-500-06 Reamer with end for quick coupling



119-506-07 Inserter-Extractor



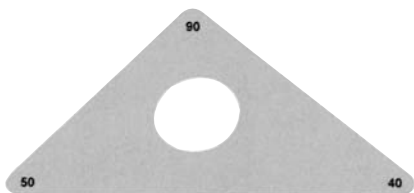
119-510-07 Quadrangular Positioning Plate $110^{\circ}/90^{\circ}/90^{\circ}/70^{\circ}$



119-512-06 Triangular Positioning Plate $100^{\circ}/60^{\circ}/20^{\circ}$



119-514-07 Triangular Positioning Plate $80^{\circ}/70^{\circ}/30^{\circ}$



119-516-04 Triangular Positioning Plate $90^{\circ}/50^{\circ}/40^{\circ}$



119-520-03 Condylar Plate Guide



119-522-32 Neutral and Load Hip Drill Guide, 3.2 mm long

Instruments for Angled Blade Plates
Instrumente für Klingen Winkelplatten
Instrumentos para Hoja Placas Angulares
Strumenti per Lame-Placche Angolari
Outil pour lame-plaque inclinée



119-527-01 Impactor



119-530-02 Triple Drill Guide with fixed angle 130°



119-550-06 Seating Chisel



100-118-32 Drill Guide round hole plates, long

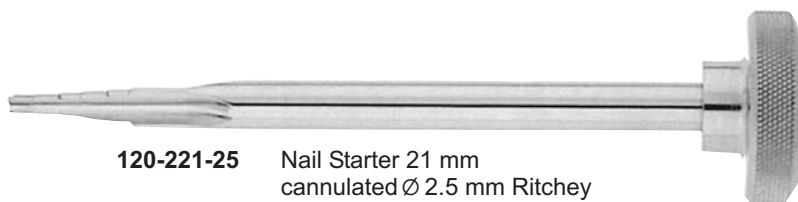


119-596-95 Chisel Guide, adjustable angle



112-642-10 Slotted Hammer 14 mm

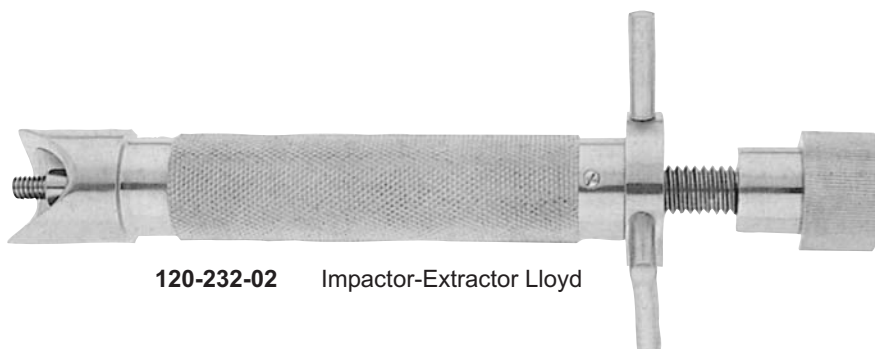
Instruments For Smith Petreson Nails / Mc. Laughlin Plates
Instrumente für Smith Petreson Nägel / Mc. Laughlin Platten
Instrumentos para Clavos Smith / Petreson / Placas Mc. Laughlin
Strumenti per Chiodi Smith Petreson / Placche Mc. Laughlin
Outils pour les clous de Smith-Petersen / Plaques de Mc. Laughlin



120-221-25 Nail Starter 21 mm
cannulated Ø 2.5 mm Ritchey



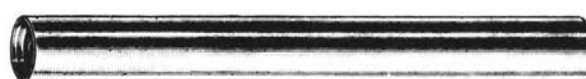
120-225-26 Nail Starter



120-232-02 Impactor-Extractor Lloyd



120-238-07 Impactor-Extractor



120-241-14 Nail Driver

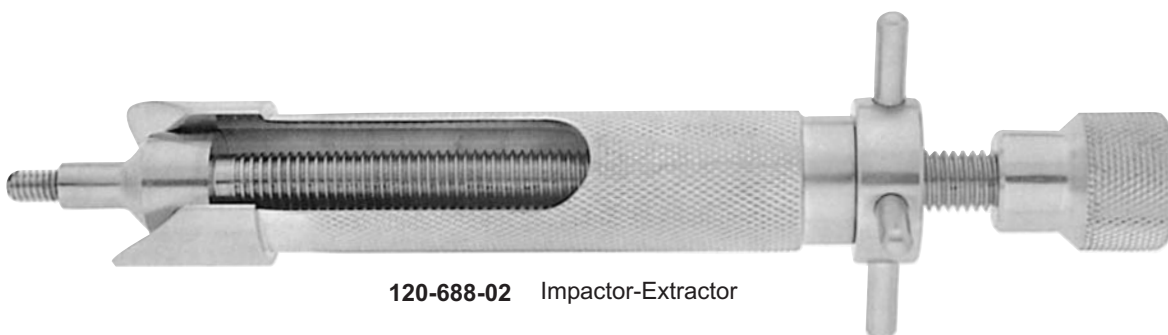
Jewett Nail Plate / Instruments
Jewett Nagelplatte / Instrumente
Placas / Instrumentos para Clavos Jewett
Placche / Strumenti per Chiodi Jewett
Plaque / Outils pour clous de Jewett



120-225-26 Nail Starter



120-628-18 T - Wrench for Pins



120-688-02 Impactor-Extractor

Positioning Plates
Positionierungsplatte
Placas de Posicionamiento
Placche di Posizionamento
Plaques de placement



119-650-03 Seating Chisel

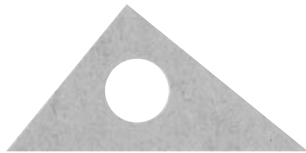


119-655-02 Seating Chisel

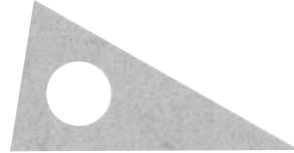


119-668-40 Insert for Adolescent and Child Hip Plates

Positioning Plates



119-675-09 Triangular for children
 $90^\circ / 50^\circ / 40^\circ$



119-678-08 Triangular for children
 $80^\circ / 70^\circ / 30^\circ$

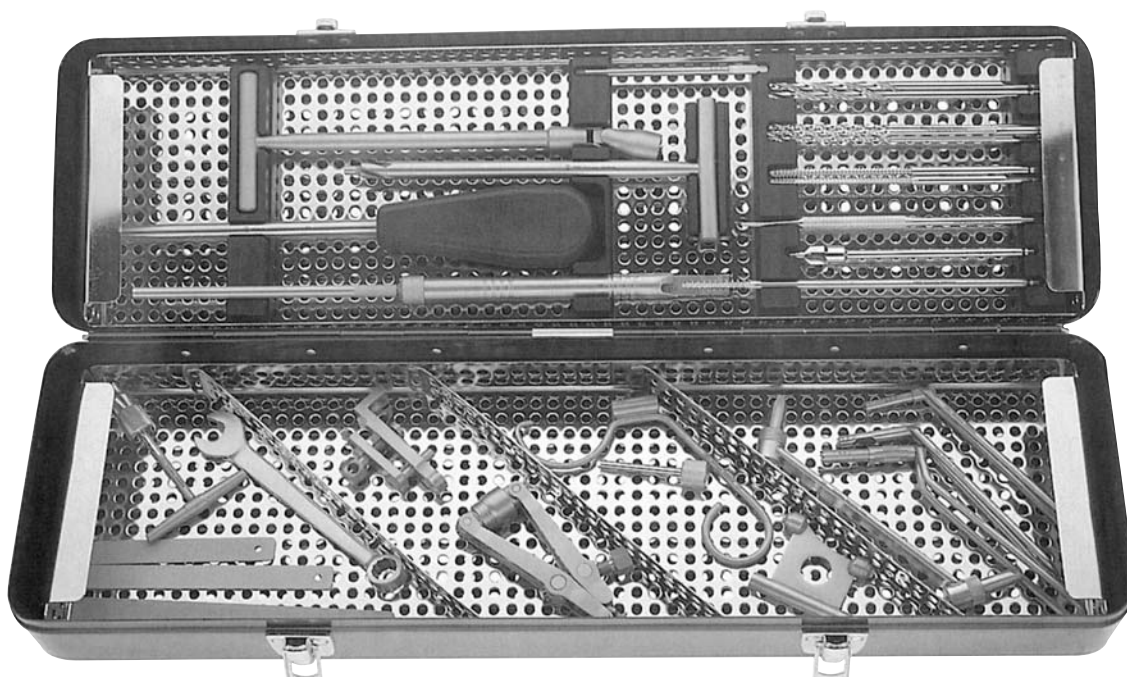


119-680-10 Triangular for children
 $100^\circ / 60^\circ / 20^\circ$



119-684-11 Triangular for children
 $110^\circ / 90^\circ / 90^\circ / 70^\circ$

Basic Instrument Set for Screws and Plates
einfaches Instrumenten-Set für Schrauben und Platten
Set de Instrumentos Básicos para Tornillos y Placas
Set di Strumenti di Base per Viti e Placche
Jeu d'outils simples pour vis et plaques



**D-124-00 Basic Instrument Set for Screws and Plates
for 4.5 mm and 6.5 mm Diameter**

196-045-17 Aluminium Case

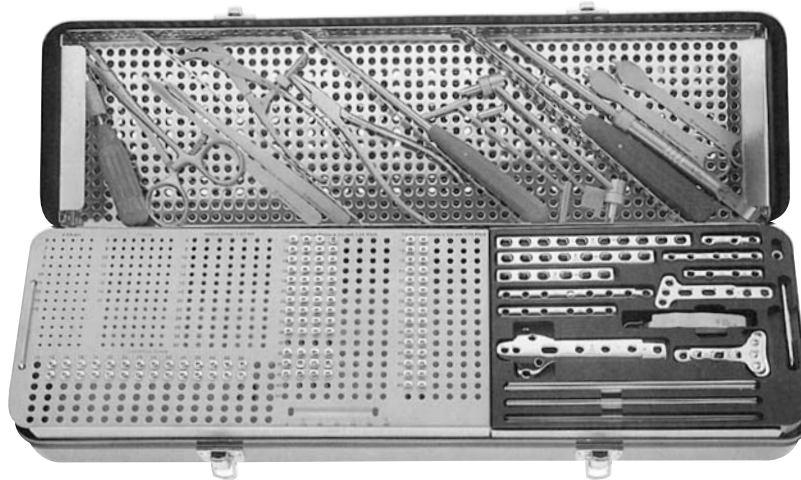
196-124-05 Upper Tray

196-048-01 Lower Case

100-003-32	Drill Bit, Ø 3.2 mm, with end to fit quick coupling of small air drill	3 Pieces
100-003-45	Drill Bit, Ø 4.5 mm, with end to fit quick coupling of small air drill	2 Pieces
100-021-45	Malleolar Countersink, Ø 3.2 mm tip, for malleolar screws	
100-034-02	Tap Handle for Ø 4.5 mm and Ø 6.5 mm taps and Countersink	
100-013-45 D	Tap, Ø 4.5 mm	2 Pieces
100-013-65	Tap, Ø 6.5 mm	
100-112-35	Tap Sleeve, Ø 3.5 (also for use as Ø 3.2 mm drill guide)	
100-120-45	Insert Drill Sleeve, Ø 4.5 mm / 3.2 mm, 58 mm length	
100-115-45	Tap Sleeve, Ø 4.5 mm (also for use as Ø 4.5 mm drill guide)	
100-123-58	Pointed Drill Guide	
100-061-35	Hexagonal Screwdriver, width across flats 3.5 mm	
100-063-35	Hexagonal Screwdriver for quick coupling, width across flats 3.5 mm	
100-070-45	Depth Gauge for 4.5 mm and 6.5 mm screws	
100-073-16	Sharp Hook	
100-085-07	Drill Sleeve for tension device	
100-118-32	Drill Sleeve for 3.2 mm plates, 40 mm length, for round-hole plates	
100-081-08	Tension Device, 8 mm Span	
100-082-20	Articulated Tension Device with gauge, 20 mm span	
100-080-02	Socket Wrench, width across flats 11 mm	
100-084-11	Combination Wrench, width across flats 11 mm	
100-107-45	Neural and Load Drill Guide, Ø 3.2 mm	
100-076-05	Bending Template, 5 holes	
100-076-07	Bending Template, 7 holes	
100-076-09	Bending Template, 9 holes	
100-021-65	Countersink Ø 4.5 mm	

See Section 100 For Further Detail of Instruments

Small Fragment Instruments & Implant Set
kleine Fragment Instrumente & Implantate Set
Set de Implantes y Instrumentos para Pequeños Fragmentos
Set di Impianti e Strumenti per Piccoli Frammenti
Outils & Jeu d'implants pour petits fragments



D-125-00
196-045-17
196-125-03
196-048-03

Small Fragment Instrument and Implant Set
Aluminium Case
Upper Tray
Lower Tray

100-003-25	Drill Bit, 2.5 mm Ø	2 units (for Cortex screws)
100-003-35	Drill Bit, 3.5 mm Ø	2 units (for Cortex screws)
100-021-27	Small Countersink	
100-013-35	Cortical Tap, 3.5 / 1.25 mm Ø with quick coupling end	2 units (for Cortex screws)
100-013-35 D	Cancellous Tap, 3.5 mm Ø with quick coupling end	2 units (for Cancellous screws)
100-032-32	Handle with quick coupling	
100-103-20	Drill Guide and Sleeve, for bit 2.0 mm	
100-105-35	Tap Sleeve, 3.5 mm Ø Drill sleeve 2.5 mm	
100-120-35	Insert Sleeve, 3.5 mm / 2.5 mm	
100-061-25	Small Hexagonal Screwdriver, insert for hexagonal socket 2.5 mm	
100-063-25	Small Hexagonal Screwdriver, Shaft, hex. 2.5 mm, with end for quick coupling	
100-070-35	Small Depth Gauge	
100-107-35	Drill Guide for 3.5 mm screws, use drill bit 2.5 mm Ø	

General Instruments:

100-073-16	Sharp Hook	1 pair
100-090-02/03	Bending Irons for small plates	1 unit each
100-075-07/09	Bending Templates, 7 and 9 holes respectively	
100-215-15	Self-centering Bone Holding Forceps	
100-278-13	Repositioning Forceps with points	
100-284-14	Reduction Forceps for small fragments	
100-358-06	Small Retractor width 6 mm	
100-360-08	Small Retractor width 8 mm	
100-364-15	Retractor for small fragments, with broad shank	2 units

100-740-06	Periosteal Elevator, width 6 mm small, straight edge	
125-035-10 To	small cortex Screws, 3.5 mm Ø, 1.25 mm pitch	
125-035-40	4 each: 10 / 12 / 14 / 16 / 18 / 20 / 22 / 24 / 26 / 28 / 32 / 36 / 40 mm	52 units
125-080-14 To	small Cancellous Bone Screws, 3.5 mm Ø, 1.75 mm pitch	
125-080-60	2 each: 14 / 16 / 18 / 20 / 22 / 24 / 26 / 28 / 32 / 36 / 40 / 45 / 50 / 55 / 60 mm	30 units
125-092-12 To	small Cancellous Bone Screws, 4.0 mm Ø short thread	
125-092-50	2 each: 12 / 14 / 16 / 18 / 20 / 22 / 24 / 26 / 28 / 30 / 35 / 40 / 45 / 50	28 units
125-107-07	Small washer for 3.5 mm and 4.0 mm screws	6 units
125-218-02 To	One-third Tubular Plates, 1 each for 2, 3, 7 and 8 holes	
125-218-06	2 each of 4, 5 and 6 holes	10 units
125-200-06 To	Dynamic Compression Plates 3.5 mm	
	2 each of 6 and 8 holes: 1 with 10 holes	5 units
125-200-10	Small T-Plates, right angle: 1 each with 3 and 4 holes respectively in head	2 units
125-223-03/227-05	Small T-Plates, Oblique angle: 1 each with 3 and 5 holes respectively in Shaft	2 units
125-230-03/04	Cloverleaf Plates: 1 each with 3 and 4 holes respectively in shaft	2 units
125-235-03/04	Kirschner Wires; 1.2 / 1.6 / 2.0 mm Ø, 150 mm long, 10 each	30 units
100-072-02	Screws Forceps	
100-092-27	Bending Pliers	

See Section 100 For Further Detail of Instruments

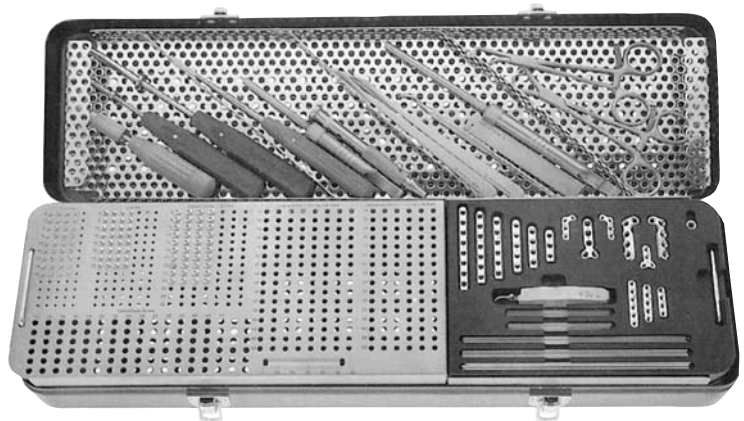
Mini Fragment Instruments and Implant Set

Mini Fragment Instrumente und Implantate Set

Set de Implantes y Instrumentos para Mini Fragmentos

Set di Impianti e Strumenti per Mini Frammenti

Outils & Jeu d'implants pour micro-fragments



D-126-00

Mini Instrument and Implant Set

196-126-03 Aluminium Case Upper Tray

196-148-01 Lower Case

Instruments for 2.0 or 2.7 mm screws

100-003-20	Drill Bit, 2.0 mm Ø, with quick coupling for small air drill	2 units	Screw Type use (mm)
100-003-27	Drill Bit, 2.7 mm Ø, with quick coupling for small air drill	2 units	2.0 + 2.7 mm
100-021-27	Small Countersink, with end to fit quick coupling handle		2.7
100-013-27	Tap, 2.7 mm Ø, with end to fit quick coupling handle	2 units	2.7
100-032-32	Handle with quick coupling		
100-103-20	Drill Guide and Drill Sleeve for 2.0 mm Ø, drill bit		2.0 + 2.7 mm
100-112-35	Tap Sleeve 3.5 mm		2.7
100-061-25	Small Hexagonal Screwdriver 2.5 mm with holding-sleeve		2.7
100-070-35	Depth Gauge (only for 2.7 mm screws)		

Instruments for Mini Screws 1.5 mm or 2.0 mm

100-003-11	Drill Bit, 1.1 mm Ø, with quick coupling for small air drill	2 units	1.5
100-003-15	Drill Bit, 1.5 mm Ø, with quick coupling for small air drill	2 units	2.0
100-021-15	Mini Countersink to fit handle with mini quick coupling		1.5 + 2.0
100-014-15	Tap, 1.5 mm Ø to fit handle with mini quick coupling	2 units	1.5
100-014-20	Tap, 2.0 mm Ø to fit handle with mini quick coupling	2 units	2.0
100-030-11	Handle with mini quick coupling		
100-101-11	Mini Drill sleeve for 1.1 and 1.5 mm Ø drill bits		1.5 + 2.0
100-070-15	Mini Depth Gauge for 2.0 mm Ø screws only		

General Instruments

100-073-16	Sharp Hook		
100-061-15	Screw Driver 1.5 mm with holding-sleeve		
100-090-01	Bending Iron for finger plates		
100-280-13	Holding Forceps for small plates		
100-278-13	Reduction Forceps with points		
100-358-06	Small retractor, 6 mm		
100-360-08	Small retractor, 8 mm		
100-364-15	Retractor for small fragments, with broad shank, short	2 units	
100-742-03	Periosteal Elevator, small with straight edge 3 mm		

Implants for 2.7 mm Ø screws

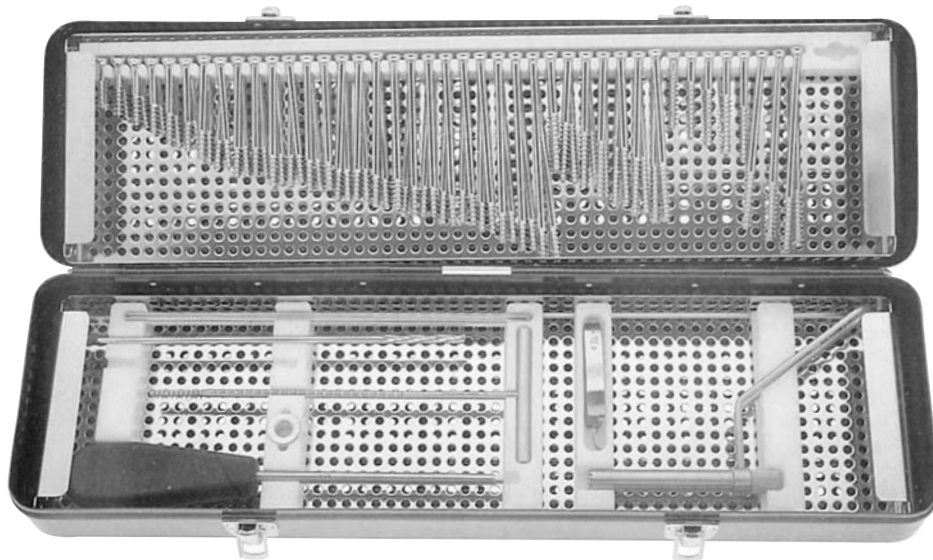
126-027-06 To	2.7 mm Cortex Screws with hexagonal socket 2.5 mm		
126-027-24	5 ea: 6 / 8 / 10 / 12 / 14 / 16 / 18 / 20 / 22 / 24 mm	50 units	
126-107-07	Small Washer, for 2.7 mm screws	6 units	
126-217-03 To	Quarter Tubular Plates: 2 ea with 3 / 4 / 5 holes		
126-217-08	1 each with 6 / 7 / 8 holes	9 units	
126-275-04/05	L-Plates, oblique left and oblique right 2 each	4 units	
126-277-07	T-Plates	4 units	

Mini Implants for 1.5 or 2.0 mm Ø Screws

126-015-06 To	1.5 mm Cortex Screws, with hexagonal recess		
126-015-16	4 ea: 6 / 7 / 8 / 9 / 10 / 11 / 12 / 14 / 16	36 units	
126-020-06 To	2.0 mm Cortex Screws, with hexagonal recess		
126-020-16	4 ea: 6 / 8 / 9 / 10 / 11 / 12 / 14 / 16	32 units	
126-190-04/06	Straight Mini plates, 2 each with 4 / 5 / 6	6 units	
126-192-04/05	Mini L-plates oblique left and oblique right 2 each	4 units	
126-193-07	Mini T-plate	4 units	
126-007-08 To	10 each 0.8 mm, 1.0 mm Ø 70 mm long kirschner Wires		
126-015-16	10 each 1.0 / 1.2 / 1.6 mm Ø 150 long	50 units	
100-072-02	Screw Forceps		

See Section 100 For Further Detail of Instruments

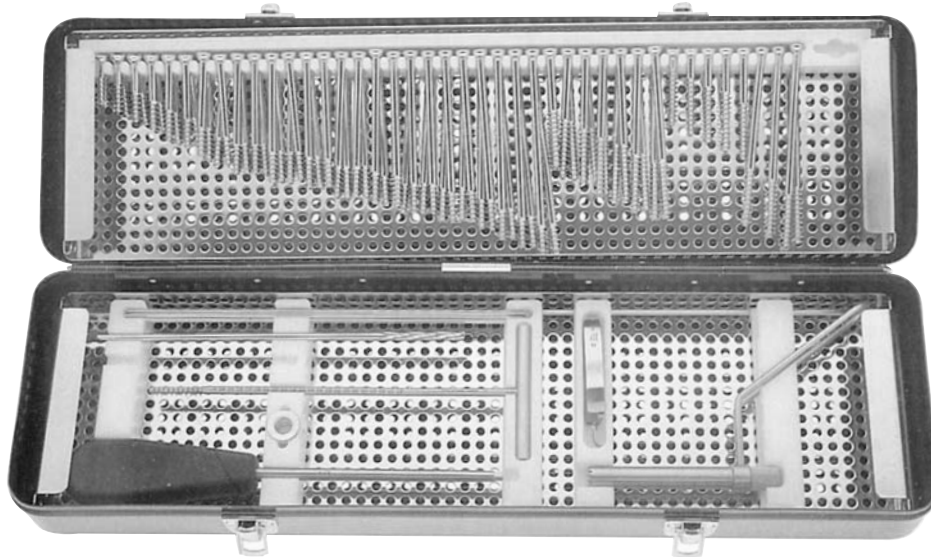
Cannulated Screws and Instrument Set
Kanülierte Schrauben und Instrumente Set
Set de Instrumentos y Tornillos Canulados
Set di Strumenti e Viti Cannulate
Vis et jeu d'outils cannulés



D-127-03 Cannulated Screws 3.5 mm and Instrument Set
196-045-17 Aluminium Case
196-127-05 Upper Tray
196-127-06 Lower Tray

			Pieces
127-035-10 To 127-035-24	Cannulated Screw 3.5 mm (half thread) 10-24 mm	2 each.	16
127-035-26 To 127-035-40	Cannulated Screw 3.5 mm (half thread) 26-40 mm	4 each.	32
127-035-42 To 127-035-50	Cannulated Screw 3.5 mm (half thread) 42-50 mm	2 each.	10
127-045-10 To 127-045-24	Cannulated Screw 3.5 mm (full thread) 10-24 mm	2 each.	16
127-045-26 To 127-045-40	Cannulated Screw 3.5 mm (full thread) 26-40 mm	4 each.	32
127-045-42 To 127-045-50	Cannulated Screw 3.5 mm (full thread) 42-50 mm	2 each.	10
127-085-13	Washer 3.5 mm		6
127-160-27	Cannulated Drill Bit 2.7 mm Ø		1
127-160-35	Cannulated Drill Bit 3.5 mm Ø		1
127-168-35	Cannulated Tap 3.5 mm Ø		1
127-125-10	Guide Wire Ø 1.0 mm		1
127-175-35	Cannulated screwdriver		1
100-072-02	Screw Holding Forceps		10
127-212-35	Tap Sleeve 2.7 mm, drill sleeve 1.0 mm		1
127-200-35	Tap Sleeve 3.5 mm, drill sleeve 2.5 mm		1

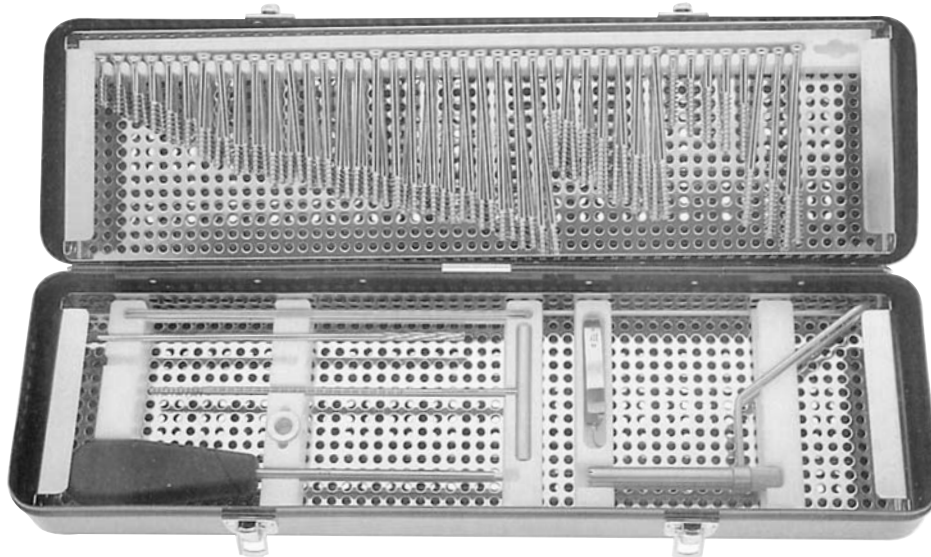
Cannulated Screws and Instrument Set
Kanülierte Schrauben und Instrumente Set
Set de Instrumentos y Tornillos Canulados
Set di Strumenti e Viti Cannulate
Vis et jeu d'outils cannulés



D-127-04 Cannulated Screws 4.5 mm and Instrument Set
196-045-17 Aluminium Case
196-127-08 Upper Tray
196-127-09 Lower Tray

			Pieces
127-055-20 To 127-055-34	Cannulated Screw 4.5 mm (half thread) 20-34 mm	2 each.	16
127-055-36 To 127-055-44	Cannulated Screw 4.5 mm (half thread) 36-44 mm	4 each.	32
127-055-46 To 127-055-60	Cannulated Screw 4.5 mm (half thread) 46-60 mm	2 each.	16
127-065-20 To 127-065-34	Cannulated Screw 4.5 mm (full thread) 20-34 mm	2 each.	16
127-065-36 To 127-065-44	Cannulated Screw 4.5 mm (full thread) 36-44 mm	4 each.	20
127-065-46 To 127-065-60	Cannulated Screw 4.5 mm (full thread) 46-60 mm	2 each.	18
127-085-16	Washer 4.5 mm		6
127-160-32	Cannulated Drill Bit 3.2 mm Ø		1
127-160-45	Cannulated Drill Bit 4.5 mm Ø		1
127-168-45	Cannulated Tap 4.5 mm Ø		1
127-125-16	Guide Wire Ø 1.6 mm		1
127-175-45	Cannulated screwdriver		10
100-072-02	Screw Holding Forceps		1
100-115-45	Tap Sleeve for 4.5 mm Screw		1

Cannulated Screws and Instrument Set
Kanülierte Schrauben und Instrumente Set
Set de Instrumentos y Tornillos Canulados
Set di Strumenti e Viti Cannulate
Vis et jeu d'outils cannulés



D-127-07 Cannulated Screws 7.0 mm and Instrument Set
196-045-17 Aluminium Case
196-127-01 Upper Tray
196-127-02 Lower Tray

			Pieces
127-070-30 To 127-070-65	Cannulated Screw 7.0 mm Ø, 16 mm 30-35-40-45-50-55-60-65 mm	2 each.	16
127-070-70 To 127-070-92	Cannulated Screw 7.0 mm Ø, 16 mm 70-75-80-85-90-95-100 mm	4 each.	28
127-070-93 To 127-070-96	Cannulated Screw 7.0 mm Ø, 16 mm 105-110-115-120 mm	2 each.	8
127-080-45 To 127-080-65	Cannulated Screw 7.0 mm Ø, 32 mm 45-50-55-60-65 mm	1 each.	5
127-080-70 To 127-080-92	Cannulated Screw 7.0 mm Ø, 32 mm 70-75-80-85-90-95-100 mm	2 each.	14
127-080-93 To 127-080-96	Cannulated Screw 7.0 mm Ø, 32 mm 105-110-115-120 mm	1 each.	4
127-085-19	Washer 7.0 mm Ø		6
127-160-50	Drill Bit 5.0 mm Ø		1
127-168-70	Tap 7.0 mm Ø		1
127-175-70	Screw Driver		1
127-227-70	Tissue Protector Sleeve		1
127-125-20	Guide Wire 2.0 mm Ø 230 mm		10
100-072-20	Screw Holding Forceps		1

Instruments for Cannulated Screws

Instrumente für kanülierte Schrauben

Instrumentos para Tornillos Canulados

Strumenti per Viti Cannulate

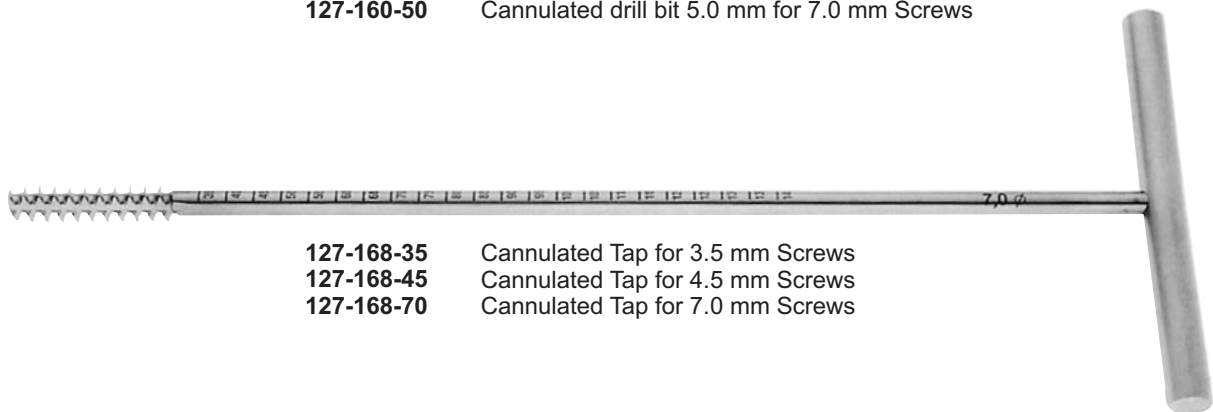
Outils pour vis cannulées



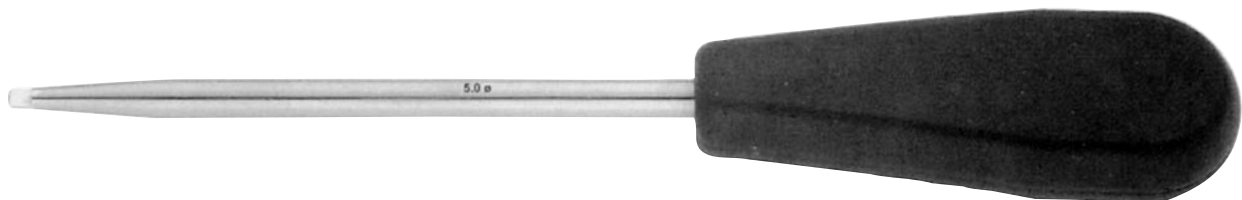
- 127-125-10** Guide wire 1.0 mm for Cannulated Screws 3.5 mm Ø 230 mm
- 127-125-16** Guide wire 1.6 mm for Cannulated Screws 4.5 mm Ø 230 mm
- 127-125-20** Guide wire 2.0 mm for Cannulated Screws 7.0 mm Ø 230 mm



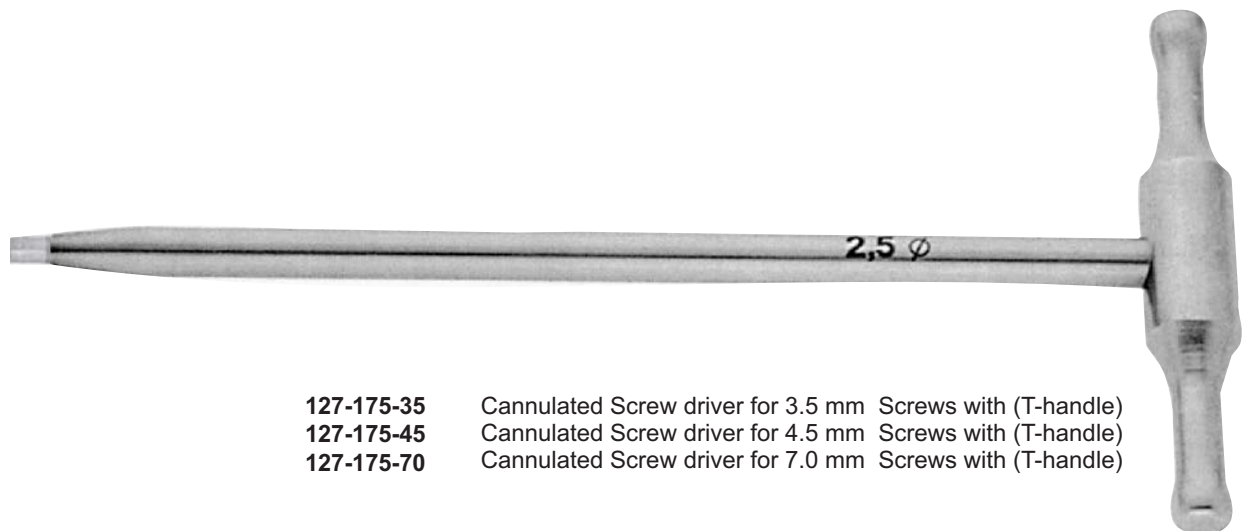
- 127-160-27** Cannulated drill bit 2.7 mm for 3.5 mm Screws
- 127-160-35** Cannulated drill bit 3.5 mm for 3.5 mm Screws
- 127-160-32** Cannulated drill bit 3.2 mm for 4.5 mm Screws
- 127-160-45** Cannulated drill bit 4.5 mm for 4.5 mm Screws
- 127-160-50** Cannulated drill bit 5.0 mm for 7.0 mm Screws



- 127-168-35** Cannulated Tap for 3.5 mm Screws
- 127-168-45** Cannulated Tap for 4.5 mm Screws
- 127-168-70** Cannulated Tap for 7.0 mm Screws



- 127-173-35** Cannulated Screw Driver for 3.5 mm screws (fiber handle)
- 127-173-45** Cannulated Screw Driver for 4.5 mm screws (fiber handle)
- 127-173-70** Cannulated Screw Driver for 7.0 mm screws (fiber handle)

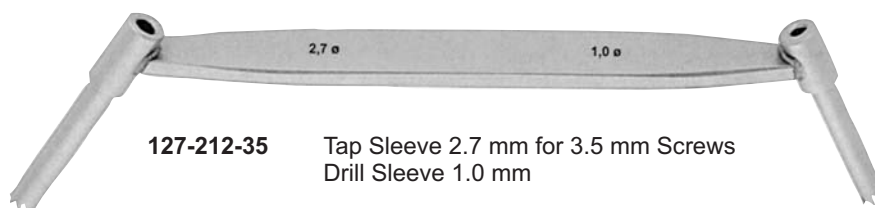


- 127-175-35** Cannulated Screw driver for 3.5 mm Screws with (T-handle)
- 127-175-45** Cannulated Screw driver for 4.5 mm Screws with (T-handle)
- 127-175-70** Cannulated Screw driver for 7.0 mm Screws with (T-handle)

Drill Sleeves for Cannulated Instruments
Bohrerhülsen für kanülierte Schrauben
Camisas de Broca para Instrumentos Canulados
Cannule Guida per Strumenti Cannulati
Embouts de forets pour vis cannulées



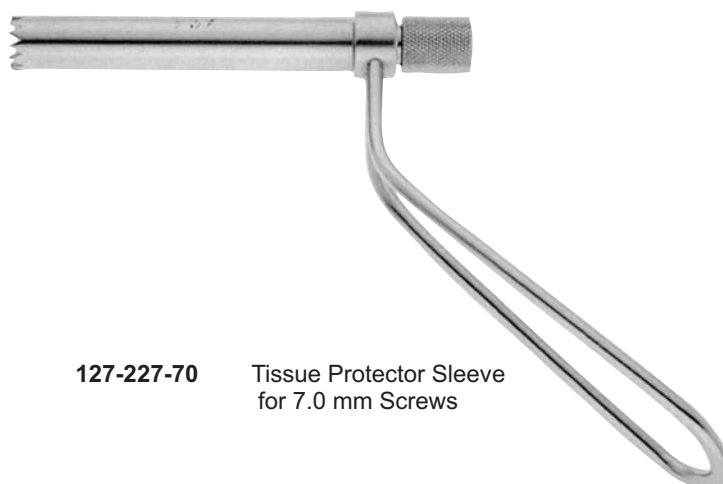
127-200-35 Tap Sleeve 3.5 mm for 3.5 mm Screws
 Drill Sleeve 2.5 mm



127-212-35 Tap Sleeve 2.7 mm for 3.5 mm Screws
 Drill Sleeve 1.0 mm



100-115-08 Tap Sleeve 4.5 mm for 4.5 mm Screws



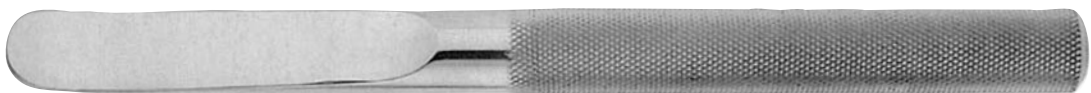
127-227-70 Tissue Protector Sleeve
 for 7.0 mm Screws



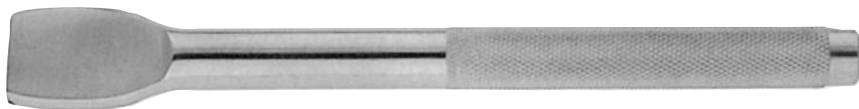
127-245-20 Parallel Target Device for Guide Wires Ø 2.0 mm

**Epiphyseal Staples
epiphysäre Klammern
Grapas para Epífisis
Graffe Epifisarie
Agrafes épiphysaires**

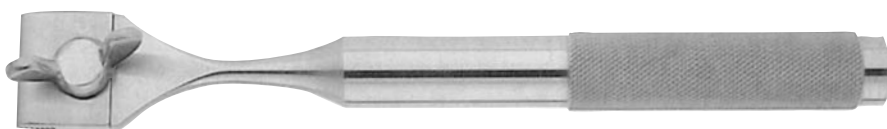
Stainless Steel



128-130-25 Staples Extractor

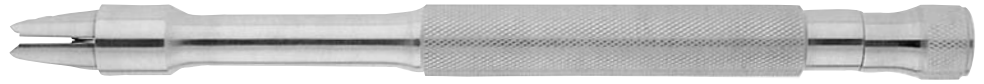


128-132-16 Staples Driver

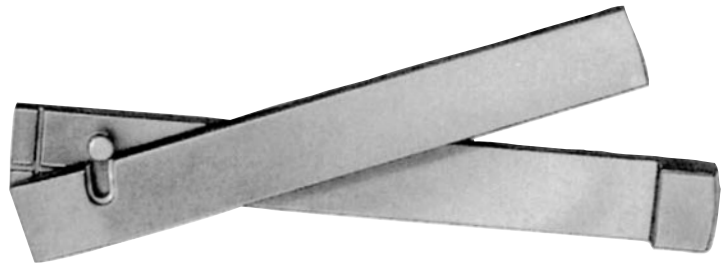


128-134-19 Staples Inserter

Staples - Chrome Cobalt Molybden
Klammern – Chrom Cobalt Molybdän
Grapas - Cromo Cobalto Molibdeno
Graffe - Cromo Cobalto Molibdeno
Agrafes - Chrome, Cobalt, Molybdène

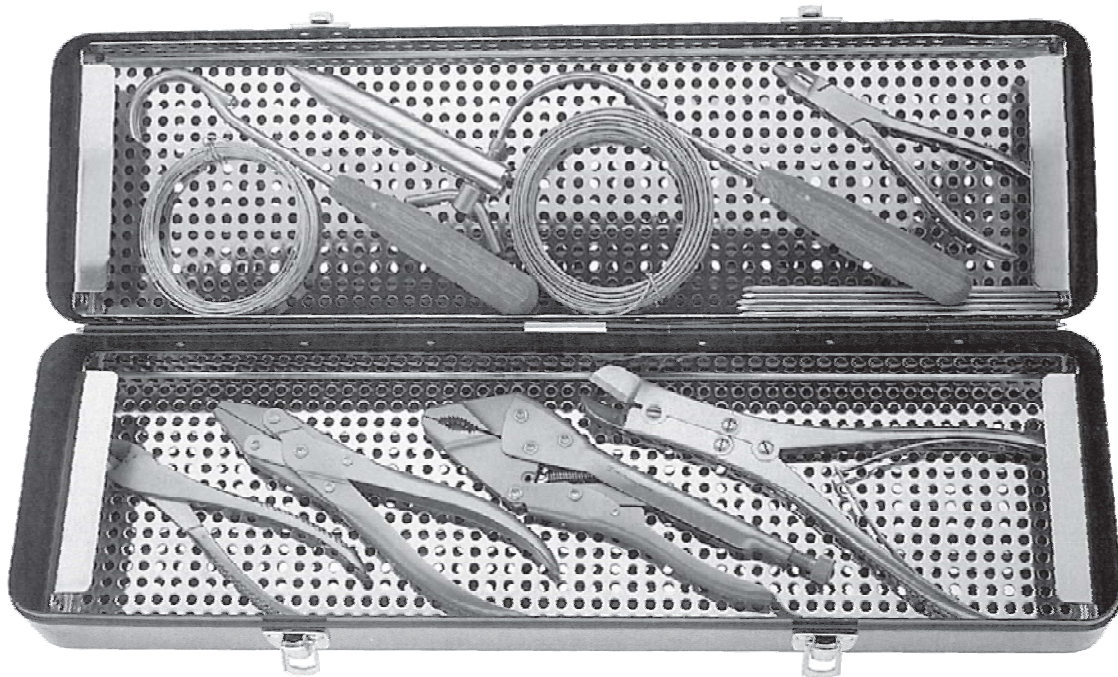


128-270-18 Impactor



128-271-02 Impactor for 132-322-09 To 132-322-28
128-271-04 Impactor for 132-340-16 To 132-355-15

Wire Instrument Set
Draht Instrumente Set
Set de Instrumentos de Alambre
Set di Strumenti per Filo Metallico
Jeu d'outils de filage



D-130-00 Wire Instrument Set
196-045-17 Aluminium Case
196-048-00 Upper Tray
196-048-00 Lower Tray

Instruments

Tray (lower)

130-172-18	Forceps for holding cerclage wire T/C	2 units
130-208-10	Wire Bending cutting Pliers	
130-165-18	Flat-Nosed Parallel Pliers	
130-170-18	Vise Grip	
130-203-15	Wire Cutter, small T/C	
130-220-25	Wire Cutter, long T/C	

Instruments

Tray (upper)

130-145-45	Wire Guide 45 mm	
130-145-70	Wire Guide 70 mm	
130-128-30	Wire Tightener	
130-012-10	Cerclage Wires with eye, 1.0 mm Ø ,280 mm long	10 units
130-012-12	Cerclage Wires with eye, 1.2 mm Ø ,280 mm long	20 units
130-010-10	Wire Coil, 1.0 mm Ø , length 10 meters	1 units
130-010-12	Wire Coil, 1.2 mm Ø , length 10 meters	1 units
130-015-10 To	1.0 / 1.2 / 2.0 / 2.5 / 3.0 mm Ø ,10 each Kirschner	50 units
130-015-30		
130-015-16	1.6 mm	20 units

Wires / Instrument
Drähte / Instrumente
Alambres / Instrumentos
Fili Metallici / Strumenti
Fils / Outils



130-102-10 Parham Martin Band Tightener

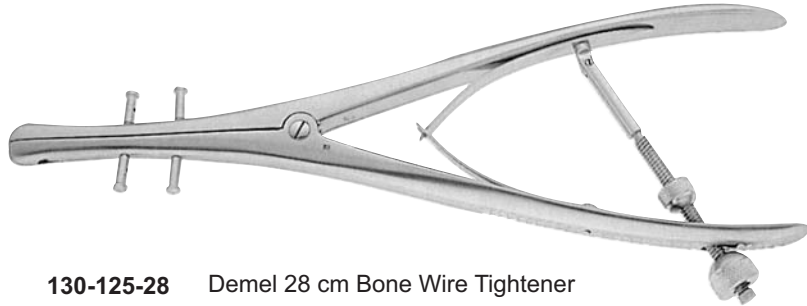


130-102-19 Parham Metal Bone Bands 19 cm x 0.5 mm

**Wire Instruments
Draht Instrumente
Instrumentos de Alambre
Strumenti per Filo Metallico
Outils pour fils**



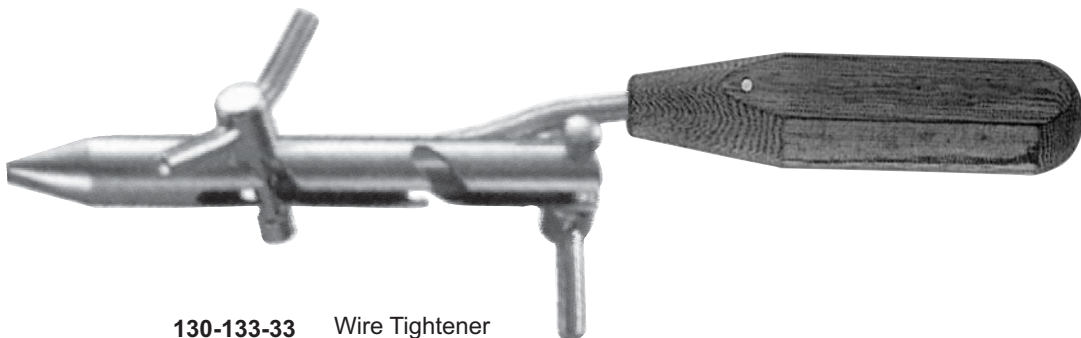
130-122-22 Loute 22 cm Bone Wire Tightener



130-125-28 Demel 28 cm Bone Wire Tightener



130-128-30



130-133-33 Wire Tightener



130-145-45 Wire Guide 45 mm



130-145-70 Wire Guide 70 mm

Wire Instruments
Draht Instrumente
Instrumentos de Alambre
Strumenti per Filo Metallico
Outils pour fils



130-150-18 Extraction Pliers for wire 180 mm
130-152-18 Extraction Pliers TC jaws



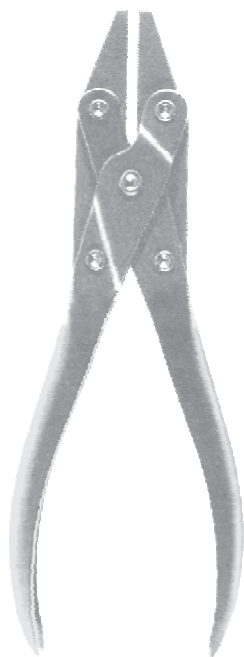
130-155-13 Extraction Pliers for boring wire 130 mm
130-155-18 Extraction Pliers for boring wire 180 mm



130-160-19 Extraction Pliers, 190 mm TC



130-162-20 Extraction Pliers, 200 mm TC



130-165-18 Flat-nosed Pliers, parallel, 180 mm Stainless Steel



130-168-18 Flat-nosed Pliers, parallel, with lateral wire cutter, 180 mm Stainless Steel



130-170-18 Vise Grip 180 mm Stainless Steel
130-170-20 Vise Grip 200 mm Stainless Steel
130-170-24 Vise Grip 240 mm Stainless Steel

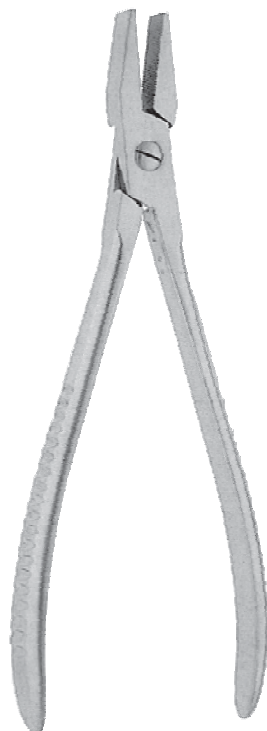


130-172-18 Wire Tightening Pliers T/C 180 mm

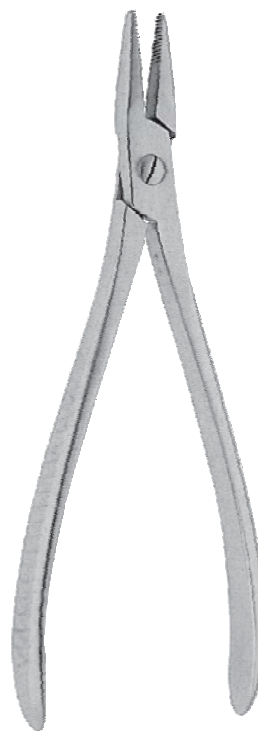
Wire Instruments
Draht Instrumente
Instrumentos de Alambre
Strumenti per Filo Metallico
Outils pour fils



130-175-50
 Bending Iron
 for Kirschner Wires



130-178-20 Pliers with serrated
 jaws and groove
130-178-25 Pliers with serrated
 jaws without groove



130-180-18
 Rounded Pliers with
 serrated jaws



130-190-10
 Wire Bending Cutting
 Pliers soft wire 1.5 mm
 Hard Wire 1.0 mm



130-200-10 Universal Scissors
130-200-12 Universal Scissors
 with TC cutting edges



130-203-15
 Wire Cutter T/C



130-208-10
 Wire Bending Pliers
 soft Wire 1.5 mm
 Hard Wire 1.0 mm



130-214-12
 Wire Cutter
 soft wire 2.0 mm
 hard wire 1.2 mm

Wire Cutters
Drahtschere
Cizallas para Alambre
Forbici per Filo Metallico
Ciseaux pour fils



130-218-15

TC 180 mm
 soft wire 2.0 mm
 hard wire 1.5 mm



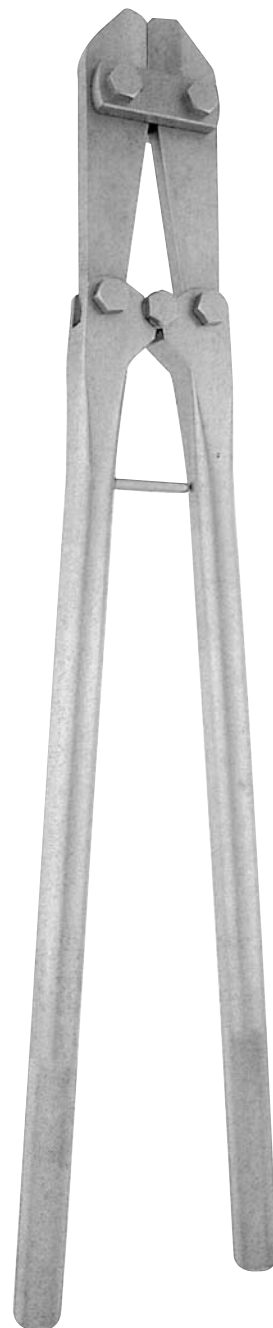
130-220-25

Wire Cutter 220 mm TC
 soft wire 3.0 mm
 hard wire 2.5 mm



130-224-15

180 mm frontal and lateral
 cutting action TC
 soft wire 2.0 mm
 hard wire 1.5 mm



130-246-60

Cutter for cutting of Kirschner wires
 Sreinnmann Pins up to 6 mm Ø hard
 460 mm TC



130-227-25

Wire Cutter TC
 soft wire 3.0 mm
 hard wire 2.5 mm



130-240-08

Wire Cutter 140 mm TC
 soft wire 1.2 mm
 hard wire 0.8 mm



130-242-22

Wire Cutter 220 mm TC
 soft wire 2.5 mm
 hard wire 2.2 mm

130-254-60

Cutter for cutting of Kirschner wires
 Sreinnmann Pins up to 6 mm Ø hard
 540 mm TC

Wire Extension Draht Zugbügel Estribos Staffe Noeuds de rallonge de fil



Kirschner

130-314-40 40 x 140 mm
130-320-60 60 x 220 mm



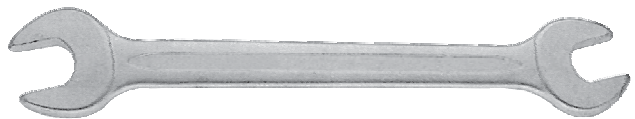
Kirschner, American type

130-325-13	Size	Max. Jaw Opening
130-325-18	Medium	130 mm
130-325-18	Large	185 mm
130-325-22	Extra Large	220 mm

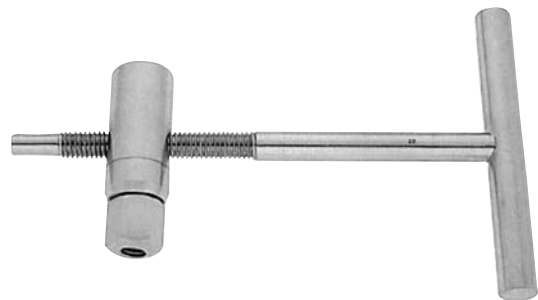


Kirschner

130-330-15 200 mm x 155 mm
130-332-15 155 mm x 155 mm
130-335-13 135 mm x 130 mm
130-337-12 120 mm x 120 mm
130-340-10 105 mm x 100 mm
130-342-11 95 mm x 110 mm
130-345-07 95 mm x 70 mm

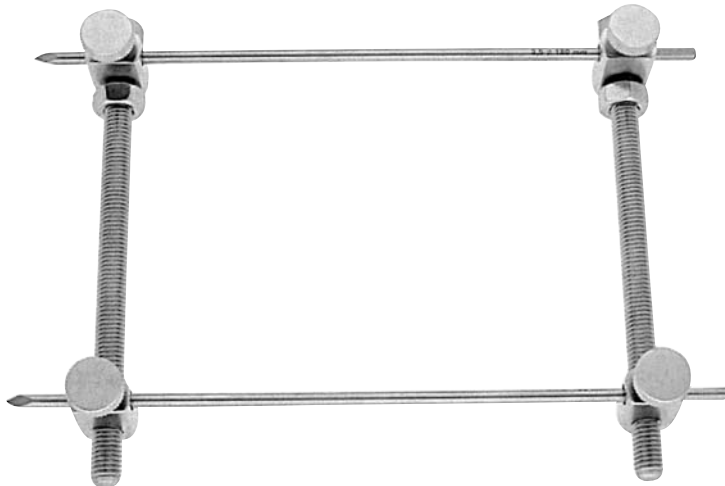


130-354-17 Screw Nut Wrench
14 x 17 mm

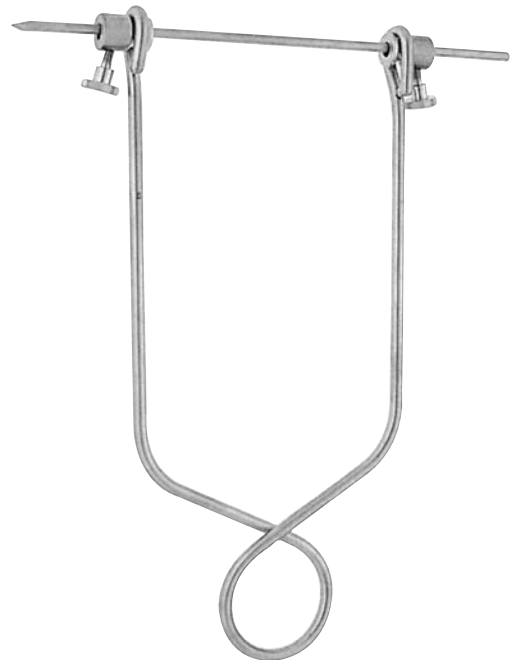


130-360-35 Wire Strainer for
Kirschner Extension Bow

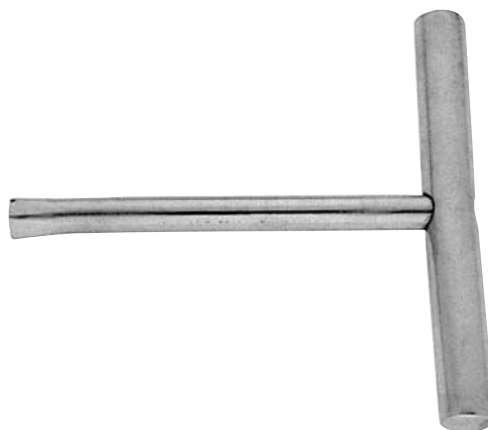
**Wire Extension
Draht Zugbügel
Estribos
Staffe
Noeuds de rallonge de fil**



130-365-30 Charnley-Mueller
Compression Clamp



	Inside Length	Inside Width
130-370-07	90 mm	75 mm
130-370-09	160 mm	90 mm
130-370-11	210 mm	110 mm
130-370-15	210 mm	150 mm

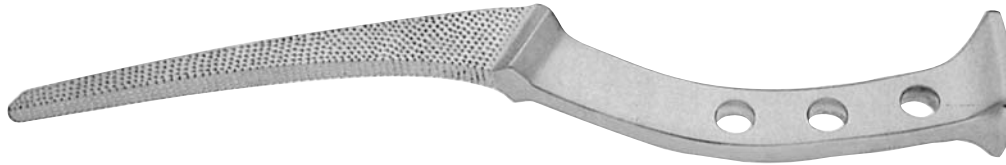


130-378-08 Hexagonal Wrench for Tibia Bolt



130-380-24 Tibia Bolt Ø2.4 mm, 180 mm length
130-380-32 Tibia Bolt Ø3.2 mm, 180 mm length

Instruments for Austin Moore / Thompson Hip Prosthesis
Instrumente für Austin Moore / Thompson Hüftprothese
Instrumentos para Prótesis de Cadera Austin Moore / Thompson
Strumenti per Protesi dell'Anca Austin Moore / Thompson
Outils pour prothèses de hanche Austin Moore / Thompson



135-105-76 Moore Rasp for Standard Stem
135-105-78 Moore Rasp for Narrow Stem



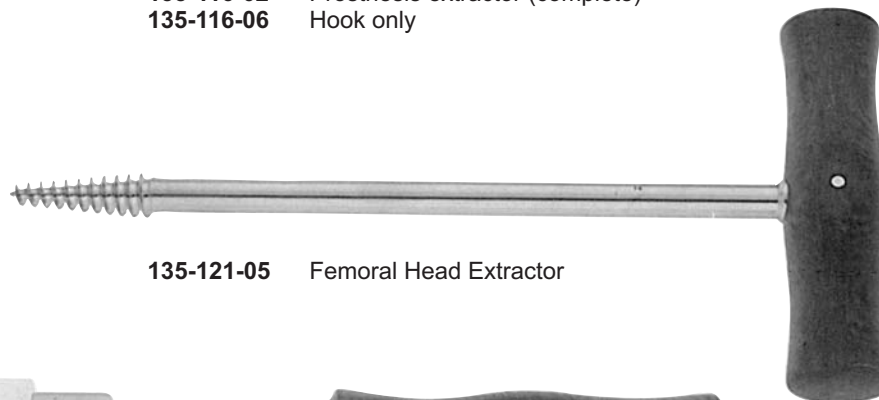
135-108-90 Thompson Rasp



135-110-03 Crossbar



135-116-02 Prosthesis extractor (complete)
135-116-06 Hook only



135-121-05 Femoral Head Extractor



135-126-02 Prosthesis Driver
135-126-06 Head Only



135-135-35 Murphy Lane Bone Skid

Instruments for Hip Surgery
Retraktor für Hüftoperation
Separadores Para Cirugía de Cadera
Divaricatori Per Chirurgia dell'Anca
Écarteurs pour chirurgie de la hanche



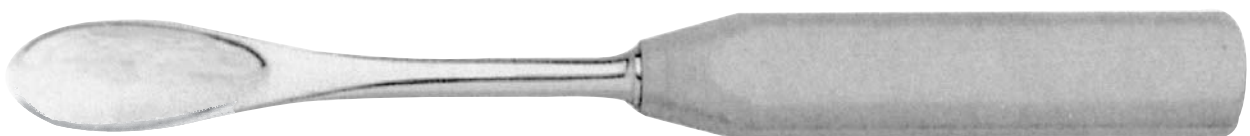
135-210-09 Curette, small 9 mm / 280 mm



135-212-15 Curette, medium 15 mm / 280 mm



135-213-27 Curette, large 27 mm / 270 mm



135-225-26 Lever for dislocation of femoral Head 265 mm

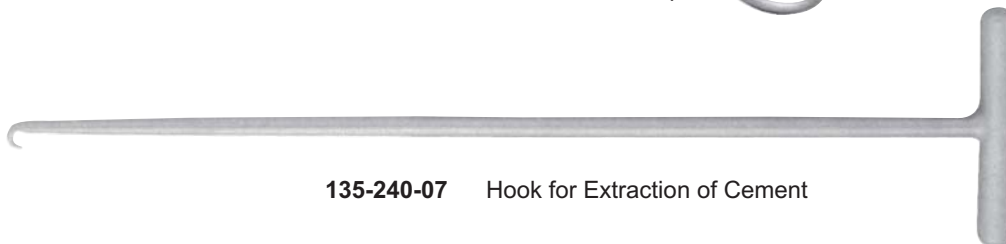
Instruments for Hip Surgery
Retraktor für Hüftoperation
Separadores Para Cirugía de Cadera
Divaricatori Per Chirurgia dell'Anca
Écarteurs pour chirurgie de la hanche



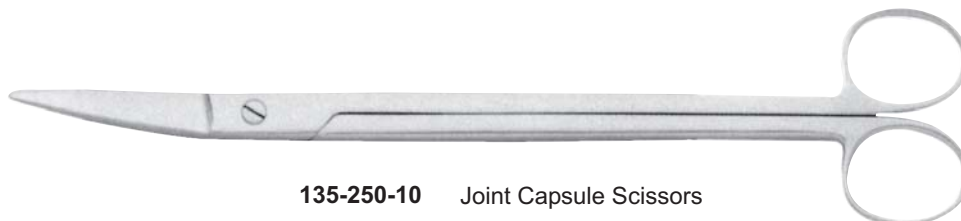
135-228-04 Sharp Bone Hook



135-235-70 Trochanter Forceps



135-240-07 Hook for Extraction of Cement



135-250-10 Joint Capsule Scissors



135-252-06 Joint Capsule Clamp



135-256-02 Calcar Reamer

Instruments for Hip Surgery
Retraktor für Hüftoperation
Separadores Para Cirugía de Cadera
Divaricatori Per Chirurgia dell'Anca
Écarteurs pour chirurgie de la hanche



135-302-38 Volkman Skin Retractor 38 mm



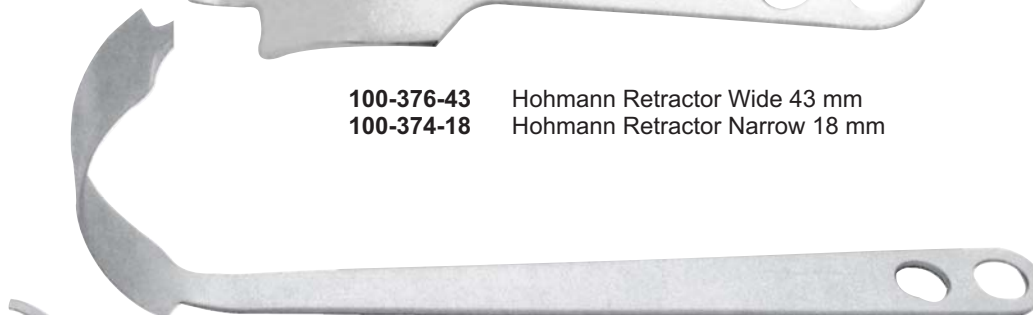
135-303-03 Langenbeck Retractor



100-384-24 Hohmann Retractor 24 mm



100-376-43 Hohmann Retractor Wide 43 mm
100-374-18 Hohmann Retractor Narrow 18 mm



135-305-30 Anterior Retractor 43 mm



135-306-32 Anterior Retractor 43 mm
135-308-34 Anterior Retractor 43 mm with insert hole

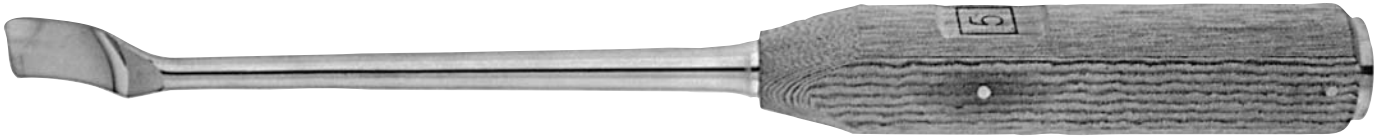


135-315-24 Muller Femoral Retractor 26 mm borad

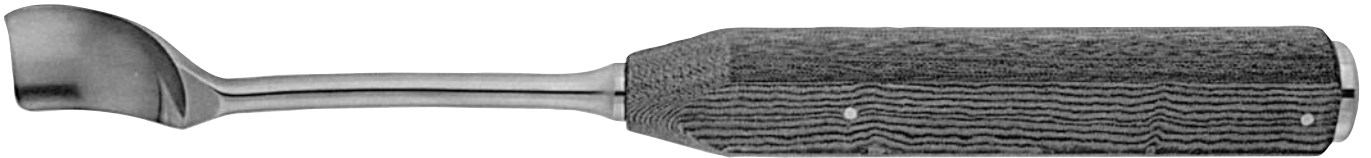


135-317-02 Weight (1250 gr) for Muller Femoral Retractor

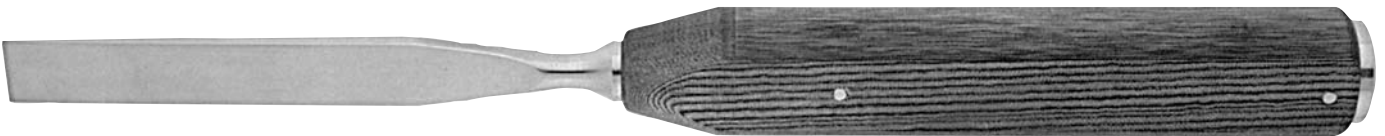
**Chisels / Osteotomes / Gouge
Meißel / Osteotomien / Meißeln
Gubias / Osteotomos / Cinceles
Scalpelli / Osteotomi / Sgorbie
Ciseaux / Ostéotomes / Gouges**



135-331-16 Swan necked gouge
16 mm / 315 mm length



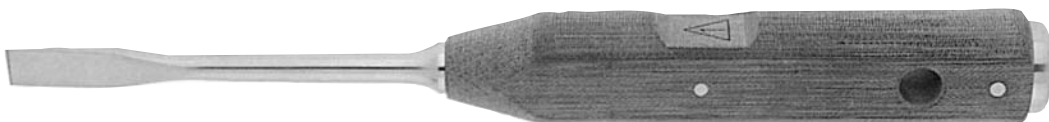
135-331-25 Swan necked gouge
25 mm / 315 mm length



135-335-16 Osteotome Straight 16 mm / 310 mm length
135-336-16 Osteotome Curved 16 mm / 310 mm length



135-340-12 Lexer Chisel 12 mm 315 mm length
135-340-20 Lexer Chisel 20 mm 315 mm length
135-340-25 Lexer Chisel 25 mm 315 mm length
135-340-30 Lexer Chisel 30 mm 315 mm length



135-347-10 Lexer Chisel 10 mm
200 mm length

Cement Extraction Instruments
Zement Extraktions Instrumente
Instrumentos de Extracción de Cemento Óseo
Strumenti di Estrazione del Cemento Osseo
Outils d'extraction du ciment



135-352-03 Straight Chisel
3 mm/ 310 mm length

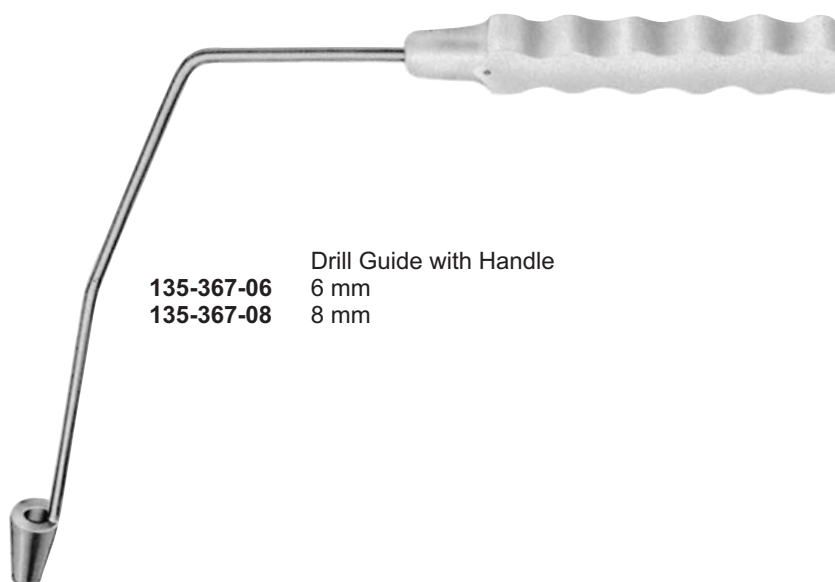


135-360-12 Bone Chisel,
ground on one side only
135-364-20 12 mm / 260 mm
20 mm / 315 mm



100-680-05 Straight Gouges
5 mm / 265 mm length
100-680-10 10 mm / 265 mm length
100-680-15 15 mm / 265 mm length

100-681-05 Curved Gouges
5 mm / 265 mm length
100-681-10 10 mm / 265 mm length
100-681-15 15 mm / 265 mm length



135-367-06 Drill Guide with Handle
6 mm
135-367-08 8 mm



135-370-31 Chisel for cup extraction
7.5 mm, 310 mm length

Cement Extraction Instruments
Zement Extraktions Instrumente
Instrumentos de Extracción de Cemento Óseo
Strumenti di Estrazione del Cemento Osseo
Outils d'extraction du ciment



135-375-09 Chisel for extraction of cement
9 mm Angled 15° 330 mm



135-377-34 Chisel for cement extraction
9 mm negative / 340 mm



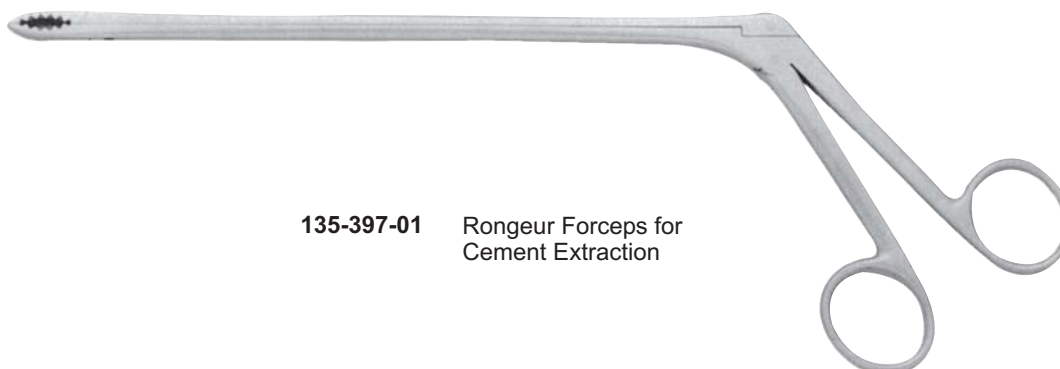
135-378-40 Chisel for cement extraction
9 mm Positive / 400 mm



135-380-11 Chisel for extraction of cement
115 mm / 280 mm



135-382-09 Chisel for extraction of cement
9 mm negative / 280 mm

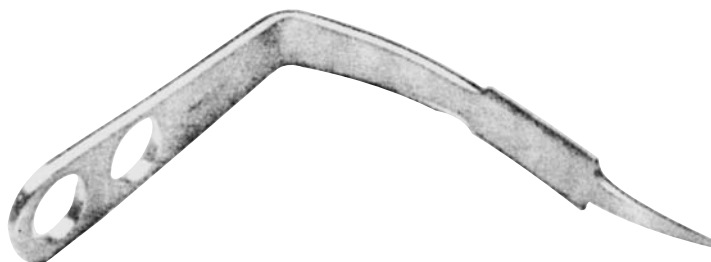


135-397-01 Rongeur Forceps for
Cement Extraction

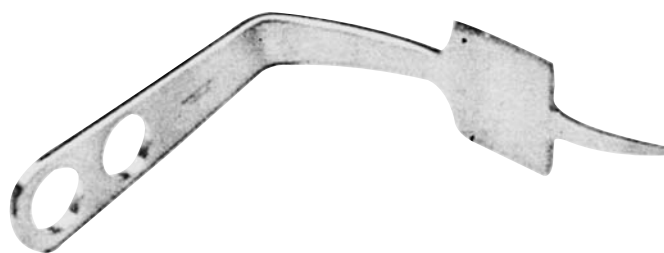
Hip & Knee Instruments
Hüft & Knie Instrumente
Instrumentos para Cadera y Rodilla
Strumenti per Anca e Ginocchio
Outils pour hanches et genoux



135-450-18 Right Angled Hohmann
Retractors blade 18 mm



135-458-43 Right Angled Hohmann
Retractors blade 43 mm

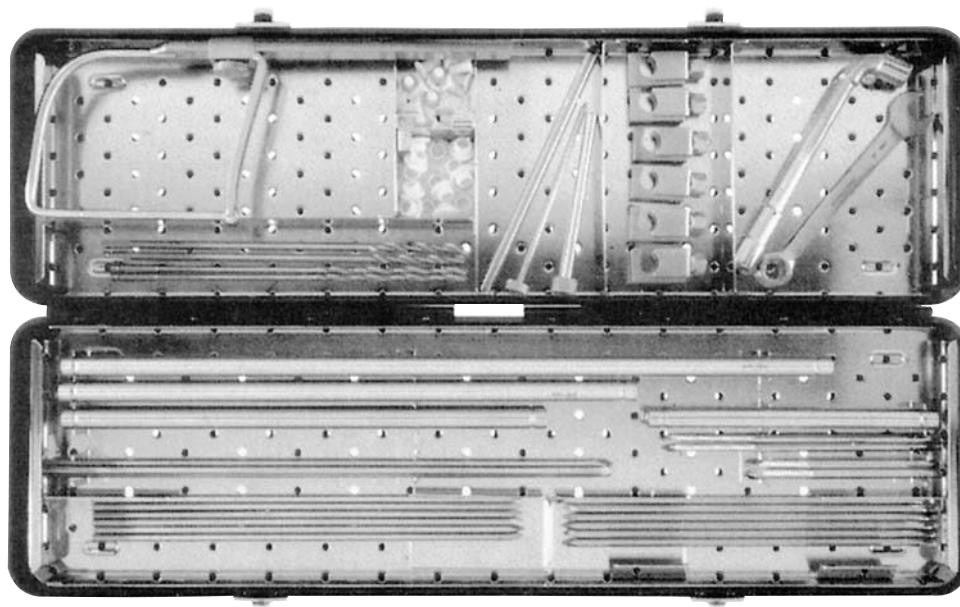


135-463-01 C-Retractor to Retract Femur Anteriorly



135-482-04 Vise Grip with Sliding Hammer

External Fixator / Instrument Set
externes Fixateur / Instrumenten Set
Set de Instrumentos / Fijador Externo
Set di Strumenti / Fissatore Esterno
Fixateur externe / jeu d'outils



D-145-00 **Standard Set External Fixator (Tubular system)**
196-045-17 **Aluminium Case**
196-048-00 **Upper Tray**
196-048-00 **Lower Tray**

Instruments

100-001-35L	Drill Bit, Ø 3.5 mm, extra long, with end to fit quick coupling	2 pieces
100-084-11	Combination wrench, width across flats 11 mm	
145-012-11	Socket wrench, width across flats 11 mm	
145-013-03	Hexagonal Allen Key	
145-008-68	Universal chuck with T-handle	2 pieces
145-172-04	Open Compressor	
145-025-50	Drill Sleeve, 5.0 mm / 3.5 mm Ø, 100 mm length	
145-022-50	Drill Sleeve, 5.0 mm / 3.5 mm Ø, 80 mm length	
145-032-60	Drill Sleeve, 6.0 mm / 5.0 mm Ø, 100 mm length	
145-028-60	Drill Sleeve, 6.0 mm / 5.0 mm Ø, 80 mm length	
145-018-35	Trocar, 3.5 mm	
145-015-35	Trocar, 3.5 mm	

Implants

145-350-12 To	Schanz Screw 5.0 mm, 125, 150, 170, 200, mm length	each. 6	24 pieces
145-350-20			

Fixation Material

145-120-11	Plug for Tubes	10 pieces	
145-111-10	Tubes 100, 125 mm length		
145-111-12		each. 1	2 pieces
145-111-15 To	Tubes 150, 200, 250, 300, 250, 400 mm length		
145-111-40		each. 2	12 pieces
145-167-11	Tube to Tube Clamps		2 pieces
145-163-12	Open clamp		12 pieces

**Instruments for External Fixator
Instrumente für externe Fixateur
Instrumentos para Fijador Externo
Strumenti per Fissatore Esterno
Outils pour fixateur externe**



100-001-35L Drill Bit 3.5 mm extra long
100-001-45L Drill Bit 4.5 mm extra long



100-084-11 Combination Wrench with across flats 11 mm



145-008-68 Simple T-Handle for steinmann pin insertion



145-012-11 Socket Wrench with across flats 11 mm
180 mm long. For threaded conical bolts
and external fixator



145-013-03 Hexagonal Allen Key

Instruments for External Fixator
Instrumente für externe Fixateur
Instrumentos para Fijador Externo
Strumenti per Fissatore Esterno
Outils pour fixateur externe



145-015-35 Trocar with point Ø 3.5 mm short



145-018-35 Trocar for aiming device 3.5 long



145-022-50 Drill sleeve 5.0 / 3.5 mm 80 mm long



145-025-50 Drill sleeve 5.0 / 3.5 mm 100 mm long



145-028-60 Drill sleeve 6.0 / 5.0 mm 80 mm long



145-032-60 Drill sleeve 6.0 / 5.0 mm 100 mm long



145-035-80 Bar with hook and sliding drill Ø 3.5 mm, 80 mm long



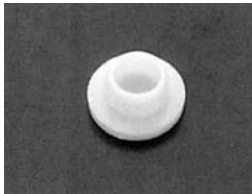
145-038-11 Check Tube for Device Alignment

External Fixator Clamps / Rods
externe Fixateur Klammern / Stäbchen
Clamps / Barras para Fijador Externo
Morsetti / Barre per Fissatore Esterno
Pinces / tiges pour fixateur externe

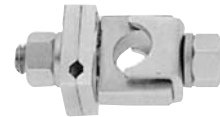


Tubes 11 mmØ

145-111-10	100 mm length
145-111-12	125 mm length
145-111-15	150 mm length
145-111-20	200 mm length
145-111-25	250 mm length
145-111-30	300 mm length
145-111-35	350 mm length
145-111-40	400 mm length
145-111-45	450 mm length
145-111-50	500 mm length
145-111-55	550 mm length
145-111-60	600 mm length



145-120-11 Plug for Tubes



145-155-65 Single Adjustable Clamp



145-157-05 Single Open Clamp
 with one nut for tightening both tube and Steinmann Pin can also be mounted on tubes after External fixator is assembled i.e. for three-dimensional fixation



145-160-02 Universal Joint for two tubes
 for connecting two tubes



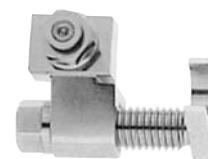
145-163-12 Single Adjustable Clamp



145-167-11 11 mm Tubes-to tube Clamp

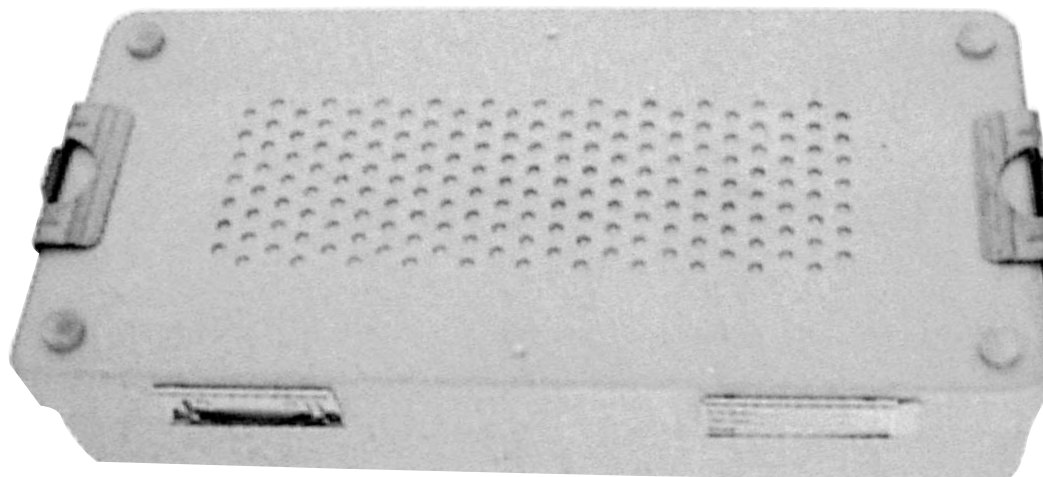


145-170-03 Universal Tube, compatible



145-172-04 Open Compressor

Small External Fixator for Hand and Forearm
kleine externe Fixateur für Hand und Unterarm
Pequeño Fijador Externo Para Mano y Antebrazo
Piccolo Fissatore Esterno Per Mano e Avambraccio
Petit fixateur externe pour main et avant-bras



D-145-03	Small External Fixator for Hand forearm	
196-024-14	Small Aluminium Case, perforated 300 x 140 x 70 mm	
196-028-00	Trays for small instruments (2 pieces)	
100-003-20	Drill Bit 2.0 mm	2 pieces
100-003-25	Drill Bit 2.5 mm	2 pieces
145-502-07	Combination Wrench width across flats 7 mm	1 pieces
145-507-07	Socket wrench 7 mm	1 pieces
145-510-48	Drill Sleeve complete	1 pieces
	Connecting Bars 4.0 mm	
145-550-06 To	2 each: 60 - 160 - 180 - 200 mm	
145-550-14	4 each: 80 - 100 - 120 - 140 mm	24 pieces
145-565-02	Clamps Open	4 pieces
145-568-04	Clamps	12 pieces
145-575-07	Springloaded Nut	2 pieces
145-340-08	Schanz Screw 4.0 x 80 mm	4 pieces
130-015-16	Kirschner Wire 1.6 x 150 mm	10 pieces
130-015-20	Kirschner Wire 2.0 x 150 mm	10 pieces
130-050-15	Kirschner Wire with thread 15 mm, 2.5 x 200 mm	10 pieces

Small External Fixator Instruments

kleine externe Fixateur Instrumente

Instrumentos para Fijadores Externos Pequeños

Strumenti per Fissatore Esterno Piccolo

Petits outils de fixation externe



100-003-20 Drill Bit 2.0 mm
100-003-25 Drill Bit 2.5 mm



145-502-07 Combination Wrench,
width across flats, 7 mm



145-507-07 Socket Wrench,
Width across flats, 7 mm



145-510-48 Drill Sleeve complete



145-512-50 Drill sleeve 5.0 / 4.0 mm



145-513-40 Drill sleeve 5.0 / 4.0 mm



145-514-27 Trokar, Ø 2.7 mm



Connecting bars, 4.0 mm diam.
Stainless steel

145-550-06 60 mm
145-550-08 80 mm
145-550-10 100 mm
145-550-12 120 mm
145-550-14 140 mm
145-550-16 160 mm
145-550-18 180 mm
145-550-20 200 mm



145-565-02 Clamp Open 2.5 - 5.0 mm Ø



145-568-04 Clamp 2.5 - 5.0 mm Ø



145-572-05 Open Compressor



145-575-07 Spring loaded Nut



145-340-08 Schanz screws 4.0 mm x 80 mm

**Scalpel Handles
Skalpellgriffe
Mangos de Bisturíes
Manici per Bisturi
Poignées de scalpel**



20.103.00
Fig. 3



20.103.02
Fig. 3L



20.104.00
Fig. 4



20.104.02
Fig. 4L



20.107.00
Fig. 7



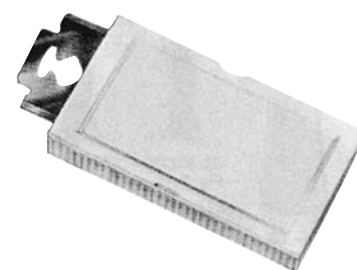
20.290.09
Trouman.Chris
90 mm



20.291.11
110 mm



20.294.13
Castroviejo
130 mm



20.296.00
In packages of 10 Pcs

Scissors Scheren Tijeras Forbici Ciseaux



	Standard
22.102.10	105 mm
22.102.11	115 mm
22.102.13	130 mm
22.102.14	145 mm
22.102.15	155 mm
22.102.16	165 mm
22.102.18	185 mm
22.102.20	200 mm



	Standard
22.110.10	105 mm
22.110.11	115 mm
22.110.13	130 mm
22.110.14	145 mm
22.110.15	155 mm
22.110.16	165 mm
22.110.18	185 mm
22.110.20	200 mm



	Standard
22.120.10	105 mm
22.120.11	115 mm
22.120.13	130 mm
22.120.14	145 mm
22.120.15	155 mm
22.120.16	165 mm
22.120.18	185 mm
22.120.20	200 mm



	Standard
22.103.11	115 mm
22.103.13	135 mm
22.103.14	145 mm
22.103.15	155 mm
22.103.16	165 mm
22.103.18	185 mm
22.103.20	200 mm

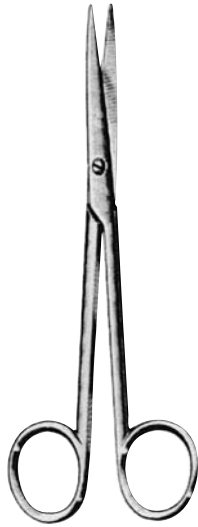


	Standard
22.111.11	115 mm
22.111.13	135 mm
22.111.14	145 mm
22.111.15	155 mm
22.111.16	165 mm
22.111.18	185 mm
22.111.20	200 mm



	Standard
22.121.11	115 mm
22.121.13	135 mm
22.121.14	145 mm
22.121.15	155 mm
22.121.16	165 mm
22.121.18	185 mm
22.121.20	200 mm

Scissors Scheren Tijeras Forbici Ciseaux



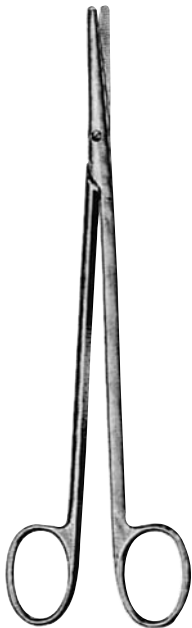
22.190.16 160 mm
22.190.21 210 mm
22.194.16 TC 160 mm
22.194.21 TC 210 mm



22.191.16 160 mm
22.191.21 210 mm
22.195.16 TC 160 mm
22.195.21 TC 210 mm

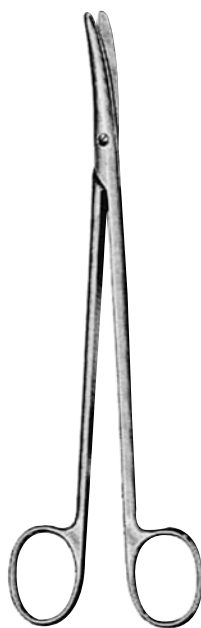


22.202.10 Lexer.Baby
22.203.10 100 mm straight
22.206.10 TC 100 mm straight
22.207.10 TC 100 mm curved



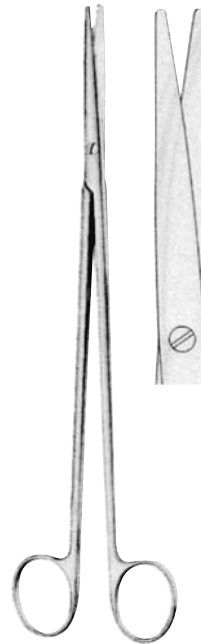
Metzenbaum

22.280.15 150 mm
22.280.18 180 mm
22.280.20 200 mm
22.280.23 230 mm
22.280.25 250 mm
22.280.28 280 mm
22.280.30 300 mm
22.284.15 TC 150 mm
22.284.18 TC 180 mm
22.284.20 TC 200 mm
22.284.23 TC 230 mm
22.284.25 TC 250 mm
22.284.28 TC 280 mm
22.284.30 TC 300 mm



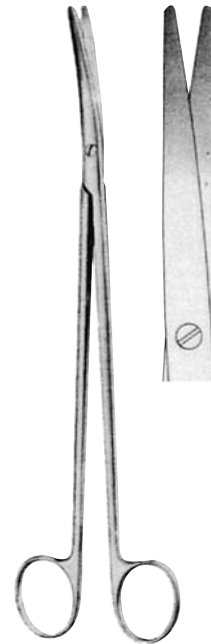
Metzenbaum

22.281.15 150 mm
22.281.18 180 mm
22.281.20 200 mm
22.281.23 230 mm
22.281.25 250 mm
22.281.28 280 mm
22.281.30 300 mm
22.285.15 TC 150 mm
22.285.18 TC 180 mm
22.285.20 TC 200 mm
22.285.23 TC 230 mm
22.285.25 TC 250 mm
22.285.28 TC 280 mm
22.285.30 TC 300 mm



Metzenbaum Fino

22.282.15 150 mm
22.282.18 180 mm
22.282.20 200 mm
22.282.23 230 mm
22.286.15 TC 150 mm
22.286.18 TC 180 mm
22.286.20 TC 200 mm
22.286.23 TC 230 mm



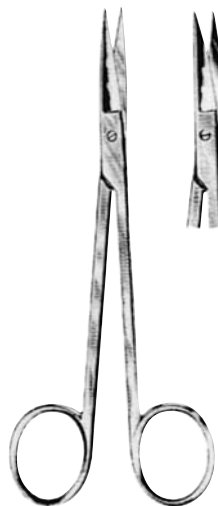
Metzenbaum Fino

22.280.15 150 mm
22.280.18 180 mm
22.280.20 200 mm
22.280.23 230 mm
22.284.15 TC 150 mm
22.284.18 TC 180 mm
22.284.20 TC 200 mm
22.284.23 TC 230 mm

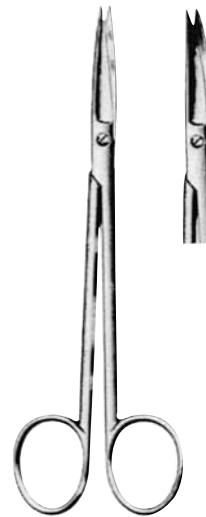
Scissors Scheren Tijeras Forbici Ciseaux



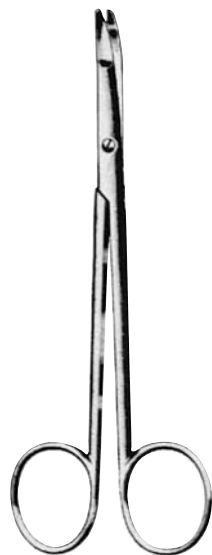
22.291.18 Metzenbaum "S"
180 mm
22.295.18 TC 180 mm



22.302.14 Sanvenero
straight
22.303.14 curved



22.304.14 Joseph
straight
22.305.14 curved



22.310.12 Kilner
120 mm
22.310.15 150 mm
22.314.12 TC 120 mm
22.314.15 TC 150 mm



22.320.14 Reynolds
straight
22.321.14 curved
22.324.14 TC straight
22.326.14 TC curved



22.340.09 90 mm, 110 mm
straight
22.340.11 straight
22.341.09 curved
22.341.11 curved
22.344.11 TC straight
22.345.11 TC curved

**Plaster Scissors
Pflasterscheren
Tijeras para Yeso
Forbici per Gesso
Ciseaux pour plâtres**



194-230-14 Lister
140 mm
194-230-18 180 mm
194-230-20 200 mm



194-223-23
Bergmann
230 mm



194-250-20 Esmarch
200 mm
194-250-22 220 mm



194-200-19
Excenter
190 mm



194-155-14
Knowles
140 mm



194-195-23
Lorenz
230 mm



194-122-20 Bruns, 230 mm
straight
194-122-35 serrated



194-130-21
Mod. Seutin
210 mm



194-255-15 Universal
150 mm
194-255-18 180 mm

Micro Scissors Mikroschere Micro Tijeras Micro Forbici Micro-ciseaux



22.971.11

22.972.11

Westcott, 110 mm

22.971.11 Westcott
Tenetomy Scissors, Pointed straight
22.972.11 Tenetomy Scissors, blunt curved



22.973.10

Castroviejo, 100 mm

22.973.10 Castroviejo
Corneal Scissors, slightly
curved, blunt



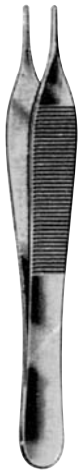
22.975.10

22.977.10

Castroviejo, 100 mm

22.975.10 Castroviejo
Corneal Scissors
Curved, blunt
22.977.10 Curved, sharp

**Tissue Forceps
Gewebe Pinzetten
Pinzas de Disección con Dientes
Pinze Chirurgiche
Pinces pour tissus**



24.170.12 Adson 120 mm
24.174.12 TC 120 mm
24.170.15 150 mm
24.174.15 TC 150 mm



24.176.12
 Adson. Micro
 120 mm



24.220.17
 Cushing
 170 mm



24.180.12 Adson 120 mm
24.180.15 150 mm



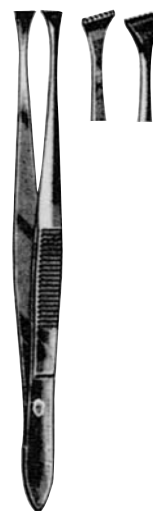
24.186.12
 Adson
 120 mm



24.188.12
 Adson. Brown
 120 mm



24.189.16 Brown 160 mm
24.189.20 200 mm
24.189.25 250 mm

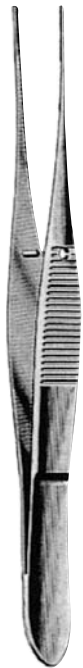


24.190.10
 Graefe
 105 mm



24.230.17
 Cushing
 170 mm

**Tissue Forceps
Gewebe Pinzetten
Pinzas de Disección con Dientes
Pinze Chirurgiche
Pincers pour tissus**



Graefe
100 mm



24.411.10



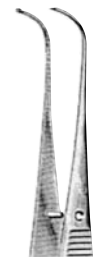
24.413.10



24.420.10



24.421.10



24.423.10



Stevens
105 mm



24.431.10



24.433.10



24.440.10



24.441.10



24.443.10

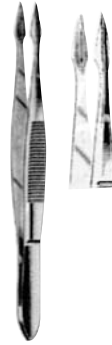
Tissue Forceps
Gewebe Pinzetten
Pinzas de Disección con Dientes
Pinze Chirurgiche
Pinces pour tissus



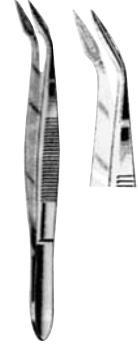
24.802.09 90 mm
24.802.11 115 mm



24.810.07 Feilchenfeld 75 mm
24.810.11 115 mm



24.812.10 Hunter 105 mm



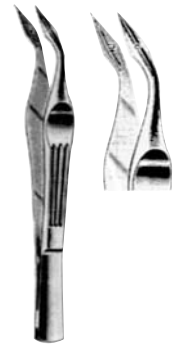
24.813.10 Hunter 105 mm



24.815.12 125 mm



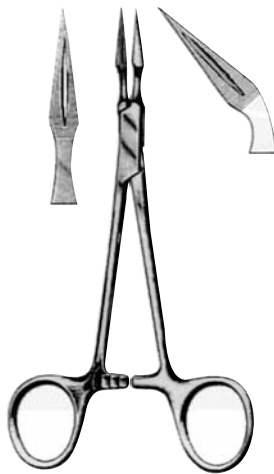
24.816.10 Carmalt 105 mm



24.817.10 Carmalt 105 mm



24.821.11 Peet 115 mm



24.822.13 Stiegletz 135 mm straight
24.823.13 curved



24.824.14 Archer 140 mm straight
24.825.14 curved



24.828.15 Archer (Ralk) 150 mm

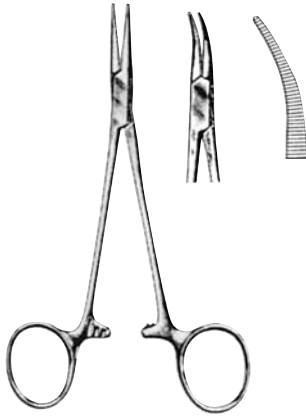
Artery Forceps

Arterienunterbindungspinzette

Pinzas Hemostáticas

Pinze Emostatiche

Pinces pour artères



Halstead Mosquito

	straight
26.220.12	125 mm
26.220.14	150 mm
26.220.18	180 mm
26.220.21	210 mm

	curved
26.221.12	125 mm
26.221.14	150 mm
26.221.18	180 mm
26.221.21	210 mm



Halstead Mosquito Micro

26.222.12	125 mm straight
26.223.12	125 mm curved



Halstead Mosquito Toothed

	straight
26.230.12	125 mm
26.230.14	150 mm
26.230.18	180 mm
26.230.21	210 mm

	curved
26.231.12	125 mm
26.231.14	150 mm
26.231.18	180 mm
26.231.21	210 mm



Halstead Mosquito Micro Toothed

26.232.12	125 mm straight
26.233.12	125 mm curved

Towel Clips / Dressing Forceps
Tuchklammer / Kornzange
Pinzas de Campo / Pinzas para Tapones
Pinze Fissateli / Pinze per Tamponi
Pinces à serviette / pinces à mors



28.101.09
Schaedel, 90 mm



28.103.09
Jones, 90 mm



28.105.09
Jones-Clip 90 mm



28.111.09 Backhaus 90 mm
28.111.11 110 mm
28.111.13 130 mm
28.111.15 150 mm



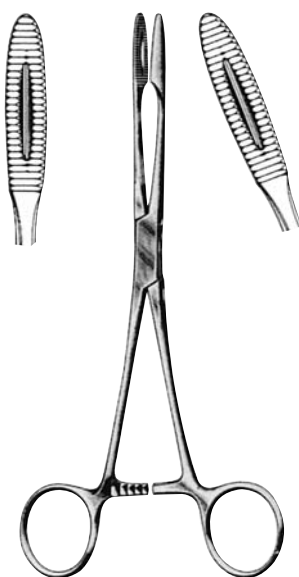
28.115.11
Backhaus-Clip
110 mm



28.117.13
Roeder
130 mm



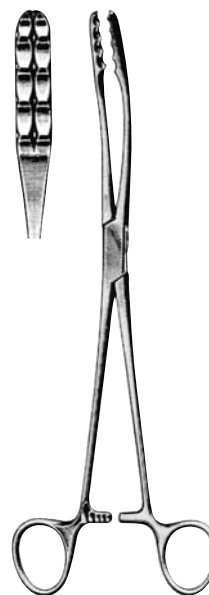
28.121.11 Lorna 110 mm
28.121.13 130 mm



30.110.20 Gross-Maier 200 mm straight
30.110.25 250 mm straight
30.111.20 130 mm curved
30.111.25 150 mm curved

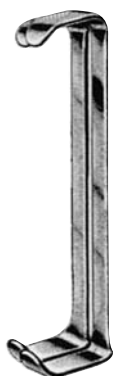


30.160.20 Ulrich 200 mm straight
30.160.25 250 mm straight



30.161.20 Ulrich 200 mm curved
30.161.25 250 mm curved

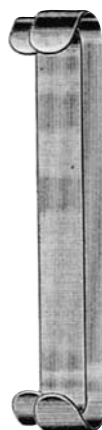
Retractors Haken Separadores Divaricatori Écarteurs



32.102.12
Farabeuf
120 mm



32.102.15
Farabeuf
150 mm



32.110.13
Parker
135 mm



32.110.18
Parker
180 mm

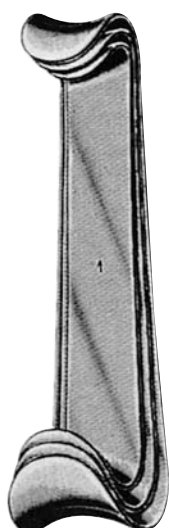


Fig. 1 = 24 mm x 20 mm
Fig. 2 = 29 mm x 26 mm
Fig. 3 = 35 mm x 39 mm

Fig. 1 = 30 mm x 28 mm
Fig. 2 = 36 mm x 36 mm
Fig. 3 = 38 mm x 43 mm

32.120.00 Roux Fig.
32.120.14 140 mm 1
32.120.15 150 mm 2
32.120.17 170 mm 3



32.122.13
Roux Baby
130 mm

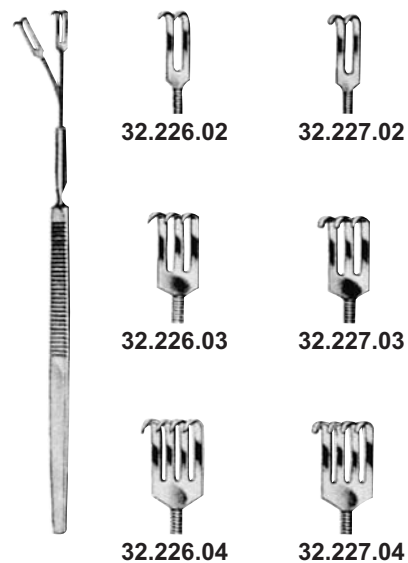
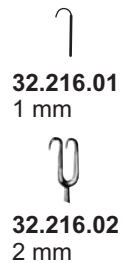
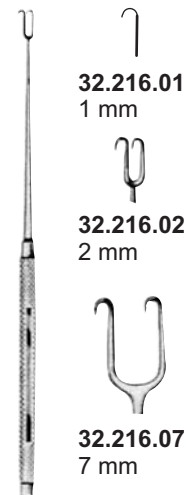


32.124.15
Roux Mini
150 mm

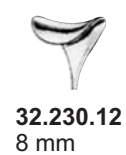


32.127.11
Crile
115 mm

Retractors Haken Separadores Divaricatori Écarteurs



Retractors Haken Separadores Divaricatori Écarteurs



32.230.12
8 mm



32.230.14
14 mm



32.230.16
16 mm



32.230.18
18 mm



Cushing, 200 mm



160-146-08
8 mm



160-146-12
12 mm



160-146-16
16 mm



160-146-10
10 mm



160-146-14
14 mm



160-146-18
18 mm



10 mm x 6 mm



20 mm x 6 mm

32.240.10
32.240.20

Senn - Green
10 mm x 6 mm
20 mm x 6 mm



160-027-22
Cushing Vein Retractor 225 mm
with fenestrated handle
Blade 12 mm width x 10 mm



160-030-21
Cushing Retractor 215 mm
with fenestrated blade and handle
Blade 13 mm width x 22 mm

Retractors

Haken

Separadores

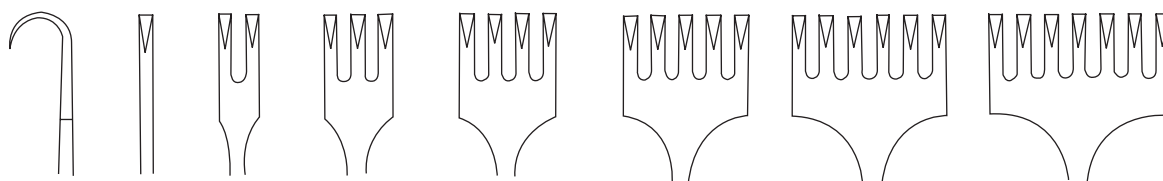
Divaricatori

Écarteurs



Volkmann 215 mm

Sharp



100-408-01

100-408-02

100-408-03

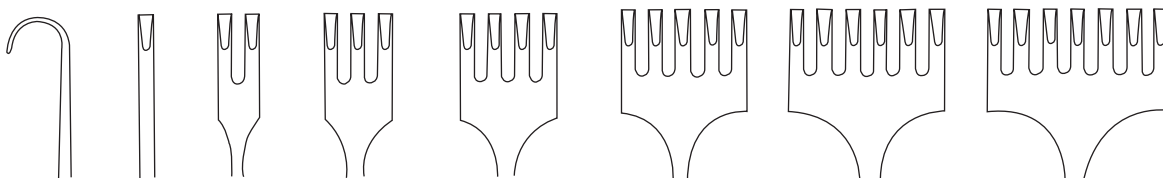
100-408-04

100-408-05

100-408-06

100-408-07

Blunt



100-409-01

100-409-02

100-409-03

100-409-04

100-409-05

100-409-06

100-409-07



160-154-01
18 mm x 7 mm



160-154-02
16 mm x 5 mm



160-154-03
7 mm x 4 mm



160-154-04
7 mm x 4 mm



160-154-05
10 mm x 3 mm



160-154-06
10 mm x 4 mm



Meyerding, 180 mm

28 mm x 6 mm



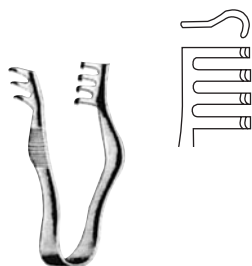
32.304.19
Lahey, 190 mm

7 mm x 18 mm

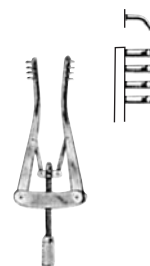


160-306-19
Little, 190 mm

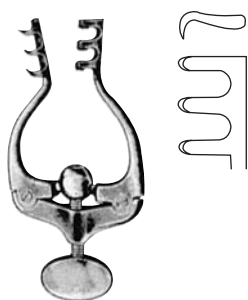
Self-Retaining Retractors Selbsthaltende Retraktor Separadores Autoestáticos Divaricatori Autostatici Écarteurs autostatiques



32.900.07 Finsen, 70 mm sharp
32.902.07 blunt



32.904.07 ALM sharp
32.906.10 70 mm
32.908.07 100 mm
32.910.10 blunt



32.912.10 Jansen
100 mm



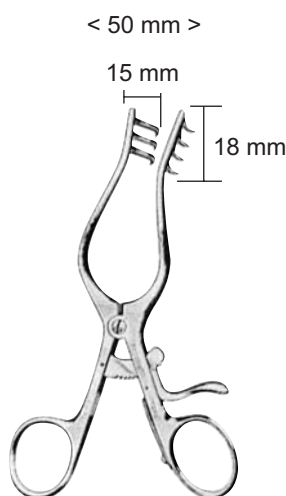
32.914.10 Jansen
100 mm



32.916.10 100 mm sharp
32.928.10 blunt



32.920.10 Weitlaner, 115 mm sharp
32.922.10 blunt



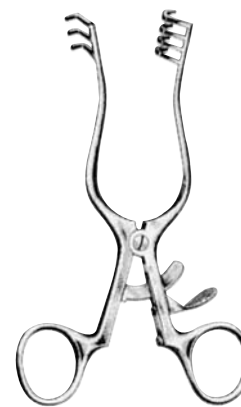
32.930.13 Weitlaner-Wullstein sharp
32.932.13 blunt



32.934.11 Plester
110 mm



32.936.11 Plester
110 mm



100-940-04 Weitlaner blunt
100-942-04 sharp
3 x 4 prong

Spreaders / Retractors
Spritzgeräte / Retraktor
Separadores Autoestáticos
Divaricatori Autostatici
Écarteurs



160-122-13
 Cloward, 130 mm



160-125-16
 Inge, 160 mm



160-125-05 Inge, 260 mm
160-125-10 Jaw width 5 mm
 Jaw width 10 mm



160-062-13 Gelpi
 135 mm
160-062-17 170 mm
 sharp



100-481-09
 Weitlaner
 165 mm
 sharp
 3 x 4 prongs 16 mm deep



160-080-13
 Beckmann-Weitlaner
 160 mm
 sharp
 3 x 4 prongs 13 mm deep

Needle Holders

Nadelhalter

Porta-Agujas

Porta Aghi

porte-aiguilles



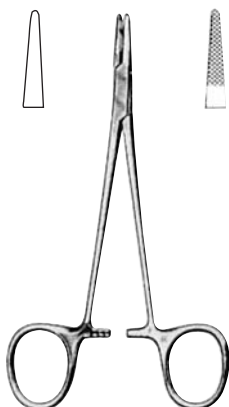
Derf
34.110.12 120 mm
34.114.12 TC 120 mm



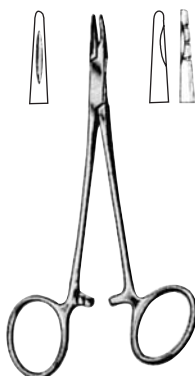
Derf
34.120.12 125 mm



Collier
34.122.12 125 mm



Halsey
34.130.13 34.140.13
34.134.13 TC 34.144.13 TC



Neivert
34.146.14



Baumgartner
34.150.12 125 mm
34.150.14 140 mm
34.154.12 TC 125 mm
34.154.14 TC 140 mm

Needle Holders

Nadelhalter

Porta-Agujas

Porta Aghi

porte-aiguilles



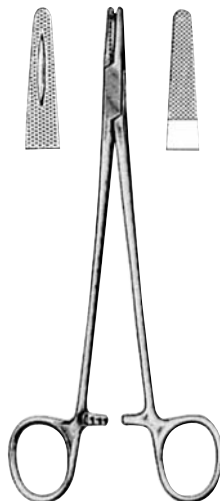
Crile-Wood

34.160.15	150 mm	34.164.15 TC	150 mm
34.160.18	180 mm	34.164.18 TC	180 mm
34.160.20	200 mm	34.164.20 TC	200 mm



Crile-Murray

34.170.15	150 mm
34.174.15 TC	150 mm



Mayo-Hegar

34.180.14	140 mm	34.184.14 TC	140 mm
34.180.16	160 mm	34.184.16 TC	160 mm
34.180.18	180 mm	34.184.18 TC	180 mm
34.180.20	200 mm	34.184.20 TC	200 mm
34.180.24	240 mm	34.184.24 TC	240 mm
34.180.26	260 mm	34.184.26 TC	260 mm
34.180.30	300 mm	34.184.30 TC	300 mm



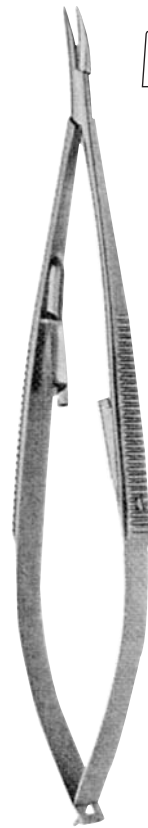
Mayo-Hegar

34.190.16	160 mm	34.194.16 TC	160 mm
34.190.18	180 mm	34.194.18 TC	180 mm
34.190.20	200 mm	34.194.20 TC	200 mm

Micro Needle Holders
Mikronadelhalter
Micro-Porta-Agujas
Porta Aghi Micro
Micro-porte-aiguilles



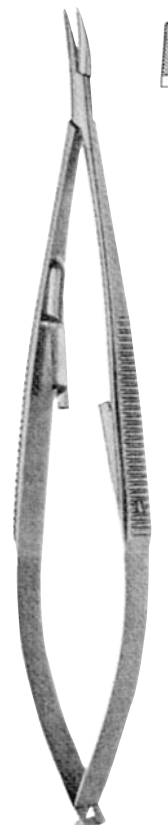
34.691.14 Castroviejo, 140 mm



34.692.14 Castroviejo, 140 mm



34.693.14 Castroviejo, 140 mm



34.694.14 Castroviejo, 140 mm

Ligature Needles
Unterbindungsnadel
Agujas para Ligaduras
Aghi per Legature
Aiguilles à ligature



Deschamps, left
36.110.21 210 mm
36.110.24 240 mm
36.110.27 270 mm



Deschamps, right
36.111.21 210 mm
36.111.24 240 mm
36.111.27 270 mm



Deschamps, left
36.120.21 210 mm
36.120.24 240 mm
36.120.27 270 mm



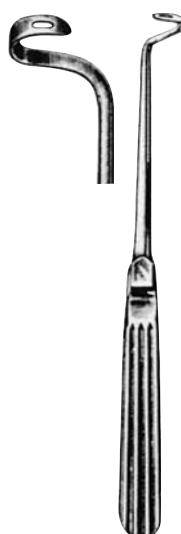
Deschamps, right
36.121.21 210 mm
36.121.24 240 mm
36.121.27 270 mm



36.130.13
 Kronecker, left
 130 mm



36.131.13
 Kronecker, right
 130 mm



Nelson, 245 mm
36.133.24 right
36.135.24 left



36.139.19
 Cooper
 190 mm

Probes / Dissectors
Sonde / Dissektor
Sondas / Disectores
Sonde / Dissettori
Sondes / décorticateurs



Ø 2 mm
38.102.11 105 mm
38.102.13 115 mm
38.102.14 145 mm
38.102.16 160 mm
38.102.18 180 mm
38.102.20 200 mm
38.102.25 250 mm



Ø 1 mm
38.104.11 105 mm
38.104.13 115 mm
38.104.14 145 mm
38.104.16 160 mm
38.104.18 180 mm
38.104.20 200 mm
38.104.25 250 mm



Ø 2 mm
38.106.11 105 mm
38.106.13 115 mm
38.106.14 145 mm
38.106.16 160 mm
38.106.18 180 mm
38.106.20 200 mm
38.106.25 250 mm



38.108.14
 145 mm



38.110.13 130 mm
38.110.14 145 mm
38.110.16 160 mm
38.110.18 180 mm
38.110.20 200 mm
38.110.25 250 mm



38.111.14
 Doyen, 130 mm



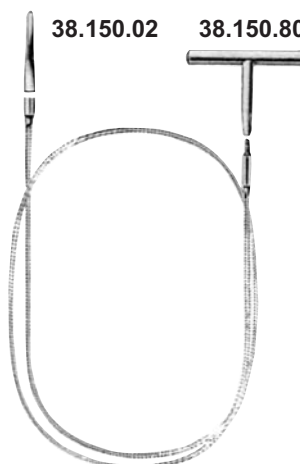
38.112.14
 Doyen, 140 mm



38.115.10
 Stacke, 105 mm



38.150.00 Nabatoff
 135 x 100 x 25 mm
 compl.



38.150.90
 Varicose - vein probe set



38.150.03
 Ø 3 mm



38.150.06
 Ø 6 mm



38.150.09
 Ø 9 mm



38.150.12
 Ø 12 mm



38.150.15
 Ø 15 mm

External Fixator Set

Externes Fixateur Set

Set para Fijador Externo

Set per Fissatore Esterno

Jeu de fixateurs externes

Indications :

Fractures of the shaft, simple or comminuted

Intraarticular fractures

Compound fractures

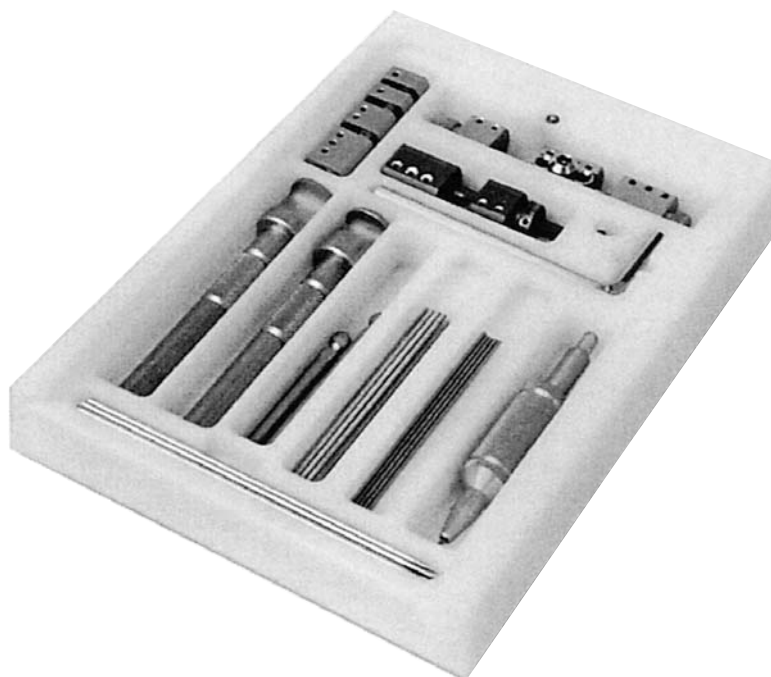
Trauma or tumor -related bone defects of the carpus, metacarpus or phalanges

Arthrodosis

Distraction osteogenesis (i.e lengthening of the thumb)

Metacarpal segment transport

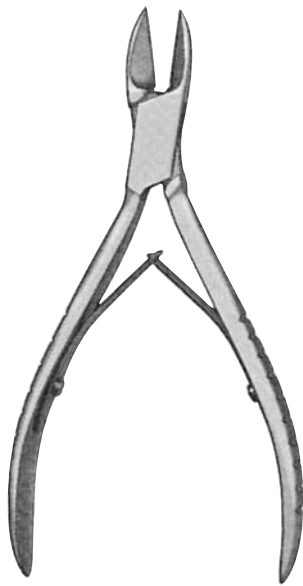
Callotaxis lengthening of the capitate after resection of the lunate bone (for treatment of Kienbock's diseases, stage iii)



D-150-01 Hand / Finger and Mandibular Fixator Set

150-005-01	Mini Ex. Fix type I	1
150-005-02	Mini Ex. Fix type II	1
150-005-03	Mini Ex. Fix type III	1
150-035-00	Teflon Steri Box	6
150-010-40	Threaded Rod 40 mm	2
150-010-50	Threaded Rod 50 mm	2
150-010-60	Threaded Rod 60 mm	2
150-007-60	Fixation Screws	2
150-025-15	Allen Key 1.5 mm	4
150-025-40	Allen Key 4.0 mm	4
150-028-01	Screw Driver	5
150-030-11	Holding Lever small	5
150-030-15	Holding Lever wide	5
150-012-18	Kirschner Wire Ø 1.8 mm 70 mm long, thread 30 mm	3
150-012-16	Kirschner Wire Ø 1.6 mm 70 mm long, thread 30 mm	3

Nail Splitters / Ingrown Forceps
Nagel Spalter / Eingewachsen Pinzette
Pinzas para Uñas / Cortadores para Uñas Encarnadas
Pinze per Unghie / Tronchesi per Unghie Incarnite
Répartiteurs de clous / forceps incarné



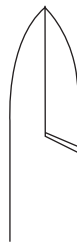
Nail Splitter



150-052-10
100 mm
Stainless



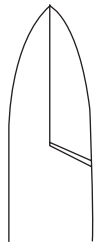
150-052-11
115 mm
Stainless



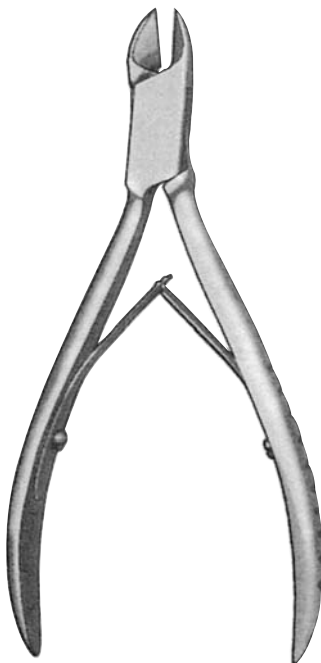
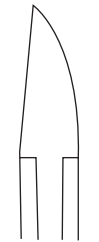
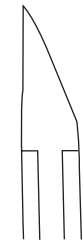
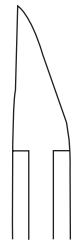
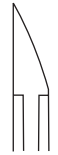
150-052-12
125 mm heavy jaw
Stainless



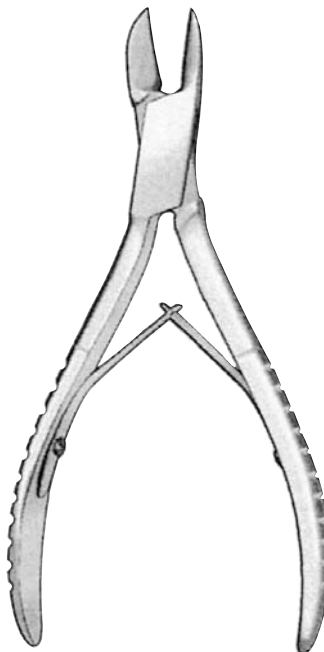
150-052-14
125 mm narrow jaw
Stainless



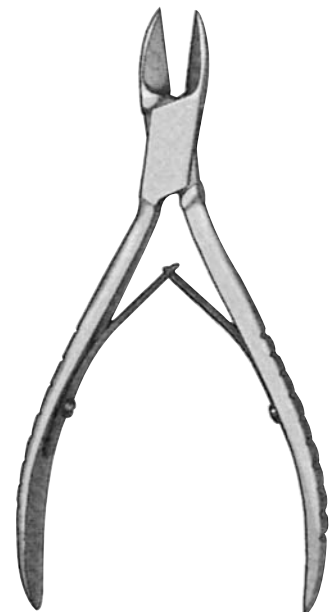
150-052-15
150 mm
Stainless



150-054-12
150-054-15
P.I. Short jaw
Nail Splitter
125 mm
150 mm
stainless

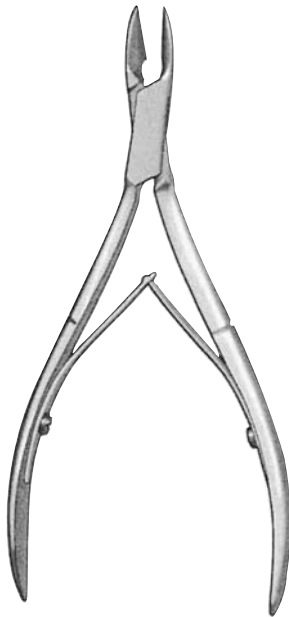


150-055-14
Nail Splitter
140 mm
stainless



150-058-10
150-058-11
Nail Splitter
100 mm
115 mm
tapered, stainless

Splitters / Nippers
Spalter / Zangen
Pinzas
Pinze
Séparateurs / pinces



Nail Splitter



150-064-06
 100 mm, 6 mm
 stainless



150-064-09
 100 mm, 9 mm
 stainless



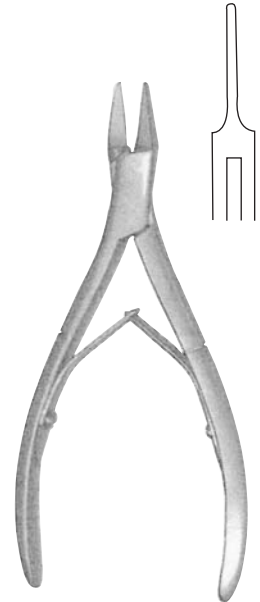
150-064-11
 115 mm, 11 mm
 stainless



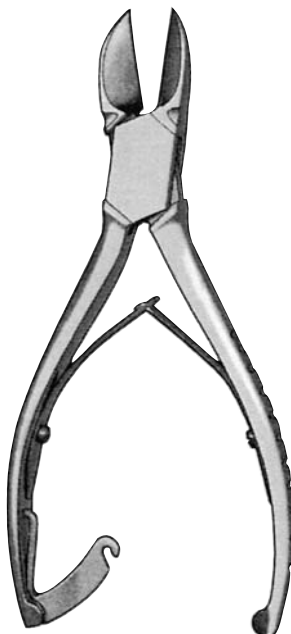
150-064-14
 125 mm, 14 mm
 stainless



Nail Nipper 140 mm
 angled concave
150-066-01 sharp end
150-066-02 blunt end



150-067-12
 Ingrown Nail Forceps
 125 mm
 narrow blade stainless



150-069-14
 Mycotic Nail Nipper
 140 mm
 stainless

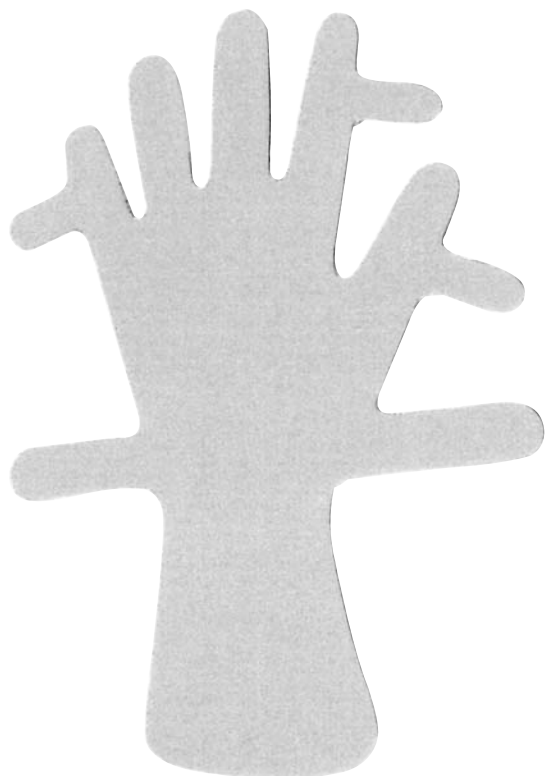


150-072-15
 Mycotic Nail Nipper
 150 mm, heavy
 stainless
 double action
 barrel spring



150-075-06
 Cuticle Nipper
 100 mm, 6 mm
 ring handle

Lead Hands, Finger Ring Saw & Instrument
Vorhand, Fingersäge & Instrumente
Manoplas de Plomo, Pinza - Sierra para Abrir Anillos y Instrumentos
Mani di Piombo, Seghe per Anelli e Strumenti
Attelle métalliques pour la main, scie et outils pour bague



150-080-01 Child Size
150-080-02 Adult Size



150-085-00 Ringer ring saw
150-085-02 150 mm
spore blade



150-087-14
Radolf, 140 mm
Nial extracting forceps



150-089-02
Nial extracting forceps
145 mm



150-092-00
Finger nail drill with 3 drill points



150-092-01
Drill points small

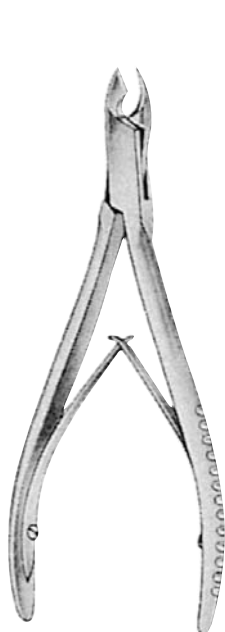


150-092-02
Medium

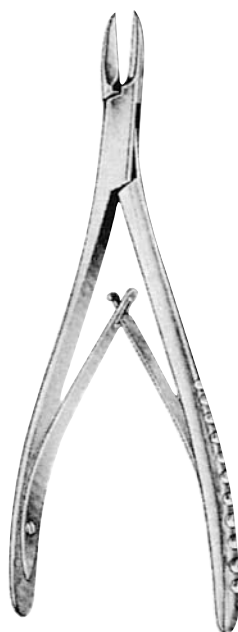


150-092-03
large

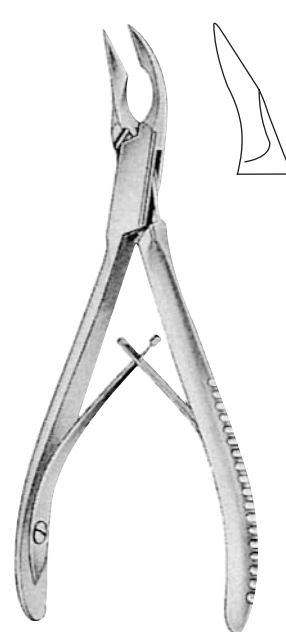
Bone Cutting Forceps
Knochenfräser Pinzetten
Cizallas para Huesos
Cesoie per Ossa
Pinces pour découpe osseuse



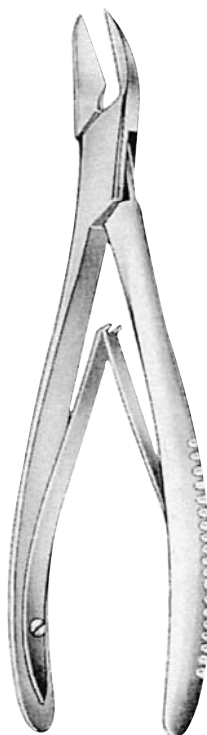
102-001-12 120 mm



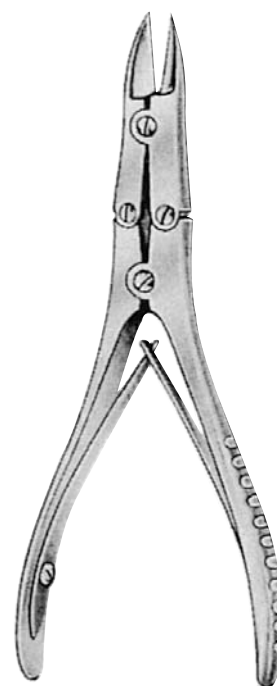
102-003-15 Littauer-Liston, 150 mm



102-005-15 Cleveland, 150 mm



102-006-17 Cleveland, 170 mm

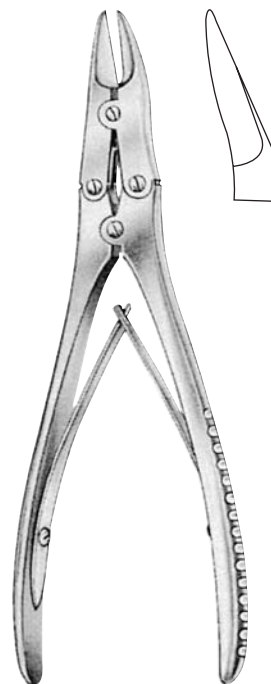


Walton-Liston
102-008-01 straight
102-008-02 curved

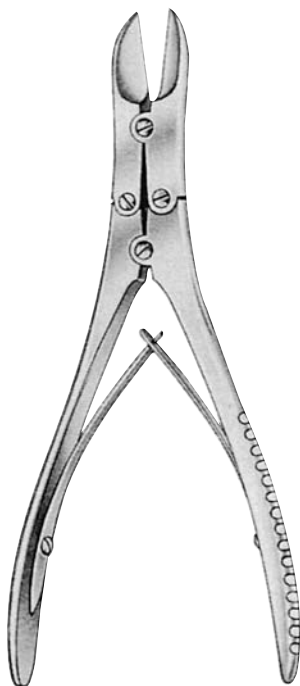
Bone Cutting Forceps
Knochenfräser Pinzetten
Cizallas para Huesos
Cesoie per Ossa
Pinces pour découpe osseuse



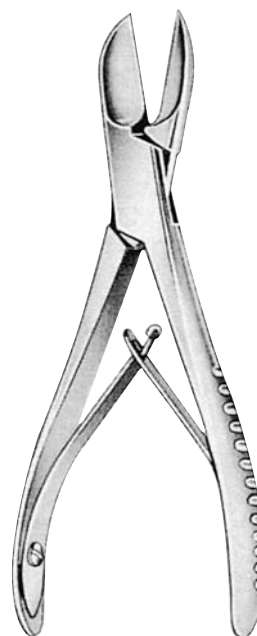
102-063-17 Schuardt, 170 mm



102-078-17 McIndoe, 175 mm

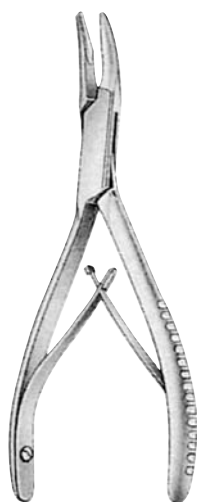


102-025-19 Ruskin-Liston 190 mm straight
102-026-19 Ruskin-Liston 190 mm curved



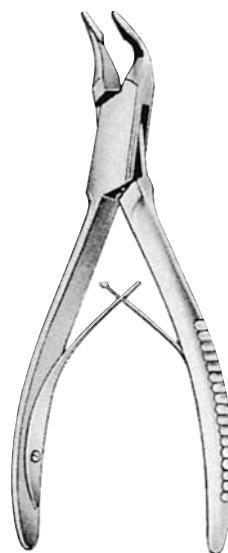
Liston Bone Cutting Forceps
120-010-14 140 mm Straight
120-010-17 170 mm Straight
120-010-19 190 mm Straight
120-010-22 220 mm Straight
120-011-14 140 mm curved
120-011-17 170 mm curved
120-011-19 190 mm curved
120-011-22 220 mm curved

Bone Nibblers Knochen nibbler Pinzas-Gubias Pinze Ossivore Pinces osseuses



Friedman

102-175-12 120 mm
102-175-14 140 mm



Blumenthal

102-178-15 155 mm
102-178-45 145 mm
102-178-90 190 mm



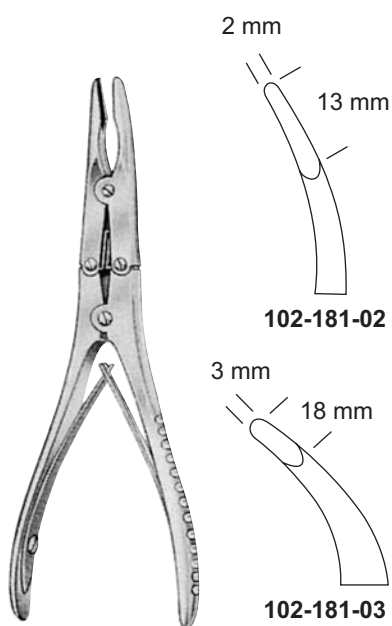
102-178-15
4 x 11



102-178-45
4 x 11



102-178-90
4 x 11



2 mm

13 mm

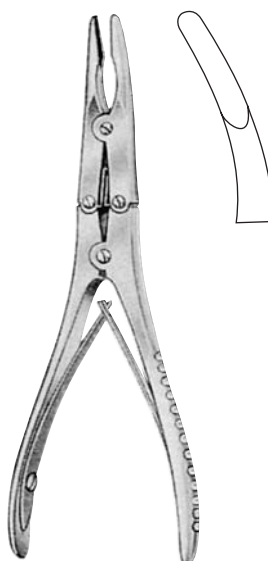
102-181-02

3 mm

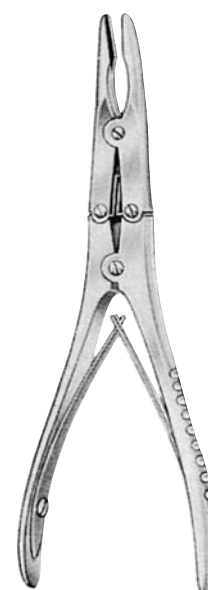
18 mm

102-181-03

Kleinert-Kutz
150 mm

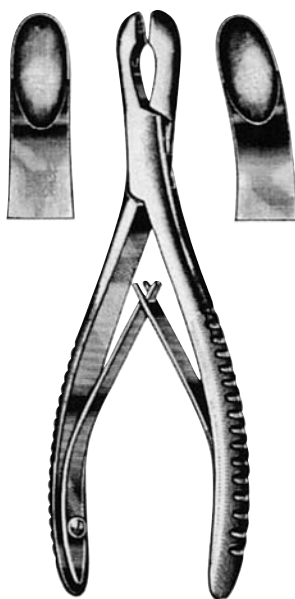


102-230-15
Ruskin-Mini
150 mm

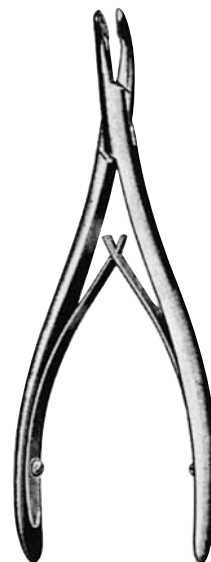


102-225-15 Bohler Rongeur 150 mm straight
102-226-15 Bohler Rongeur 150 mm curved

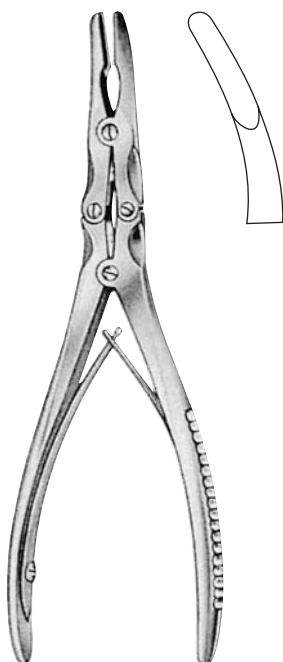
**Bone Nibblers
Knochennibbler
Pinzas-Gubias
Pinze Ossivore
Pincers osseuses**



102-207-17 Luer 170 mm straight
102-208-17 Luer 170 mm curved



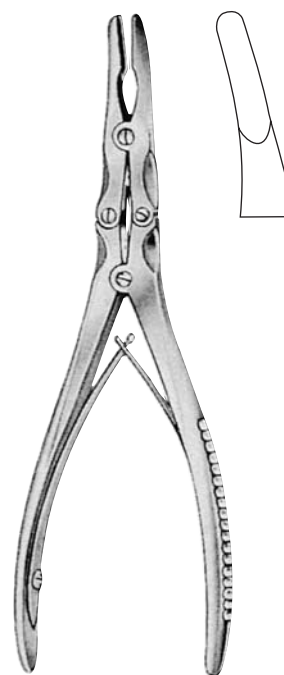
102-215-19 Lempert 190 mm straight
102-216-19 Lempert 190 mm curved
102-215-16 Lempert 160 mm straight
102-216-16 Lempert 160 mm curved



102-219-03 Beyer, 180 mm



102-231-07 Ruskin, 180 mm



102-235-19 Zaufal-Jansen, 190 mm

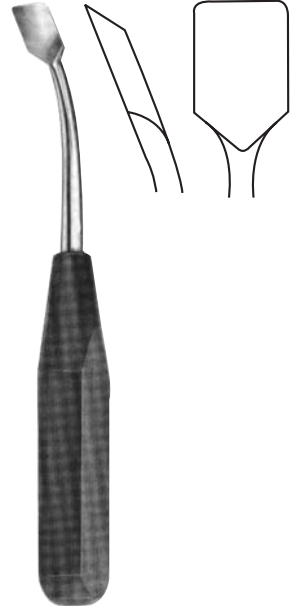
**Periosteal Elevators
Raspatorium
Elevadores Periósticos
Elevatori Periostali
Releveurs périostaux**



100-725-14
Medium straight blade
round edge, width 14 mm



100-727-14
Medium curved blade
round edge, width 14 mm



100-728-14
100-729-14
Medium Blade
Straight Edge, 14 mm
Straight 185 mm
Curved 185 mm



100-732-14
large straight blade
round edge, width 20 mm



100-735-06
Small curved blade
round edge, width 6 mm



100-740-06
Small curved blade
straight edge, width 6 mm



100-742-03
Extra small curved blade
round edge, width 3 mm

Elevators Elevatorium Elevadores Elevatori Releveurs



160-228-18
Freer Elevator
185 mm double ended
5 mm sharp / blunt end

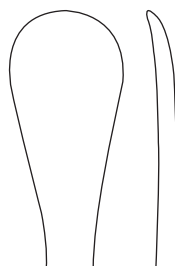


7 mm



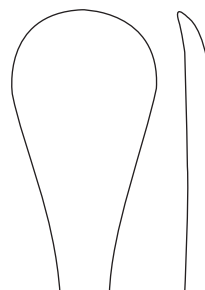
160-271-07
160 mm

15 mm



160-271-15
190 mm

20 mm



160-271-20
200 mm



100-756-13 Williger, 130 mm



100-757-16 Williger, 160 mm



160-215-17 Sebilleau, 175 mm

Bone Currettes
Scharfer Löffel
Cucharillas Cortantes
Curette Taglienti
Curettes osseuses



 
150-210-01

 
150-210-02

 
150-210-03

Williger
 135 mm



 
150-218-01

 
150-218-02

 
150-218-03

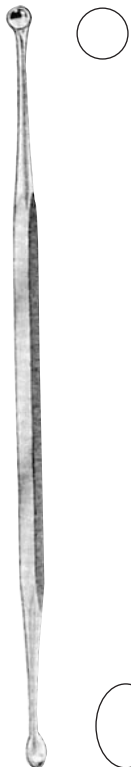
Martini
 135 mm



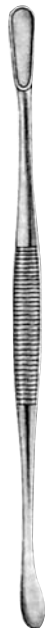
150-222-16
 Jansen, 160 mm



150-223-15
 Jansen, 150 mm



150-228-21
 210 mm



 
150-233-13
 130 mm

 
150-233-14
 140 mm

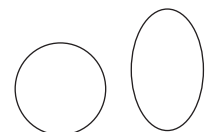
 
150-233-17
 170 mm

Volkmann



 
150-238-13
 130 mm

 
150-238-16
 160 mm



150-238-20
 200 mm

Volkmann

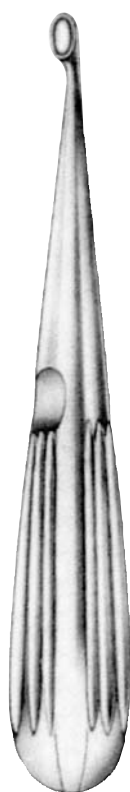
Bone Currettes

Scharfer Löffel

Cucharillas Cortantes

Curette Taglienti

Curettes osseuses



Spratt

0
Fig. 0000
100-801-40

0
Fig. 000
100-801-30

0
Fig. 00
100-801-20

0
Fig. 0
100-801-10

0
Fig. 1
100-801-01

0
Fig. 2
100-801-02

0
Fig. 3
100-801-03

0
Fig. 4
100-801-04

0
Fig. 5
100-801-05



Bruns

0
Fig. 0000
100-804-40

0
Fig. 000
100-804-30

0
Fig. 00
100-804-20

0
Fig. 0
100-804-10

0
Fig. 1
100-804-01

0
Fig. 2
100-804-02

0
Fig. 3
100-804-03

0
Fig. 4
100-804-04

0
Fig. 5
100-804-05

0
Fig. 6
100-804-06



Fiber Handle 270 mm

Fig.0
100-825-10

Fig.1
100-825-01

Fig.2
100-825-02

Fig.3
100-825-03



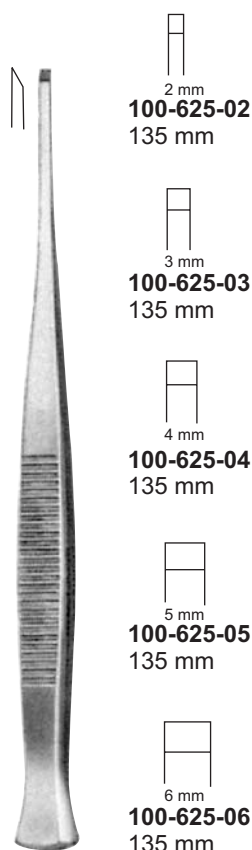
Scoville 250 mm

100-830-00
Straight

100-830-03
Down Angle

100-830-04
Up Angle

Chisels / Osteotomes Meißel / Osteotomien Gubias / Osteotomos Scalpelli / Osteotomi Ciseaux / Ostéotomes



Parsch

2 mm
100-625-02
135 mm

3 mm
100-625-03
135 mm

4 mm
100-625-04
135 mm

5 mm
100-625-05
135 mm

6 mm
100-625-06
135 mm

2 mm
100-626-02
170 mm

3 mm
100-626-03
170 mm

4 mm
100-626-04
170 mm

5 mm
100-626-05
170 mm

6 mm
100-626-06
170 mm



Alexander 180 mm

4 mm
100-628-04

10 mm
100-628-10

6 mm
100-628-06

12 mm
100-628-12

8 mm
100-628-08

14 mm
100-628-14



Hibbs Chisel
stainless steel handle

225 mm straight
160-350-06 6 mm
160-350-09 9 mm
160-350-12 12 mm
160-350-15 15 mm
160-350-18 18 mm
160-350-20 20 mm
160-350-25 25 mm
160-350-30 30 mm
160-350-35 35 mm
160-350-40 40 mm

225 mm curved
160-351-06 6 mm
160-351-09 9 mm
160-351-12 12 mm
160-351-15 15 mm
160-351-18 18 mm
160-351-20 20 mm
160-351-25 25 mm
160-351-30 30 mm
160-351-35 35 mm
160-351-40 40 mm



Stille

100-635-10
100-635-12
100-635-15
100-635-20
100-635-25

Chisels
10 mm
12 mm
15 mm
20 mm
25 mm

100-636-10
100-636-12
100-636-15
100-636-20
100-636-25

Osteotome
10 mm
12 mm
15 mm
20 mm
25 mm



100-640-02 170 mm length 2 mm width
100-640-05 170 mm length 5 mm width
100-640-10 170 mm length 10 mm width

Mini- Lambotte



Lambotte

100-642-10 Straight 10 mm
100-642-15 Straight 15 mm
100-642-20 Straight 20 mm
100-642-25 Straight 25 mm
100-642-30 Straight 30 mm
100-642-38 Straight 38 mm
100-642-44 Straight 44 mm
100-642-50 Straight 50 mm

100-643-10 Curved 10 mm
100-643-15 Curved 15 mm
100-643-20 Curved 20 mm
100-643-25 Curved 25 mm
100-643-30 Curved 30 mm
100-643-38 Curved 38 mm
100-643-44 Curved 44 mm
100-643-50 Curved 50 mm

Chisels / Osteotomes
Meißel / Osteotomien
Gubias / Osteotomos
Scalpelli / Osteotomi
Ciseaux / Ostéotomes

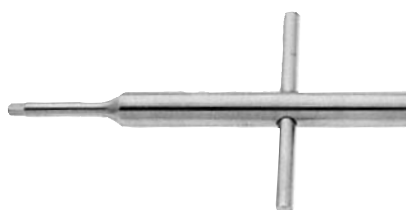


100-650-00
Chisel Handle



100-650-05 Chisel Blade 5 mm
100-650-10 Chisel Blade 10 mm
100-650-16 Chisel Blade 16 mm
100-650-25 Chisel Blade 25 mm

100-651-05 Osteotome Blade 5 mm
100-651-10 Osteotome Blade 10 mm
100-651-16 Osteotome Blade 16 mm
100-651-25 Osteotome Blade 25 mm



Wrench for Chisel Handle



100-656-10 Flat 10 mm
100-656-15 Flat 15 mm
100-656-20 Flat 20 mm
100-656-25 Flat 25 mm



100-657-10 Hollow 10 mm
100-657-15 Hollow 15 mm
100-657-20 Hollow 20 mm
100-657-25 Hollow 25 mm

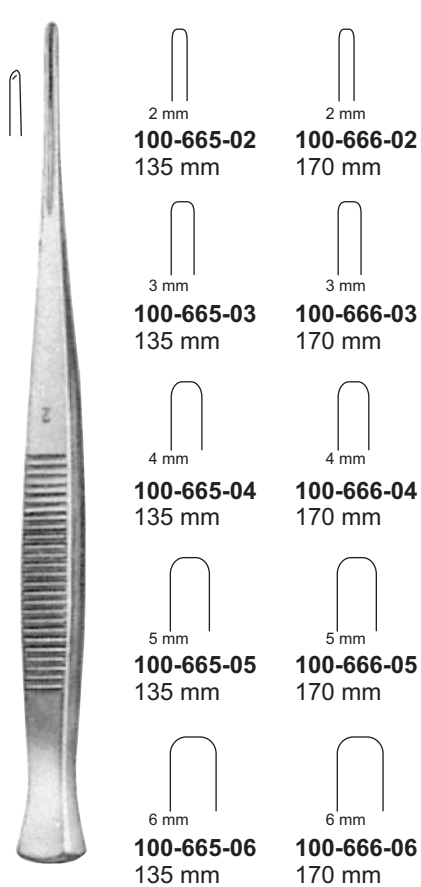


100-661-18
Mini Lexer 180 mm

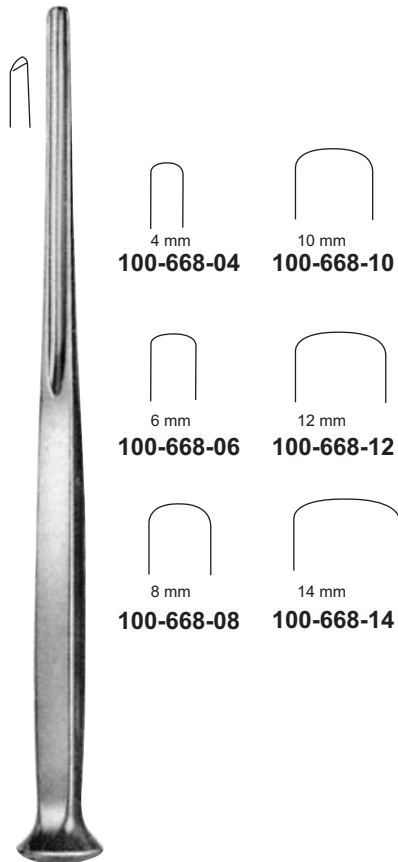


100-662-18
Mini Lexer 180 mm Hollow

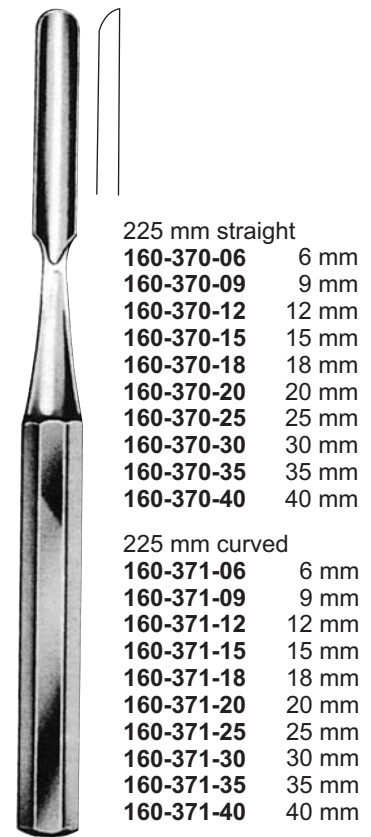
Gouges Meißel Cinceles Sgorbie Gouges



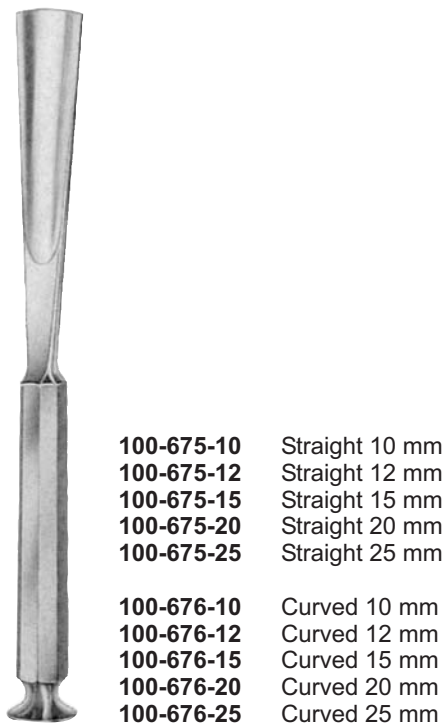
Partsch



Alexander



Hibbs, 24 cm
stainless steel handle



Stille



Standard Retractors
Standard Retraktor
Separadores Estándar
Divaricatori Standard
Releveurs standard



Fig. 1 100-352-06

Periosteal Elevator 175 mm
 For Metacarpals Small
 6 mm width



Fig. 2 100-352-10

For Metacarpals Medium
 10 mm width



Fig. 3 100-352-45

Light Curve, Rounded End,
 5 mm width



Fig. 4 100-352-50

Contra Angled Curve
 4.5 mm width



100-358-06
 Small, width 6 mm
 short, narrow tip



100-360-08
 Small, width 8 mm
 short, narrow tip



100-364-15
 For Small Fragments
 Board Shank



100-368-08
 Width 8 mm
 short, narrow tip



100-374-18 Width 18 mm short,
 narrow tip
100-376-18 Width 18 mm long,
 narrow tip



100-376-43 Width 43 mm
 narrow tip
100-376-70 Width 70 mm
 narrow tip



100-378-43
 Width 43 mm
 long shank, angled

Bone Holding Forceps
Knochenzangen
Pinzas de Sujeción de Huesos
Tenaglie per Ossa
Pinces de maintien des os



100-215-15 Self-Centering Bone Holding Forceps with Thread Lock
 For small fragments 150 mm, jaw 9 mm
100-215-19 Size 0, 190 mm, extra small jaw 10 mm
100-215-24 Size 1, 240 mm, extra small jaw 14 mm



100-182-16 Kern 160 mm with ratchet
100-182-21 210 mm with ratchet
100-183-16 160 mm without ratchet
100-183-21 210 mm without ratchet



100-200-14 Verbrügge Bone Holding Forceps 175 mm

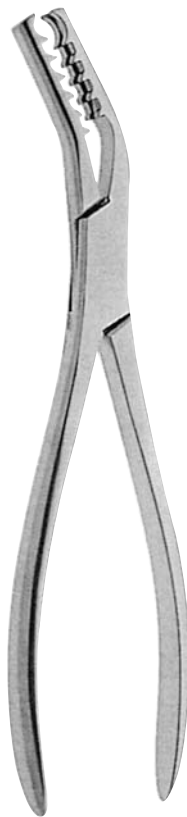


100-298-16 Reduction Forceps with Thread Lock 160 mm

Bone Holding Forceps
Knochenzangen
Pinzas de Sujeción de Huesos
Tenaglie per Ossa
Pinces de maintien des os



100-220-19
 Ulrich
 Straight 190 mm



100-240-20 Semb 200 mm
100-240-30 Semb 200 mm



100-278-13
 Reduction Forceps
 for small fragments 135 mm



100-284-14
 Forceps with Ratchet
 Fixation 145 mm



100-270-17
 Reil, 170 mm

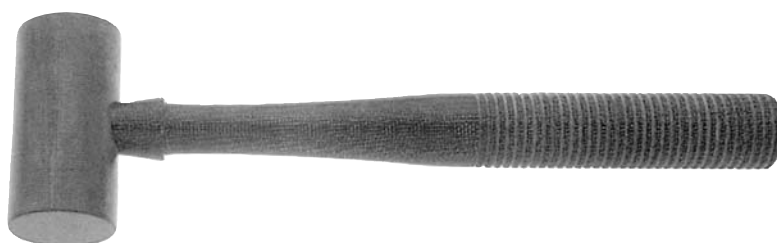


100-280-13
 Holding Forceps for
 Mini 135 mm

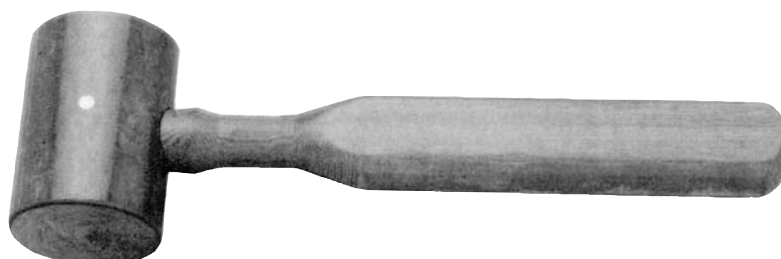
Mallets Schlägel Martillos Martelli Maillets



100-602-35 Weight approx:350 g
100-602-50 Weight approx:500 g(standard size)
100-602-70 Weight approx:700 g (For Medullary Nailing)



100-604-12 18,0 cm length, 30 mm, 125 g (4 oz)
 Material Ferozell can be sterilized in an autoclave
 at 3 bar overpressure (143°C)



100-609-25 42 mm, 250 mm
 Material Ferozell can be sterilized in an autoclave
 at 3 bar overpressure (143°C)

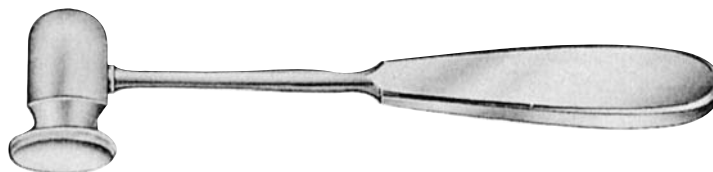


100-612-21 30 mm / 215 g
 with interchangeable Plastic disks 250 mm
100-613-02 Pair of spare disks

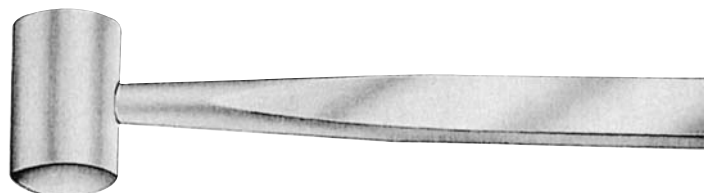
Mallets
Schlägel
Martillos
Martelli
Maillets



Williger 24 cm
100-580-26 Ø26 mm, 300 gr.
100-580-28 Ø28 mm, 340 gr.
100-580-30 Ø30 mm, 400 gr.



Doyen 20 cm
100-582-25 Ø25 mm, 120 gr.
100-582-30 Ø30 mm, 180 gr.
100-582-35 Ø35 mm, 260 gr.



Cottle 190 mm
100-583-19 240 gr.

Mallets
Schlägel
Martillos
Martelli
Maillets



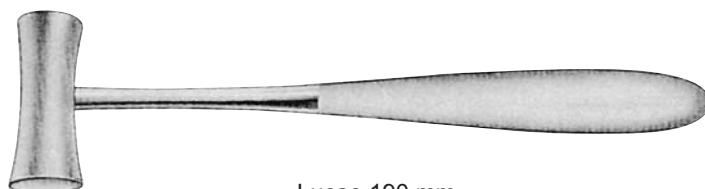
100-585-01
100-585-02

Thiess 165 mm
 Ø 20 mm, 140 gr. Lead Filled
 Ø 20 mm, 140 gr. Brass Solid



100-588-26

Mead 170 mm
 Ø 26 mm, 320 gr.



100-590-19
100-590-25

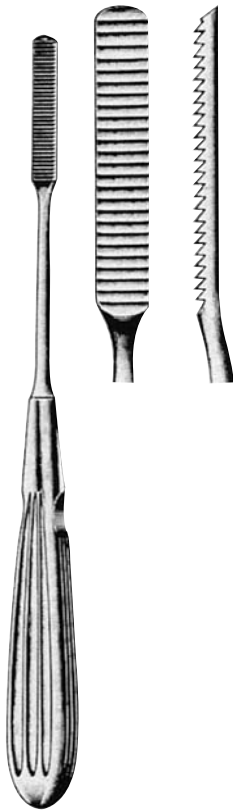
Lucae 190 mm
 Ø 19 mm, 230 gr.
 Ø 25 mm, 260 gr.



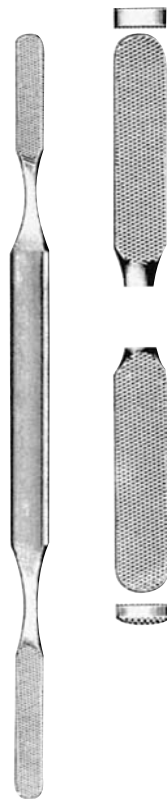
100-592-22

Partsch 180 mm
 Ø 22 mm, 200 gr.

**Rasp
Raspel
Escofina
Raspa
Râpe**



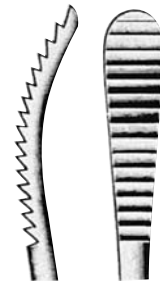
150-308-01
Cottle, 210 mm



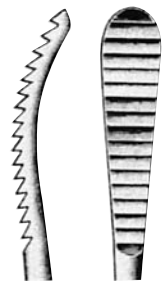
150-312-11
Cottle, 210 mm



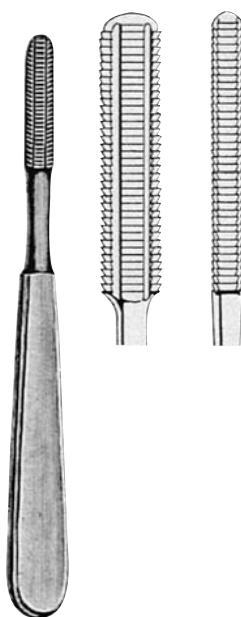
Aufricht
210 mm



150-315-03



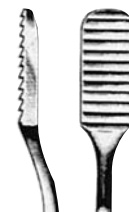
150-315-04



150-318-18
Maltz, 180 mm



Lewis, 180 mm

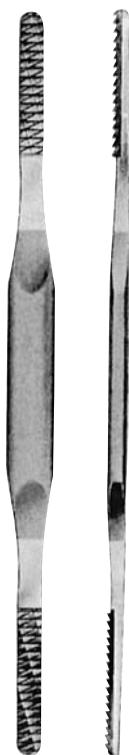


150-322-03
fine

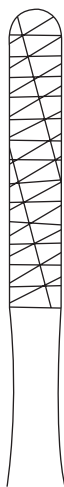


150-322-04
coarse

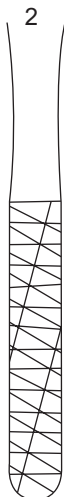
**Rasp
Raspel
Escofina
Raspa
Râpe**



Fomon, 200 mm

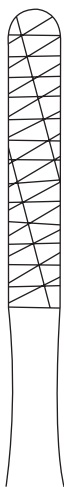


1

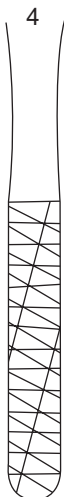


2

150-325-01

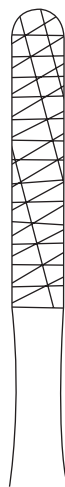


3



4

150-325-03



5



6

150-325-05



7

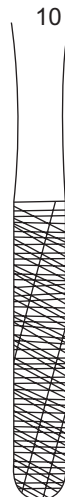


8

150-325-07



9



10

150-325-09



100-935-38 Putti, 280 mm

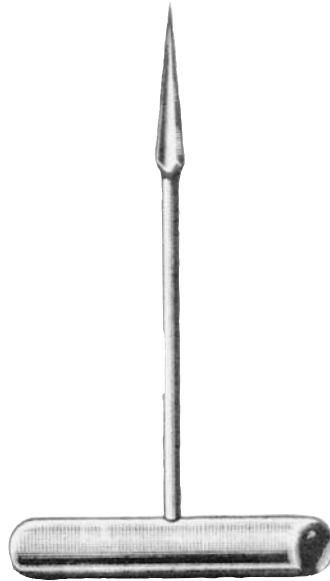


100-938-30 Putti, 300 mm

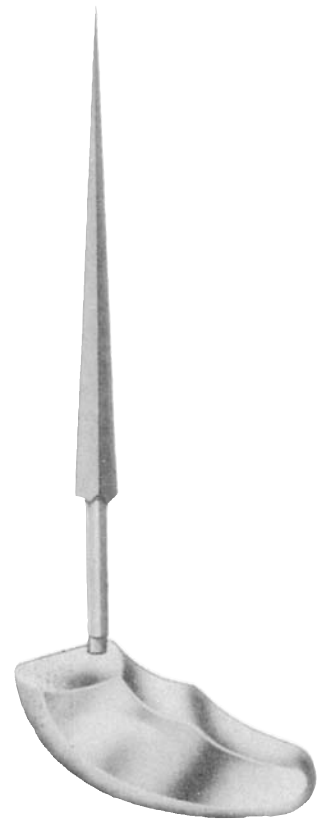
Bone Awls / Bone Impactors
Knochen Ahlen / Knochen Impaktor
Punzones de Hueso / Impactores de Hueso
Punteruoli per Ossa / Impattatori per Ossa
Trépans en pointe / Impacteurs osseux



100-915-16 160 mm



100-917-15 150 mm



100-922-16 Perthes, 160 mm
100-922-22 Perthes, 220 mm



Bone Impactors
155 mm



150-350-02



150-350-03



150-350-04



150-350-05



150-350-06



150-350-08



Ø 10 mm

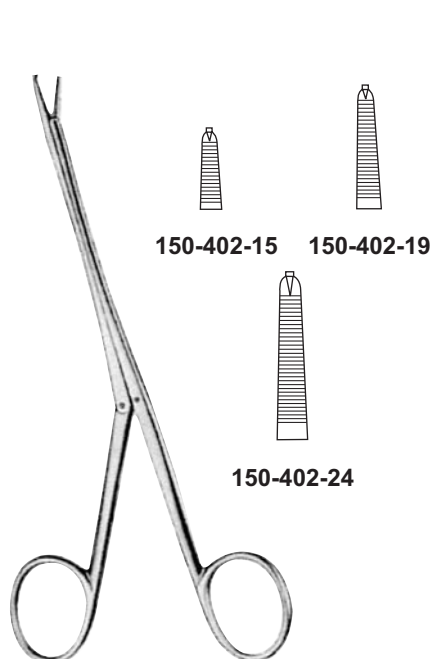
Tendon Instruments

Sehnen Instrumente

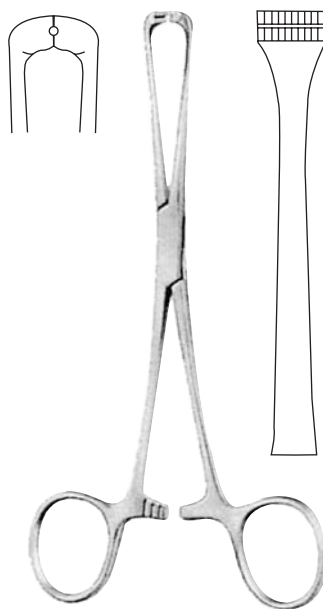
Instrumentos para Tendones

Strumenti per Tendini

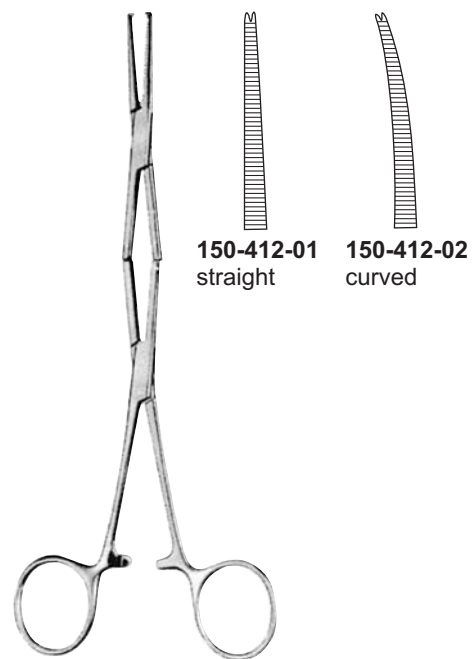
Outils pour tendons



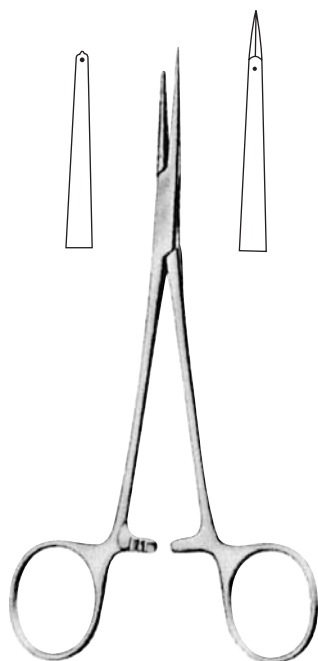
Brand



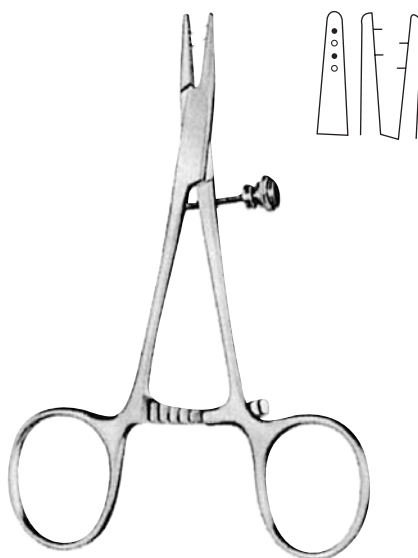
150-405-16
Steinmann, 160 mm



Tendon Retriever, 205 mm



150-422-01 150 mm straight
150-422-02 150 mm curved



150-425-13
130 mm



Tendon Stripper
150-435-01 1 mm dia, 285 mm length
150-435-03 3 mm dia, 285 mm length
150-435-05 5 mm dia, 285 mm length

Skin Grafting Instruments
Hauttransplantation Instrumente
Instrumentos para Piel
Strumenti per Afferrare la Pelle
Outils de greffe de peau



150-465-30 Ruler, 300 mm
Metric only



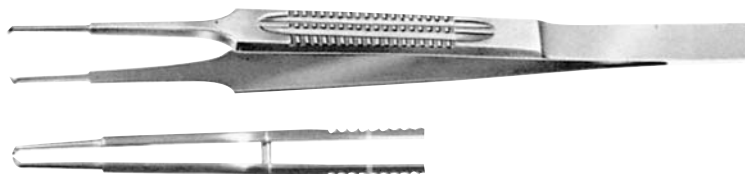
150-468-16 Humby Skin Graft Knife,
blade 160 mm, adjustable
setting, overall length 315 mm



150-470-40 Silver Dermatome, blade 40 mm
overall length 200 mm



150-475-10 Skin Traction Plate, synthetic,
120 x 80 x 10 mm



150-480-11 Micro Forceps, straight, 110 mm

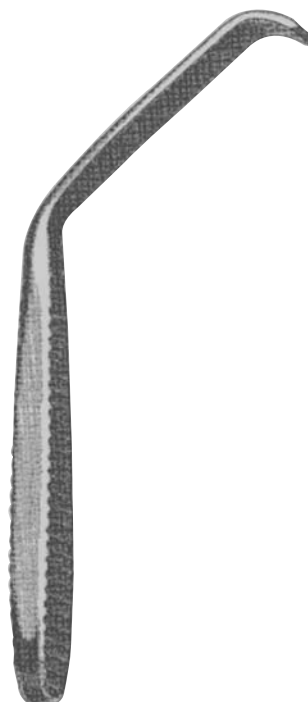
Retractors Retraktor Separadores Divaricatori Écarteurs



160-003-01 Senn Retractor 160 mm
3 sharp prongs
160-003-02 3 blunt prongs



160-006-19 Little Retractor 190 mm
Blade 7 mm x 18 mm

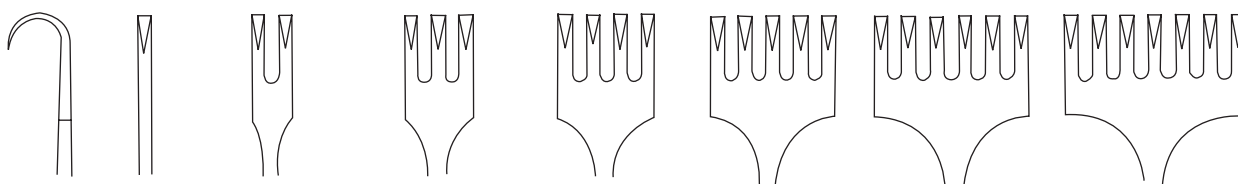


160-010-18 Blade Retractor 180 mm
18 mm x 76 mm
160-010-20 20 mm x 76 mm
160-010-23 23 mm x 76 mm



Volkman 215 mm

Sharp



100-408-01

100-408-02

100-408-03

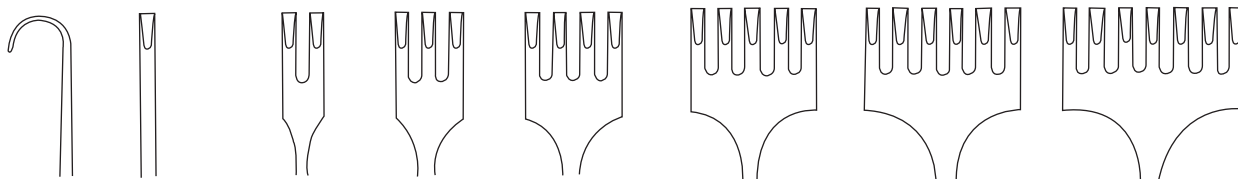
100-408-04

100-408-05

100-408-06

100-408-07

Blunt



100-409-01

100-409-02

100-409-03

100-409-04

100-409-05

100-409-06

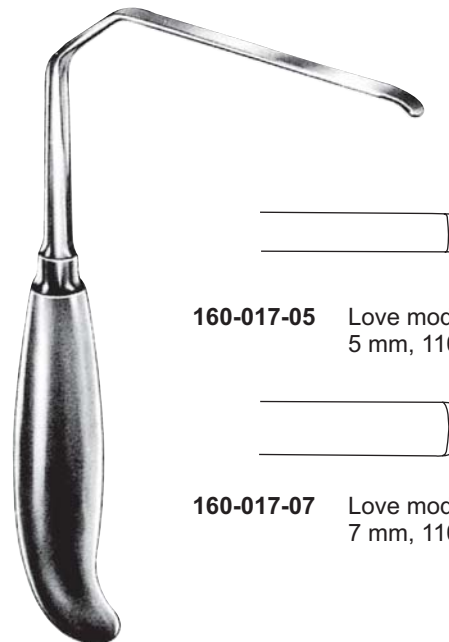
100-409-07

Retractors Retraktor Separadores Divaricatori Écarteurs



160-016-01
160-016-03
160-016-08

Love Nerve Retractor 210 mm
7 mm width x 5 mm depth
Straight blade
blade angled 45 degrees
blade angled 90 degrees

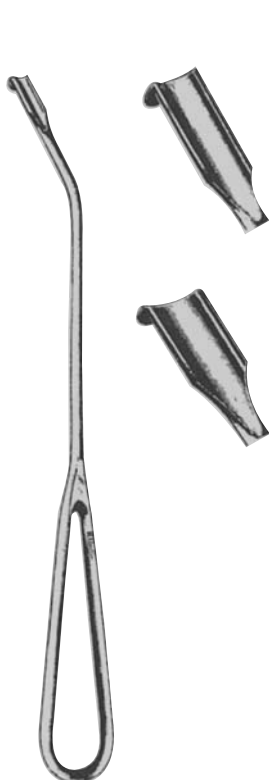


160-017-04

160-017-05 Love modif.
5 mm, 110 mm

160-017-07 Love modif.
7 mm, 110 mm

Love modif.
4 mm, 100 mm



160-019-07
160-019-09

Holsher Nerve Retractor
230 mm angled 7 mm blade
9 mm blade



160-021-22
160-021-23

Nerve Root Retractor
Offset 225 mm
6 mm blade
9 mm blade



160-023-08
160-023-13

Scoville Nerve Root Retractor
230 mm angled
8 mm blade
13 mm blade

Retractors Retraktor Separadores Divaricatori Écarteurs



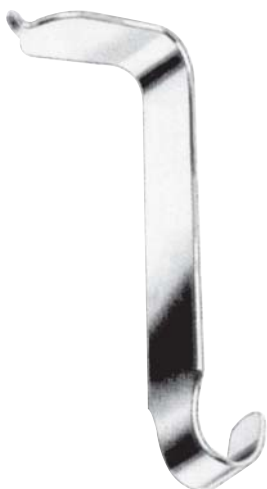
160-027-22
Cushing Vein Retractor 225 mm
with fenestrated handle
Blade 12 mm width x 10 mm



160-030-21
Cushing Decompression Retractor 215 mm
with fenestrated blade and handle
Blade 13 mm width x 22 mm



160-031-01 Scoville 7 mm, 240 mm straight
160-031-02 carved



160-033-07 Taylor 170 mm
160-033-10 30 x 75 mm
30 x 100 mm



160-035-07 Hibbs
160-035-08 25 x 75 mm, 230 mm
25 x 80 mm, 240 mm



160-038-20 Meyerdig
160-038-23 16 X 50 mm, 200 mm
160-038-24 25 X 75 mm, 230 mm
50 X 90 mm, 240 mm

Retractors Retraktor Separadores Divaricatori Écarteurs



160-039-14
Bergmann, 140 mm
sharp



160-041-13
Rollet, 130 mm
4 prong, sharp



160-142-01
4 prong, sharp



160-142-01
4 prong, blunt



Knapp 160 mm



160-142-07
4 prong, sharp



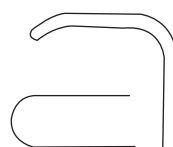
160-142-08
4 prong, blunt



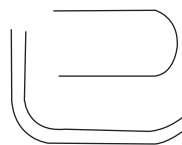
Knapp modif.
160 mm
angled



160-144-01
Ragnell, 160 mm



Full Size



Full Size



160-144-03
Ragnell modif.
160 mm
Round Handle

Retractors Retraktor Separadores Divaricatori Écarteurs



Cushing, 200 mm

160-145-08	8 mm
160-145-10	10 mm
160-145-12	12 mm
160-145-14	14 mm
160-145-16	16 mm
160-145-18	18 mm



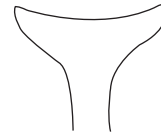
Cushing, 200 mm Short Neck

160-146-08	8 mm
160-146-10	10 mm
160-146-12	12 mm
160-146-14	14 mm
160-146-16	16 mm
160-146-18	18 mm



160-147-23

Cushing, 230 mm
10 mm x 10 mm



Love (Morse), 230 mm

160-148-10	10 mm x 12 mm
160-148-15	15 mm x 12 mm
160-148-20	20 mm x 12 mm
160-148-30	30 mm x 12 mm



160-149-21

Sachs
215 mm



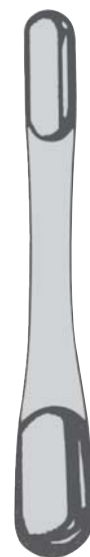
160-150-20

Cushing, 200 mm
10 mm x 18 mm
Decompression
Retractor



Dacis, 200 mm

160-151-06	6 mm
160-151-12	12 mm
160-151-17	17 mm
160-151-25	25 mm



160-152-17
160-152-20

Cushing
170 mm
200 mm
16 mm x 21 mm

Vein Retractors
Venen Retraktor
Separadores de Venas
Divaricatori per Vene
Écarteurs de veines



Meyerding, 180 mm



160-154-01
7 mm x 18 mm



160-154-02
4 mm x 7 mm



160-154-03
4 mm x 7 mm



160-154-04
5 mm x 16 mm



160-154-05
3 mm x 10 mm



160-154-06
10 mm x 4 mm
three prongs, sharp



Oldberg
210 mm



160-157-01
19 mm, 210 mm
plain



160-157-03
13 mm, 210 mm
three prong



160-157-02
15 mm, 210 mm
four prong



160-157-04
19 mm, 210 mm
six prong

Self-Retaining Retractors

Selbsthaltende Retraktor

Separadores Autoestáticos

Divaricatori Autostatici

Écarteurs autostatiques



160-060-15
Gelpi-Seletz Retractor
155 mm
Sharp, deep Blades



Gelpi Retractor

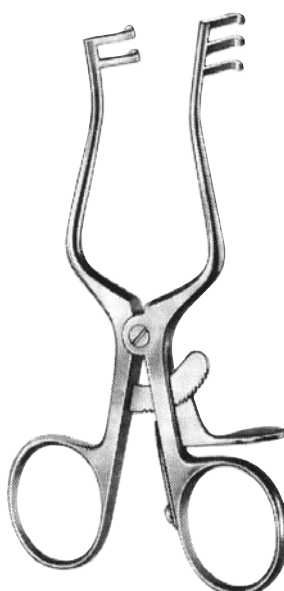
Length	Blunt	Sharp
85 mm	160-062-08	160-063-08
110 mm	160-062-11	160-063-11
135 mm	160-062-13	160-063-13
285 mm	160-062-28	160-063-28



160-070-15 Gelpi Retractor 150 mm
160-070-26 Wiltse Retractor 260 mm
sharp, deep blade

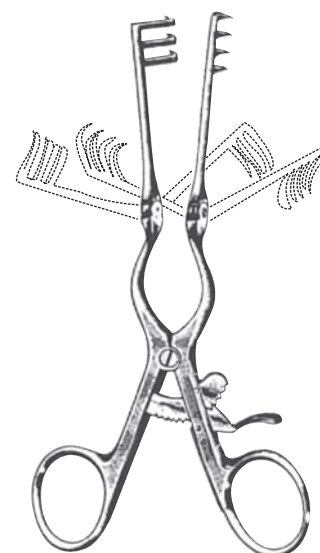


160-065-17
Gelpi Retractor 175 mm
with ball stops
sharp points



Weitlaner

Size	Pronges	Blunt	Sharp
105 mm	2 x 3	100-480-01	100-481-01
130 mm	3 x 4	100-480-04	100-481-04
165 mm	3 x 4	100-480-09	100-481-09
200 mm	3 x 4	100-480-15	100-481-15
250 mm	5 x 6	100-480-18	100-481-18



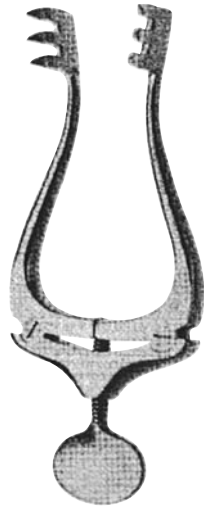
Beckmen-Weitlaner Retractor hinged
blades, 3 x 4 prongs

Height	Blunt	Sharp
135 mm	160-080-13	160-081-13
170 mm	160-080-17	160-081-17
210 mm	160-080-21	160-081-21
240 mm	160-080-24	160-081-24

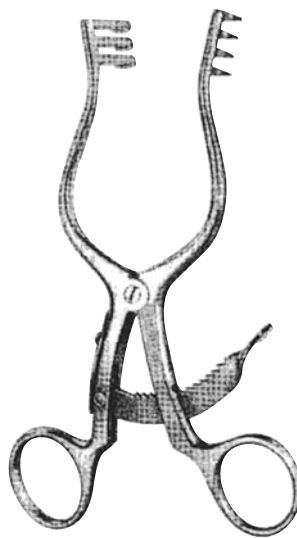
Self-Retaining Retractors
Selbsthaltende Retraktor
Separadores Autoestáticos
Divaricatori Autostatici
Écarteurs autostatiques



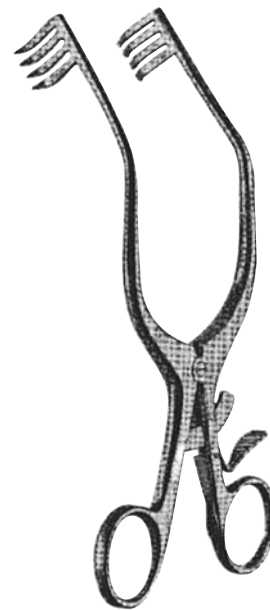
160-052-10
Jansen Retractor 100 mm
3 x 3 blunt prongs



160-055-11
Snitman Endaural
Retractor 115 mm
3 x 3 sharp prongs
Blade 11mm x 15 mm

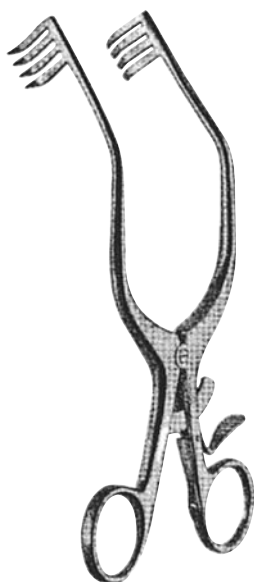


160-057-13
Scalp Contour
Retractor 135 mm
3 x 4 sharp prongs
15 mm x 20 mm



Adson Retractor 185 mm
4 x 4 Sharp Prong
Blade 18 x 18 mm

160-080-18 Straight
160-081-18 angled



160-085-22
D'Erroc Adson Retractor 180 mm
4 x 4 sharp prongs, 22 mm x 19 mm



160-087-35
Miskimon Cerebellum Retractor 180 mm
7 x 7 sharp prongs, 35 mm x 32 mm



Adson, 265 mm
5 x 6 prongs
blade 35 mm deep

160-089-01 sharp straight
160-089-02 blunt straight
160-089-05 sharp hinged
160-089-06 blunt hinged

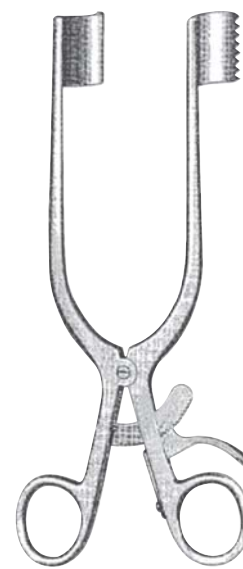
Self-Retaining Retractors Selbsthaltende Retraktor Separadores Autoestáticos Divaricatori Autostatici Écarteurs autostatiques



160-092-03 Beckmann - Eaton
320 mm, 7 x 7 Prongs
sharp, blades, 50 mm
160-092-07 blunt, blades, 50 mm



160-093-04 Beckmann - Adson
310 mm,
sharp blades 25 mm
160-093-08 blunt blades 25 mm
160-093-12 sharp blades 44 mm
160-093-16 blunt blades 44 mm



160-095-30 Meyerding Laminectomy
Retractor
160 mm sharp blade
25 mm x 30 mm
160-095-40 25 mm x 40 mm
160-095-50 25 mm x 50 mm
160-095-60 25 mm x 60 mm



160-097-03 Markham-Meyerding
Hemilaminectomy Retractor
175 mm blades 60 mm x 25 mm
left
160-097-05 right



160-098-13
Cervical Tissue Retractor
130 mm



160-101-28
Charnley, 280 mm

Self-Retaining Retractors Selbsthaltende Retraktor Separadores Autoestáticos Divaricatori Autostatici Écarteurs autostatiques



160-102-07 Cloward 170 mm
160-102-00 Frame only
160-102-03 complete set with 7 blades
(30 mm - 60 mm)
complete set with 7 toothed blades
(30 mm - 60 mm)



Cloward
Blades only
160-102-30 30 mm
160-102-35 35 mm
160-102-40 40 mm
160-102-45 45 mm
160-102-50 50 mm
160-102-55 55 mm
160-102-60 60 mm



160-105-07 Cloward 170 mm
160-105-00 Frame only
160-105-03 complete with 7 blades
(30 mm - 60 mm)
complete with 7 toothed blades
(30 mm - 60 mm)



Cloward
Blades toothed
160-105-30 30 mm
160-105-35 35 mm
160-105-40 40 mm
160-105-45 45 mm
160-105-50 50 mm
160-105-55 55 mm
160-105-60 60 mm



160-107-07 Cloward 250 mm
160-107-00 (with snap lock)
160-107-03 Frame only
complete with 7 blades
complete with 7 toothed blades
(30 mm - 60 mm)



160-110-07 Cloward Cervical Retractor 150 mm
160-110-00 (with sharp lock)
160-110-03 Frame only
complete with 7 blades
complete with 7 toothed blades

**Spreaders
Spritzgeräte
Separadores
Divaricatori
Répartiteurs**



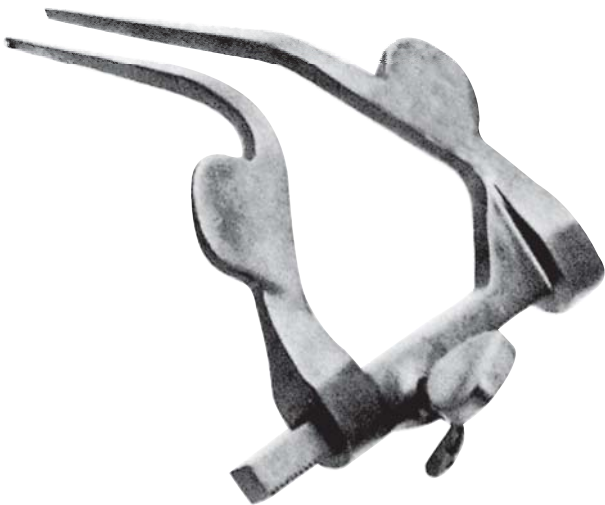
160-122-13 Cloward 130 mm



160-125-16 Inge 160 mm
Small pattern



160-125-05 Inge, 260 mm
Jaw width 5 mm
160-125-10 Jaw width 10 mm
large pattern



160-127-02 Lumbar Lamina Spreader
arm length: 87.5 mm
spread: 37.5 mm



160-129-16 Cloward 160 mm



160-130-14 140 mm

Retractors Retraktor Separadores Divaricatori Écarteurs



160-132-00 Casper Retractor for Lumbar Vertebral operations



	Blade Lengths
160-132-45	45 mm
160-132-50	50 mm
160-132-55	55 mm
160-132-60	60 mm
160-132-65	65 mm



160-137-00 Casper Retractor for Soft tissue with medial and lateral Blades frame only



Medial Blades width 20 mm	
	Blade Lengths
160-138-40	40 mm
160-138-45	45 mm
160-138-50	50 mm
160-138-55	55 mm
160-138-60	60 mm
160-138-65	65 mm



Lateral Blades width 20 mm	
	Blade Lengths
160-139-40	40 mm
160-139-45	45 mm
160-139-50	50 mm
160-139-55	55 mm
160-139-60	60 mm
160-139-65	65 mm



160-143-01 Casper Retractor for Ventral cervical fusion frame only
160-144-05 Casper Retractor (hinged) for Ventral cervical fusion frame only



Blunt Blades width 20 mm	
	Blade Lengths
160-145-45	45 mm
160-145-50	50 mm
160-145-55	55 mm
160-145-60	60 mm
160-145-65	65 mm



Casper distractor for ventral cervical vertebral body fusion

160-150-00	Distractor
160-150-04	Drilling Guide
160-150-12	Drill 2.0 mm with Sleeve
160-150-16	Distraction Screws
160-150-25	Screws Drivers

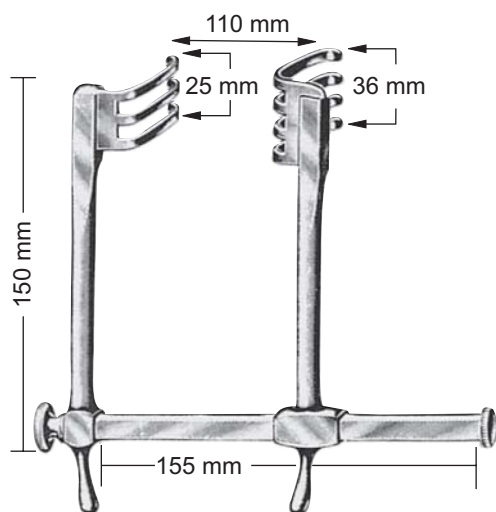
Retractors

Retraktor

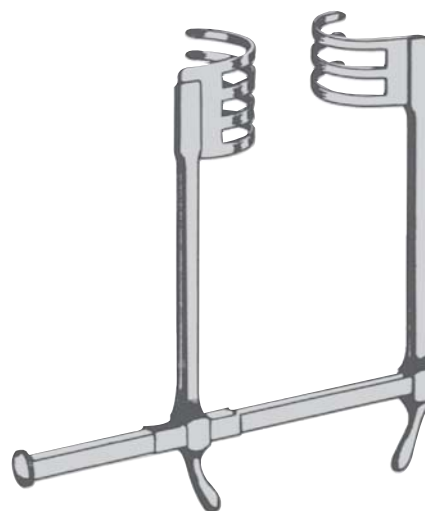
Separadores

Divaricatori

Écarteurs



160-155-15 Temple-Fay



160-160-12 Frazier Laminectomy Retractor
spread: 90 mm
arm length: 125 mm



160-165-01
60 mm x 50 mm



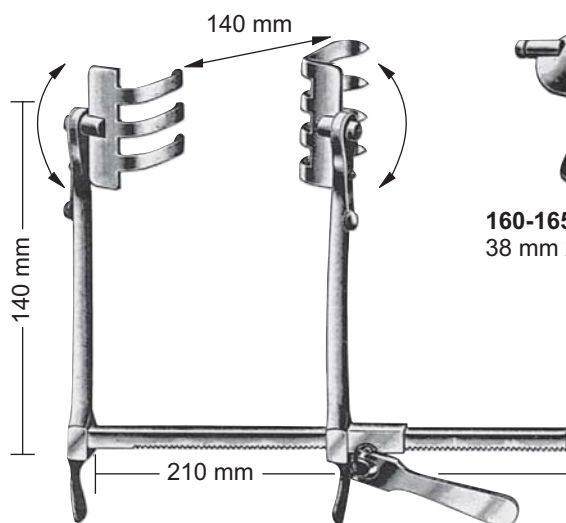
160-165-02
48 mm x 50 mm



160-165-03
28 mm x 40 mm



160-165-04
38 mm x 62 mm



160-165-21 Scoville- Richter

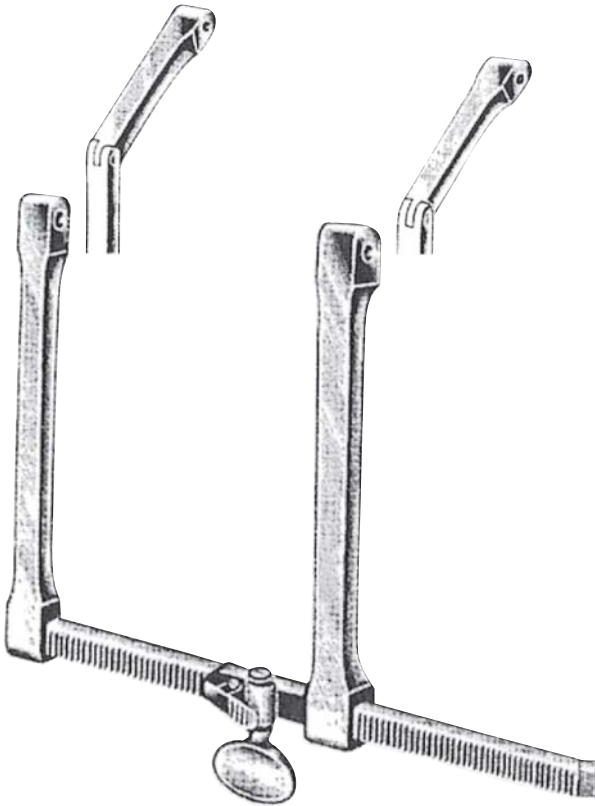


160-167-00 Sheldon
complete with 2 toothed blades
and 1 3-pronged blade



160-167-03
40 mm x 25 mm
Blade only, 3 prong

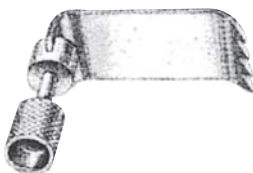
Retractors Retraktor Separadores Divaricatori Écarteurs



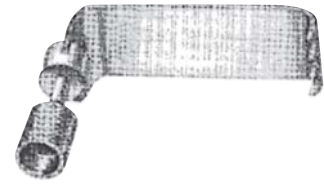
160-170-18 Scoville Hemilaminectomy Retractor Body
160-171-18 Haverfield-scoville Hemilaminectomy Retractor Body (hinged)



160-172-01 Scoville Blades, hook Style
160-172-02 51 mm depth
160-172-03 76 mm depth
160-172-04 51 mm depth with cross bar
70 mm depth with cross bar



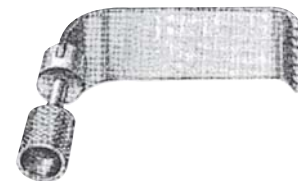
160-174-01 Hibbs blades
160-174-02 25 mm width x 51 mm depth
160-174-03 51 mm width x 50 mm depth
160-174-04 25 mm width x 38 mm depth
160-174-05 38 mm width x 38 mm depth
160-174-06 25 mm width x 76 mm depth
160-174-07 38 mm width x 76 mm depth
160-174-08 51 mm width x 76 mm depth
160-174-09 25 mm width x 102 mm depth
51 mm width x 102 mm depth



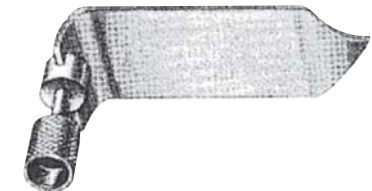
160-175-01 Scoville Blades, solid
160-175-02 25 mm width x 64 mm depth
160-175-03 51 mm width x 64 mm depth
160-175-04 29 mm width x 67 mm depth
25 mm width x 89 mm depth



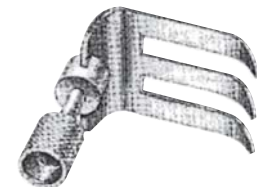
160-176-01 Scoville Blades, 4 prong
160-176-02 38 mm width x 41 mm depth
48 mm width x 67 mm depth



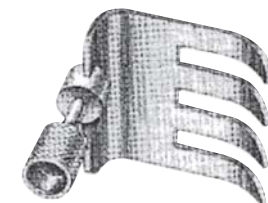
160-177-01 Meyerding Blades
160-177-02 25 mm width x 57 mm depth
160-177-03 25 mm width x 67 mm depth
51 mm width x 89 mm depth



160-178-01 Taylor Spinal Blades
160-178-02 32 mm width x 76 mm depth
32 mm width x 102 mm depth

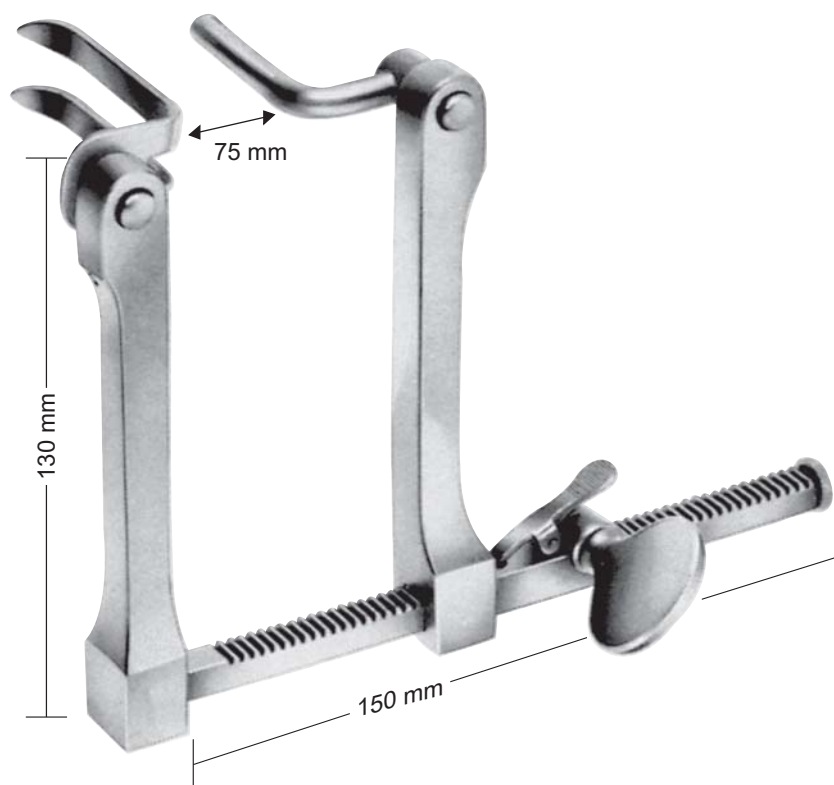


160-179-01 Taylor Laminectomy Blades, 3 prong
38 mm width x 44 mm depth



160-180-01 Taylor Laminectomy Blades
160-180-02 51 mm width x 48 mm depth
160-180-03 64 mm width x 64 mm depth
57 mm width x 76 mm depth

Retractors Retraktor Separadores Divaricatori Écarteurs



160-185-15 Caspar Retractor Frame
160-186-15 Caspar Retractor Frame (hinged)



160-188-01 45 x 23 mm
160-188-02 50 x 23 mm
160-188-03 55 x 23 mm
160-188-04 60 x 23 mm
160-188-05 65 x 23 mm



160-189-01 Hook 50 mm



160-189-02 Hook 70 mm



Blades
160-190-01 35 mm x 22 mm
160-190-02 40 mm x 22 mm
160-190-03 45 mm x 22 mm
160-190-04 50 mm x 22 mm
160-190-05 55 mm x 22 mm
160-190-06 60 mm x 22 mm
160-190-07 65 mm x 22 mm
160-190-08 70 mm x 22 mm



Blades
160-191-01 35 mm x 37 mm
160-191-02 40 mm x 37 mm
160-191-03 45 mm x 37 mm
160-191-04 50 mm x 37 mm
160-191-05 55 mm x 37 mm
160-191-06 60 mm x 37 mm
160-191-07 65 mm x 37 mm
160-191-08 70 mm x 37 mm



Blades
160-192-01 35 mm x 52 mm
160-192-02 40 mm x 52 mm
160-192-03 45 mm x 52 mm
160-192-04 50 mm x 52 mm
160-192-05 55 mm x 52 mm
160-192-06 60 mm x 52 mm
160-192-07 65 mm x 52 mm
160-192-08 70 mm x 52 mm

Dura Separators & Dissectors
Dura Trenner & Dissektoren
Separadores y Disectores de la Duramadre
Divaricatori e Dissettori per la Duramadre
Séparateurs et Décorticateurs Dura



160-204-15
Frazier
150 mm



160-206-45
Hoen, 150 mm
90°



160-210-18
Horsley
200 mm



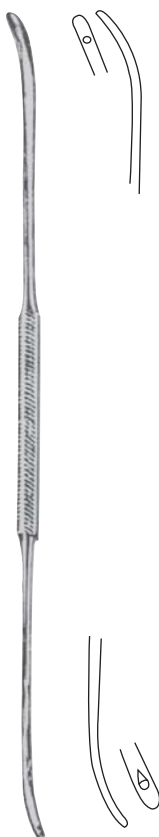
160-218-01
Wide



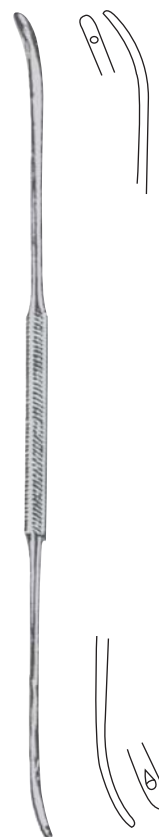
160-218-02
Narrow



160-219-04
Davis
4 mm, 245 mm



160-222-18 Olivecrone
180 mm
160-222-24 240 mm
delicate pattern

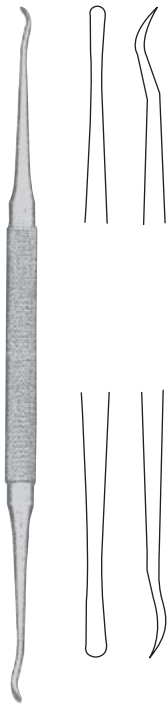


160-223-18 Olivecrone
180 mm
160-223-24 240 mm
heavy pattern

**Elevators
Elevatoren
Elevadores
Elevatori
Releveurs**



160-226-03
Sachs Nerve
185 mm
3 mm blunt



160-227-19
Kleinert Kutz
Elevator and Dissector
195 mm
2 mm x 3 mm Sharp ends



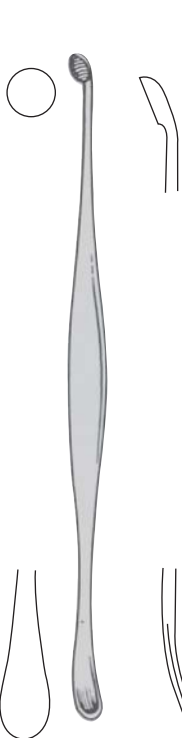
160-228-18
Freer 185 mm
double ended
5 mm sharp end
5 mm blunt end



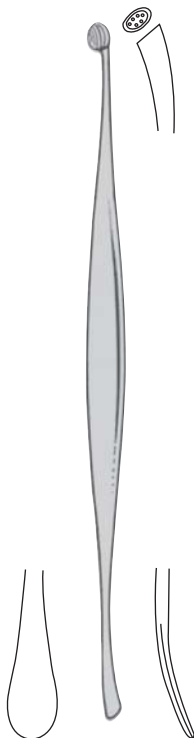
160-229-22
Woodson Elevator/Spatula
225 mm double ended
3 mm semi-blunt ends



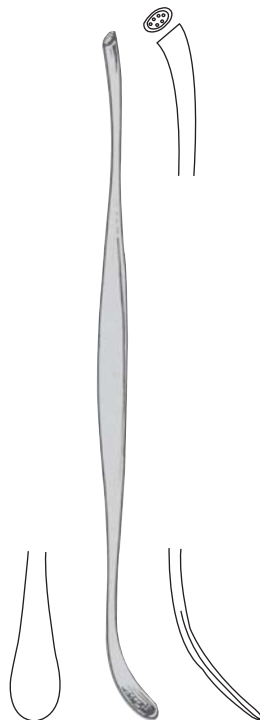
160-230-17
Woodson Dural
Separator/Packer
175 mm double ended
with grooved blade
3 mm blunt end



160-232-01
Style #1
175 mm double ended



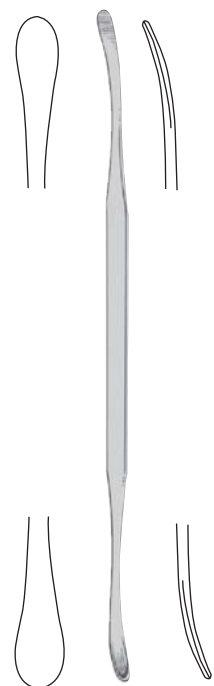
160-233-02
Style #2
185 mm double ended



160-234-03
Penfield Elevators
Style #3
280 mm double ended



160-235-04
Style #4
280 mm single ended



160-236-05
style #5
185 mm double ended

**Elevators
Elevatorii
Elevadores
Elevatori
Releveurs**



160-239-08
Smithwick Hook and Dissector
300 mm double ended
5 mm semi-sharp end
and 1 x 10 mm blunt hook



160-242-45
angled 45°



160-242-90
angled 90°

Nerve Probe endoscopic
380 mm with ball end
80 mm tip and shaft length
290 mm handle length
7.1 mm shaft diameter



160-245-38
Penfield Elevator endoscopic
380 mm blunt, 4 mm tip width
88 mm tip and shaft length, graduated
290 mm handle length
7.1 mm shaft diameter

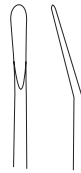
Elevators Elevatorii Elevadores Elevatori Releveurs



160-248-01
160-248-02
160-248-03



160-248-04



160-248-05



160-248-06
160-248-07
160-248-08



160-248-09



160-248-10



160-248-11



160-248-12



160-248-13
160-248-14



160-248-15



160-248-16
160-248-17



160-248-18
160-248-19

Rhoton Micro Dissection Instruments 190 mm

- 160-248-01 Round Dissector 1 mm, angled
- 160-248-02 Round Dissector 2 mm, angled
- 160-248-03 Round Dissector 3 mm, angled
- 160-248-04 Elevator, curved
- 160-248-05 Elevator, angled
- 160-248-06 Spatula Dissector # 6 small, angled
- 160-248-07 Spatula Dissector # 7 medium, angled
- 160-248-08 Spatula Dissector # 8 large, angled
- 160-248-09 Hook, 90° angle, sharp
- 160-248-10 Hook, 90° angle, blunt
- 160-248-11 Hook, 45° angle, sharp
- 160-248-12 Needle, straight, sharp
- 160-248-13 Micro Curette, straight, 1 mm x 2 mm
- 160-248-14 Micro Curette, angled, 1 mm x 2 mm
- 160-248-15 Ball-tipped Dissector, 0.8 mm
- 160-248-16 Ball-tipped Dissector, 90° angle, 3 mm
- 160-248-17 Ball-tipped Dissector, 90° angle, 5 mm
- 160-248-18 Ball-tipped Dissector, 40° angle, 4 mm
- 160-248-19 Ball-tipped Dissector, 40° angle, 8 mm

Elevators Elevatorii Elevadores Elevatori Releveurs



160-260-14
Carroll Periosteal Elevator
140 mm sharp, double ended
3 mm round end, 10 mm flat end



160-262-01 Adson Periosteal 170 mm
160-262-02 Sharp 7 mm straight
160-262-03 blunt 7 mm curved
160-262-04 semi-sharp 7 mm straight
semi-sharp 7 mm curved



160-263-15 Cushing Periosteal Elevator
160-263-16 185 mm, 15 mm sharp, straight
curved



160-264-01 Langenbeck Periosteal Elevator
160-264-02 195 mm
blunt edge
sharp edge



160-266-06 Key Periosteal Elevator sharp edge
160-266-09 177 mm 6.5 mm width
160-266-12 185 mm 9.5 mm width
160-266-19 185 mm 12.7 mm width
160-266-25 200 mm 19.0 mm width
209 mm 25.0 mm width

Periosteal Elevators
Raspatorien
Elevadores Periósticos
Elevatori Periostali
Releveurs périostaux



160-267-06 Key, 190 mm
160-267-12 6 mm
160-267-20 12 mm
160-267-25 20 mm
 25 mm
 sharp, slightly curved



160-269-06
 Pennybacker
 6 mm, 170 mm
 sharp, curved



160-270-15
 Langenbeck
 15 mm, 190 mm
 sharp, slightly curved



160-271-01 Cushing
 180 mm, 15 mm
 round edge
160-271-02 Square edge



100-735-06
 6 mm, 185 mm
 sharp, curved



100-730-13
 13 mm, 200 mm
 sharp, curved



100-725-14
 14 mm, 200 mm
 sharp, straight



100-727-14
 14 mm, 200 mm
 sharp, curved

**Periosteal Elevators
Raspatorien
Elevadores Periósticos
Elevatori Periostali
Releveurs périostaux**



160-271-07 Hoen
7 mm, 160 mm
160-271-15 15 mm, 190 mm
160-271-20 20 mm, 190 mm
Semisharp



160-272-07 Langenbeck, 200 mm
7 mm
160-272-10 10 mm
Elevator, blunt



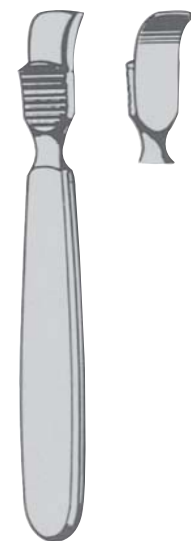
160-273-19 Cushing, 190 mm
left
160-274-19 right



160-275-17
Adson, 170 mm



100-784-14 Farabeuf
13 mm, 140 mm
sharp, straight



100-785-14 Farabeuf
13 mm, 140 mm
sharp, curved

Elevators Elevatoren Elevadores Elevatori Releveurs



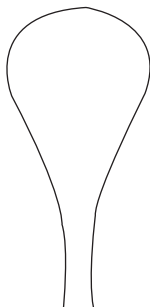
160-280-12
12 mm



160-280-19
19 mm

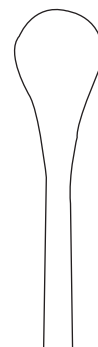


160-280-25
25 mm



160-280-32
32 mm

Cobb Spinal Elevator 238 mm sharp
with hexagonal handle



160-282-19

Harrington Spinal Elevator
300 mm Sharp
19 mm tip width



7 mm



9 mm



11 mm

160-284-07
160-284-09
160-284-11
Cobb modif.
28 mm
7 mm
9 mm
11 mm
Round Handle



4 mm



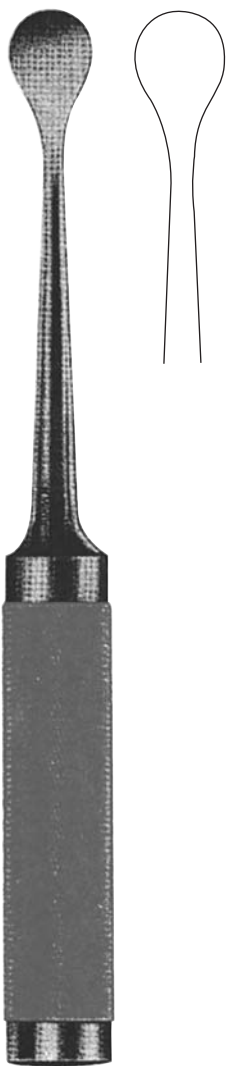
6 mm



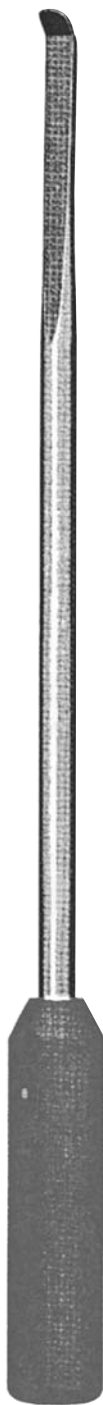
8 mm

160-285-04
160-285-06
160-285-08
Cobb modif.
28 mm
4 mm
6 mm
8 mm
Round Handle

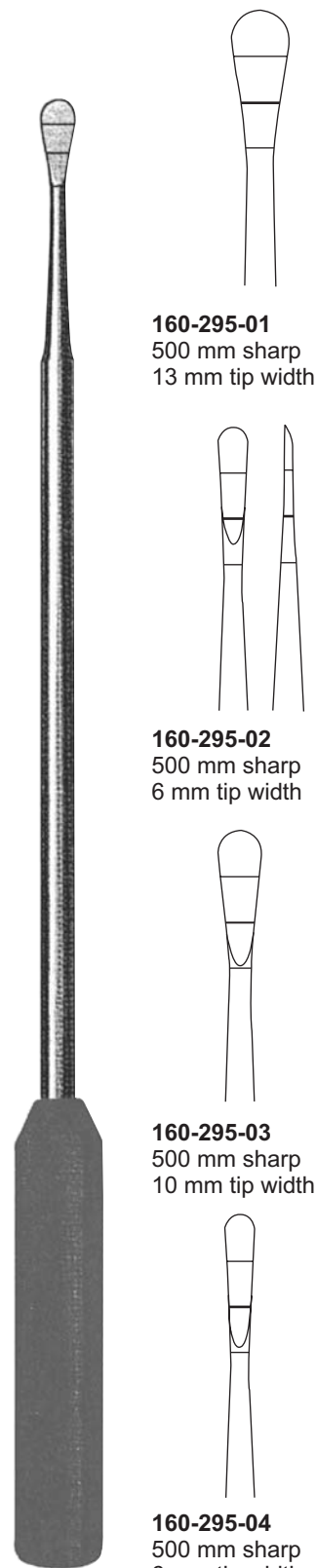
**Elevators
Elevatorii
Elevadores
Elevatori
Releveurs**



160-288-19
Harrington Spinal Elevator
300 mm Sharp
19 mm tip width



Rib Elevator endoscopic
425 mm Sharp with fiber handle
9 mm radius tip
160-290-45 angled 45°
160-290-90 angled 90°



160-295-01
500 mm sharp
13 mm tip width

160-295-02
500 mm sharp
6 mm tip width

160-295-03
500 mm sharp
10 mm tip width

160-295-04
500 mm sharp
6 mm tip width

Cobb Spinal Elevator endoscopic
with fiber handle graduated tips

Chisels / Osteotomes Meißel / Osteotomien Gubias / Osteotomos Scalpelli / Osteotomi Ciseaux / Ostéotomes



Hibbs Chisel

225 mm straight

160-350-06	6 mm
160-350-09	9 mm
160-350-12	12 mm
160-350-15	15 mm
160-350-18	18 mm
160-350-20	20 mm
160-350-25	25 mm
160-350-30	30 mm
160-350-35	35 mm
160-350-40	40 mm

225 mm curved

160-351-06	6 mm
160-351-09	9 mm
160-351-12	12 mm
160-351-15	15 mm
160-351-18	18 mm
160-351-20	20 mm
160-351-25	25 mm
160-351-30	30 mm
160-351-35	35 mm
160-351-40	40 mm

Osteotomes

225 mm straight

160-360-06	6 mm
160-360-09	9 mm
160-360-12	12 mm
160-360-15	15 mm
160-360-18	18 mm
160-360-20	20 mm
160-360-25	25 mm
160-360-30	30 mm
160-360-35	35 mm
160-360-40	40 mm

225 mm curved

160-361-06	6 mm
160-361-09	9 mm
160-361-12	12 mm
160-361-15	15 mm
160-361-18	18 mm
160-361-20	20 mm
160-361-25	25 mm
160-361-30	30 mm
160-361-35	35 mm
160-361-40	40 mm

Hibbs Chisel / Osteotomes



Cobb Chisel

275 mm straight

160-354-06	6 mm
160-354-09	9 mm
160-354-12	12 mm
160-354-15	15 mm
160-354-18	18 mm
160-354-25	25 mm
160-354-35	35 mm

275 mm curved

160-355-06	6 mm
160-355-09	9 mm
160-355-12	12 mm
160-355-15	15 mm
160-355-18	18 mm
160-355-25	25 mm
160-355-35	35 mm

Osteotomes

275 mm straight

160-364-06	6 mm
160-364-09	9 mm
160-364-12	12 mm
160-364-15	15 mm
160-364-18	18 mm
160-364-25	25 mm
160-364-35	35 mm

275 mm curved

160-365-06	6 mm
160-365-09	9 mm
160-365-12	12 mm
160-365-15	15 mm
160-365-18	18 mm
160-365-25	25 mm
160-365-35	35 mm

Cobb Chisel / Osteotomes



160-357-10

Hibbs Chisel endoscopic
460 mm
10 mm tip width straight

160-367-10

Hibbs Osteotomes endoscopic
460 mm
10 mm tip width straight

Gouges Meißel Cinceles Sgorbie Gouges



Cobb
240 mm



160-375-01
Straight



160-375-02
Slightly Curved



160-375-03



160-375-04
Curved down



Cobb
240 mm



160-375-05
Straight



160-375-06
Slightly Curved



160-375-07
Strongly Curved



160-375-08
Curved down



160-377-07
Hibbs Gougs endoscopic 460 mm
7 mm tip width straight, graduated

Osteotomes, Gouges **Osteotomien / Meißel** **Osteotomos / Cinceles** **Osteotomi / Sgorbie** **Ostéotomes / Gouges**



Lexer	Osteotome	Lexer modif.	Osteotome
220 mm	7 mm	290 mm	7 mm
100-656-07		100-658-07	
100-656-10	10 mm	100-658-10	10 mm
100-656-12	12 mm	100-658-12	12 mm
100-656-15	15 mm	100-658-15	15 mm
100-656-20	20 mm	100-658-20	20 mm
100-656-25	25 mm	100-658-25	25 mm
100-656-30	30 mm	100-658-30	30 mm



Lexer	Gouge	Lexer modif.	Gouge
220 mm	7 mm	290 mm	7 mm
100-657-07		100-659-07	
100-657-10	10 mm	100-659-10	10 mm
100-657-12	12 mm	100-659-12	12 mm
100-657-15	15 mm	100-659-15	15 mm
100-657-20	20 mm	100-659-20	20 mm
100-657-25	25 mm	100-659-25	25 mm
100-657-30	30 mm	100-659-30	30 mm



Lexer
250 mm straight
100-684-07 7 mm
100-684-10 10 mm
100-684-15 15 mm



Lexer
250 mm curved
100-685-07 7 mm
100-685-10 10 mm
100-685-15 15 mm

Osteotomes, Gouges
Osteotomien / Meißel
Osteotomos / Cinceles
Osteotomi / Sgorbie
Ostéotomes / Gouges



Smith-Peterson, 200 mm
Osteotome, Straight

100-632-06	6 mm
100-632-09	9 mm
100-632-12	12 mm
100-632-15	15 mm
100-632-20	20 mm
100-632-25	25 mm
100-632-30	30 mm



Smith-Peterson, 200 mm
Osteotome, curved

100-633-06	6 mm
100-633-09	9 mm
100-633-12	12 mm
100-633-15	15 mm
100-633-20	20 mm
100-633-25	25 mm
100-633-30	30 mm



Smith-Peterson, 200 mm
Gouge, Straight

100-672-06	6 mm
100-672-09	9 mm
100-672-12	12 mm
100-672-15	15 mm
100-672-20	20 mm
100-672-25	25 mm
100-672-30	30 mm



Smith-Peterson, 200 mm
Gouge, curved

100-673-06	6 mm
100-673-09	9 mm
100-673-12	12 mm
100-673-15	15 mm
100-673-20	20 mm
100-673-25	25 mm
100-673-30	30 mm



Lambotte, 240 mm
Osteotome, Straight

100-642-06	6 mm
100-642-09	9 mm
100-642-12	12 mm
100-642-15	15 mm
100-642-20	20 mm
100-642-25	25 mm
100-642-30	30 mm

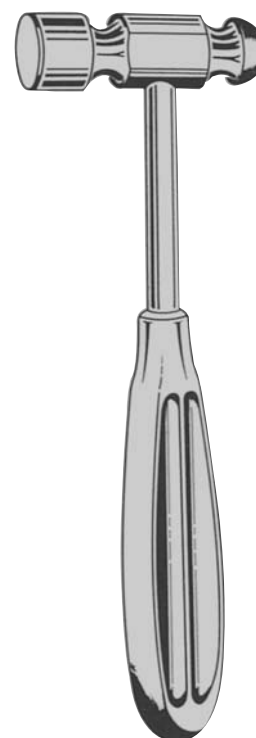
**Mallets
Schlägel
Martillos
Martelli
Maillets**



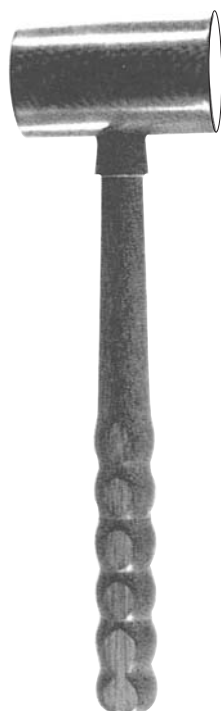
100-605-28 Ø 28 mm, 230 mm



100-616-24 Ø 30 mm + 42 mm



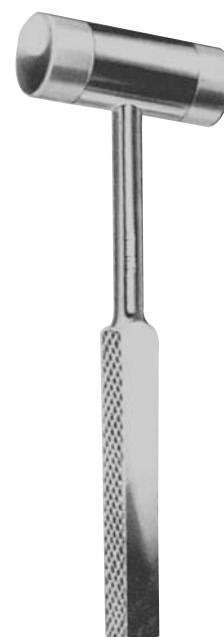
100-615-19 Ø 19 mm, 190 mm
100-615-25 Ø 25 mm, 230 mm
Cervical Mallet



100-609-25
42 mm, 250 mm
Material Ferozell can be sterilized
in an autoclave at 3 bar overpressure
(143° C)

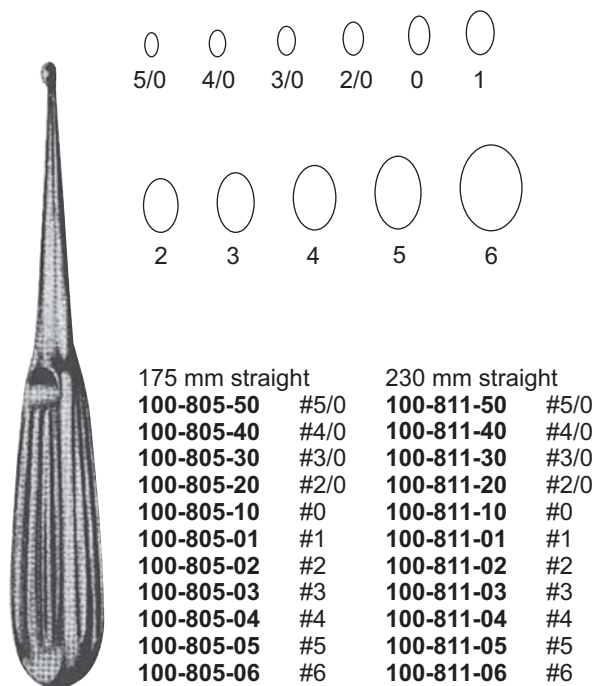


100-610-60 Ø 60 mm, 240 mm
Fiber material

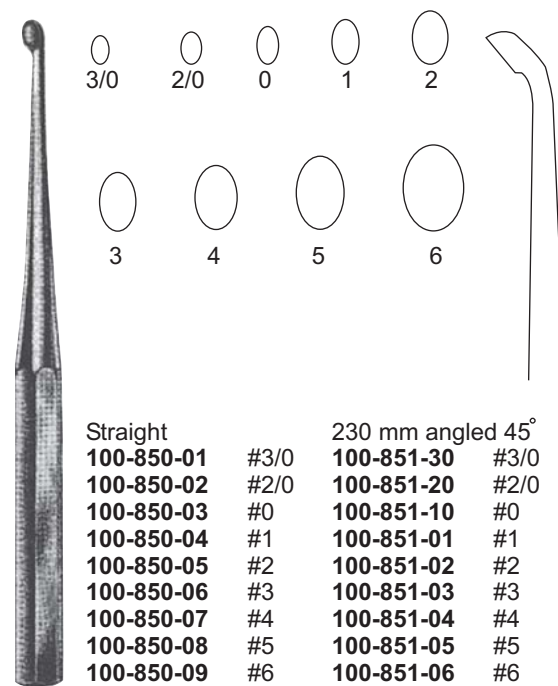


100-612-21 30 mm / 215 g
with interchangeable
Plastic disks 250 mm
100-613-02 Pair of spare disks

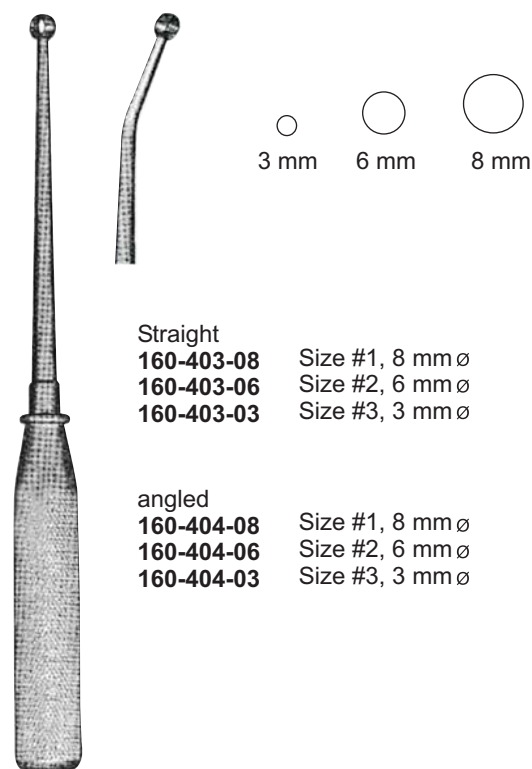
Curette Kürette Cucharilla Curette Curette



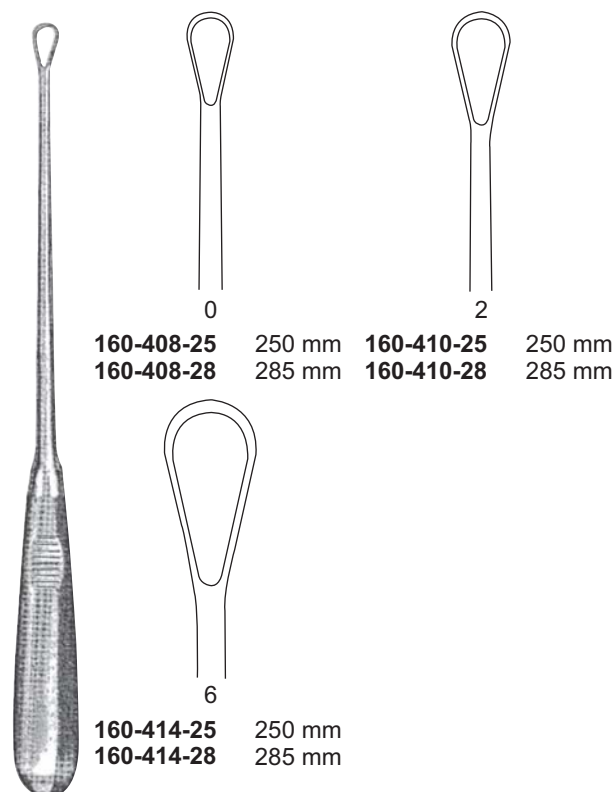
Brun (Spinal Fusion) Curette
with hollow handle, oval cup



Bruns (Spinal Fusion) Curette 230 mm
with solid hexagonal handle

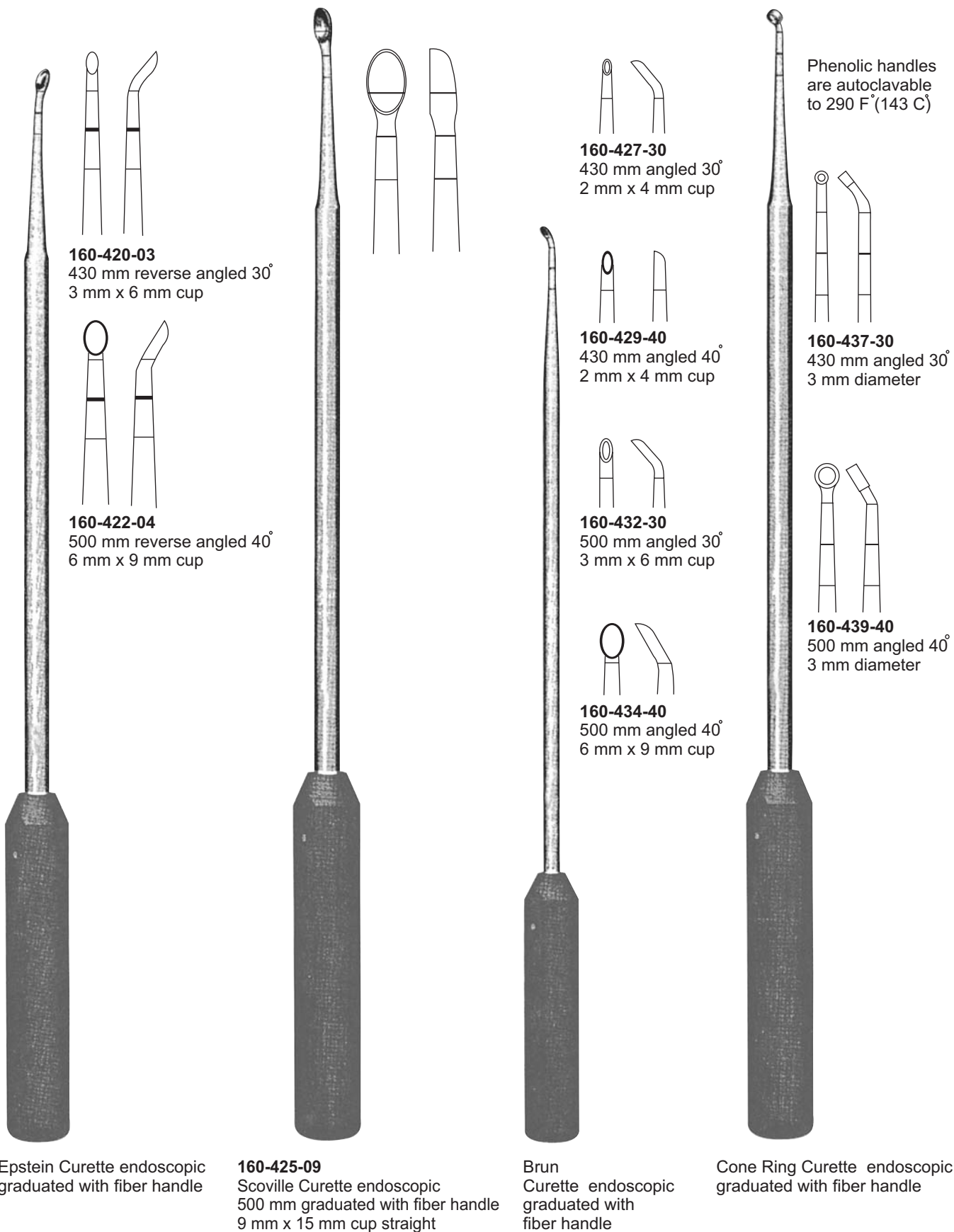


Cone Ring Curette 230 mm
with knurled handle, fenestrated cup



Ring Curette hollow handle,
with fenestrated cup

Curette Kürette Cucharilla Curette Curette



Intervertebral Disc Rongeur

intervertebral disc Knochenzange

Gubias para Disco Intervertebral

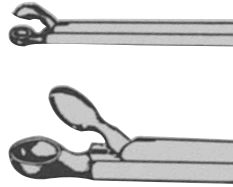
Sgorbie per Disco Intervertebrale

Rongeur pour disques intervertébraux

4 mm

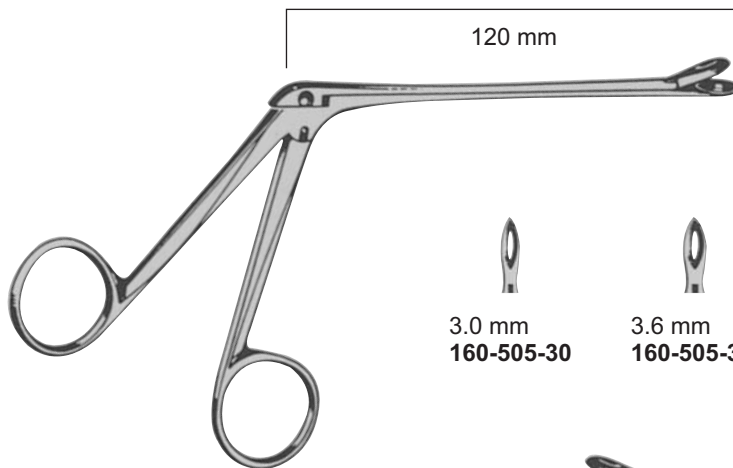
5 mm

6 mm



OldBerg	
Shaft	180 mm
Bite ø 4 mm	160-502-04
Bite ø 5 mm	160-502-05
Bite ø 6 mm	160-502-06

Also Pituitary Rongeur



Weil - Blakesley

3.0 mm
160-505-30

3.6 mm
160-505-36

4.2 mm
160-505-42

4.8 mm
160-505-48

5.8 mm
160-505-58

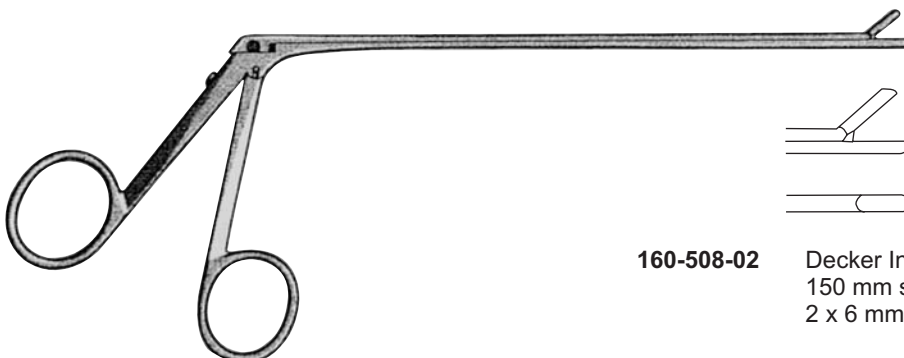
160-506-04
small
4 x 9 mm bite

160-506-05
Medium
5 x 10 mm bite

160-506-06
large
6 x 11 mm bite

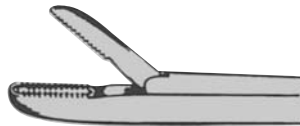


Wilde Intervertebral Disc Rongeur
125 mm shaft
fenestrated jaws straight



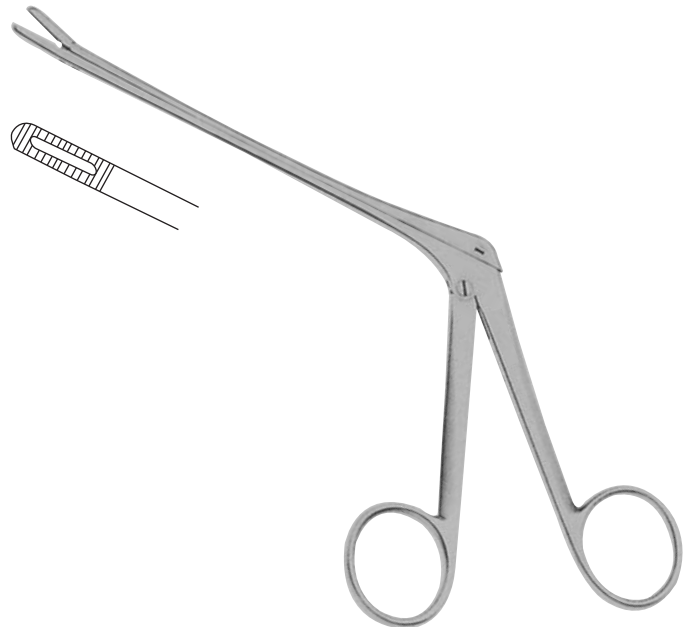
160-508-02 Decker Intervertebral Disc Rongeur
150 mm shaft
2 x 6 mm bite straight

Intervertebral Disc Rongeur
intervertebral disc Knochenzange
Gubias para Disco Intervertebral
Sgorbie per Disco Intervertebrale
Rongeur pour disques intervertébraux



Straight

Shaft	130 mm	180 mm
Bite 2 x 10 mm	160-511-02	160-512-02
Bite 3 x 10 mm	160-511-03	160-512-03
Bite 4 x 10 mm	160-511-04	160-512-04



Schlesinger



160-515-01 Straight



160-515-02 Angled-up



160-515-03 Angled-down



Shaft 150 mm
 Bite 6 x 10 mm



Cloward-type
 Serrated cup jaws

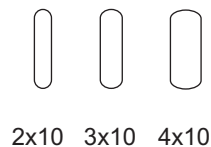
Intervertebral Disc Rongeur

intervertebral disc Knochenzange

Gubias para Disco Intervertebral

Sgorbie per Disco Intervertebrale

Rongeur pour disques intervertébraux



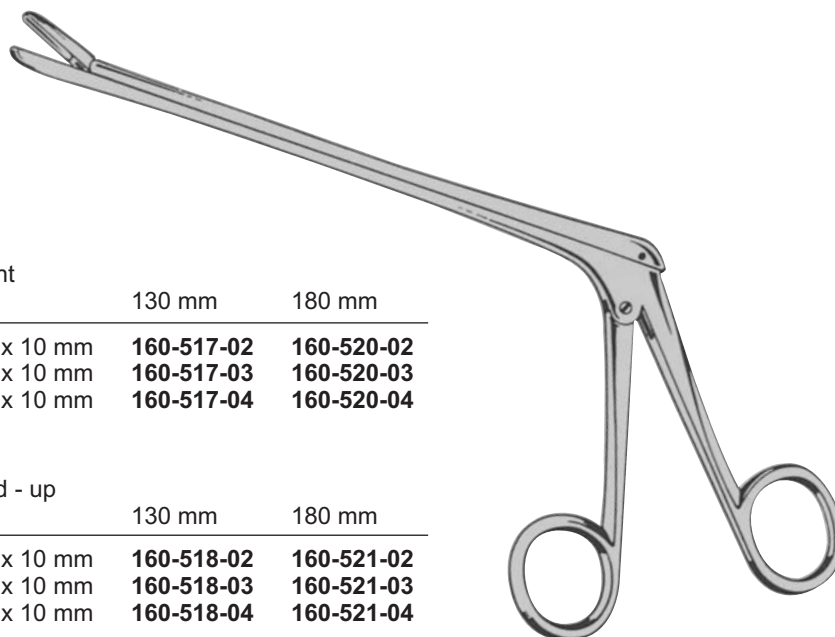
Straight Shaft	130 mm	180 mm
Bite 2 x 10 mm	160-517-02	160-520-02
Bite 3 x 10 mm	160-517-03	160-520-03
Bite 4 x 10 mm	160-517-04	160-520-04



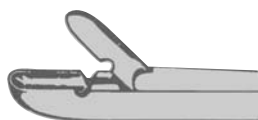
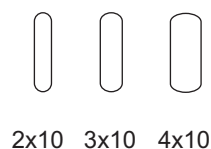
Angled - up Shaft	130 mm	180 mm
Bite 2 x 10 mm	160-518-02	160-521-02
Bite 3 x 10 mm	160-518-03	160-521-03
Bite 4 x 10 mm	160-518-04	160-521-04



Angled - down Shaft	130 mm	180 mm
Bite 2 x 10 mm	160-519-02	160-522-02
Bite 3 x 10 mm	160-519-03	160-522-03
Bite 4 x 10 mm	160-519-04	160-522-04



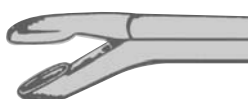
Cushing
Love - Gruenwald
Spurling



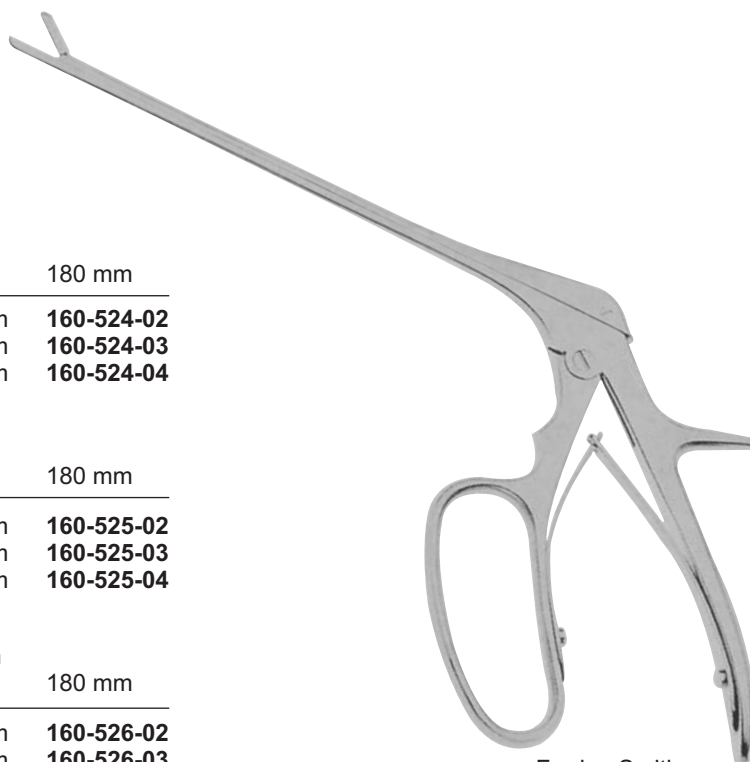
Straight Shaft	180 mm
Bite 2 x 10 mm	160-524-02
Bite 3 x 10 mm	160-524-03
Bite 4 x 10 mm	160-524-04



Angled - up Shaft	180 mm
Bite 2 x 10 mm	160-525-02
Bite 3 x 10 mm	160-525-03
Bite 4 x 10 mm	160-525-04



Angled - down Shaft	180 mm
Bite 2 x 10 mm	160-526-02
Bite 3 x 10 mm	160-526-03
Bite 4 x 10 mm	160-526-04



Ferris - Smith

Laminectomy Rongeur

Laminektomie Knochenzange

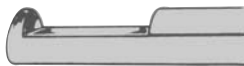
Gubias para Laminectomía

Sgorbie per Laminectomia

Rongeur pour laminectomie



Thin Footplate Kerrison Punch



Forward 90° Thin footplate

□	1 mm bite forward	
	160-531-01	150 mm
	160-532-01	180 mm
	160-533-01	200 mm
□	2 mm bite forward	
	160-531-02	150 mm
	160-532-02	180 mm
	160-533-02	200 mm
□	3 mm bite forward	
	160-531-03	150 mm
	160-532-03	180 mm
	160-533-03	200 mm
□	4 mm bite forward	
	160-531-04	150 mm
	160-532-04	180 mm
	160-533-04	200 mm
□	5 mm bite forward	
	160-531-05	150 mm
	160-532-05	180 mm
	160-533-05	200 mm



Up 40° Thin footplate

□	1 mm bite up	
	160-535-01	180 mm
□	2 mm bite up	
	160-535-02	180 mm
□	3 mm bite up	
	160-535-03	180 mm
□	4 mm bite up	
	160-535-04	180 mm
□	5 mm bite up	
	160-535-05	180 mm



Down 90° Thin footplate

□	1 mm bite down	
	160-538-01	180 mm
□	2 mm bite down	
	160-538-02	180 mm
□	3 mm bite down	
	160-538-03	180 mm
□	4 mm bite down	
	160-538-04	180 mm
□	5 mm bite down	
	160-538-05	180 mm

Laminectomy Rongeur

Laminektomie Knochenzange

Gubias para Laminectomía

Sgorbie per Laminectomia

Rongeur pour laminectomie



Love-kerrison Laminectomy Punch



Forward 90° Regular Footplate

□ 2 mm bite forward
160-541-02 150 mm
160-543-02 200 mm

□ 3 mm bite forward
160-541-03 150 mm
160-543-03 200 mm

□ 4 mm bite forward
160-541-04 150 mm
160-543-04 200 mm

□ 5 mm bite forward
160-541-05 150 mm
160-543-05 200 mm

□ 6 mm bite forward
160-541-06 150 mm
160-543-06 200 mm



Up 40° Regular footplate

□ 2 mm bite up
160-544-02 150 mm
160-546-02 200 mm

□ 3 mm bite up
160-544-03 150 mm
160-546-03 200 mm

□ 4 mm bite up
160-544-04 150 mm
160-546-04 200 mm

□ 5 mm bite up
160-544-05 150 mm
160-546-05 200 mm

□ 6 mm bite up
160-546-06 200 mm



Down 90° Regular footplate

□ 3 mm bite down
160-547-03 150 mm
160-549-03 200 mm

□ 4 mm bite down
160-547-04 150 mm
160-549-04 200 mm

□ 5 mm bite down
160-547-05 150 mm
160-549-05 200 mm

Laminectomy Rongeur Laminektomie Knochenzange Gubias para Laminectomía Sgorbie per Laminectomia Rongeur pour laminectomie

2.0 mm 3.0 mm 3.5 mm



90°

Up-cutting

Shaft

140 mm

Bite 2.0 mm **160-555-02**

Bite 3.0 mm **160-555-03**

Bite 3.5 mm **160-555-04**



90°

Down-cutting

Shaft

140 mm

Bite 2.0 mm **160-556-02**

Bite 3.0 mm **160-556-03**

Bite 3.5 mm **160-556-04**

Shaft 140 mm

Hajek-Kofler

160-560-03

Hajek-Kofler

90°, 3 mm

rotating shaft

1.0 mm

2.5 mm

4.0 mm

Citelli

160-562-01

1.0 mm

160-562-02

2.5 mm

160-562-03

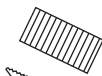
4.0 mm

Impactors / Tamps
Impaktor / Stopfer
Impactores / Rellenos
Impattatori / Riempitivi
Impacteurs / Tasseurs



01

160-603-01
6 mm x 12 mm



02

160-603-02
7 mm x 16 mm



03

160-603-03
6 mm x 13 mm



04

160-603-04
4 mm x 10 mm



05

160-603-05
4 mm x 10 mm



06

160-603-06
10 mm x 13 mm



07

160-603-07
7 mm x 13 mm



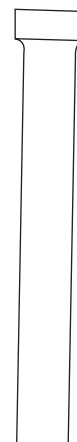
08

160-603-08
10 mm x 13 mm



09

160-603-09
7 mm x 13 mm



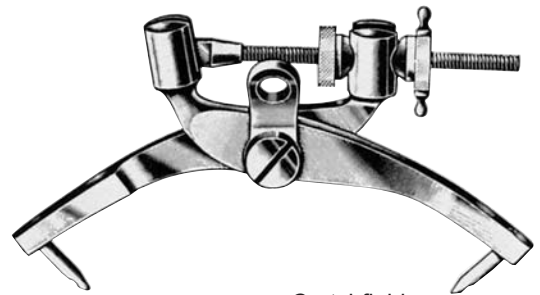
160-603-01
160-603-02
160-603-03
160-603-04
160-603-05
160-603-06
160-603-07
160-603-08
160-603-09

Lumbar And Cervical Impactors and Drivers serrated tips
 Impactor, standard offset, 215 mm
 Impactor, central canal, 215 mm
 Impactor, lateral narrow, 215 mm
 Impactor, micro offset, 180 mm
 Impactor, micro lateral, 180 mm
 Graft Driver, lumbar, guarded, 215 mm
 Graft Driver, anterior, guarded, 215 mm
 Graft Driver, lumbar, unguarded, 215 mm
 Graft Driver, anterior, unguarded, 215 mm

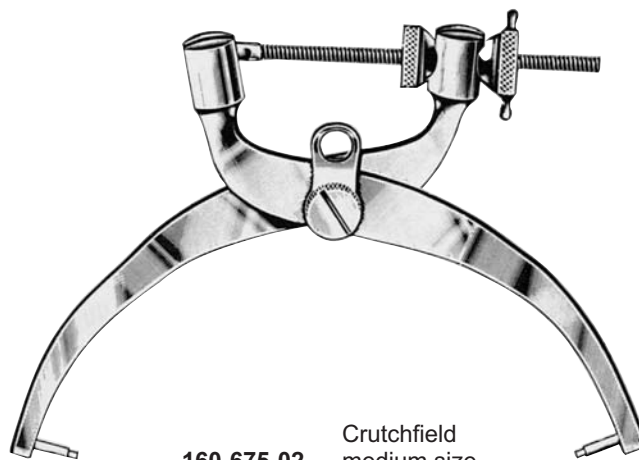
160-607-10

Bone Tamp endoscopic
 430 mm
 10 mm diameter

Skull Traction Tongs For Vertebrae Treatment
Schädelzug Zangen zur Wirbelbehandlung
Estribos de Tracción Craneal para Tratamiento de las Vértabras
Pinze per Trazione Craniale per Trattamento delle Vertebre
Pince de traction du crâne pour traitement des vertèbres



160-675-01 Crutchfield
Small size



160-675-02 Crutchfield
medium size



160-678-03 Crutchfield
Large Size

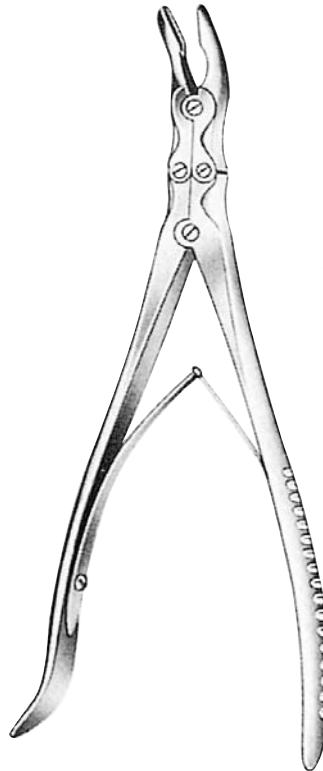


160-683-35 Drill points
160-683-40

Bone Rongeurs
Knochenfazzangen
Gubias
Sgorbie
Rongeurs pour os



Dale Thoracic Rongeur 360 mm slight curve
102-292-03
 3 x 16 mm

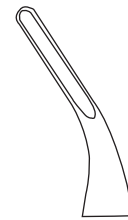


Smith-peterson Laminectomy Rongeur 235 mm

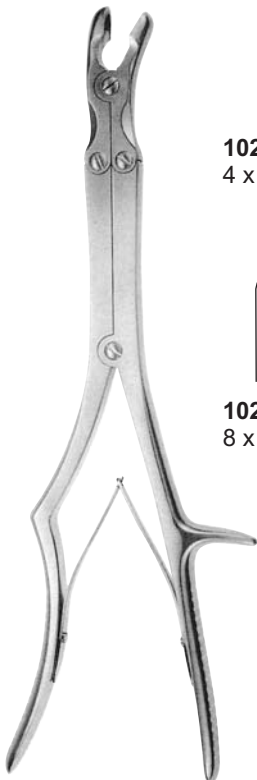
102-295-01
 Straight
 3 x 16 mm bite



102-295-03
 Curved
 3 x 16 mm bite



102-295-07
 Full curved
 3 x 16 mm bite



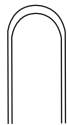
Syoert Rongeur 360 mm slightly angled jaw



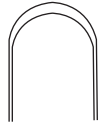
102-298-04
 4 x 16 mm bite



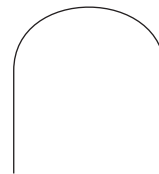
102-298-04
 5 x 16 mm bite



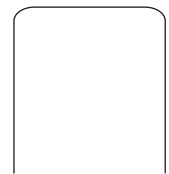
102-298-08
 8 x 16 mm bite



102-298-12
 12 x 16 mm bite



20 mm
100-265-30



20 mm
100-266-30



102-265-30
102-266-30

Sauerbruch 310 mm
 Round
 Straight

Bone Hand Drills Handknochenbohrer Perforador a Mano Perforatori a Mano Perceuses sans fil pour os



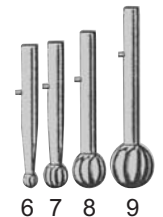
180-003-00
Brace only

180-003-10
Stille
complete with Drills, Burrs
and Trephine Fig. 1-9

Burrs, Drills and
Trephine only



1 2 3 4 5



6 7 8 9

180-004-00

180-004-01
180-004-02
180-004-03
180-004-04

180-004-05

180-004-06
180-004-07
180-004-08
180-004-09

Set of 9 Drills, Burrs and
Trephine Fig. 1-9

Twist Drills

Fig. 1 - Ø 2.5 mm
Fig. 2 - Ø 3.0 mm
Fig. 3 - Ø 3.5 mm
Fig. 4 - Ø 4.0 mm

Trephine

Fig. 5 - Ø 10 mm

Cutting Burrs

Fig. 6 - Ø 5 mm
Fig. 7 - Ø 8 mm
Fig. 8 - Ø 12 mm
Fig. 9 - Ø 16 mm



100-045-01
Bunnell
with channel for k-wires
up to 3 mm diam.

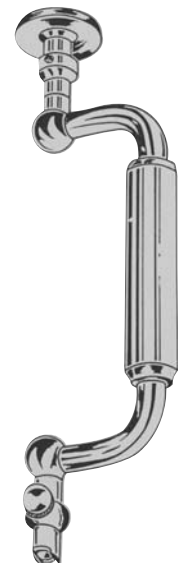


100-050-10
Cerebella extension only



100-050-09
100-050-02

Hudson
Ø 9 mm
Ø 14 mm
Conical Burr



100-050-00
Hudson brace



100-050-05
100-050-03
Hudson
Ø 9 mm
Ø 14 mm
Spherical Burr



100-050-07
Hudson
Ø 14 mm
perforator Drill

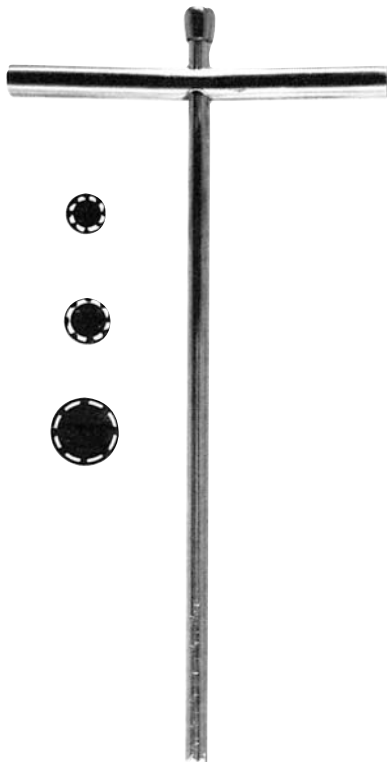


100-050-13
McKenzie
Ø 13 mm
perforator Drill



100-050-16
D'Errico
Ø 16 mm
perforator Drill

Trephines, Wire Saws
Trephine, Drahtsägen
Trépanos, Sierras Eléctricas
Trapani, Seghe Elettriche
Tréfans, scies filaires



180-012-50 Michele
180-012-55 Ø 5.0 mm
180-012-80 Ø 5.5 mm
 Ø 8.0 mm
 Vertebral Body Biopsy Trephine



180-013-04
 Adson
 135 mm
 Ø 4 mm, 12 Fr.



Frazier
 125 mm
180-015-06 Ø 2.0 mm, 6 Fr.
180-015-08 Ø 2.5 mm, 8 Fr.
180-015-10 Ø 3.0 mm, 10 Fr.
180-015-12 Ø 2.5 mm, 12 Fr.

Frazier
 180 mm
180-016-06
180-016-08
180-016-10
180-016-12



90 mm
180-018-01 Ø 1.8 mm + 1.8 mm
180-018-02 Ø 2.5 mm + 2.0 mm
180-018-03 Ø 3.0 mm + 2.0 mm



180 mm
180-019-01
180-019-02
180-019-03
100-870-30 Gigli Saw, stainless 30 mm
100-870-40 Gigli Saw, stainless 40 mm
100-870-50 Gigli Saw, stainless 50 mm
100-870-70 Gigli Saw, stainless 70 mm



100-873-02
 Gigli Handle

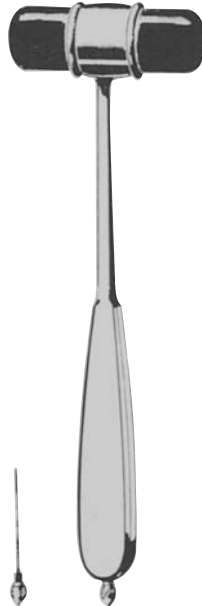


100-879-31 De Martel 310 mm, Saw Guide

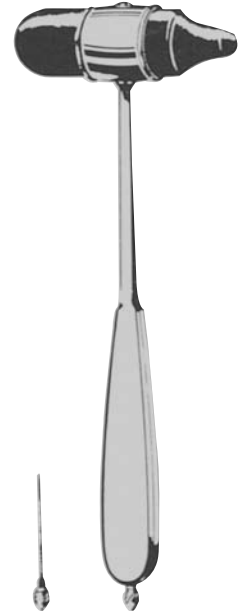
Percussion Hammers
Schlaghammer
Martillos de Percusión
Martelli da Percussione
Marteaux à percussion



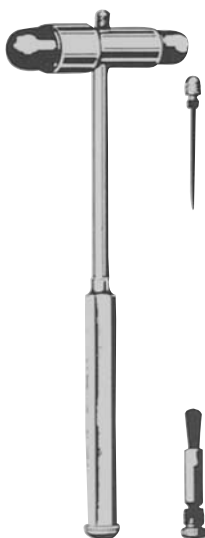
180-025-20 Taylor
200 mm



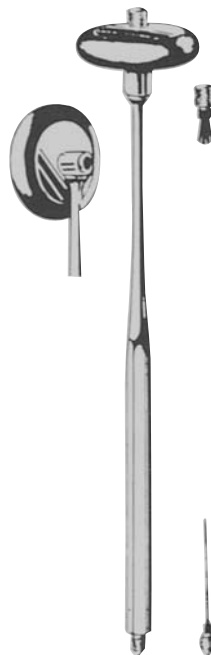
180-027-21 Dejerine
210 mm
with needle



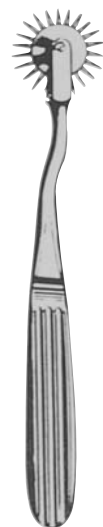
180-028-02 Dejerine modif.
210 mm
with needle



180-030-18 Buck
180 mm
with needle and brush

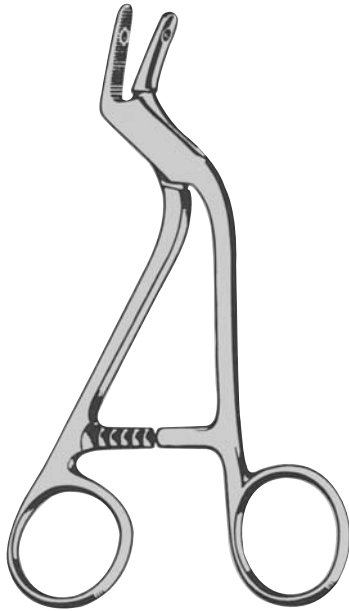


180-031-22 Babinski
220 mm
with needle

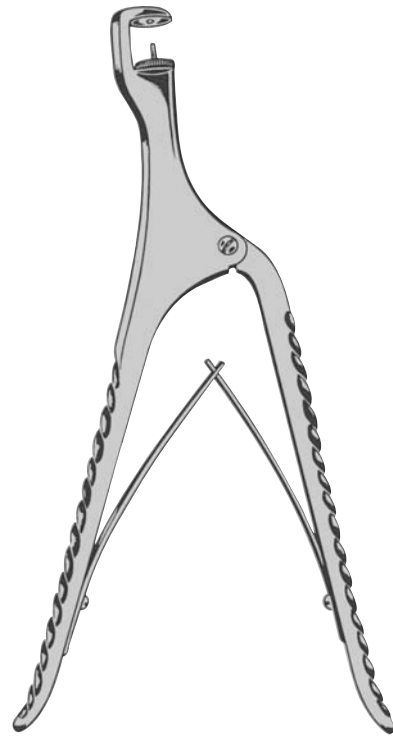


180-033-18 Wartenberg
180 mm
Pinwheel

Cranial Rongeur Forceps
Schädelknochenzange
Pinzas Sacabocado Craneal
Pinze per Craniectomia
Pinces rongeuses craniennes



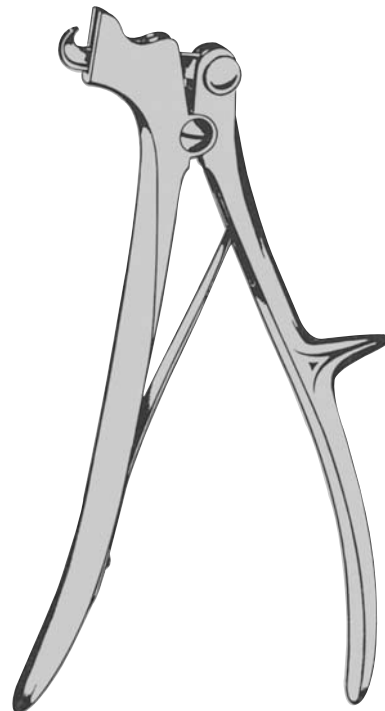
180-054-15 Adson
 150 mm
 Drill Guide and
 Dura Protector



180-057-20 Cone
 200 mm
180-057-23 230 mm
 Skull Punch



180-060-20 Dahlgren
 200 mm
 Complete with 2 Blades

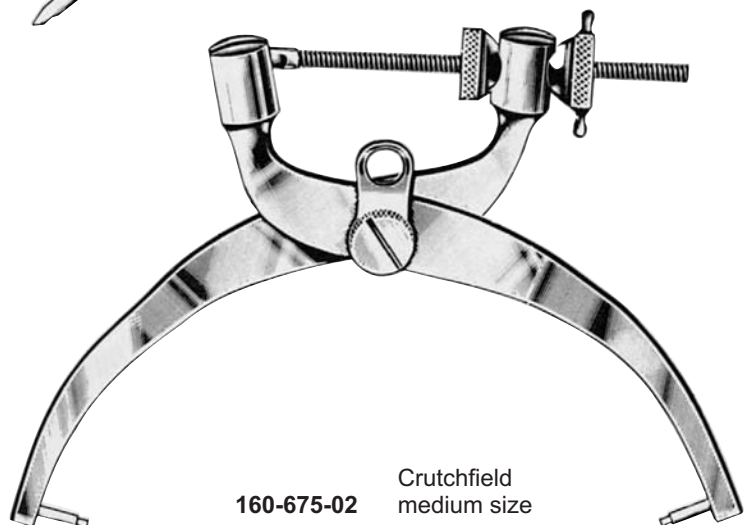


180-063-21 DeVibiss
 210 mm
 complete with 1 small and
 1 large blade

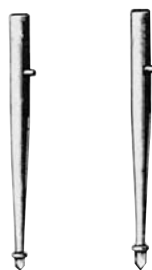
Skull Traction Tongs
Schädelzugzange
Estribos de Tracción Craneal
Pinze per Trazione Craniale
Pinces de traction du crâne



160-675-01 Crutchfield
Small size



160-675-02 Crutchfield
medium size



160-683-35 Drill points
160-683-40



160-678-03 Crutchfield
Large size

Nerve Hooks Nervenhaken Ganchos para Nervios Uncini per Nervi Crochets nerveux



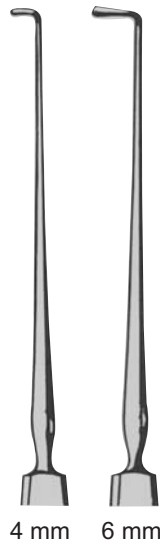
Lucae
140 mm

180-080-02 2 mm
180-080-03 3 mm
180-080-04 4 mm



Cushing
190 mm

180-083-04 4 mm
180-083-06 6 mm



Cushing
280 mm

180-085-04 4 mm
180-085-06 6 mm



180-089-03
Adson
3 mm, 200 mm
sharp



180-090-03
Adson
3 mm, 200 mm
Blunt



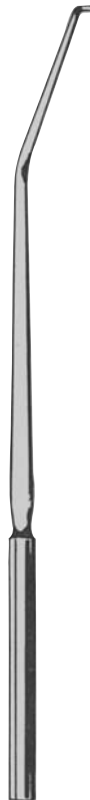
180-092-07
Crile
7 mm, 200 mm



180-095-21
Dandy
210 mm
straight



180-096-01
Dandy
210 mm
left



180-096-02
Dandy
210 mm
right



180-097-16
Graham
165 mm



180-099-21
Smithwick
210 mm

Nerve Hooks, Nerve Separators
Nervenhaken, Nervtrenner
Ganchos para Nervios, Separadores para Nervios
Uncini per Nervi, Divaricatori per Nervi
Crochets nerveux, séparateurs de nerfs



180-106-01
 Scoville
 300 mm
 Nerve Hook and
 Dissector



180-107-03
 Scoville
 300 mm
 Nerve Hook and
 Dissector



180-109-30
 Scoville
 300 mm
 Sympathectomy Hook and
 Dissector



180-112-04
 Davis
 4 mm, 190 mm



180-112-03
 Sachs
 3 mm, 200 mm



180-112-06
 Sachs
 6 mm, 200 mm
 Nerve Separator and Spatula



180-115-25
 Frazier
 125 cm



180-118-01
 Small



180-122-13
 large



180-122-13
 Straight
 130 mm



180-125-13
 Lahey Clinic
 130 mm



180-127-13
 Sachs
 185 mm



180-129-16
 160 mm

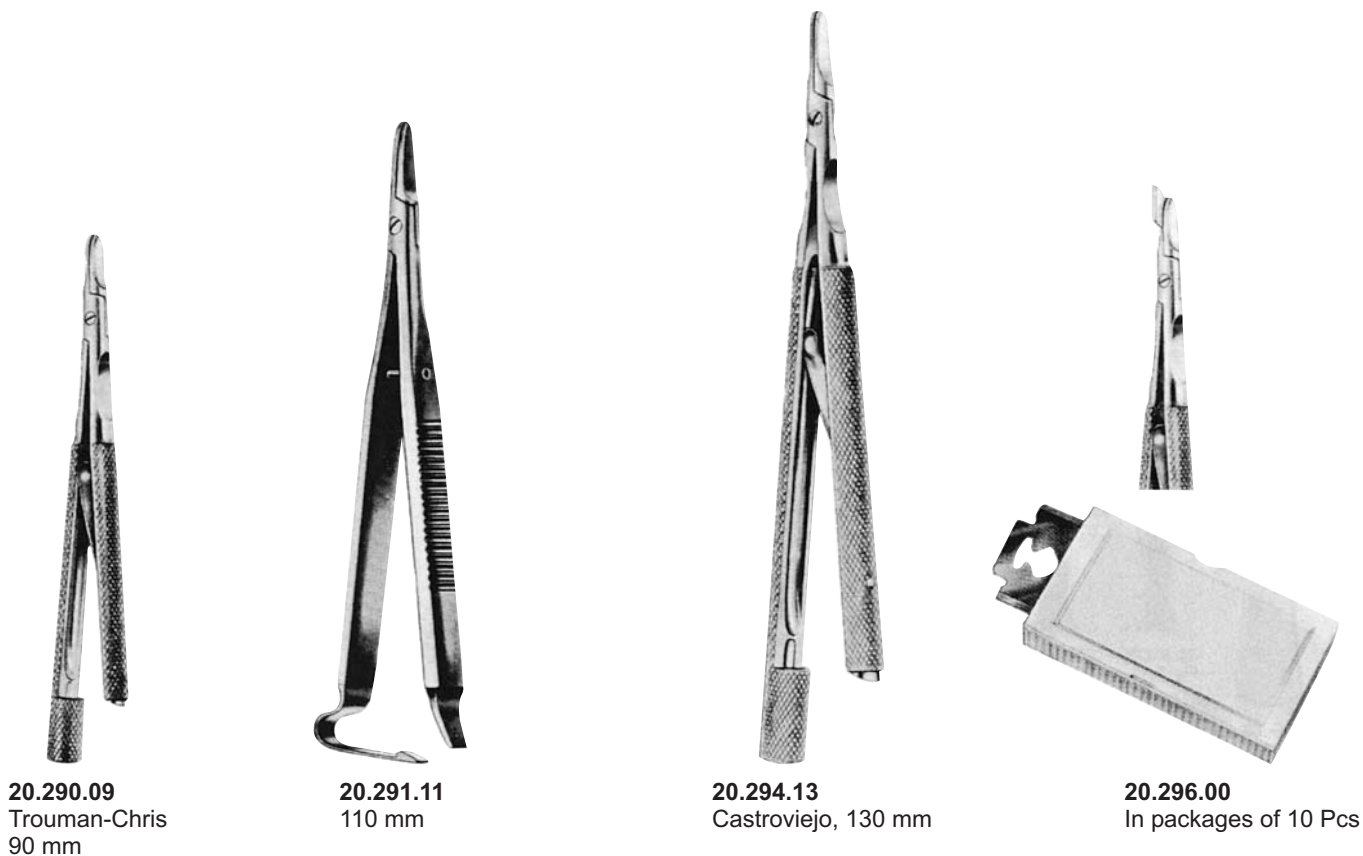
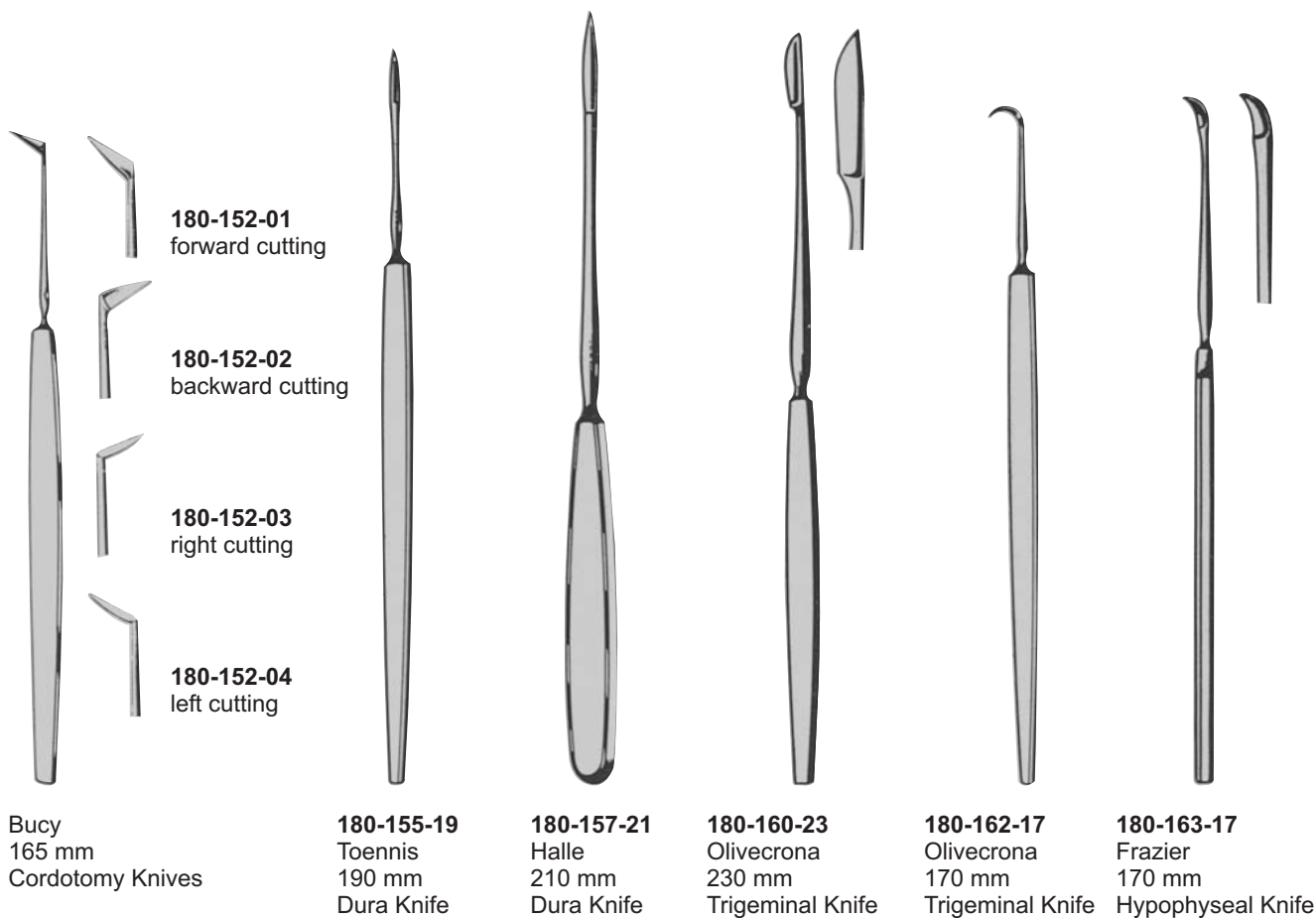


180-132-15
 Toennis
 150 mm



180-135-16
 Dura Twist Hook
 140 mm

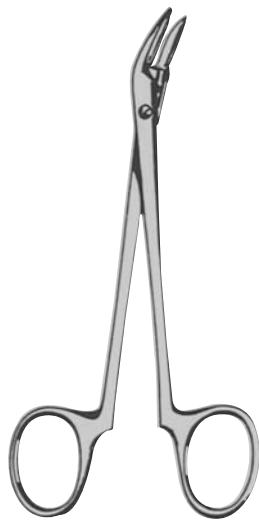
Knives Messer Cuchillos Coltelli Couteaux



Scalp Clips & Flap Forceps
Kopfhautklammer & Lappenzange
Grapa para Cuero Cabelludo y Pinzas para Lóbulos
Pinze per il Cuoio Capelluto e Pinze per Lobi
Pinces pour scalp & pinces pour volets



180-175-12
Michel 125 mm
Applying
Forceps



180-178-02
Michel 120 mm
Clip Applying and
Removing Forceps



180-181-13
Collinl, 130 mm
Clip Removing
Forceps



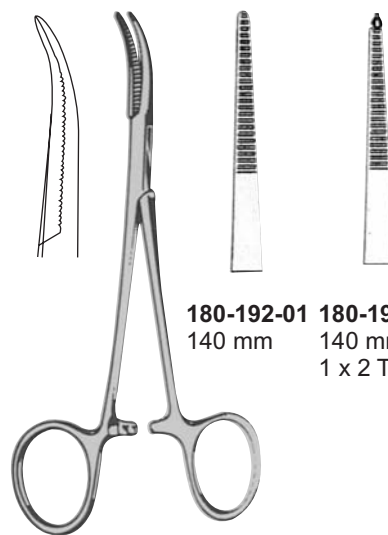
180-184-05
Raney
applying and
Removing Forceps
for Scalp Clip



DeMartel
180-186-13 135 mm
180-186-18 185 mm
slightly curved



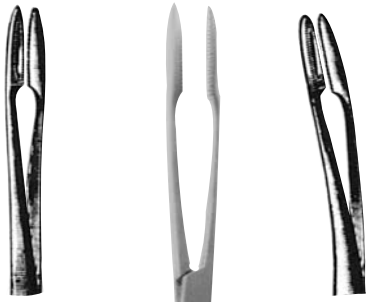
180-190-13
Dandy-Baby, 130 mm
delicate pattern



180-192-01 140 mm
180-192-12 140 mm
1 x 2 Teeth

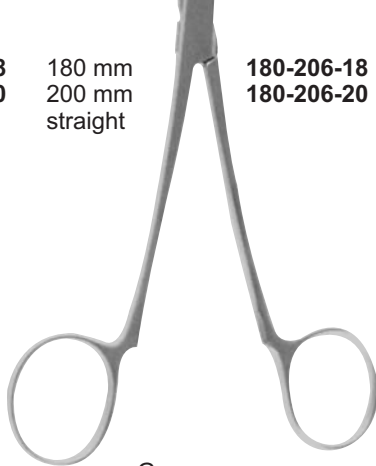
Dandy, 140 mm

Sponge Holding Forceps
Schwammhaltezeange
Pinzas para Tapones
Pinze per Tamponi e Spugne
Pince porte-éponge



180-205-18 180 mm
180-205-20 200 mm
 straight

180-206-18 180 mm
180-206-20 200 mm
 curved



Gross
 without ratchet



180-209-18 180 mm
180-209-20 200 mm
 straight

180-210-18 180 mm
180-210-20 200 mm
 curved

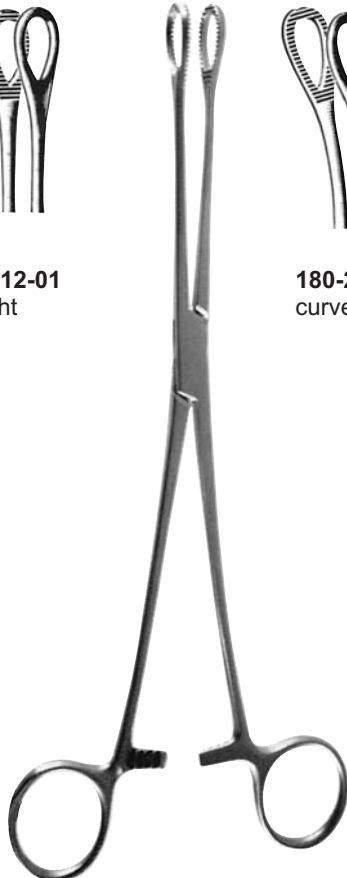


Gross
 with ratchet



180-212-01
 straight

180-212-02
 curved



Foerster Serrated
 240 mm



180-215-01
 straight

180-215-02
 curved



Foerster Smooth
 240 mm

Thumb & Tissue Forceps

Gewebepinzetten

Pinzas para Tejidos

Pinze per Tenuta Organi

Pinces pour tissus & pouce



24.102.11	115 mm
24.102.13	130 mm
24.102.14	145 mm
24.102.16	160 mm
24.102.18	180 mm
24.102.20	200 mm
24.102.25	250 mm
24.102.30	300 mm



USA

24.104.11	115 mm
24.104.13	130 mm
24.104.14	145 mm
24.104.15	155 mm
24.104.18	180 mm
24.104.21	210 mm
24.104.25	250 mm



Stille

24.106.15	150 mm
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Narrow

24.110.11	115 mm
24.110.13	130 mm
24.110.14	145 mm
24.110.16	160 mm



Potts-Smith

24.112.18	180 mm	24.116.18 TC	180 mm
24.112.21	210 mm	24.116.21 TC	210 mm
24.112.25	250 mm	24.116.25 TC	250 mm



Potts-Smith

24.126.18	180 mm
24.126.21	210 mm
24.126.25	250 mm

Thumb & Tissue Forceps

Gewebepinzetten

Pinzas para Tejidos

Pinze per Tenuta Organi

Pinces pour tissus & pouce



24.120.11 115 mm
 24.120.13 130 mm
 24.120.14 145 mm
 24.120.16 160 mm
 24.120.18 180 mm
 24.120.20 200 mm
 24.120.25 250 mm
 24.120.30 300 mm



24.122.11 115 mm
 24.122.13 130 mm
 24.122.15 155 mm
 24.122.18 160 mm
 24.122.21 200 mm
 24.122.25 210 mm



Stille
 24.124.15 150 mm



Narrow
 24.130.13 130 mm
 24.130.14 145 mm
 24.130.16 160 mm



24.112.14 145 mm
 24.112.16 160 mm
 24.112.20 200 mm



24.150.14 145 mm
 24.150.16 160 mm



24.160.14 145 mm
 24.160.16 160 mm

Thumb & Tissue Forceps
Gewebepinzetten
Pinzas para Tejidos
Pinze per Tenuta Organi
Pinces pour tissus & pouce



24.170.12 Adson 120 mm
24.174.12 TC 120 mm
24.170.15 150 mm
24.174.15 TC 150 mm



24.176.12
 Adson-Micro
 120 mm



24.220.17
 Cushing
 170 mm



24.180.12 Adson 120 mm
24.180.15 150 mm



24.186.12
 Adson-Micro
 120 mm



24.188.12
 Adson.Brown
 120 mm



24.189.16 Brown 160 mm
24.189.20 200 mm
24.189.25 250 mm



24.190.10
 Graefe
 105 mm



24.230.17
 Cushing
 170 mm

Thumb & Tissue Forceps
Gewebepinzetten
Pinzas para Tejidos
Pinze per Tenuta Organi
Pinces pour tissus & pouce



24.232.15
 Lerche
 150 mm



Adlerkreuz
24.236.15 150 mm
24.236.20 200 mm



24.240.14
 Lane
 140 mm



24.242.14
 Lane
 140 mm

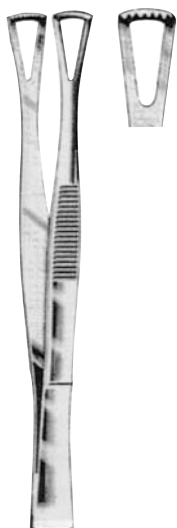


24.246.18
 Ferris-Smith
 180 mm

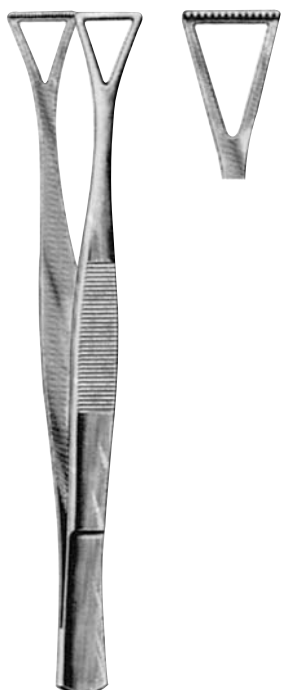


24.248.18
 Ferris-Smith
 180 mm

Thumb & Tissue Forceps
Gewebepinzetten
Pinzas para Tejidos
Pinze per Tenuta Organi
Pinces pour tissus & pouce



24.250.14
 Duval
 145 mm



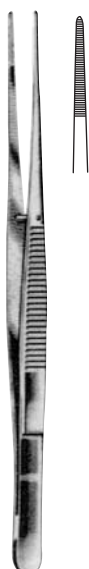
24.252.20
 Collin-Duval
 200 mm



24.256.15 Russ-Mod 150 mm
24.256.20 200 mm
24.256.25 250 mm



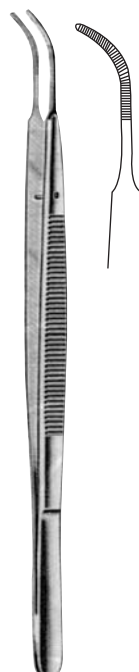
24.258.15
 McIndoe
 150 mm



24.260.12 Semken 125 mm
24.260.15 150 mm



24.302.18
 Gerald
 180 mm



24.303.18
 Gerald
 180 mm



24.305.18
 Gerald
 180 mm

Thumb & Tissue Forceps
Gewebepinzetten
Pinzas para Tejidos
Pinze per Tenuta Organi
Pinces pour tissus & pouce



24.270.12 Semken
125 mm
24.270.15 155 mm



24.272.15 Gillies
155 mm



24.310.18 Gerald
180 mm



24.311.18 Gerald
180 mm



24.313.18 Gerald
180 mm



24.320.23 Singley
230 mm



24.322.23 Nelson
230 mm



24.324.23 Wangenstein
230 mm

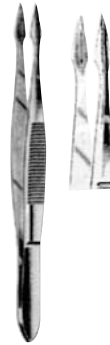
**Splinter Forceps
Splitterzange
Pinzas para Espinas
Pinze per Schegge
Pincette à corps étrangers**



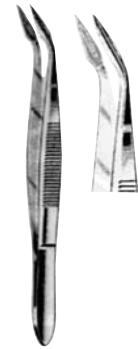
24-802-09 90 mm
24-802-11 115 mm



Feilchenfeld
24-810-07 75 mm
24-810-11 115 mm



24-812-10
Hunter
105 mm



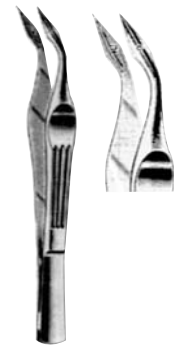
24-813-10
Hunter
105 mm



24-815-12
125 mm



24-815-10
Carmalt
105 mm



24-817-10
Carmalt
105 mm



24-821-11
Peet
115 mm



Stiegleitz 135 mm
24-822-13 straight
24-823-13 curved



Archer 140 mm
24-824-14 straight
24-825-14 curved



24.828.15
Archer (Ralk)
150 mm

Atrauma Tissue Forceps
Atraumatisch Gewebezange
Pinzas de Disección No Traumáticas
Pinze Atraumatiche
Pinces pour tissus atraumatique



2.0 mm

DeBakey-Adson
180-225-12 125 mm
180-225-15 150 mm



DeBakey
 straight



1.5 mm



2.0 mm



2.7 mm

Length	1.5 mm tip	2.0 mm tip	2.7 mm tip
160 mm	180-228-16	180-229-16	180-230-16
200 mm	180-228-20	180-229-20	180-230-20
240 mm	180-228-24	180-229-24	180-230-24
300 mm	180-228-30	180-229-30	180-230-30



DeBakey
 angled



1.5 mm



2.0 mm



2.7 mm

Length	1.5 mm tip	2.0 mm tip	2.7 mm tip
160 mm	180-233-16	180-234-16	180-235-16
200 mm	180-233-20	180-234-20	180-235-20
240 mm	180-233-24	180-234-24	180-235-24
300 mm	180-233-30	180-234-30	180-235-30



DeBakey
 bayonet



1.5 mm



2.0 mm



2.7 mm

Length	1.5 mm tip	2.0 mm tip	2.7 mm tip
160 mm	180-238-16	180-239-16	180-240-16
200 mm	180-238-20	180-239-20	180-240-20
240 mm	180-238-24	180-239-24	180-240-24
300 mm	180-238-30	180-239-30	180-240-30

Bayonet-Shaped Forceps
Bajonettförmige Pinzette
Pinzas Bayoneta
Pinze a Baionetta
Pinces en forme de bayonette



180-250-18
 Cushing (Taylor)
 185 mm
 serrated



180-251-18
 Cushing (Taylor)
 185 mm
 1 x 2 Teeth



180-252-18
 Taylor
 185 mm
 with TC-jaws



180-253-18
 Serrated
 185 mm



180-254-18
 1 x 2 Teeth
 185 mm



180-255-19
 Cushing-Brown
 190 mm



180-256-19
 Serrated



180-257-19
 1 x 2 Teeth



180-258-18
 Gruenwald
 180 mm
 with TC-jaws

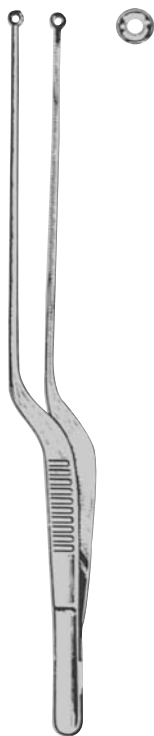


180-259-19
 Micro
 190 mm
 Smooth jaws, blunt

Hypophyseal, Tumor Grasping & Brain Spatula Forceps
Hypophysär, Tumor / Hirnspatelzange
Pinzas para Hipófisis, Pinzas para Tumores, Espátulas Cerebrales
Pinze per Ipofisi, Pinze per Tumori, Spatole Cerebrali
Pinces pour spatule à cerveau, prise de tumeur et d'hypophyse



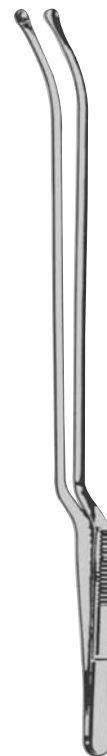
180-270-03
 Ø3 mm, 220 mm
 spoon-shaped jaws



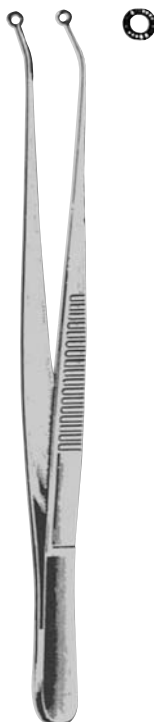
180-270-05
 Ø5 mm, 220 mm
 spoon-shaped jaws



180-272-22
 Adson, 220 mm
 straight



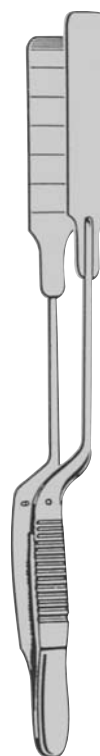
180-272-23
 Adson, 230 mm
 curved



180-276-20
 Hunt
 Ø5 mm, 200 mm
 curved

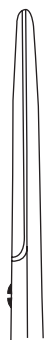


180-277-22
 Hunt
 Ø5 mm, 220 mm
 bayonet-shaped



180-279-22
 Scoville
 220 mm
 blade width 10 mm

Operating & Dissecting Scissors
Operations & Präparierschere
Tijeras Quirúrgicas y de Disección
Forbici per Chirurgia e Dissezione
Ciseaux d'opération et de dissection



22.160.14 145 mm
22.160.17 170 mm
 straight



22.161.14 145 mm
22.161.17 170 mm
 curved



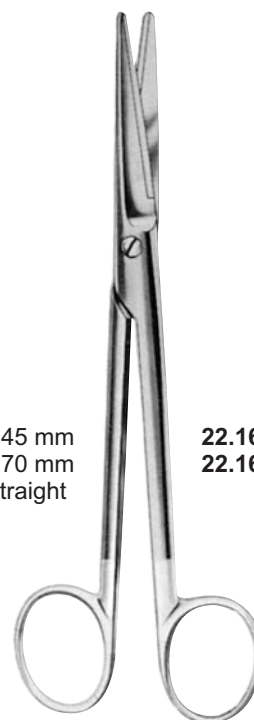
Mayo



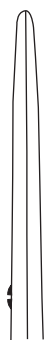
22.164.14 TC 145 mm
22.164.17 TC 170 mm
 straight



22.165.14 TC 145 mm
22.165.17 TC 170 mm
 curved



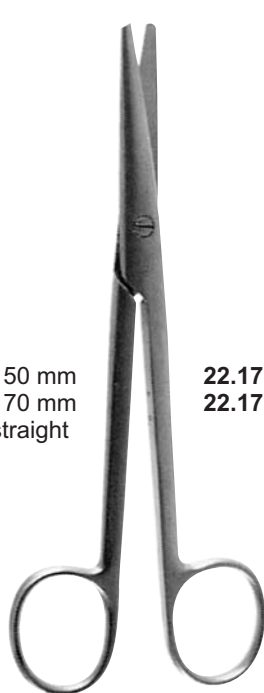
Mayo TC cutting edges



22.170.15 150 mm
22.170.17 170 mm
 straight



22.171.15 150 mm
22.171.17 170 mm
 curved



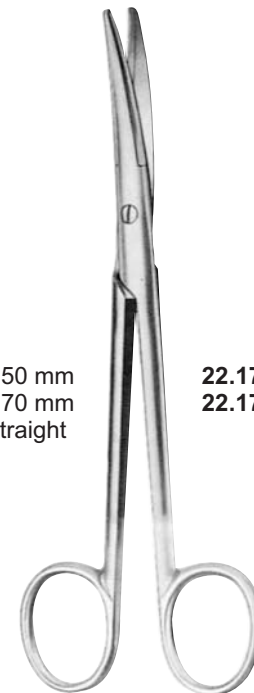
Mayo-Stille



22.174.15 TC 150 mm
22.174.17 TC 170 mm
 straight

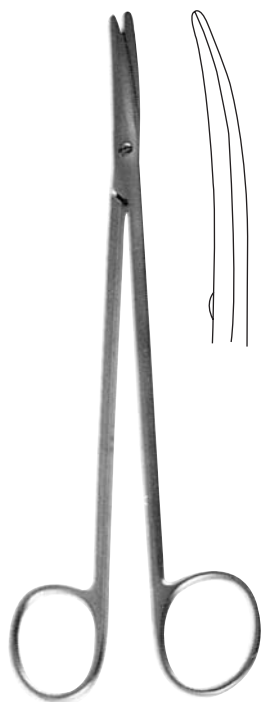


22.175.15 TC 150 mm
22.175.17 TC 170 mm
 curved

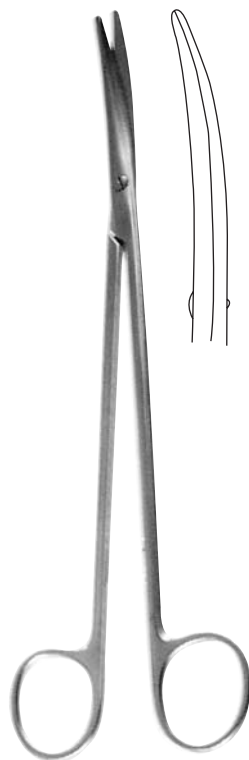


Mayo-Stille TC cutting edges

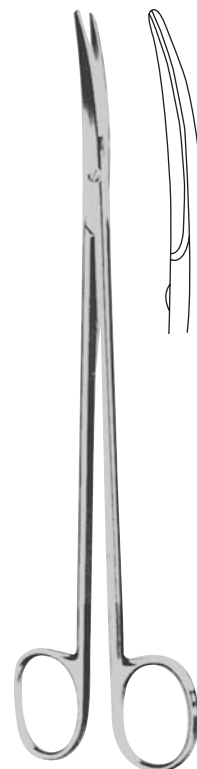
**Dissecting Scissors
Präparierschere
Tijeras de Disección
Forbici per Dissezione
Ciseaux de dissection**



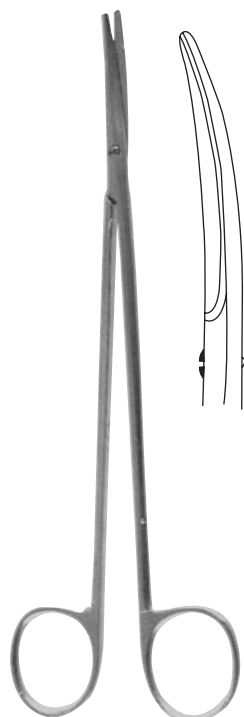
22.281.15 Metezenbaum
150 mm
22.281.18 180 mm
curved



22.283.20 Metezenbaum
200 mm
22.283.23 230 mm
delicate pattern
curved



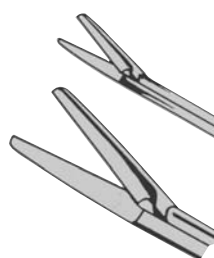
22.287.20 Metezenbaum
200 mm
22.287.23 230 mm
with TC cutting edges
delicate, curved



22.289.18 Metezenbaum
180 mm
22.289.20 200 mm
22.289.23 230 mm
supersharp,
delicate, curved



22.321.18 Reynolds
180 mm
22.321.20 200 mm
curved



22.391.15 Olivecrona
150 mm shaft
Trigeminal Scissors

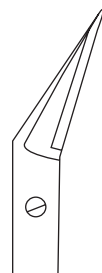
Dissecting Scissors
Präparierschere
Tijeras de Disección
Forbici per Dissezione
Ciseaux de dissection



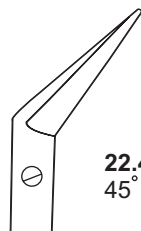
Potts-Smith, 190 mm



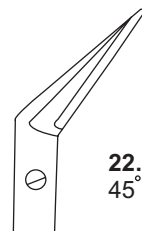
22.480.25
25°



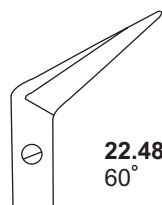
22.484.25
25°



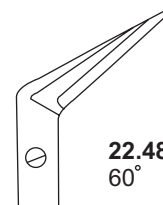
22.480.45
45°



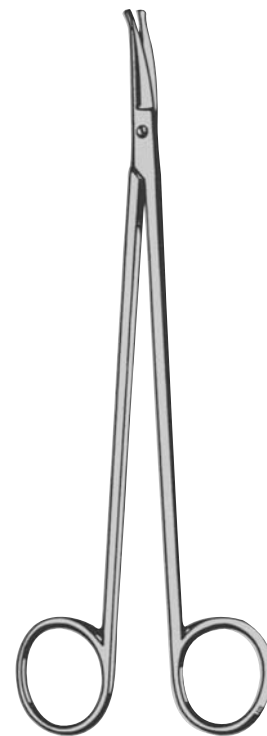
22.484.45
45°



22.480.60
60°



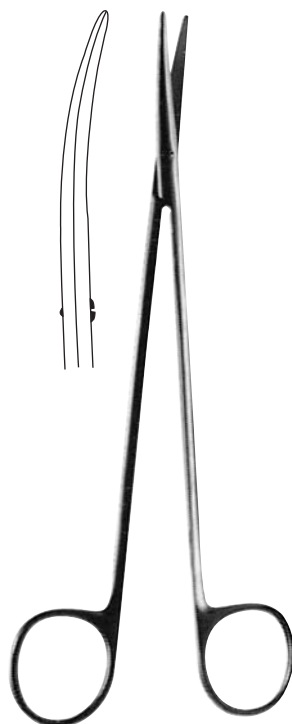
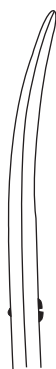
22.484.60
60°



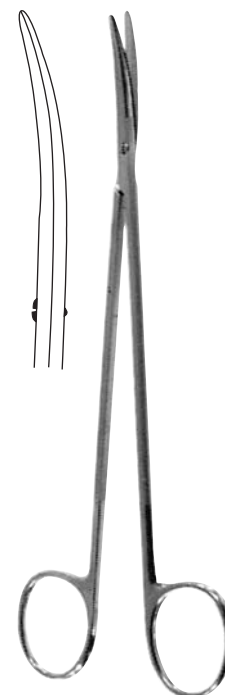
22.601.20
Strully
220 mm
probe-pointed



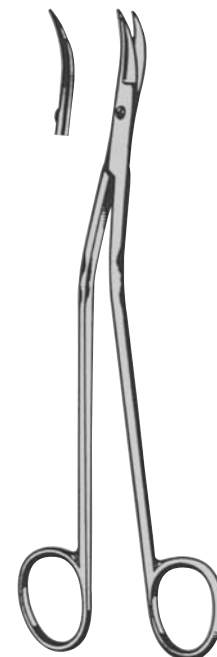
22.611.18
Toennis
180 mm
curved



22.613.18
Toennis-Adson
180 mm
extra-delicate
curved

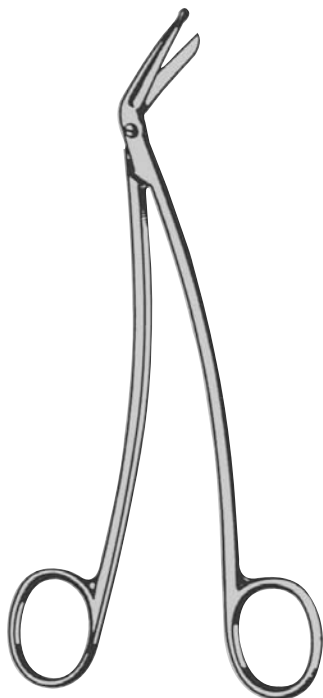


22.613.18 TC
Toennis-Adson
180 mm
with TC cutting edges,
extra-delicate, curved



22.617.17
22.617.19
Dandy
170 mm
190 mm
Trigeminal Scissors

**Neurosurgical Scissors
Neurochirurgische Schere
Tijeras Neuroquirúrgicas
Forbici Neurochirurgiche
Ciseaux de neurochirurgie**



22.619.17
Schmieden (Taylor)
160 mm
Dural Scissors



22.930.18
sharp points

22.931.18
blunt points



DeMartel, 180 mm
straight



22.932.18
sharp points

22.933.18
blunt points



DeMartel, 180 mm
curved



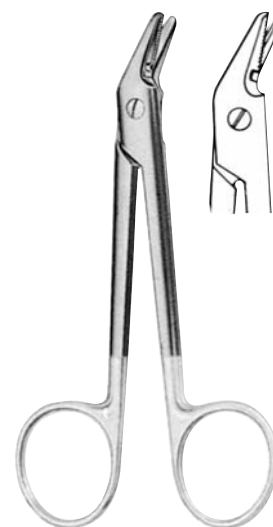
22.936.16
straight



22.937.16
curved



Adson (Kelly)
160 mm
Ganglion-Scissors



130-200-10
130-200-12
Universal Scissors
Universal Scissors
with TC cutting edge

Needle Holders

Nadelhalter

Porta-Agujas

Porta Aghi

Porte-aiguilles



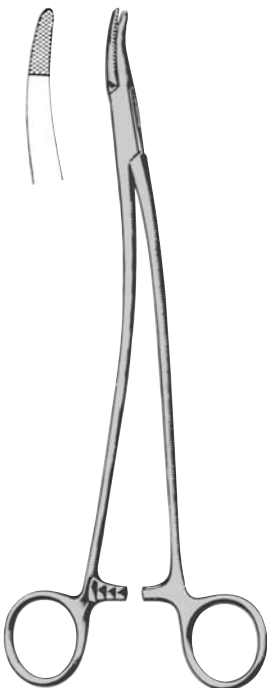
Mayo-Hegar with TC tips
34.184.14 140 mm
34.184.18 180 mm
34.184.20 200 mm



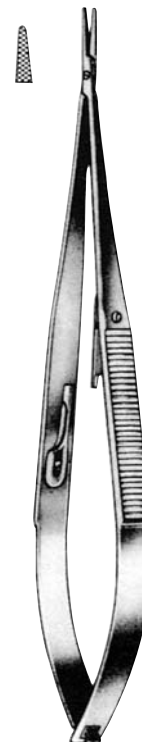
Crile-Wood with TC tips
34.164.15 150 mm
34.164.18 180 mm
34.164.20 200 mm
34.164.23 230 mm



French Eye delicate, narrow jaws
34.224.15 150 mm
34.224.18 180 mm
34.224.20 200 mm
34.224.23 230 mm



Stratte jaws and shanks curved
 with TC tips
34.334.20 200 mm
34.334.23 230 mm



Castroviejo with TC tips,
 with catch, serrated jaws
34.696.14 TC 140 mm
34.696.17 TC 170 mm

Castroviejo with TC tips,
 with catch, smooth jaws
34.692.14 TC 140 mm
34.692.17 TC 170 mm

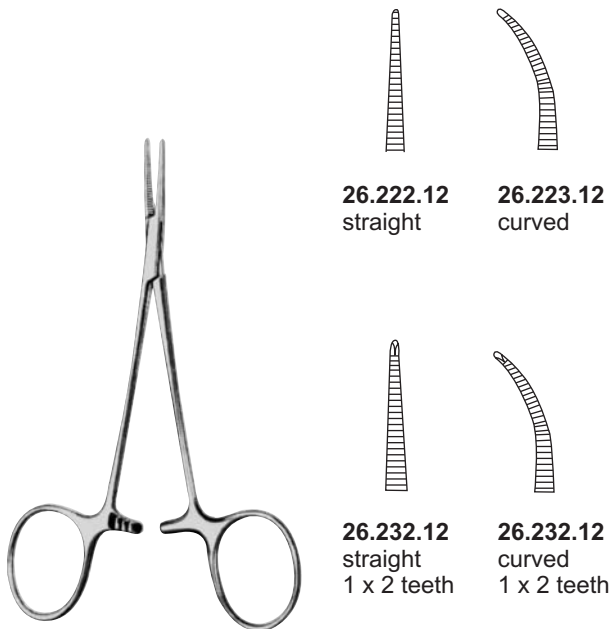
Artery Forceps

Arterienunterbindungspinzette

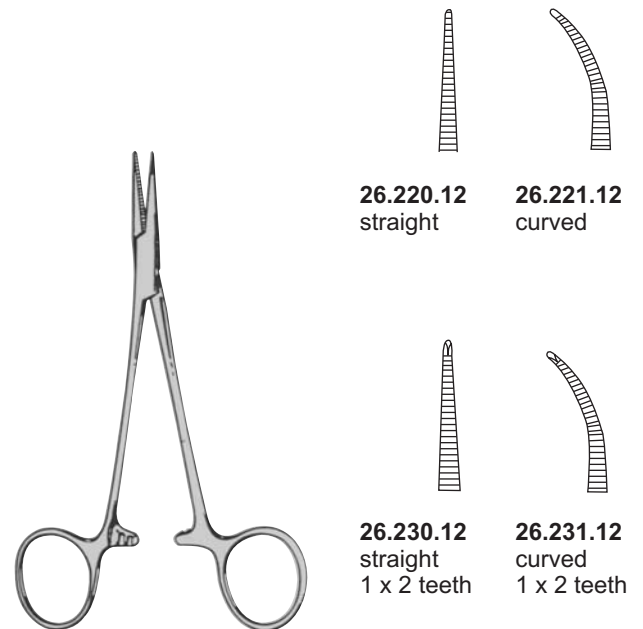
Pinzas Hemostáticas

Pinze Emostatiche

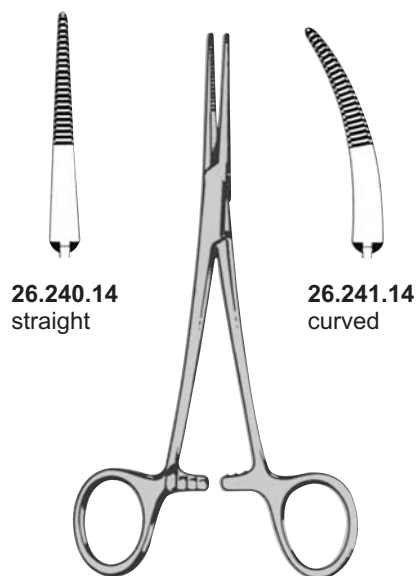
Pinces pour artères



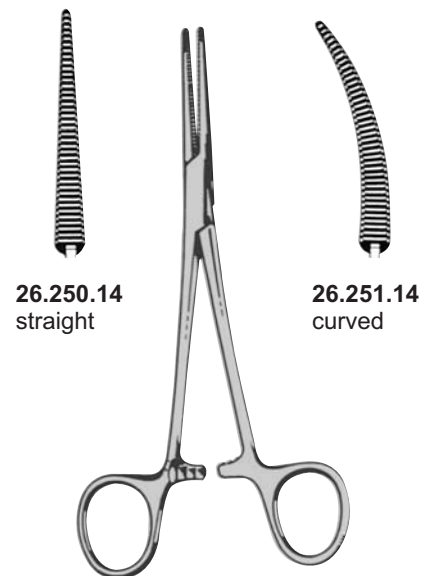
Halstead Mosquito Micro, 125 mm



Halstead Mosquito, 125 mm

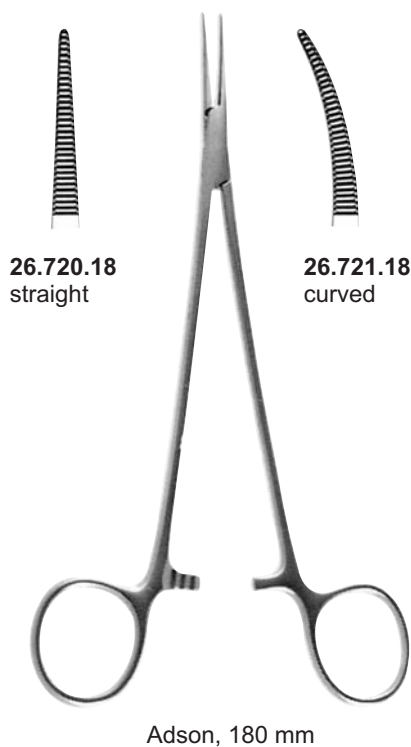
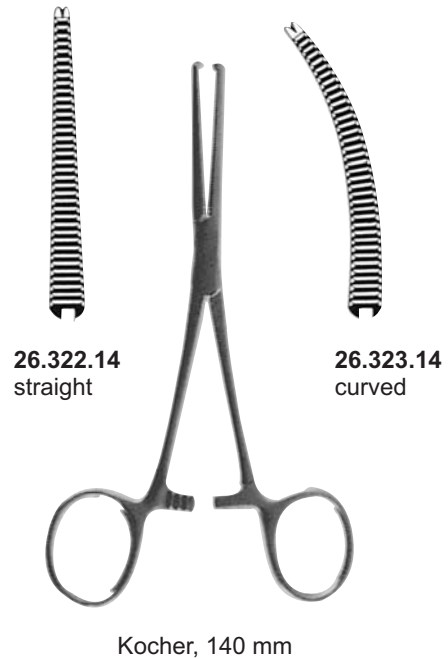
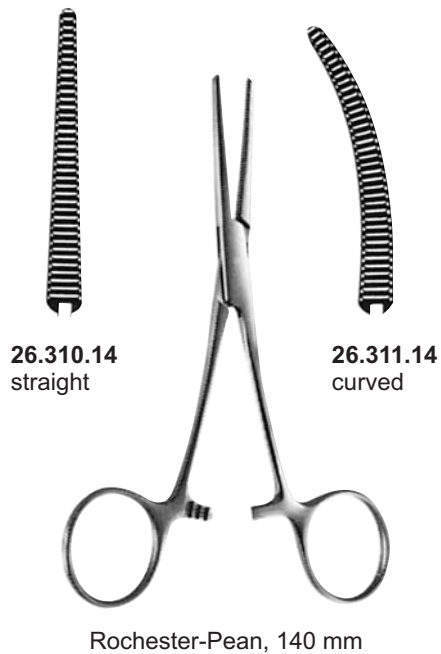


Kelly, 140 mm

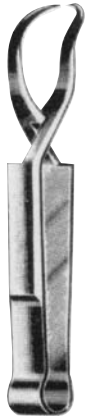


Crile, 140 mm

Artery Forceps
Arterienunterbindungspinzette
Pinzas Hemostáticas
Pinze Emostatiche
Pinces pour artères



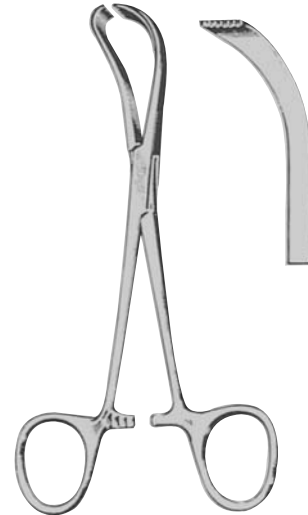
Towel Clips & Tubing Clamp Forceps
Tuchklemmen & Schlauchklammerpinzetten
Pinzas de Campo & Pinzas para Tubos
Pinze Fissateli & Pinze Serratubi
Pinces à serviette et pinces clamp de tubulure



28.101.09
 Schaedel, 90 mm



28.111.09 Backhaus 90 mm
28.111.11 110 mm
28.111.13 130 mm



28.121.13
 Lorna, 130 mm



28.714.16 Presbyterian 160 mm
28.714.18 180 mm
28.714.20 200 mm



28.710.15 Schoenberg 150 mm
28.710.18 180 mm
28.710.20 200 mm

Micro Forceps
Mikro-Zängchen
Pinzas para Microscopía
Pinze per Microscopia
Micro-pinces



180-302-13
 135 mm
 straight



180-303-04
 4 cm, 110 mm
 straight



180-303-05
 5 cm, 110 mm
 straight



180-306-11
 110 mm
 angled tips



180-307-07
 7 cm, 115 mm
 curved



180-315-05
 140 mm
 straight, tips 0.5 mm



180-315-08
 140 mm
 straight, tips 0.8 mm



180-322-19
 195 mm
 sharp tips



180-325-01
 straight



180-326-03
 curved



180-329-06
 angled

195 mm
 smooth jaws, blunt

Micro Suture Tying Forceps
Mikro Nahtbindende Pinzetten
Micro Pinzas para Anudar
Micro Pinze per Legature
Pinces de resserrage de micro-suture



180-331-12
 Micro Adson, 120 mm
 Platform 1 mm wide



180-332-12
 Micro Adson, 120 mm
 1 x 2 teeth
 Platform 1 mm wide



180-340-14 120 mm
180-340-19 195 mm
 Platform 0.8 mm wide



180-346-12 120 mm
180-346-15 150 mm
180-346-18 180 mm
 platform 0.3 mm wide,
 straight



180-347-12 120 mm
180-347-15 150 mm
180-347-18 180 mm
 platform 0.3 mm wide,
 curved



180-362-12 120 mm
180-362-15 150 mm
180-362-18 180 mm
 sharp tips,
 straight



180-364-12 120 mm
180-364-15 150 mm
180-364-18 180 mm
 dull tips,
 straight



180-363-12 120 mm
180-363-15 150 mm
180-363-18 180 mm
 sharp tips,
 curved

180-365-12 120 mm
180-365-15 150 mm
180-365-18 180 mm
 dull tips,
 curved

**Micro Scissors
Mikroscheren
Micro Tijeras
Micro Forbici
Micro-ciseaux**



180-402-15 150 mm
180-402-18 180 mm
straight



180-403-15 150 mm
180-403-18 180 mm
curved



180-405-15 150 mm
180-405-18 180 mm
Micro Dissecting Scissors
curved, blunt point



180-414-15 150 mm
180-414-18 180 mm
straight



180-415-15 150 mm
180-415-18 180 mm
curved



180-416-15 150 mm
180-416-18 180 mm
straight,
delicate blades



180-417-15 150 mm
180-417-18 180 mm
curved,
delicate blades



Micro Scissors Mikroscheren Micro Tijeras Micro Forbici Micro-ciseaux



180-422-18
180 mm
angled to side,
sharp tips



180-423-18
180 mm
angled to side,
blunt tips



180-430-19 190 mm
180-430-23 230 mm
straight



180-431-19 190 mm
180-431-23 230 mm
curved



180-432-19 190 mm
180-432-23 230 mm
straight,
delicate blades



180-433-19 190 mm
180-433-23 230 mm
curved
delicate blades



180-434-19
190 mm
angled to side



180-435-19
190 mm
angled to side,
1 probe-pointed blade



180-436-19
190 mm
Circumflex Scissors



180-437-19
190 mm
Circumflex Scissors
1 probe-pointed blade

Micro Needle Holders & Forceps
Mikro Nadelhalter & Pinzetten
Micro Porta-Agujas y Micro Pinzas
Micro Porta Aghi e Micro Pinze
Micro porte-aiguilles & pincers



180-445-19 190 mm
180-445-23 230 mm
 sharp tips,
 straight



180-446-19 190 mm
180-446-23 230 mm
 blunt tips,
 straight



180-447-19 190 mm
 blunt tips,
 angled



180-452-15 Straight 150 mm
180-452-18 180 mm
 curved
180-453-15 150 mm
180-453-18 180 mm



180-458-15 Straight 150 mm
180-458-18 180 mm
 curved
180-459-15 150 mm
180-459-18 180 mm



180-464-18 straight, with catch 180 mm
180-464-21 210 mm
 straight, without catch
180-466-18 180 mm
180-466-21 210 mm



180-468-18 TC 185 mm
180-468-21 TC 210 mm
 with Tungsten Carbide
 inserts, straight, with catch

Micro Needle Holders

Mikro Nadelhalter

Micro Porta-Agujas

Micro Porta Aghi

Micro porte-aiguilles



180-474-15 150 mm
180-474-18 180 mm



180-475-15 150 mm
180-475-18 180 mm



180-478-15 150 mm
180-478-18 180 mm



180-479-15 150 mm
180-479-18 180 mm



Without catch

With catch



180-482-19 150 mm
180-482-23 180 mm
straight,
smooth jaws



180-483-19 190 mm
180-483-23 230 mm
curved
smooth jaws

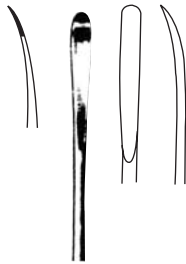


180-483-18 TC 185 mm
180-483-22 TC 220 mm
straight, smooth jaws,
with TC-inserts

Micro Instruments, Straight Shaft
Mikro Instrumente, gerader Stiel
Micro Instrumentos, Rectos
Micro Strumenti, Dritti
Micro-instruments, forme droite



185 mm



180-508-01
2.5 mm
Raspatory,
slightly curved



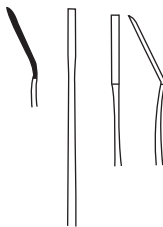
180-508-02
3.0 mm
Raspatory,
strongly curved



180-508-03
2.5 mm
Dissector,
angled



180-508-04
4.0 mm
Raspatory,
angled



180-508-05
1.0 mm
Raspatory,
angled



180-508-06
winkelt
Probe, angled



180-508-07
Double Prong Probe



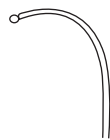
180-508-08
Suture Pusher



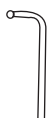
185 mm
Ligature Guede



180-412-01
short curve



180-412-02
long curve



180-412-03
90° angle



185 mm
Nerve and Vessel Hook



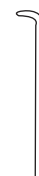
180-412-30
3.0 mm
ball tip



180-412-35
3.5 mm
ball tip



180-412-20
2.0 mm
blunt tip



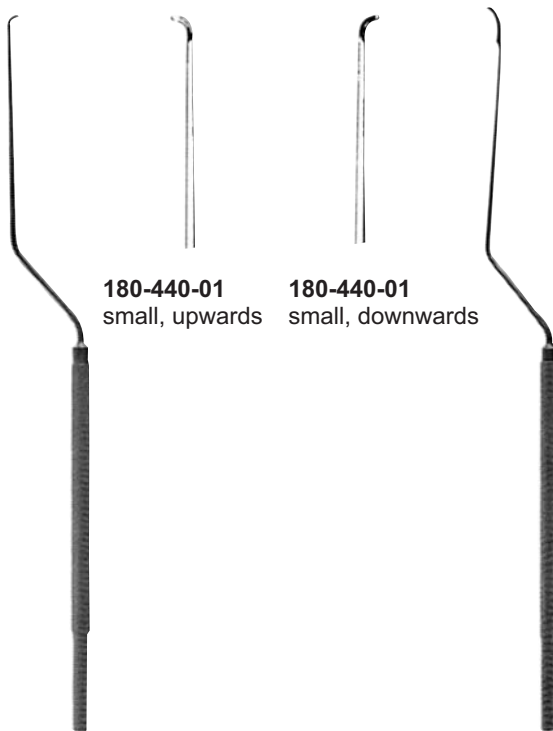
180-412-25
2.5 mm
blunt tip



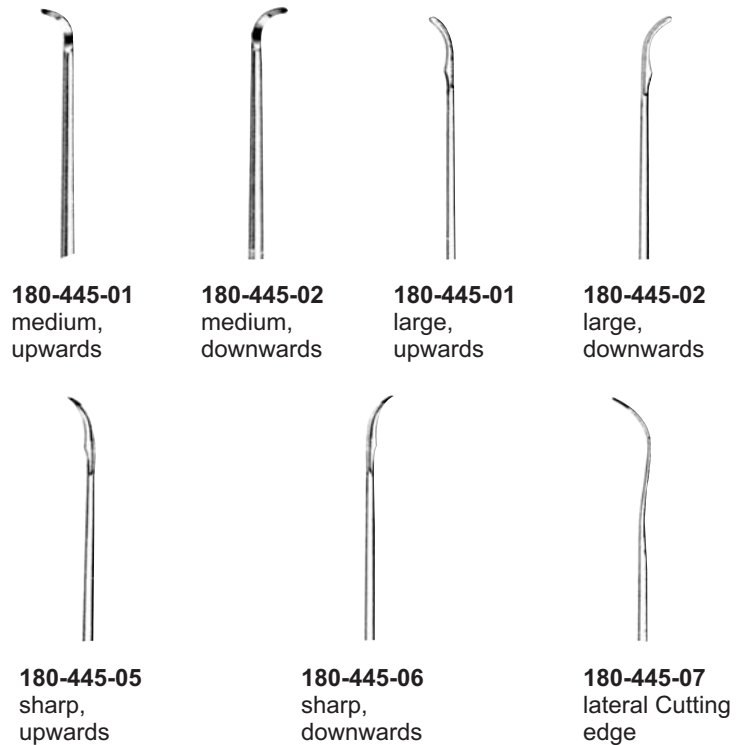
180-419-18

185 mm
Vessel Knife

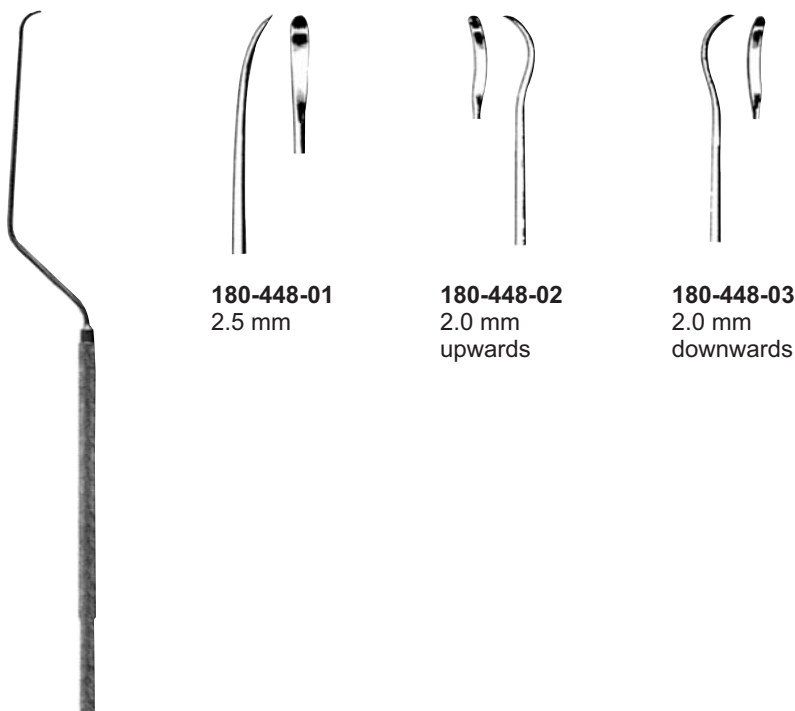
Micro Instruments, Bayonet-Shaped
Mikro Instrumente, bajonettförmig
Micro Instrumentos, en Forma de Bayoneta
Micro Strumenti, a Forma di Baoinetta
Micro-instruments, forme de bayonette



185 mm
Arachnoid Knives



185 mm
Vessel Knives, Bayonet-shaped

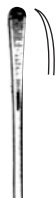


185 mm
Raspatories



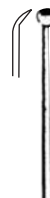
180-452-18 185 mm
Curette, oval cup

Micro Instruments
Mikroinstrumente
Micro Instrumentos
Micro Strumenti
Micro-instruments



180-462-10 185 mm
180-462-15 1.0 mm
180-462-20 1.5 mm
180-462-30 2.0 mm

180-464-10 230 mm
180-464-15 1.0 mm
180-464-20 1.5 mm
180-464-30 2.0 mm
 Dissector



180-466-20 185 mm
180-466-30 2.0 mm
180-466-30 3.0 mm

180-468-20 230 mm
180-468-30 2.0 mm
180-468-30 3.0 mm
 Raspatory, round



180-470-15 185 mm, 1.5 mm
180-472-15 230 mm, 1.5 mm
 Curette, straight



180-474-15 185 mm, 1.5 mm
180-476-15 230 mm, 1.5 mm
 Curette, angled



180-477-15 185 mm, 1.5 mm, 90°
180-479-15 230 mm, 1.5 mm, 90°
 Hook, sharp



180-481-15 185 mm, 1.5 mm, 90°
180-483-15 230 mm, 1.5 mm, 90°
 Hook, blunt

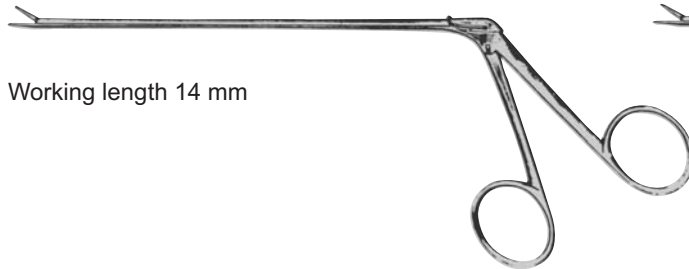


180-485-10 185 mm
180-487-15 1.0 mm
180-487-15 1.5 mm
 Tissue Lifter

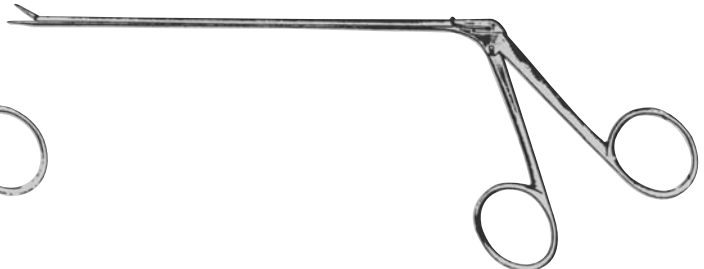
Micro Grasping Forceps
Mikro Faszangen
Micro Pinzas
Micro Pinze per Afferrare
Micro-pince à séquestre



Working length 14 mm



180-506-14
 Micro Grasping Forceps,
 serrated, straight



180-526-14
 Micro Alligator Scissors,
 straight



180-542-01
 Ø 1.0 mm
 Straight



180-542-02
 Ø 2.0 mm
 Straight



180-542-03
 Ø 3.0 mm
 Straight



Micro Cup Forceps



180-542-04
 Ø 1.0 mm
 angled up

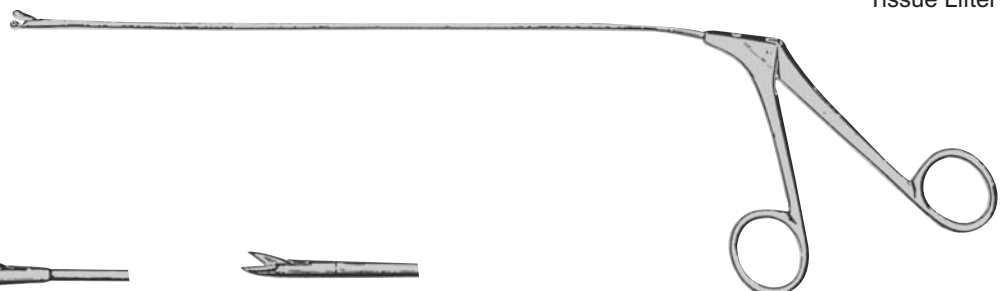


180-542-05
 Ø 2.0 mm
 curved to right



180-542-06
 Ø 3.0 mm
 curved to left

180-485-15 185 mm
 1.0 mm
180-487-15 1.5 mm
 Tissue Lifter



Micro Alligator Forceps
 with tubular shaft 180 mm



180-556-01
 Grasping Forceps



180-556-02
 Cup Forceps, Ø2 mm



180-556-02
 Alligator Scissors

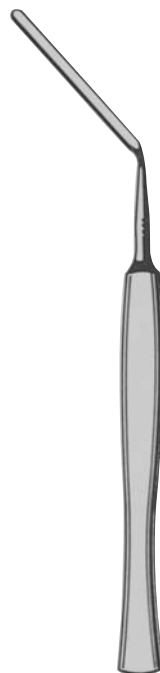
Dura Separators & Dissectors
Dura Trenner & Dissektoren
Disectores y Separadores de la Duramadre
Dissettori e Separatori per la Dura-Madre
Répartiteurs et Décorticateurs Dura



160-204-15
Frazier
150 mm



160-206-45
Hoen
150 mm
90°



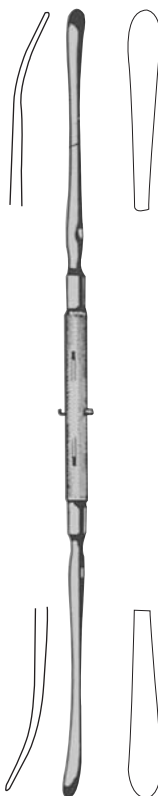
160-210-20
Horsley
200 mm



160-212-18
Woodson
180 mm



160-230-17
woodson
175 mm
separator and packer



160-219-04
Davis
4 mm, 245 mm



160-218-01
narrow

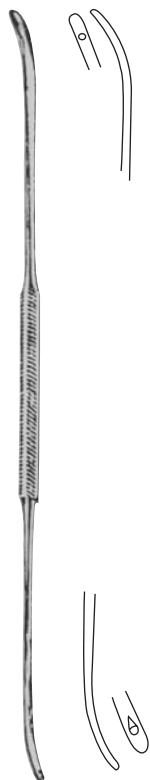


160-218-02
wide

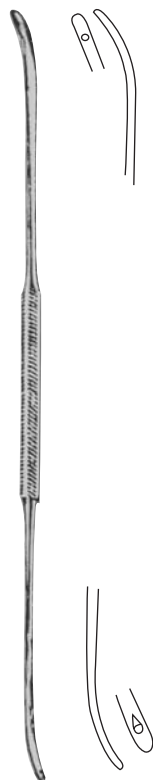


Toennis
240 mm

**Dissectors
Dissektoren
Disectores
Dissettori
Décorticateurs**



160-222-18
160-222-24
Olivecrone
180 mm
240 mm
delicate pattern



160-223-18
160-223-24
Olivecrone
180 mm
240 mm
heavy pattern



160-232-01
Penfield
180 mm
No. 1



160-233-02
Penfield
200 mm
No. 2



160-234-03
Penfield
200 mm
No. 4



160-235-04
Penfield
200 mm
No. 4

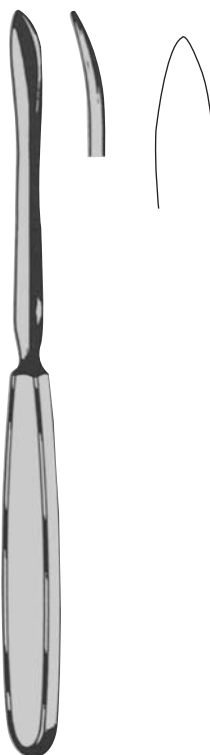


160-236-05
Penfield
290 mm
No. 5

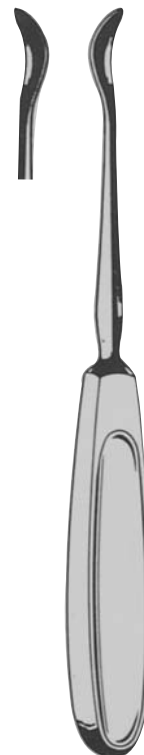
**Periosteal Elevators
Knochenhaut Elevatorien
Elevadores Periósticos
Divaricatori Periostali
Releveurs périostaux**



160-271-07 Hoen
7 mm, 160 mm
160-271-15 15 mm, 190 mm
160-271-20 20 mm, 190 mm
Semisharp



160-272-07 Langenbeck, 200 mm
7 mm
160-272-10 10 mm
Elevator, blunt



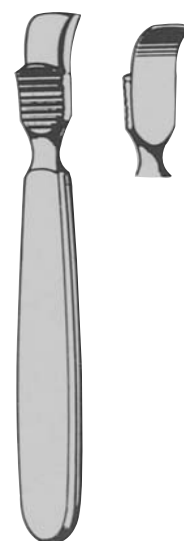
160-273-19 Cushing, 190 mm
left
160-274-19 right



160-275-17
Adson, 170 mm



100-784-14 Farabeuf
13 mm, 140 mm
sharp, straight

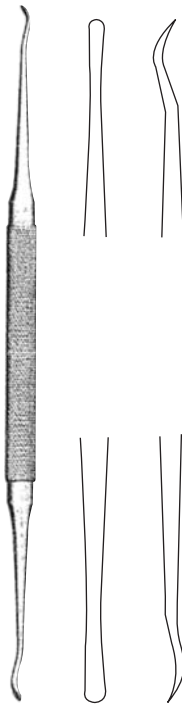


100-785-14 Farabeuf
13 mm, 140 mm
sharp, curved

Elevators Elevatoren Elevadores Divaricatori Releveurs



160-226-03
Sachs Nerve Elevator
185 mm
3 mm blunt



160-227-19
Kleinert Kutz
Elevator and Dissector
195 mm
2 mm x 3 mm Sharp ends



160-228-18
Freer Elevator
185 mm double ended
5 mm sharp end
and 5 mm blunt end

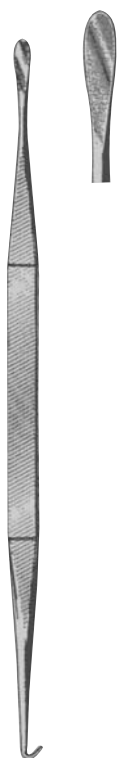


160-229-22
Woodson Elevator And Spatula
225 mm double ended
3 mm semi-blunt ends



160-230-17
Woodson Dural Separator And Packer
175 mm double ended with grooved blade
3 mm blunt end

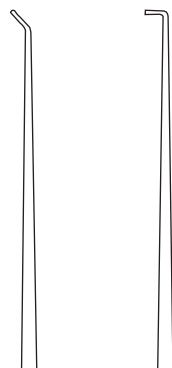
Elevators
Elevatorii
Elevadores
Divaricatori
Releveurs



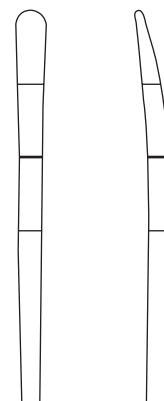
160-239-08
 Smithwick Hook and Dissector
 300 mm double ended
 5 mm semi-sharp end
 and 1 x 10 mm blunt hook



160-242-45 angled 45°
160-242-90 angled 90°



Nerve Probe endoscopic
 380 mm with ball end
 80 mm tip and shaft length
 290 mm handle length
 7.1 mm shaft diameter



160-245-38
 Penfield Elevator endoscopic
 380 mm blunt, 4 mm tip width
 88 mm tip and shaft length, graduated
 290 mm handle length
 7.1 mm shaft diameter

Elevators Elevatorii Elevadores Divaricatori Releveurs



160-248-01
160-248-02
160-248-03



160-248-04



160-248-05



160-248-06
160-248-07
160-248-08



160-248-09



160-248-10



160-248-11



160-248-12



160-248-13
160-248-14



160-248-15



160-248-16
160-248-17



160-248-18
160-248-19

160-248-01	Rhoton Micro Dissection Instruments 190 mm
160-248-02	Round Dissector 1 mm, angled
160-248-03	Round Dissector 2 mm, angled
160-248-04	Round Dissector 3 mm, angled
160-248-05	Elevator, curved
160-248-06	Elevator, angled
160-248-07	Spatula Dissector # 6 small, angled
160-248-08	Spatula Dissector # 7 medium, angled
160-248-09	Spatula Dissector # 8 large, angled
160-248-10	Hook, 90° angle, sharp
160-248-11	Hook, 90° angle, blunt
160-248-12	Hook, 45° angle, sharp
160-248-13	Needle, straight, sharp
160-248-14	Micro Curette, straight, 1 mm x 2 mm
160-248-15	Micro Curette, angled, 1 mm x 2 mm
160-248-16	Ball-tipped Dissector, 0.8 mm
160-248-17	Ball-tipped Dissector, 90° angle, 3 mm
160-248-18	Ball-tipped Dissector, 90° angle, 5 mm
160-248-19	Ball-tipped Dissector, 40° angle, 4 mm
	Ball-tipped Dissector, 40° angle, 8 mm

Periosteal Elevators
Knochenhaut Elevatorien
Elevadores Periósticos
Divaricatori Periostali
Releveurs périostaux



160-267-06 Key, 190 mm
160-267-12 6 mm
160-267-20 12 mm
160-267-25 20 mm
 25 mm
 sharp, slightly curved



160-269-06
 Pennybacker
 6 mm, 170 mm
 sharp, curved



160-270-15
 Langenbeck
 15 mm, 190 mm
 sharp, slightly curved



160-271-01 Cushing
 180 mm, 15 mm
 round edge
160-271-02 Square edge



100-735-06
 6 mm, 185 mm
 sharp, curved



100-730-13
 13 mm, 200 mm
 sharp, curved



100-725-14
 14 mm, 200 mm
 sharp, straight



100-727-14
 14 mm, 200 mm
 sharp, curved

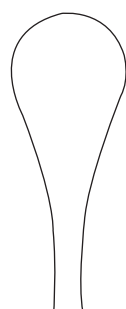
Periosteal Elevators **Knochenhaut Elevatorien** **Elevadores Periósticos** **Divaricatori Periostali** **Releveurs périostaux**



Cobb Spinal Elevator 238 mm sharp with hexagonal handle



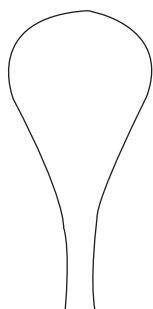
160-280-12
12 mm



160-280-25
25 mm



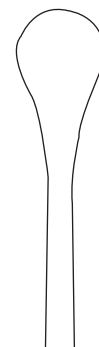
160-280-19
19 mm



160-280-32
32 mm



160-282-19 Harrington Spinal Elevator 300 mm Sharp 19 mm tip width



7 mm



9 mm



11 mm

160-284-07
160-284-09
160-284-11

Cobb modif.
280 mm
7 mm
9 mm
11 mm
Round Handle



4 mm



6 mm

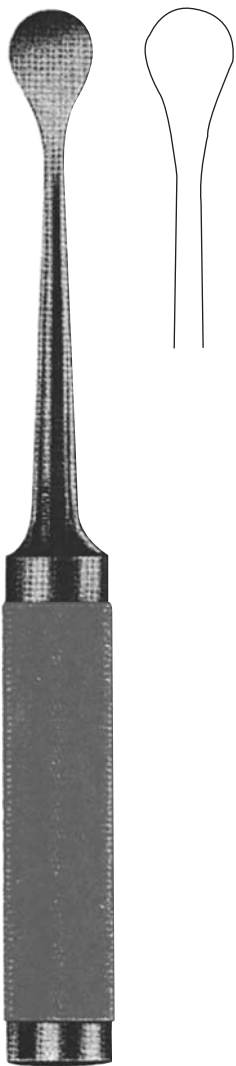


8 mm

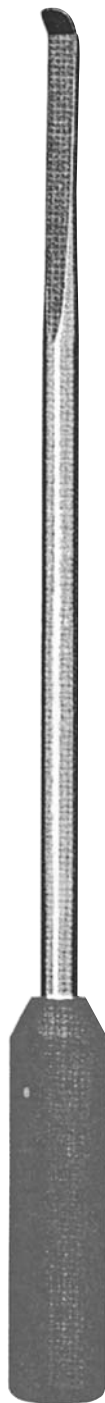
160-285-04
160-285-06
160-285-08

Cobb modif.
280 mm
4 mm
6 mm
8 mm
Round Handle

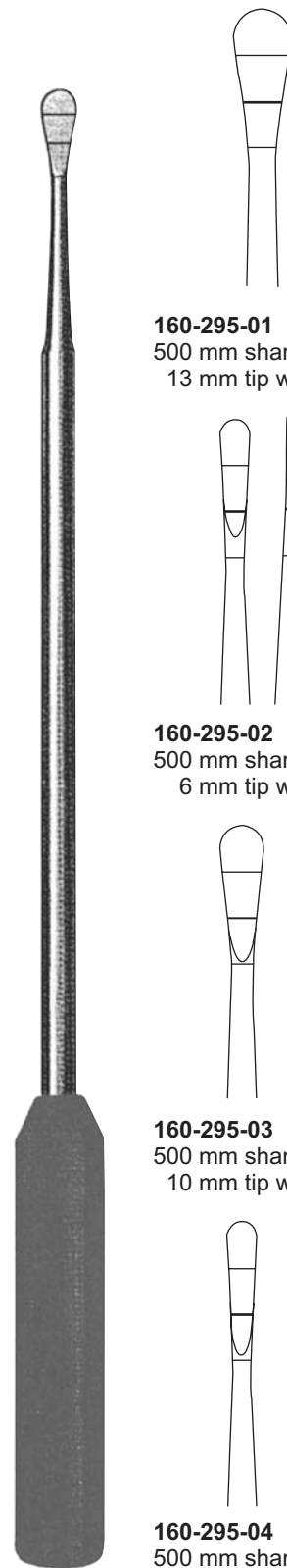
Elevators
Elevatori
Elevadores
Divaricatori
Releveurs



160-288-19
Harrington Spinal Elevator
300 mm Sharp
19 mm tip width



Rib Elevator endoscopic
425 mm Sharp with fiber handle
9 mm radius tip
160-290-45 angled 45°
160-290-90 angled 90°



160-295-01
500 mm sharp
13 mm tip width

160-295-02
500 mm sharp
6 mm tip width

160-295-03
500 mm sharp
10 mm tip width

160-295-04
500 mm sharp
6 mm tip width
Cobb Spinal Elevator endoscopic
with fiber handle graduated tips

Chisels / Osteotomes Meißel / Osteotomien Gubias / Osteotomos Scalpelli / Osteotomi Ciseaux / Ostéotomes



Hibbs Chisel

225 mm straight

160-350-06	6 mm
160-350-09	9 mm
160-350-12	12 mm
160-350-15	15 mm
160-350-18	18 mm
160-350-20	20 mm
160-350-25	25 mm
160-350-30	30 mm
160-350-35	35 mm
160-350-40	40 mm

225 mm curved

160-351-06	6 mm
160-351-09	9 mm
160-351-12	12 mm
160-351-15	15 mm
160-351-18	18 mm
160-351-20	20 mm
160-351-25	25 mm
160-351-30	30 mm
160-351-35	35 mm
160-351-40	40 mm

Osteotomes

225 mm straight

160-360-06	6 mm
160-360-09	9 mm
160-360-12	12 mm
160-360-15	15 mm
160-360-18	18 mm
160-360-20	20 mm
160-360-25	25 mm
160-360-30	30 mm
160-360-35	35 mm
160-360-40	40 mm

225 mm curved

160-361-06	6 mm
160-361-09	9 mm
160-361-12	12 mm
160-361-15	15 mm
160-361-18	18 mm
160-361-20	20 mm
160-361-25	25 mm
160-361-30	30 mm
160-361-35	35 mm
160-361-40	40 mm

Hibbs Chisel / Osteotomes



Cobb Chisel

275 mm straight

160-354-06	6 mm
160-354-09	9 mm
160-354-12	12 mm
160-354-15	15 mm
160-354-18	18 mm
160-354-25	25 mm
160-354-35	35 mm

275 mm curved

160-355-06	6 mm
160-355-09	9 mm
160-355-12	12 mm
160-355-15	15 mm
160-355-18	18 mm
160-355-25	25 mm
160-355-35	35 mm

Osteotomes

275 mm straight

160-364-06	6 mm
160-364-09	9 mm
160-364-12	12 mm
160-364-15	15 mm
160-364-18	18 mm
160-364-25	25 mm
160-364-35	35 mm

275 mm curved

160-365-06	6 mm
160-365-09	9 mm
160-365-12	12 mm
160-365-15	15 mm
160-365-18	18 mm
160-365-25	25 mm
160-365-35	35 mm

Cobb Chisel / Osteotomes



160-357-10

Hibbs Chisel endoscopic
460 mm
10 mm tip width straight

160-367-10

Hibbs Osteotomes endoscopic
460 mm
10 mm tip width straight

Spinal Gouges
Rückgratmeißel
Cinceles para Columna Vertebral
Sgorbie per Colonna Vertebrale
Gouges spinales



Cobb
240 mm



Cobb
240 mm



160-375-01
Straight



160-375-03



160-375-05
Straight



160-375-07
Strongly Curved



160-375-02
Slightly Curved



160-375-04
Curved down



160-375-06
Slightly Curved



160-375-08
Curved down



160-377-07
Hibbs Gougs endoscopic 460 mm
7 mm tip width straight, graduated

Osteotomes, Gouges
Osteotomien / Meißel
Osteotomos / Cinceles
Osteotomi / Sgorbie
Ostéotomes / Gouges



Lexer		Lexer modif.	
220 mm	Osteotome	290 mm	Osteotome
100-656-07	7 mm	100-658-07	7 mm
100-656-10	10 mm	100-658-10	10 mm
100-656-12	12 mm	100-658-12	12 mm
100-656-15	15 mm	100-658-15	15 mm
100-656-20	20 mm	100-658-20	20 mm
100-656-25	25 mm	100-658-25	25 mm
100-656-30	30 mm	100-658-30	30 mm



Lexer		Lexer modif.	
220 mm	Gouge	290 mm	Gouge
100-657-07	7 mm	100-659-07	7 mm
100-657-10	10 mm	100-659-10	10 mm
100-657-12	12 mm	100-659-12	12 mm
100-657-15	15 mm	100-659-15	15 mm
100-657-20	20 mm	100-659-20	20 mm
100-657-25	25 mm	100-659-25	25 mm
100-657-30	30 mm	100-659-30	30 mm



	Lexer
100-684-07	250 mm straight 7 mm
100-684-10	10 mm
100-684-15	15 mm



	Lexer
100-685-07	250 mm curved 7 mm
100-685-10	10 mm
100-685-15	15 mm

Osteotomes, Gouges
Osteotomien / Meißel
Osteotomos / Cinceles
Osteotomi / Sgorbie
Ostéotomes / Gouges



Smith-Peterson, 200 mm
 Osteotome, Straight

100-632-06	6 mm
100-632-09	9 mm
100-632-12	12 mm
100-632-15	15 mm
100-632-20	20 mm
100-632-25	25 mm
100-632-30	30 mm



Smith-Peterson, 200 mm
 Osteotome, curved

100-633-06	6 mm
100-633-09	9 mm
100-633-12	12 mm
100-633-15	15 mm
100-633-20	20 mm
100-633-25	25 mm
100-633-30	30 mm



Smith-Peterson, 200 mm
 Gouge, Straight

100-672-06	6 mm
100-672-09	9 mm
100-672-12	12 mm
100-672-15	15 mm
100-672-20	20 mm
100-672-25	25 mm
100-672-30	30 mm



Smith-Peterson, 200 mm
 Gouge, curved

100-673-06	6 mm
100-673-09	9 mm
100-673-12	12 mm
100-673-15	15 mm
100-673-20	20 mm
100-673-25	25 mm
100-673-30	30 mm



Lambotte, 240 mm
 Osteotome, Straight

100-642-06	6 mm
100-642-09	9 mm
100-642-12	12 mm
100-642-15	15 mm
100-642-20	20 mm
100-642-25	25 mm
100-642-30	30 mm

Bone Curettes, Spinal Fusion Curettes
Knochenkürette, Rückgrat Fusion Kürette
Cucharillas Cortantes, Cucharillas de Fusión Espinal
Curette Taglienti, Curette di Fusione Spinale
Curettes pour os, curettes pour fusion spinale



100-825-40
100-825-30
100-825-20
100-825-10
100-825-01
100-825-02
100-825-03
100-825-04
100-825-05
100-825-06

Bruns, 270 mm
 straight
 Fig. 0000
 Fig. 000
 Fig. 00
 Fig. 0
 Fig. 1
 Fig. 2
 Fig. 3
 Fig. 4
 Fig. 5
 Fig. 6



100-826-40
100-826-30
100-826-20
100-826-10
100-826-01
100-826-02
100-826-03
100-826-04
100-826-05
100-826-06

Bruns, 270 mm
 angled
 Fig. 0000
 Fig. 000
 Fig. 00
 Fig. 0
 Fig. 1
 Fig. 2
 Fig. 3
 Fig. 4
 Fig. 5
 Fig. 6



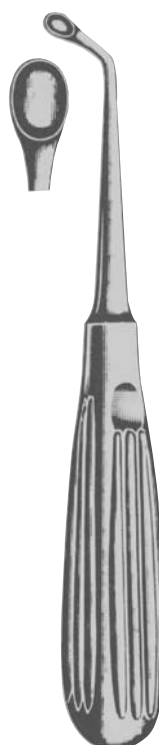
100-830-00
 4 mm x 10 mm
 straight



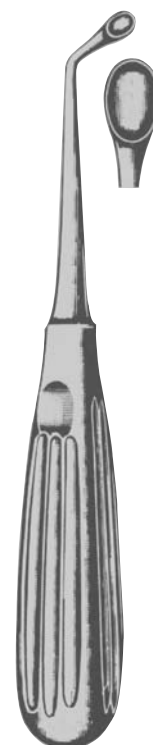
100-830-04
 4 mm x 10 mm
 up angle



100-830-03
 4 mm x 10 mm
 down angle



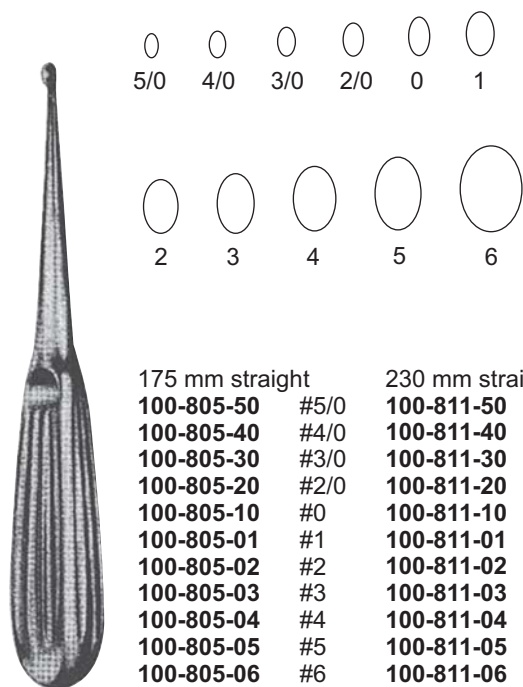
100-840-07
 Uffenorde left 175 mm



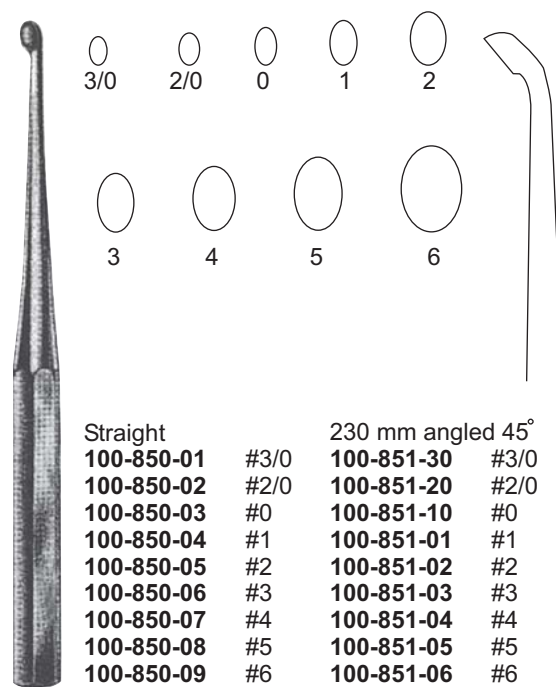
100-840-08
 Uffenorde right 175 mm

Scoville, 250 mm
 Ruptured Disc Curette

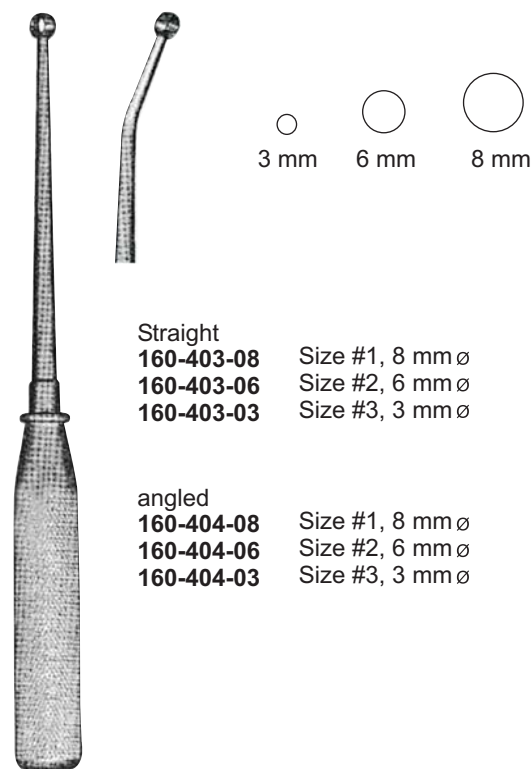
Curette Kürette Cucharillas Curette Curette



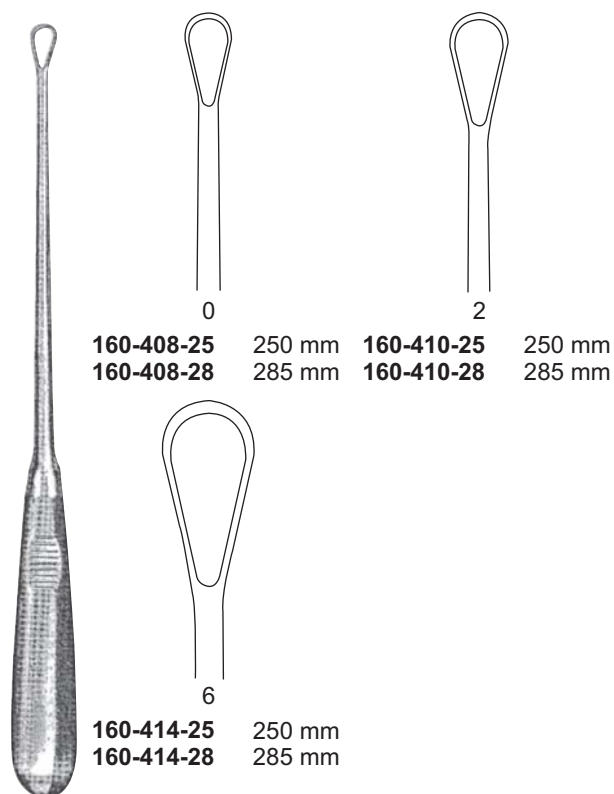
Brun (Spinal Fusion) Curette
with hollow handle, oval cup



Brun (Spinal Fusion) Curette 230 mm
with solid hexagonal handle



Cone Ring Curette 230 mm
with knurled handle, fenestrated cup



Ring Curette hollow handle,
with fenestrated cup

Pituitary Spoons, Curettes Pituitäre Löffel, Kürette Cucharillas para Hipófisis Curette, Cucchiari per Ipofisi Cuillères & curettes hypophysaires



Cushing, 235 mm
Pituitary Spoon,
malleable, silver-plated



100-854-05
5 mm



100-854-07
7 mm



100-854-09
9 mm



100-854-10
10 mm



100-854-10
12 mm



Simon 240 mm



Fig.1
100-845-01



Fig.4
100-845-04



Fig.2
100-845-02



Fig.5
100-845-05



Fig.3
100-845-03



Fig.6
100-845-06



Ray, 190 mm
Pituitary Curette



100-857-03 45°
100-857-04 Ø 3 mm
100-857-05 Ø 4 mm
Ø 5 mm



100-858-03 90°
100-858-04 Ø 3 mm
100-858-05 Ø 4 mm
Ø 5 mm



100-859-03 45° offset
100-859-04 Ø 3 mm
100-859-05 Ø 4 mm
Ø 5 mm



100-860-03 90° offset
100-860-04 Ø 3 mm
100-860-05 Ø 4 mm
Ø 5 mm



Tay-Bronson, 220 mm
Pituitary Curette,
double-edged



100-063-04 Ø 4 mm
straight

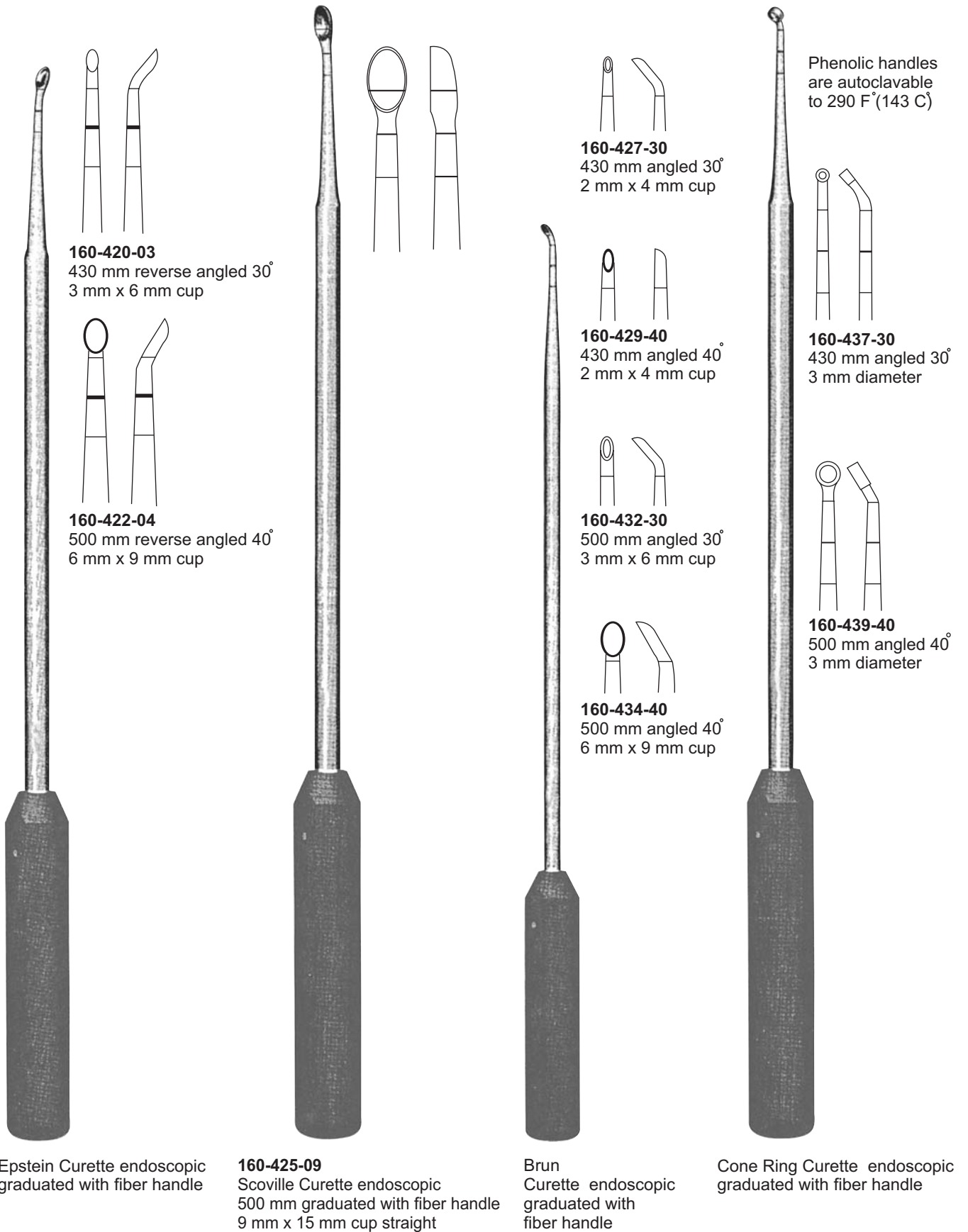


100-064-03 30°
100-064-04 Ø 3 mm
100-064-05 Ø 4 mm
Ø 5 mm



100-065-03 45°
100-065-04 Ø 3 mm
100-065-05 Ø 4 mm
Ø 5 mm

Curette Kürette Cucharillas Curette Curette



Intervertebral Disc Rongeur

Intervertebral disc Knochenzange

Gubias para Disco Intervertebral

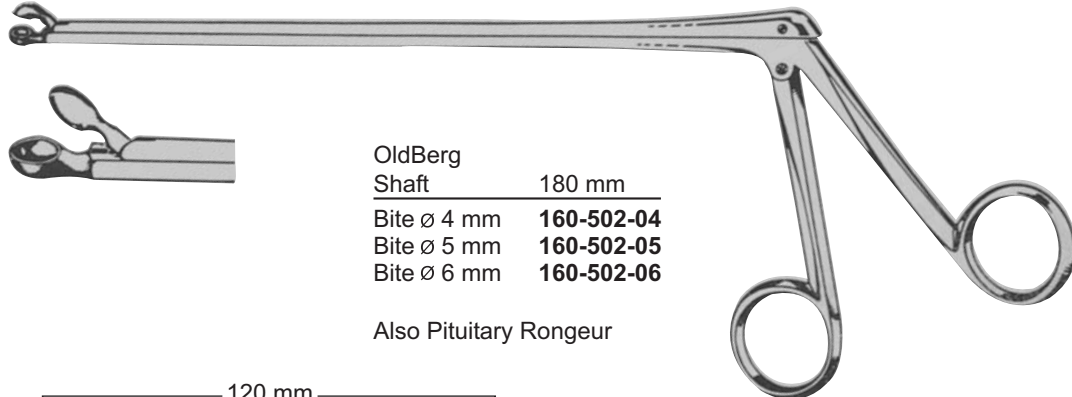
Sgorbie per Disco Intervertebrale

Rongeur pour disques intervertébraux

4 mm

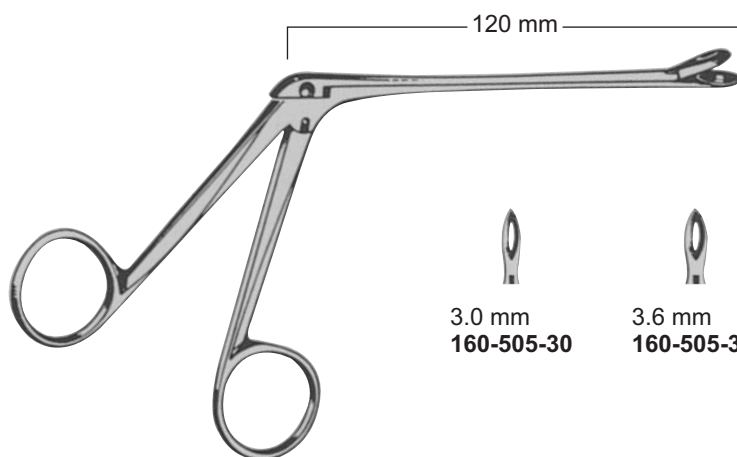
5 mm

6 mm



OldBerg	
Shaft	180 mm
Bite ø 4 mm	160-502-04
Bite ø 5 mm	160-502-05
Bite ø 6 mm	160-502-06

Also Pituitary Rongeur



120 mm

3.0 mm
160-505-30

3.6 mm
160-505-36

4.2 mm
160-505-42

4.8 mm
160-505-48

5.8 mm
160-505-58

Weil - Blakesley

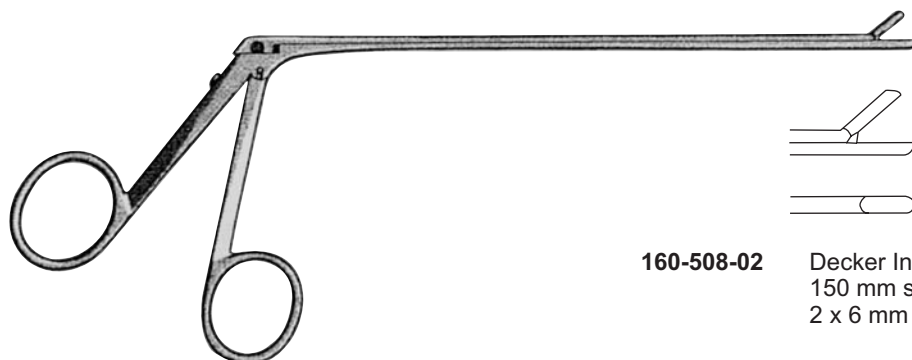
160-506-04
small
4 x 9 mm bite

160-506-05
Medium
5 x 10 mm bite

160-506-06
large
6 x 11 mm bite



Wilde Intervertebral Disc Rongeur
125 mm shaft
fenestrated jaws straight



160-508-02 Decker Intervertebral Disc Rongeur
150 mm shaft
2 x 6 mm bite straight

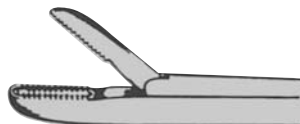
Intervertebral Rongeur Forceps

Intervertebral Knochenzange Pinzette

Pinzas Gubias Intervertebrales

Pinze Sgorbie Intervertebrali

Pinces rongeuses intervertébrales



Straight

Shaft	130 mm	180 mm
Bite 2 x 10 mm	160-511-02	160-512-02
Bite 3 x 10 mm	160-511-03	160-512-03
Bite 4 x 10 mm	160-511-04	160-512-04



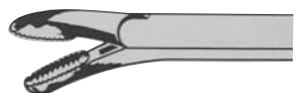
Schlesinger



160-515-01 Straight



160-515-02 Angled-up



160-515-03 Angled-down



Shaft 150 mm
Bite 6 x 10 mm



Cloward-type
Serrated cup jaws

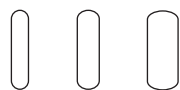
Intervertebral Disc Rongeur

Intervertebral disc Knochenzange

Gubias para Disco Intervertebral

Sgorbie per Disco Intervertebrale

Rongeur pour disques intervertébraux



2x10 3x10 4x10



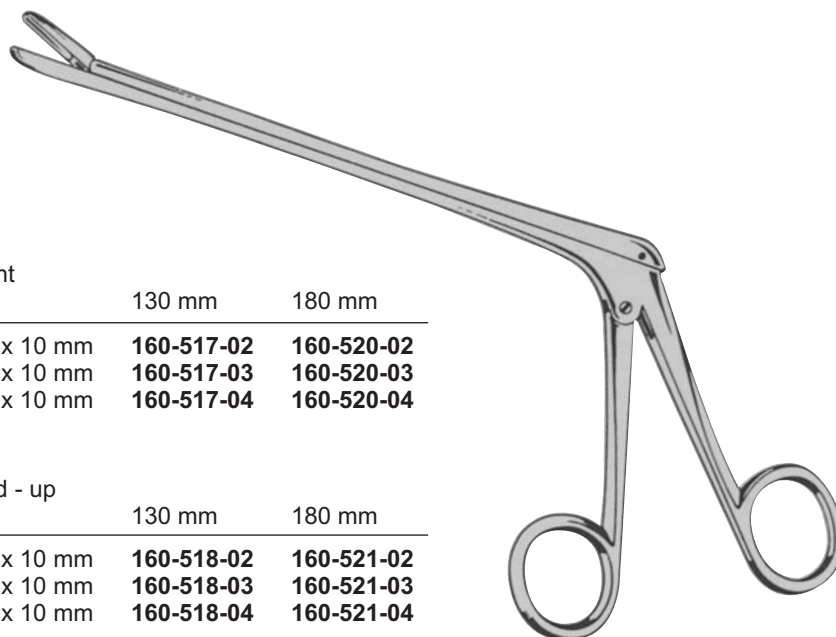
Straight Shaft	130 mm	180 mm
Bite 2 x 10 mm	160-517-02	160-520-02
Bite 3 x 10 mm	160-517-03	160-520-03
Bite 4 x 10 mm	160-517-04	160-520-04



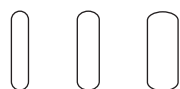
Angled - up Shaft	130 mm	180 mm
Bite 2 x 10 mm	160-518-02	160-521-02
Bite 3 x 10 mm	160-518-03	160-521-03
Bite 4 x 10 mm	160-518-04	160-521-04



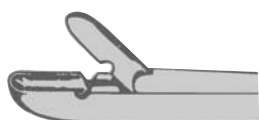
Angled - down Shaft	130 mm	180 mm
Bite 2 x 10 mm	160-519-02	160-522-02
Bite 3 x 10 mm	160-519-03	160-522-03
Bite 4 x 10 mm	160-519-04	160-522-04



Cushing
Love - Gruenwald
Spurling



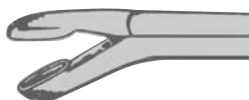
2x10 3x10 4x10



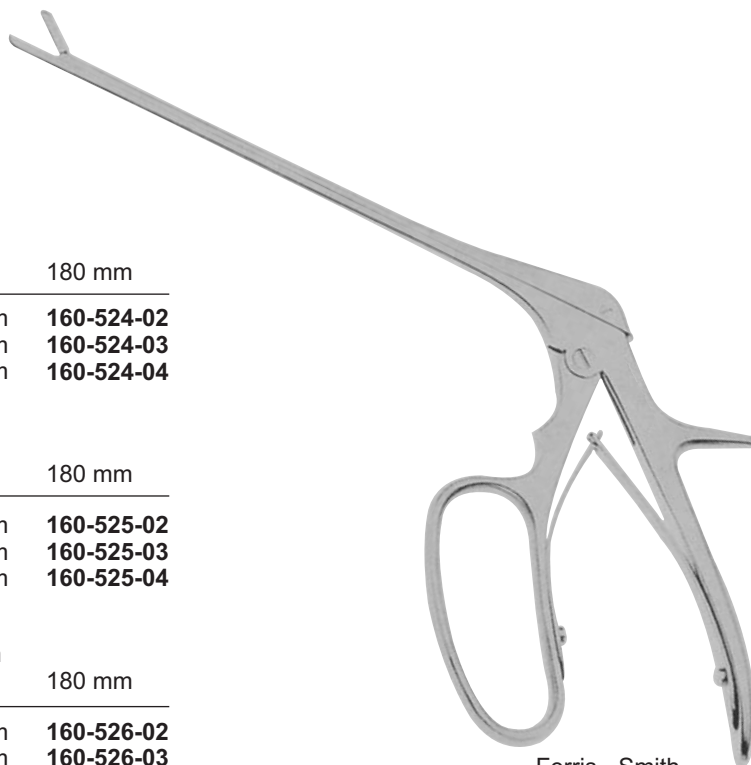
Straight Shaft	180 mm
Bite 2 x 10 mm	160-524-02
Bite 3 x 10 mm	160-524-03
Bite 4 x 10 mm	160-524-04



Angled - up Shaft	180 mm
Bite 2 x 10 mm	160-525-02
Bite 3 x 10 mm	160-525-03
Bite 4 x 10 mm	160-525-04



Angled - down Shaft	180 mm
Bite 2 x 10 mm	160-526-02
Bite 3 x 10 mm	160-526-03
Bite 4 x 10 mm	160-526-04



Ferris - Smith

Laminectomy Rongeur

Laminektomie Knochenzange

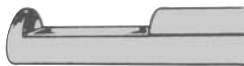
Gubias para Laminectomía

Sgorbie per Laminectomia

Rongeur pour laminectomie



Thin Footplate Kerrison Punch



Forward 90° Thin footplate

□	1 mm bite forward	
	160-531-01	150 mm
	160-532-01	180 mm
	160-533-01	200 mm
□	2 mm bite forward	
	160-531-02	150 mm
	160-532-02	180 mm
	160-533-02	200 mm
□	3 mm bite forward	
	160-531-03	150 mm
	160-532-03	180 mm
	160-533-03	200 mm
□	4 mm bite forward	
	160-531-04	150 mm
	160-532-04	180 mm
	160-533-04	200 mm
□	5 mm bite forward	
	160-531-05	150 mm
	160-532-05	180 mm
	160-533-05	200 mm



Up 40° Thin footplate

□	1 mm bite up	
	160-535-01	180 mm
□	2 mm bite up	
	160-535-02	180 mm
□	3 mm bite up	
	160-535-03	180 mm
□	4 mm bite up	
	160-535-04	180 mm
□	5 mm bite up	
	160-535-05	180 mm



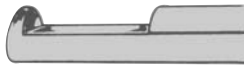
Down 90° Thin footplate

□	1 mm bite down	
	160-538-01	180 mm
□	2 mm bite down	
	160-538-02	180 mm
□	3 mm bite down	
	160-538-03	180 mm
□	4 mm bite down	
	160-538-04	180 mm
□	5 mm bite down	
	160-538-05	180 mm

Laminectomy Rongeur
Laminektomie Knochenzange
Gubias para Laminectomía
Sgorbie per Laminectomia
Rongeur pour laminectomie



Love-kerrison Laminectomy Punch



Forward 90° Regular Footplate

□	2 mm bite forward	
	160-541-02	150 mm
	160-543-02	200 mm
□	3 mm bite forward	
	160-541-03	150 mm
	160-543-03	200 mm
□	4 mm bite forward	
	160-541-04	150 mm
	160-543-04	200 mm
□	5 mm bite forward	
	160-541-05	150 mm
	160-543-05	200 mm
□	6 mm bite forward	
	160-541-06	150 mm
	160-543-06	200 mm



Up 40° Regular footplate

□	2 mm bite up	
	160-544-02	150 mm
	160-546-02	200 mm
□	3 mm bite up	
	160-544-03	150 mm
	160-546-03	200 mm
□	4 mm bite up	
	160-544-04	150 mm
	160-546-04	200 mm
□	5 mm bite up	
	160-544-05	150 mm
	160-546-05	200 mm
□	6 mm bite up	
	160-546-06	200 mm



Down 90° Regular footplate

□	3 mm bite down	
	160-547-03	150 mm
	160-549-03	200 mm
□	4 mm bite down	
	160-547-04	150 mm
	160-549-04	200 mm
□	5 mm bite down	
	160-547-05	150 mm
	160-549-05	200 mm

Laminectomy Rongeur Laminektomie Knochenzange Gubias para Laminectomía Sgorbie per Laminectomia Rongeur pour laminectomie

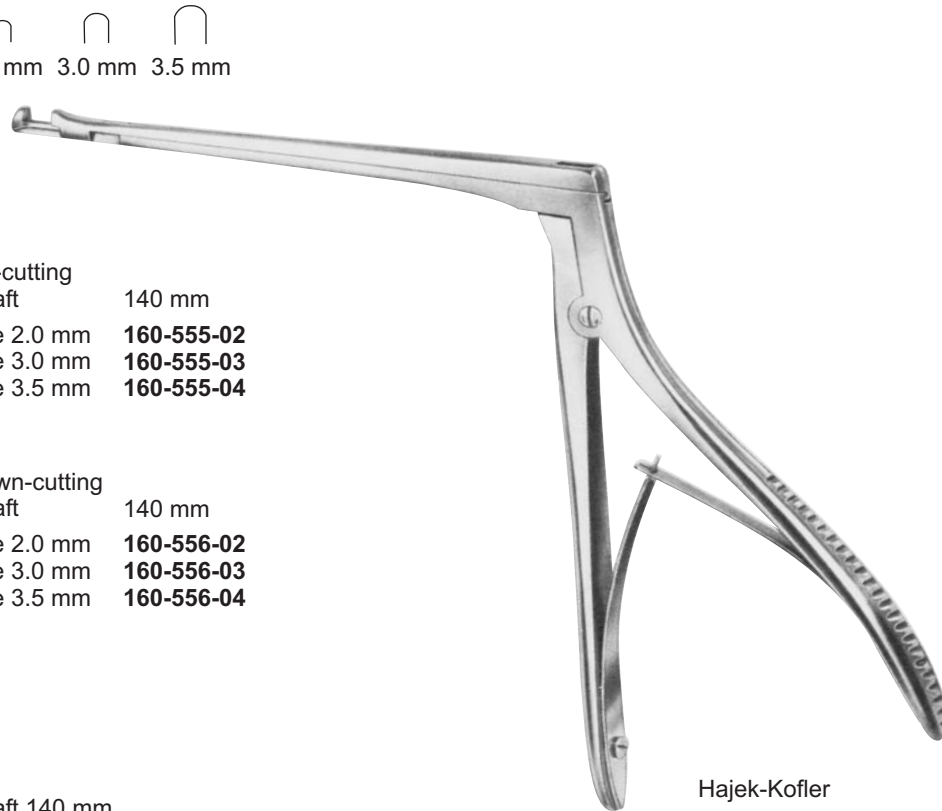
2.0 mm 3.0 mm 3.5 mm



90°
Up-cutting
Shaft 140 mm
Bite 2.0 mm **160-555-02**
Bite 3.0 mm **160-555-03**
Bite 3.5 mm **160-555-04**

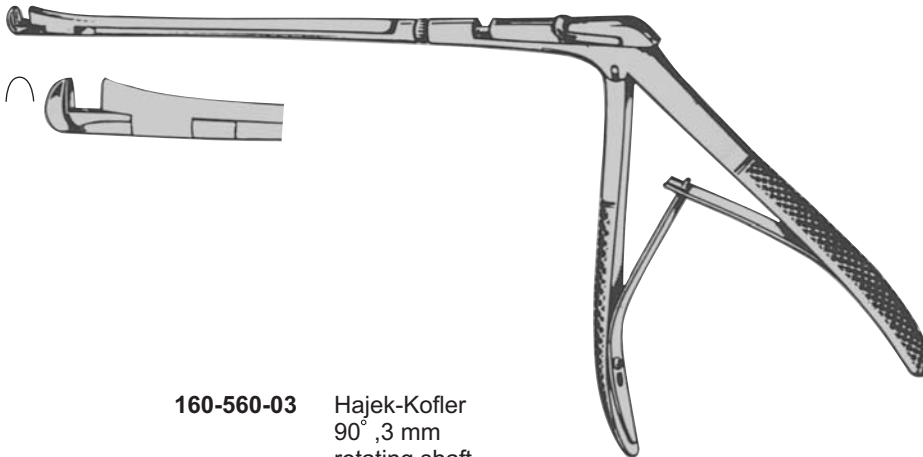


90°
Down-cutting
Shaft 140 mm
Bite 2.0 mm **160-556-02**
Bite 3.0 mm **160-556-03**
Bite 3.5 mm **160-556-04**



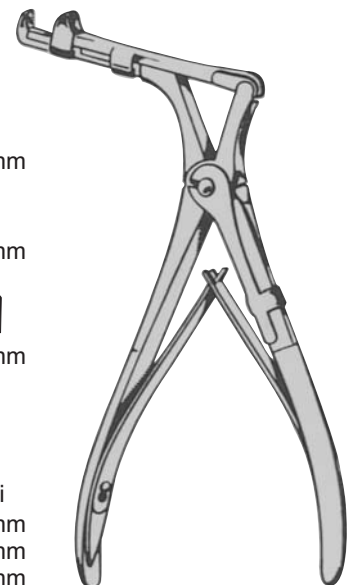
Hajek-Kofler

Shaft 140 mm



160-560-03 Hajek-Kofler
90°, 3 mm
rotating shaft

1.0 mm
2.5 mm
4.0 mm



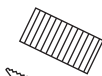
Citelli
160-562-01 1.0 mm
160-562-02 2.5 mm
160-562-03 4.0 mm

Impactors / Tamps
Impaktor / Stopfer
Impactores / Rellenos
Impattatori / Riempitivi
Impacteurs / Tasseurs



01

160-603-01
6 mm x 12 mm



02

160-603-02
7 mm x 16 mm



03

160-603-03
6 mm x 13 mm



04

160-603-04
4 mm x 10 mm



05

160-603-05
4 mm x 10 mm



06

160-603-06
10 mm x 13 mm



07

160-603-07
7 mm x 13 mm



08

160-603-08
10 mm x 13 mm



09

160-603-09
7 mm x 13 mm



160-603-01
160-603-02
160-603-03
160-603-04
160-603-05
160-603-06
160-603-07
160-603-08
160-603-09

Lumbar and Cervical Impactors and Drivers serrated tips
 Impactor, standard offset, 215 mm
 Impactor, central canal, 215 mm
 Impactor, lateral narrow, 215 mm
 Impactor, micro offset, 180 mm
 Impactor, micro lateral, 180 mm
 Graft Driver, lumbar, guarded, 215 mm
 Graft Driver, anterior, guarded, 215 mm
 Graft Driver, lumbar, unguarded, 215 mm
 Graft Driver, anterior, unguarded, 215 mm

160-607-10

Bone Tamp endoscopic
 430 mm with stainless steel handle
 10 mm diameter

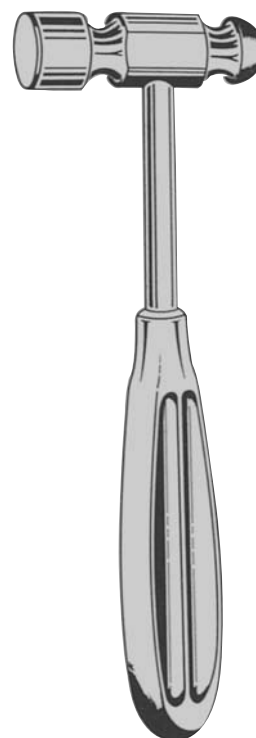
**Mallets
Schlägel
Martillos
Martelli
Maillets**



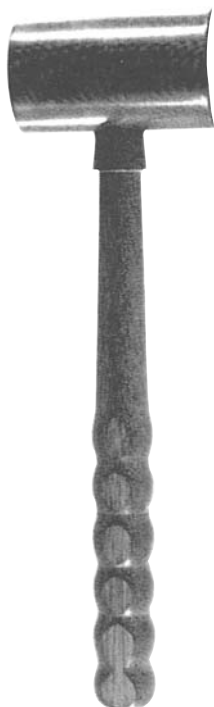
100-605-28
Ø 28 mm, 230 mm



100-616-24
Ø 30 mm + 42 mm
240 mm



100-615-19 Ø 19 mm, 190 mm
100-615-25 Ø 25 mm, 230 mm
Cervical Mallet



100-609-25
42 mm, 250 mm
Material Ferozell can be sterilized
in an autoclave at 3 bar overpressure
(143° C)



100-610-60
Ø 60 mm, 240 mm
Fiber material



100-612-21 30 mm / 215 g
with interchangeable
Plastic disks 250 mm
100-613-02 Pair of spare disks

Double-Action Bone Cutting Rongeurs
doppelbewegliche knochenfräsende Knochenzange
Gubias a Articulación Doble
Sgorbie a Doppia Articolazione
Rongeurs pour découpe d'os double-action



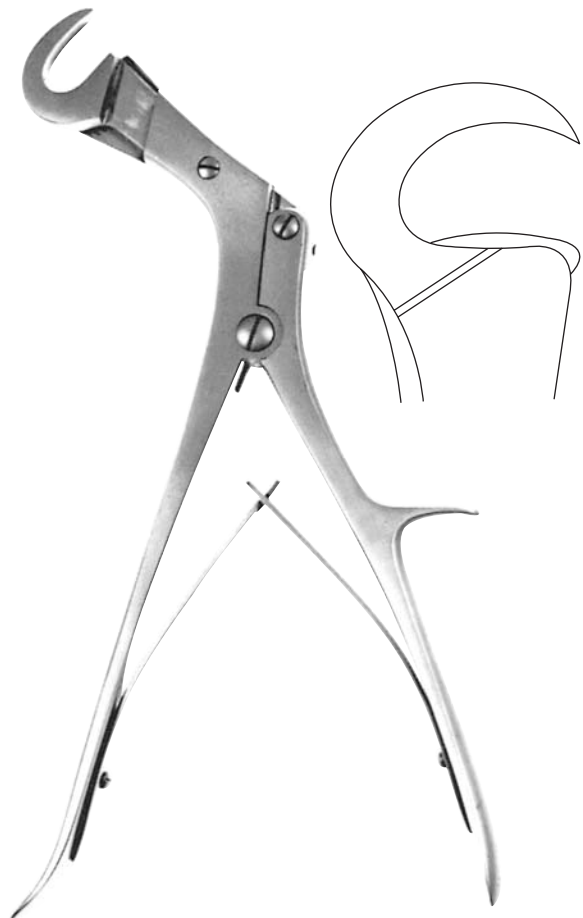
102-025-19 Ruskin-Liston 190 mm straight
102-026-19 Ruskin-Liston 190 mm curved



102-037-27 Stille-Liston 270 mm straight
102-038-27 Stille-Liston 270 mm curved



102-030-27 Stille Horsley 270 mm

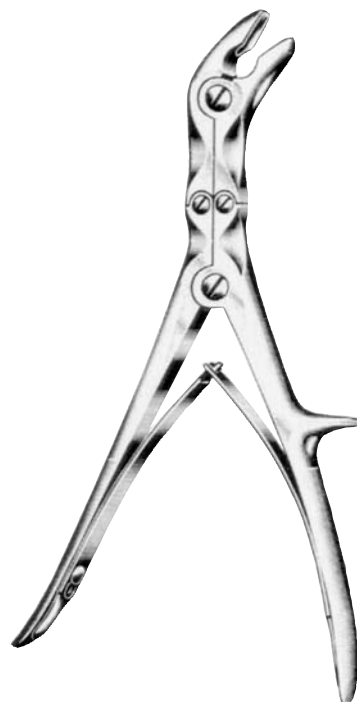


102-045-28 Giertz-Semb 280 mm

Bone Nibblers
Knochennibbler
Pinzas-Gubias
Pinze Ossivore
Cisailles pour os



102-243-23 Stille Luer 230 mm straight
102-244-23 Stille Luer 230 mm curved



102-273-23 Stille, Angular, 230 mm



102-287-03 Leksell 220 mm 3 mm
102-287-04 5 mm
102-287-08 8 mm

Bone Nibblers
Knochennibbler
Pinzas-Gubias
Pinze Ossivore
Cisailles pour os



- 102-250-01** Leksell- Stille 240 mm 3 x 16 mm cup curved
102-250-04 Leksell- Stille 240 mm 3 x 16 mm cup fully curved
102-250-07 Leksell- Stille 240 mm 5 x 16 mm cup curved
102-250-12 Leksell- Stille 240 mm 8 x 16 mm cup curved
102-250-17 Leksell- Stille 240 mm 5 x 16 mm cup fully curved
102-250-23 Leksell- Stille 240 mm 8 x 16 mm cup fully curved



- 102-260-22** Semb 225 mm



- 2 mm
102-280-02



- 3 mm
102-280-03



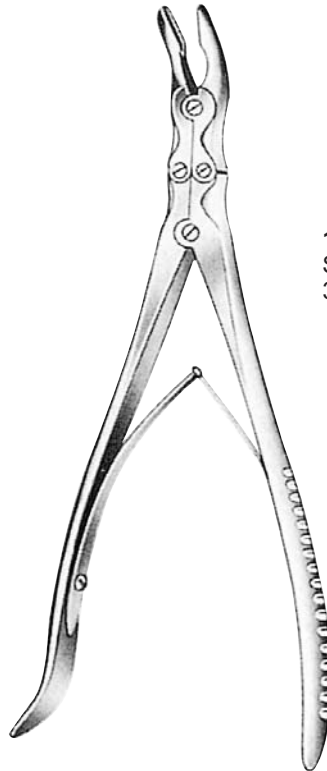
- 4 mm
102-280-04

- 102-280-02** Echlin, 230 mm
102-280-03 2 mm
102-280-04 3 mm
 4 mm

Bone Rongeurs Knochen Knochenzange Gubias Sgorbie Rongeurs pour os



102-292-03
Dale Thoracic Rongeur 360 mm slight curve
3 x 16 mm



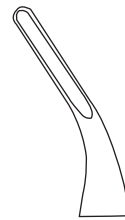
Smith-Peterson Laminectomy Rongeur 235 mm



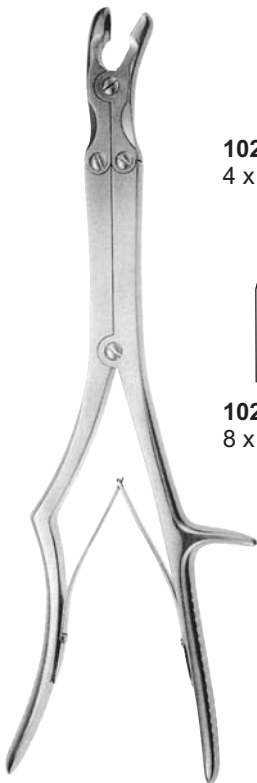
102-295-01
Straight
3 x 16 mm bite



102-295-03
Curved
3 x 16 mm bite



102-295-07
Full curved
3 x 16 mm bite



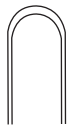
Syoert Rongeur 360 mm slightly angled jaw



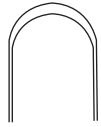
102-298-04
4 x 16 mm bite



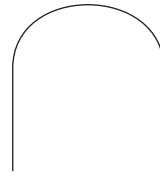
102-298-04
5 x 16 mm bite



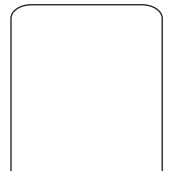
102-298-08
8 x 16 mm bite



102-298-12
12 x 16 mm bite



20 mm
100-265-30



20 mm
100-266-30



102-265-30
102-266-30

Sauerbruch 310 mm
Round
Straight

Retractors

Retraktor

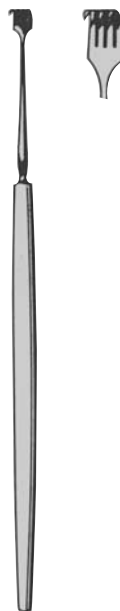
Separadores

Divaricatori

Écarteurs



160-039-14
Bergmann, 140 mm
sharp



160-041-13
Rollet, 130 mm
4 prong, sharp



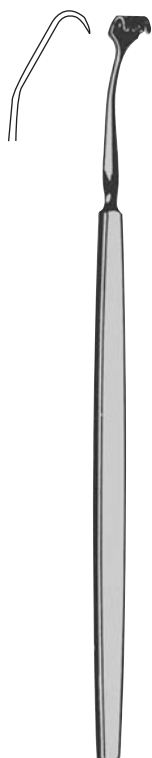
160-142-01
4 prong, sharp



160-142-01
4 prong, blunt



Knapp 160 mm



Knapp modif.
160 mm
angled



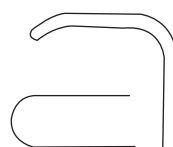
160-142-07
4 prong, sharp



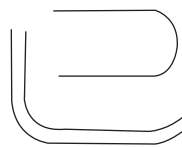
160-142-08
4 prong, blunt



160-144-01
Ragnell, 160 mm



Full Size



Full Size



160-144-03
Ragnell modif.
160 mm
Round Handle

Vein Retractors **Venen Retraktor** **Separadores de Venas** **Divaricatori per Vene** **Écarteurs pour veines**



Meyering, 180 mm



160-154-01
7 mm x 18 mm



160-154-04
5 mm x 16 mm



160-154-02
4 mm x 7 mm



160-154-05
3 mm x 10 mm



160-154-03
4 mm x 7 mm



160-154-06
10 mm x 4 mm
three prongs, sharp



Oldberg
210 mm



160-157-01
19 mm, 210 mm
plain



160-157-03
13 mm, 210 mm
three prong



160-157-02
15 mm, 210 mm
four prong



160-157-04
19 mm, 210 mm
six prong

Retractors Retraktor Separadores Divaricatori Écarteurs



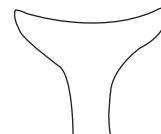
Cushing, 200 mm
160-145-08 8 mm
160-145-10 10 mm
160-145-12 12 mm
160-145-14 14 mm
160-145-16 16 mm
160-145-18 18 mm



Cushing, 200 mm Short Neck
160-146-08 8 mm
160-146-10 10 mm
160-146-12 12 mm
160-146-14 14 mm
160-146-16 16 mm
160-146-18 18 mm



160-147-23
 Cushing, 230 mm
 10 mm x 10 mm



Love (Morse), 230 mm
160-148-10 10 mm x 12 mm
160-148-15 15 mm x 12 mm
160-148-20 20 mm x 12 mm
160-148-30 30 mm x 12 mm



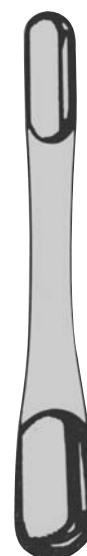
160-149-21
 Sachs
 215 mm



160-150-20
 Cushing, 200 mm
 10 mm x 18 mm
 Decompression
 Retractor



Dacis, 200 mm
160-151-06 6 mm
160-151-12 12 mm
160-151-17 17 mm
160-151-25 25 mm



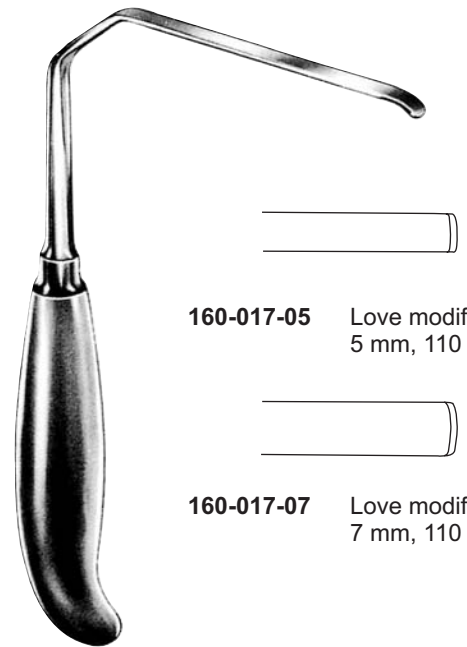
160-152-17
160-152-20
 Cushing
 170 mm
 200 mm
 16 mm x 21 mm

Retractors Retraktor Separadores Divaricatori Écarteurs



160-016-01
160-016-03
160-016-08

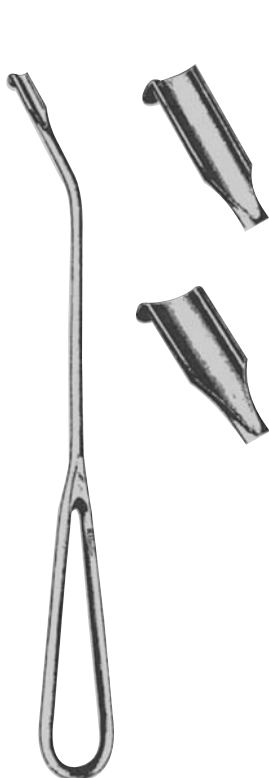
Love Nerve Retractor 210 mm
7 mm width x 5 mm depth
Straight blade
blade angled 45° degrees
blade angled 90° degrees



160-017-05 Love modif.
5 mm, 110 mm

160-017-07 Love modif.
7 mm, 110 mm

160-017-04 Love modif.
4 mm, 100 mm



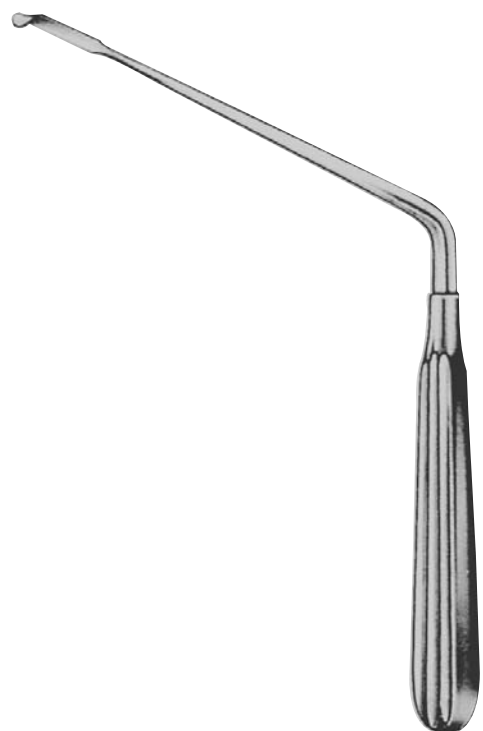
160-019-07
160-019-09

Holsher Nerve Retractor
230 mm angled 7 mm blade
9 mm blade



160-021-22
160-021-23

Nerve Root Retractor
Offset 225 mm
6 mm blade
9 mm blade



160-023-08
160-023-13

Scoville Nerve Root Retractor
230 mm angled
8 mm blade
13 mm blade

Retractors Retraktor Separadores Divaricatori Écarteurs



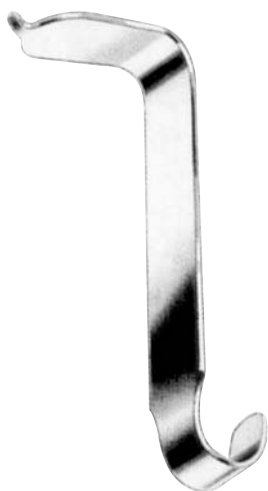
160-027-22
Cushing Vein Retractor 225 mm
with fenestrated handle
Blade 12 mm width x 10 mm



160-030-21
Cushing Decompression Retractor 215 mm
with fenestrated blade and handle
Blade 13 mm width x 22 mm



160-031-01
160-031-02
Scoville 7 mm, 240 mm
straight
carved



160-033-07
160-033-10
Taylor 170 mm
30 x 75 mm
30 x 100 mm



160-035-07
160-035-08
Hibbs
25 x 75 mm, 230 mm
25 x 80 mm, 240 mm



160-038-20
160-038-23
160-038-24
Meyerding
16 X 50 mm, 200 mm
25 X 75 mm, 230 mm
50 X 90 mm, 240 mm

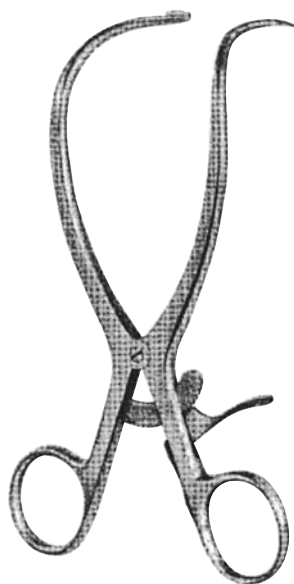
Self-Retaining Retractors

Selbsthaltende Retraktor

Separadores Autoestáticos

Divaricatori Autostatici

Écarteurs autostatiques



160-060-15
Gelpi-Seletz Retractor
155 mm
Sharp, deep Blades



Gelpi Retractor

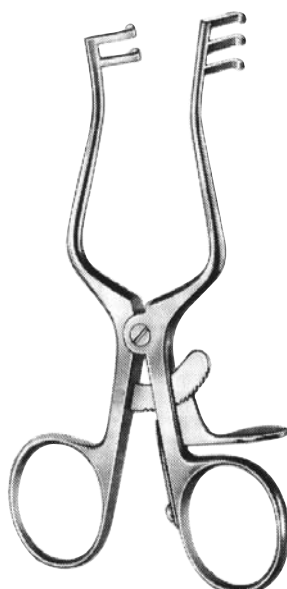
Length	Blunt	Sharp
85 mm	160-062-08	160-063-08
110 mm	160-062-11	160-063-11
135 mm	160-062-13	160-063-13
285 mm	160-062-28	160-063-28



160-070-15 Gelpi Retractor 150 mm
160-070-26 Wiltse Retractor 260 mm
sharp, deep blade

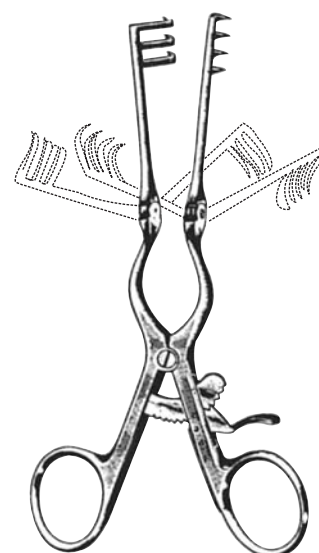


160-065-17
Gelpi Retractor 175 mm
with ball stops
sharp points



Weitlaner

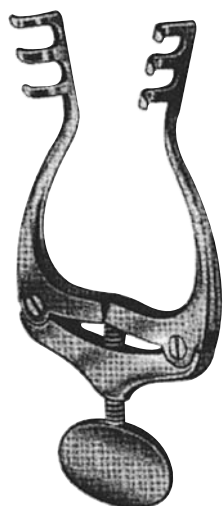
Size	Pronges	Blunt	Sharp
105 mm	2 x 3	100-480-01	100-481-01
130 mm	3 x 4	100-480-04	100-481-04
165 mm	3 x 4	100-480-09	100-481-09
200 mm	3 x 4	100-480-15	100-481-15
250 mm	5 x 6	100-480-18	100-481-18



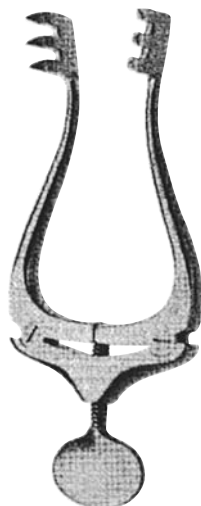
Beckmen-Weitlaner Retractor hinged
blades, 3 x 4 prongs

Height	Blunt	Sharp
135 mm	160-080-13	160-081-13
170 mm	160-080-17	160-081-17
210 mm	160-080-21	160-081-21
240 mm	160-080-24	160-081-24

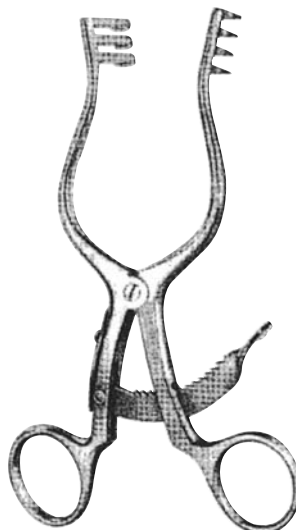
Self-Retaining Retractors
Selbsthaltende Retraktor
Separadores Autoestáticos
Divaricatori Autostatici
Écarteurs autostatiques



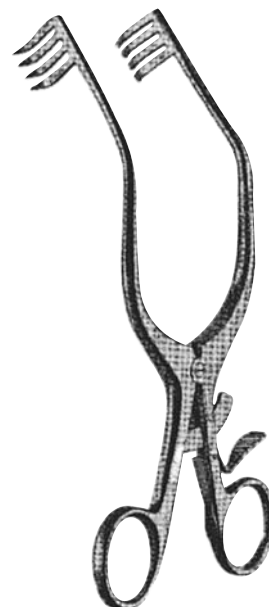
160-052-10
Jansen Retractor 100 mm
3 x 3 blunt prongs



160-055-11
Snitman Endaural
Retractor 115 mm
3 x 3 sharp prongs
Blade 11mm x 15 mm

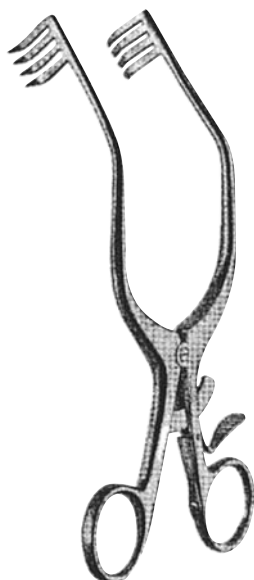


160-057-13
Scalp Contour
Retractor 135 mm
3 x 4 sharp prongs
15 mm x 20 mm



Adson Retractor 185 mm
4 x 4 Sharp Prong
Blade 18 x 18 mm
Straight
angled

160-080-18
160-081-18



160-085-22
D'Erroco-Adson Retractor 180 mm
4 x 4 sharp prongs, 22 mm x 19 mm



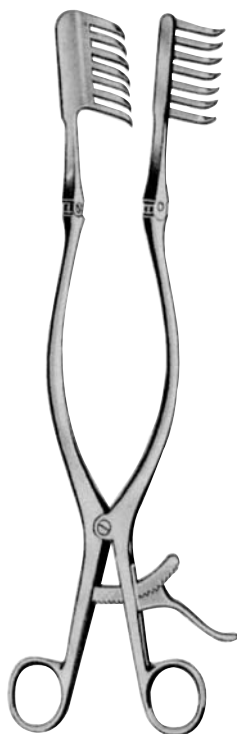
160-087-35
Miskimon Cerebellum Retractor 180 mm
7 x 7 sharp prongs, 35 mm x 32 mm



Adson, 265 mm
5 x 6 prongs
blade 35 mm deep
sharp straight
blunt straight
sharp hinged
blunt hinged

160-089-01
160-089-02
160-089-05
160-089-06

Self-Retaining Retractors Selbsthaltende Retraktor Separadores Autoestáticos Divaricatori Autostatici Écarteurs autostatiques



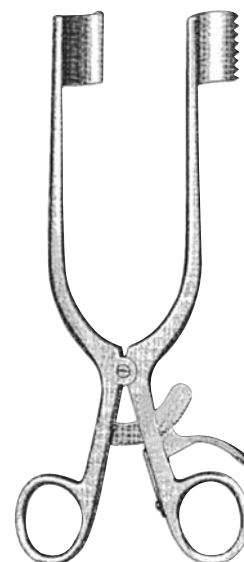
160-092-03
160-092-07

Beckmann - Eaton
320 mm, 7 x 7 Prongs
sharp, blades, 50 mm
blunt, blades, 50 mm



160-093-04
160-093-08
160-093-12
160-093-16

Beckmann - Adson
310 mm, 4 x 4 Prongs
sharp blades 25 mm
blunt blades 25 mm
sharp blades 44 mm
blunt blades 44 mm



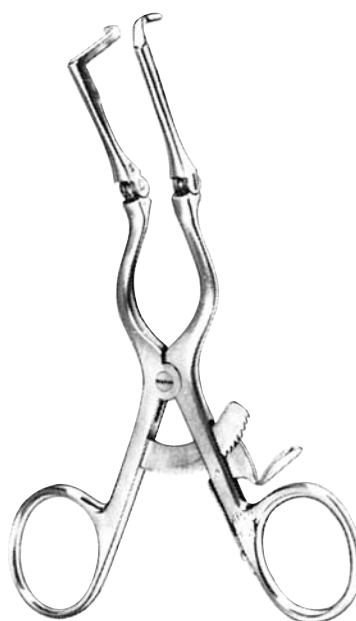
160-095-30
160-095-40
160-095-50
160-095-60

Meyerding Laminectomy
Retractor
160 mm sharp blade
25 mm x 30 mm
25 mm x 40 mm
25 mm x 50 mm
25 mm x 60 mm



160-097-03
160-097-05

Markham-Meyerding
Hemilaminectomy Retractor
175 mm blades 60 mm x 25 mm
left
right



160-098-13
Cervical Tissue Retractor
130 mm



160-101-28
Charnley, 280 mm

Self-Retaining Retractors Selbsthaltende Retraktor Separadores Autoestáticos Divaricatori Autostatici Écarteurs autostatiques



160-102-07 Cloward 170 mm
Frame only
160-102-00 complete set with 7 blades
(30 mm - 60 mm)
160-102-03 complete set with 7 toothed blades
(30 mm - 60 mm)



Cloward
Blades only
160-102-30 30 mm
160-102-35 35 mm
160-102-40 40 mm
160-102-45 45 mm
160-102-50 50 mm
160-102-55 55 mm
160-102-60 60 mm



160-105-07 Cloward 170 mm
Frame only
160-105-00 complete with 7 blades
(30 mm - 60 mm)
160-105-03 complete with 7 toothed blades
(30 mm - 60 mm)



Cloward
Blades toothed
160-105-30 30 mm
160-105-35 35 mm
160-105-40 40 mm
160-105-45 45 mm
160-105-50 50 mm
160-105-55 55 mm
160-105-60 60 mm



160-107-00 Cloward 250 mm
(with snap lock)
Frame only
160-107-03 complete with 7 blades
complete with 7 toothed blades



160-110-07 Cloward Cervical Retractor 150 mm
(with sharp lock)
Frame only
160-110-00 complete with 7 blades
160-110-03 complete with 7 toothed blades

**Spreaders
Spritzgeräte
Separadores
Divaricatori
Écarteurs**



160-122-13
Cloward 130 mm



160-125-16
Inge 160 mm
Small pattern



160-125-05 Inge, 260 mm
160-125-10 Jaw width 5 mm
Jaw width 10 mm
large pattern



160-127-02
Lumbar Lamina Spreader
arm length: 87.5 mm
spread: 37.5 mm



160-129-16
Cloward 160 mm



160-130-14
140 mm

Retractors Retraktor Separadores Divaricatori Écarteurs



160-132-00 Casper Retractor for Lumbar Vertebral operations



	Blade Lengths
160-132-45	45 mm
160-132-50	50 mm
160-132-55	55 mm
160-132-60	60 mm
160-132-65	65 mm



160-137-00 Casper Retractor for Soft tissue with medial and lateral Blades frame only



	Medial Blades width 20 mm
	Blade Lengths
160-138-40	40 mm
160-138-45	45 mm
160-138-50	50 mm
160-138-55	55 mm
160-138-60	60 mm
160-138-65	65 mm



	Lateral Blades width 20 mm
	Blade Lengths
160-139-40	40 mm
160-139-45	45 mm
160-139-50	50 mm
160-139-55	55 mm
160-139-60	60 mm
160-139-65	65 mm



160-143-01 Casper Retractor for Ventral cervical fusion
160-144-05 Casper Retractor (hinged) for Ventral cervical fusion



	Blunt Blades width 20 mm
	Blade Lengths
160-145-45	45 mm
160-145-50	50 mm
160-145-55	55 mm
160-145-60	60 mm
160-145-65	65 mm



Casper distractor for ventral cervical vertebral body fusion

160-150-00	Distractor
160-150-04	Drilling Guide
160-150-12	Drill 2.0 mm with Sleeve
160-150-16	Distraction Screws
160-150-25	Screws Drivers

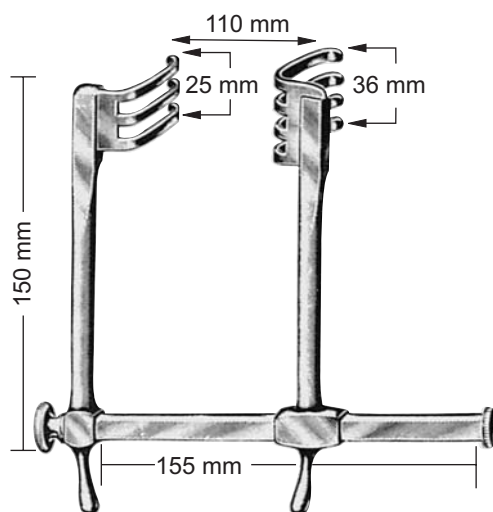
Retractors

Retraktor

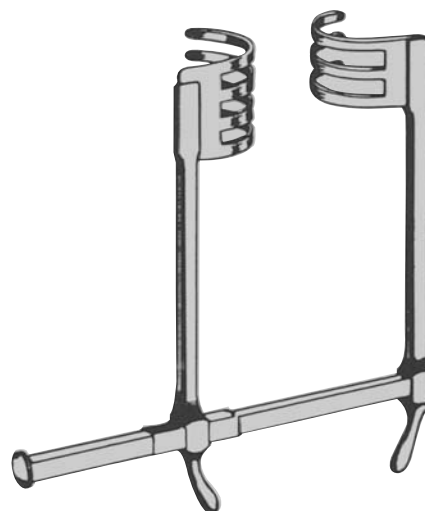
Separadores

Divaricatori

Écarteurs



160-155-15 Temple-Fay



160-160-12 Frazier Laminectomy Retractor
spread: 90 mm
arm length: 125 mm



160-165-01
60 mm x 50 mm



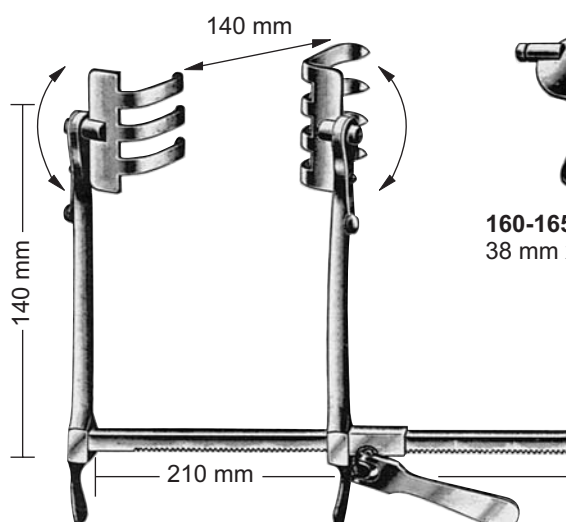
160-165-02
48 mm x 50 mm



160-165-03
28 mm x 40 mm



160-165-04
38 mm x 62 mm



160-165-21 Scoville- Richter

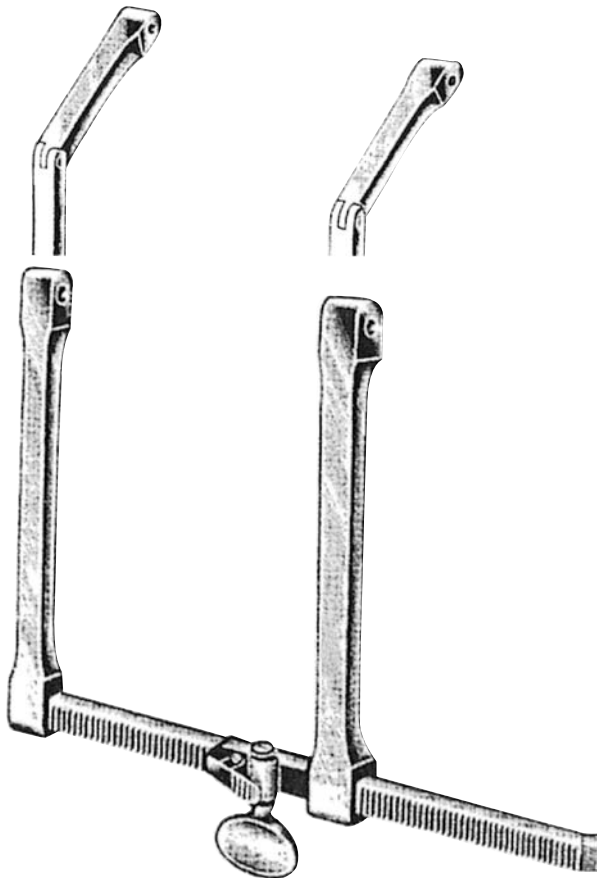


160-167-00 Sheldon
complete with 2 toothed blades
and 1 3-pronged blade



160-167-03
40 mm x 25 mm
Blade only, 3 prong

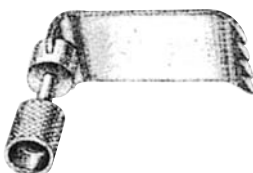
Retractors Retraktor Separadores Divaricatori Écarteurs



160-170-18 Scoville Hemilaminectomy Retractor Body
160-171-18 Haverfield-scoville Hemilaminectomy Retractor Body (hinged)



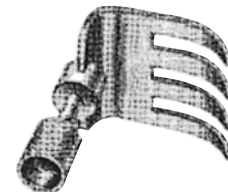
160-172-01 Scoville Blades, hook Style
160-172-02 51 mm depth
160-172-03 76 mm depth
160-172-04 51 mm depth with cross bar
70 mm depth with cross bar



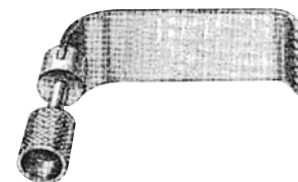
160-174-01 Hibbs blades
160-174-02 25 mm width x 51 mm depth
160-174-03 51 mm width x 50 mm depth
160-174-04 25 mm width x 38 mm depth
160-174-05 38 mm width x 38 mm depth
160-174-06 25 mm width x 76 mm depth
160-174-07 38 mm width x 76 mm depth
160-174-08 51 mm width x 76 mm depth
160-174-09 25 mm width x 102 mm depth
51 mm width x 102 mm depth



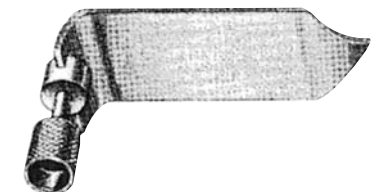
160-175-01 Scoville Blades, solid
160-175-02 25 mm width x 64 mm depth
160-175-03 51 mm width x 64 mm depth
160-175-04 29 mm width x 67 mm depth
25 mm width x 89 mm depth



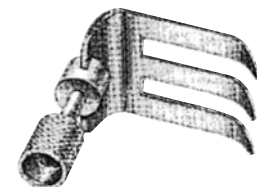
160-176-01 Scoville Blades, 4 prong
160-176-02 38 mm width x 41 mm depth
48 mm width x 67 mm depth



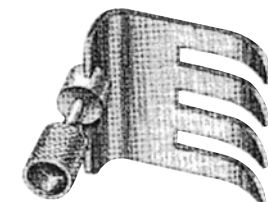
160-177-01 Meyerding Blades
160-177-02 25 mm width x 57 mm depth
160-177-03 25 mm width x 67 mm depth
51 mm width x 89 mm depth



160-178-01 Taylor Spinal Blades
160-178-02 32 mm width x 76 mm depth
32 mm width x 102 mm depth

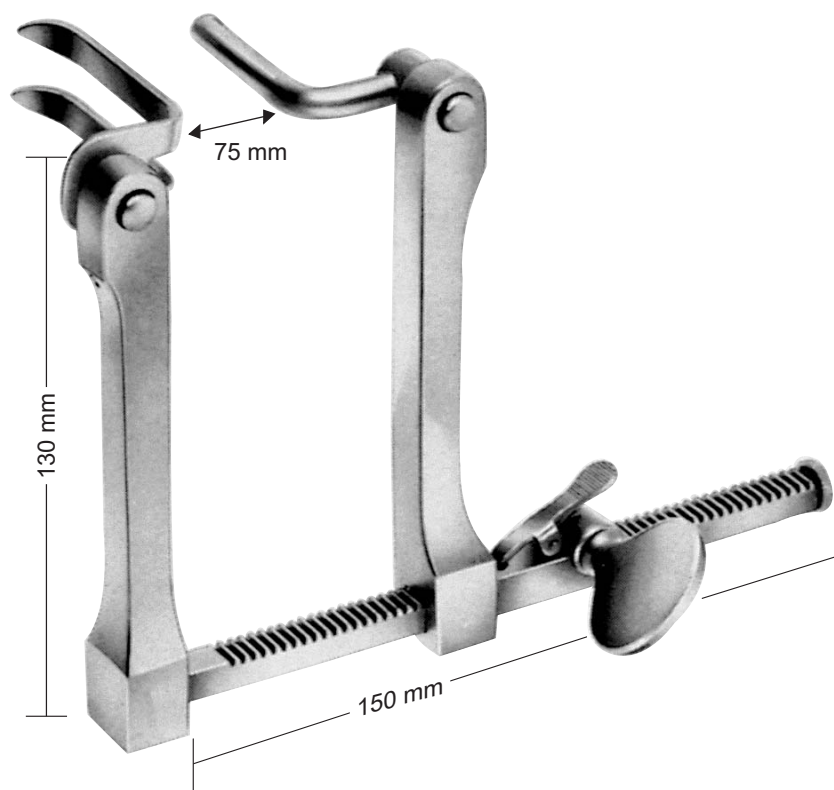


160-179-01 Taylor Laminectomy Blades, 3 prong
38 mm width x 44 mm depth



160-180-01 Taylor Laminectomy Blades
160-180-02 51 mm width x 48 mm depth
160-180-03 64 mm width x 64 mm depth
57 mm width x 76 mm depth

Retractors Retraktor Separadores Divaricatori Écarteurs



160-185-15 Caspar Retractor Frame
160-186-15 Caspar Retractor Frame (hinged)



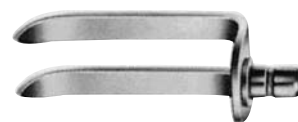
160-188-01 45 x 23 mm
160-188-02 50 x 23 mm
160-188-03 55 x 23 mm
160-188-04 60 x 23 mm
160-188-05 65 x 23 mm



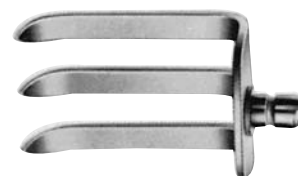
160-189-01 Hook 50 mm



160-189-02 Hook 70 mm



Blades
160-190-01 35 mm x 22 mm
160-190-02 40 mm x 22 mm
160-190-03 45 mm x 22 mm
160-190-04 50 mm x 22 mm
160-190-05 55 mm x 22 mm
160-190-06 60 mm x 22 mm
160-190-07 65 mm x 22 mm
160-190-08 70 mm x 22 mm

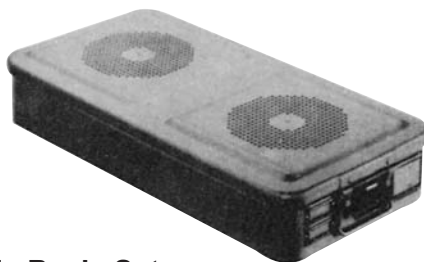


Blades
160-191-01 35 mm x 37 mm
160-191-02 40 mm x 37 mm
160-191-03 45 mm x 37 mm
160-191-04 50 mm x 37 mm
160-191-05 55 mm x 37 mm
160-191-06 60 mm x 37 mm
160-191-07 65 mm x 37 mm
160-191-08 70 mm x 37 mm



Blades
160-192-01 35 mm x 52 mm
160-192-02 40 mm x 52 mm
160-192-03 45 mm x 52 mm
160-192-04 50 mm x 52 mm
160-192-05 55 mm x 52 mm
160-192-06 60 mm x 52 mm
160-192-07 65 mm x 52 mm
160-192-08 70 mm x 52 mm

Pelvic Basic Set / Pelvic Set / Pelvic Implant Set
Becken Grund Set / Becken Set / Becken Implantate Set
Set Básico para Pelvis / Set para Pelvis / Set para Implantes Pélvicos
Set di Base per il Bacino / Set per il Bacino / Set per Impianti Pelvici
Jeu Pelvique de base / Jeu pelvique / Jeu d'implants pelviques



D-190-00 Pelvic Basic Set

196-075-10 Container

196-078-00 Tray

100-003-32 L	Drill Bit 3.2 mm 195 mm	2 Pieces
100-003-45 L	Drill Bit 4.5 mm 195 mm	2 Pieces
100-013-35 D	Taps 3.5 mm	1 Piece
100-013-45 D	Taps 4.5 mm	1 Piece
100-061-25	Screw Drivers for 3.5 mm Screws	1 Piece
100-061-35	Screw Drivers for 4.5 mm Screws	1 Piece
100-070-45	Depth Gauge	1 Piece
100-093-35	Bending Forceps	1 Piece
190-114-35	Bending Templates for Curved Plates 3.5 mm	1 Piece
190-116-35	Bending Templates for Straight Plates 3.5 mm	1 Piece
100-093-45	Bending Iron	1 Piece

D-190-03 Pelvic Set

196-075-10 Container

196-078-00 Tray

100-040-01	Tap Handle	1 Piece
135-228-04	Sharp Bone Hook	1 Piece
100-384-24	Pelvic Retractor	1 Piece
190-140-35	Pelvic Repositions Forceps 190 mm	1 Piece
190-140-45	Pelvic Repositions Forceps 260 mm	1 Piece
100-272-20	Reduction Forceps 200 mm	1 Piece
190-248-25	Pelvic Reduction Forceps Asymmetric with 3 Ball spikes 250 mm	1 Piece
190-249-25	Pelvic Reduction Forceps Asymmetric 250 mm	1 Piece
190-250-40	Pelvic Reduction Forceps Asymmetric 400 mm	1 Piece
190-210-19	Pelvic Reposition Forceps 190 mm	1 Piece
190-218-23	Pelvic Reposition Forceps 230 mm	1 Piece
190-227-25	Pelvic Reposition Forceps 250 mm	1 Piece
190-231-25	Pelvic Reposition Forceps with 3 Ball Spikes 250 mm	1 Piece
190-240-40	Pelvic Reposition Forceps 400 mm	1 Piece
190-247-40	Pelvic Reposition Forceps 400 mm	1 Piece
190-260-12	Straight Ball Spike 300 mm	1 Piece
145-360-20	Schanze Ø 6 mm 200 mm	4 Pieces
190-255-33	Pelvic Reduction Forceps	1 Piece

D-190-11 Pelvic Implant Set

196-075-10 Container

196-190-05 Tray Plates

196-190-06 Tray for Screws

124-200-02	Small Plates 4.5 mm 2 holes	2 Pieces
190-025-03	Reconstruction Plates 4.5 mm, 3 holes	2 Pieces
190-025-04	Reconstruction Plates 4.5 mm, 4 holes	2 Pieces
190-025-14	Reconstruction Plates 4.5 mm, 14 holes	1 Piece
125-275-05 To	Reconstruction Plates 3.5 mm	
125-275-09	2 each: 5 - 6 - 7 - 8 - 9 holes	10 Pieces
125-275-10 To	Reconstruction Plates 3.5 mm	
125-275-18	1 each: 10 - 12 - 14 - 16 - 18 holes	5 Pieces
190-055-06 To	Curved Reconstruction Plates 3.5 mm	
190-055-08	2 each: 6 - 8 holes	4 Pieces
190-055-10 To	Curved Reconstruction Plates 3.5 mm	
190-055-18	1 each: 10 - 12 - 14 - 16 - 18 holes	5 Pieces
124-045-70 To	Screws 4.5 mm Ø	
124-045-94	3 each: 70 - 75 - 80 - 85 - 90 - 95 - 100 - 105 - 110 mm	27 Pieces
125-035-55 To	Screws 3.5 mm Ø	
125-035-94	3 each: 55 - 60 - 65 - 70 - 75 - 80 - 85 - 90 - 95 - 100 - 105 - 110 mm	36 Pieces
124-105-95/96	Cancellous Screws 6.5 mm x 16 mm	
	3 each: 115 - 120 mm	6 Pieces
124-105-50 To	Cancellous Screws 6.5 mm x 16 mm	
124-105-60	3 each: 50 - 55 - 60 mm	9 Pieces

Pelvic Instruments
Becken Instrumente
Instrumentos Pélvicos
Strumenti Pelvici
Outils pelviques



Bending Templates

- 190-110-45** for curved Reconstruction Plates 4.5 mm Bending Templates
- 190-112-45** for straight Reconstruction Plates 4.5 mm Bending Templates
- 190-114-35** for curved Reconstruction Plates 3.5 mm Bending Templates
- 190-116-35** for straight Reconstruction Plates 3.5 mm Bending Templates



100-093-45 Bending Iron
for 3.5 mm and 4.5 mm Plates



100-093-35 Bending Pliers for
2.7 mm and 3.5 mm Plates

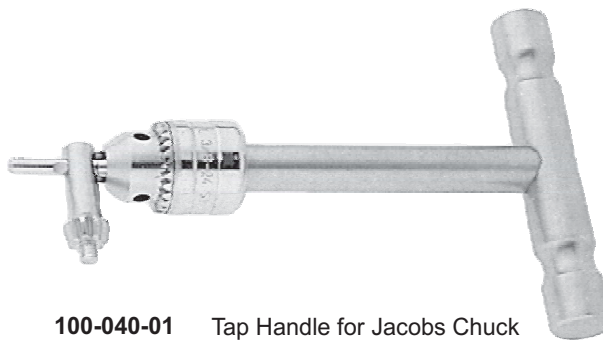


190-130-15 Osteotomy Chisels 304 mm, 15 mm
190-130-20 Osteotomy Chisels 304 mm, 20 mm

**Pelvic Instruments
Becken Instrumente
Instrumentos Pélvicos
Strumenti Pelvici
Outils pelviques**



135-228-04 Sharp Bone Hook



100-040-01 Tap Handle for Jacobs Chuck



100-384-24 Long wide tip for pelvic Surgery, width 24 mm



100-272-20 Reduction Forceps with points 200 mm



190-140-35 Pelvic Reposition Forceps 190 mm for Screws 3,5 mm
190-140-45 Pelvic Reposition Forceps 190 mm for Screws 4,5 mm

Pelvic Reduction Instruments
Becken Reponieren Instrumente
Instrumentos de Reducción Pélvica
Strumenti di Riduzione Pelvica
Outils de réduction pelvique



190-210-19
Pelvic Reposition Forceps 190 mm



190-218-23
Pelvic Reposition Forceps 230 mm

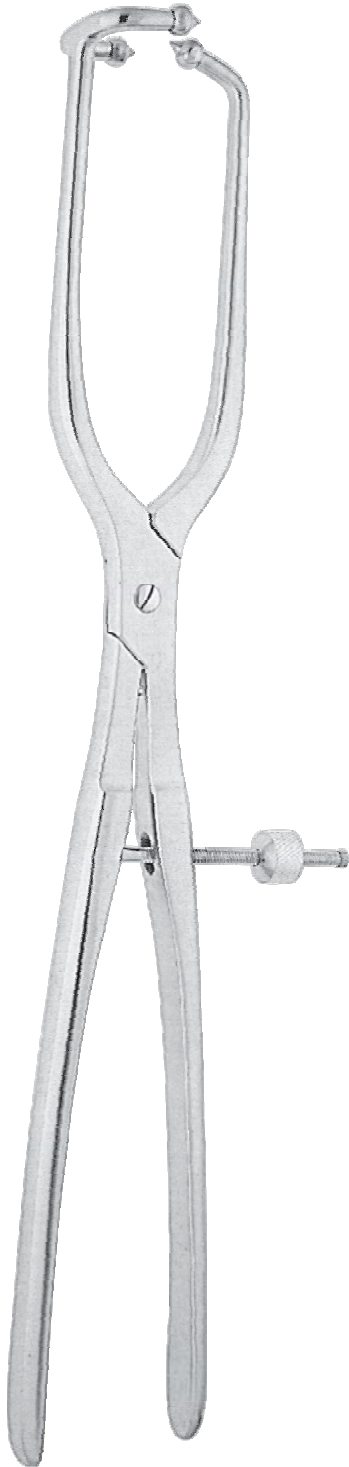


190-227-25
Pelvic Reposition Forceps 250 mm

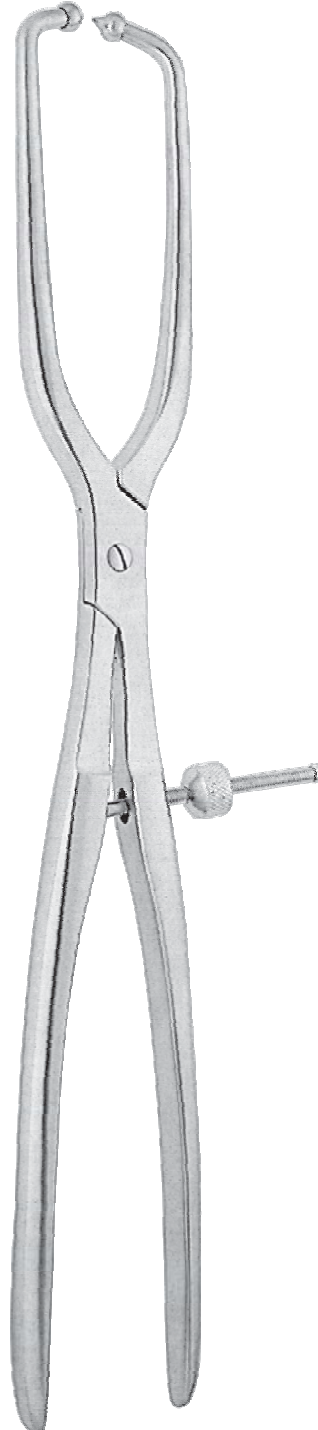


190-231-25
Pelvic Reposition Forceps with
3 Balls Spikes 250 mm

Pelvic Reduction Instruments
Becken Reponieren Instrumente
Instrumentos de Reducción Pélvica
Strumenti di Riduzione Pelvica
Outils de réduction pelvique



190-240-40
Pelvic Reposition Forceps 400 mm



190-247-40
Pelvic Reposition Forceps 400 mm

Pelvic Reduction Instruments
Becken Reponieren Instrumente
Instrumentos de Reducción Pélvica
Strumenti di Riduzione Pelvica
Outils de réduction pelvique



190-248-25
Pelvic Reduction Forceps Asymmetric
with 3 ball Spikes 250 mm

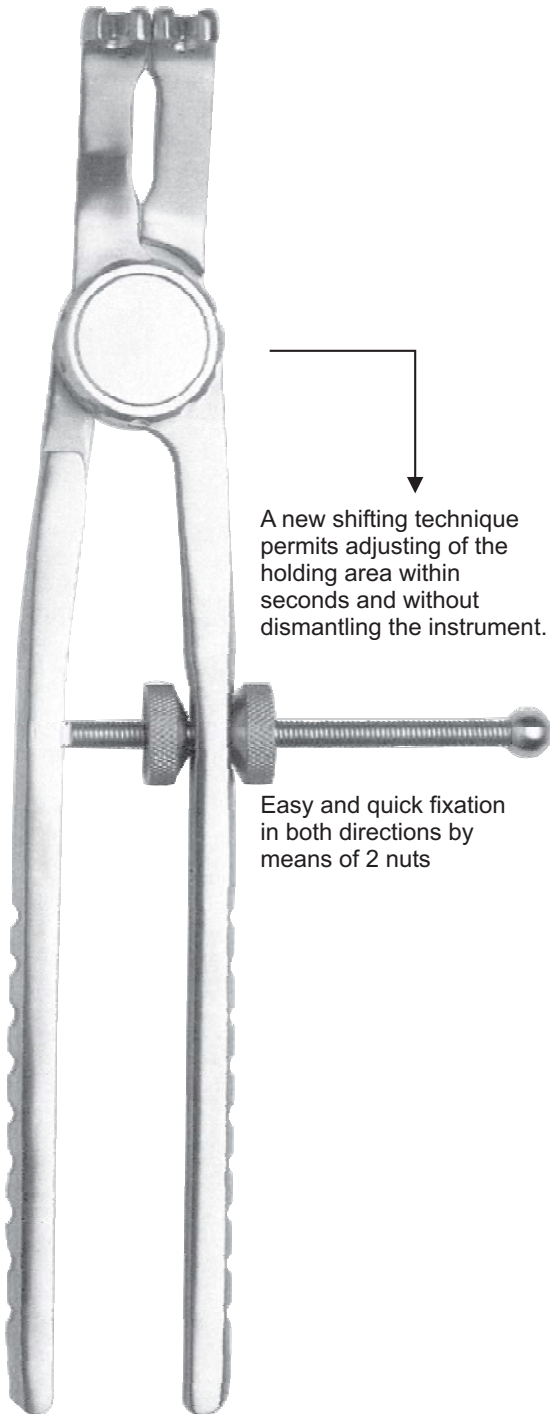


190-249-25
Pelvic Reduction Forceps Asymmetric
250 mm



190-250-40
Pelvic Reduction Forceps
Asymmetric 400 mm

Pelvic Reposition Forceps
Becken Reponieren Zangen
Pinzas para Reposición Pélvica
Pinze per Riposizioni Pelviche
pincers de replacement pelvique



190-252-04
 Reposition Forceps

A new shifting technique
 permits adjusting of the
 holding area within
 seconds and without
 dismantling the instrument.

Easy and quick fixation
 in both directions by
 means of 2 nuts



190-255-33
 Pelvic Reduction Forceps for Screws
 Adjustable Large, Quick Action Lock 330 mm



190-260-12
 Straight Ball
 Spike 300 mm



145-360-20
 Schanze Screws
 Ø 6 mm 200 mm

**Plaster Instruments
Gips Instrumente
Instrumentos para Yeso
Strumenti per Gessi
Outils de plâtre**



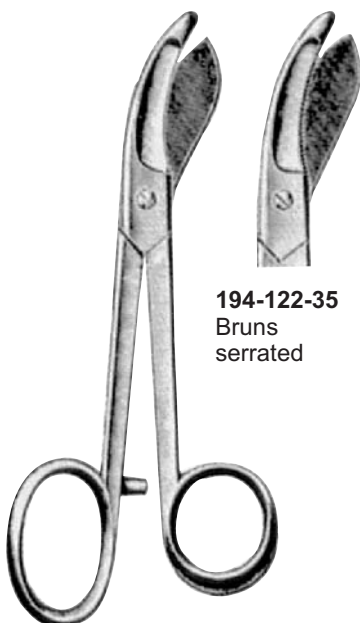
194-110-20 Engel



194-115-20 Stile 20 cm
194-115-23 23 cm
194-115-26 26 cm
194-115-37 37 mm



194-112-18 Esmarch 18,0 cm



194-122-20 Bruns

194-122-35
Bruns
serrated



194-130-21 Mod. Seutin 21,0 cm

**Plaster Instruments
Gips Instrumente
Instrumentos para Yeso
Strumenti per Gessi
Outils de plâtre**



194-140-62 Stryker



94-143-45 Hennig



194-155-14 Knowles 14,0 cm



194-164-18 Wolff - Böhler 18,0 cm
194-166-24 24,0 cm

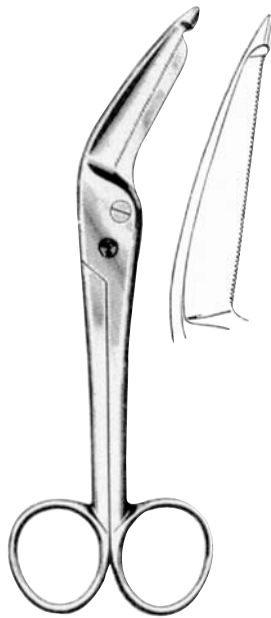


194-170-15 Wolff-Böhler Miniatur

**Plaster Instruments
Gips Instrumente
Instrumentos para Yeso
Strumenti per Gessi
Outils de plâtre**



194-195-23 Lorenz
23,0 cm



194-200-19 Lister
Exentric 19,0 cm



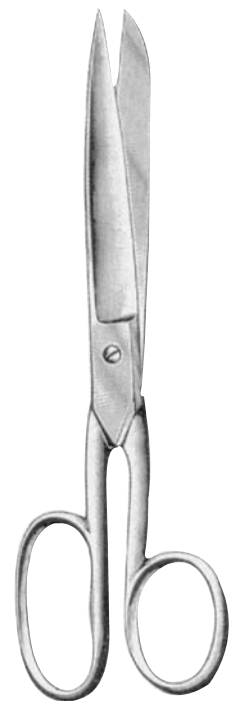
194-215-20 20,0 cm



194-223-23 Bergmann
23,0 cm

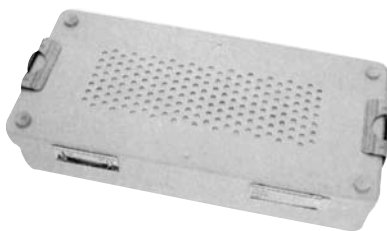


194-230-14 Lister
14,0 cm
194-230-18 18,0 cm
194-230-20 20,0 cm



194-240-19 Smith Mod USA
18,0 cm
194-240-20 20,0 cm
194-240-23 23,0 cm

Container Behälter Contenedor Contentitore Réceptacle

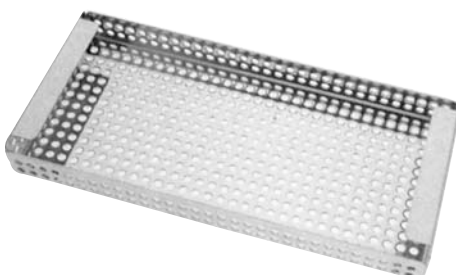


Lid Perforated



Cat. No.:	L (mm)	B (mm)	H (mm)
196-024-40	300	140	40
196-024-70	300	140	70

Tray For Container



Lid Perforated



Cat. No.:	L (mm)	B (mm)	H (mm)
196-028-40	300	140	40
196-028-70	300	140	70

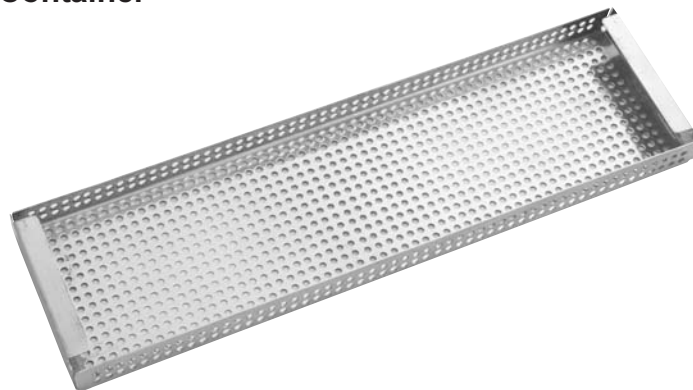
Container
Behälter
Contenedor
Contentitore
Réceptacle



Aluminum container

Cat. No.:	L (mm)	B (mm)	H (mm)
196-015-12	480	120	70
196-045-17	300	120	70

Tray For Container



Tray Perforated

Cat. No.:		L (mm)	B (mm)	H (mm)
196-018-00	Plain tray	460	100	30
196-048-00	w/o partition	460	100	30
196-048-01	with partition	280	100	30

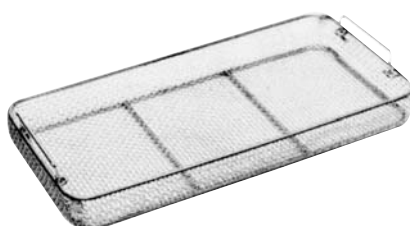
Container Behälter Contenedor Contentitore Réceptacle



Lid Perforated



Cat. No.:	L (mm)	B (mm)	H (mm)
196-085-10	280	280	100
196-085-13	280	280	135
196-085-15	280	280	150
196-085-20	280	280	200
196-085-26	280	280	260



Sterilization wire baskets for containers,
made of stainless steel, stackable

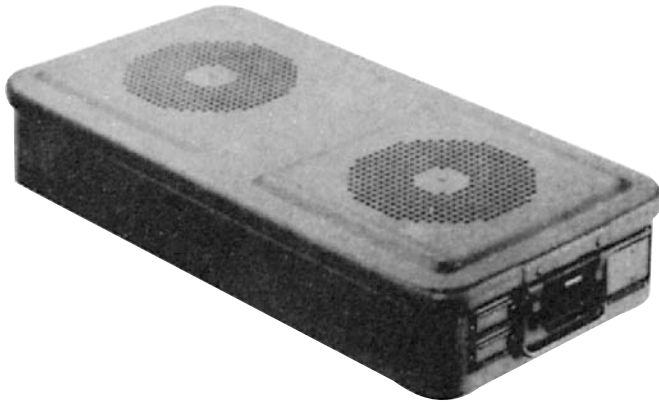
Cat.No.:	
196-088-30	250 x 250 x 30 mm
196-088-50	250 x 250 x 50 mm
196-088-70	250 x 250 x 70 mm
196-088-95	250 x 250 x 95 mm



From Perforated Sheet Metal

Cat.No.:	
196-089-30	250 x 250 x 30 mm
196-089-50	250 x 250 x 50 mm
196-089-70	250 x 250 x 70 mm
196-089-95	250 x 250 x 95 mm

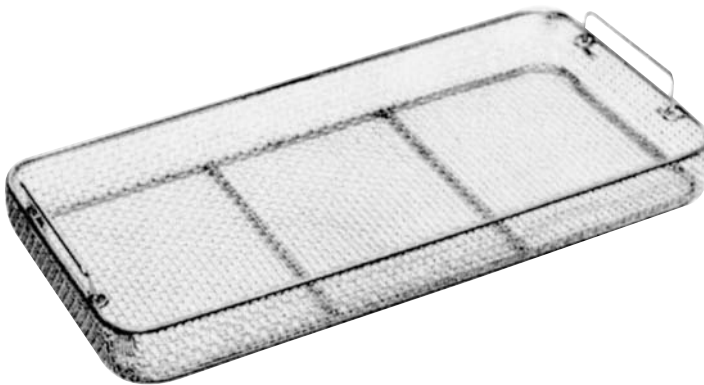
Container Behälter Contenedor Contentitore Réceptacle



Lid Perforated



Cat. No.:	L (mm)	B (mm)	H (mm)
196-075-10	580	280	100
196-075-13	580	280	135
196-075-15	580	280	150
196-075-20	580	280	200
196-075-26	580	280	260
196-075-30	580	280	300



Sterilization wire baskets for containers,
made of stainless steel, stackable

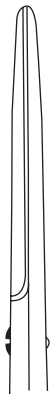
Cat.No.:	
196-078-30	540 x 255 x 30 mm
196-078-50	540 x 255 x 50 mm
196-078-70	540 x 255 x 70 mm
196-078-95	540 x 255 x 95 mm



From Perforated Sheet Metal

Cat.No.:	
196-079-30	540 x 255 x 30 mm
196-079-50	540 x 255 x 50 mm
196-079-70	540 x 255 x 70 mm
196-079-95	540 x 255 x 95 mm

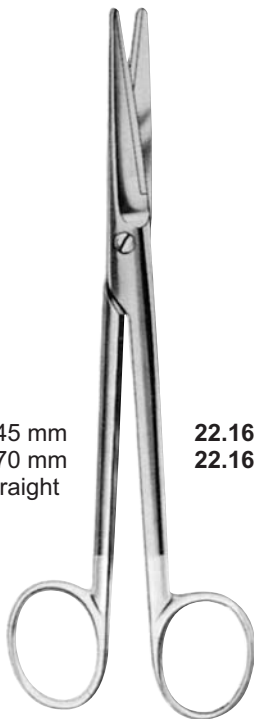
Operating Scissors / Dissecting Scissors
Operationsscheren / Präparierscheren
Tijeras Quirúrgicas / Tijeras de Disección
Forbici per Chirurgia / Forbici per Dissezione
Ciseaux d'opération / ciseaux de dissection



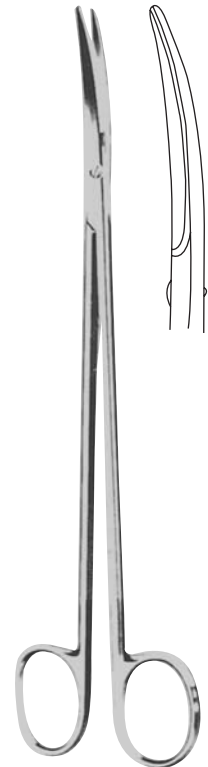
22.164.14 TC 145 mm
22.164.17 TC 170 mm
 straight



22.165.14 TC 145 mm
22.165.17 TC 170 mm
 curved



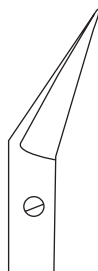
Mayo TC cutting edges



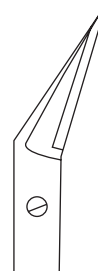
22.287.20 Metzenbaum
 200 mm
22.287.23 230 mm
 with TC cutting edges
 delicate, curved



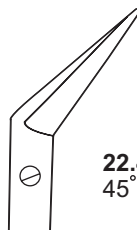
Potts-Smith, 190 mm



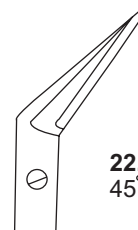
22.480.25
 25°



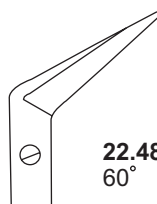
22.484.25
 25°



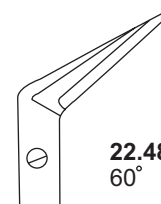
22.480.45
 45°



22.484.45
 45°

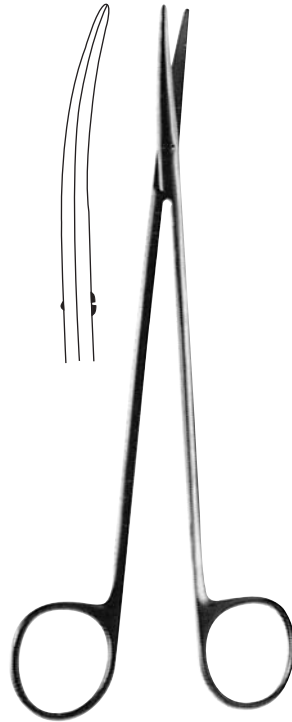


22.480.60
 60°

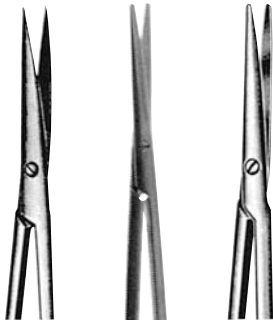


22.484.60
 60°

Operating Scissors / Dissecting Scissors
Operationsscheren / Präparierscheren
Tijeras Quirúrgicas / Tijeras de Disección
Forbici per Chirurgia / Forbici per Dissezione
Ciseaux d'opération / ciseaux de dissection



22.613.18
 Toennis-Adson
 180 mm
 extra-delicate
 curved



22.930.18
 sharp points

22.931.18
 blunt points



DeMartel, 180 mm
 straight



22.932.18
 sharp points

22.933.18
 blunt points



DeMartel, 180 mm
 curved

Needle Holders / Tissue Forceps
Nadelhalter / Gewebepinzetten
Porta-Agujas / Pinzas para Tejidos
Porta Aghi / Pinze per Tessuti
Porte-aiguilles / pinces pour tissus



Mayo-Hegar with TC tips

34.184.14 140 mm
34.184.18 180 mm
34.184.20 200 mm



Crile-Wood with TC tips

34.164.15 150 mm
34.164.18 180 mm
34.164.20 200 mm
34.164.23 230 mm



French Eye delicate, narrow jaws

34.224.15 150 mm
34.224.18 180 mm
34.224.20 200 mm
34.224.23 230 mm



Adson

24.170.12 120 mm
24.174.12 TC 120 mm
24.170.15 150 mm
24.174.15 TC 150 mm



Potts-Smith

24.112.18 180 mm
24.112.21 210 mm
24.112.25 250 mm
24.116.18 TC 180 mm
24.116.21 TC 210 mm
24.116.25 TC 250 mm



Potts-Smith

24.126.18 180 mm
24.126.21 210 mm
24.126.25 250 mm

**Chisels / Osteotomes / Gouges
Meißel / Osteotomien / Meißeln
Gubias / Osteotomos / Cinceles
Scalpelli / Osteotomi / Sgorbie
Ciseaux / Ostéotomes / Gouges**



Stille

100-635-10
100-635-12
100-635-15
100-635-20
100-635-25

Chisels
10 mm
12 mm
15 mm
20 mm
25 mm

100-636-10
100-636-12
100-636-15
100-636-20
100-636-25

Osteotome
10 mm
12 mm
15 mm
20 mm
25 mm



100-640-02 170 mm length 2 mm width
100-640-05 170 mm length 5 mm width
100-640-10 170 mm length 10 mm width

Mini- Lambotte



Lambotte

100-642-10 Straight 10 mm
100-642-15 Straight 15 mm
100-642-20 Straight 20 mm
100-642-25 Straight 25 mm
100-642-30 Straight 30 mm
100-642-38 Straight 38 mm
100-642-44 Straight 44 mm
100-642-50 Straight 50 mm

100-643-10 Curved 10 mm
100-643-15 Curved 15 mm
100-643-20 Curved 20 mm
100-643-25 Curved 25 mm
100-643-30 Curved 30 mm
100-643-38 Curved 38 mm
100-643-44 Curved 44 mm
100-643-50 Curved 50 mm

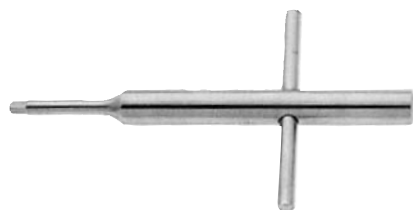


100-650-00 Chisel Handle



100-650-05 Chisel Blade 5 mm
100-650-10 Chisel Blade 10 mm
100-650-16 Chisel Blade 16 mm
100-650-25 Chisel Blade 25 mm

100-651-05 Osteotome Blade 5 mm
100-651-10 Osteotome Blade 10 mm
100-651-16 Osteotome Blade 16 mm
100-651-25 Osteotome Blade 25 mm



100-650-40 Wrench for Chisel Handle



100-680-05 Straight 5 mm
100-680-10 10 mm
100-680-15 15 mm
Curved
100-681-05 5 mm
100-681-10 10 mm
100-681-15 15 mm



100-602-35 Weight approx:350 g
100-602-50 Weight approx:500 g
100-602-70 Weight approx:700 g

Impactors / Hook / Rasp.
Impaktor / Haken / Raspel
Impactores / Gancho / Escofina
Impattatori / Uncino / Raspa
Impacteurs / Crochets / Râpe



- Bone Impactor,
198-055-01 curved, 6 mm dia. Length 140 mm
198-055-02 curved, 6 mm dia. Flattened Length 140 mm
198-055-03 straight, 8 mm dia. Length 140 mm
198-055-04 rectangular, 6 x 16 mm dia. Length 140 mm
198-055-05 rectangular, 10 x 20 mm dia. Length 140 mm
198-055-06 rectangular, 10 x 30 mm dia. Length 140 mm

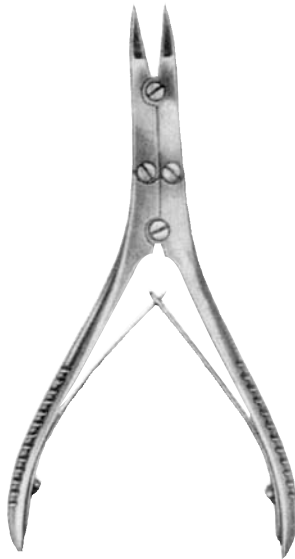


- Bone Hook
198-067-01 blunt
198-067-04 sharp



- 100-938-30** Putti, 300 mm

Bone Cutting Forceps / Bone Rongeur
Knochensplitterzange
Cizallas para Huesos / Gubia
Cesoie per Ossa / Sgorbia
Pinces de découpe d'os / Rongeur d'os



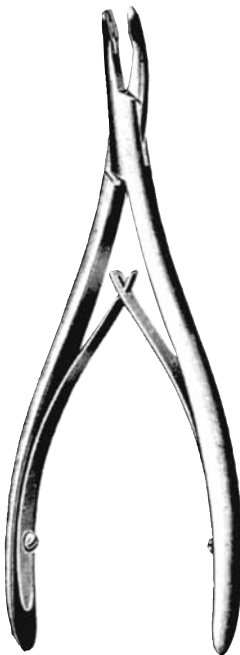
102-020-15 Bohler 150 mm straight
102-021-15 Bohler 150 mm curved



102-025-19 Ruskin-Liston 190 mm straight
102-026-19 Ruskin-Liston 190 mm curved



102-205-17
 Stellbrink Rongeur 175 mm



102-215-19 Lempert 190 mm straight
102-216-19 Lempert 190 mm curved



102-225-15 Bohler Rongeur 150 mm straight
102-226-15 Bohler Rongeur 150 mm curved



102-280-02 Echlin, 230 mm 2 mm
102-280-03 3 mm
102-280-04 4 mm

Awls / Punch / Retractors
Ahlen / Locher / Retraktoren
Punzones / Pinzas Sacabocado / Separadores
Punteruoli / Pinze Taglienti / Divaricatori
Trépans / Poinçons / Écarteurs



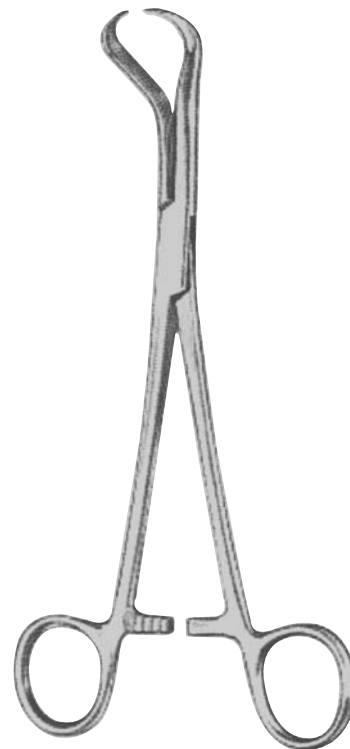
198-080-20
Glenoid Punch,
for Bankart repair 200 mm



198-084-22
Precussion awl with
metal handle 220 mm



198-088-03
Penetrating Awl
with phenolic Handle



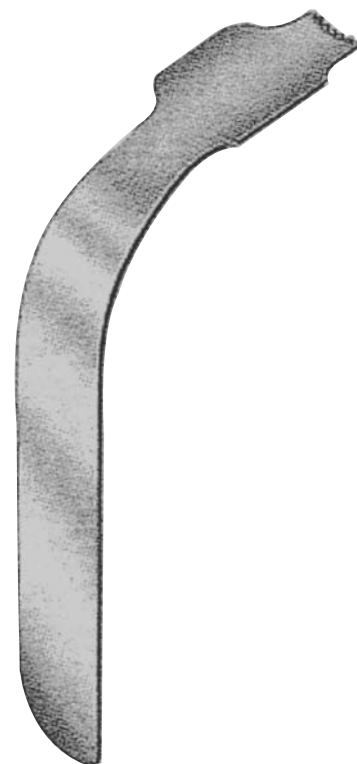
198-090-17
Reaming Forcep,
for Bankart repair 175 mm



198-093-14
Retractor for shoulder



198-095-20
Richardson Retractor



198-098-22
Goldstein Gleniod Neck Retractor
210 mm Overall length

Retractors Retraktor Separadores Divaricatori Écarteurs



100-382-22
width 22 mm wide tip



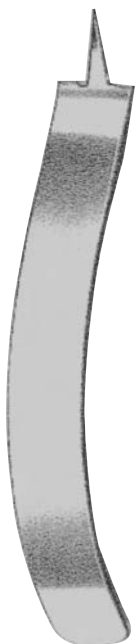
198-105-18
Humeral Head Retractor,
180 mm, strong curve



198-115-15
Kolbel Glenoid Lever
15 mm wide blade



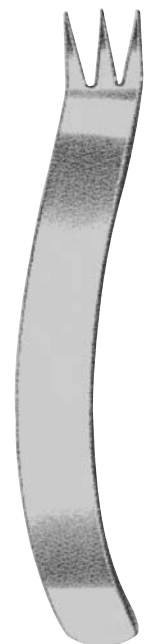
198-115-20
Kolbel Glenoid Lever
20 mm wide blade



198-145-01
Capsule Retractor
one prong, 255 mm, 20 mm wide

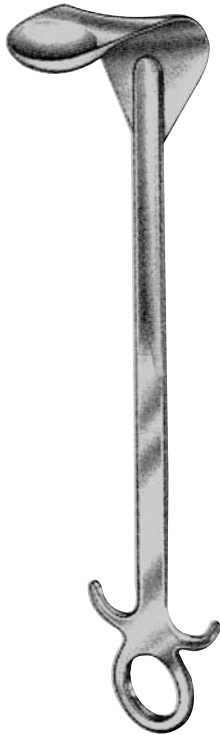


198-146-02
Capsule Retractor
two prong, 255 mm, 20 mm wide



198-147-03
Capsule Retractor
three prong, 255 mm, 20 mm wide

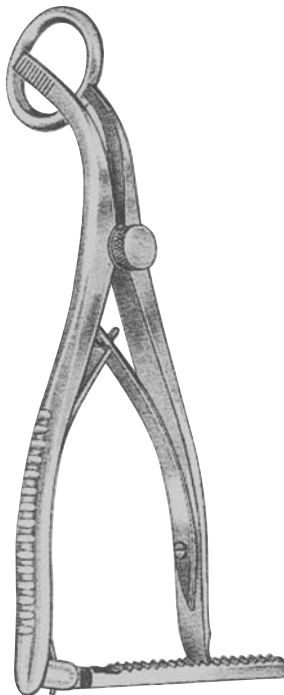
Retractors Retraktor Separadores Divaricatori Écarteurs



198-160-01 Browne-Deltoid Retractor
small, 280 mm Blade is 46 mm wide
198-160-05 large, most popular 280 mm Blade is 55 mm wide



198-168-26 Fukuda Shoulder Retractor,
205 mm, red color coded handle small,
opening measures 26 mm x 42 mm
198-168-30 Fukuda Shoulder Retractor,
205 mm, blue color coded handle large,
opening measures 30 mm x 42 mm



198-174-01 Sub Acromium Retractor
Left, 180 mm long
198-174-02 Right, 180 mm long



198-178-01 Darrach Retractors
Small, 10 mm wide, 260 mm long
198-178-02 Medium, 15 mm wide, 260 mm long
198-178-03 Large, 20 mm wide, 260 mm long
198-178-04 Extra Large, 25 mm wide, 260 mm long

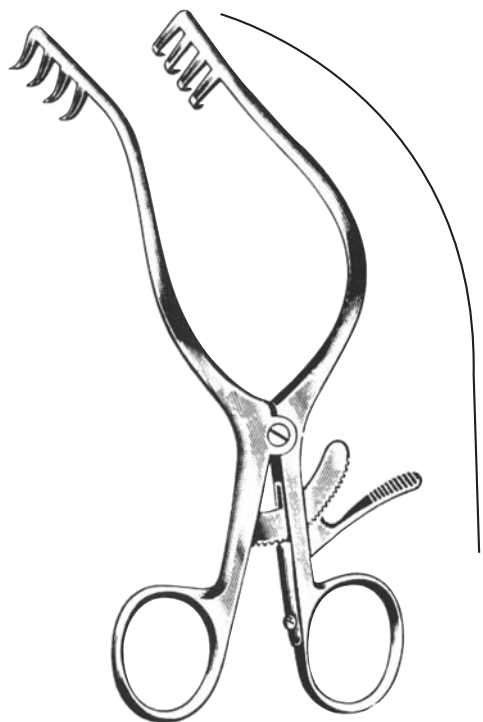
Self-Retaining Retractors

Selbsthaltende Retraktor

Separadores Autoestáticos

Divaricatori Autostatici

Écarteurs autostatiques



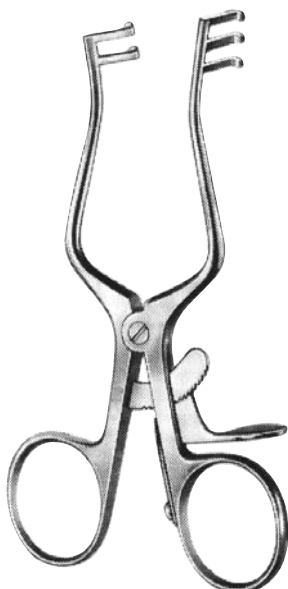
100-485-15 Mollison 150 mm



100-487-18 Gelpi 180 mm



198-180-15 Self-Retaining Retractors
90° angled,
150 mm, fine tips



Weitlaner

Size	Pronges	Blunt	Sharp
105 mm	2 x 3	100-480-01	100-481-01
130 mm	3 x 4	100-480-04	100-481-04
165 mm	3 x 4	100-480-09	100-481-09
200 mm	3 x 4	100-480-15	100-481-15
250 mm	5 x 6	100-480-18	100-481-18



198-188-01 Self-Retaining Retractor
straight single prongs 180 mm
198-188-03 Self-Retaining Retractor
angled single prongs 180 mm
198-188-07 Self-Retaining Retractor
angled 2 prongs 180 mm

Self-Retaining Retractors **Selbsthaltende Retraktor** **Separadores Autoestáticos** **Divaricatori Autostatici** **Écarteurs autostatiques**



198-210-01 Self-Retaining Retractor Frame only
198-210-05 Self-Retaining Retractor (hinged) Frame only

Kolbel Self Retractor Blades



Blades only straight

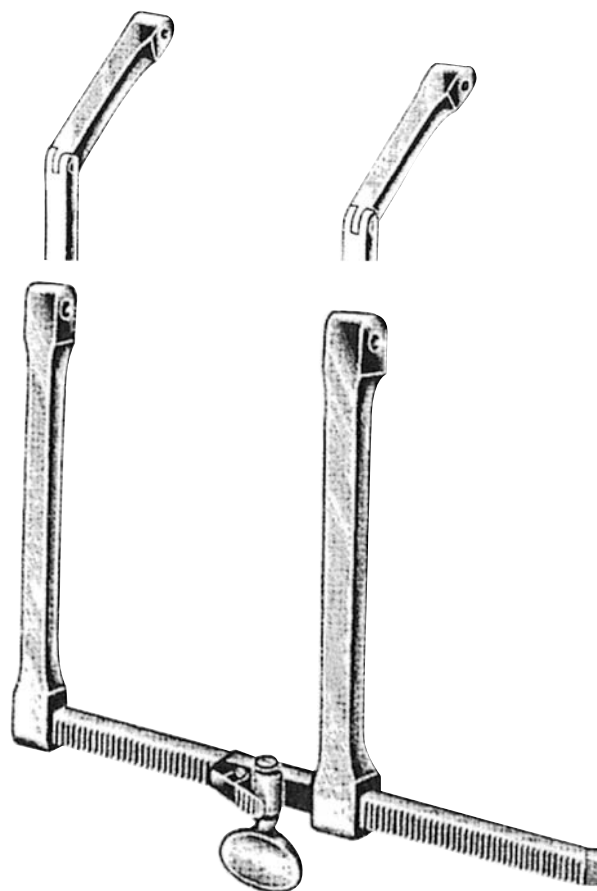
198-212-01	20 x 35 mm
198-212-02	20 x 55 mm
198-212-03	20 x 70 mm
198-212-04	20 x 85 mm
198-212-11	35 x 35 mm
198-212-12	35 x 55 mm
198-212-13	35 x 70 mm
198-212-14	35 x 85 mm



Blades toothed

198-213-01	20 x 35 mm
198-213-02	20 x 55 mm
198-213-03	20 x 70 mm
198-213-04	20 x 85 mm
198-213-11	35 x 35 mm
198-213-12	35 x 55 mm
198-213-13	35 x 70 mm
198-213-14	35 x 85 mm

Self-Retaining Retractors Selbsthaltende Retraktor Separadores Autoestáticos Divaricatori Autostatici Écarteurs autostatiques



198-225-01 Retractor Body (Straight)
198-225-05 Retractor Body (hinged)

Kolbel Self Retractor Blades



Blades only Straight

198-212-01	20 x 35 mm
198-212-02	20 x 55 mm
198-212-03	20 x 70 mm
198-212-04	20 x 85 mm
198-212-11	35 x 35 mm
198-212-12	35 x 55 mm
198-212-13	35 x 70 mm
198-212-14	35 x 85 mm



Blades toothed

198-213-01	20 x 35 mm
198-213-02	20 x 55 mm
198-213-03	20 x 70 mm
198-213-04	20 x 85 mm
198-213-11	35 x 35 mm
198-213-12	35 x 55 mm
198-213-13	35 x 70 mm
198-213-14	35 x 85 mm

Basic Instruments Set for Interlocking Nail System



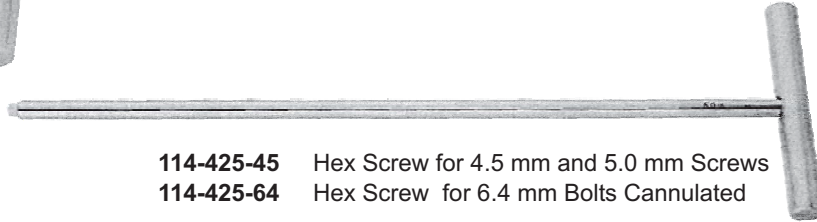
D-114-005 Basic Instrument Set for Interlocking Nail System **196-075-00 Container** **196-080-03 Tray - Set of 3 (Complete Stainless Steel)**

114-400-07	Universal Socket Wrench
114-425-64	Hex Driver for 6,4 mm Screws (Cannulated Hex Driver)
114-425-45	Hex Driver for 5,0 mm Screws (Cannulated Hex Driver)
114-448-12	Medullary Exchange Tube
114-472-05	Internal Fracture Alignment Device
114-422-10	Depth Gauge
114-452-35	Twist Drill, 3,5 mm, Length 305 mm
114-452-40	Twist Drill, 4,0 mm, Length 305 mm
114-452-48	Twist Drill, 4,8 mm, Length 305 mm
114-453-24	Trocar 4,0 mm x 240 mm
114-455-18	Guide Rod for Cannulated Screws Ø 1.8 x 350mm (10 pieces)
114-403-14	Open End Wrench SW 17 / 19
114-465-88	Reamer / Nail / screw Template
114-468-90	Nail Length Gauge
114-409-05	Supine Driver
100-040-01	Handle with Jacobs Chuck
114-438-02	Tibia Proximal Device
114-432-01	Skin Protector
114-562-15	Tapered Reamer Cannulated Ø 15.5mm
114-428-04	Curved AWL
114-562-13	Tapered Reamer Cannulated Ø 13.3mm
114-460-80	Green Drill Sleeve Ø 8.0mm
114-461-21	Silver Drill Sleeve Ø 2.1mm
114-461-48	Blue Drill Sleeve Ø 4.8mm
114-461-40	Gold Drill Sleeve Ø 4.0mm
114-461-35	Black Drill Sleeve Ø 3.5mm
114-406-02	Slide Hammer
114-444-23	Tibial Extractor Bolt
114-563-00	Femoral and DNS / MFN Femoral Nail Extractor Bolt
114-435-03	Length Gauge DNS / MFN
114-563-00	Femoral and DNS, Femoral Nail Extractor Bolt
114-564-00	Nail Adapter Bolt for Drill Guide 114-566-00
114-566-00	Universal Proximal Device for Femoral and DNS / MFN Femoral Nails
114-567-40	Twist Drill Cannulated Ø 4.0 x 305mm
114-568-48	Twist Drill Cannulated Ø 4.8 x 305mm
114-579-64	DNS / MFN Reamer Ø 6.4mm, Proximal

Instruments for Interlocking Nail System



114-400-07 Universal Socket Wrench



114-425-45 Hex Screw for 4.5 mm and 5.0 mm Screws

114-425-64 Hex Screw for 6.4 mm Bolts Cannulated



114-448-12 Medullary Exchange Tube



114-472-05 Internal Fracture Alignment Device



114-422-10 Depth Gauge



Drill Bits Cannulated hole $\varnothing$ 2,1 mm Length 150 mm

Cat. No.	$\varnothing$ mm
114-475-35	3.5
114-475-40	4.0
114-475-48	4.8



Drill Bits Length 150 mm

Cat. No.	$\varnothing$ mm
114-476-27	2.7
114-476-35	3.5
114-476-40	4.0
114-476-48	4.8

Instruments for Interlocking Nail System



Twist Drills Length 305 mm

Cat. No.	Ømm
114-452-27	2,7
114-452-35	3,5
114-452-40	4,0
114-452-48	4,8



114-453-24 Trocar Ø 4.0 mm x 240



114-454-32 Tip Threaded Guide Pin Ø 3.2 mm x 305 mm (recommended)



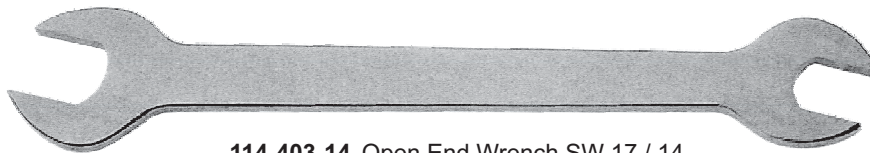
114-455-18 Guide Rod for Cannulated Screws Ø 1.8 mm x 350 mm



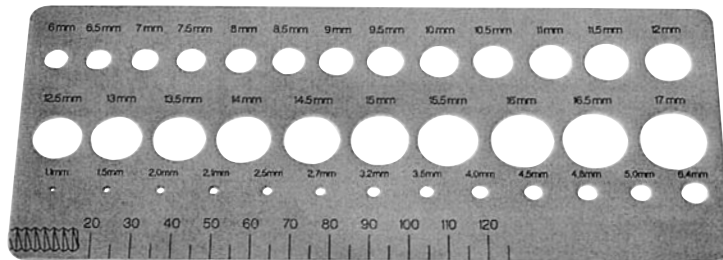
114-480-24 Guide Rod for IM Nail, 2,4 mm Length 900 mm
114-480-32 Guide Rod for IM Nail, 3,2 mm Length 900 mm



114-482-30 Guide Rod for Reamer, 3,0 mm Length 900 mm with 4,0 mm Spade Tip



114-403-14 Open End Wrench SW 17 / 14



114-465-88 Reamer / Nail and Screw Template

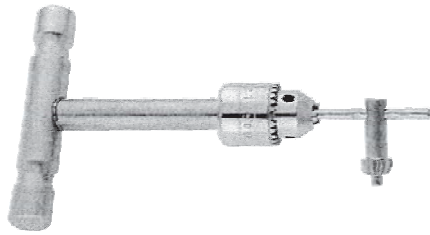


114-468-90 Nail Length Gauge

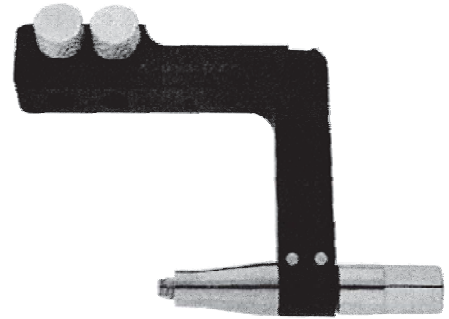


114-409-05 Supine Driver

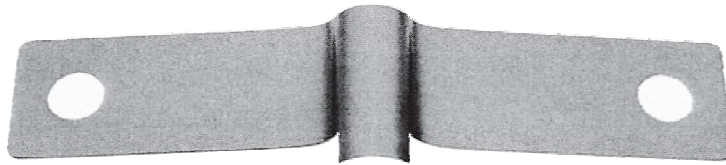
Instruments for Interlocking Nail System



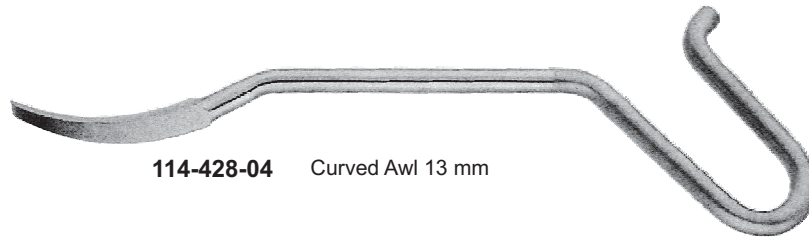
100-040-01 Reamer Guide Rod Holder



114-438-02 Proximal Drill Guide for Tibial Nails



114-432-01 Skin Protector



114-428-04 Curved Awl 13 mm



114-562-13 Tapered Reamer Cannulated Ø 13.5mm for MFN/DNS Nails

114-562-15 Tapered Reamer Cannulated Ø 15.5mm for MFN/DNS Nails



114-460-80 Green Drill Sleeve Ø 8.0 mm



114-461-21 Drill Sleeve Ø 2.1 mm

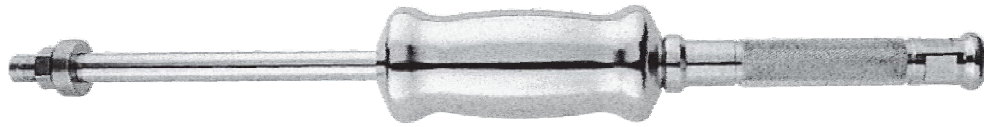
114-461-32 Drill Sleeve Ø 3.2 mm

114-461-35 Drill Sleeve Ø 3.5 mm

114-461-40 Drill Sleeve Ø 4.0 mm

114-461-48 Drill Sleeve Ø 4.8 mm

Instruments for Interlocking Nail System



114-406-02 Slide Hammer



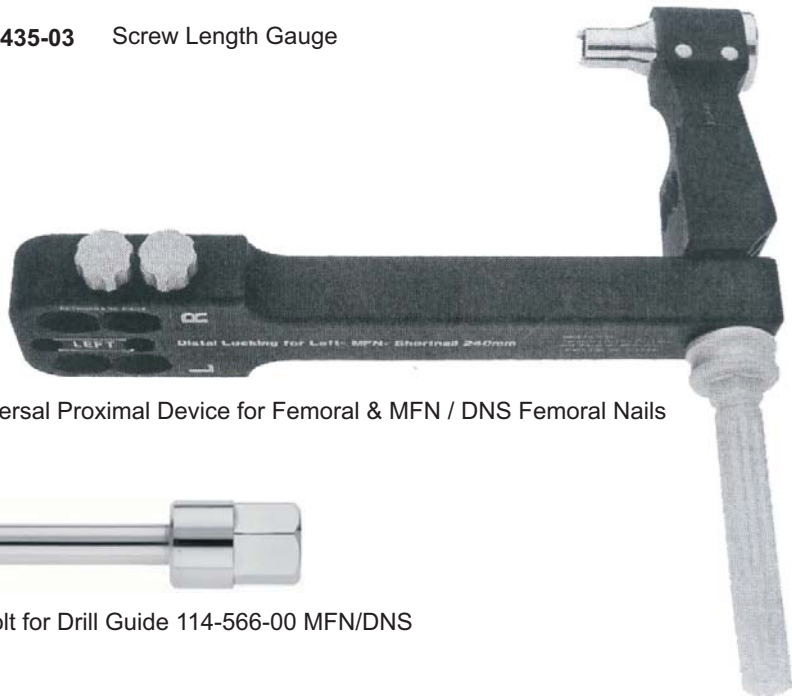
114-444-23 Tibial Extractor Bolt



114-563-00 Femoral and DNS, Femoral Nail Extractor Bolt



114-435-03 Screw Length Gauge



114-566-00 Universal Proximal Device for Femoral & MFN / DNS Femoral Nails



114-564-00 Nail Adapter Bolt for Drill Guide 114-566-00 MFN/DNS



114-567-40 Twist Drill Cannulated Ø 4.0mm, Length 305mm

114-568-48 Twist Drill Cannulated Ø 4.8mm, Length 305mm



114-569-64 MFN / DNS Reamer Ø 6.4mm

Instruments for Humeral Interlocking Nail System

(Not included in Basic Set)



114-525-02 Humeral Proximal Drill Guide



114-532-55 Adapter for Nail Driver and extractor (1-19220)



114-545-27 Humeral Drill Sleeve 2,7 mm short



114-546-60 Humeral Drill Sleeve 6,0 mm short



114-548-27 Drill Bit Dia. 2,7 Length 150 mm



114-549-25 Screw Driver for 4mm Humeral Screws

Instruments for Condylar Interlocking Nail System

(Not included in Basic Set)



114-570-00 Proximal - Distal Targeting Device for Condylar Nails



114-564-00 Nail Adapter Bolt for Drill Guide 114-566-00 MFN/DNS

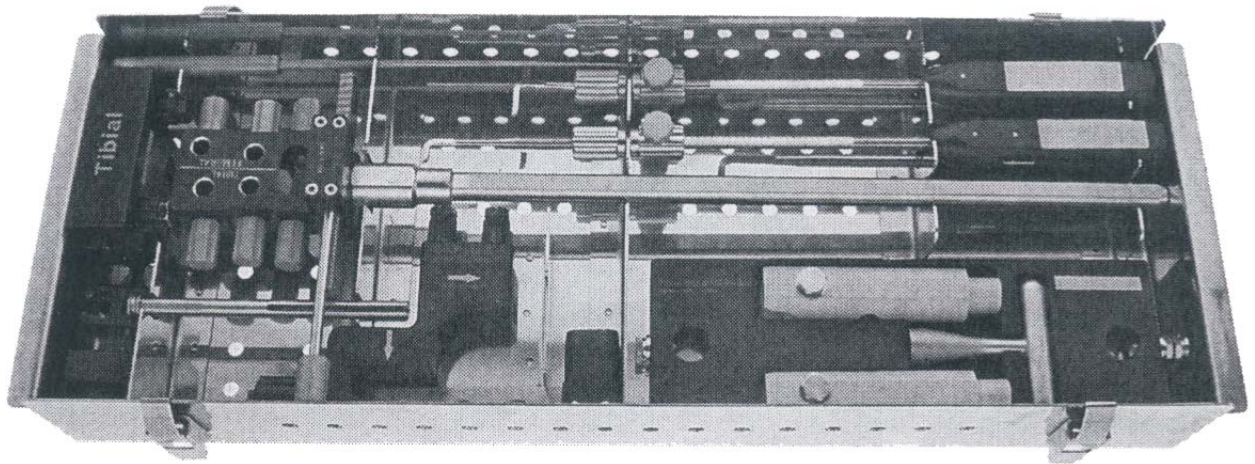
Distal Targeting Device

Target Device Independent of X-Rays with Pre-adjustment, for Distal Locking.
Simple and Multi-functional application for Femoral and Tibial Interlocking Nails.

High Precision in Interlocking. Easy to be calculate operating time.

Surgeons are serving medicine. Mostly they neglect their own health.

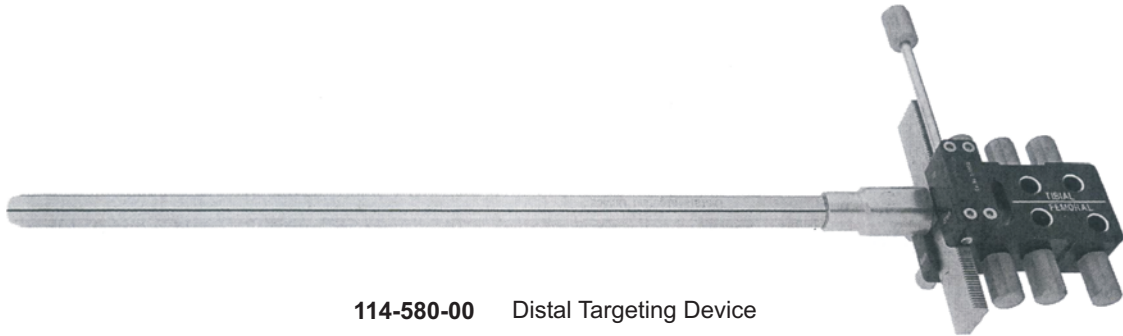
Leading scientists have discovered that radiation dosage in operating theaters is higher than the dosage received by the children and engineers of Tschernobil.



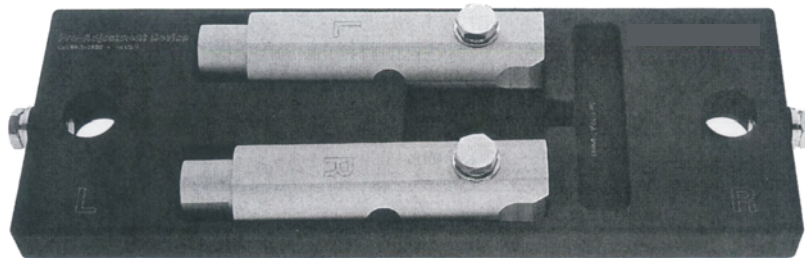
D-114-006 Distal Targeting Device Set **196-075-50 Sterilization Container**

114-580-00	Distal Targeting Device
114-581-00	Outrigger
114-582-00	Wrench SW 14
114-583-00	Pre - Adjustment Device
114-584-00	Tibia Adapter Block
114-585-00	MFN / DNS / Femoral Adapter Block
114-586-00	Fixation Hook 20 mm
114-587-00	Fixation Hook 15mm
114-588-00	Hook Impactor Sleeve
114-589-00	Hook AWL 15mm
114-590-00	Hook AWL 20mm
114-591-00	Nail Feeler

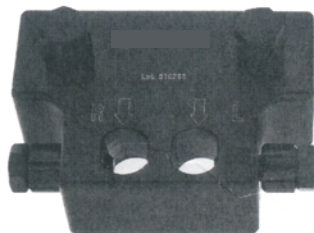
Distal Targeting Device



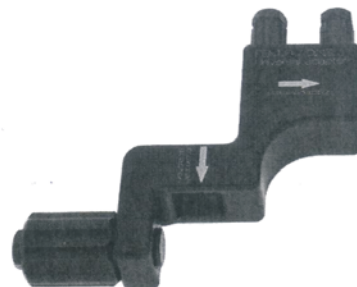
114-580-00 Distal Targeting Device



114-583-00 Pre - Adjustment Device

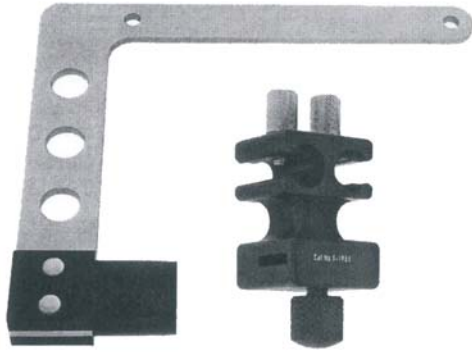


114-584-00 Tibia Adapter Block

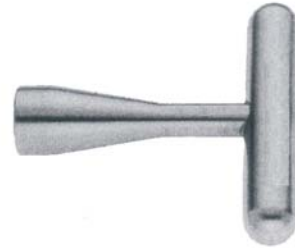


114-585-00 Femoral MFN / DNS Adapter

Distal Targeting Device



114-581-00 Outrigger



114-582-00 Wrench SW 14



114-586-00 Fixation Hook 20mm

114-587-00 Fixation hook 15mm



114-588-00 Hook Impactor Sleeve



114-589-00 Hook AWL 15mm

114-590-00 Hook AWL 20mm



114-591-00 Nail Feeler