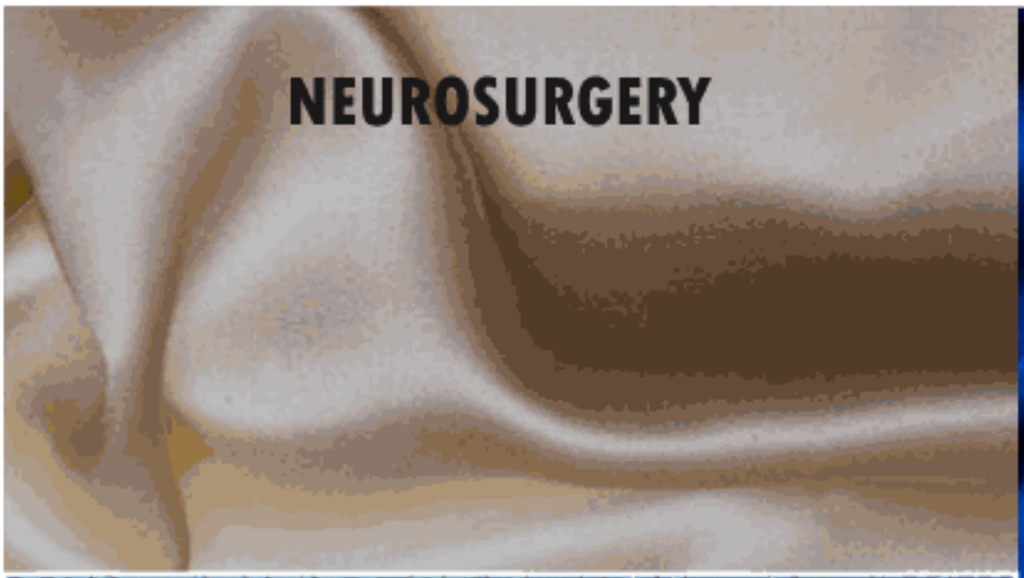
NEUROSURGERY











Crutchfield
Traction Tongs
F11-001 **13cm**
small



Crutchfield drill bit
F11-002 3.5mm



Crutchfield drill bit
F11-003 5.0mm

Set of 2 Pieces for
F11-001 and **F11-004**



Crutchfield
Traction Tongs
F11-004 18.5cm



Crutchfield Skull
F11-005
large type, cervical traction tongs-pins adjustable no drilling to be done 11cm



F11-006
Wrench double ended for **F11-005**



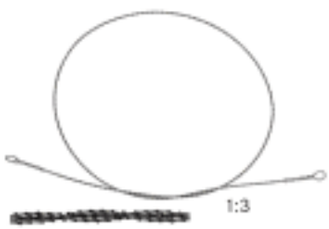
De Martel
Saw Conductor
F11-007
33cm 13"



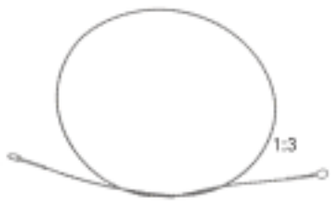
Adson
Drill guide
F11-008
15cm 6"



De Vilbiss
Skull Forceps
F11-009
20cm 8 1/4"



Olivecrona
Wire Saw
F11-010 30cm 12"
F11-011 40cm 16"
F11-012 50cm 20"
F11-013 60cm 23 ½"
F11-014 70cm 27 ½"



Gigle, Wire Saw
F11-015 30cm 12"
F11-016 40cm 16"
F11-017 50cm 20"
6 wires twisted



Gigle-Strully
Handle for wire saw
F11-018



Supra Cut Distraction Screw
F11-019 12mm Non Sterile
F11-020 14mm Non Sterile
F11-021 16mm Non Sterile
F11-022 18mm Non Sterile
F11-023 12mm Sterile
F11-024 14mm Sterile
F11-025 16mm Sterile
F11-026 18mm Sterile



Supra Cut Distraction Screw Driver
F11-027



Cushing, brain spatula
F11-028 7mm x 9mm
F11-029 11mm x 13mm
F11-030 15mm x 18mm
F11-031 18mm x 22mm
18cm 7"



Olivecrona
F11-032
brain spatula
18cm 7"



Brain Spatula
F11-033 7mm x 9mm
F11-034 11mm x 13mm
F11-035 15mm x 18mm
F11-036 18mm x 22mm
18cm 7", Convex



Brain Spatula
F11-037 7mm x 9mm
F11-038 11mm x 13mm
F11-039 15mm x 18mm
F11-040 18mm x 22mm
18cm 7", Concave



Helfetz, brain spatula
F11-041 8mm
F11-042 11mm
F11-043 14mm
F11-044 17mm
F11-045 20mm
20cm 8", Malleable





F11-046
15cm 6"
F11-047
19cm 7 ½"
Straight

F11-048
15cm 6"
F11-049
19cm 7 ½"
Curved

McKenzie Clip Applying Forceps



McKenzie
F11-050 148mm x 40mm x 6mm
5 3/4" x 1 ½" x ½", Brain clip rack for 20 clips



McKenzie Clip Applying Forceps
F11-051
Straight Handle, Curved Jaws, 6"



McKenzie Clip Applying Forceps
F11-052
Curved Handle, Curved Jaws, 6"



Smithwick Clip Applying Forceps
F11-053
9", Curved Jaws
Straight Handle



Smithwick Clip Applying Forceps
F11-054
10 1/2", Curved Jaws
Straight Handle



Smithwick Clip Applying Forceps
F11-055
10 1/2", Straight Jaws
Straight Handle





Schwartz Clip Applying Forceps
F11-056 20.3cm 8"
Schwartz Vessel Clip
F11-057 1" (2.5cm), Straight Jaws 1.7x 8mm
F11-058 1" (2.5cm), Slightly Angled Jaws 1.7x 8mm
F11-059 1" (2.5cm), Strong Angled Jaws 1.7x 8mm

Nervenhaken - Durahaken | Ganchos para nervios - Ganchos para duramadre
Crochets a nerfs - Crochets pour duremers | Uncini per nervi - Uncini per duramadre



F11-060
15cm 6"

F11-061
19cm 7 ½"

Toennis Nerve Dura Hook



Halle Nerve Dura Hook
F11-062
20cm 8"



Smithwick Nerve Dura Hook
F11-063 17cm 6 3/4"
F11-064 21cm 8 1/4"



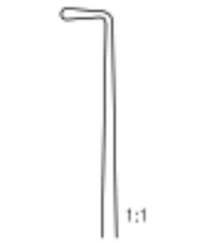
Hoen Nerve Dura Hook
F11-065
22cm 8 3/4"



Cushing Nerve Dura Hook



F11-066 19cm 7 ½"
F11-067 28cm 11"



F11-068 19cm 7 ½"
F11-069 28cm 11"

DURA DISSECTORS



Penfield Dura Dissector
F11-070
17.5cm 7"



Penfield Dura Dissector
F11-071
19.5cm 7 3/4"



Penfield Dura Dissector
F11-072
19.5cm 7 3/4"



Penfield Dura Dissector
F11-073
19.5cm 7 3/4"



Penfield Dura Dissector
F11-074
19.5cm 7 3/4"

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Love Nerve Dura Hook Retractor
F11-075
19cm 7 ½"
Straight



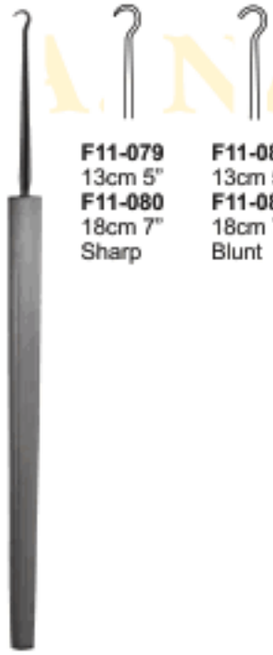
Love Nerve Dura Hook Retractor
F11-076
19cm 7 ½"
45° Angled



Love Nerve Dura Hook Retractor
F11-077
19cm 7 ½"
90° Angled



Cushing Nerve Dura Hook Retractor
F11-078
14cm 5 ½"



F11-079 13cm 5" **F11-080** 18cm 7" Sharp

F11-081 13cm 5" **F11-082** 18cm 7" Blunt

Frazier Nerve Dura Hook Retractor



Lahey Nerve Dura Hook Retractor
F11-083
13cm 5"



Yasargil Nerve Dura Hook Retractor
F11-084 21cm 12 1/4"
F11-085 41cm 16 1/4"
Galea retractor



Toennis Dura Dissector
F11-086
25cm 9 3/4



Davis Dura Dissector
F11-087
24.5cm 9 3/4



Dura Dissector
F11-088
22cm 8 3/4



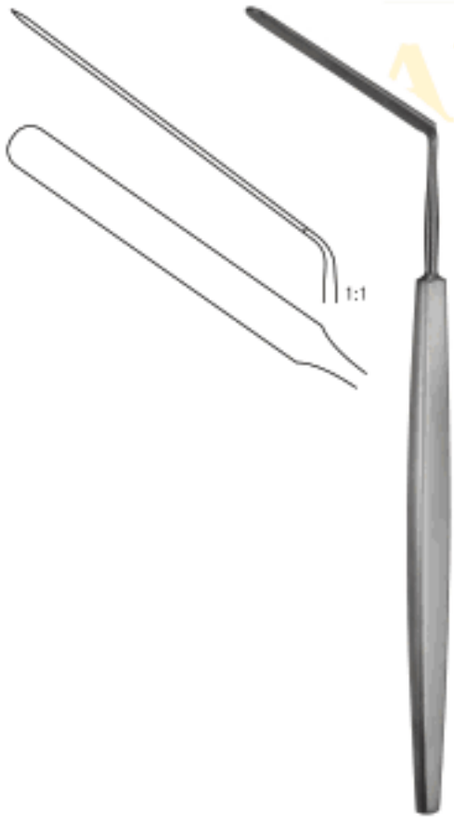
Sachs Dura Dissector
F11-089
21cm 8 1/4"



Sachs Dura Dissector
F11-090
21cm 8 1/4"



Sachs Dura Dissector
F11-091
21cm 8 1/4"



Horsley Dura Dissector
F11-092
20cm 8"



Smithwich Dura Dissector
F11-093
30.5cm 12"

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Laminektomiestanzen | *Pinzas cortantes para laminectomia*

Pinces emporte-pieces a laminectomie | *Pinze taglienti per laminectomia*



Cushing Intervertebral Disc Rongeurs

2 X 10mm, 6"		2 X 10mm, 9"	
F11-094	straight	**F11-106**	straight
F11-095	UP	**F11-107**	UP
F11-096	Down	**F11-108**	Down
1.5 X 10mm, 7"		2 X 10mm, 10"	
F11-097	straight	**F11-109**	straight
F11-098	Up	**F11-110**	UP
F11-099	Down	**F11-111**	Down
2 X 10mm, 7"		2 X 10mm, 11"	
F11-100	straight	**F11-112**	straight
F11-101	UP	**F11-113**	UP
F11-102	Down	**F11-114**	Down
1.5 X 10mm, 9"		2 X 10mm, 12"	
F11-103	straight	**F11-115**	straight
F11-104	Up	**F11-116**	UP
F11-105	Down	**F11-117**	Down



Love-Gruenwald Intervertebral Disc Rongeurs

3 X 10mm, 6"		3 X 10mm, 10"	
F11-118	straight	**F11-127**	straight
F11-119	Up	**F11-128**	Up
F11-120	Down	**F11-129**	Down
3 X 10mm, 7"		3 X 10mm, 11"	
F11-121	straight	**F11-130**	straight
F11-122	Up	**F11-131**	Up
F11-123	Down	**F11-132**	Down
3 X 10mm, 9"		3 X 10mm, 12"	
F11-124	straight	**F11-133**	straight
F11-125	Up	**F11-134**	Up
F11-126	Down	**F11-135**	Down



Spurling Intervertebral Disc Rongeurs

4 X 10mm, 6"		4 X 10mm, 10"	
F11-136	straight	**F11-145**	straight
F11-137	Up	**F11-146**	Up
F11-138	Down	**F11-147**	Down
4 X 10mm, 7"		4 X 10mm, 11"	
F11-139	straight	**F11-148**	straight
F11-140	Up	**F11-149**	Up
F11-141	Down	**F11-150**	Down
4 X 10mm, 9"		4 X 10mm, 12"	
F11-142	straight	**F11-151**	straight
F11-143	Up	**F11-152**	Up
F11-144	Down	**F11-153**	Down

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Micro Cup Forceps
5.5", 0.5mm

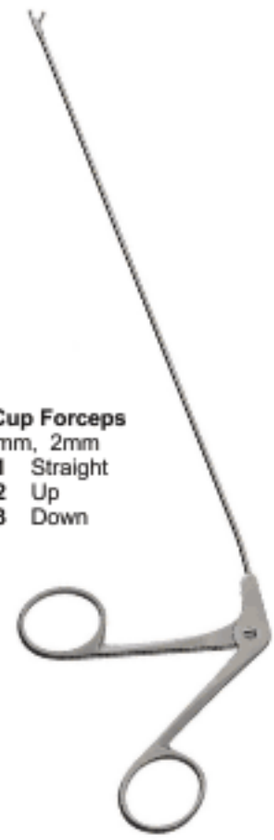
F11-154	Straight
F11-155	Right
F11-156	Left

Micro Cup Forceps
5.5", 1mm

F11-157	Straight
F11-158	Right
F11-159	Left

5.5", 2mm

F11-160	Straight



Micro Cup Forceps
8", 200mm, 2mm

F11-161	Straight
F11-162	Up
F11-163	Down



Wilde Intervertebral Disc Rongeurs
7" Straight
F11-164 2.5mm
F11-165 3mm
F11-166 4mm
F11-167 5mm

7" Angled up
F11-168 2.5mm
F11-169 3mm
F11-170 4mm
F11-171 5mm

9" Straight
F11-172 3mm
F11-173 4mm
F11-174 5mm



Caspar Type Intervertebral Disc Rongeurs
6.25" Straight
F11-175 2 x 12mm
F11-176 3 x 12mm
F11-177 4 x 14mm
F11-178 5 x 14mm
F11-179 6 x 16mm

6.25" Up
F11-180 3 x 12mm
F11-181 4 x 14mm
F11-182 5 x 14mm

6.25" Down
F11-183 3 x 12mm
F11-184 4 x 14mm



Caspar Type Intervertebral Disc Rongeurs
7.25" Straight
F11-185 2 x 12mm
F11-186 3 x 12mm
F11-187 4 x 14mm
F11-188 5 x 14mm
F11-189 6 x 16mm

7.25" Up
F11-190 2 x 12mm
F11-191 3 x 12mm
F11-192 4 x 14mm
F11-193 5 x 14mm

7.25" Down
F11-194 2 x 12mm
F11-195 3 x 12mm
F11-196 4 x 14mm



Cushing Intervertebral Disc Rongeurs
w/teeth 2 x 10mm, 7"
F11-197 Straight
F11-198 Up
F11-199 Down

L-G Intervertebral Disc Rongeurs
w/teeth 3 x 10mm, 7"
F11-200 Straight
F11-201 Up
F11-202 Down

3 x 10mm, 10"
F11-203 Straight





		Fig. 1 3.0mm	Fig. 2 3.5mm	Fig. 2 4.5mm	Fig. 4 5.0mm	Fig. 5 5.5mm
0°	12cm 4 3/4" Straight	**F11-204**	**F11-205**	**F11-206**	**F11-207**	**F11-208**
45°	12cm 4 3/4" 45° up	**F11-209**	**F11-210**	**F11-211**	**F11-212**	**F11-213**
90°	12cm 4 3/4" 90° up	**F11-214**	**F11-215**	**F11-216**		
45°	18cm 7" 45° up	Fig. 1 3.0mm **F11-217**	Fig. 2 3.5mm **F11-218**	Fig. 2 4.5mm **F11-219**	Fig. 4 5.0mm **F11-220**	Fig. 5 5.5mm **F11-221**
90°	18cm 7" 90° up	**F11-222**	**F11-223**	**F11-224**	**F11-225**	

Well Blakesley Laminectomy rongeurs

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Spurling Intervertebral Disc Rongeurs
w/teeth 4 x 10mm, 7"
F11-226 Straight
F11-227 Up
F11-228 Down

4 x 10mm, 10"
F11-229 Straight

5 x 10mm, 10"
F11-230 Straight



Schlesinger Intervertebral Disc Rongeurs
F11-231 2 x 10mm, 5" Straight
F11-232 3 x 10mm, 5" Straight
F11-233 4 x 10mm, 5" Straight
F11-234 3 x 10mm, 5" Angled Up



Cloward Intervertebral Disc Rongeurs
serrated 6 x 10mm, 5"
F11-235 Straight
F11-236 Up
F11-237 Down



Oldberg Intervertebral Disc Rongeurs
F11-238 6mm Diameter
7-1/8"



Selverstone Intervertebral Disc Rongeurs
F11-239 2 x 3mm, 6"
F11-240 2 x 5mm, 6"

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Cushing Intervertebral Disc Rongeurs
2 X 10mm, 5"
F11-241 Straight
F11-242 UP
F11-243 Down

Love-Gruenwald Intervertebral Disc Rongeurs
3 X 10mm, 5"
F11-244 Straight
F11-245 Up
F11-246 Down



Spurling Intervertebral Disc Rongeurs
4 X 10mm, 5"
F11-247 Straight
F11-248 Up
F11-249 Down

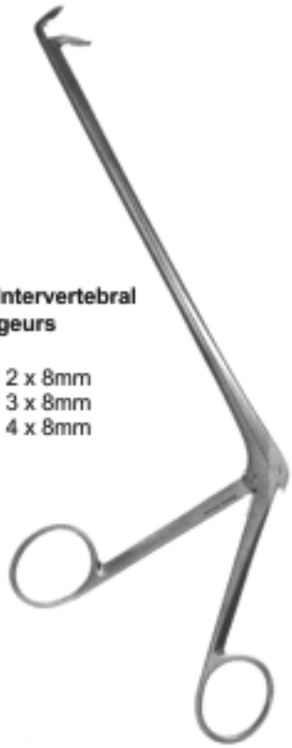
Peapod Intervertebral Disc Rongeurs, 5-1/2"
F11-250 Angle up 1.5mm, x-small
F11-251 Angle up 2mm, small
F11-252 Angle up 2.5mm, medium
F11-253 Angle up 3mm, large



Peapod Intervertebral Disc Rongeurs,
F11-254 Angle up 2.5mm, 7"
F11-255 Angle up 3mm, 7"
F11-256 Angle up 4mm, 7"
F11-257 Straight 2mm, 5-1/2"
F11-258 Straight 2.5mm, 5-1/2"
F11-259 Straight 3mm, 5-1/2"



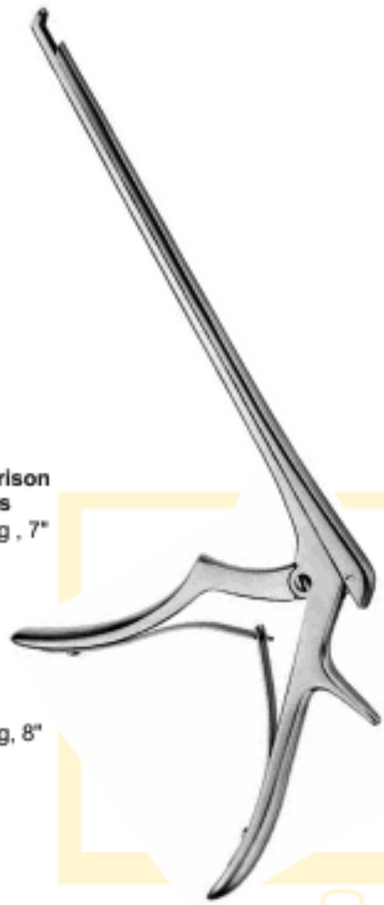
Decker Intervertebral Disc Rongeurs
2 x 5mm, 6"
F11-260 Right
F11-261 Left
F11-262 Down
F11-263 Up
F11-264 Straight



Jackson Intervertebral Disc Rongeurs
70° Up 7"
F11-265 2 x 8mm
F11-266 3 x 8mm
F11-267 4 x 8mm



Williams Style Micro Disc Intervertebral Disc Rongeurs
1 x 2 teeth, Straight
F11-268 5.5"
F11-269 7"
F11-270 10"



Ferris Smith Micro Kerrison Laminectomy Rongeurs

90° UP 9mm bite opening , 7"

F11-271 1mm
F11-272 2mm
F11-273 3mm
F11-274 4mm
F11-275 5mm
F11-276 6mm

90° UP 9mm bite opening, 8"

F11-277 1mm
F11-278 2mm
F11-279 3mm
F11-280 4mm
F11-281 5mm
F11-282 6mm



Ferris Smith Micro Kerrison Laminectomy Rongeurs

90° Down 9mm bite opening, 7"

F11-283 1mm
F11-284 2mm
F11-285 3mm
F11-286 4mm
F11-287 5mm
F11-288 6mm

90° Down 9mm bite opening, 8"

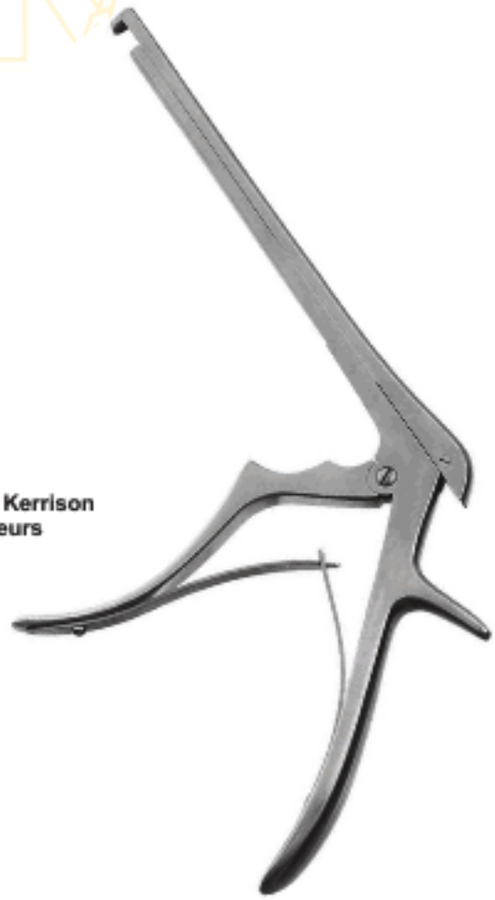
F11-289 1mm
F11-290 2mm
F11-291 3mm
F11-292 4mm
F11-293 5mm
F11-294 6mm



Micro Ejector Kerrison Laminectomy Rongeurs

40° Up 8"

F11-295 2mm
F11-296 3mm
F11-297 4mm
F11-298 5mm
F11-299 6mm



Wide Mouth Ejector Kerrison Laminectomy Rongeurs

40° Up 7"

F11-300 2mm
F11-301 3mm
F11-302 4mm
F11-303 5mm
F11-304 6mm

40° Up 8"

F11-305 2mm
F11-306 3mm
F11-307 4mm
F11-308 5mm
F11-309 6mm



Ferris-Smith Intervertebral Disc Rongeurs
7" straight
F11-310 2 x 10mm
F11-311 3 x 10mm
F11-312 4 x 8mm
F11-313 4 x 10mm
F11-314 6 x 10mm
F11-315 6 x 12mm



Ferris-Smith Intervertebral Disc Rongeurs
7" Up
F11-316 2 x 10mm
F11-317 3 x 10mm
F11-318 4 x 10mm
F11-319 6 x 10mm

7" Down
F11-320 2 x 10mm
F11-321 3 x 10mm
F11-322 4 x 10mm
F11-323 6 x 10mm



Ferris Smith Micro Kerrison Laminectomy Rongeurs

130° Down Bite, 11"
F11-324 4mm
F11-325 5mm
F11-326 6mm

130° Down Bite, 12"
F11-327 1mm
F11-328 2mm
F11-329 3mm
F11-330 4mm
F11-331 5mm
F11-332 6mm



Kerrison Cervical Rongeur
F11-333
17.8 cm 7" shaft, 3 mm
40 degree forward angle



Schlesinger Cervical Rongeur
F11-334
thin tips, 6" (15.2 cm) shaft,
up-bite, 3 mm



Ferris Smith Micro Kerrison Laminectomy Rongeurs Upward

40° UP
9mm bite opening, 7"
F11-335
F11-336 1mm
F11-337 2mm
F11-338 3mm
F11-339 4mm
F11-340 5mm
F11-341 6mm

40° Down
9mm bite opening, 7"
F11-342 2mm
F11-343 3mm
F11-344 4mm
F11-345 5mm
F11-346 6mm

40° UP
9mm bite opening, 8"
F11-347 1mm
F11-349 2mm
F11-350 3mm
F11-351 4mm
F11-352 5mm
F11-353 6mm

40° Down
9mm bite opening, 8"
F11-354 1mm
F11-355 2mm
F11-356 3mm
F11-357 4mm
F11-358 5mm
F11-359 6mm

40° UP
9mm bite opening, 9"
F11-360 1mm
F11-361 2mm
F11-362 3mm
F11-363 4mm
F11-364 5mm
F11-365 6mm

40° UP
9mm bite opening, 10"
F11-366 2mm
F11-367 3mm
F11-368 4mm
F11-369 5mm
F11-370 6mm

40° UP
9mm bite opening,
F11-371 2mm
F11-372 3mm
F11-373 4mm
F11-374 5mm
F11-375 6mm

40° UP
9mm bite opening, 12"
F11-376 2mm
F11-377 3mm
F11-378 4mm
F11-379 5mm
F11-380 6mm



Ferris Smith Micro Kerrison Laminectomy Rongeurs Downward

130° Down
9mm bite opening, 7"
F11-381 1mm
F11-382 2mm
F11-383 3mm
F11-384 4mm
F11-385 5mm
F11-386 6mm

130° Down
9mm bite opening, 8"
F11-387 1mm
F11-388 2mm
F11-389 3mm
F11-390 4mm
F11-391 5mm
F11-392 6mm

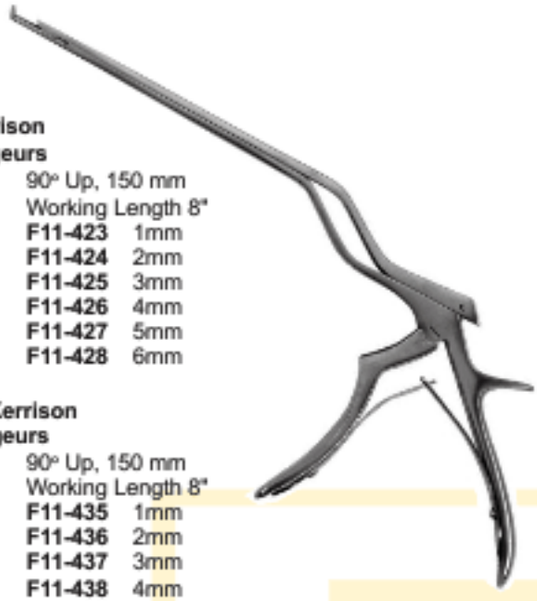
130° Down
9mm bite opening, 9"
F11-393 1mm
F11-394 2mm
F11-395 3mm
F11-396 4mm
F11-397 5mm
F11-398 6mm

130° Down
9mm bite opening, 10"
F11-399 1mm
F11-400 2mm
F11-401 3mm
F11-402 4mm
F11-403 5mm
F11-404 6mm

130° Down
9mm bite opening, 11"
F11-405 1mm
F11-406 2mm
F11-407 3mm
F11-408 4mm
F11-409 5mm
F11-410 6mm

130° Down
9mm bite opening, 12"
F11-411 1mm
F11-412 2mm
F11-413 3mm
F11-414 4mm
F11-415 5mm
F11-416 6mm

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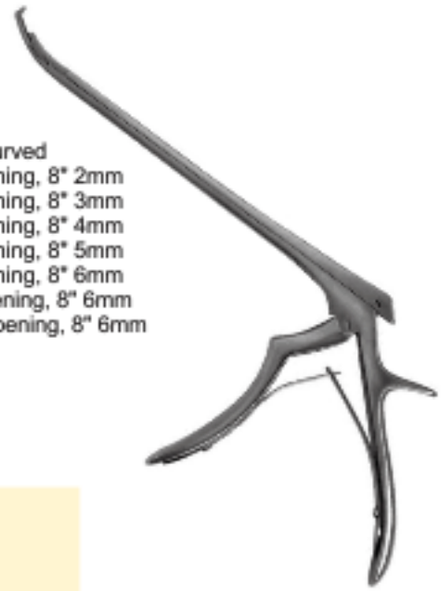


Bayonet Micro Kerrison Laminectomy Rongeurs

40° Up, 150 mm Working Length 8"		90° Up, 150 mm Working Length 8"	
F11-417	1mm	**F11-423**	1mm
F11-418	2mm	**F11-424**	2mm
F11-419	3mm	**F11-425**	3mm
F11-420	4mm	**F11-426**	4mm
F11-421	5mm	**F11-427**	5mm
F11-422	6mm	**F11-428**	6mm

Bayonet Spurling Kerrison Laminectomy Rongeurs

40° Up, 150 mm Working Length 8"		90° Up, 150 mm Working Length 8"	
F11-429	1mm	**F11-435**	1mm
F11-430	2mm	**F11-436**	2mm
F11-431	3mm	**F11-437**	3mm
F11-432	4mm	**F11-438**	4mm
F11-433	5mm	**F11-439**	5mm
F11-434	6mm	**F11-440**	6mm



Foramenotomy Kerrison Laminectomy Rongeurs, Curved

F11-441	UP, 9mm Bite opening, 8" 2mm
F11-442	UP, 9mm Bite opening, 8" 3mm
F11-443	UP, 9mm Bite opening, 8" 4mm
F11-444	UP, 9mm Bite opening, 8" 5mm
F11-445	UP, 9mm Bite opening, 8" 6mm
F11-446	Left, 9mm Bite opening, 8" 6mm
F11-447	Right, 9mm Bite opening, 8" 6mm



40° UP,
15mm Bite Opening, 7"

F11-448	2mm
F11-449	3mm
F11-450	4mm
F11-451	5mm
F11-452	6mm

40° UP,
15mm Bite Opening, 8"

F11-453	2mm
F11-454	3mm
F11-455	4mm
F11-456	5mm
F11-457	6mm

Spurling Kerrison Laminectomy Rongeurs
Large Handle



Spurling Laminectomy Rongeurs

40° UP,
15mm Bite Opening, 9"

F11-458	2mm
F11-459	3mm
F11-460	4mm
F11-461	5mm
F11-462	6mm

40° UP, 15mm Bite Opening, 7"		40° UP, 15mm Bite Opening, 9"	
F11-493	2mm	**F11-503**	2mm
F11-494	3mm	**F11-504**	3mm
F11-495	4mm	**F11-505**	4mm
F11-496	5mm	**F11-506**	5mm
F11-497	6mm	**F11-507**	6mm

40° UP, 15mm Bite Opening, 10"		90° UP, 15mm Bite Opening, 7"		90° Down, 15mm Bite Opening, 7"	
F11-463	2mm	**F11-473**	2mm	**F11-483**	2mm
F11-464	3mm	**F11-474**	3mm	**F11-484**	3mm
F11-465	4mm	**F11-475**	4mm	**F11-485**	4mm
F11-466	5mm	**F11-476**	5mm	**F11-486**	5mm
F11-467	6mm	**F11-477**	6mm	**F11-487**	6mm

40° UP, 15mm Bite Opening, 8"		40° UP, 15mm Bite Opening, 10"	
F11-498	2mm	**F11-508**	2mm
F11-499	3mm	**F11-509**	3mm
F11-500	4mm	**F11-510**	4mm
F11-501	5mm	**F11-511**	5mm
F11-502	6mm	**F11-512**	6mm

40° UP, 15mm Bite Opening, 11"		90° UP, 15mm Bite Opening, 8"		90° Down, 15mm Bite Opening, 8"	
F11-468	2mm	**F11-478**	2mm	**F11-488**	2mm
F11-469	3mm	**F11-479**	3mm	**F11-489**	3mm
F11-470	4mm	**F11-480**	4mm	**F11-490**	4mm
F11-471	5mm	**F11-481**	5mm	**F11-491**	5mm
F11-472	6mm	**F11-482**	6mm	**F11-492**	6mm

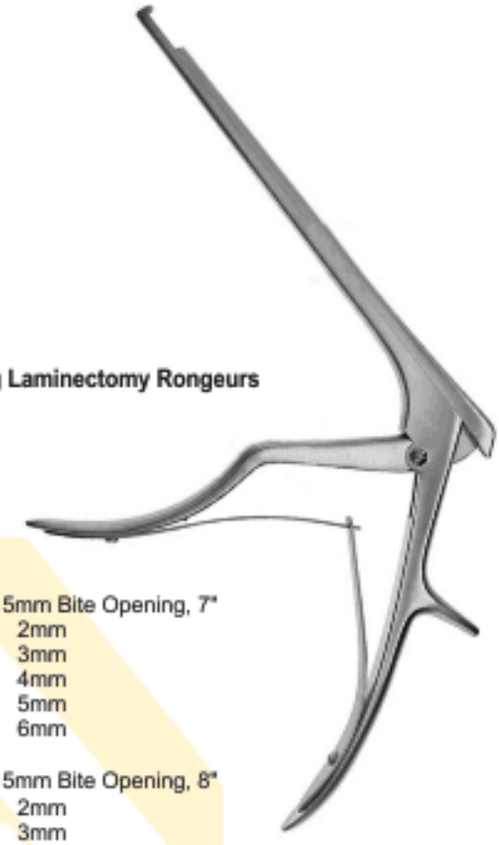
40° UP, 15mm Bite Opening, 11"	
F11-513	2mm
F11-514	3mm
F11-515	4mm
F11-516	5mm
F11-517	6mm



Spurling Laminectomy Rongeurs

90° Down, 15mm Bite
F11-518 2mm
F11-519 3mm
F11-520 4mm
F11-521 5mm
F11-522 6mm

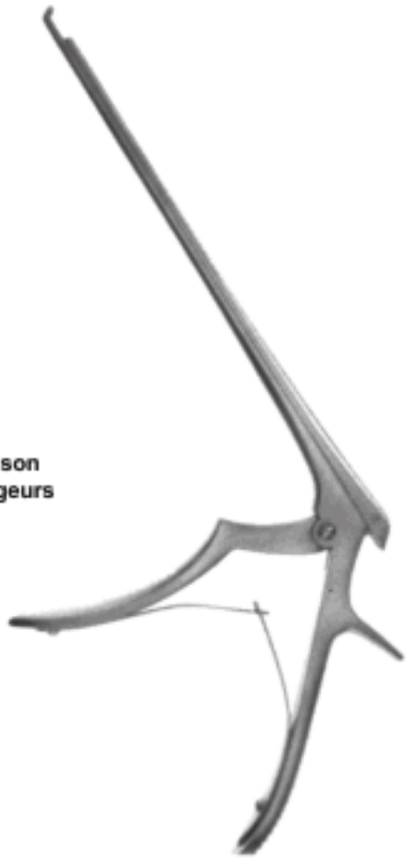
90° Down, 15mm Bite Opening, 8"
F11-523 2mm
F11-524 3mm
F11-525 4mm
F11-526 5mm
F11-527 6mm



Spurling Laminectomy Rongeurs

90° UP, 15mm Bite Opening, 7"
F11-528 2mm
F11-529 3mm
F11-530 4mm
F11-531 5mm
F11-532 6mm

90° UP, 15mm Bite Opening, 8"
F11-533 2mm
F11-534 3mm
F11-535 4mm
F11-536 5mm
F11-537 6mm



Micro Ejector Kerrison Laminectomy Rongeurs
40° Up 8"
F11-538 2mm
F11-539 3mm
F11-540 4mm
F11-541 5mm
F11-542 6mm

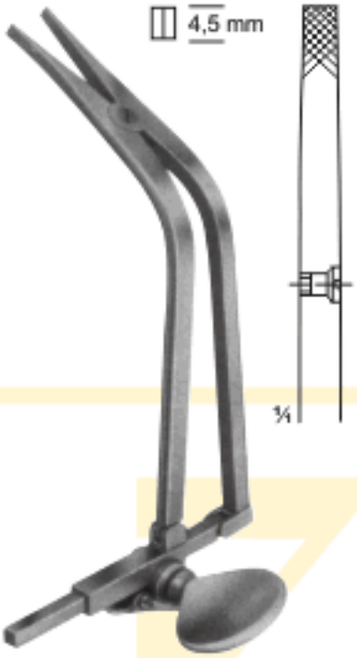


Wide Mouth Ejector Kerrison Laminectomy Rongeurs
40° Up 7"
F11-543 2mm
F11-544 3mm
F11-545 4mm
F11-546 5mm
F11-547 6mm

40° Up 8"
F11-548 2mm
F11-549 3mm
F11-550 4mm
F11-551 5mm
F11-552 6mm



Cloward Retractor
F11-553
15.5 cm, 6"



Cloward Retractor
F11-554
13.5 cm, 5 ¼"



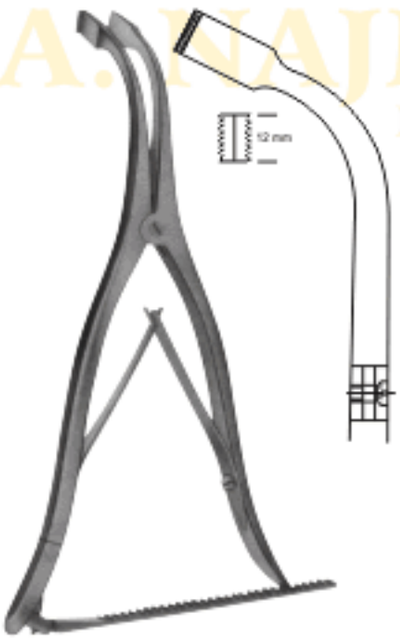
Cloward Vertibral Cervical Spreader
F11-555



Spinal Distractor
F11-556 24cm 9 ½"
45° angle / small style
1/4" rods



Inge Retractor
F11-557
17.0 cm, 6 ¾"



Inge Retractor
F11-558
27.5 cm, 10 ¾"



Spinal Distractor
F11-559 25.5cm 10"
small style



Inge Retractor
F11-560 20cm 8"
toothed w/spindle

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