

Spinal Surgery

Wirbelsäulenchirurgie

Cirugía de la Columna

Chirurgia Vertebrale

La chirurgie du rachis



160-003-01
160-003-02

Senn Retractor 160 mm
3 sharp prongs
3 blunt prongs

160-006-19

Little Retractor 190 mm
Blade 7 mm x 18 mm

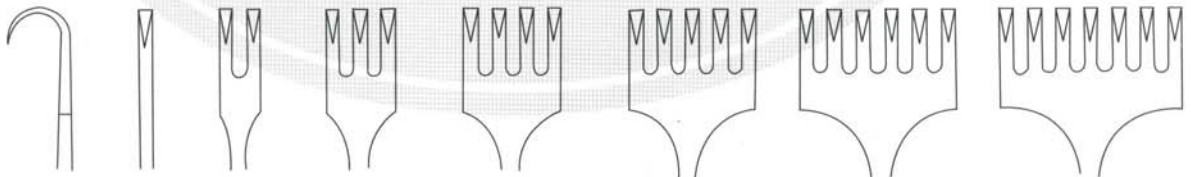
160-010-18
160-010-20
160-010-23

Blade Retractor 180 mm
18 mm x 76 mm
20 mm x 76 mm
23 mm x 76 mm

DYNAMIC

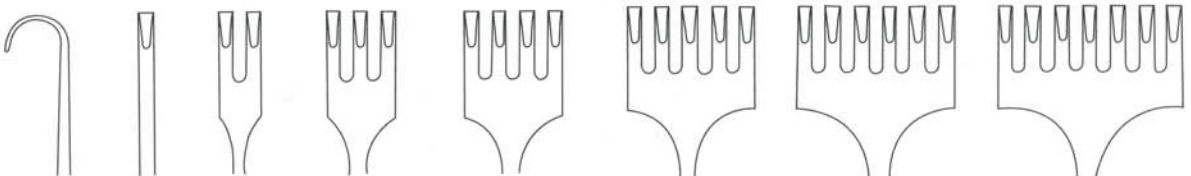


Sharp



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

Volkmann 215 mm



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 Love modif.
4 mm, 100 mm

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

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



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

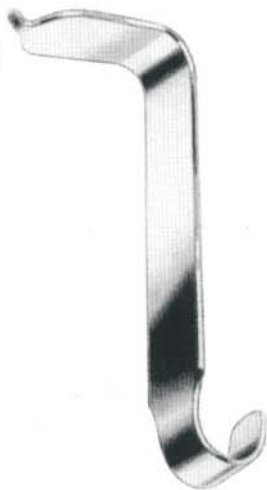


160-030-21
Cushing Decompression Retractor 215 mm
with fenestrated blade and handle
Blade 13 mm width x 22 mm



160-031-01
160-031-02

Scoville 7 mm, 240 mm
straight
carved



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



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



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



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



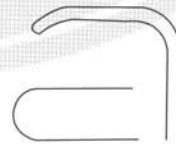
160-142-07
4 prong, sharp



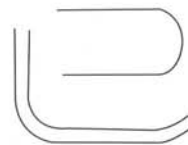
160-142-08
4 prong, blunt



160-144-01
Ragnell, 160 mm



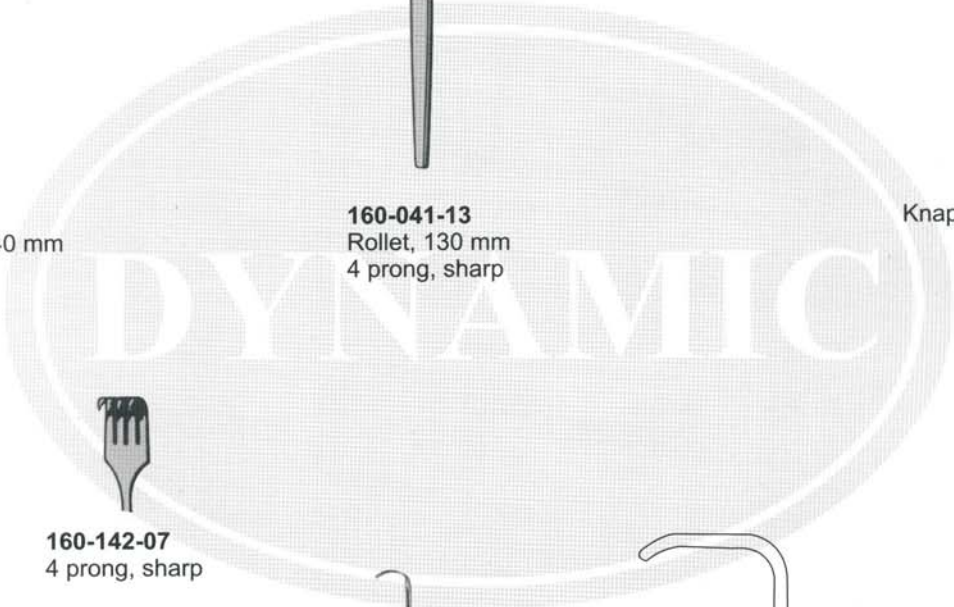
Full Size



Full Size



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



**DYNAMIC
INSTRUMENTS**

**Retractors
Wundsperrer
Separadores
Divaricatori
Rétracteurs**



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



Meyerding, 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



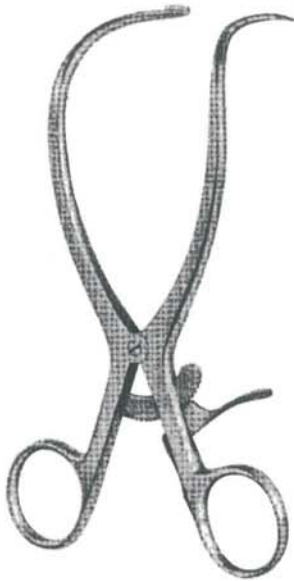
160-157-02
15 mm, 210 mm
four prong



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

**DYNAMIC
INSTRUMENTS**

**Self-Retaining Retractors
Self-Retaining Wundsperrer
Auto-retención Separadores
Self-trattenere divaricatori
Auto-maintien Rétracteurs**



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



Gelpi Retractor



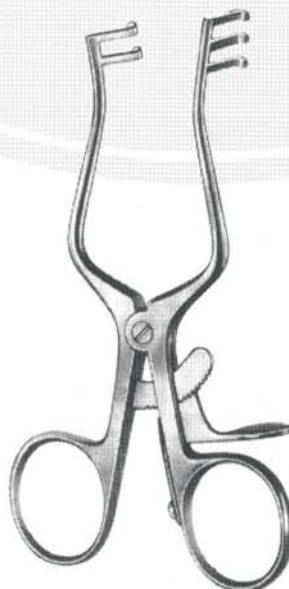
160-070-15 Gelpi Retractor 150 mm
160-070-26 Wiltse Retractor 260 mm
sharp, deep blade

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

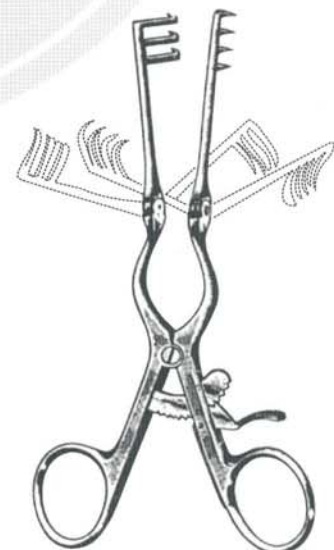
DYNAMIC



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



Weitlaner



Beckmen-Weitlaner Retractor hinged
blades, 3 x 4 prongs

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

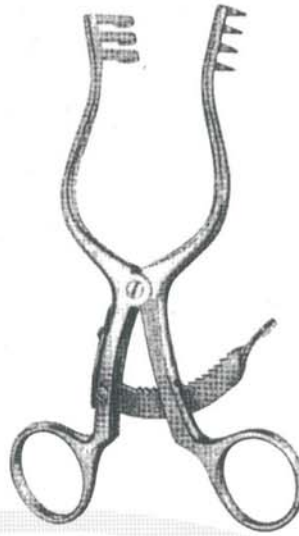
Height	Blunt	Sharp
135 mm	160-080-13	160-081-13
170 mm	160-080-17	160-081-17
210 mm	160-080-21	160-081-21
240 mm	160-080-24	160-081-24



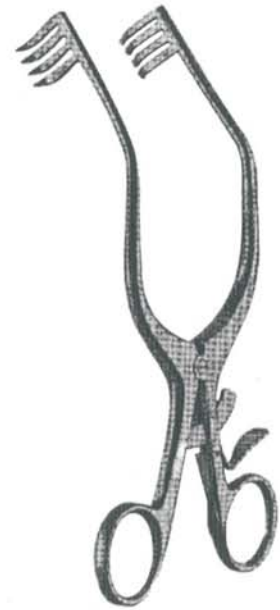
160-052-10
Jansen Retractor 100 mm
3 x 3 blunt prongs



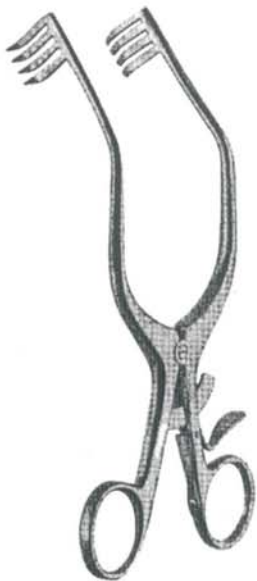
160-055-11
Snitman Endaural
Retractor 115 mm
3 x 3 sharp prongs
Blade 11mm x 15 mm



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



160-080-18
160-081-18
Adson Retractor 185 mm
4 x 4 Sharp Prong
Blade 18 x 18 mm
Straight
angled



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



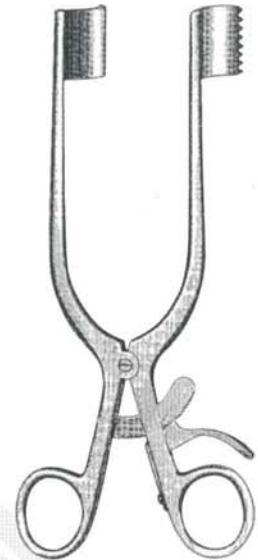
160-089-01
160-089-02
160-089-05
160-089-06
Adson, 265 mm
5 x 6 prongs
blade 35 mm deep
sharp straight
blunt straight
sharp hinged
blunt hinged



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



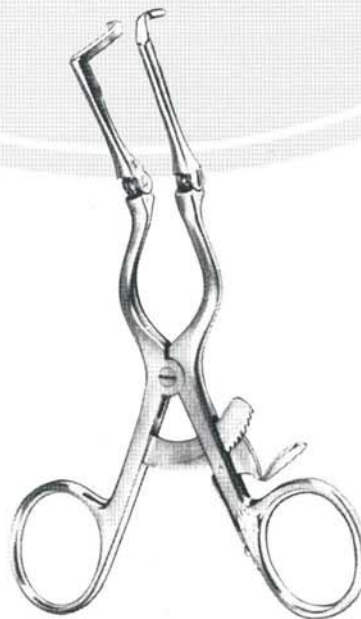
160-093-04 Beckmann - Adson
310 mm, 4 x 4 Prongs
sharp blades 25 mm
160-093-08 blunt blades 25 mm
160-093-12 sharp blades 44 mm
160-093-16 blunt blades 44 mm



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



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



160-098-13
Cervical Tissue Retractor
130 mm



160-101-28
Charnley, 280 mm



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



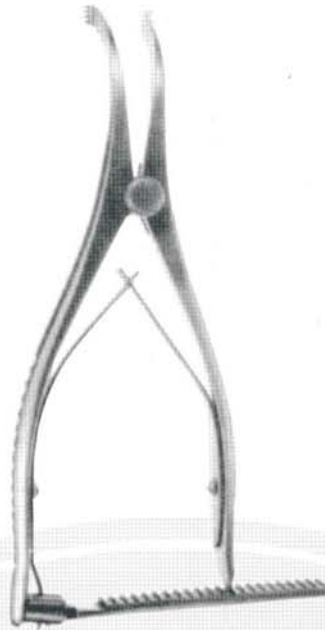
160-107-07 Cloward 250 mm
(with snap lock)
Frame only
160-107-00 complete with 7 blades
160-107-03 complete with 7 toothed blades
(30 mm - 60 mm)



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



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

DYNAMIC



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



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



160-143-01 Casper Retractor for Ventral cervical fusion frame only

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



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



	Blade Lengths
Medial Blades width 20 mm	
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



	Blade Lengths
Lateral Blades width 20 mm	
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

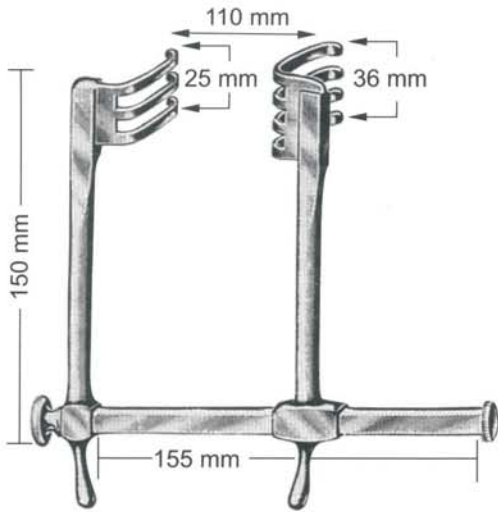


	Blade Lengths
Blunt Blades width 20 mm	
160-145-45	45 mm
160-145-50	50 mm
160-145-55	55 mm
160-145-60	60 mm
160-145-65	65 mm

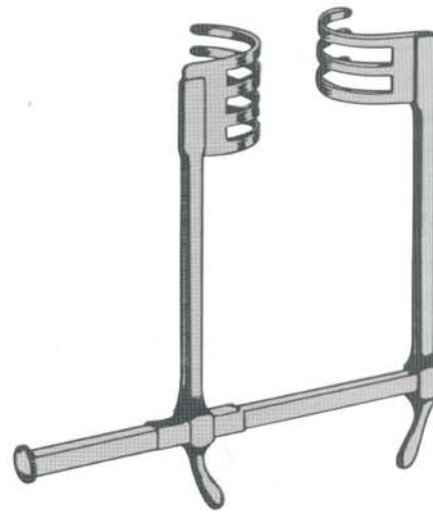


Casper distractor for ventral cervical vertebral body fusion

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



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



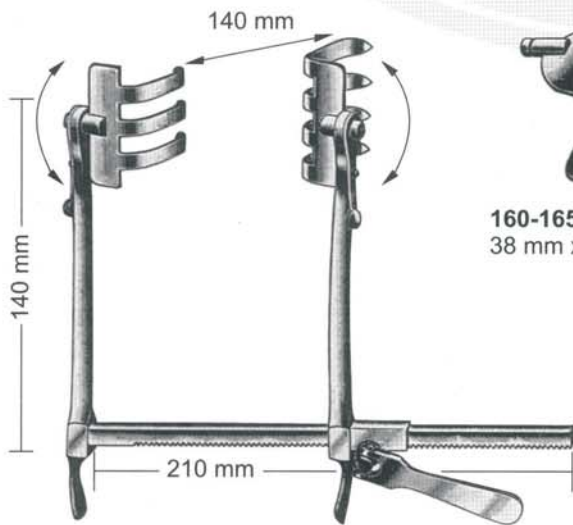
160-165-03
28 mm x 40 mm



160-165-04
38 mm x 62 mm



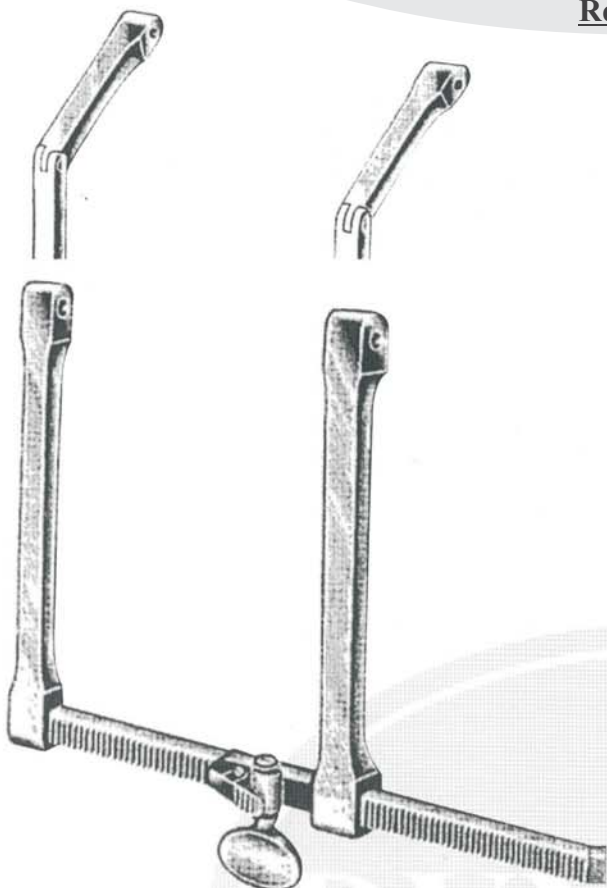
160-167-03
40 mm x 25 mm
Blade only, 3 prong



160-165-21 Scoville- Richter



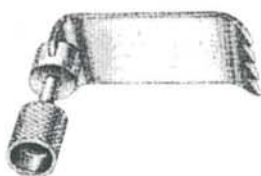
160-167-00 Sheldon
complete with 2 toothed blades
and 1 3-pronged blade



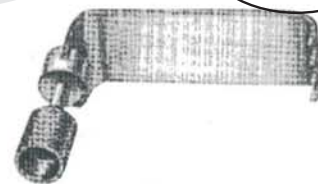
160-170-18 Scoville Hemilaminectomy Retractor Body
160-171-18 Haverfield-Scoville Hemilaminectomy Retractor Body (hinged)



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



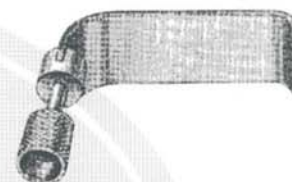
160-174-01 Hibbs blades 25 mm width x 51 mm depth
160-174-02 51 mm width x 50 mm depth
160-174-03 25 mm width x 38 mm depth
160-174-04 38 mm width x 38 mm depth
160-174-05 25 mm width x 76 mm depth
160-174-06 38 mm width x 76 mm depth
160-174-07 51 mm width x 76 mm depth
160-174-08 25 mm width x 102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



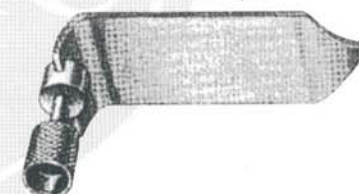
160-175-01 Scoville Blades, solid 25 mm width x 64 mm depth
160-175-02 51 mm width x 64 mm depth
160-175-03 29 mm width x 67 mm depth
160-175-04 25 mm width x 89 mm depth



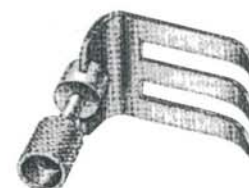
160-176-01 Scoville Blades, 4 prong 38 mm width x 41 mm depth
160-176-02 48 mm width x 67 mm depth



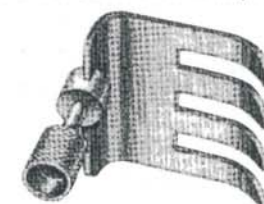
160-177-01 Meyerding Blades 25 mm width x 57 mm depth
160-177-02 25 mm width x 67 mm depth
160-177-03 51 mm width x 89 mm depth



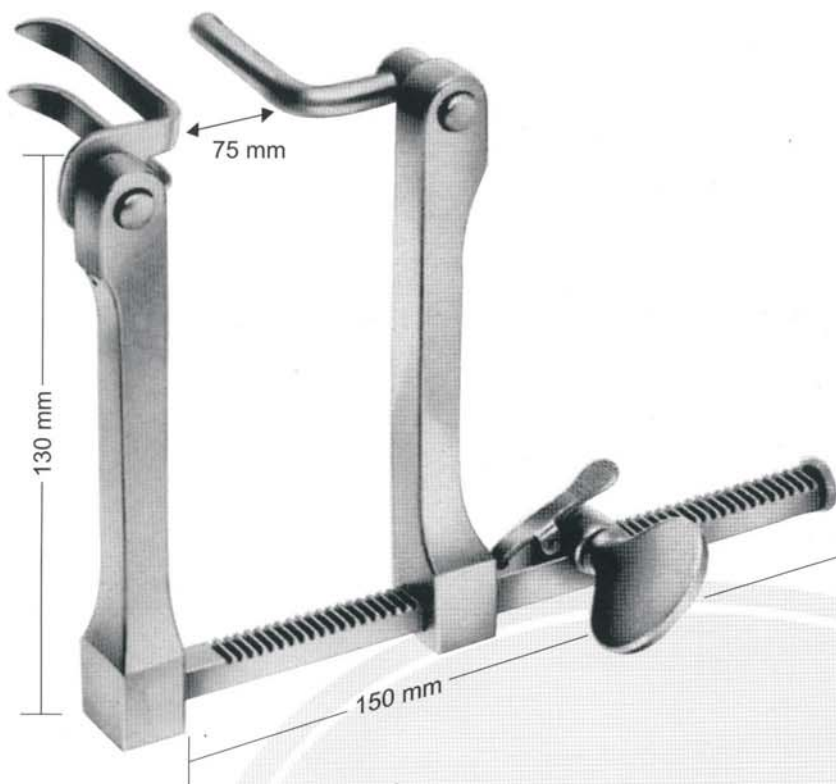
160-178-01 Taylor Spinal Blades 32 mm width x 76 mm depth
160-178-02 32 mm width x 102 mm depth



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



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



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

**DYNAMIC
INSTRUMENTS**

**Dura Separators & Dissectors
Dura Separator & Dissektoren
Dura Separator & dissector
Dura separatore & dissettori
Séparateur Dura & Dissecteurs**



160-204-15
Frazier
150 mm



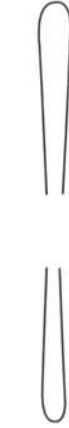
160-206-45
Hoen, 150 mm
90°



160-210-18
Horsley
200 mm



160-218-01
wide

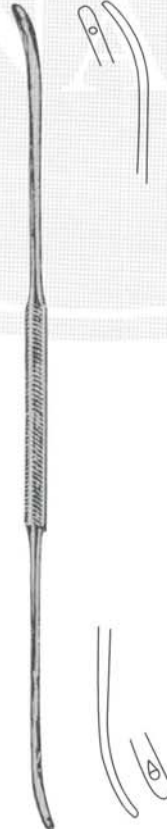


160-218-02
narrow

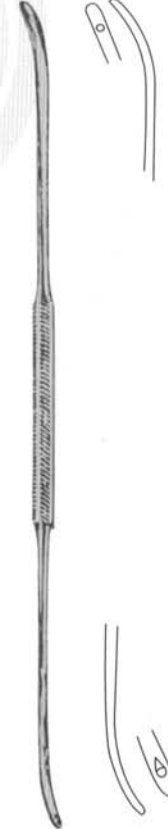
Toennis
240 mm



160-219-04
Davis
4 mm, 245 mm



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

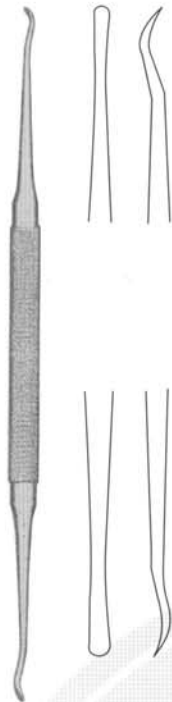


160-223-18
160-223-24
Olivecrone
180 mm
240 mm
heavy pattern

DYNAMIC



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



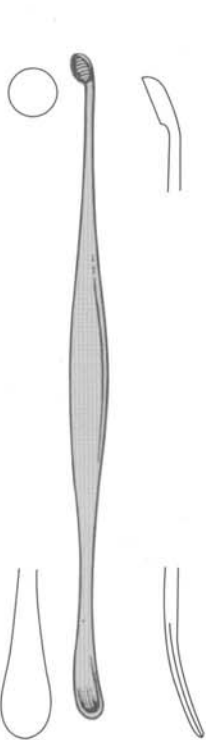
160-228-18
Freer 185 mm
double ended
5 mm sharp end
5 mm blunt end



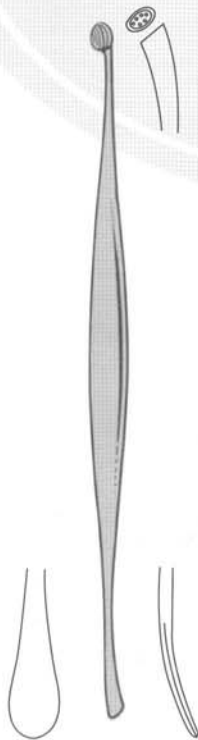
160-229-22
Woodson Elevator/Spatula
225 mm double ended
3 mm semi-blunt ends



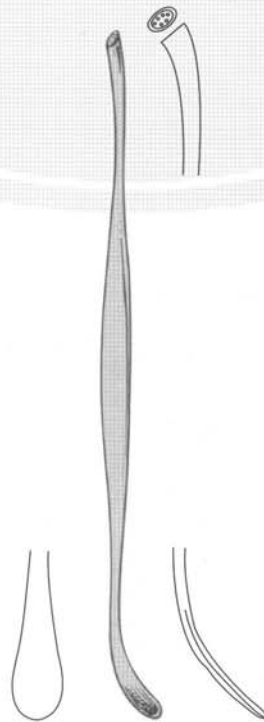
160-230-17
Woodson Dural
Separator/Packer
175 mm double ended
with grooved blade
3 mm blunt end



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



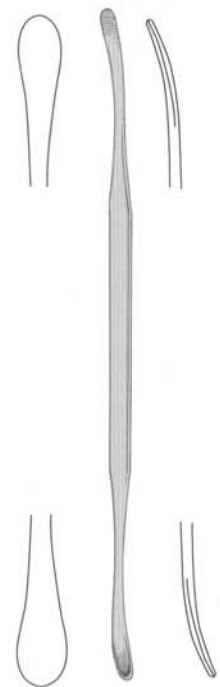
160-233-02
style #2
185 mm double ended



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



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



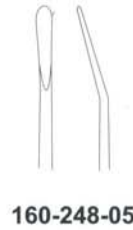
160-236-05
style #5
185 mm double ended



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

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



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



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



160-262-01 Sharp 7 mm straight
160-262-02 blunt 7 mm curved
160-262-03 semi-sharp 7 mm straight
160-262-04 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
195 mm blunt edge
160-264-02 sharp edge



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



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



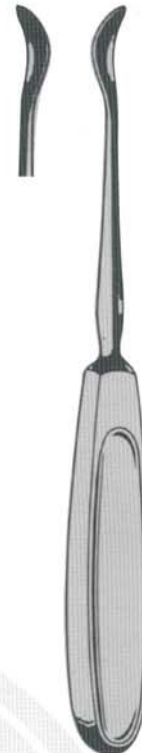
100-727-14
14 mm, 200 mm
sharp, curved



160-271-07 Hoehn
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



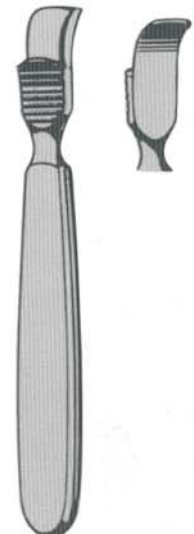
160-273-19 Cushing, 190 mm
left
160-274-19 right



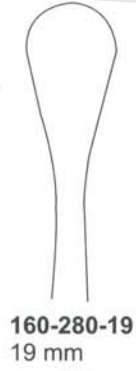
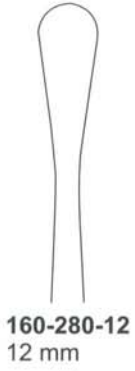
160-275-17
Adson, 170 mm



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



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



Cobb Spinal Elevator 238 mm sharp with hexagonal handle

160-282-19 Harrington Spinal Elevator 300 mm Sharp 19 mm tip width



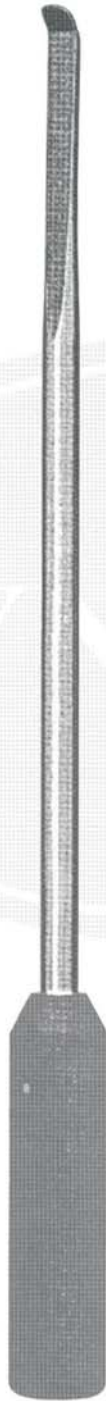
160-284-07 Cobb modif. 28 mm 7 mm
160-284-09 9 mm
160-284-11 11 mm
Round Handle



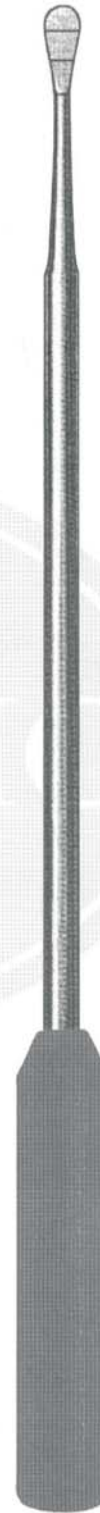
160-285-04 Cobb modif. 28 mm 4 mm
160-285-06 6 mm
160-285-08 8 mm
Round Handle



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



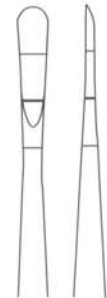
Rib Elevator endoscopic
425 mm Sharp with fiber handle
9 mm radius tip
160-290-45 angled 45°
160-290-90 angled 90°



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





Hibbs Chisel		225 mm straight		225 mm curved	
160-350-06	6 mm	160-351-06	6 mm		
160-350-09	9 mm	160-351-09	9 mm		
160-350-12	12 mm	160-351-12	12 mm		
160-350-15	15 mm	160-351-15	15 mm		
160-350-18	18 mm	160-351-18	18 mm		
160-350-20	20 mm	160-351-20	20 mm		
160-350-25	25 mm	160-351-25	25 mm		
160-350-30	30 mm	160-351-30	30 mm		
160-350-35	35 mm	160-351-35	35 mm		
160-350-40	40 mm	160-351-40	40 mm		

Osteotomes		225 mm straight		225 mm curved	
160-360-06	6 mm	160-361-06	6 mm		
160-360-09	9 mm	160-361-09	9 mm		
160-360-12	12 mm	160-361-12	12 mm		
160-360-15	15 mm	160-361-15	15 mm		
160-360-18	18 mm	160-361-18	18 mm		
160-360-20	20 mm	160-361-20	20 mm		
160-360-25	25 mm	160-361-25	25 mm		
160-360-30	30 mm	160-361-30	30 mm		
160-360-35	35 mm	160-361-35	35 mm		
160-360-40	40 mm	160-361-40	40 mm		

Hibbs Chisel / Osteotomes



Cobb Chisel		275 mm straight		275 mm curved	
160-354-06	6 mm	160-355-06	6 mm		
160-354-09	9 mm	160-355-09	9 mm		
160-354-12	12 mm	160-355-12	12 mm		
160-354-15	15 mm	160-355-15	15 mm		
160-354-18	18 mm	160-355-18	18 mm		
160-354-25	25 mm	160-355-25	25 mm		
160-354-35	35 mm	160-355-35	35 mm		

Osteotomes		275 mm straight		275 mm curved	
160-364-06	6 mm	160-365-06	6 mm		
160-364-09	9 mm	160-365-09	9 mm		
160-364-12	12 mm	160-365-12	12 mm		
160-364-15	15 mm	160-365-15	15 mm		
160-364-18	18 mm	160-365-18	18 mm		
160-364-25	25 mm	160-365-25	25 mm		
160-364-35	35 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



Cobb
240 mm



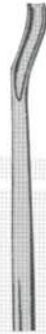
160-375-01
Straight



160-375-02
Slightly Curved



160-375-03
Strongly Curved



160-375-04
Curved down



160-375-05
Straight



160-375-06
Slightly Curved



Cobb
240 mm



160-375-07
Strongly Curved



160-375-08
Curved down



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



Lexer
 220 mm
100-656-07 7 mm
100-656-10 10 mm
100-656-12 12 mm
100-656-15 15 mm
100-656-20 20 mm
100-656-25 25 mm
100-656-30 30 mm

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

Lexer
 220 mm
100-657-07 7 mm
100-657-10 10 mm
100-657-12 12 mm
100-657-15 15 mm
100-657-20 20 mm
100-657-25 25 mm
100-657-30 30 mm

Lexer modif.
 290 mm
100-659-07 7 mm
100-659-10 10 mm
100-659-12 12 mm
100-659-15 15 mm
100-659-20 20 mm
100-659-25 25 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



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

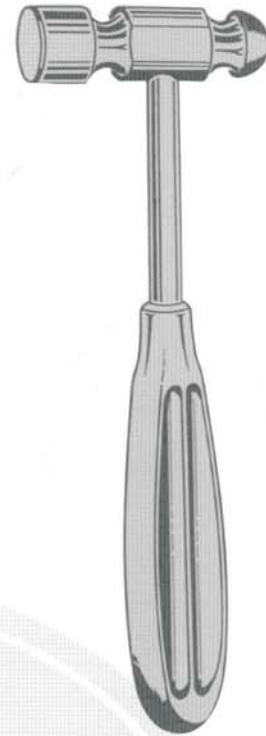
100-642-06	6 mm
100-642-09	9 mm
100-642-12	12 mm
100-642-15	15 mm
100-642-20	20 mm
100-642-25	25 mm
100-642-30	30 mm



100-605-28 Ø 28 mm, 230 mm



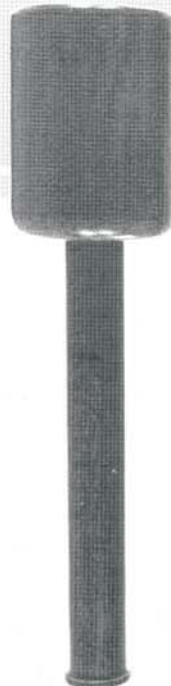
100-616-24 Ø 30 mm + 42 mm
240 mm



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



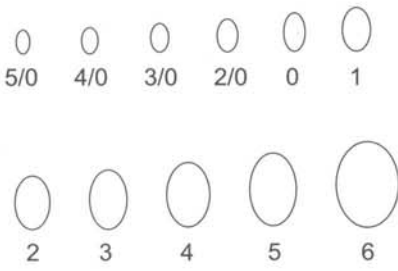
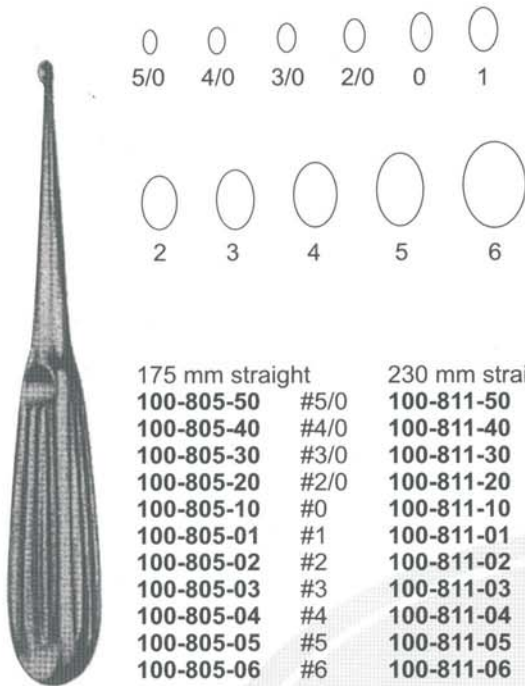
100-609-25
42 mm, 250 mm
Material Ferozell can be sterilized
in an autoclave at 3 bar overpressure
(143°C)



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

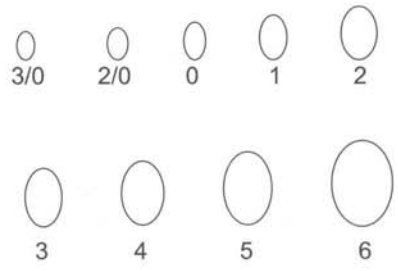
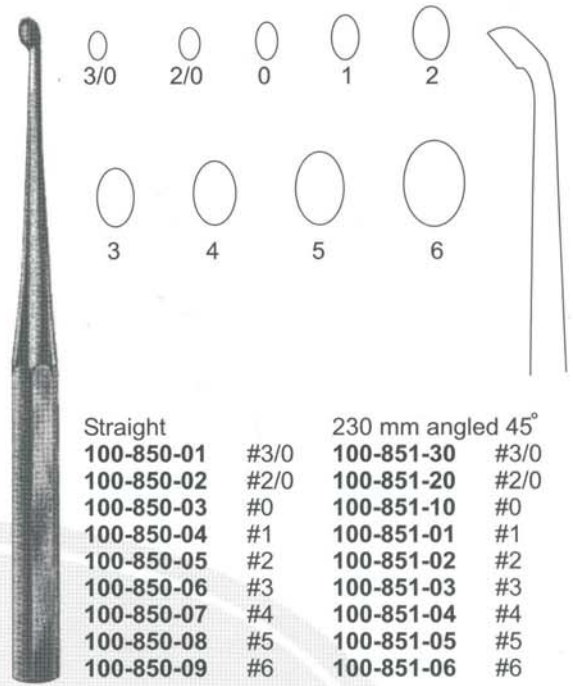


100-612-21 30 mm / 215 g
with interchangeable
Plastic disks 250 mm
100-613-02 Pair of spare disks



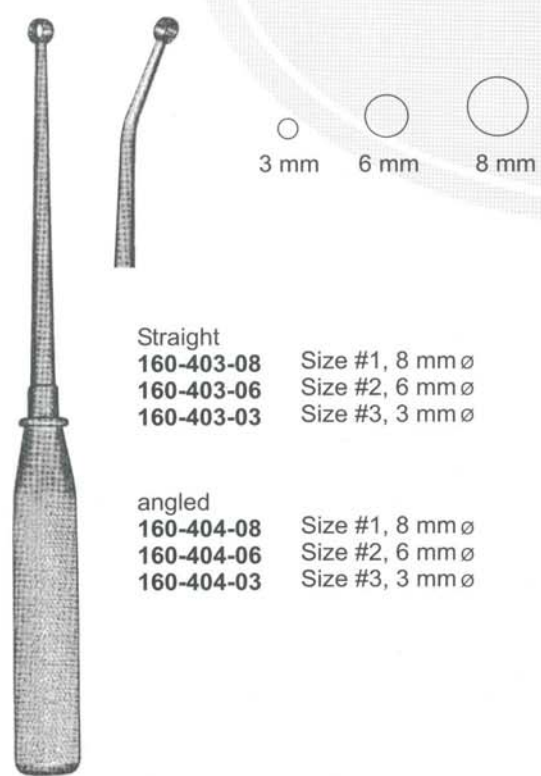
175 mm straight		230 mm straight	
100-805-50	#5/0	100-811-50	#5/0
100-805-40	#4/0	100-811-40	#4/0
100-805-30	#3/0	100-811-30	#3/0
100-805-20	#2/0	100-811-20	#2/0
100-805-10	#0	100-811-10	#0
100-805-01	#1	100-811-01	#1
100-805-02	#2	100-811-02	#2
100-805-03	#3	100-811-03	#3
100-805-04	#4	100-811-04	#4
100-805-05	#5	100-811-05	#5
100-805-06	#6	100-811-06	#6

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



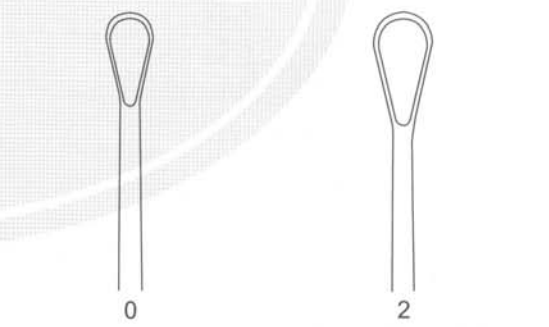
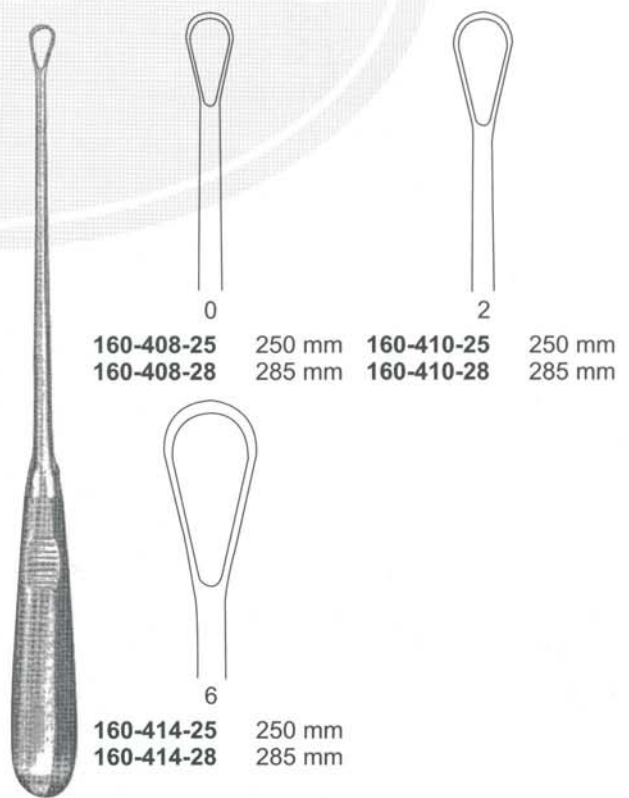
Straight		230 mm angled 45°	
100-850-01	#3/0	100-851-30	#3/0
100-850-02	#2/0	100-851-20	#2/0
100-850-03	#0	100-851-10	#0
100-850-04	#1	100-851-01	#1
100-850-05	#2	100-851-02	#2
100-850-06	#3	100-851-03	#3
100-850-07	#4	100-851-04	#4
100-850-08	#5	100-851-05	#5
100-850-09	#6	100-851-06	#6

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



Straight	
160-403-08	Size #1, 8 mm ø
160-403-06	Size #2, 6 mm ø
160-403-03	Size #3, 3 mm ø
angled	
160-404-08	Size #1, 8 mm ø
160-404-06	Size #2, 6 mm ø
160-404-03	Size #3, 3 mm ø

Cone Ring Curette 230 mm with knurled handle, fenestrated cup

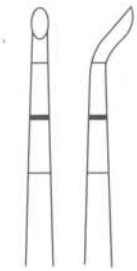


160-408-25	250 mm	160-410-25	250 mm
160-408-28	285 mm	160-410-28	285 mm
6		6	
160-414-25	250 mm		
160-414-28	285 mm		

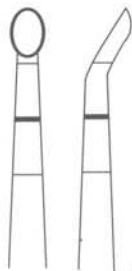
Ring Curette hollow handle, with fenestrated cup



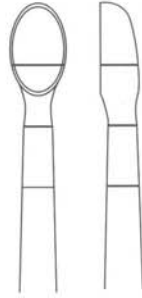
Phenolic handles
are autoclavable
to 290 F[°](143 C[°])



160-420-03
430 mm reverse angled 30°
3 mm x 6 mm cup



160-422-04
500 mm reverse angled 40°
6 mm x 9 mm cup



160-425-09
Scoville Curette endoscopic
500 mm graduated with fiber handle
9 mm x 15 mm cup straight



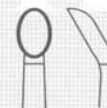
160-427-30
430 mm angled 30°
2 mm x 4 mm cup



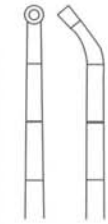
160-429-40
430 mm angled 40°
2 mm x 4 mm cup



160-432-30
500 mm angled 30°
3 mm x 6 mm cup



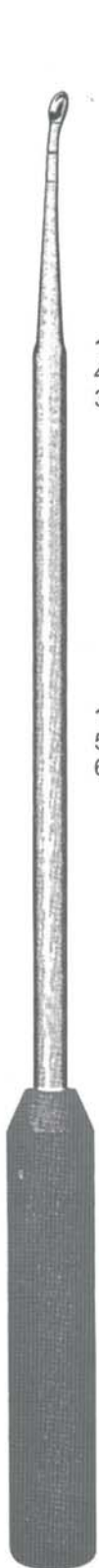
160-434-40
500 mm angled 40°
6 mm x 9 mm cup



160-437-30
430 mm angled 30°
3 mm diameter



160-439-40
500 mm angled 40°
3 mm diameter



Epstein Curette endoscopic
graduated with fiber handle



160-425-09
Scoville Curette endoscopic
500 mm graduated with fiber handle
9 mm x 15 mm cup straight



Brun
Curette endoscopic
graduated with
fiber handle



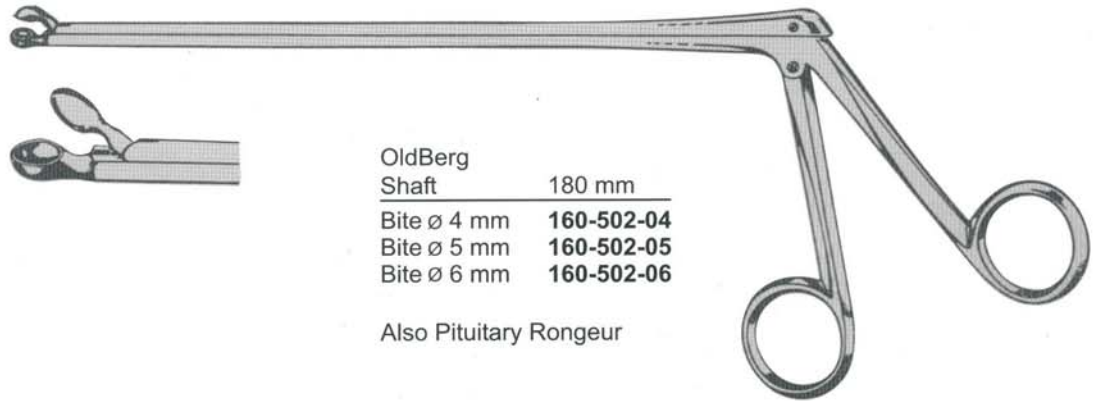
Cone Ring Curette endoscopic
graduated with fiber handle

**DYNAMIC
INSTRUMENTS**

**Intervertebral Disc Rongeur
Zwischenwirbelscheiben Disc Rongeur
Intervertebral Pinzas Disc
Intervertebrale Disc Rongeur
Rongeur Disc intervertébral**

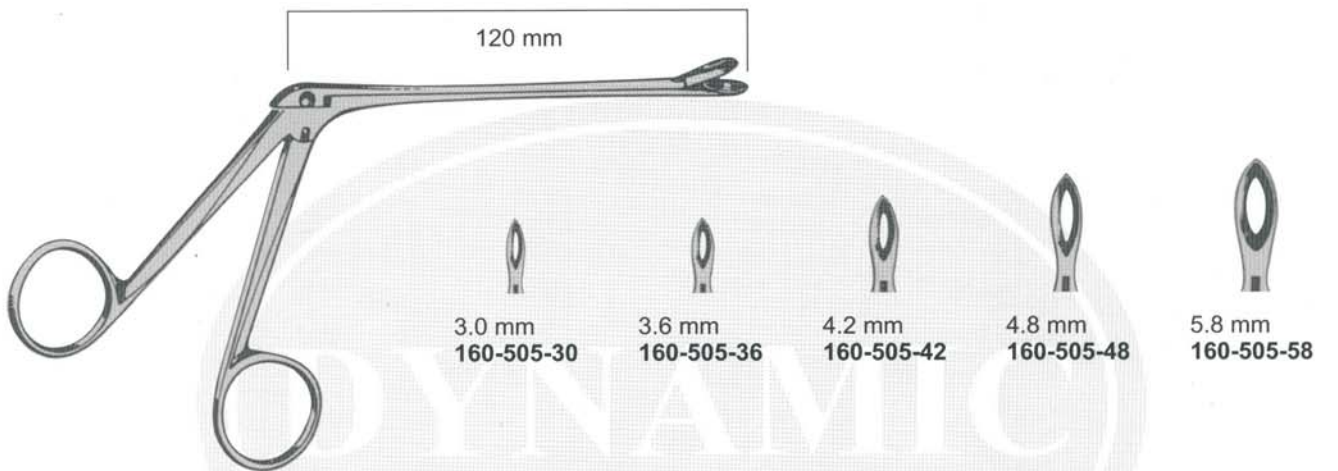


4 mm 5 mm 6 mm



OldBerg
Shaft 180 mm
Bite \varnothing 4 mm **160-502-04**
Bite \varnothing 5 mm **160-502-05**
Bite \varnothing 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

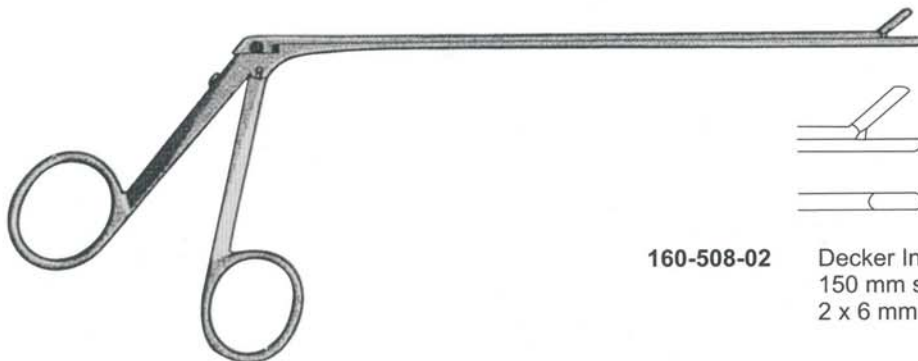
160-506-04
small
4 x 9 mm bite

160-506-05
Medium
5 x 10 mm bite

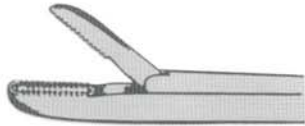
160-506-06
large
6 x 11 mm bite



Wilde Intervertebral Disc Rongeur
125 mm shaft
fenestrated jaws straight

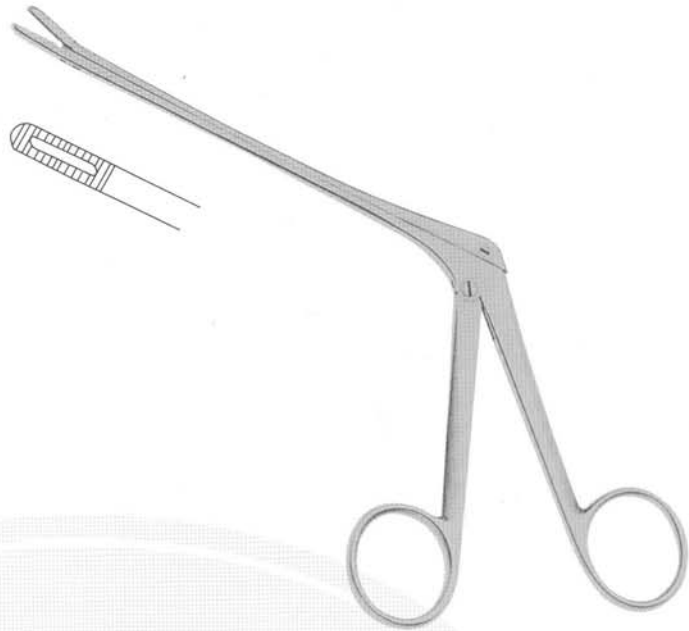


160-508-02 Decker Intervertebral Disc Rongeur
150 mm shaft
2 x 6 mm bite straight

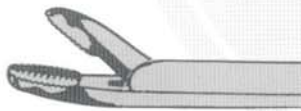


Straight

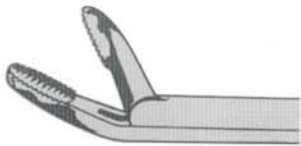
Shaft	130 mm	180 mm
Bite 2 x 10 mm	160-511-02	160-512-02
Bite 3 x 10 mm	160-511-03	160-512-03
Bite 4 x 10 mm	160-511-04	160-512-04



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

DYNAMIC

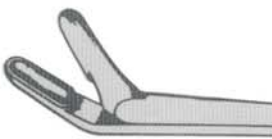
**Intervertebral Disc Rongeur
Zwischenwirbelscheiben Disc Rongeur
Intervertebral Pinzas Disc
Intervertebrale Disc Rongeur
Rongeur Disc intervertébral**



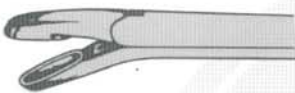
2x10 3x10 4x10



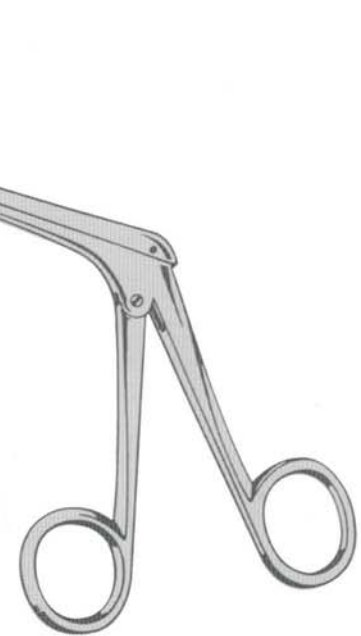
Straight Shaft	130 mm	180 mm
Bite 2 x 10 mm	160-517-02	160-520-02
Bite 3 x 10 mm	160-517-03	160-520-03
Bite 4 x 10 mm	160-517-04	160-520-04



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



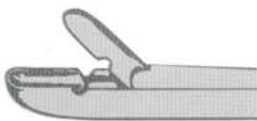
Angled - down Shaft	130 mm	180 mm
Bite 2 x 10 mm	160-519-02	160-522-02
Bite 3 x 10 mm	160-519-03	160-522-03
Bite 4 x 10 mm	160-519-04	160-522-04



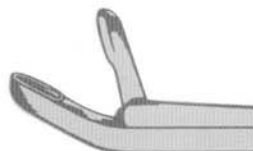
Cushing
Love - Gruenwald
Spurling



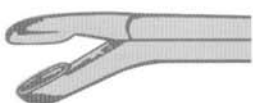
2x10 3x10 4x10



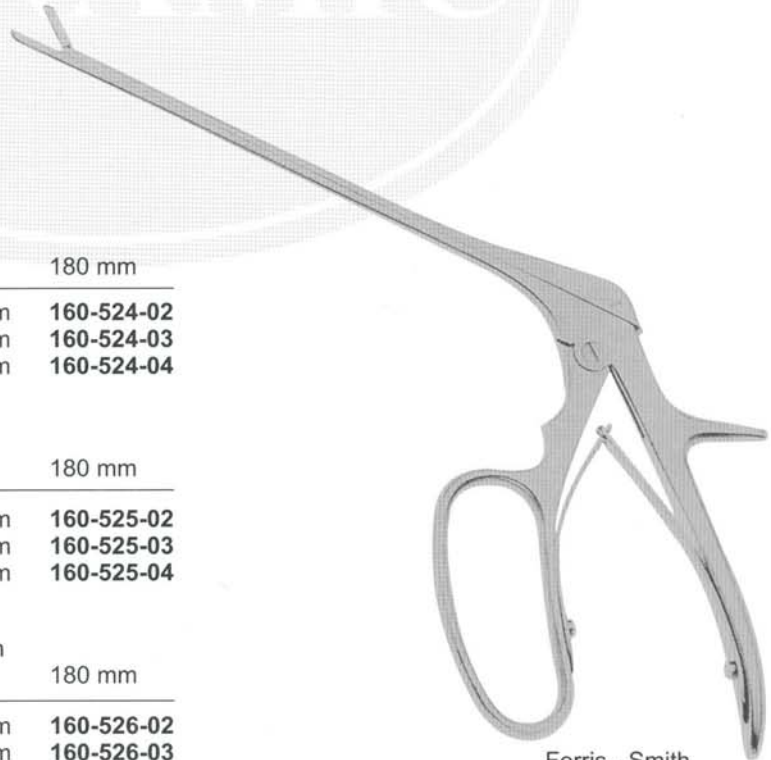
Straight Shaft	180 mm
Bite 2 x 10 mm	160-524-02
Bite 3 x 10 mm	160-524-03
Bite 4 x 10 mm	160-524-04



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



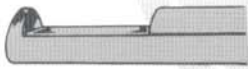
Angled - down Shaft	180 mm
Bite 2 x 10 mm	160-526-02
Bite 3 x 10 mm	160-526-03
Bite 4 x 10 mm	160-526-04



Ferris - Smith



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

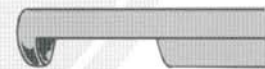
□	1 mm bite up	
	160-535-01	180 mm

□	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

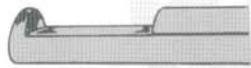
□	3 mm bite down	
	160-538-03	180 mm

□	4 mm bite down	
	160-538-04	180 mm

□	5 mm bite down	
	160-538-05	180 mm



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



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

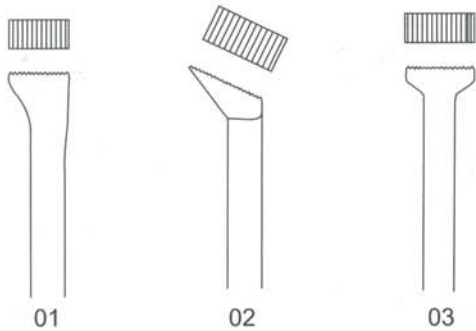
4.0 mm

Citelli

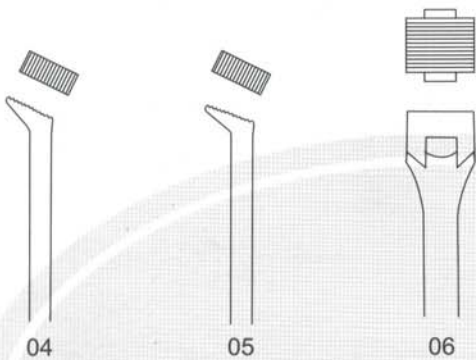
160-562-01 1.0 mm

160-562-02 2.5 mm

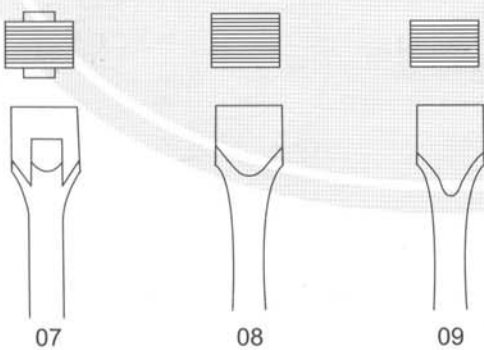
160-562-03 4.0 mm



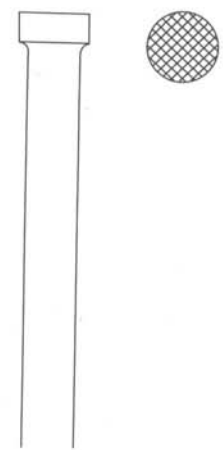
160-603-01 6 mm x 12 mm
160-603-02 7 mm x 16 mm
160-603-03 6 mm x 13 mm



160-603-04 4 mm x 10 mm
160-603-05 4 mm x 10 mm
160-603-06 10 mm x 13 mm



160-603-07 7 mm x 13 mm
160-603-08 10 mm x 13 mm
160-603-09 7 mm x 13 mm



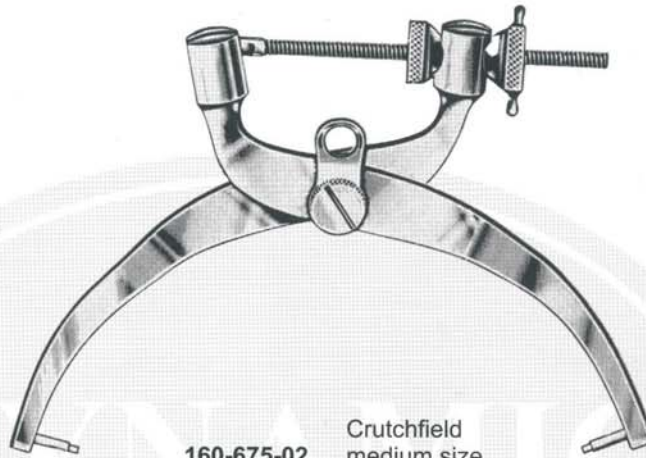
- | | | | | |
|-------------------|---|--------|-------------------|----------------------|
| 160-603-01 | Lumbar And Cervical Impactors and Drivers serrated tips | | 160-607-10 | Bone Tamp endoscopic |
| 160-603-02 | Impactor, standard offset, | 215 mm | | 430 mm |
| 160-603-03 | Impactor, central canal, | 215 mm | | 10 mm diameter |
| 160-603-04 | Impactor, lateral narrow, | 215 mm | | |
| 160-603-05 | Impactor, micro offset, | 180 mm | | |
| 160-603-06 | Impactor, micro lateral, | 180 mm | | |
| 160-603-07 | Graft Driver, lumbar, guarded, | 215 mm | | |
| 160-603-08 | Graft Driver, anterior, guarded, | 215 mm | | |
| 160-603-09 | Graft Driver, lumbar, unguarded, | 215 mm | | |
| 160-603-09 | Graft Driver, anterior, unguarded, | 215 mm | | |

**DYNAMIC
INSTRUMENTS**

Skull Traction Tongs For Vertebrae Treatment
Skull Traction Zangen für Vertebrae Behandlung
Cráneo pinzas de tracción para el tratamiento Vertebrae
Pinze trazione Skull per il trattamento Vertebrae
Tongs Traction crâne pour le traitement Vertebrae



160-675-01 Crutchfield
Small size



160-675-02 Crutchfield
medium size



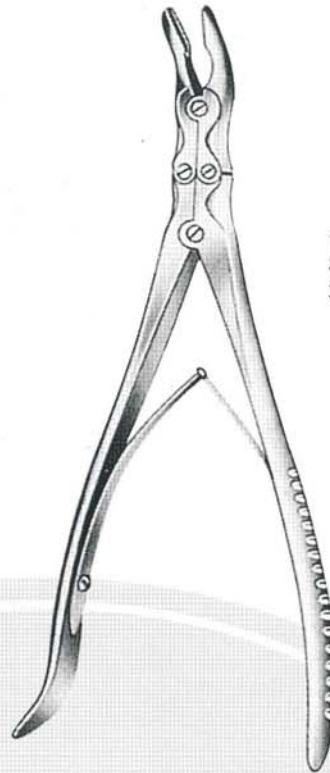
160-678-03 Crutchfield
Large Size



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



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



Smith-peterson Laminectomy Rongeur 235 mm

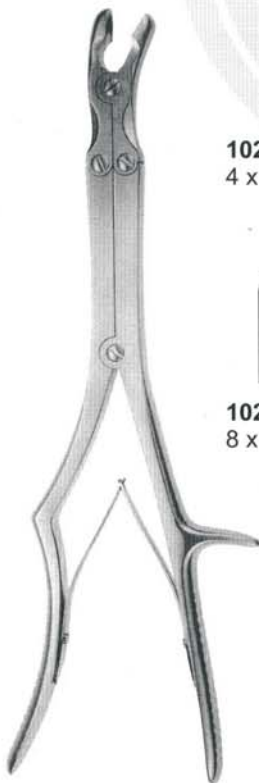
102-295-01
Straight
3 x 16 mm bite



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

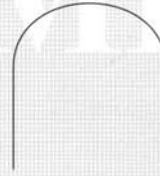
102-298-04
4 x 16 mm bite



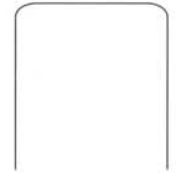
102-298-04
5 x 16 mm bite



20 mm
100-265-30



20 mm
100-266-30



102-298-08
8 x 16 mm bite



102-298-12
12 x 16 mm bite



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