

Neurosurgery

Neurochirurgie

Neurocirugía

Neurochirurgia

Neurochirurgie

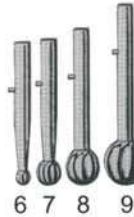


180-003-00
Brace only

Burs, Drills and
Trepine only



180-004-01 Twist Drills
Fig. 1 - Ø 2.5 mm
180-004-02 Fig. 2 - Ø 3.0 mm
180-004-03 Fig. 3 - Ø 3.5 mm
180-004-04 Fig. 4 - Ø 4.0 mm



180-004-05 Trepine
Fig. 5 - Ø 10 mm
180-004-06 Cutting Burrs
Fig. 6 - Ø 5 mm
180-004-07 Fig. 7 - Ø 8 mm
180-004-08 Fig. 8 - Ø 12 mm
180-004-09 Fig. 9 - Ø 16 mm



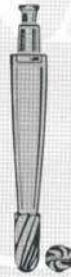
100-045-01
Bunnell
with channel for k-wires
up to 3 mm diam.

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

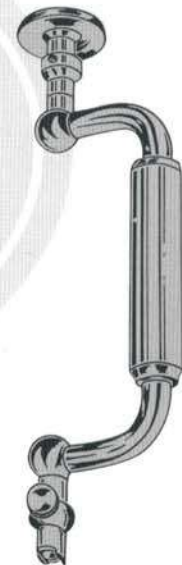
180-004-00 Set of 9 Drills, Burrs and
Trepine Fig. 1-9



100-050-10
Cerebella extension only



100-050-09 Hudson
Ø 9 mm
100-050-02 Hudson
Ø 14 mm
Conical Burr



100-050-00
Hudson brace



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



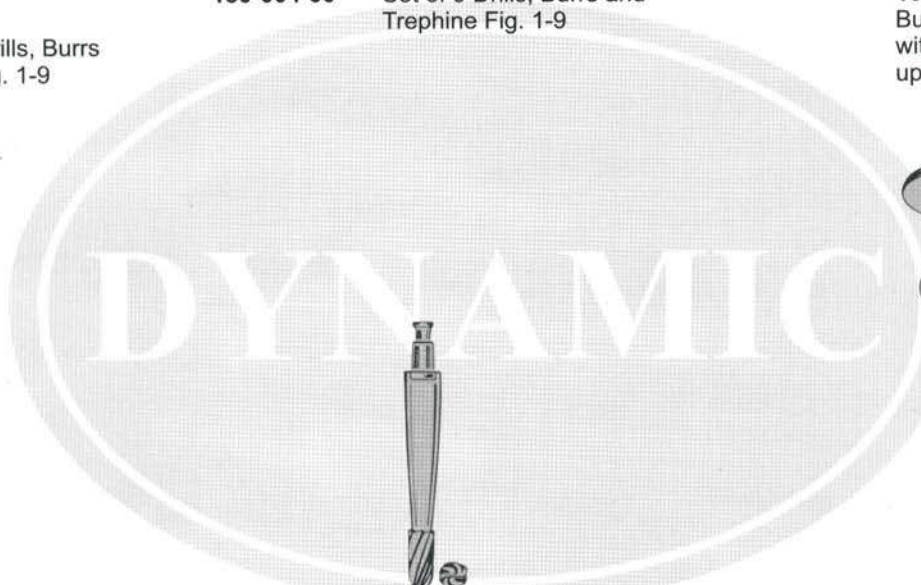
100-050-07
Hudson
Ø 14 mm
perforator Drill

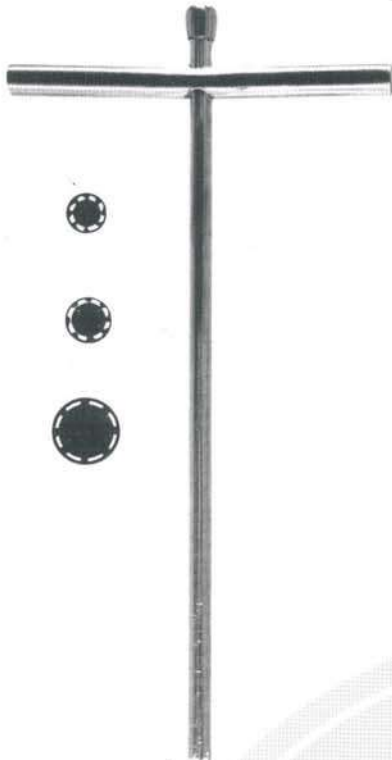


100-050-13
McKenzie
Ø 13 mm
perforator Drill



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





180-012-50 Michele
Ø5.0 mm
180-012-55 Ø5.5 mm
180-012-80 Ø8.0 mm
Vertebral Body Biopsy Trephine



180-013-04
Adson
135 mm
Ø4 mm, 12 Fr.



Frazier
125 mm
180-015-06 Ø2.0 mm, 6 Fr.
180-015-08 Ø2.5 mm, 8 Fr.
180-015-10 Ø3.0 mm, 10 Fr.
180-015-12 Ø2.5 mm, 12 Fr.

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



90 mm
180-018-01 Ø1.8 mm + 1.8 mm
180-018-02 Ø2.5 mm + 2.0 mm
180-018-03 Ø3.0 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



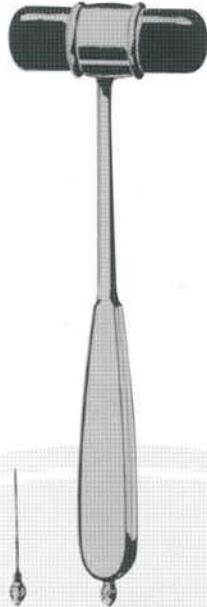
100-873-02
Gigli Handle



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



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

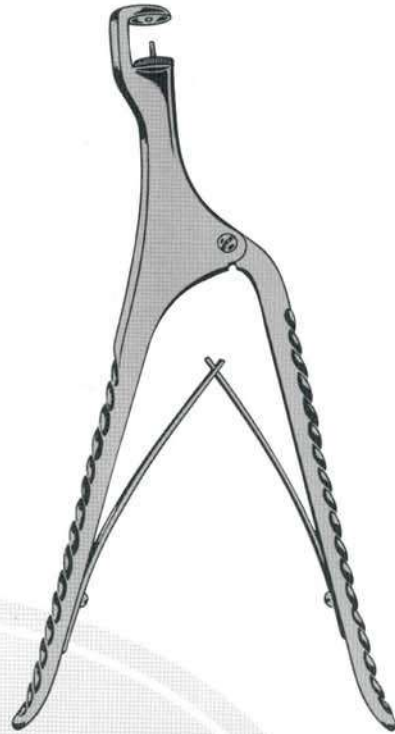


180-033-18 Wartenberg
180 mm
Pinwheel





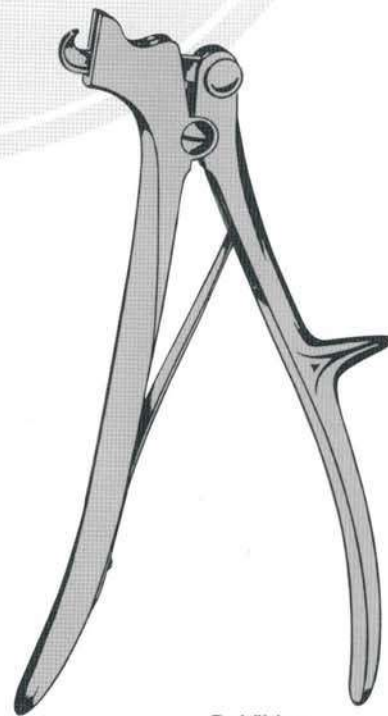
180-054-15
Adson
150 mm
Drill Guide and
Dura Protector



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



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

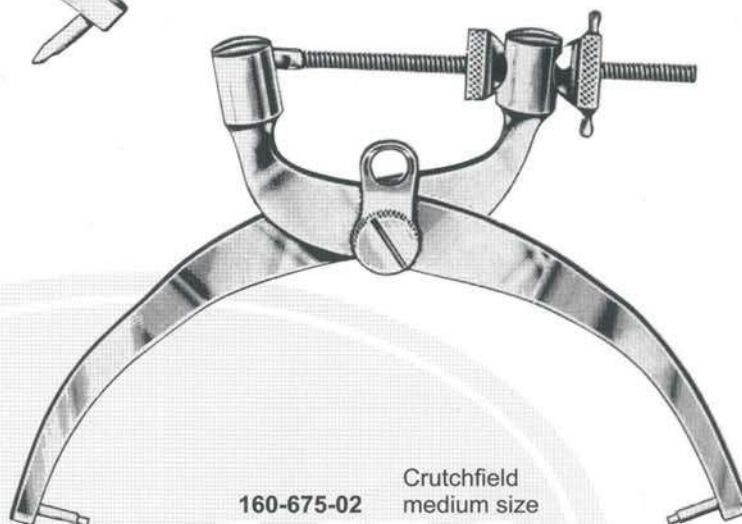


180-063-21
DeVibiss
210 mm
complete with 1 small and
1 large blade

DYNAMIC



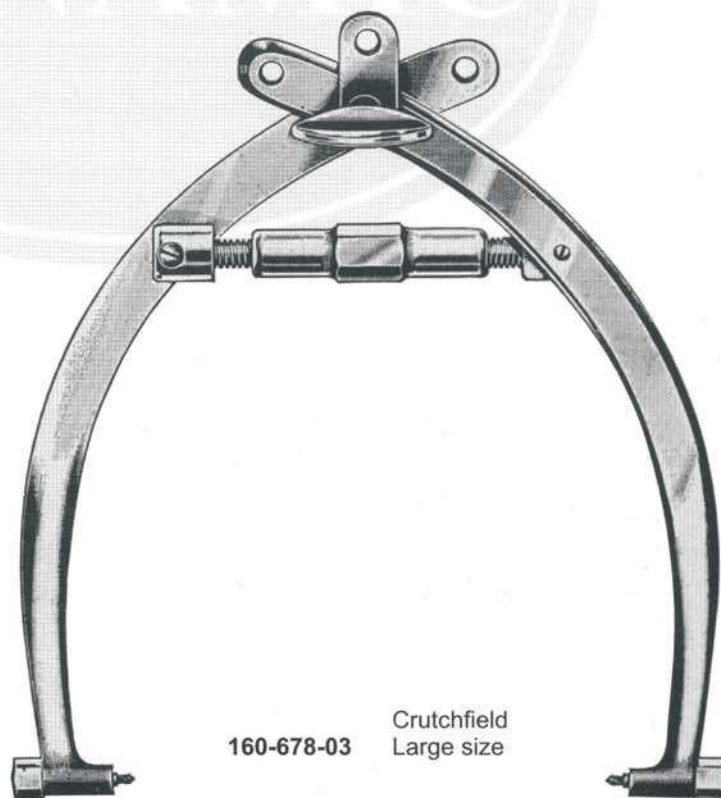
160-675-01 Crutchfield
Small size



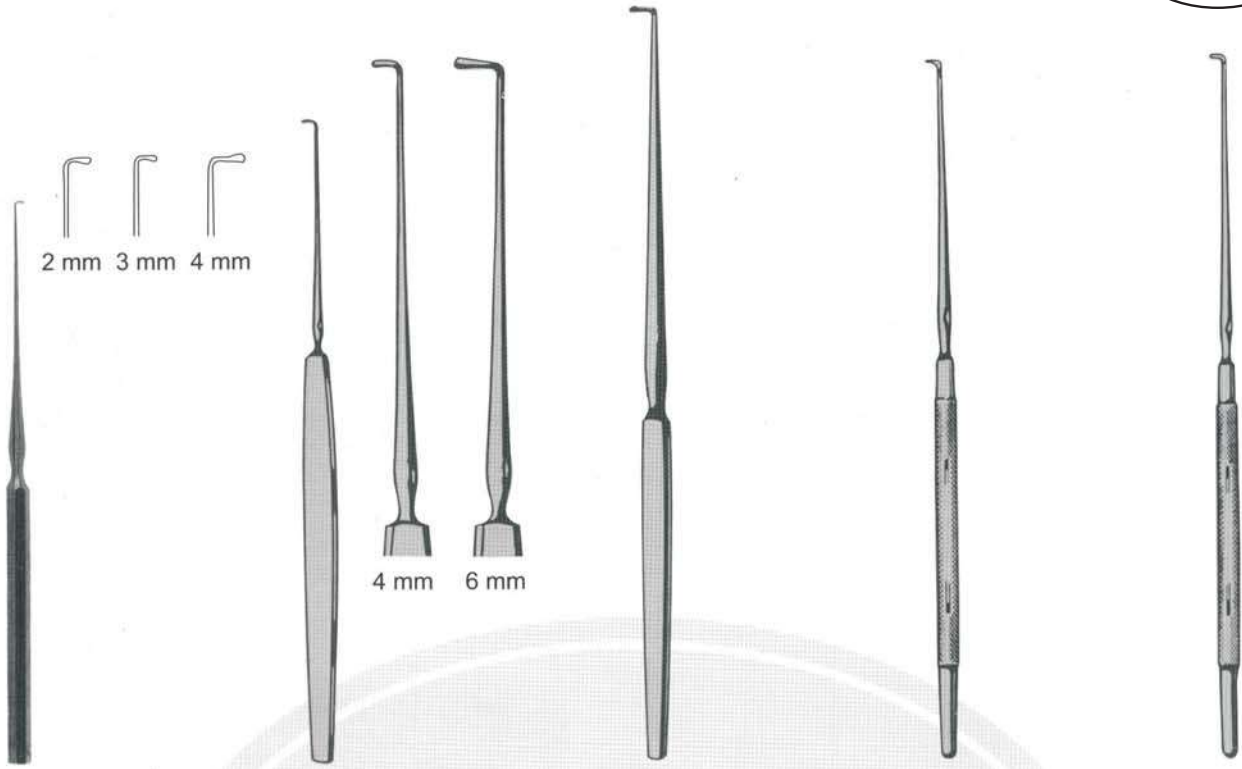
160-675-02 Crutchfield
medium size



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



160-678-03 Crutchfield
Large size



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

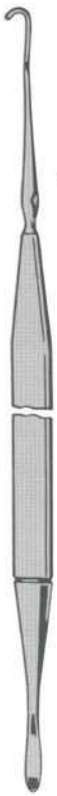
180-096-02
Dandy
210 mm
right

180-097-16
Graham
165 mm

180-099-21
Smithwick
210 mm

**DYNAMIC
INSTRUMENTS**

**Nerve Hooks, Nerve Separators
Nerve Haken, Nerve Separatoren
Nervio ganchos, separadores de nervios
Ganci nervi, separatori Nerve
Nerve Crochets, séparateurs Nerve**



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



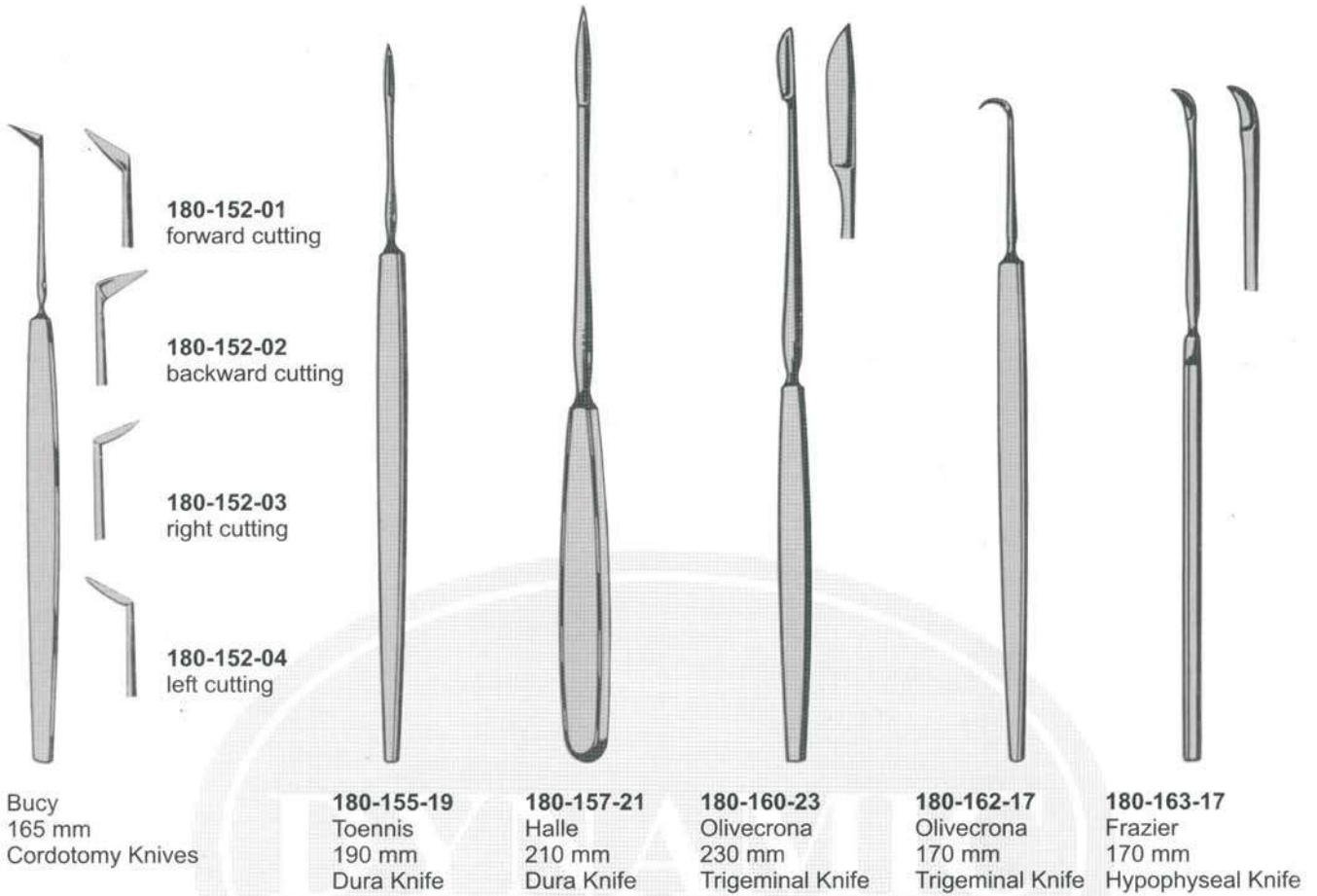
180-129-16
160 mm



180-132-15
Toennis
150 mm



180-135-16
Dura Twist Hook
140 mm



Bucy
165 mm
Cordotomy Knives

180-152-01
forward cutting

180-152-02
backward cutting

180-152-03
right cutting

180-152-04
left cutting

180-155-19
Toennis
190 mm
Dura Knife

180-157-21
Halle
210 mm
Dura Knife

180-160-23
Olivecrona
230 mm
Trigeminal Knife

180-162-17
Olivecrona
170 mm
Trigeminal Knife

180-163-17
Frazier
170 mm
Hypophyseal Knife



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 Pc



180-175-12
Michel 125 mm
Applying
Forceps



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



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



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

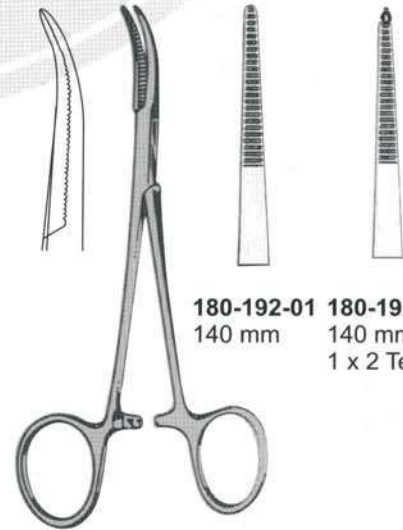
DYNAMIC



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



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

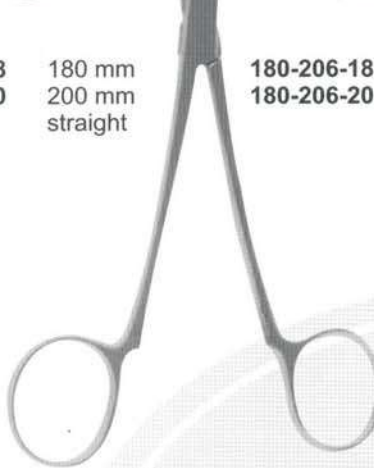


Dandy, 140 mm

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



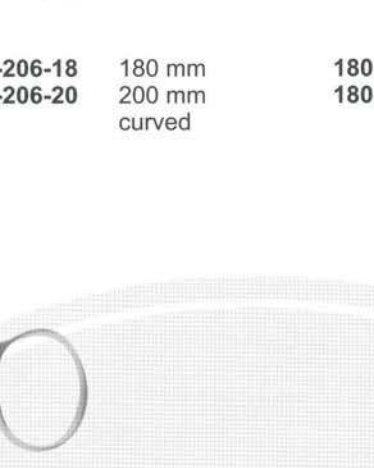
180-205-18 180 mm
180-205-20 200 mm
straight



Gross
without ratchet



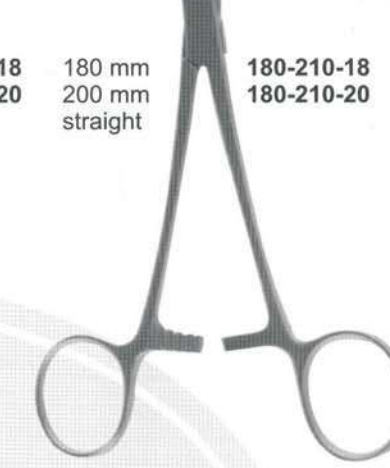
180-206-18 180 mm
180-206-20 200 mm
curved



Gross
with ratchet



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



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



180-215-01 straight
180-215-02 curved



Foerster Smooth
240 mm



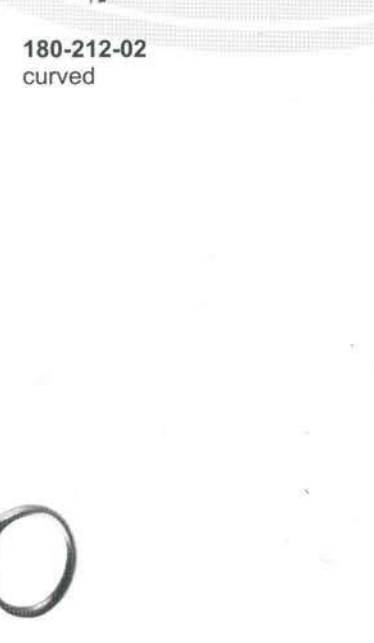
180-212-01 straight
180-212-02 curved



Foerster Serrated
240 mm



180-212-01 straight
180-212-02 curved



180-215-01 straight
180-215-02 curved



Foerster Serrated
240 mm



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



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



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



24.170.12
24.174.12 TC
24.170.15
24.174.15 TC

Adson
120 mm
120 mm
150 mm
150 mm



24.176.12
Adson-Micro
120 mm



24.220.17
Cushing
170 mm



Adson
120 mm
24.180.12
24.180.15
150 mm

DYNAMIC



24.186.12
Adson-Micro
120 mm



24.188.12
Adson.Brown
120 mm



Brown
160 mm
24.189.16
24.189.20
24.189.25
200 mm
250 mm



24.190.10
Graefe
105 mm



24.230.17
Cushing
170 mm



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



24.250.14
Duval
145 mm



24.252.20
Collin-Duval
200 mm



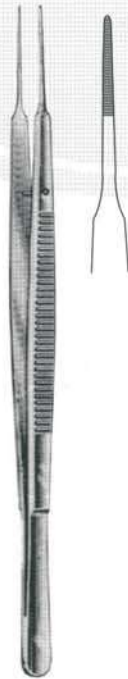
24.256.15 Russ-Mod
24.256.20 150 mm
24.256.25 200 mm
250 mm



24.258.15
McIndoe
150 mm



24.260.12 Semken
24.260.15 125 mm
150 mm



24.302.18
Gerald
180 mm



24.303.18
Gerald
180 mm



24.305.18
Gerald
180 mm



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

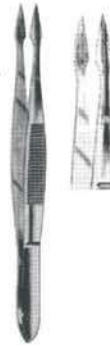




24-802-09 90 mm
24-802-11 115 mm



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



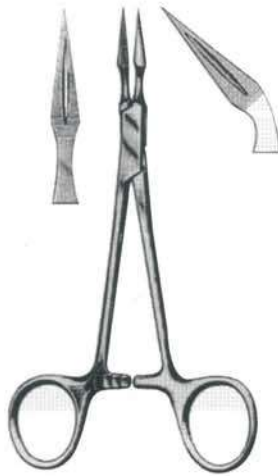
24-815-10
Carmalt
105 mm



24-817-10
Carmalt
105 mm



24-821-11
Peet
115 mm



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



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

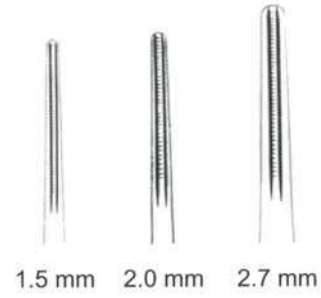


24.828.15
Archer (Ralk)
150 mm



2.0 mm

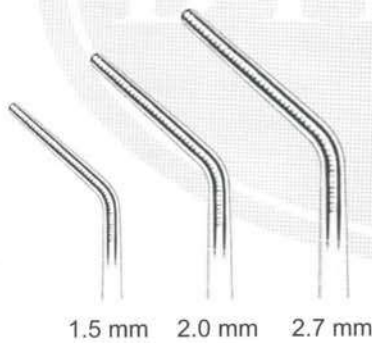
DeBakey-Adson
180-225-12 125 mm
180-225-15 150 mm



1.5 mm 2.0 mm 2.7 mm

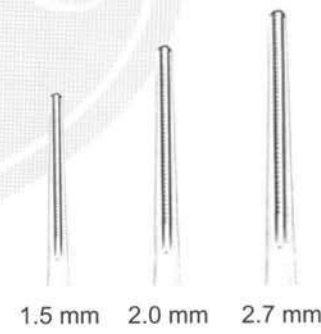
DeBakey straight

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



1.5 mm 2.0 mm 2.7 mm

DeBakey angled



1.5 mm 2.0 mm 2.7 mm

DeBakey bayonet

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

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



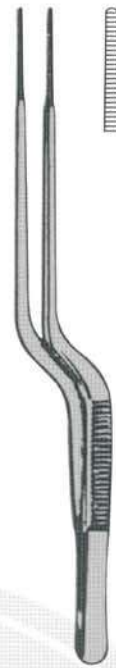
180-250-18
Cushing (Taylor)
185 mm
serrated



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



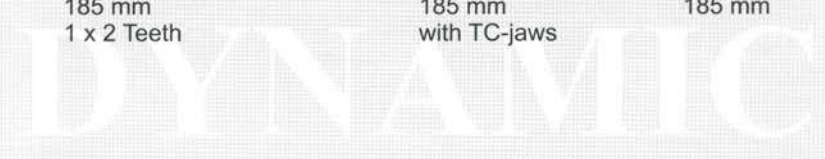
180-252-18
Taylor
185 mm
with TC-jaws



180-253-18
Serrated
185 mm



180-254-18
1 x 2 Teeth
185 mm



180-255-19
Cushing-Brown
190 mm



Gruenwald
195 mm



180-256-19
Serrated



180-257-19
1 x 2 Teeth



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



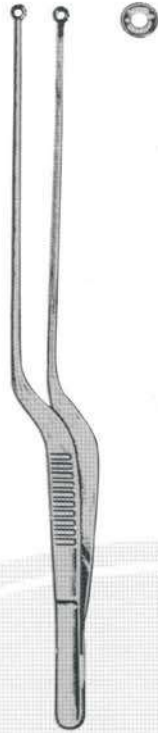
180-259-19
Micro
190 mm
Smooth jaws, blunt

**DYNAMIC
INSTRUMENTS**

Hypophyseal, Tumor Grasping & Brain Spatula Forceps
Hypophysären, Tumorfaßzange & Hirnspatel Zange
Hipofisario, tumor cerebral Entender y pinzas Espátula
Ipofisario, tumore Cogliere e pinze Spatola Brain
Hypophysaire, tumeur préhension et pinces Spatule Brain



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



22.160.14 145 mm
22.160.17 170 mm
straight



Mayo



22.161.14 145 mm
22.161.17 170 mm
curved



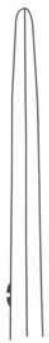
22.164.14 TC 145 mm
22.164.17 TC 170 mm
straight



Mayo TC cutting edges



22.165.14 TC 145 mm
22.165.17 TC 170 mm
curved



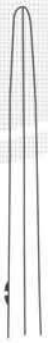
22.170.15 150 mm
22.170.17 170 mm
straight



Mayo-Stillle



22.171.15 150 mm
22.171.17 170 mm
curved



22.174.15 TC 150 mm
22.174.17 TC 170 mm
straight



Mayo-Stillle TC cutting edges



22.175.15 TC 150 mm
22.175.17 TC 170 mm
curved



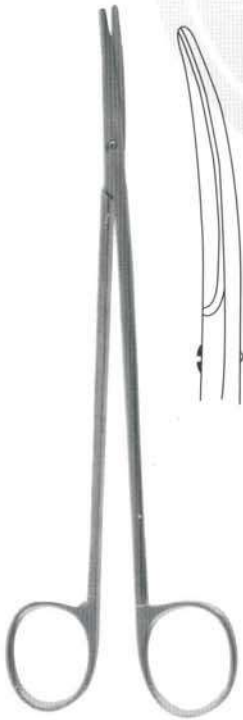
22.281.15 Metzenbaum 150 mm
22.281.18 Metzenbaum 180 mm curved



22.283.20 Metzenbaum 200 mm
22.283.23 Metzenbaum 230 mm delicate pattern curved



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



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



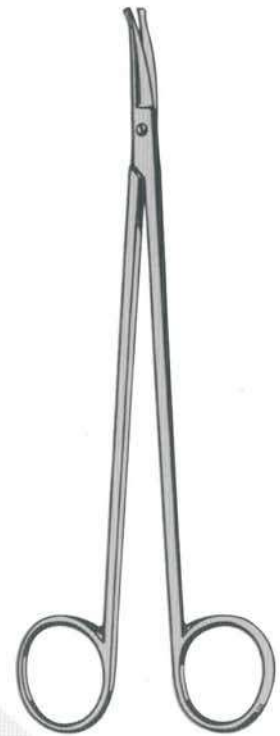
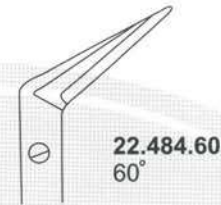
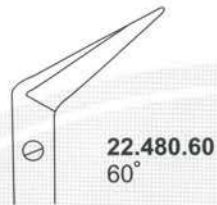
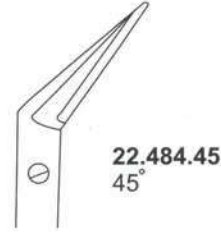
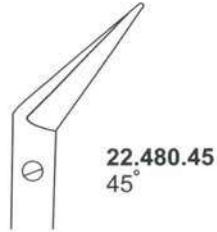
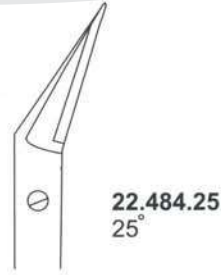
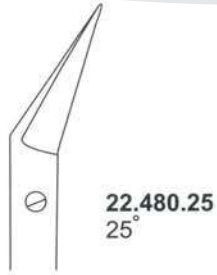
22.321.18 Reynolds 180 mm
22.321.20 Reynolds 200 mm curved



22.391.15 Olivecrona 150 mm shaft Trigeminal Scissors



Potts-Smith, 190 mm



22.601.20
Strully
220 mm
probe-pointed

DYNAMIC



22.611.18
Toennis
180 mm
curved



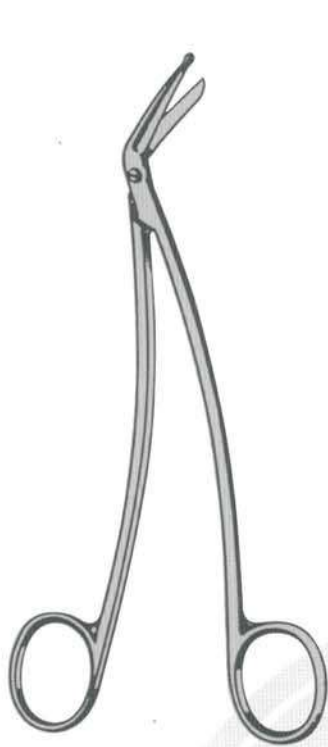
22.613.18
Toennis-Adson
180 mm
extra-delicate
curved



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



22.619.17
Schmieden (Taylor)
160 mm
Dural Scissors



22.930.18
sharp points



22.931.18
blunt points



22.932.18
sharp points



22.933.18
blunt points



DeMartel, 180 mm
straight



DeMartel, 180 mm
curved



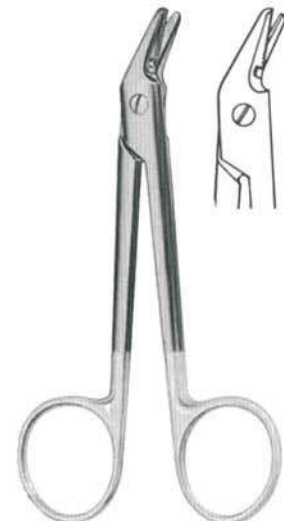
22.936.16
straight



22.937.16
curved



Adson (Kelly)
160 mm
Ganglion-Scissors



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



Mayo-Hegar with TC tips

- 34.184.14 140 mm
- 34.184.18 180 mm
- 34.184.20 200 mm



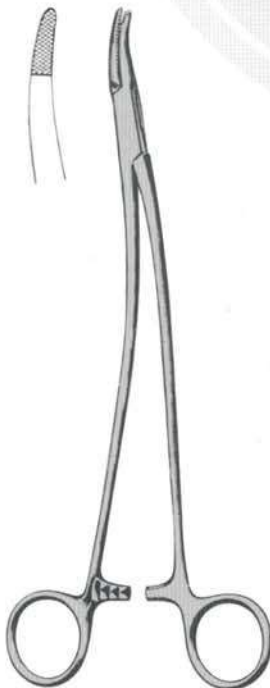
Crile-Wood with TC tips

- 34.164.15 150 mm
- 34.164.18 180 mm
- 34.164.20 200 mm
- 34.164.23 230 mm



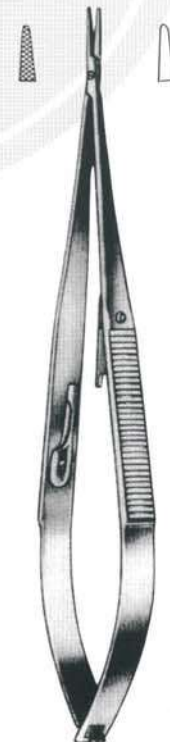
French Eye delicate, narrow jaws

- 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

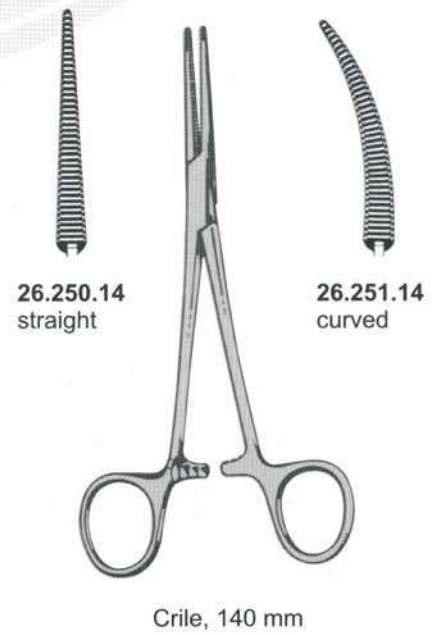
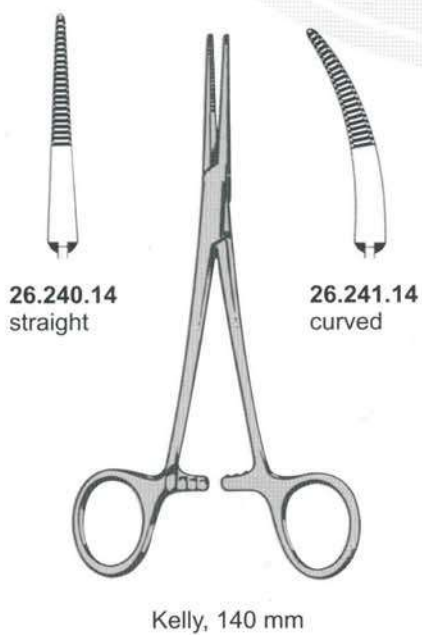
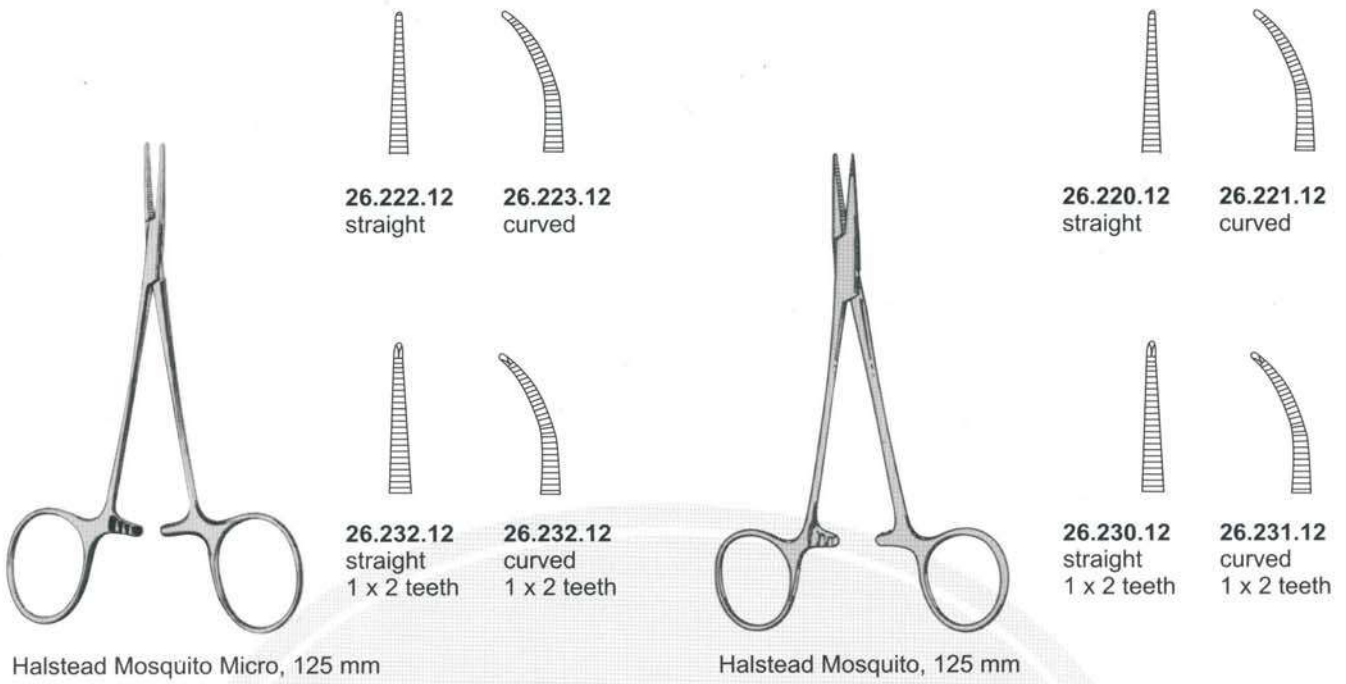


Castroviejo with TC tips, with catch, serrated jaws

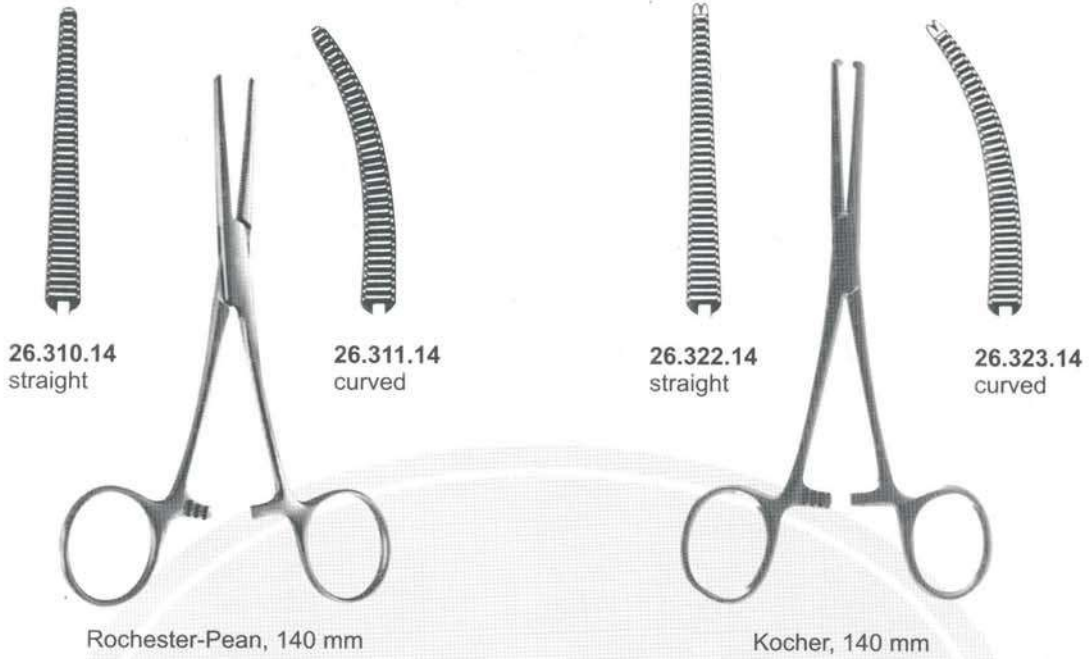
- 34.696.14 TC 140 mm
- 34.696.17 TC 170 mm

Castroviejo with TC tips, with catch, smooth jaws

- 34.692.14 TC 140 mm
- 34.692.17 TC 170 mm



DYNAMIC



26.310.14
straight

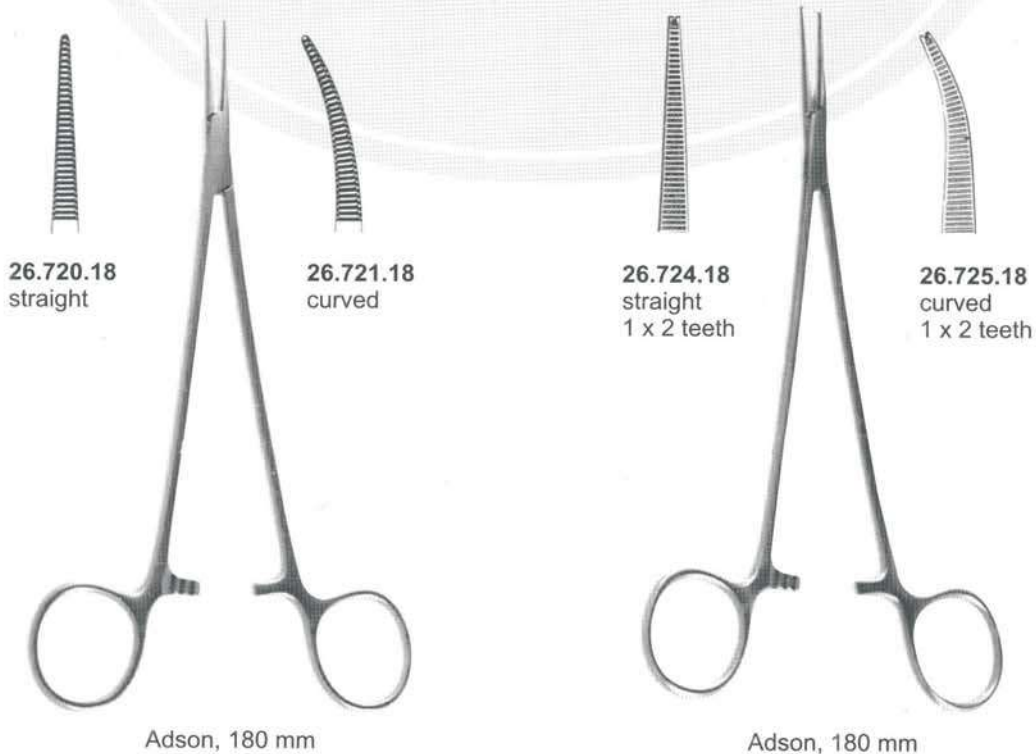
26.311.14
curved

26.322.14
straight

26.323.14
curved

Rochester-Pean, 140 mm

Kocher, 140 mm



26.720.18
straight

26.721.18
curved

26.724.18
straight
1 x 2 teeth

26.725.18
curved
1 x 2 teeth

Adson, 180 mm

Adson, 180 mm

DYNAMIC



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

DYNAMIC



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



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

DYNAMIC



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



195 mm
smooth jaws, blunt



180-325-01
straight



180-326-03
curved



180-329-06
angled



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



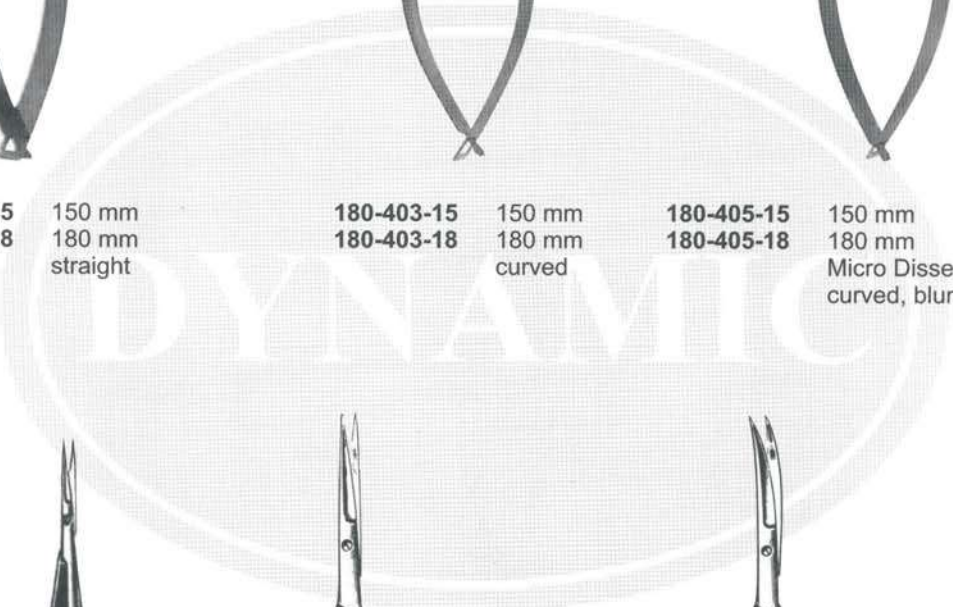
180-402-15 150 mm
180-402-18 180 mm
straight



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



180-422-18
180 mm
angled to side,
sharp tips



180-423-18
180 mm
angled to side,
blunt tips



DYNAMIC



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



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



180-452-15 150 mm
180-452-18 180 mm
curved
180-453-15 150 mm
180-453-18 180 mm



180-458-15 150 mm
180-458-18 180 mm
curved
180-459-15 150 mm
180-459-18 180 mm



180-464-18 180 mm
180-464-21 210 mm
straight, with catch
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





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

DYNAMIC



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



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

180-412-01
short curve

180-412-02
long curve

180-412-03
90° angle

180-412-20
2.0 mm
blunt tip

180-412-25
2.5 mm
blunt tip

180-412-30
3.0 mm
ball tip

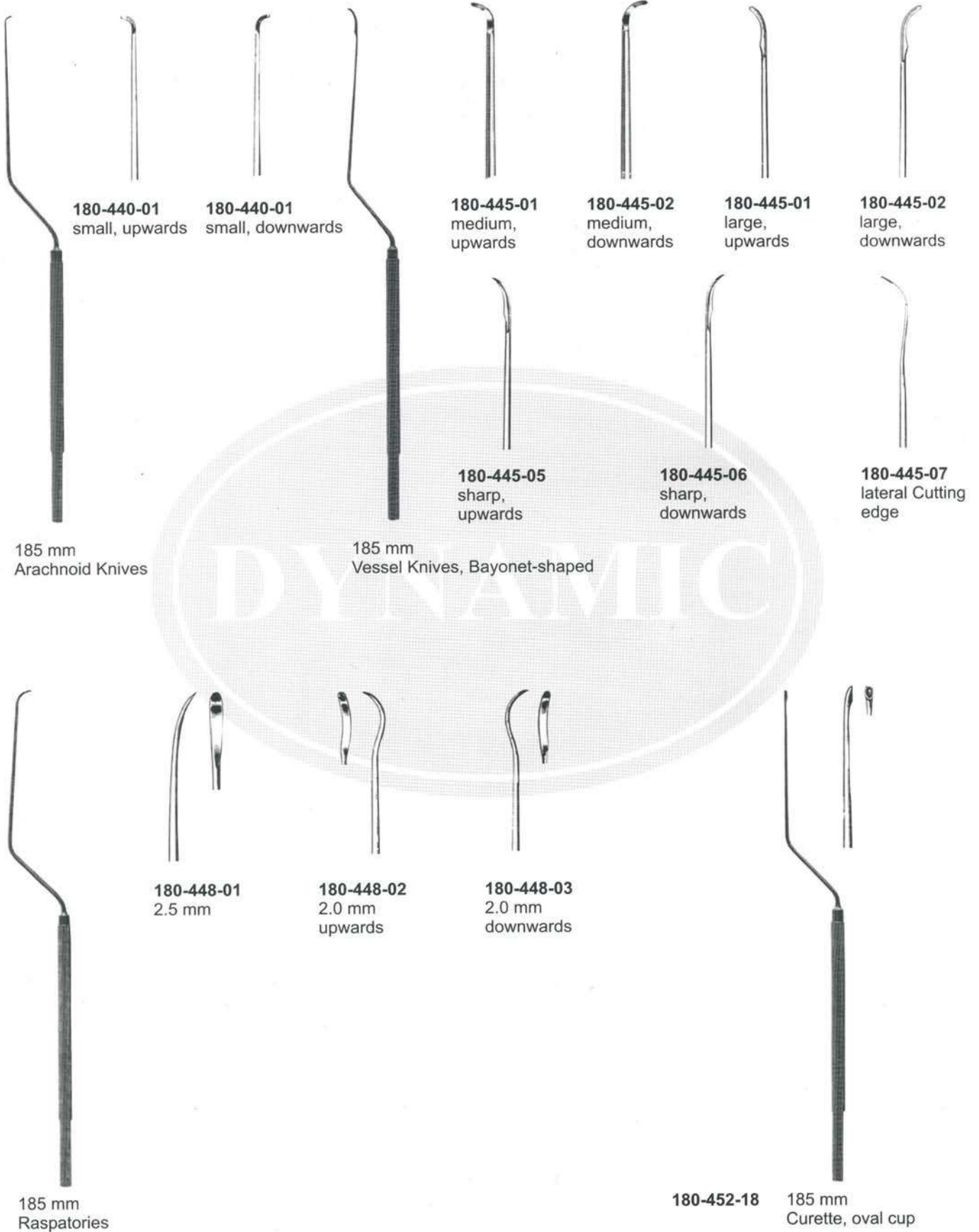
180-412-35
3.5 mm
ball tip

180-419-18

185 mm
Ligature Guede

185 mm
Nerve and Vessel Hook

185 mm
Vessel Knife





185 mm
180-462-10 1.0 mm
180-462-15 1.5 mm
180-462-20 2.0 mm

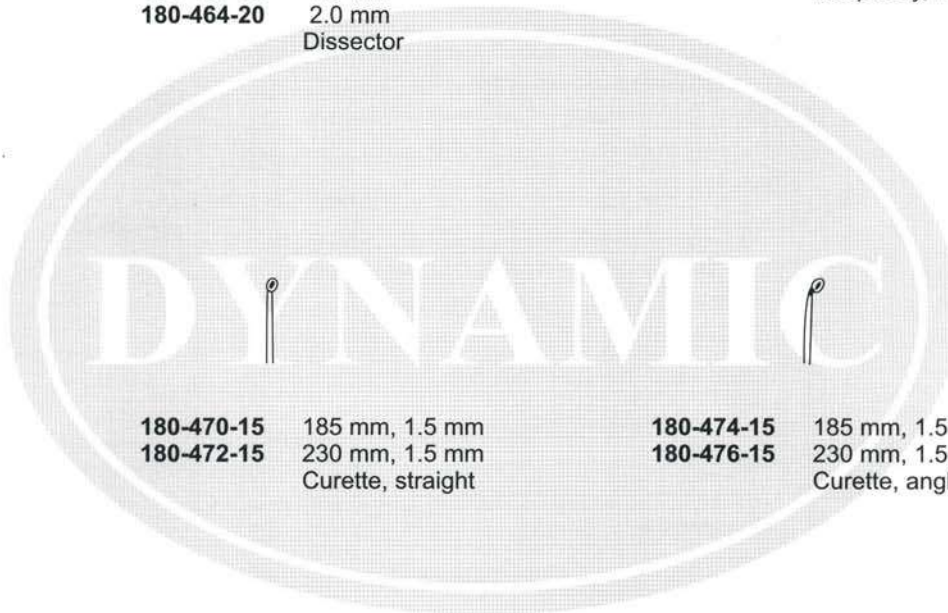


185 mm
180-466-20 2.0 mm
180-466-30 3.0 mm



230 mm
180-464-10 1.0 mm
180-464-15 1.5 mm
180-464-20 2.0 mm
 Dissector

230 mm
180-468-20 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
 1.5 mm
 Tissue Lifter



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



180-542-04
Ø 1.0 mm
angled up



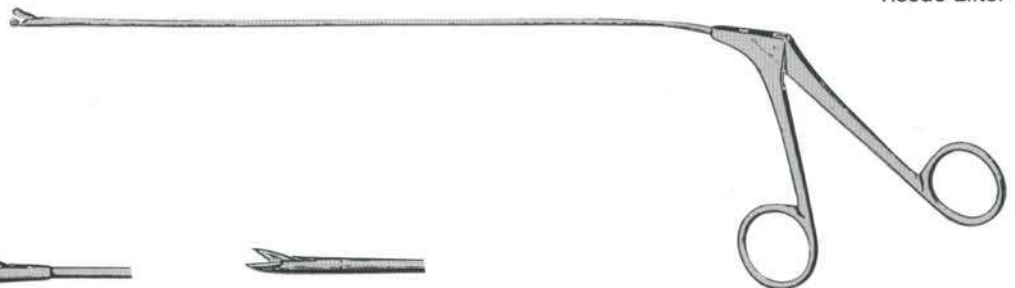
180-542-05
Ø 2.0 mm
curved to right



180-542-06
Ø 3.0 mm
curved to left

Micro Cup Forceps

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



160-204-15
Frazier
150 mm



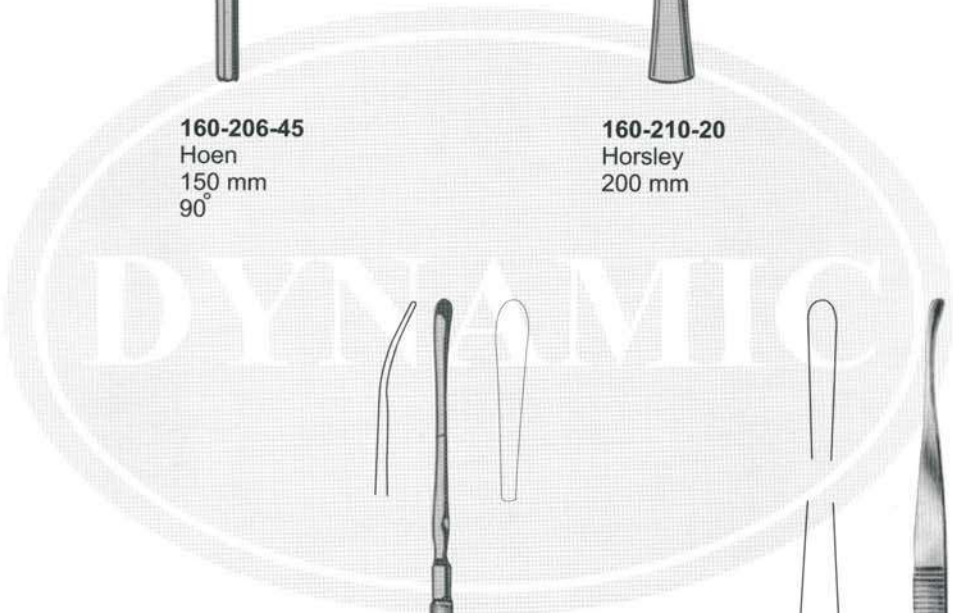
160-206-45
Hoen
150 mm
90°



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

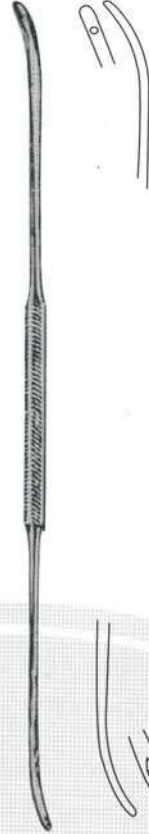


Toennis
240 mm



160-222-18
160-222-24

Olivecrona
180 mm
240 mm
delicate pattern



160-223-18
160-223-24

Olivecrona
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



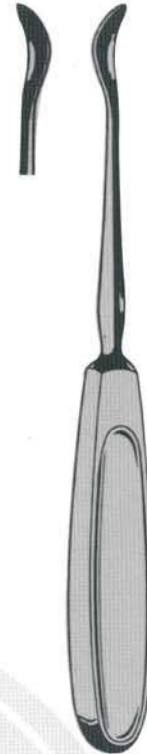
160-236-05
Penfield
290 mm
No. 5



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



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



DYNAMIC

160-242-45 160-242-90
angled 45° angled 90°

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



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



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



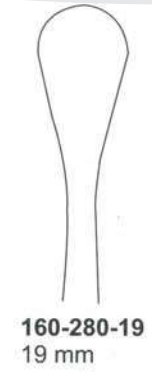
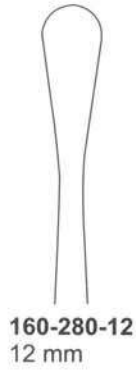
100-730-13
13 mm, 200 mm
sharp, curved



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



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

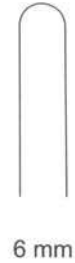


Cobb Spinal Elevator 238 mm sharp with hexagonal handle

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



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



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



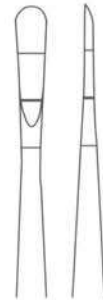
160-288-19
Harrington Spinal Elevator
300 mm Sharp
19 mm tip width



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

Cobb Spinal Elevator endoscopic
with fiber handle graduated tips



Hibbs Chisel		225 mm curved	
225 mm straight			
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 curved	
225 mm straight			
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 curved	
275 mm straight			
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 curved	
275 mm straight			
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



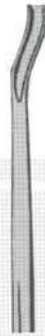
160-375-01
Straight



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 Gougs endoscopic 460 mm
7 mm tip width straight, graduated

**DYNAMIC
INSTRUMENTS**

Osteotomes / Gouges
Osteotom / Hohlmeißel
Osteotomo / Gubias
Osteotomo / Sgorbie
Osteotomes / Gouges



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

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

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

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



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

Lexer	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



Bruns, 270 mm
straight
100-825-40 Fig. 0000
100-825-30 Fig. 000
100-825-20 Fig. 00
100-825-10 Fig. 0
100-825-01 Fig. 1
100-825-02 Fig. 2
100-825-03 Fig. 3
100-825-04 Fig. 4
100-825-05 Fig. 5
100-825-06 Fig. 6



Bruns, 270 mm
angled
100-826-40 Fig. 0000
100-826-30 Fig. 000
100-826-20 Fig. 00
100-826-10 Fig. 0
100-826-01 Fig. 1
100-826-02 Fig. 2
100-826-03 Fig. 3
100-826-04 Fig. 4
100-826-05 Fig. 5
100-826-06 Fig. 6



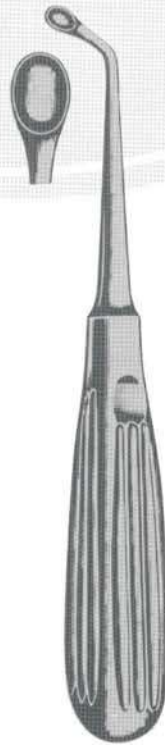
100-830-00
4 mm x 10 mm
straight



100-830-04
4 mm x 10 mm
up angle



100-830-03
4 mm x 10 mm
down angle

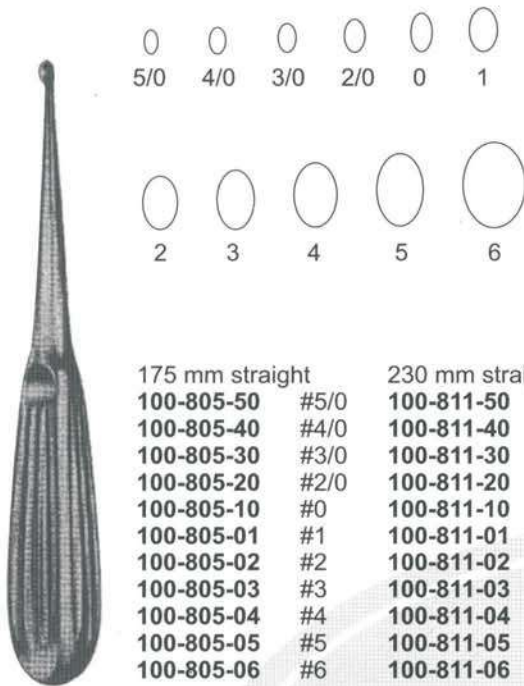


100-840-07
Uffendorde left 175 mm



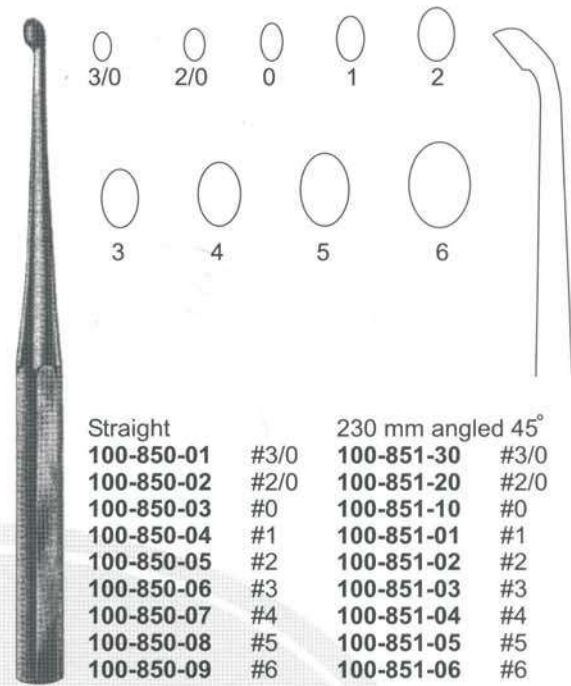
100-840-08
Uffendorde right 175 mm

Scoville, 250 mm
Ruptured Disc Curette



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



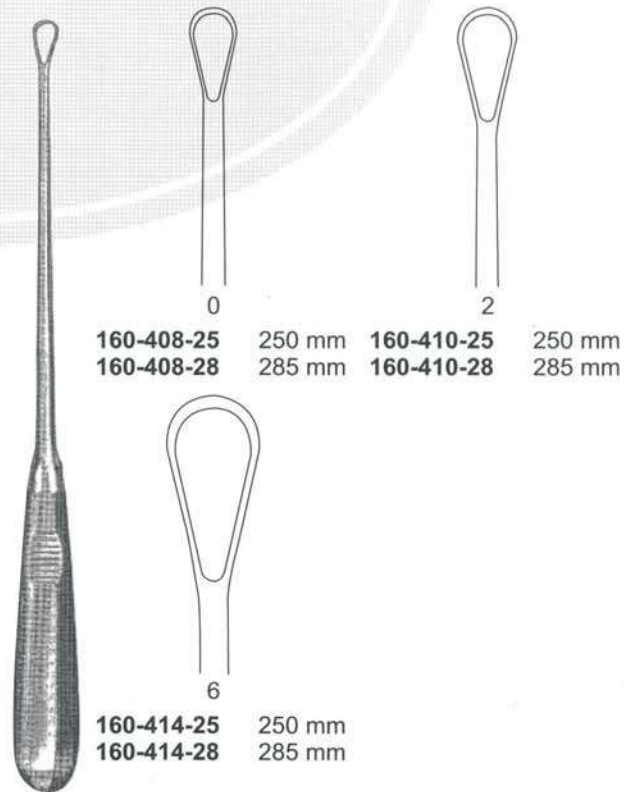
Straight		230 mm angled 45°	
100-850-01	#3/0	100-851-30	#3/0
100-850-02	#2/0	100-851-20	#2/0
100-850-03	#0	100-851-10	#0
100-850-04	#1	100-851-01	#1
100-850-05	#2	100-851-02	#2
100-850-06	#3	100-851-03	#3
100-850-07	#4	100-851-04	#4
100-850-08	#5	100-851-05	#5
100-850-09	#6	100-851-06	#6

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



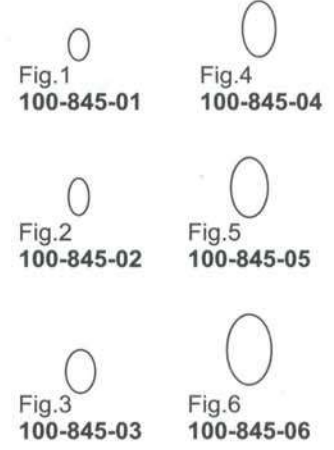
Straight	
160-403-08	Size #1, 8 mm ø
160-403-06	Size #2, 6 mm ø
160-403-03	Size #3, 3 mm ø
angled	
160-404-08	Size #1, 8 mm ø
160-404-06	Size #2, 6 mm ø
160-404-03	Size #3, 3 mm ø

Cone Ring Curette 230 mm with knurled handle, fenestrated cup



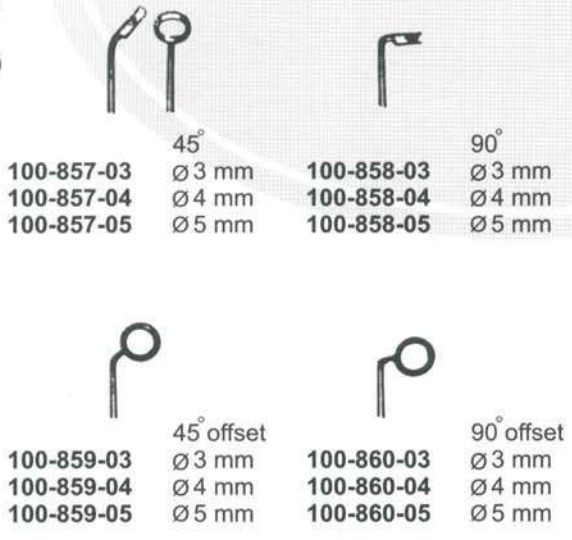
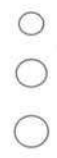
160-408-25	250 mm	160-410-25	250 mm
160-408-28	285 mm	160-410-28	285 mm
160-414-25		250 mm	
160-414-28		285 mm	

Ring Curette hollow handle, with fenestrated cup



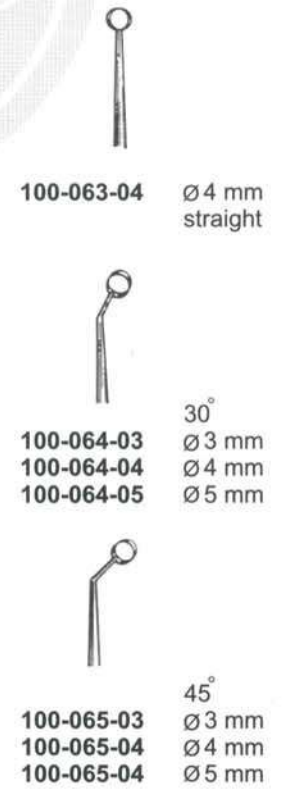
Cushing, 235 mm
Pituitary Spoon,
malleable, silver-plated

Simon 240 mm



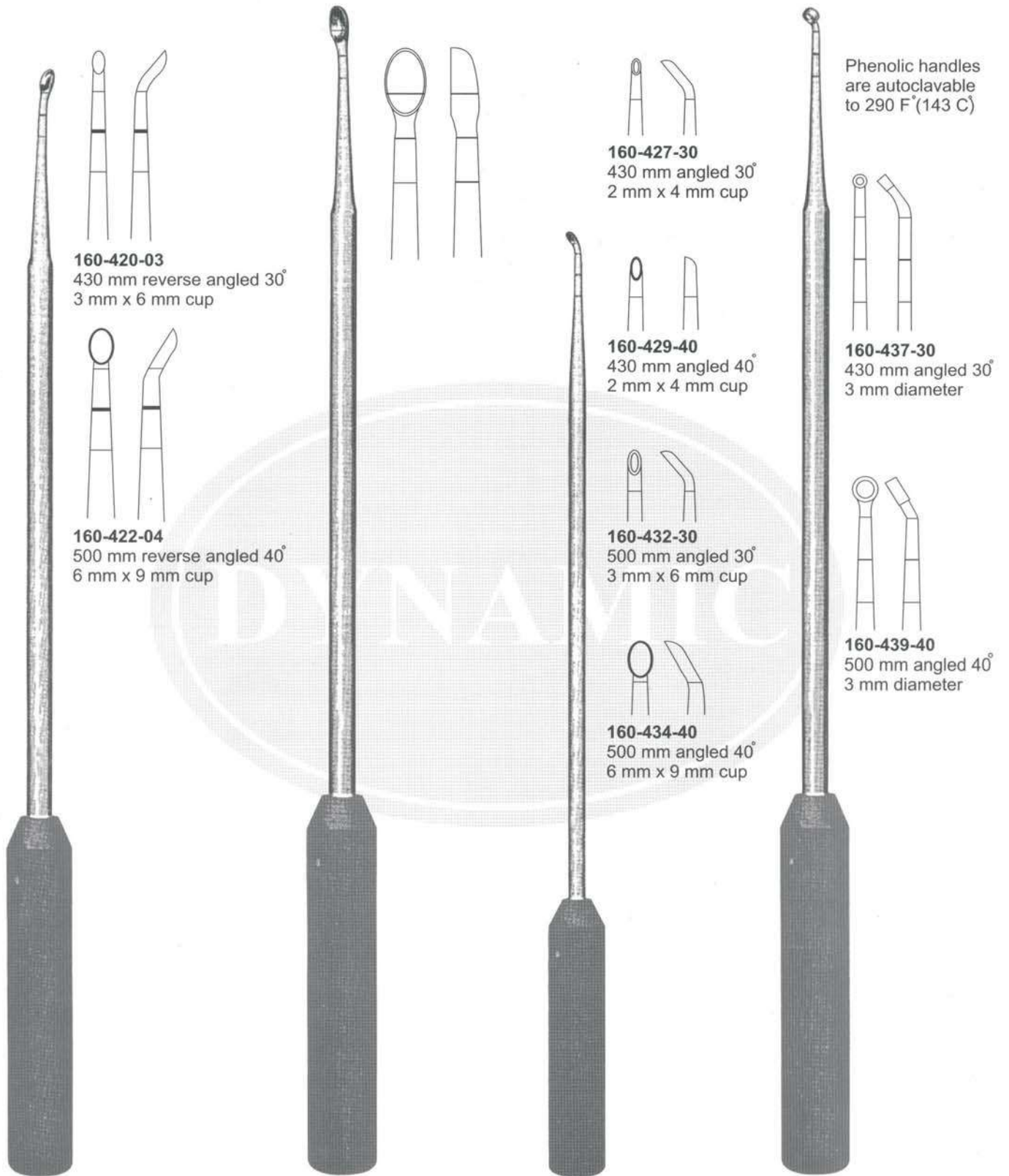
- | | | | |
|------------|------------|------------|------------|
| | 45° | | 90° |
| 100-857-03 | ∅ 3 mm | 100-858-03 | ∅ 3 mm |
| 100-857-04 | ∅ 4 mm | 100-858-04 | ∅ 4 mm |
| 100-857-05 | ∅ 5 mm | 100-858-05 | ∅ 5 mm |
| | 45° offset | | 90° offset |
| 100-859-03 | ∅ 3 mm | 100-860-03 | ∅ 3 mm |
| 100-859-04 | ∅ 4 mm | 100-860-04 | ∅ 4 mm |
| 100-859-05 | ∅ 5 mm | 100-860-05 | ∅ 5 mm |

Ray, 190 mm
Pituitary Curette



- | | |
|------------|--------------------|
| 100-063-04 | ∅ 4 mm
straight |
| 100-064-03 | 30°
∅ 3 mm |
| 100-064-04 | ∅ 4 mm |
| 100-064-05 | ∅ 5 mm |
| 100-065-03 | 45°
∅ 3 mm |
| 100-065-04 | ∅ 4 mm |
| 100-065-05 | ∅ 5 mm |

Tay-Bronson, 220 mm
Pituitary Curette,
double-edged



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

160-427-30
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

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

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

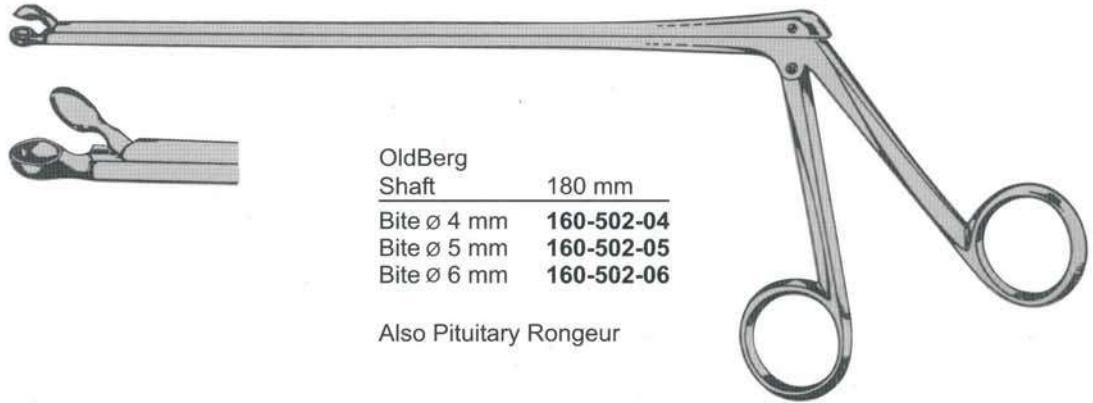
Cone Ring Curette endoscopic
graduated with fiber handle

**DYNAMIC
INSTRUMENTS**

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

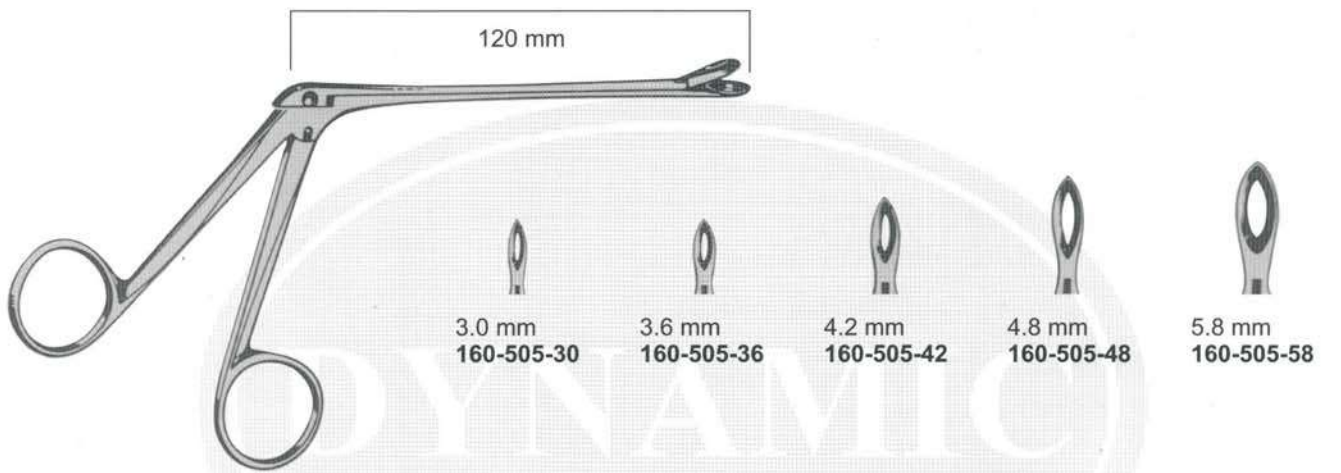


4 mm 5 mm 6 mm



OldBerg
Shaft 180 mm
Bite 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

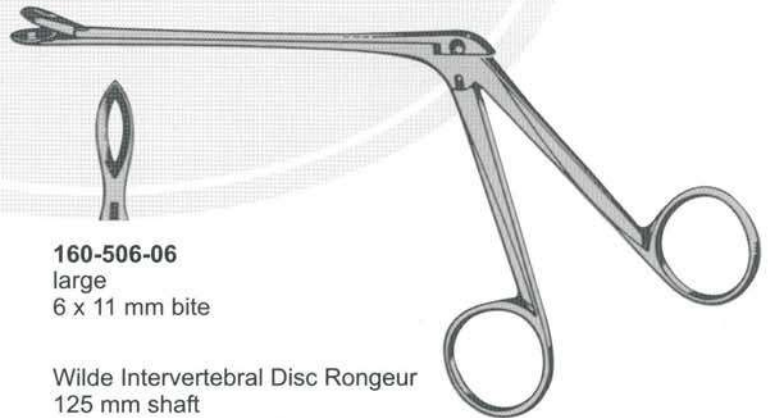
5.8 mm
160-505-58

Weil - Blakesley

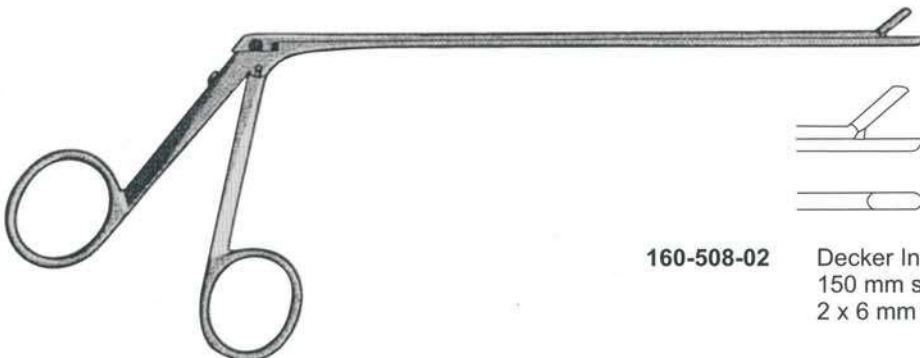
160-506-04
small
4 x 9 mm bite

160-506-05
Medium
5 x 10 mm bite

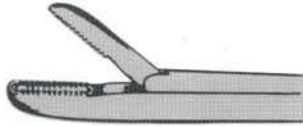
160-506-06
large
6 x 11 mm bite



Wilde Intervertebral Disc Rongeur
125 mm shaft
fenestrated jaws straight

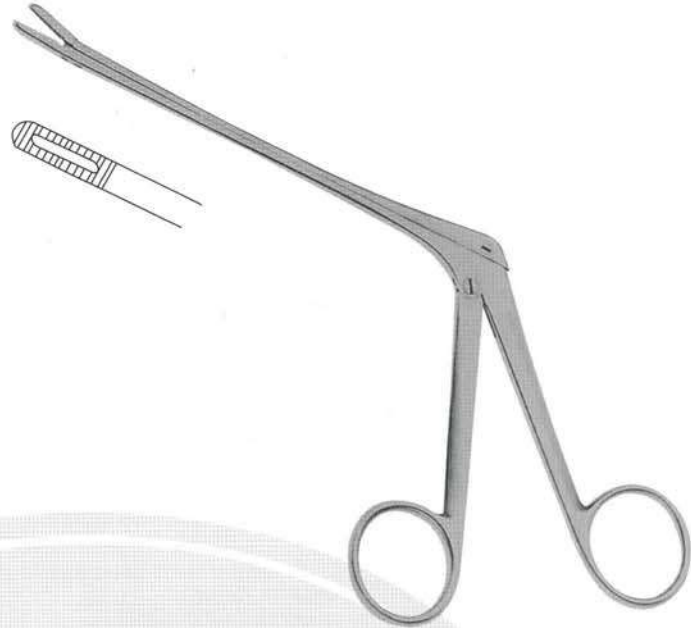


160-508-02 Decker Intervertebral Disc Rongeur
150 mm shaft
2 x 6 mm bite straight

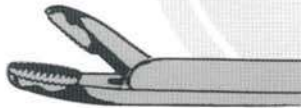


Straight

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



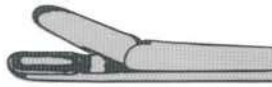
Cloward-type
Serrated cup jaws

DYNAMIC

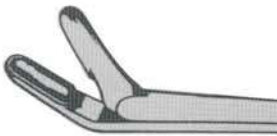
**Intervertebral Disc Rongeur
Zwischenwirbelscheiben Disc Rongeur
Intervertebral Pinzas Disc
Intervertebrale Disc Rongeur
Rongeur Disc intervertébral**



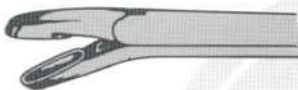
2x10 3x10 4x10



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



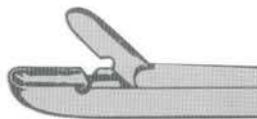
Angled - up Shaft	130 mm	180 mm
Bite 2 x 10 mm	160-518-02	160-521-02
Bite 3 x 10 mm	160-518-03	160-521-03
Bite 4 x 10 mm	160-518-04	160-521-04



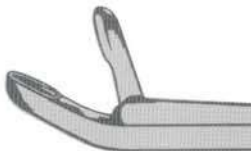
Angled - down Shaft	130 mm	180 mm
Bite 2 x 10 mm	160-519-02	160-522-02
Bite 3 x 10 mm	160-519-03	160-522-03
Bite 4 x 10 mm	160-519-04	160-522-04



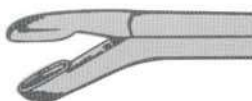
2x10 3x10 4x10



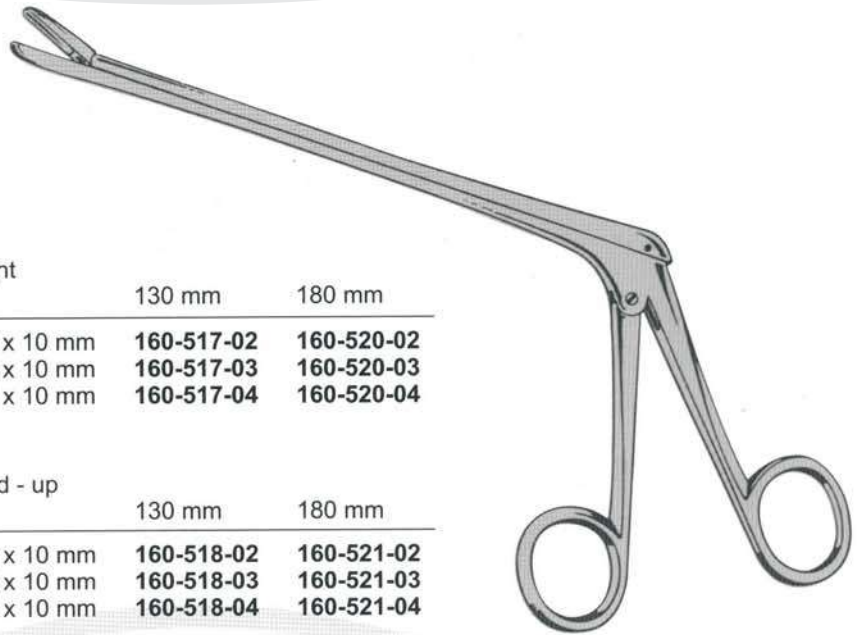
Straight Shaft	180 mm
Bite 2 x 10 mm	160-524-02
Bite 3 x 10 mm	160-524-03
Bite 4 x 10 mm	160-524-04



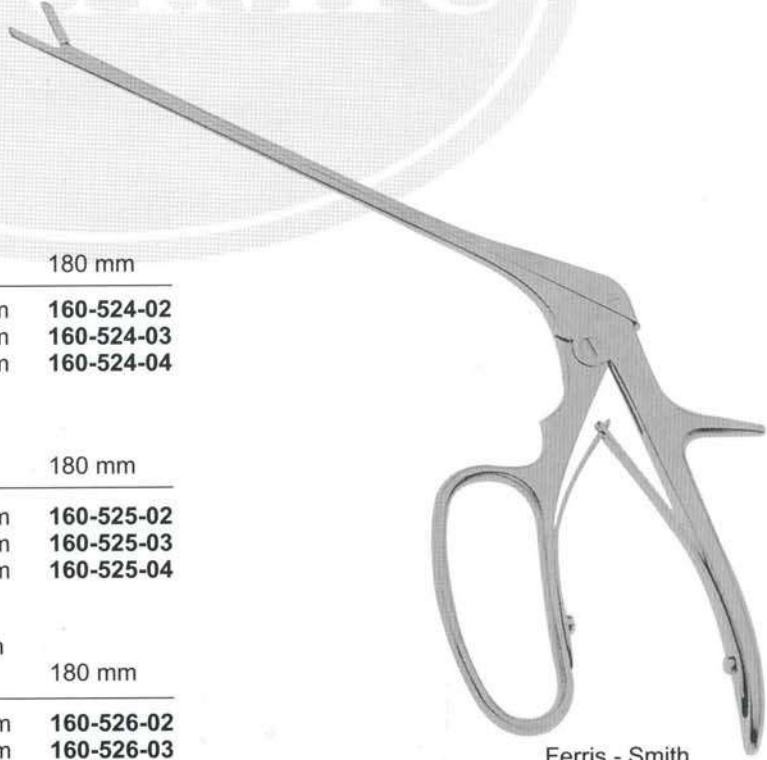
Angled - up Shaft	180 mm
Bite 2 x 10 mm	160-525-02
Bite 3 x 10 mm	160-525-03
Bite 4 x 10 mm	160-525-04



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



Cushing
Love - Gruenwald
Spurling



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

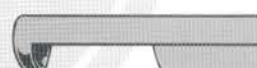
□	1 mm bite up	
	160-535-01	180 mm

□	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



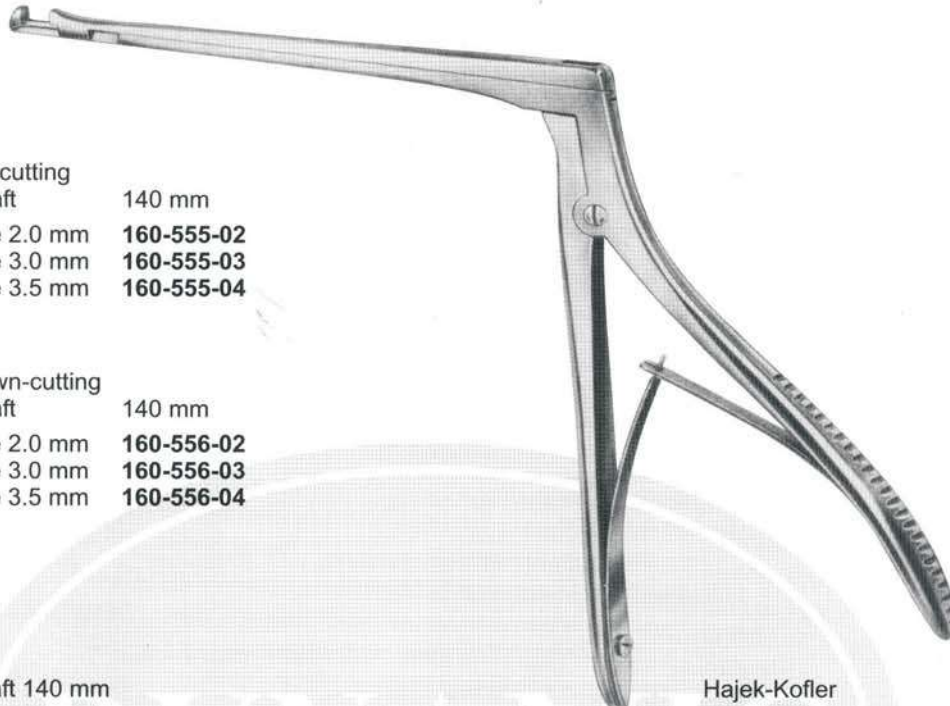
2.0 mm 3.0 mm 3.5 mm



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**

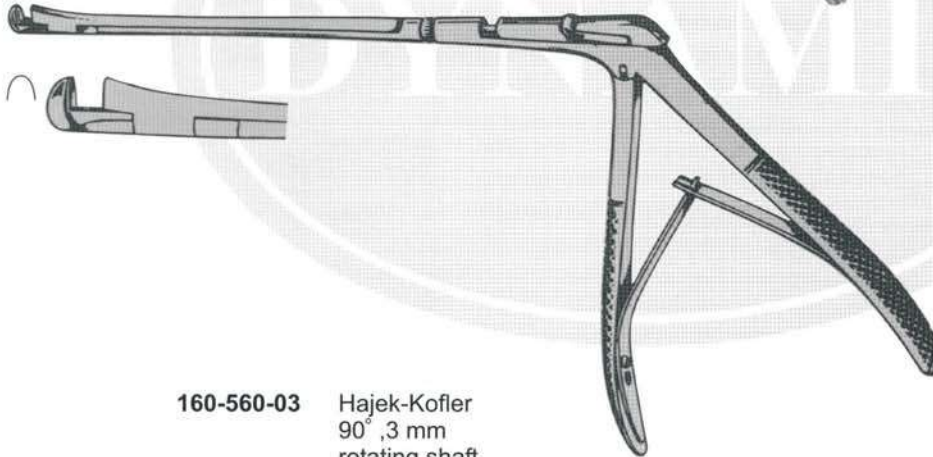


90°
Down-cutting
Shaft 140 mm
Bite 2.0 mm **160-556-02**
Bite 3.0 mm **160-556-03**
Bite 3.5 mm **160-556-04**



Shaft 140 mm

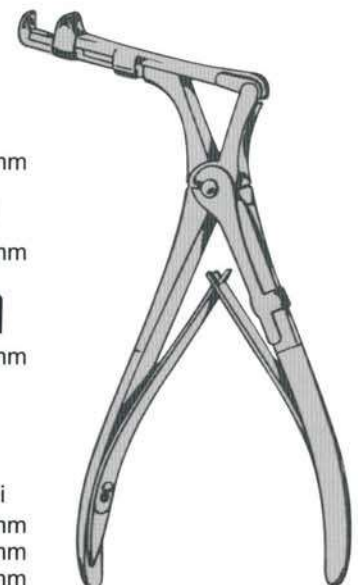
Hajek-Kofler



160-560-03 Hajek-Kofler
90°, 3 mm
rotating shaft

1.0 mm
2.5 mm
4.0 mm

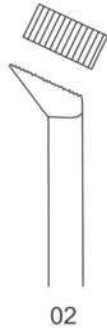
Citelli
160-562-01 1.0 mm
160-562-02 2.5 mm
160-562-03 4.0 mm





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



160-607-10

Bone Tamp endoscopic
430 mm with stainless steel handle
10 mm diameter

- | | | |
|-------------------|---------------------------------------------------------|--------|
| 160-603-01 | Lumbar and Cervical Impactors and Drivers serrated tips | 215 mm |
| 160-603-02 | Impactor, standard offset, | 215 mm |
| 160-603-03 | Impactor, central canal, | 215 mm |
| 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 |

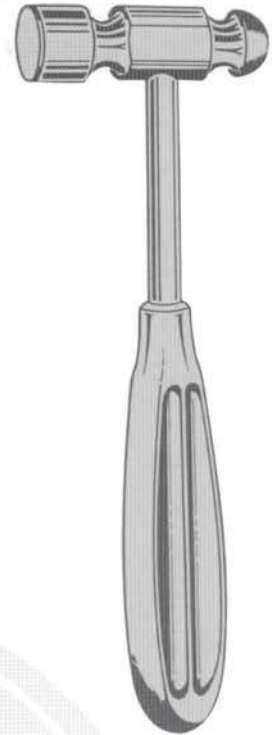
Mallets
Mallets
Martillos y mazos
Martelli
Maillets



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

DYNAMIC



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



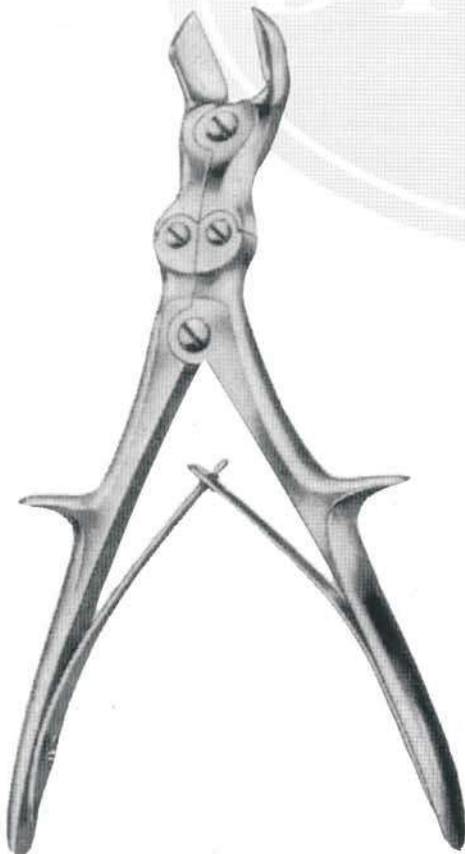
100-612-21 30 mm / 215 g
 with interchangeable
 Plastic disks 250 mm
100-613-02 Pair of spare disks



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



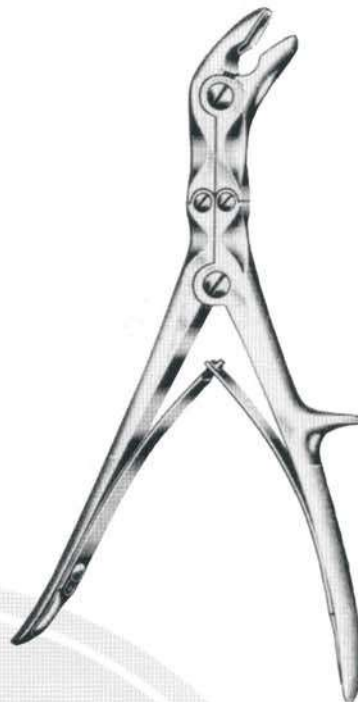
102-030-27 Stille Horsley 270 mm



102-045-28 Giertz-Semb 280 mm



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



- 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

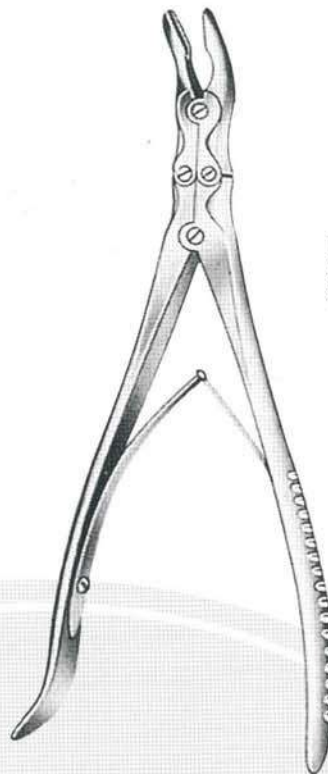


4 mm
102-280-04

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



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



Smith-Peterson Laminectomy Rongeur 235 mm

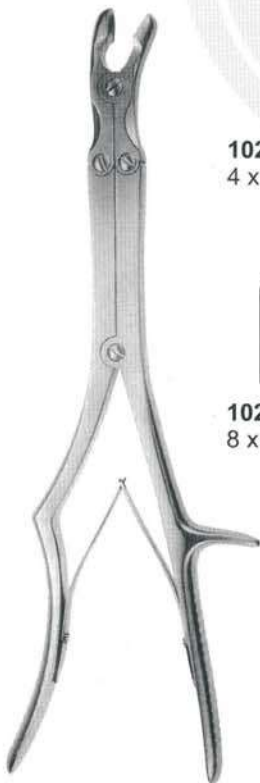
102-295-01
Straight
3 x 16 mm bite



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



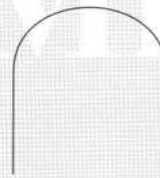
102-298-04
5 x 16 mm bite



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



100-265-30 Sauerbruch 310 mm
100-266-30 Round
Straight



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



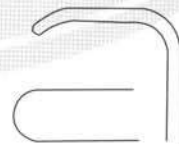
160-142-07
4 prong, sharp



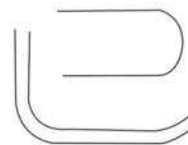
160-142-08
4 prong, blunt



160-144-01
Ragnell, 160 mm



Full Size



Full Size



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

DYNAMIC



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

DYNAMIC



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



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



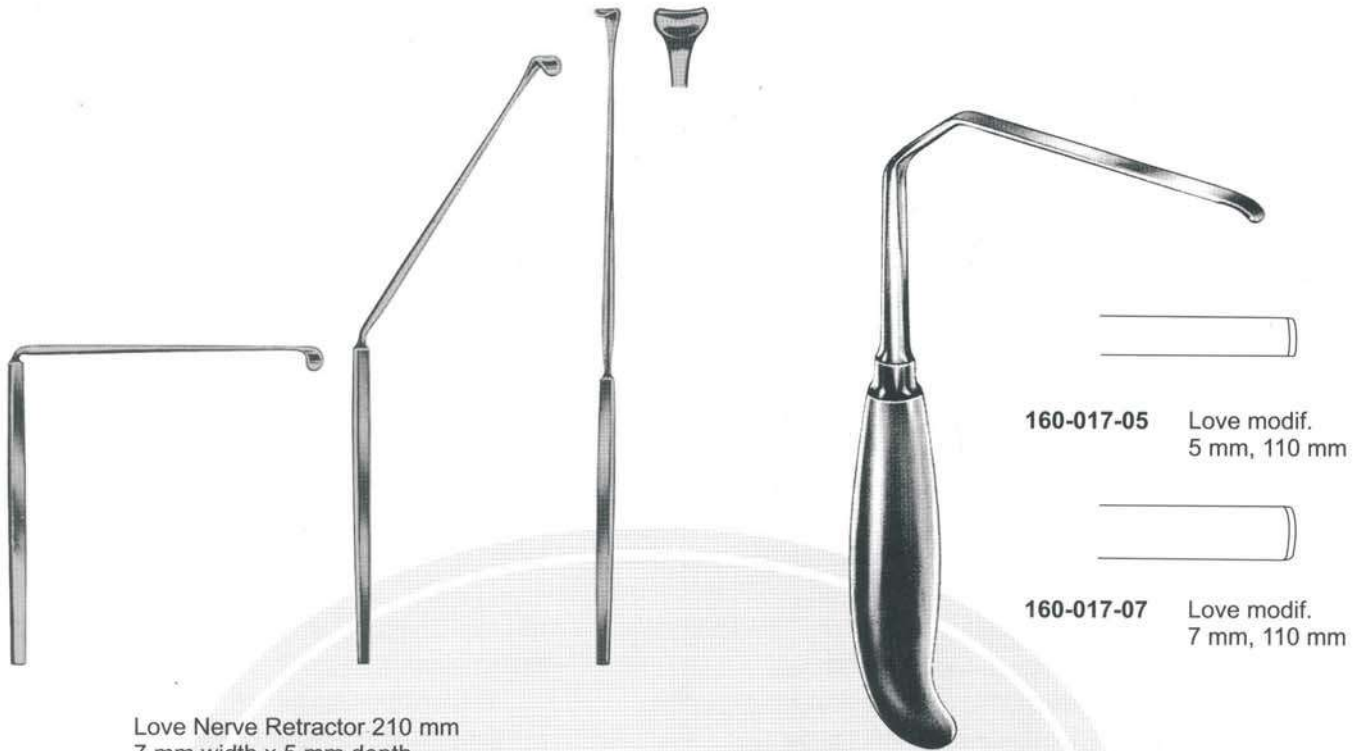
160-150-20
 Cushing, 200 mm
 10 mm x 18 mm
 Decompression
 Retractor



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



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



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

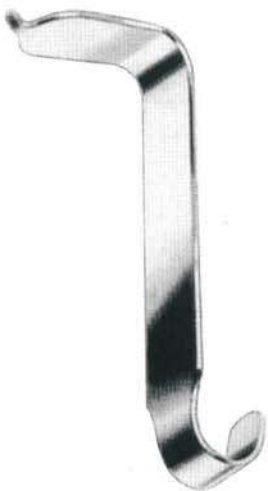


160-030-21
Cushing Decompression Retractor 215 mm
with fenestrated blade and handle
Blade 13 mm width x 22 mm

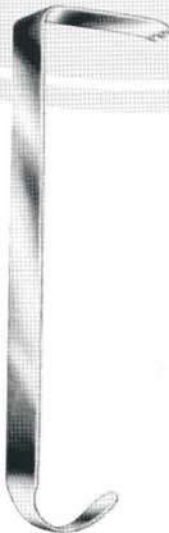


160-031-01
160-031-02

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
Meyerdig
16 X 50 mm, 200 mm
25 X 75 mm, 230 mm
50 X 90 mm, 240 mm



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



Gelpi Retractor

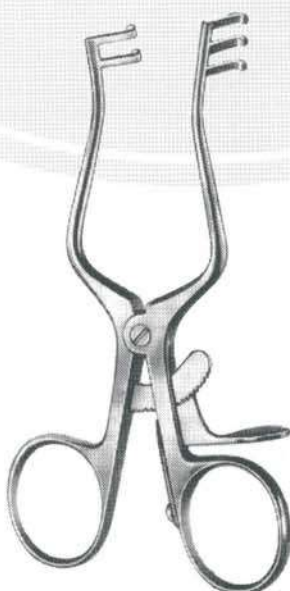


160-070-15 Gelpi Retractor 150 mm
160-070-26 Wiltse Retractor 260 mm
sharp, deep blade

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

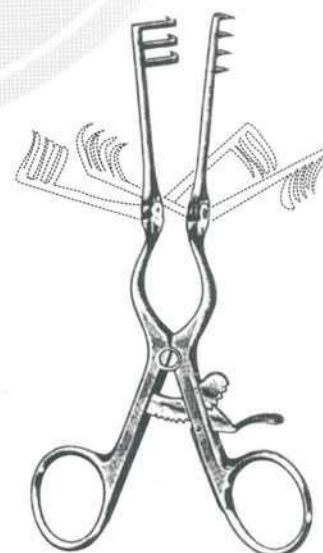


160-065-17
Gelpi Retractor 175 mm
with ball stops
sharp points



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

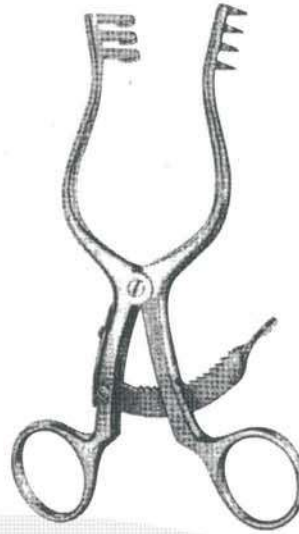
Height	Blunt	Sharp
135 mm	160-080-13	160-081-13
170 mm	160-080-17	160-081-17
210 mm	160-080-21	160-081-21
240 mm	160-080-24	160-081-24



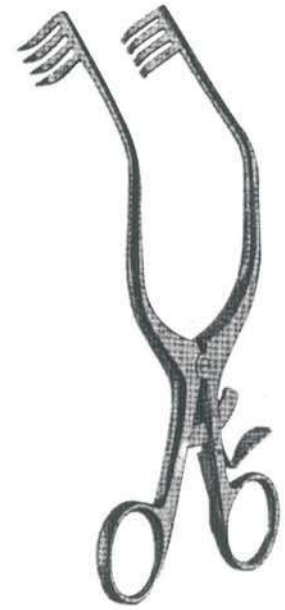
160-052-10
Jansen Retractor 100 mm
3 x 3 blunt prongs



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



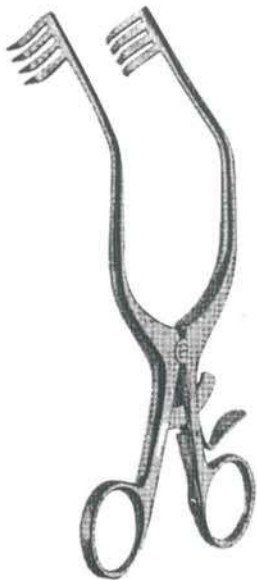
160-057-13
Scalp Contour
Retractor 135 mm
3 x 4 sharp prongs
15 mm x 20 mm



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

160-080-18
160-081-18

DYNAMIC



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



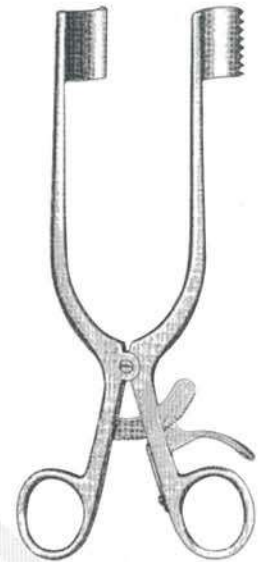
160-092-03
160-092-07

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



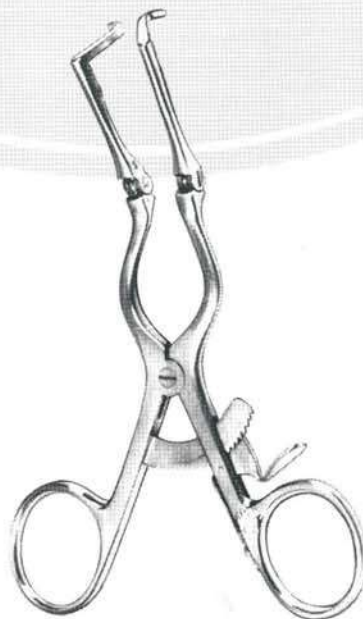
160-095-30
160-095-40
160-095-50
160-095-60

**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



- 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 set with 7 blades
(30 mm - 60 mm)
160-105-03 complete set 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



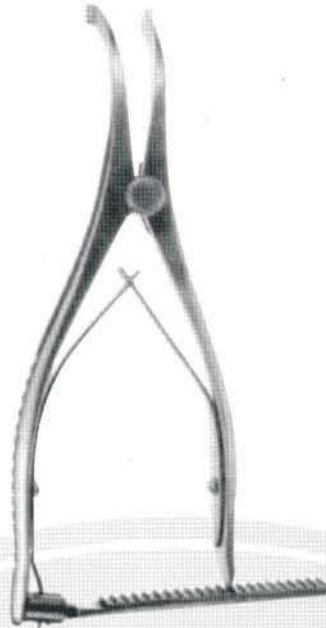
- 160-107-07** Cloward 250 mm
(with snap lock)
Frame only
160-107-00 complete with 7 blades
160-107-03 complete with 7 toothed blades
(30 mm - 60 mm)



- 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



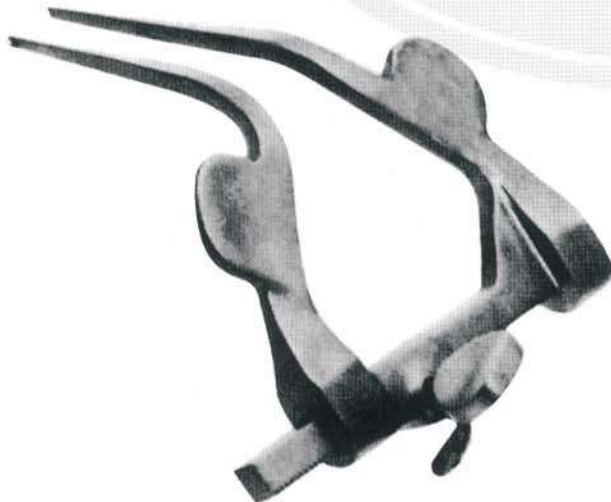
160-122-13
Cloward 130 mm



160-125-16
Inge 160 mm
Small pattern



160-125-05
160-125-10
Inge, 260 mm
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

DYNAMIC



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



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



- | | |
|-------------------|--------------------------|
| | Blunt 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 |

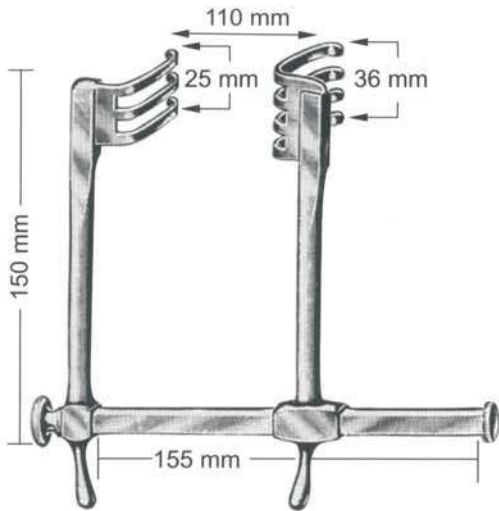


- | | |
|-------------------|----------------------------|
| | Lateral Blades width 20 mm |
| | Blade Lengths |
| 160-139-40 | 40 mm |
| 160-139-45 | 45 mm |
| 160-139-50 | 50 mm |
| 160-139-55 | 55 mm |
| 160-139-60 | 60 mm |
| 160-139-65 | 65 mm |

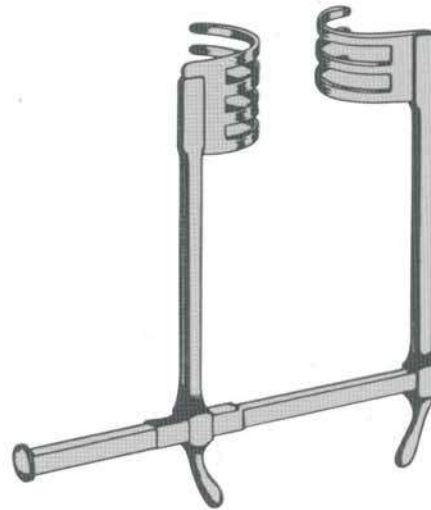
- | | |
|-------------------|--------------------------|
| | Blunt Blades width 20 mm |
| | Blade Lengths |
| 160-145-45 | 45 mm |
| 160-145-50 | 50 mm |
| 160-145-55 | 55 mm |
| 160-145-60 | 60 mm |
| 160-145-65 | 65 mm |



- | | |
|-------------------|--------------------------------------------------------------|
| | 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 |



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



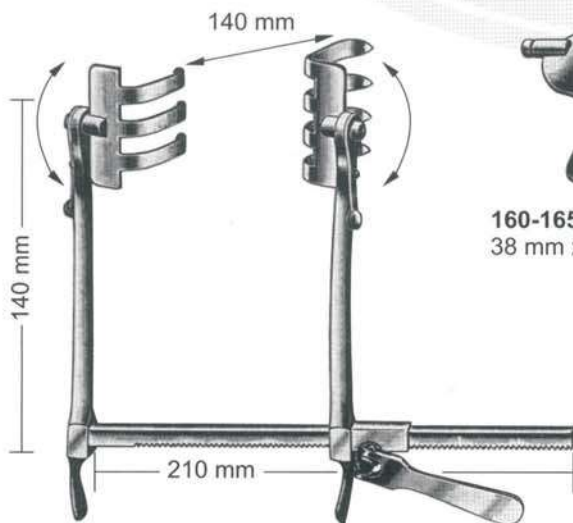
160-165-03
28 mm x 40 mm



160-165-04
38 mm x 62 mm



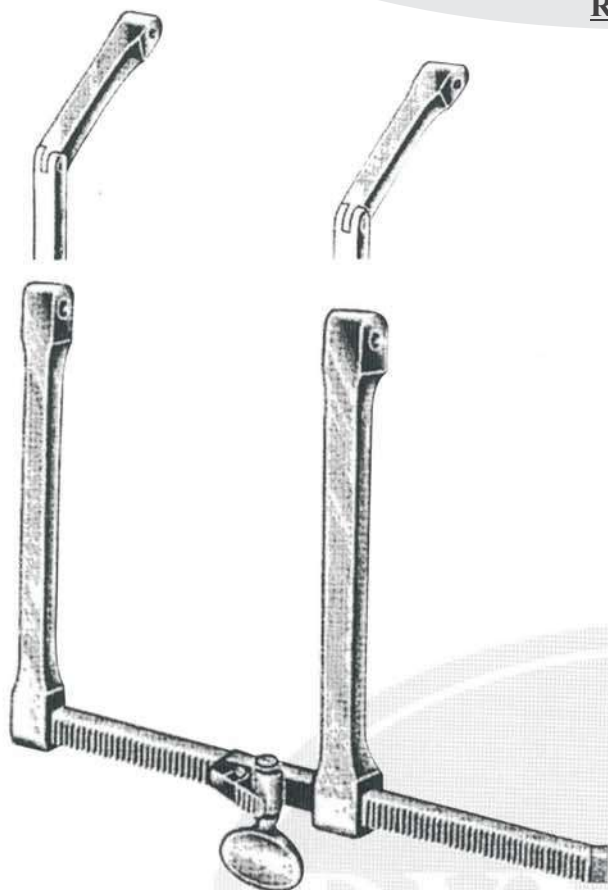
160-167-03
40 mm x 25 mm
Blade only, 3 prong



160-165-21 Scoville- Richter



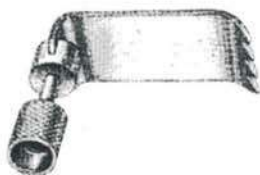
160-167-00 Sheldon
complete with 2 toothed blades
and 1 3-pronged blade



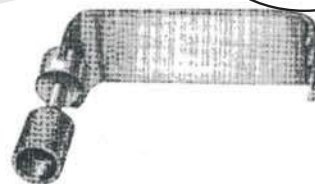
160-170-18 Scoville Hemilaminectomy Retractor Body
160-171-18 Haverfield-scoville Hemilaminectomy Retractor Body (hinged)



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



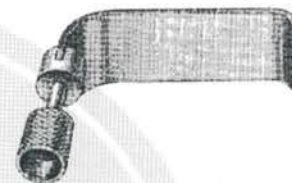
160-174-01 Hibbs blades
160-174-02 25 mm width x 51 mm depth
160-174-03 51 mm width x 50 mm depth
160-174-04 25 mm width x 38 mm depth
160-174-05 38 mm width x 38 mm depth
160-174-06 25 mm width x 76 mm depth
160-174-07 38 mm width x 76 mm depth
160-174-08 51 mm width x 76 mm depth
160-174-09 25 mm width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



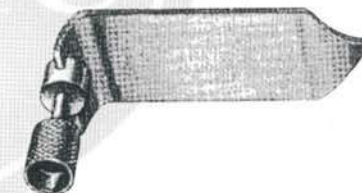
160-175-01 Scoville Blades, solid
160-175-02 25 mm width x 64 mm depth
160-175-03 51 mm width x 64 mm depth
160-175-04 29 mm width x 67 mm depth
160-175-04 25 mm width x 89 mm depth



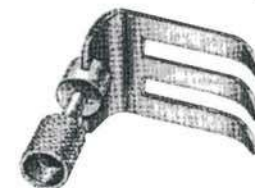
160-176-01 Scoville Blades, 4 prong
160-176-02 38 mm width x 41 mm depth
160-176-02 48 mm width x 67 mm depth



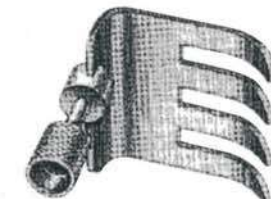
160-177-01 Meyerding Blades
160-177-02 25 mm width x 57 mm depth
160-177-03 25 mm width x 67 mm depth
160-177-03 51 mm width x 89 mm depth



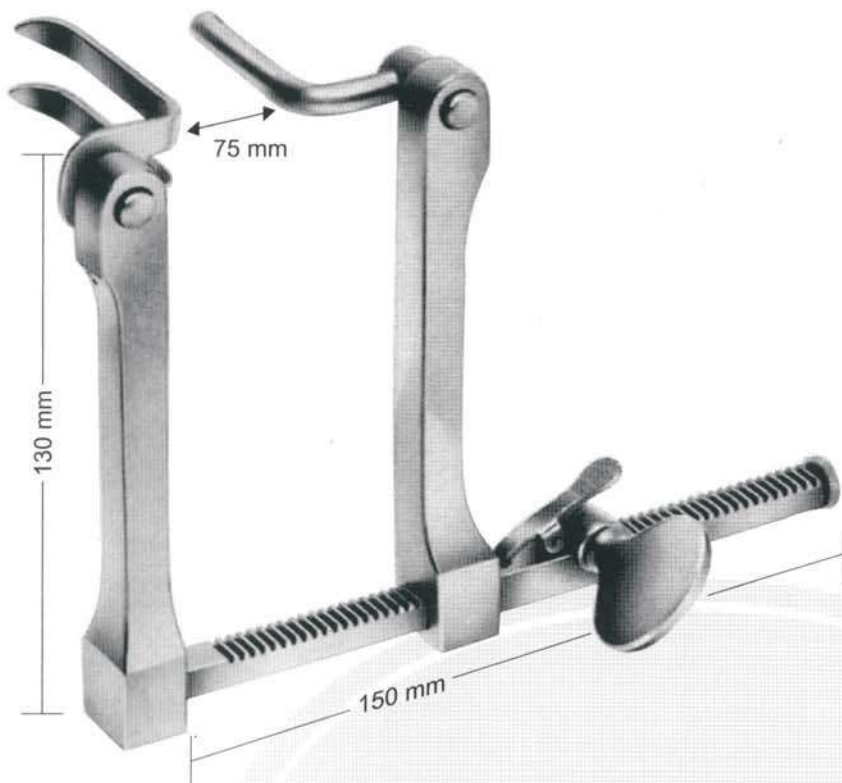
160-178-01 Taylor Spinal Blades
160-178-02 32 mm width x 76 mm depth
160-178-02 32 mm width x 102 mm depth



160-179-01 Taylor Laminectomy Blades, 3 prong
160-179-01 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
160-180-03 57 mm width x 76 mm depth



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



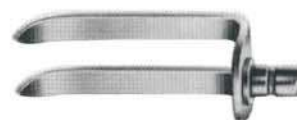
- 160-188-01** 45 x 23 mm
- 160-188-02** 50 x 23 mm
- 160-188-03** 55 x 23 mm
- 160-188-04** 60 x 23 mm
- 160-188-05** 65 x 23 mm



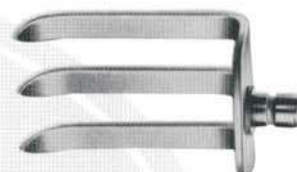
160-189-01 Hook 50 mm



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