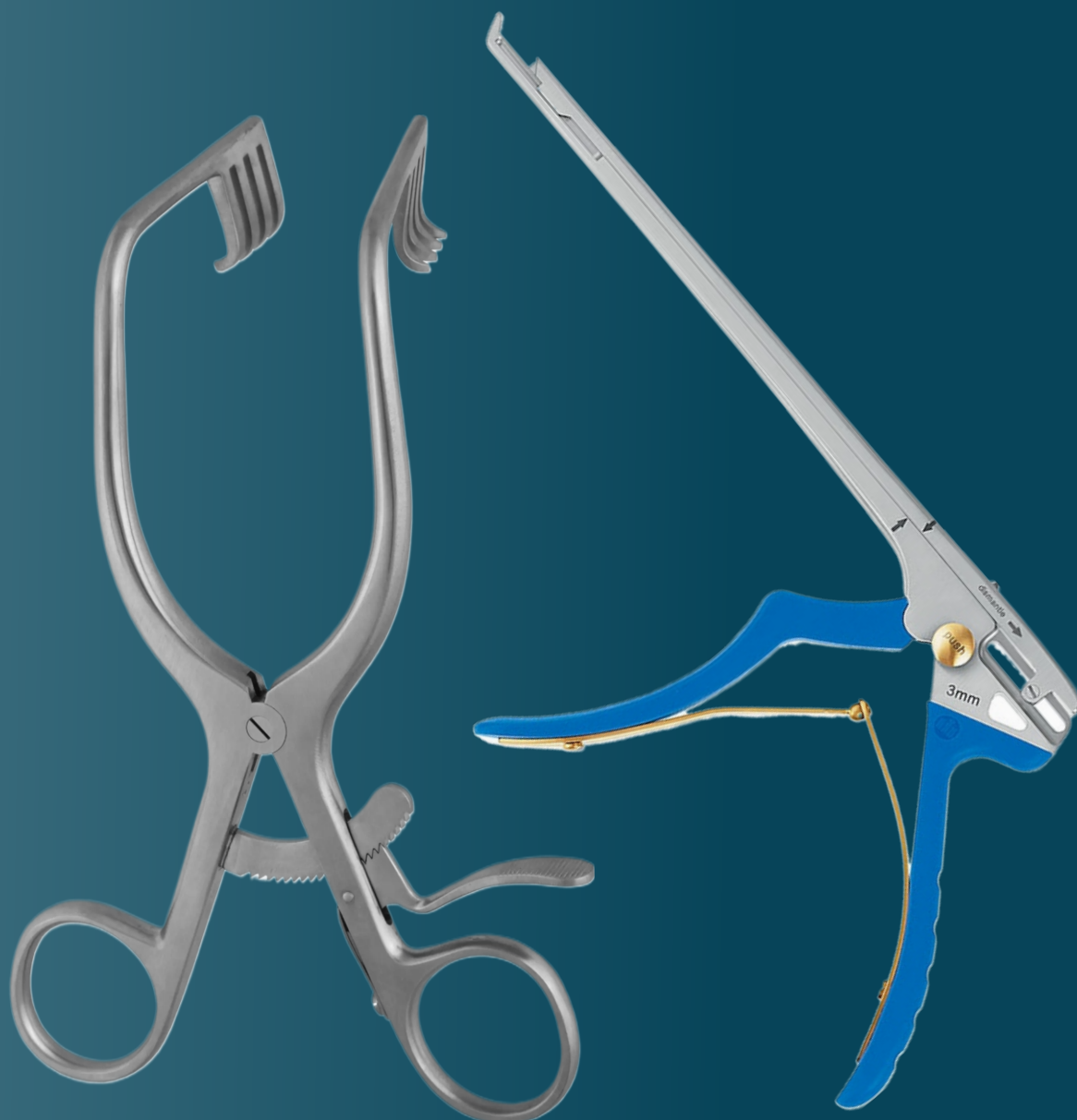


PENTAX SURGICAL

Manufacturer of all kind of Neuro and Spine Instruments

2026-2030 CATALOGUE | EDITION



A photograph of a modern, multi-story building with a light-colored facade and many windows. The building has a sign that reads "PENTAX SURGICAL" on its side. The image is used as a background for the text.

About Us!

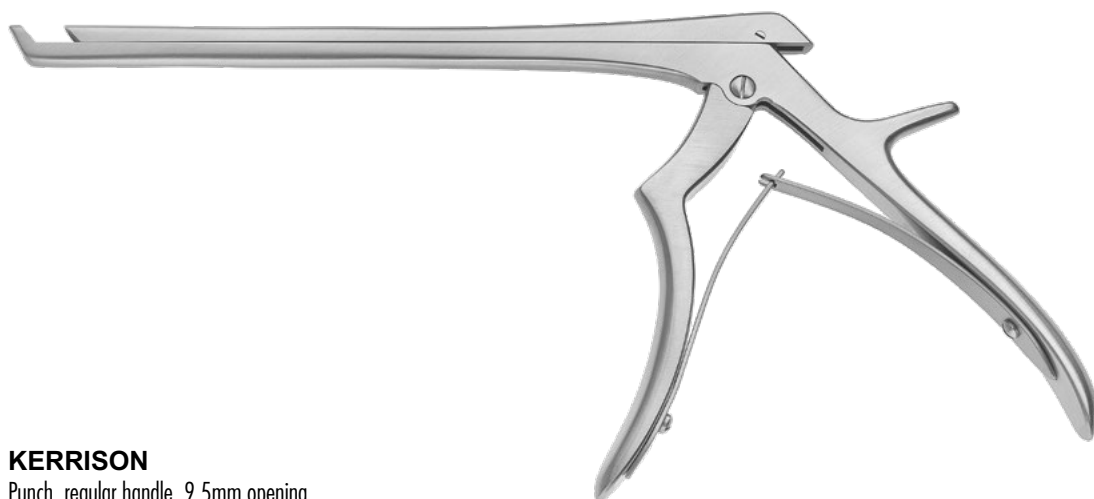
ABOUT US

WELCOME TO PENTAX SURGICAL

Established in 2008, PENTAX SURGICAL is on a mission to redefine the industry by proving that quality doesn't have to be sacrificed for competitiveness. Our commitment revolves around producing high-quality instruments at prices that keep you smiling. From our humble beginnings as a family-run veriure, we've evolved into a significant player in the market.

Our mission is clear to instill confidence in our clients by delivering Instruments of the highest quality at prices that make sense. We understand that the key to succes lies in customer satisfaction and loyalty, which forms the core of our vision. As we grow, our focus reamins on fostering strong relationorships with our customers

At PENTAX SURGICAL, we firmly believe that quality is never accidental, it's the outcome of thoughtful and intelligent effort Each instrument we produce reflects this commitment to excellence, ensuring you receive products that exceed expectations. Join us on our journey as we continue to set new standards in quality and customer satisfaction.



KERRISON

Punch, regular handle, 9.5mm opening



40° upwards cutting
180mm, 7"

1mm	250-400-181
2mm	250-400-182
3mm	250-400-183
4mm	250-400-184
5mm	250-400-185
6mm	250-400-186

200mm, 8"

1mm	250-400-201
2mm	250-400-202
3mm	250-400-203
4mm	250-400-204
5mm	250-400-205
6mm	250-400-206

230mm, 9"

1mm	250-400-231
2mm	250-400-232
3mm	250-400-233
4mm	250-400-234
5mm	250-400-235
6mm	250-400-236



90° upwards cutting
180mm, 7"

1mm	250-410-181
2mm	250-410-182
3mm	250-410-183
4mm	250-410-184
5mm	250-410-185
6mm	250-410-186

200mm, 8"

1mm	250-410-201
2mm	250-410-202
3mm	250-410-203
4mm	250-410-204
5mm	250-410-205
6mm	250-410-206

230mm, 9"

1mm	250-410-231
2mm	250-410-232
3mm	250-410-233
4mm	250-410-234
5mm	250-410-235
6mm	250-410-236



40° downwards cutting
180mm, 7"

1mm	250-420-181
2mm	250-420-182
3mm	250-420-183
4mm	250-420-184
5mm	250-420-185
6mm	250-420-186

200mm, 8"

1mm	250-420-201
2mm	250-420-202
3mm	250-420-203
4mm	250-420-204
5mm	250-420-205
6mm	250-420-206

230mm, 9"

1mm	250-420-231
2mm	250-420-232
3mm	250-420-233
4mm	250-420-234
5mm	250-420-235
6mm	250-420-236



90° downwards cutting
180mm, 7"

1mm	250-430-181
2mm	250-430-182
3mm	250-430-183
4mm	250-430-184
5mm	250-430-185
6mm	250-430-186

200mm, 8"

1mm	250-430-201
2mm	250-430-202
3mm	250-430-203
4mm	250-430-204
5mm	250-430-205
6mm	250-430-206

230mm, 9"

1mm	250-430-231
2mm	250-430-232
3mm	250-430-233
4mm	250-430-234
5mm	250-430-235
6mm	250-430-236

All Kerrison instruments are available with CERACUT® coating. Code number + CC (e.g. 250-400-181CC)



KERRISON

Punch, large handle,
15.5mm opening

40° upwards cutting
180mm, 7"

1mm	250-450-181
2mm	250-450-182
3mm	250-450-183
4mm	250-450-184
5mm	250-450-185
6mm	250-450-186

200mm, 8"

1mm	250-450-201
2mm	250-450-202
3mm	250-450-203
4mm	250-450-204
5mm	250-450-205
6mm	250-450-206

230mm, 9"

1mm	250-450-231
2mm	250-450-232
3mm	250-450-233
4mm	250-450-234
5mm	250-450-235
6mm	250-450-236

90° upwards cutting
180mm, 7"

1mm	250-460-181
2mm	250-460-182
3mm	250-460-183
4mm	250-460-184
5mm	250-460-185
6mm	250-460-186

200mm, 8"

1mm	250-460-201
2mm	250-460-202
3mm	250-460-203
4mm	250-460-204
5mm	250-460-205
6mm	250-460-206

230mm, 9"

1mm	250-460-231
2mm	250-460-232
3mm	250-460-233
4mm	250-460-234
5mm	250-460-235
6mm	250-460-236

40° downwards cutting
180mm, 7"

1mm	250-470-181
2mm	250-470-182
3mm	250-470-183
4mm	250-470-184
5mm	250-470-185
6mm	250-470-186

200mm, 8"

1mm	250-470-201
2mm	250-470-202
3mm	250-470-203
4mm	250-470-204
5mm	250-470-205
6mm	250-470-206

230mm, 9"

1mm	250-470-231
2mm	250-470-232
3mm	250-470-233
4mm	250-470-234
5mm	250-470-235
6mm	250-470-236

90° downwards cutting
180mm, 7"

1mm	250-480-181
2mm	250-480-182
3mm	250-480-183
4mm	250-480-184
5mm	250-480-185
6mm	250-480-186

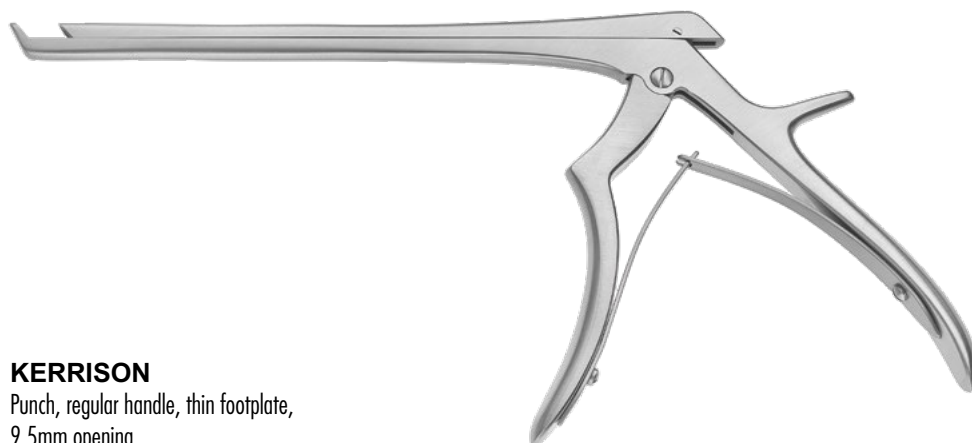
200mm, 8"

1mm	250-480-201
2mm	250-480-202
3mm	250-480-203
4mm	250-480-204
5mm	250-480-205
6mm	250-480-206

230mm, 9"

1mm	250-480-231
2mm	250-480-232
3mm	250-480-233
4mm	250-480-234
5mm	250-480-235
6mm	250-480-236

All Kerrison instruments are available with CERACUT® coating. Code number + CC (e.g. 250-400-181CC)



KERRISON

Punch, regular handle, thin footplate,
9.5mm opening

40° upwards cutting 180mm, 7"		90° upwards cutting 180mm, 7"		40° downwards cutting 180mm, 7"		90° downwards cutting 180mm, 7"	
1mm	250-401-181	1mm	250-411-181	1mm	250-421-181	1mm	250-431-181
2mm	250-401-182	2mm	250-411-182	2mm	250-421-182	2mm	250-431-182
3mm	250-401-183	3mm	250-411-183	3mm	250-421-183	3mm	250-431-183
4mm	250-401-184	4mm	250-411-184	4mm	250-421-184	4mm	250-431-184
5mm	250-401-185	5mm	250-411-185	5mm	250-421-185	5mm	250-431-185
200mm, 8"		200mm, 8"		200mm, 8"		200mm, 8"	
1mm	250-401-201	1mm	250-411-201	1mm	250-421-201	1mm	250-431-201
2mm	250-401-202	2mm	250-411-202	2mm	250-421-202	2mm	250-431-202
3mm	250-401-203	3mm	250-411-203	3mm	250-421-203	3mm	250-431-203
4mm	250-401-204	4mm	250-411-204	4mm	250-421-204	4mm	250-431-204
5mm	250-401-205	5mm	250-411-205	5mm	250-421-205	5mm	250-431-205
230mm, 9"		230mm, 9"		230mm, 9"		230mm, 9"	
1mm	250-401-231	1mm	250-411-231	1mm	250-421-231	1mm	250-431-231
2mm	250-401-232	2mm	250-411-231	2mm	250-421-231	2mm	250-431-231
3mm	250-401-233	3mm	250-411-231	3mm	250-421-231	3mm	250-431-231
4mm	250-401-234	4mm	250-411-231	4mm	250-421-231	4mm	250-431-231
5mm	250-401-235	5mm	250-411-231	5mm	250-421-231	5mm	250-431-231

All Kerrison instruments are available with CERACUT® coating. Code number + CC (e.g. 250-400-181CC)



KERRISON

Punch, regular handle, superflat footplate



180mm, 7"
40° upwards cutting

1mm	250-400-181SF
1.5mm	250-400-189SF
2mm	250-400-182SF
3mm	250-400-183SF
4mm	250-400-184SF
5mm	250-400-185SF
6mm	250-400-186SF

180mm, 7"
40° upwards cutting,
standard ejector

2mm	250-400-182ESF
3mm	250-400-183ESF
4mm	250-400-184ESF
5mm	250-400-185ESF
6mm	250-400-186ESF

180mm, 7"
40° upwards cutting, CERA-CUT®

1mm	250-400-181SFCC
2mm	250-400-182SFCC
3mm	250-400-183SFCC
4mm	250-400-184SFCC
5mm	250-400-185SFCC
6mm	250-400-186SFCC

200mm, 8"

1mm	250-400-201SF
1.5mm	250-400-209SF
2mm	250-400-202SF
3mm	250-400-203SF
4mm	250-400-204SF
5mm	250-400-205SF
6mm	250-400-206SF

200mm, 8"

2mm	250-400-202ESF
3mm	250-400-203ESF
4mm	250-400-204ESF
5mm	250-400-205ESF
6mm	250-400-206ESF

200mm, 8"

1mm	250-400-201SFCC
2mm	250-400-202SFCC
3mm	250-400-203SFCC
4mm	250-400-204SFCC
5mm	250-400-205SFCC
6mm	250-400-206SFCC

230mm, 9"

1mm	250-400-231SF
1.5mm	250-400-239SF
2mm	250-400-232SF
3mm	250-400-233SF
4mm	250-400-234SF
5mm	250-400-235SF
6mm	250-400-236SF

230mm, 9"

2mm	250-400-232ESF
3mm	250-400-233ESF
4mm	250-400-234ESF
5mm	250-400-235ESF
6mm	250-400-236ESF

230mm, 9"

1mm	250-400-231SFCC
2mm	250-400-232SFCC
3mm	250-400-233SFCC
4mm	250-400-234SFCC
5mm	250-400-235SFCC
6mm	250-400-236SFCC

All Kerrison instruments are available with coating. Code number + CC (e.g. 250-400-181CC)



KERRISON

Punch, regular handle, superflat footplate


180mm, 7"
90° upwards cutting

1mm	250-411-181SF
2mm	250-411-182SF
3mm	250-411-183SF
4mm	250-411-184SF
5mm	250-411-185SF
6mm	250-411-186SF

180mm, 7"
90° upwards cutting,
standard ejector

2mm	250-411-182ESF
3mm	250-411-183ESF
4mm	250-411-184ESF
5mm	250-411-185ESF
6mm	250-411-186ESF

180mm, 7"
90° upwards cutting, CERA-CUT®

1mm	250-411-181SFCC
2mm	250-411-182SFCC
3mm	250-411-183SFCC
4mm	250-411-184SFCC
5mm	250-411-185SFCC
6mm	250-411-186SFCC

200mm, 8"

1mm	250-411-201SF
2mm	250-411-202SF
3mm	250-411-203SF
4mm	250-411-204SF
5mm	250-411-205SF
6mm	250-411-206SF

200mm, 8"

2mm	250-411-202ESF
3mm	250-411-203ESF
4mm	250-411-204ESF
5mm	250-411-205ESF
6mm	250-411-206ESF

200mm, 8"

1mm	250-411-201SFCC
2mm	250-411-202SFCC
3mm	250-411-203SFCC
4mm	250-411-204SFCC
5mm	250-411-205SFCC
6mm	250-411-206SFCC

230mm, 9"

1mm	250-411-231SF
2mm	250-411-232SF
3mm	250-411-233SF
4mm	250-411-234SF
5mm	250-411-235SF
6mm	250-411-236SF

230mm, 9"

2mm	250-411-232ESF
3mm	250-411-233ESF
4mm	250-411-234ESF
5mm	250-411-235ESF
6mm	250-411-236ESF

230mm, 9"

1mm	250-411-231SFCC
2mm	250-411-232SFCC
3mm	250-411-233SFCC
4mm	250-411-234SFCC
5mm	250-411-235SFCC
6mm	250-411-236SFCC

All Kerrison instruments are available with CERACUT® coating. Code number + CC (e.g. 250-400-181CC)



KERRISON

Long Anterior Punch, regular handle,
9.5mm opening,
40° upwards cutting

15.5mm opening,
40° upwards cutting

250mm, 9⁷/₈"

2mm	250-400-252
3mm	250-400-253
4mm	250-400-254
5mm	250-400-255
6mm	250-400-256

280mm, 11"

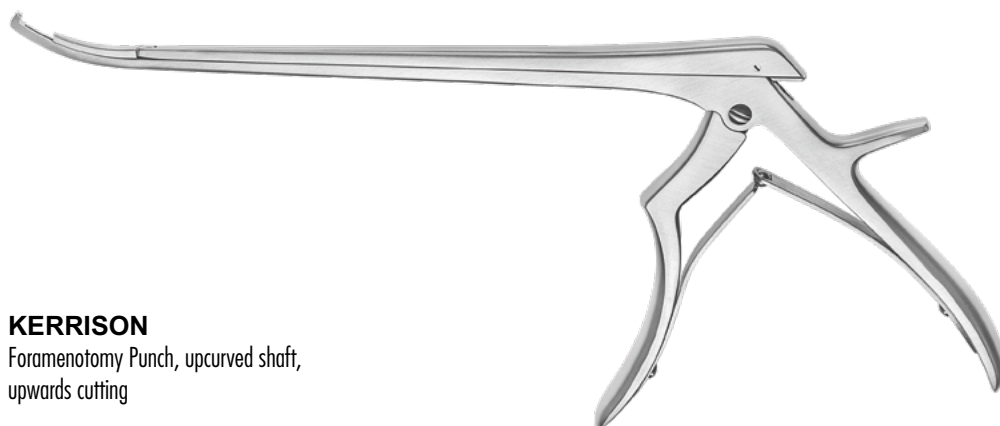
2mm	250-400-282
3mm	250-400-283
4mm	250-400-284
5mm	250-400-285
6mm	250-400-286

250mm, 9⁷/₈"

2mm	250-450-252
3mm	250-450-253
4mm	250-450-254
5mm	250-450-255
6mm	250-450-256

280mm, 11"

2mm	250-450-282
3mm	250-450-283
4mm	250-450-284
5mm	250-450-285
6mm	250-450-286



KERRISON

Foramenotomy Punch, upcurved shaft,
upwards cutting

180mm, 7"

2mm	210-728-002
3mm	210-728-003
4mm	210-728-004

200mm, 8"

2mm	210-728-102
3mm	210-728-103
4mm	210-728-104

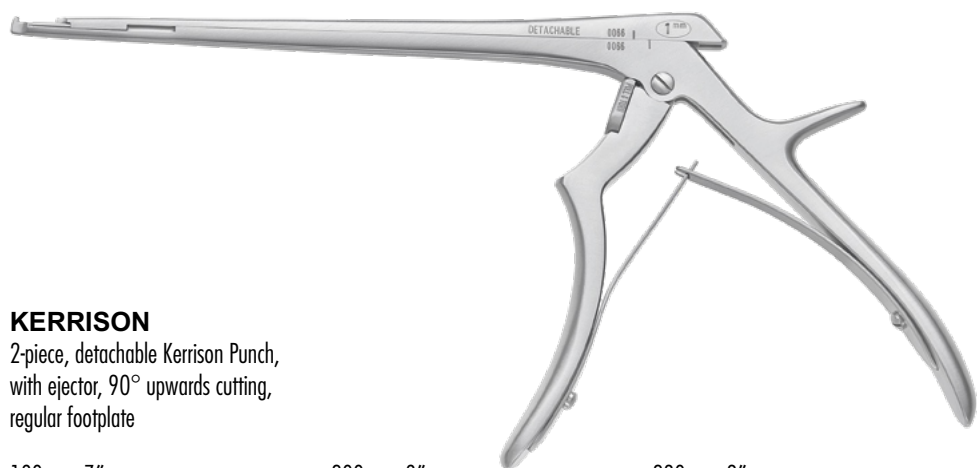
All Kerrison instruments are available with coating. Code number + CC (e.g. 250-400-181CC)



KERRISON

2-piece, detachable Kerrison Punch,
with ejector, 40° upwards cutting,
regular footplate

180mm, 7"		200mm, 8"		230mm, 9"	
1mm	250-500-181	1mm	250-500-201	1mm	250-500-231
2mm	250-500-182	2mm	250-500-202	2mm	250-500-232
3mm	250-500-183	3mm	250-500-203	3mm	250-500-233
4mm	250-500-184	4mm	250-500-204	4mm	250-500-234
5mm	250-500-185	5mm	250-500-205	5mm	250-500-235
6mm	250-500-186	6mm	250-500-206	6mm	250-500-236
thin footplate 180mm, 7"		thin footplate 200mm, 8"		thin footplate 230mm, 9"	
1mm	250-510-181	1mm	250-510-201	1mm	250-510-231
2mm	250-510-182	2mm	250-510-202	2mm	250-510-232
3mm	250-510-183	3mm	250-510-203	3mm	250-510-233
4mm	250-510-184	4mm	250-510-204	4mm	250-510-234

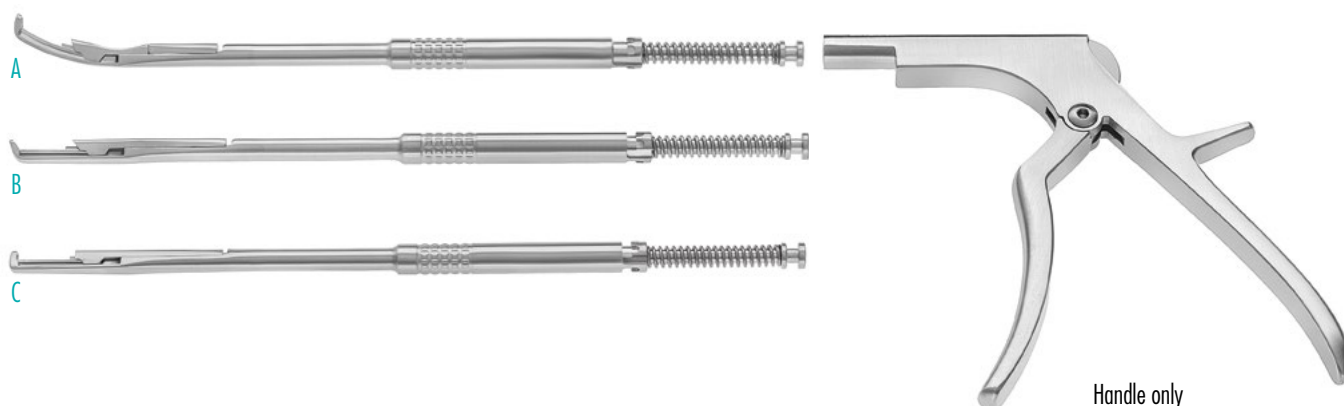


KERRISON

2-piece, detachable Kerrison Punch,
with ejector, 90° upwards cutting,
regular footplate

180mm, 7"		200mm, 8"		230mm, 9"	
1mm	250-590-181	1mm	250-590-201	1mm	250-590-231
2mm	250-590-182	2mm	250-590-202	2mm	250-590-232
3mm	250-590-183	3mm	250-590-203	3mm	250-590-233
4mm	250-590-184	4mm	250-590-204	4mm	250-590-234
5mm	250-590-185	5mm	250-590-205	5mm	250-590-235
6mm	250-590-186	6mm	250-590-206	6mm	250-590-236

All Kerrison instruments are available with coating. Code number + CC (e.g. 250-400-181CC)



Handle only

250-245-000

360° Foraminotomy Punch
exchangeable shaft, ejector, thin footplate
40° angled

180mm, 7"		200mm, 8"		230mm, 9"		250mm, 9 ⁷ / ₈ "	
2mm	250-280-182	2mm	250-280-202	2mm	250-280-232	2mm	250-280-252
3mm	250-280-183	3mm	250-280-203	3mm	250-280-233	3mm	250-280-253
4mm	250-280-184	4mm	250-280-204	4mm	250-280-234	4mm	250-280-254
5mm	250-280-185	5mm	250-280-205	5mm	250-280-235	5mm	250-280-255

360° Laminectomy Punch
exchangeable shaft, ejector, thin footplate
40° angled

180mm, 7"		200mm, 8"		230mm, 9"		250mm, 9 ⁷ / ₈ "	
1mm	250-210-181	1mm	250-210-201	1mm	250-210-231	1mm	250-210-251
1.5mm	250-210-180	1.5mm	250-210-200	2mm	250-210-232	2mm	250-210-252
2mm	250-210-182	2mm	250-210-202	3mm	250-210-233	3mm	250-210-253
3mm	250-210-183	3mm	250-210-203	4mm	250-210-234	4mm	250-210-254
4mm	250-210-183	4mm	250-210-204	5mm	250-210-235	5mm	250-210-255
5mm	250-210-185	5mm	250-210-205				

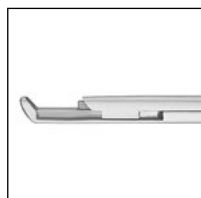
360° Laminectomy Punch
exchangeable shaft, ejector, thin footplate
90° angled

180mm, 7"		200mm, 8"		230mm, 9"		250mm, 9 ⁷ / ₈ "	
1mm	250-245-181	1mm	250-245-201	1mm	250-245-231	1mm	250-245-251
1.5mm	250-245-180	1.5mm	250-245-200	2mm	250-245-232	2mm	250-245-252
2mm	250-245-182	2mm	250-245-202	3mm	250-245-233	3mm	250-245-253
3mm	250-245-183	3mm	250-245-203	4mm	250-245-234	4mm	250-245-254
4mm	250-245-184	4mm	250-245-204	5mm	250-245-235	5mm	250-245-255
5mm	250-245-185	5mm	250-245-205				

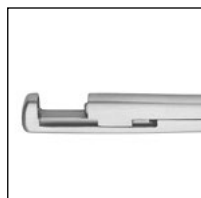
All Kerrison instruments are available with CERACUT® coating. Code number + CC (e.g. 250-400-181CC)

KERRISON

Kerrison Swivel Punch
2-piece detachable punch



Regular footplate
40° upwards cutting



Regular footplate
90° upwards cutting



Regular footplate
40° downwards cutting

180mm, 7"

1mm	250-600-181
2mm	250-600-182
3mm	250-600-183
4mm	250-600-184
5mm	250-600-185
6mm	250-600-186

200mm, 8"

1mm	250-600-201
2mm	250-600-202
3mm	250-600-203
4mm	250-600-204
5mm	250-600-205
6mm	250-600-206

230mm, 9"

1mm	250-600-231
2mm	250-600-232
3mm	250-600-233
4mm	250-600-234
5mm	250-600-235
6mm	250-600-236

180mm, 7"

1mm	250-640-181
2mm	250-640-182
3mm	250-640-183
4mm	250-640-184
5mm	250-640-185
6mm	250-640-186

200mm, 8"

1mm	250-640-201
2mm	250-640-202
3mm	250-640-203
4mm	250-640-204
5mm	250-640-205
6mm	250-640-206

230mm, 9"

1mm	250-640-231
2mm	250-640-232
3mm	250-640-233
4mm	250-640-234
5mm	250-640-235
6mm	250-640-236

180mm, 7"

1mm	250-630-181
2mm	250-630-182
3mm	250-630-183
4mm	250-630-184
5mm	250-630-185
6mm	250-630-186

200mm, 8"

1mm	250-630-201
2mm	250-630-202
3mm	250-630-203
4mm	250-630-204
5mm	250-630-205
6mm	250-630-206

230mm, 9"

1mm	250-630-231
2mm	250-630-232
3mm	250-630-233
4mm	250-630-234
5mm	250-630-235
6mm	250-630-236

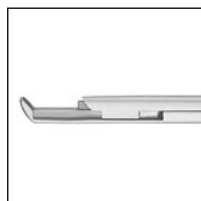
All instruments are available with CERACUT® coating. Code number + CC (e.g. 250-600-181CC)

KERRISON

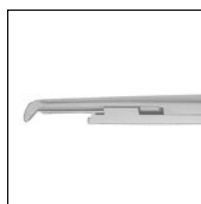
Kerrison Swivel Punch
2-piece detachable punch



Regular footplate
90° downwards cutting



Thin footplate
40° upwards cutting



Thin footplate
40° downwards cutting



Foramenotomy
40° upwards cutting

180mm, 7"	
1mm	250-660-181
2mm	250-660-182
3mm	250-660-183
4mm	250-660-184
5mm	250-660-185
6mm	250-660-186

200mm, 8"	
1mm	250-660-201
2mm	250-660-202
3mm	250-660-203
4mm	250-660-204
5mm	250-660-205
6mm	250-660-206

230mm, 9"	
1mm	250-660-231
2mm	250-660-232
3mm	250-660-233
4mm	250-660-234
5mm	250-660-235
6mm	250-660-236

180mm, 7"	
1mm	250-610-181
2mm	250-610-182
3mm	250-610-183
4mm	250-610-184
5mm	250-610-185
6mm	250-610-186

200mm, 8"	
1mm	250-610-201
2mm	250-610-202
3mm	250-610-203
4mm	250-610-204
5mm	250-610-205
6mm	250-610-206

230mm, 9"	
1mm	250-610-231
2mm	250-610-232
3mm	250-610-233
4mm	250-610-234
5mm	250-610-235
6mm	250-610-236

180mm, 7"	
1mm	250-620-181
2mm	250-620-182
3mm	250-620-183
4mm	250-620-184
5mm	250-620-185
6mm	250-620-186

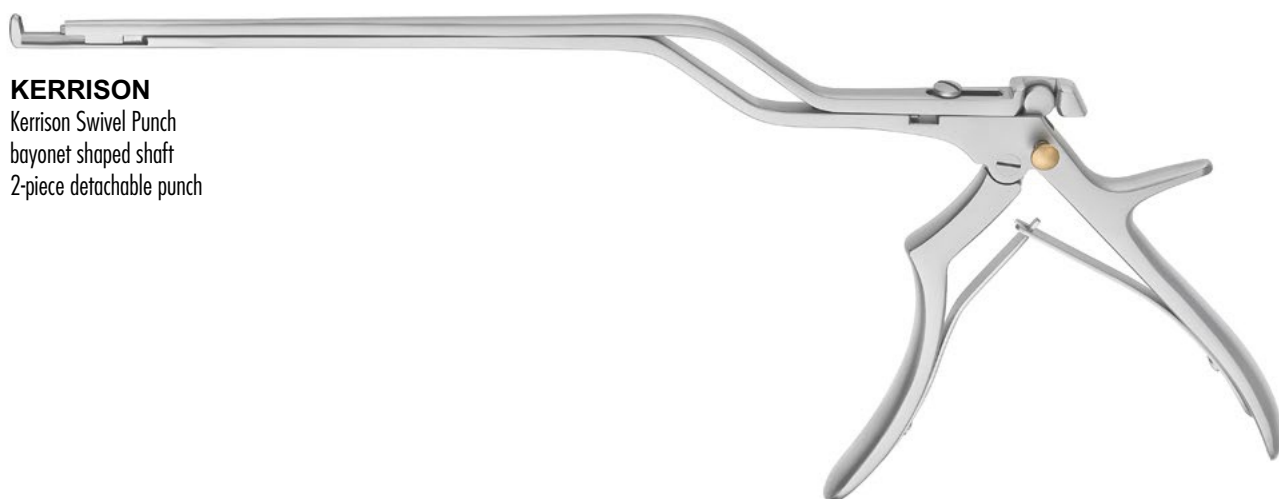
200mm, 8"	
1mm	250-620-201
2mm	250-620-202
3mm	250-620-203
4mm	250-620-204
5mm	250-620-205
6mm	250-620-206

230mm, 9"	
1mm	250-620-231
2mm	250-620-232
3mm	250-620-233
4mm	250-620-234
5mm	250-620-235
6mm	250-620-236

180mm, 7"	
1mm	250-680-181
2mm	250-680-182
3mm	250-680-183
4mm	250-680-184
5mm	250-680-185
6mm	250-680-186

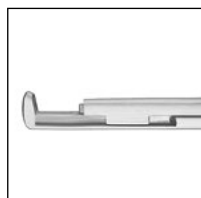
200mm, 8"	
1mm	250-680-201
2mm	250-680-202
3mm	250-680-203
4mm	250-680-204
5mm	250-680-205
6mm	250-680-206

All instruments are available with CERACUT® coating. Code number + CC (e.g. 250-600-181CC)



KERRISON

Kerrison Swivel Punch
bayonet shaped shaft
2-piece detachable punch



90° upwards cutting



90° upwards cutting
left curved jaw



90° upwards cutting
right curved jaw

180mm, 7"

1mm	250-650-111
2mm	250-650-112
3mm	250-650-113
4mm	250-650-114
5mm	250-650-115
6mm	250-650-116

200mm, 8"

1mm	250-650-151
2mm	250-650-152
3mm	250-650-153
4mm	250-650-154
5mm	250-650-155
6mm	250-650-156

230mm, 9"

1mm	250-650-181
2mm	250-650-182
3mm	250-650-183
4mm	250-650-184
5mm	250-650-185
6mm	250-650-186

180mm, 7"

1mm	250-651-111
2mm	250-651-112
3mm	250-651-113
4mm	250-651-114
5mm	250-651-115
6mm	250-651-116

200mm, 8"

1mm	250-651-151
2mm	250-651-152
3mm	250-651-153
4mm	250-651-154
5mm	250-651-155
6mm	250-651-156

230mm, 9"

1mm	250-651-181
2mm	250-651-182
3mm	250-651-183
4mm	250-651-184
5mm	250-651-185
6mm	250-651-186

180mm, 7"

1mm	250-652-111
2mm	250-652-112
3mm	250-652-113
4mm	250-652-114
5mm	250-652-115
6mm	250-652-116

200mm, 8"

1mm	250-652-151
2mm	250-652-152
3mm	250-652-153
4mm	250-652-154
5mm	250-652-155
6mm	250-652-156

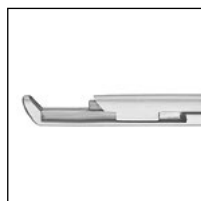
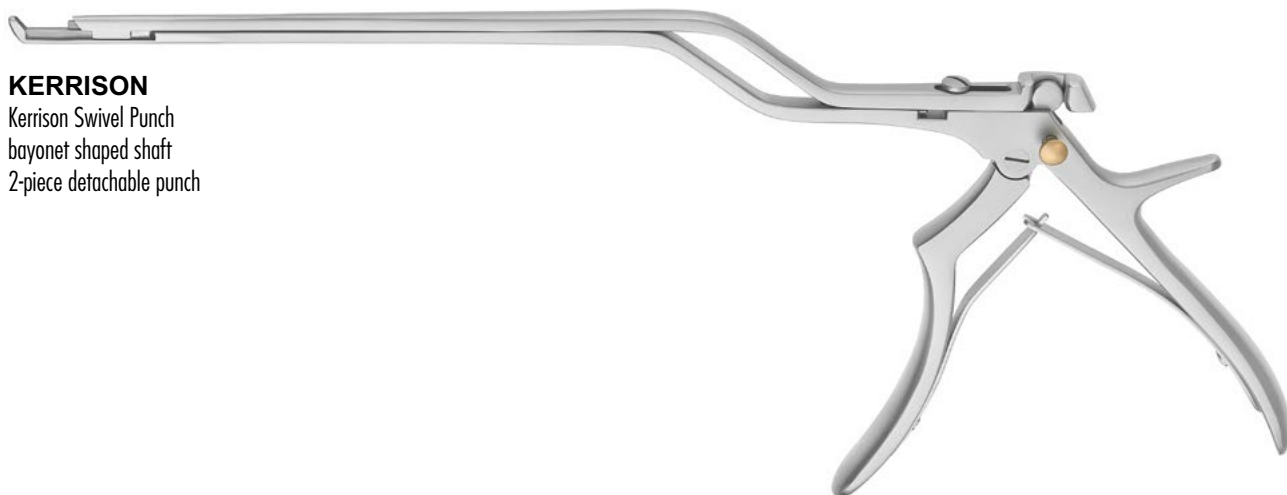
230mm, 9"

1mm	250-652-181
2mm	250-652-182
3mm	250-652-183
4mm	250-652-184
5mm	250-652-185
6mm	250-652-186

All instruments are available with CERACUT® coating. Code number + CC (e.g. 250-600-181CC)

KERRISON

Kerrison Swivel Punch
bayonet shaped shaft
2-piece detachable punch



40° upwards cutting



40° upwards cutting
left curved jaw



40° upwards cutting
right curved jaw

180mm, 7"

1mm	250-641-111
2mm	250-641-112
3mm	250-641-113
4mm	250-641-114
5mm	250-641-115
6mm	250-641-116

200mm, 8"

1mm	250-641-151
2mm	250-641-152
3mm	250-641-153
4mm	250-641-154
5mm	250-641-155
6mm	250-641-156

230mm, 9"

1mm	250-641-181
2mm	250-641-182
3mm	250-641-183
4mm	250-641-184
5mm	250-641-185
6mm	250-641-186

180mm, 7"

1mm	250-643-111
2mm	250-643-112
3mm	250-643-113
4mm	250-643-114
5mm	250-643-115
6mm	250-643-116

200mm, 8"

1mm	250-643-151
2mm	250-643-152
3mm	250-643-153
4mm	250-643-154
5mm	250-643-155
6mm	250-643-156

230mm, 9"

1mm	250-643-181
2mm	250-643-182
3mm	250-643-183
4mm	250-643-184
5mm	250-643-185
6mm	250-643-186

180mm, 7"

1mm	250-642-111
2mm	250-642-112
3mm	250-642-113
4mm	250-642-114
5mm	250-642-115
6mm	250-642-116

200mm, 8"

1mm	250-642-151
2mm	250-642-152
3mm	250-642-153
4mm	250-642-154
5mm	250-642-155
6mm	250-642-156

230mm, 9"

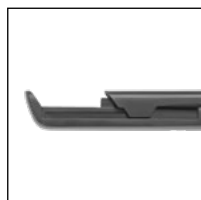
1mm	250-642-181
2mm	250-642-182
3mm	250-642-183
4mm	250-642-184
5mm	250-642-185
6mm	250-642-186

All instruments are available with CERACUT® coating. Code number + CC (e.g. 250-600-181CC)



KERRISON

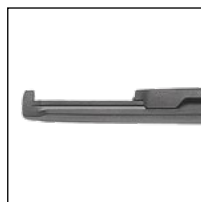
Kerrison Swivel Punch
 bayonet shaped shaft
 black finish, handle with silicone coating



40° upwards cutting

140mm, 5 1/2" working length

1mm	250-000-001
2mm	250-000-002
3mm	250-000-003
4mm	250-000-004
5mm	250-000-005



90° upwards cutting

140mm, 5 1/2" working length

1mm	250-000-006
2mm	250-000-007
3mm	250-000-008
4mm	250-000-009
5mm	250-000-010

Disc Rongeurs



straight

MINI-CUSHING

1.5x10mm bite

180mm, 7"	250-100-181
200mm, 8"	250-100-201



upwards curved

1.5x10mm bite

180mm, 7"	250-110-181
200mm, 8"	250-110-201



downwards curved

1.5x10mm bite

180mm, 7"	250-120-181
200mm, 8"	250-120-201

CUSHING

2x10mm bite

130mm, 5 ¹ / ₈ "	250-100-132
150mm, 6"	250-100-152
180mm, 7"	250-100-182
200mm, 8"	250-100-202
230mm, 9"	250-100-232

2x10mm bite

130mm, 5 ¹ / ₈ "	250-110-132
150mm, 6"	250-110-152
180mm, 7"	250-110-182
200mm, 8"	250-110-202
230mm, 9"	250-110-232

2x10mm bite

130mm, 5 ¹ / ₈ "	250-120-132
150mm, 6"	250-120-152
180mm, 7"	250-120-182
200mm, 8"	250-120-202
230mm, 9"	250-120-232

Laminectomy Rongeurs



LOVE GRUENWALD

straight, 3x10mm bite

130mm, 5 ¹ / ₈ "	250-100-133
150mm, 6"	250-100-153
180mm, 7"	250-100-183
200mm, 8"	250-100-203
230mm, 9"	250-100-233

upwards curved, 3x10mm bite

130mm, 5 ¹ / ₈ "	250-110-133
150mm, 6"	250-110-153
180mm, 7"	250-110-183
200mm, 8"	250-110-203
230mm, 9"	250-110-233

downwards curved, 3x10mm bite

130mm, 5 ¹ / ₈ "	250-120-133
150mm, 6"	250-120-153
180mm, 7"	250-120-183
200mm, 8"	250-120-203
230mm, 9"	250-120-233

SPURLING

straight, 4x10mm bite

130mm, 5 ¹ / ₈ "	250-100-134
150mm, 6"	250-100-154
180mm, 7"	250-100-184
200mm, 8"	250-100-204
230mm, 9"	250-100-234

upwards curved, 5x10mm bite

130mm, 5 ¹ / ₈ "	250-110-134
150mm, 6"	250-110-154
180mm, 7"	250-110-184
200mm, 8"	250-110-204
230mm, 9"	250-110-234

downwards curved, 5x10mm bite

130mm, 5 ¹ / ₈ "	250-120-134
150mm, 6"	250-120-154
180mm, 7"	250-120-184
200mm, 8"	250-120-204
230mm, 9"	250-120-234

CASPAR

straight, 5x10mm bite

130mm, 5 ¹ / ₈ "	250-100-135
150mm, 6"	250-100-155
180mm, 7"	250-100-185
200mm, 8"	250-100-205
230mm, 9"	250-100-235

upwards curved, 5x10mm bite

130mm, 5 ¹ / ₈ "	250-110-135
150mm, 6"	250-110-155
180mm, 7"	250-110-185
200mm, 8"	250-110-205
230mm, 9"	250-110-235

downwards curved, 5x10mm bite

130mm, 5 ¹ / ₈ "	250-120-135
150mm, 6"	250-120-155
180mm, 7"	250-120-185
200mm, 8"	250-120-205
230mm, 9"	250-120-235



straight



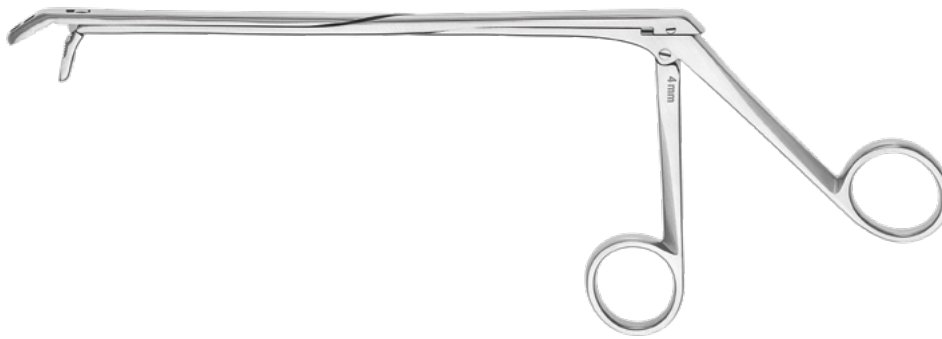
upwards curved



downwards curved

CASPAR

Toothed Disc Rongeurs



straight



upwards curved



downwards curved

2x12mm bite

140mm, 5 ¹ / ₂ "	250-130-142
160mm, 6 ¹ / ₄ "	250-130-162
180mm, 7"	250-130-182

2x12mm bite

140mm, 5 ¹ / ₂ "	250-140-142
160mm, 6 ¹ / ₄ "	250-140-162
180mm, 7"	250-140-182

2x12mm bite

140mm, 5 ¹ / ₂ "	250-150-142
160mm, 6 ¹ / ₄ "	250-150-162
180mm, 7"	250-150-182

3x12mm bite

140mm, 5 ¹ / ₂ "	250-130-143
160mm, 6 ¹ / ₄ "	250-130-163
180mm, 7"	250-130-183

3x12mm bite

140mm, 5 ¹ / ₂ "	250-140-143
160mm, 6 ¹ / ₄ "	250-140-163
180mm, 7"	250-140-183

3x12mm bite

140mm, 5 ¹ / ₂ "	250-150-143
160mm, 6 ¹ / ₄ "	250-150-163
180mm, 7"	250-150-183

straight, 4x14mm bite

140mm, 5 ¹ / ₂ "	250-130-144
160mm, 6 ¹ / ₄ "	250-130-164
180mm, 7"	250-130-184

upwards curved, 4x14mm bite

140mm, 5 ¹ / ₂ "	250-140-144
160mm, 6 ¹ / ₄ "	250-140-164
180mm, 7"	250-140-184

downwards curved, 4x14mm bite

140mm, 5 ¹ / ₂ "	250-150-144
160mm, 6 ¹ / ₄ "	250-150-164
180mm, 7"	250-150-184

straight, 5x14mm bite

140mm, 5 ¹ / ₂ "	250-130-145
160mm, 6 ¹ / ₄ "	250-130-165
180mm, 7"	250-130-185

upwards curved, 5x14mm bite

140mm, 5 ¹ / ₂ "	250-140-145
160mm, 6 ¹ / ₄ "	250-140-165
180mm, 7"	250-140-185

downwards curved, 5x14mm bite

140mm, 5 ¹ / ₂ "	250-150-145
160mm, 6 ¹ / ₄ "	250-150-165
180mm, 7"	250-150-185

straight, 6x16mm bite

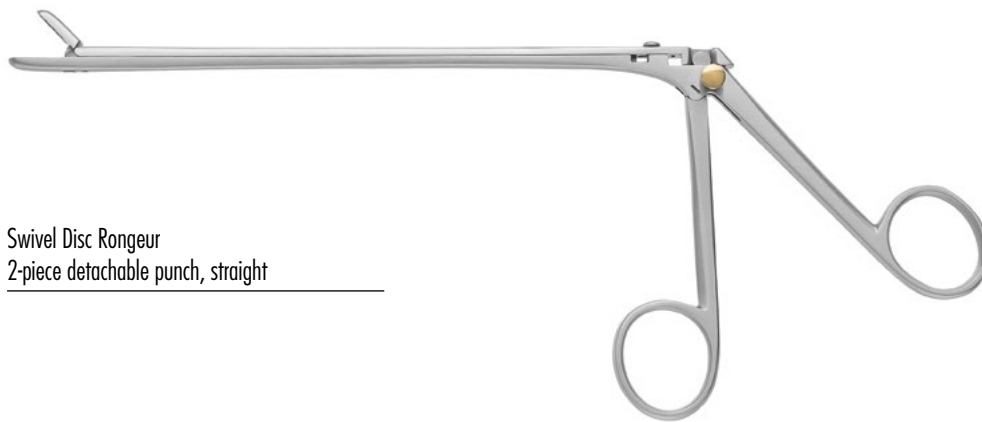
140mm, 5 ¹ / ₂ "	250-130-146
160mm, 6 ¹ / ₄ "	250-130-166
180mm, 7"	250-130-186

upwards curved, 6x16mm bite

140mm, 5 ¹ / ₂ "	250-140-146
160mm, 6 ¹ / ₄ "	250-140-166
180mm, 7"	250-140-186

downwards curved, 6x16mm bite

140mm, 5 ¹ / ₂ "	250-150-146
160mm, 6 ¹ / ₄ "	250-150-166
180mm, 7"	250-150-186



Swivel Disc Rongeur
2-piece detachable punch, straight

CUSHING

2x10mm

length	straight jaw	30° upwards jaw	30° downwards jaw
150mm, 6"	250-700-152	250-710-152	250-720-152
180mm, 7"	250-700-182	250-710-182	250-720-182
200mm, 8"	250-700-202	250-710-202	250-720-202



LOVE GRUENWALD

3x10mm

length	straight jaw	30° upwards jaw	30° downwards jaw
150mm, 6"	250-700-153	250-710-153	250-720-153
180mm, 7"	250-700-183	250-710-183	250-720-183
200mm, 8"	250-700-203	250-710-203	250-720-202

SPURLING

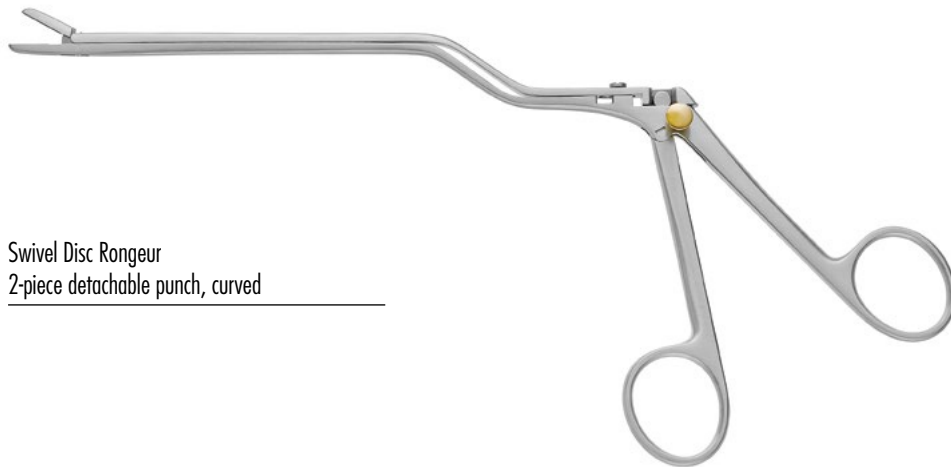
4x10mm

length	straight jaw	30° upwards jaw	30° downwards jaw
150mm, 6"	250-700-154	250-710-154	250-720-154
180mm, 7"	250-700-184	250-710-184	250-720-184
200mm, 8"	250-700-204	250-710-204	250-720-204

CASPAR

5x10mm

length	straight jaw	30° upwards jaw	30° downwards jaw
150mm, 6"	250-700-155	250-710-155	250-720-155
180mm, 7"	250-700-185	250-710-185	250-720-185
200mm, 8"	250-700-205	250-710-205	250-720-205



Swivel Disc Rongeur
 2-piece detachable punch, curved

CUSHING

2x10mm

length	bayonet right, straight jaw	bayonet left, straight jaw	bayonet up, straight jaw
110mm, 4 ¹ / ₃ "	250-750-112	250-760-112	250-770-112
150mm, 6"	250-750-152	250-760-152	250-770-152
180mm, 7"	250-750-182	250-760-182	250-770-182

LOVE GRUENWALD

3x10mm

length	bayonet right, straight jaw	bayonet left, straight jaw	bayonet up, straight jaw
110mm, 4 ¹ / ₃ "	250-750-113	250-760-113	250-770-113
150mm, 6"	250-750-153	250-760-153	250-770-153
180mm, 7"	250-750-183	250-760-183	250-770-182

SPURLING

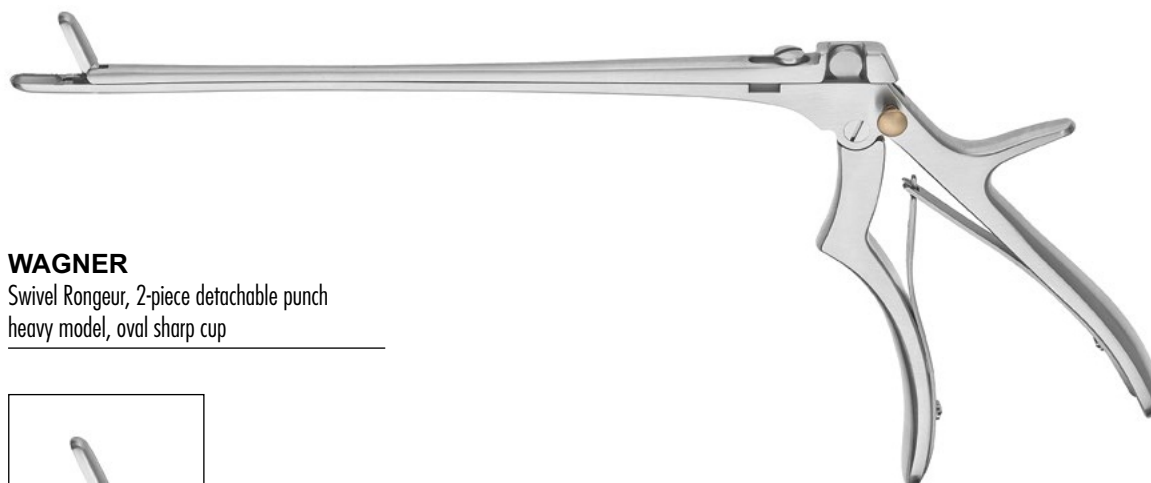
4x10mm

length	bayonet right, straight jaw	bayonet left, straight jaw	bayonet up, straight jaw
110mm, 4 ¹ / ₃ "	250-750-114	250-760-114	250-770-114
150mm, 6"	250-750-154	250-760-154	250-770-154
180mm, 7"	250-750-184	250-760-184	250-770-184

CASPAR

5x10mm

length	bayonet right, straight jaw	bayonet left, straight jaw	bayonet up, straight jaw
110mm, 4 ¹ / ₃ "	250-750-115	250-760-115	250-770-115
150mm, 6"	250-750-155	250-760-155	250-770-155
180mm, 7"	250-750-185	250-760-185	250-770-185



WAGNER

Swivel Rongeur, 2-piece detachable punch
heavy model, oval sharp cup



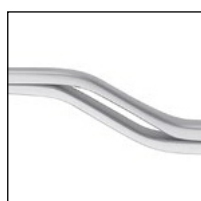
straight
bite

	200mm, 8"	300mm, 11 ⁷ / ₈ "
3mm	250-670-203	250-670-303
4mm	250-670-204	250-670-304
5mm	250-670-205	250-670-305



50° upwards
bite

	200mm, 8"	300mm, 11 ⁷ / ₈ "
4mm	250-671-204	250-671-304

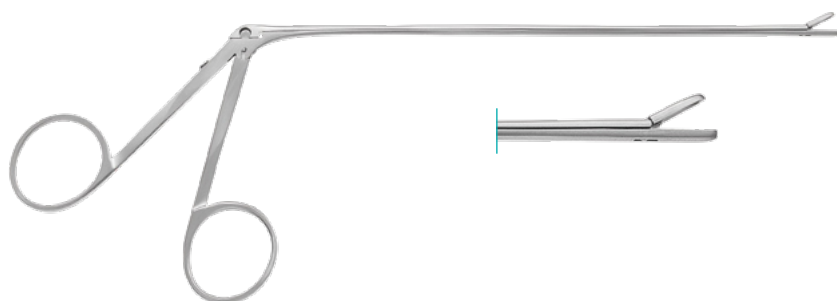


bayonet shape, straight jaw
bite

	110mm, 4 ¹ / ₃ "	150mm, 6"	180mm, 7"
3mm	250-672-113	250-672-153	250-672-183
4mm	250-672-114	250-672-154	250-672-184
5mm	250-672-115	250-672-155	250-672-185

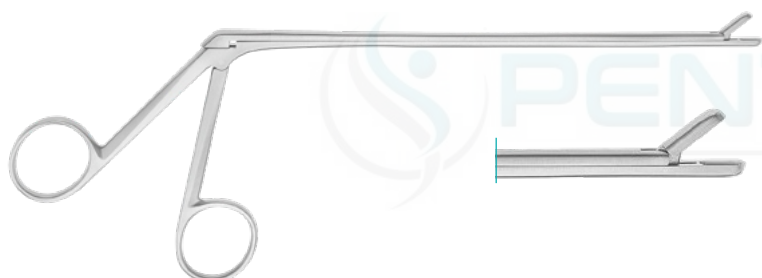
bayonet shape, 50° upwards
bite

	110mm, 4 ¹ / ₃ "	150mm, 6"	180mm, 7"
3mm	250-673-113	250-673-153 (30°)	250-673-183
4mm	250-673-114	250-673-154	250-673-184
5mm	250-673-115	250-673-155	250-673-185

**DECKER**

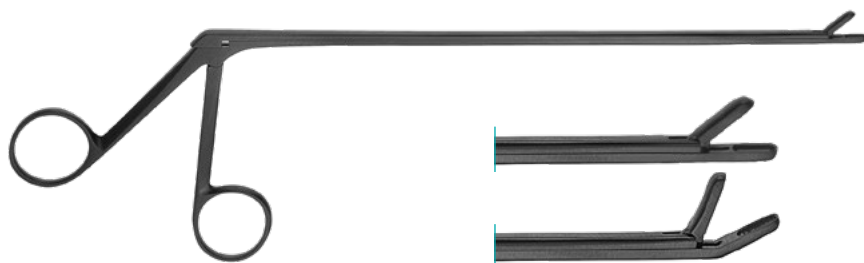
Rongeur, fine model, 2x6mm jaw
150mm, 6"

straight	250-066-817
left curved	250-066-824
right curved	250-066-827

**DECKER**

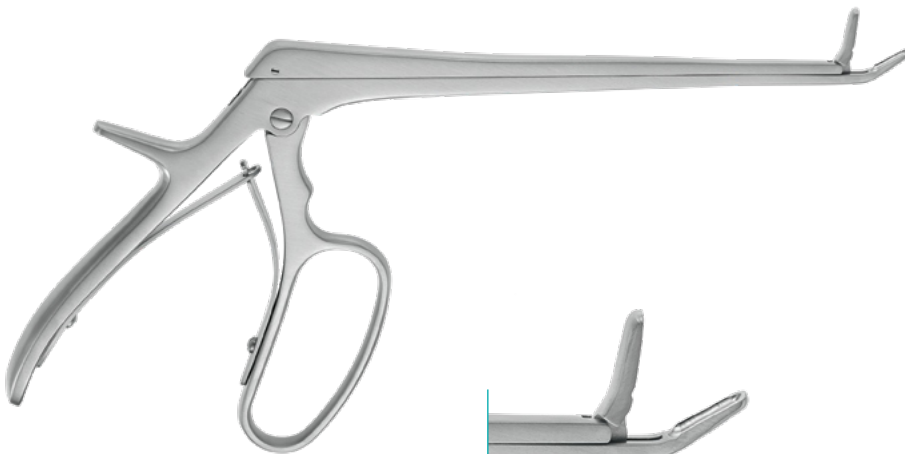
Rongeur, 2x6mm jaw, straight
150mm, 6"

250-067-817



Micro Rongeur, CERA-CUT®
2mm jaw, 170mm, 6²/₃"

straight	250-300-170CC
upcurved	250-301-170CC


FERRIS SMITH

 Disc Rongeur, straight
 180mm, 7"

2mm	250-067-802
3mm	250-067-803
4mm	250-067-804
6mm	250-067-806

200mm, 8"

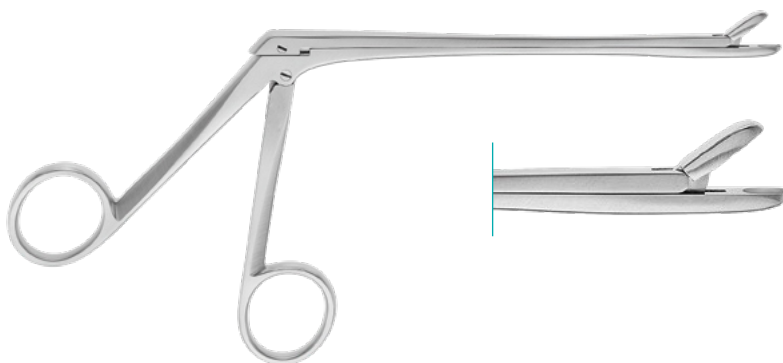
2mm	250-068-802
3mm	250-068-803
4mm	250-068-804
6mm	250-068-806

 upwards angled
 180mm, 7"

2mm	250-067-782
3mm	250-067-783
4mm	250-067-784
6mm	250-067-786

200mm, 8"

2mm	250-067-765
3mm	250-067-766
4mm	250-067-767
6mm	250-067-768


PEAPOD

 Rongeur, 140mm, 5 1/2"
 straight

2 x 6mm bite	250-115-140
2.5 x 7mm bite	250-118-140
3 x 10mm bite	250-116-140

upwards angled

2 x 6mm bite	250-114-140
2.5 x 7mm bite	250-119-140
3 x 10mm bite	250-117-140

**CLOWARD**Rongeur, straight jaw, serrated
180mm, 7"

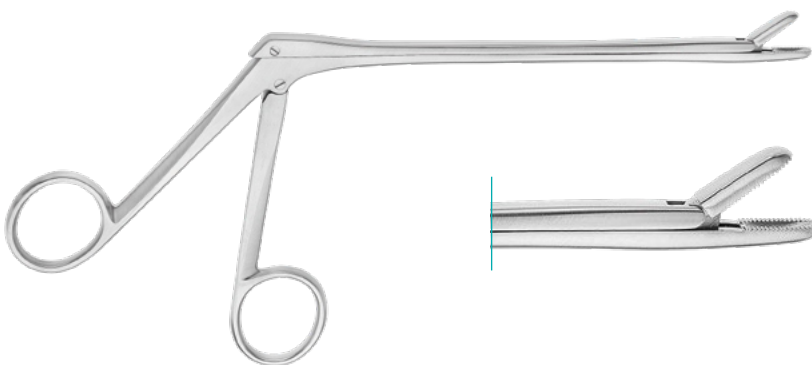
4mm	250-066-796
-----	-------------

6mm	250-066-797
-----	-------------

200mm, 8"	
-----------	--

4mm	250-066-786
-----	-------------

6mm	250-066-787
-----	-------------

**SCHLESINGER**Rongeur, straight jaw, fine serrated
150mm, 6"

2mm	259-195-002
-----	-------------

3mm	259-195-003
-----	-------------

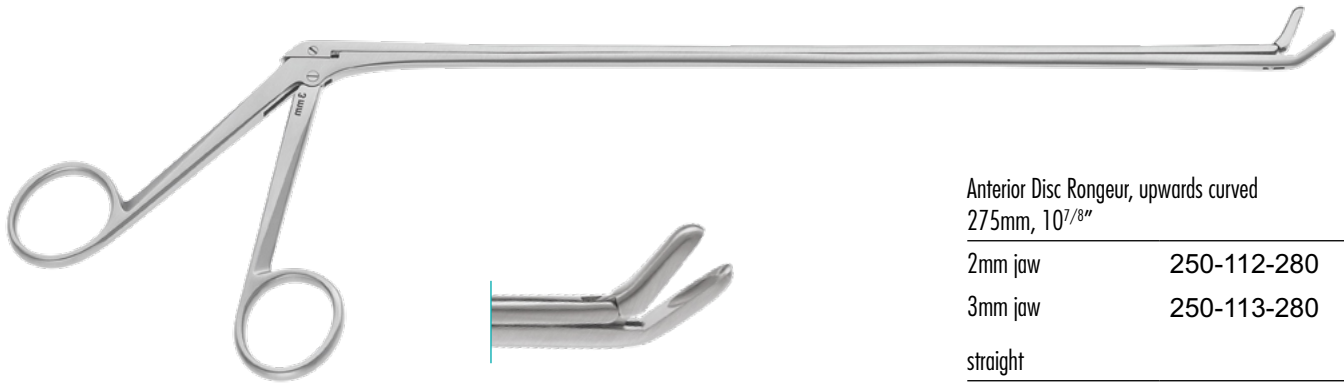
4mm	259-195-004
-----	-------------

180mm, 7"	
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2mm	259-196-002
-----	-------------

3mm	259-196-003
-----	-------------

4mm	259-196-004
-----	-------------



Anterior Disc Rongeur, upwards curved
275mm, 10⁷/₈"

2mm jaw	250-112-280
---------	-------------

3mm jaw	250-113-280
---------	-------------

straight

2mm jaw	250-102-280
---------	-------------

3mm jaw	250-103-280
---------	-------------

4mm jaw	250-104-280
---------	-------------

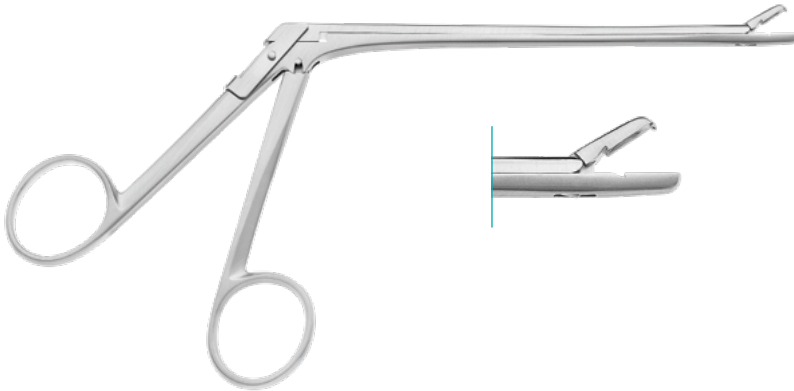
5mm jaw	250-105-280
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VILBISS

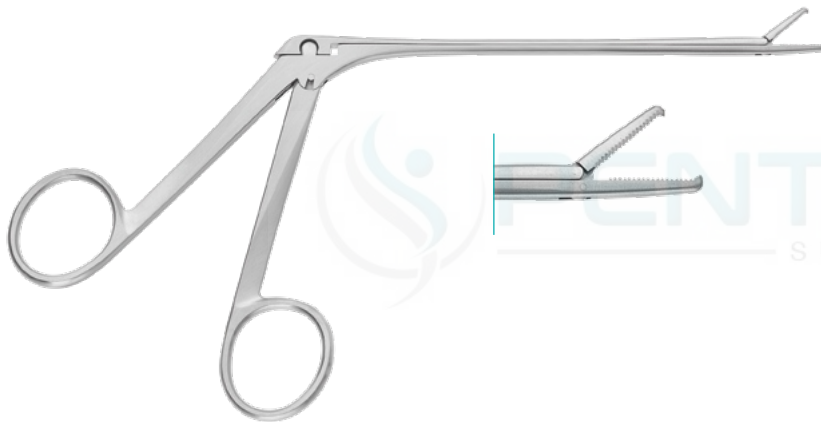
Cranial Rongeur Forceps
with replacement blade

210mm, 8 ¹ / ₄ "	250-066-798
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WILLIAMS

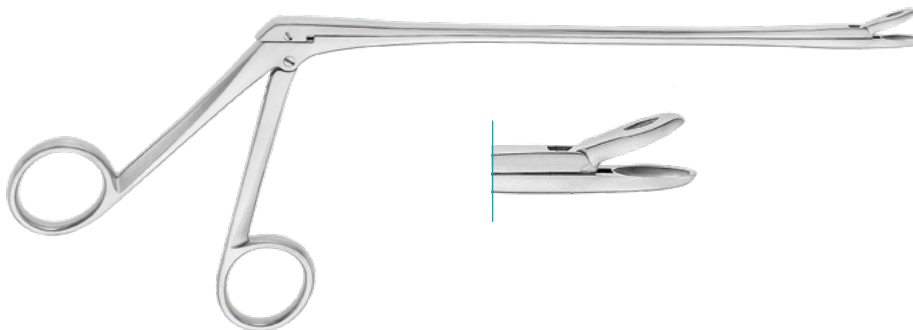
Dissectomy Rongeur, 2.3mm wide cup,
1.0mm single teeth

140mm, 5 ¹ / ₂ "	250-068-140
230mm, 9"	250-068-230


NOYES

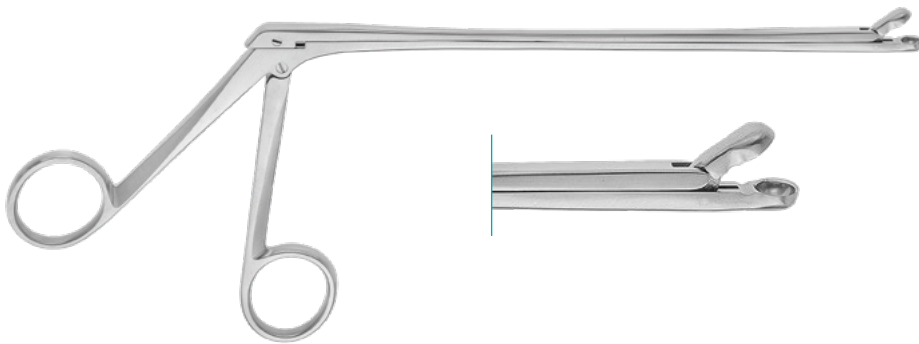
Alligator Forceps, 1x2 teeth with serrated jaw

140mm, 5 ¹ / ₂ "	250-526-140
--	-------------


WEIL BLAKESLEY

Rongeur, fenestrated jaw, fine serrated
180mm, 7", straight

3.0mm	252-030-180
3.5mm	252-035-180
4.0mm	252-040-180
upwards angled	
3.0mm	252-030-181
3.5mm	252-035-181
4.0mm	252-040-181



OLDBERG

Rongeur, Ø7mm

180mm, 7"

250-066-605



YASARGIL

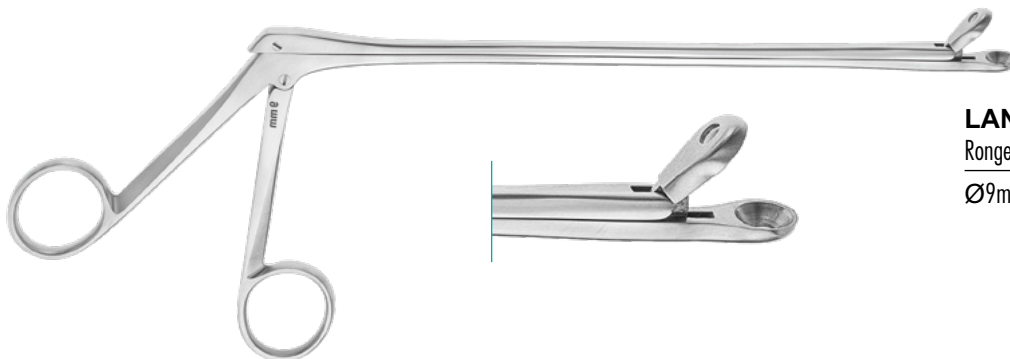
Rongeur, 190mm, 7 1/2"

Ø2.2mm

250-066-599

Ø3.5mm

250-066-600



LANDOLT

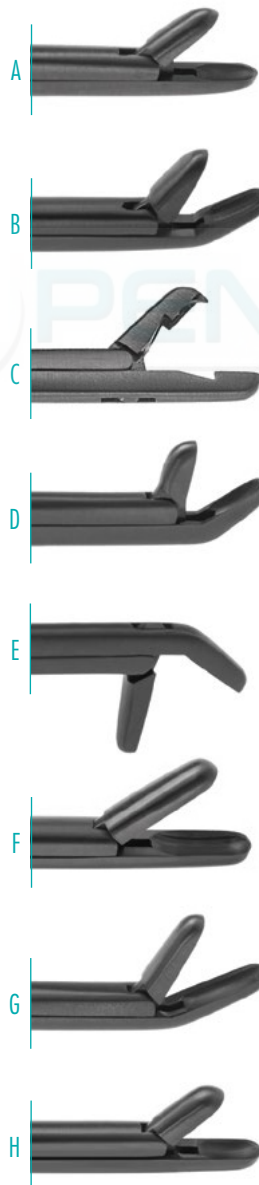
Rongeur, 200mm, 8"

Ø9mm

250-066-345



Micro Dissectomy Rongeur,
black coated, 180mm, 7"



A straight, 2x6mm	250-000-016
B 30° bent up, 2x6mm	250-000-017
C Grasper, 2mm	250-000-018
D 40° upwards curved, 2x6mm	250-000-019
E downwards curved, 2x6mm	250-000-020
F straight, 4mm	250-000-021
G upwards angled, 4mm	250-000-022
H short straight, Kerrison handle 4mm	250-000-023



Micro Scissors, straight

sharp/sharp, 70mm working length

 190mm, 7¹/₂" 250-800-190

90mm working length

 210mm, 8¹/₄" 250-800-210

120mm working length

 240mm, 9¹/₂" 250-800-240

135mm working length

255mm, 10" 250-800-255

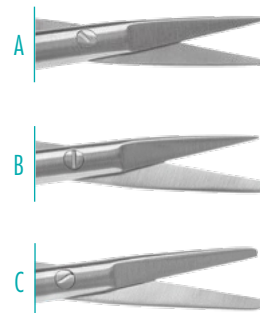
sharp/blunt, 70mm working length

 190mm, 7¹/₂" 250-802-190

90mm working length

 210mm, 8¹/₄" 250-802-210

120mm working length

 240mm, 9¹/₂" 250-802-240


blunt/blunt, 70mm working length

 190mm, 7¹/₂" 250-804-190

90mm working length

 210mm, 8¹/₄" 250-804-210

120mm working length

 240mm, 9¹/₂" 250-804-240

135mm working length

255mm, 10" 250-804-255



Micro Scissors, curved

sharp/sharp, 70mm working length

 190mm, 7¹/₂" 250-801-190

90mm working length

 210mm, 8¹/₄" 250-801-210

120mm working length

 240mm, 9¹/₂" 250-801-240

135mm working length

255mm, 10" 250-801-255

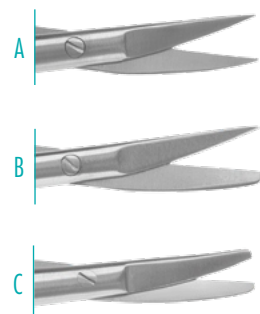
sharp/blunt, 70mm working length

 190mm, 7¹/₂" 250-803-190

90mm working length

 210mm, 8¹/₄" 250-803-210

120mm working length

 240mm, 9¹/₂" 250-803-240


blunt/blunt, 70mm working length

 190mm, 7¹/₂" 250-805-190

90mm working length

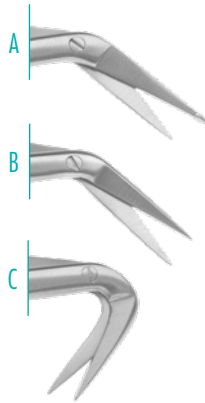
 210mm, 8¹/₄" 250-805-210

120mm working length

 240mm, 9¹/₂" 250-805-240

135mm working length

255mm, 10" 250-805-255



Micro Scissors, angled
90mm working length
knob/sharp, 45° angled

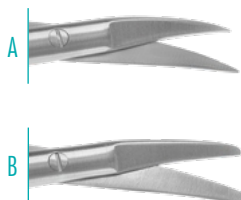
210mm, 8 ¹ / ₄ "	250-811-210
--	-------------

sharp/sharp, 45° angled

210mm, 8 ¹ / ₄ "	250-813-210
--	-------------

sharp/sharp, 125° angled

210mm, 8 ¹ / ₄ "	250-815-210
--	-------------



Micro Scissors, downward curved
90mm working length
sharp/sharp

210mm, 8 ¹ / ₄ "	250-807-210
--	-------------

blunt/blunt

210mm, 8 ¹ / ₄ "	250-809-210
--	-------------



Micro Forceps 0.5mm jaw

190mm, 7 ¹ / ₂ "	250-820-190
210mm, 8 ¹ / ₄ "	250-820-210
240mm, 9 ¹ / ₂ "	250-820-240

Neuro Forceps 0.9mm jaw

190mm, 7 ¹ / ₂ "	250-822-190
210mm, 8 ¹ / ₄ "	250-822-210
240mm, 9 ¹ / ₂ "	250-822-240

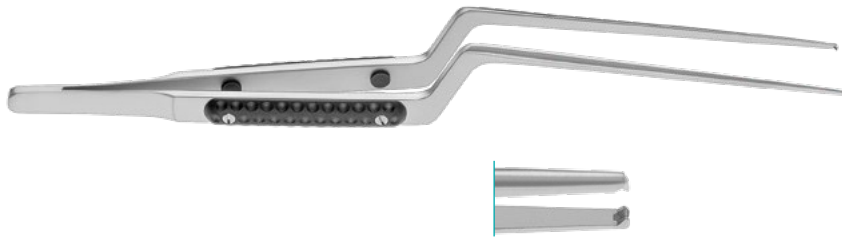


Micro Tumor Grasping Forceps 25mm

210mm, 8 ¹ / ₄ "	250-830-210
245mm, 9 ² / ₃ "	250-830-245

25mm

210mm, 8 ¹ / ₄ "	250-832-210
245mm, 9 ² / ₃ "	250-832-245



Micro Tissue Forceps
1x2 teeth

210mm, 8 ^{1/4} "	250-850-210
---------------------------	-------------



Micro Needle Holder,
curved, 0.5mm jaw,
70mm working length

200mm, 8"	250-841-200
-----------	-------------

90mm working length

220mm, 8 ^{2/3} "	250-841-220
---------------------------	-------------

120mm working length

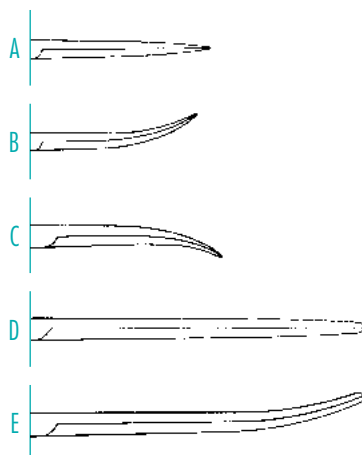
250mm, 9 ^{7/8} "	250-841-250
---------------------------	-------------



Container, double layer system

265 x 255 x 65mm	600-407-255
------------------	-------------

400 x 290 x 75mm	600-407-260
------------------	-------------



YASARGIL

Micro Scissors, straight

165mm, 6 ¹ / ₂ "	250-064-030
200mm, 8"	250-064-034

Curved

165mm, 6 ¹ / ₂ "	250-064-031
200mm, 8"	250-064-035

Curved downwards

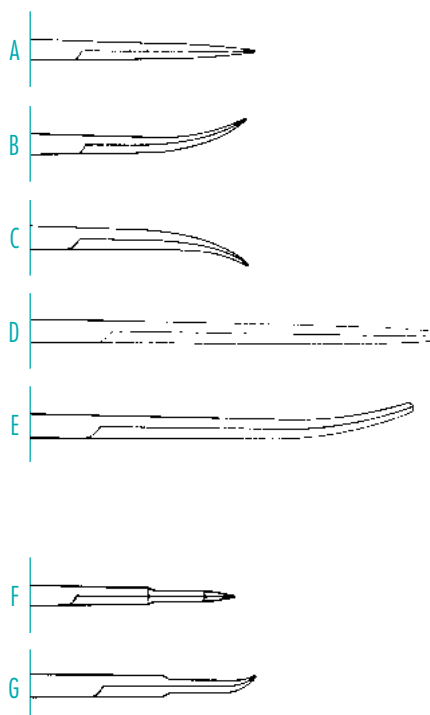
200mm, 8"	250-064-036
-----------	-------------

Straight, dissecting

200mm, 8"	250-064-032
-----------	-------------

Curved, dissecting

200mm, 8"	250-064-033
-----------	-------------



YASARGIL

Micro Scissors, straight

225mm, 8 ⁷ / ₈ "	250-064-038
toothed blades	250-064-060

Curved

225mm, 8 ⁷ / ₈ "	250-064-039
245mm, 9 ² / ₃ "	250-064-061

Curved downwards

225mm, 8 ⁷ / ₈ "	250-064-047
--	-------------

Dissecting Scissors, straight

225mm, 8 ⁷ / ₈ "	250-064-044
--	-------------

Dissecting Scissors, curved

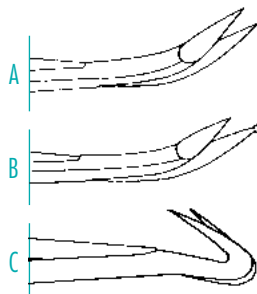
225mm, 8 ⁷ / ₈ "	250-064-043
--	-------------

VANNAS

 Micro Scissors, straight, 225mm, 8⁷/₈"

Straight	250-064-037
----------	-------------

Curved	250-064-040
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NAGEL

Micro Scissors, 45°

200mm, 8"	250-064-056
-----------	-------------

45°, with probe-pointed blade

200mm, 8"	250-064-057
-----------	-------------

125°

190mm, 7 ¹ / ₂ "	250-064-059
--	-------------



YASARGIL

Micro Needle Holder, straight

165mm, 6 ¹ / ₂ "	250-064-089
--	-------------

200mm, 8"	250-064-092
-----------	-------------

225mm, 8 ⁷ / ₈ "	250-064-096
--	-------------

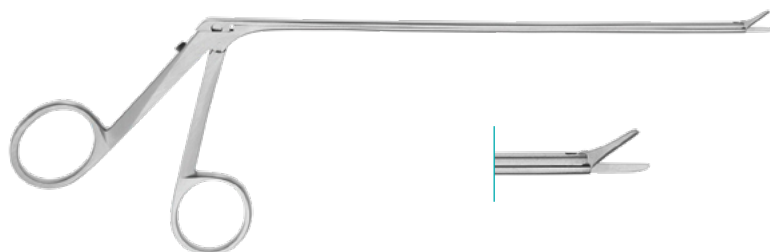
curved

165mm, 6 ¹ / ₂ "	250-064-089
--	-------------

200mm, 8"	250-064-093
-----------	-------------

225mm, 8 ⁷ / ₈ "	250-064-097
--	-------------

245mm, 9 ² / ₃ "	250-064-099
--	-------------



DECKER

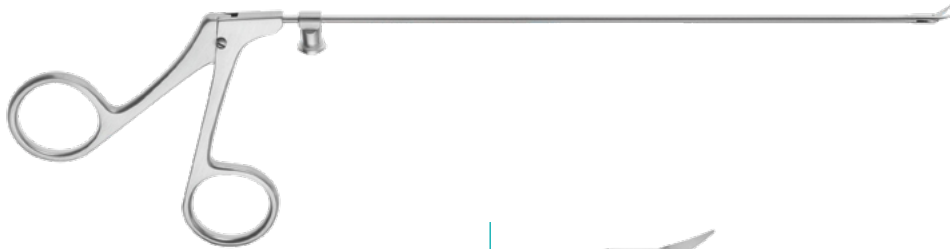
Micro Scissors, fine model, 5mm

150mm, 6"

straight	250-066-601
----------	-------------

left curved	250-066-602
-------------	-------------

right curved	250-066-603
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Micro Instruments with Luer-Lock
160mm, 6^{1/4}" working length



FAHLBUSCH
Micro Scissors

250-064-223



NICOLA
Micro Forceps, Ø 2.5mm

250-064-222



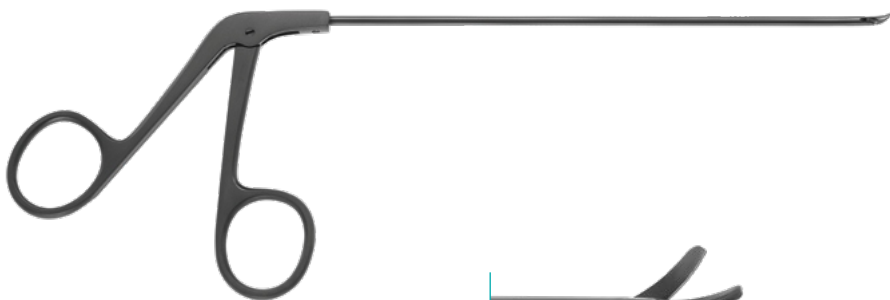
YASARGIL NICOLA
Micro Grasping Forceps, 1mm conical jaw

250-064-224



NICOLA
Micro Scissors, straight

250-064-226



Micro Spinal Scissors
150mm, 6" working length, black coated,
2mm, curved



blunt 250-000-033



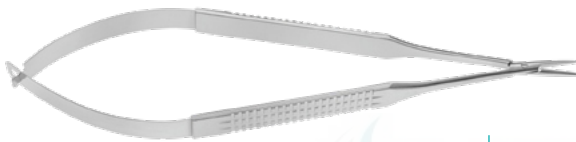
sharp 250-000-034



Titanium Micro Needle Holder, straight, with box catch, 1mm diamond dusted jaw, 8mm round handle

210mm, 8^{1/4}"

250-218-210



Micro Needle Holder, without catch, 160mm, 6^{1/4}" working length

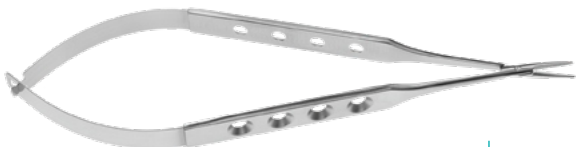
straight 250-069-076

curved 250-069-079

180mm, 7" working length

straight 250-069-080

curved 250-069-081



Micro Needle Holder, diamond dusted without catch, 160mm, 6^{1/4}" working length

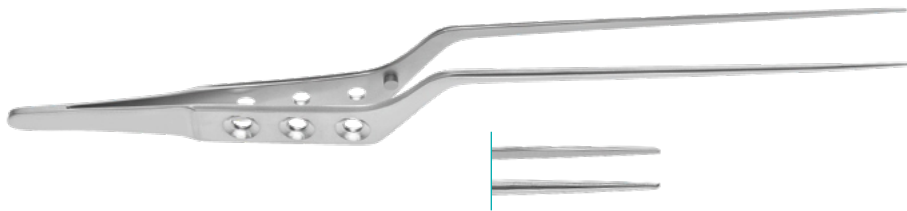
straight 250-269-076

curved 250-269-079

180mm, 7" working length

straight 250-269-080

curved 250-269-081



YASARGIL

Micro Forceps, 0.6mm tip

160mm, 6 ^{1/4} "	250-024-830
180mm, 7"	250-024-835
200mm, 8"	250-024-840
220mm, 8 ^{2/3} "	250-024-845
240mm, 9 ^{1/2} "	250-024-850

0.9mm tip

160mm, 6 ^{1/4} "	250-024-831
180mm, 7"	250-024-836
200mm, 8"	250-024-841
220mm, 8 ^{2/3} "	250-024-846
240mm, 9 ^{1/2} "	250-024-851

1x2 teeth

180mm, 7"	250-024-837
-----------	-------------



YASARGIL

Micro Grasping Forceps Ø 3mm

220mm, 8 ^{2/3} "	250-064-210
---------------------------	-------------

Ø 5mm

220mm, 8 ^{2/3} "	250-064-212
---------------------------	-------------

Ø 3mm, flat jaw, serrated

220mm, 8 ^{2/3} "	250-064-214
---------------------------	-------------

Ø 5mm, flat jaw, serrated

220mm, 8 ^{2/3} "	250-064-216
---------------------------	-------------

YASARGIL SAMII

Ø 3mm, spoon-shaped

240mm, 9 ^{1/2} "	250-064-200
---------------------------	-------------

Ø 5mm, spoon-shaped

240mm, 9 ^{1/2} "	250-064-202
---------------------------	-------------

Ø 7mm, spoon-shaped

240mm, 9 ^{1/2} "	250-064-204
---------------------------	-------------

HEIFETZ

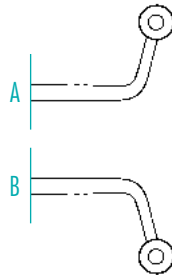
Ø 3mm, curette jaw, toothed

220mm, 8 ^{2/3} "	250-064-215
---------------------------	-------------

Ø 5mm, curette jaw, toothed

220mm, 8 ^{2/3} "	250-064-217
---------------------------	-------------





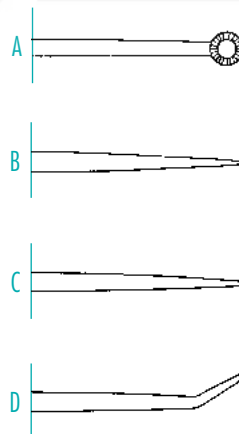
SAMII

Micro Grasping Forceps, 230mm, 9°
left angled

Ø 3mm	250-064-190
Ø 4mm	250-064-191
Ø 5mm	250-064-192

right angled

Ø 3mm	250-064-195
Ø 4mm	250-064-196
Ø 5mm	250-064-197



HUNT

Tumor Tissue Forceps, Ø 5mm
flat jaw, serrated, straight

200mm, 8"	250-024-766
-----------	-------------

fine tip

185mm, 7 ¹ / ₄ "	250-064-110
--	-------------

broad tip

185mm, 7 ¹ / ₄ "	250-064-111
--	-------------

broad tip, angled

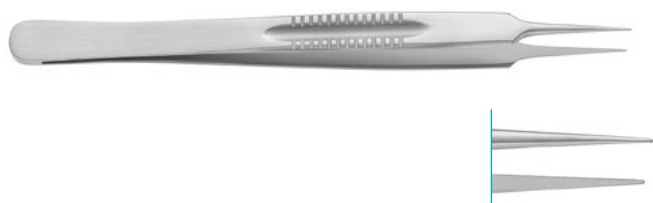
185mm, 7 ¹ / ₄ "	250-064-112
--	-------------



HUNT

Tumor Tissue Forceps, Ø 5mm
serrated jaw

200mm, 8"	250-024-765
-----------	-------------

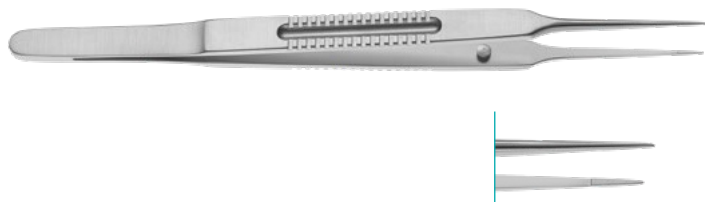

LAZAR

Micro Suture Tying Forceps

 155mm, 6^{1/8}"

0.5mm tip 250-024-260

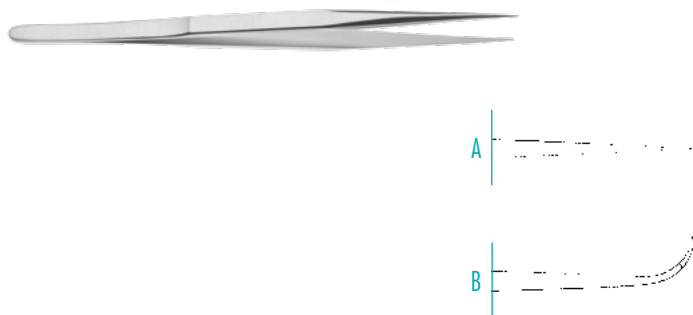
0.8mm tip 250-024-261



Micro Suture Tying Forceps

 185mm, 7^{1/4}"

0.5mm tip 250-024-264


WISE

Micro Suture Tying Forceps

straight, 0.3mm tip

 120mm, 4^{3/4}" 250-024-338

 135mm, 5^{1/3}" 250-024-336

curved, 0.3mm tip

 135mm, 5^{1/3}" 250-024-337

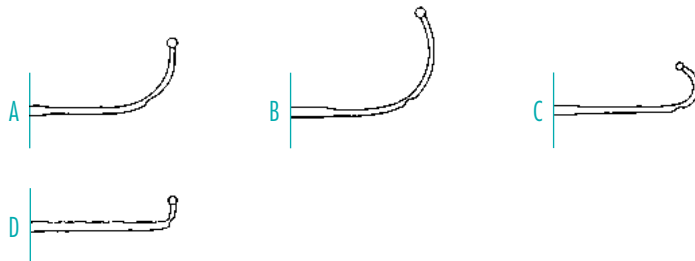
AUSTIN

Micro Suture Tying Forceps,

0.8mm tip

 140mm, 5^{1/2}" 250-024-340

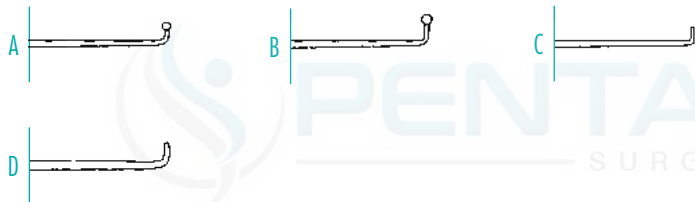
180mm, 7" 250-024-342



YASARGIL

Ligature Guide, 185mm, 7¹/₄"

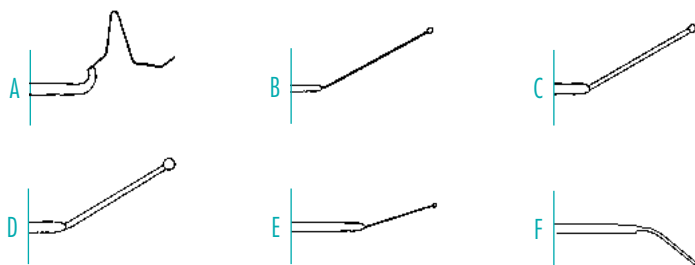
A	250-064-270
B	250-064-271
C	250-064-272
D	250-064-273



KRAYENBÜHL

Nerve / Vessel Hook, 185mm, 7¹/₄"

A	250-064-396
B	250-064-397
C	250-064-398
D	250-064-399



BIEMER

Vessel Spreader,

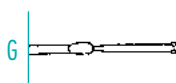
160mm, 6¹/₄" 250-064-310

Vessel Dilator, 125mm, 5"

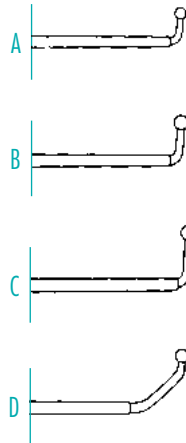
Ø 0.5mm	250-064-306
Ø 1.0mm	250-064-307
Ø 1.5mm	250-064-308

JACOBSON

Vessel Probe, 185mm, 7¹/₄"



E	250-064-311
F	250-064-313
G	250-064-312



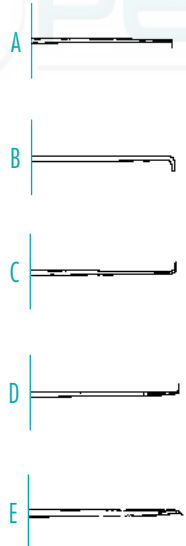
CASPAR

Exploration / Coagulation Hook,
245mm, 9²/₃", insulated

A	250-020-088
B	250-020-089
C	250-020-090
D	250-020-091

non-insulated

A	250-010-088
B	250-010-089
C	250-010-090
D	250-010-091



Micro Hook, 90°, 230mm, 9"

sharp	250-064-330
blunt	250-064-331

FISC

90°, sharp, 185mm, 7¹/₄"

Curved	250-064-375
Angled	250-064-376

JACOBSON

Micro Vessel Knife, 185mm, 7¹/₄"

E	250-064-350
---	-------------



Tissue Pick, Ø 1.8mm

185mm, 7 ¹ / ₄ "	250-064-392
--	-------------



FRAZIER

Dura Hook, sharp

130mm, 5^{1/8}"

170-013-130



O'CONNOR

Nerve Hook, sharp

120mm, 4^{3/4}"

170-040-160



DANDY

Nerve Hook, 3mm, 200mm, 8"

straight 250-746-000

right curved 250-746-001

left curved 250-746-002



COTTLE

Nerve Hook, 168mm, 6²/₃"

180° retrograde curved	230-286-160
------------------------	-------------

120° retrograde curved	230-285-160
------------------------	-------------



SACHS

Dura Hook

185mm, 7 ¹ / ₄ "	250-403-185
--	-------------



SMITHWICK

Nerve Hook

170mm, 6 ² / ₃ "	250-507-170
--	-------------

**GRAHAM**

Dura Hook

165mm, 6^{1/2}"

250-405-160

**CUSHING**Nerve Hook, 190mm, 7^{1/2}"

small

170-060-001

large

170-060-002

**ADSON**

Dura Hook, 200mm, 8"

blunt

250-407-200

sharp

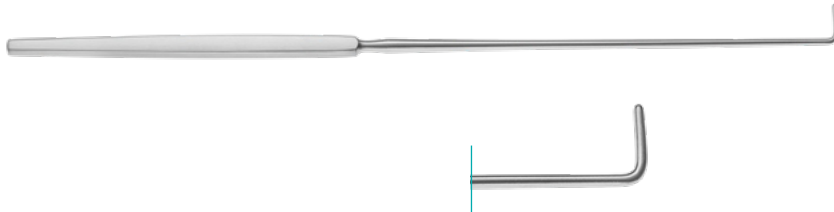
250-409-200

**WEARY**

Nerve Hook, fine, blunt, black coated

200mm, 8"

250-408-200

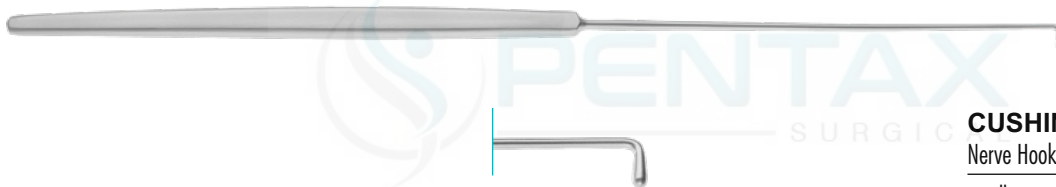


HOEN

Hook, 90°

220mm, 8²/₃"

250-747-220



CUSHING

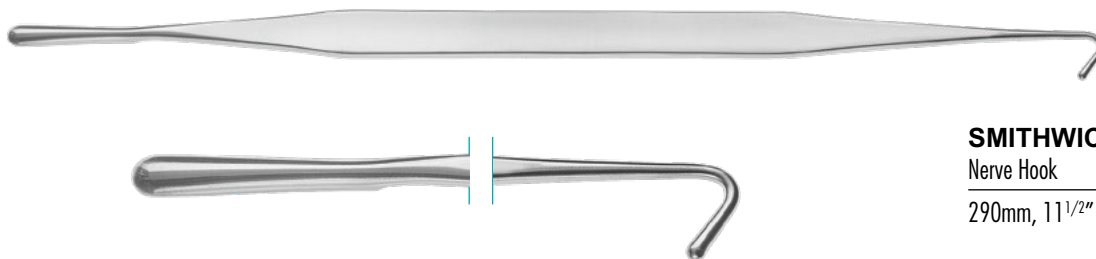
Nerve Hook, 280mm, 11"

small

250-742-280

large

250-743-280

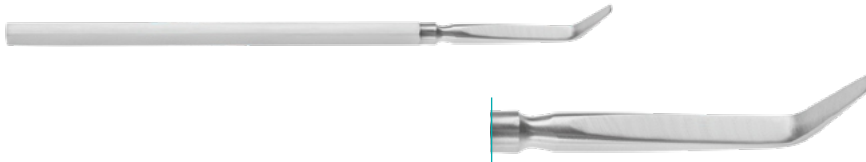


SMITHWICK

Nerve Hook

290mm, 11¹/₂"

250-507-290

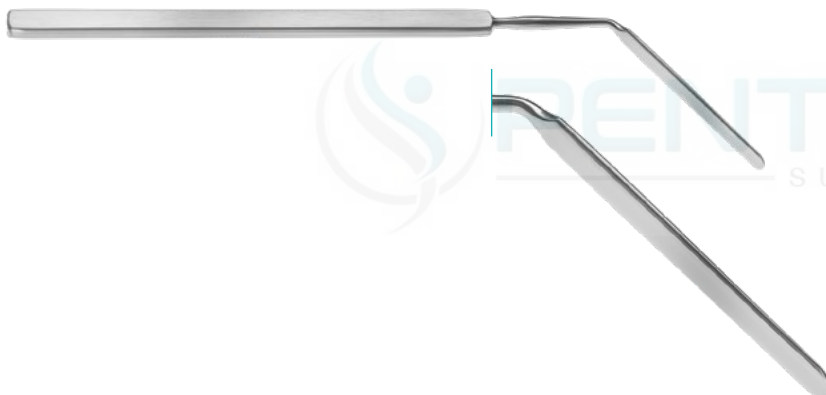


FRAZIER

Elevator

160mm, 6¹/₄"

250-746-150



HORSLEY

Dissector, angled

200mm, 8"

250-750-200



HOEN

Elevator, 150mm, 6"

45°

250-747-150

90°

250-747-153

**SACHS**

Dissector, sharp

210mm, 8¹/₄"

250-687-210

**DAVIS**

Dissector

195mm, 7³/₄"

250-696-195

**OLIVECRONA**

Dissector, double-ended

4 x 5mm, heavy pattern

180mm, 7"

250-694-180

240mm, 9¹/₂"

250-694-240

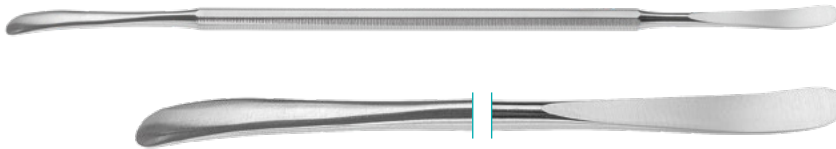
**OLIVECRONA**Dissector, double-ended, fenestrated tip,
2 x 3mm

180mm, 7"

250-696-180

240mm, 9¹/₂"

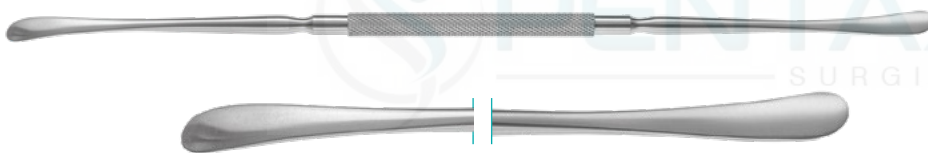
250-696-240



Dissector, double ended

220mm, 8²/₃"

290-500-220

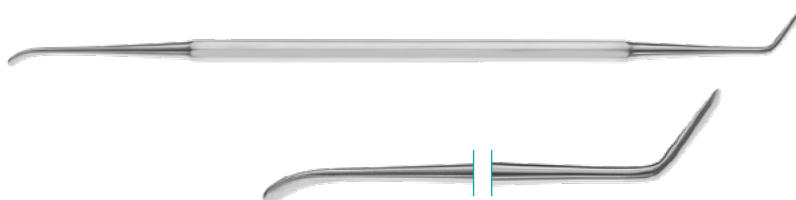


DAVIS

Vascular Dissector, double ended

245mm, 9²/₃"

290-300-245



MILLIGAN

Dura Dissector, double ended

210mm, 8¹/₄"

250-685-210



Fig. 1



Fig. 2



Fig. 3



Fig. 4

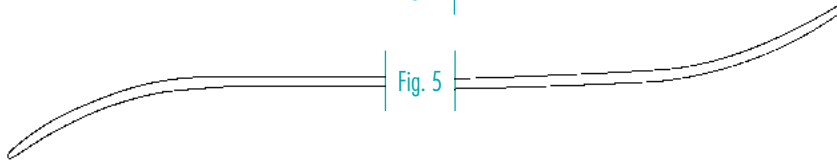


Fig. 5

PENFIELD

Dissector

Fig. 1 175mm, 6 ⁷ / ₈ "	250-691-175
Fig. 2 195mm, 7 ³ / ₄ "	250-692-195
Fig. 3 195mm, 7 ³ / ₄ "	250-693-195
Fig. 4 215mm, 8 ¹ / ₂ "	250-694-215
Fig. 5 290mm, 11 ¹ / ₂ "	250-695-290



TOENNIS

Dissector, blunt/blunt

Fig. 1 3+4mm	250-301-240
Fig. 2 5+6mm	250-302-240



FREER

Septum Elevator, sharp/blunt, 200mm, 8"

4.5mm	420-545-001
6.5mm	420-545-002



FREER

Septum Elevator, sharp/blunt, 5mm

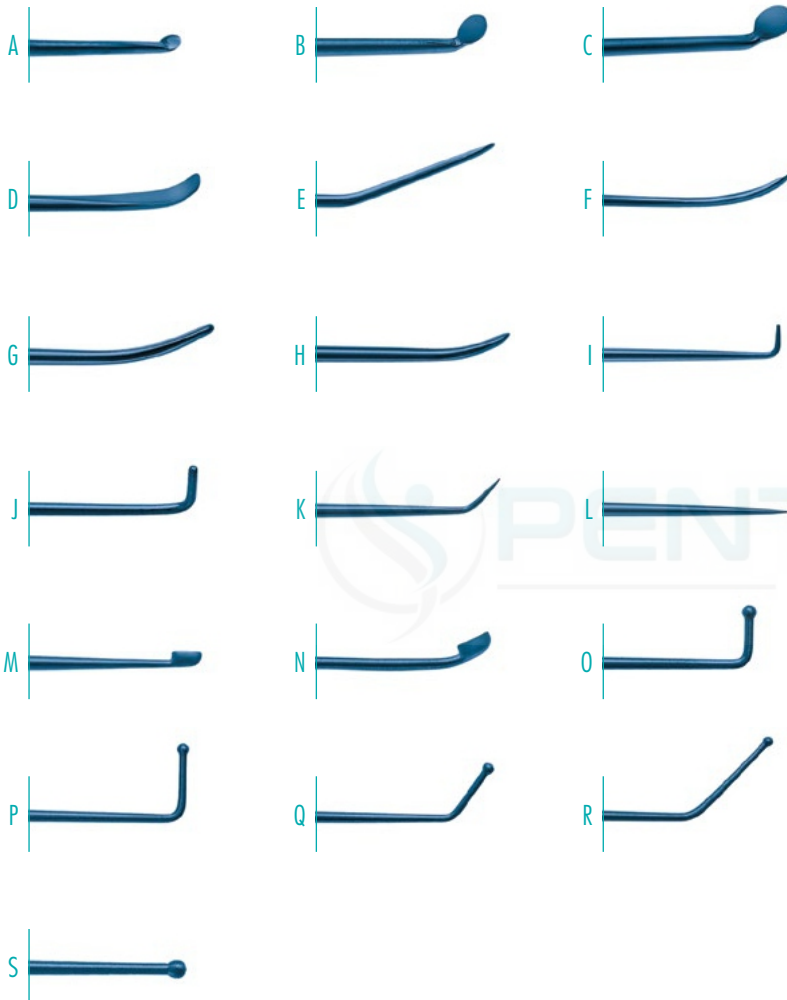
185mm, 7 ¹ / ₄ "	420-546-180
--	-------------

Ti

 Nerve Micro Dissection Instruments, Titanium
 190mm, 7¹/₂"


Scale 1:2

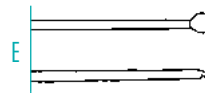
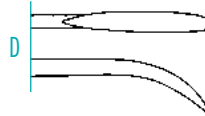
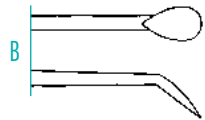
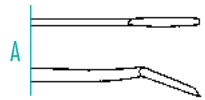
Scale 3:1 (A - S)



Round, Ø 1mm	250-501-190
Round, Ø 2mm	250-502-190
Round, Ø 3mm	250-503-190
Curved, 2.8mm	250-514-190
Angled, 1.2mm	250-515-190
Narrow, 1.0mm	250-517-190
Medium, 1.5mm	250-518-190
Wide, 2.0mm	250-519-190
90°, semi-sharp	250-520-190
90°, blunt	250-521-190
45°, semi-sharp	250-522-190
Straight, sharp	250-523-190
Straight, 1x2mm	250-524-190
Angled, 1x2mm	250-525-190
90°, 3mm	250-526-190
90°, 5mm	250-527-190
45°, 4mm	250-528-190
45°, 8mm	250-529-190
Straight	250-530-190
Set (+Tray)	250-501-001

Stainless Steel

Round, Ø 1mm	250-101-190
Round, Ø 2mm	250-102-190
Round, Ø 3mm	250-103-190
Curved, 2.8mm	250-114-190
Angled, 1.2mm	250-115-190
Narrow, 1.0mm	250-117-190
Medium, 1.5mm	250-118-190
Wide, 2.0mm	250-119-190
90°, blunt, 2.3mm	250-120-190
90°, blunt, 2.9mm	250-121-190
45°, semi-sharp	250-122-190
Straight, sharp	250-123-190
Straight, 1x2mm	250-124-190
Angled, 1x2mm	250-125-190
90°, 3mm	250-126-190
90°, 5mm	250-127-190
45°, 4mm	250-128-190
45°, 8mm	250-129-190
Straight	250-130-190
Set (+tray)	250-101-001



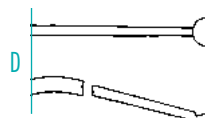
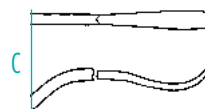
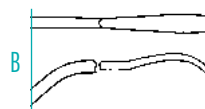
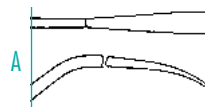
YASARGIL

Micro Raspatory, 185mm, 7¹/₄"

A	250-064-301
B	250-064-303
C	250-064-304
D	250-064-305

Micro Raspatory, round blade,
230mm, 9"

E	250-064-337
F	250-064-338



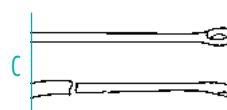
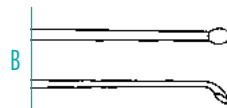
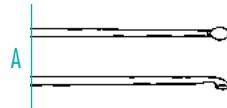
YASARGIL

Micro Raspatory, 185mm, 7¹/₄"

A	250-064-320
B	250-064-321
C	250-064-322

Micro Raspatory, 230mm, 9"

D	250-064-346
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Micro Scoop, 230mm, 9"

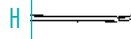
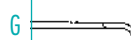
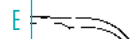
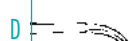
A 250-064-335

B 250-064-336

YASARGIL

Micro Raspatory, bayonet-shape, 185mm, 7¹/₄"

C 250-064-325



KOOS

Micro Vessel Knife, 185mm, 7¹/₄"

A 250-064-351

B 250-064-352

C 250-064-353

D 250-064-354

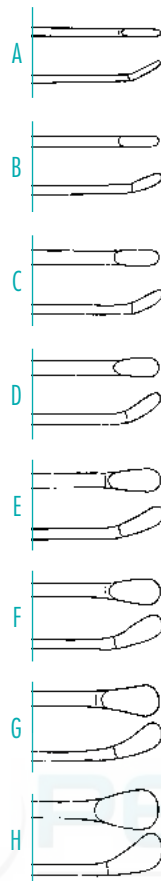
E 250-064-356

F 250-064-357

YASARGIL

G 250-064-365

H 250-064-366

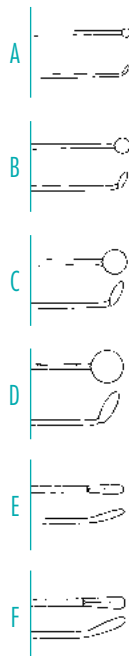

SAMII

Tumor Knife, 200mm, 8"

A.0mm	250-064-400
B.5mm	250-064-401
2.0mm	250-064-402
2.5mm	250-064-403
3.0mm	250-064-404
3.5mm	250-064-405
4.0mm	250-064-406
5.0mm	250-064-408

230mm, 9"

A.0mm	250-064-410
B.5mm	250-064-411
2.0mm	250-064-412
2.5mm	250-064-413
3.0mm	250-064-414
3.5mm	250-064-415
4.0mm	250-064-416
5.0mm	250-064-418

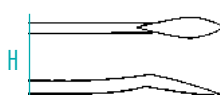
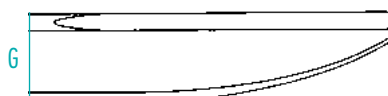
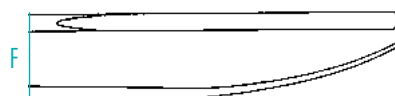
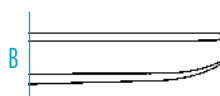
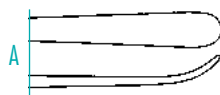

SAMII

Tumor Knife, 200mm, 8"

A.5mm	250-064-851
3.0mm	250-064-854
4.5mm	250-064-856
6.0mm	250-064-858

230mm, 9"

A.5mm	250-064-861
3.0mm	250-064-864
4.5mm	250-064-866
6.0mm	250-064-868
1.8mm	250-064-298
2.5mm	250-064-299



CASPAR

Micro Dissector, 230mm, 9"

4.5mm	250-066-303
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4.4mm	250-064-332
-------	-------------

2.0mm	250-064-333
-------	-------------

1.8mm	250-064-334
-------	-------------

 185mm, 7^{1/4}"

8.0mm	250-062-150
-------	-------------

200mm, 8"

1.0mm	250-066-310
-------	-------------

 215mm, 8^{1/2}"

8.0mm	250-062-151
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YASARGIL

 185mm, 7^{1/4}"

H	250-064-302
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Nerve Hook, 262mm, 10 ¹/₄" bayonet length,
black coated, 125mm, 5" working length

left	250-000-043
straight	250-000-042
right	250-000-044



Micro Nerve Hook

left	250-000-046
straight	250-000-045
right	250-000-047

Dissector

left	250-000-049
straight	250-000-048
right	250-000-050



Probe, 269mm, 10 ²/₃" bayonet length,
black coated, 125mm, 5" working length

WOODSON	250-000-035
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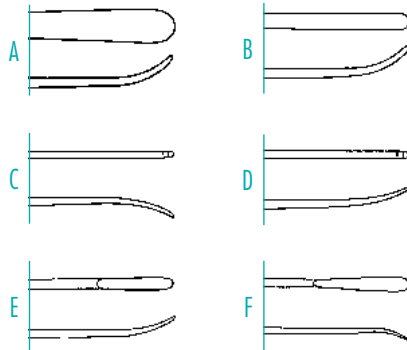
Hook, short, 6mm

left	250-000-037
straight	250-000-036
right	250-000-038



Hook, long, 9mm

left	250-000-040
straight	250-000-039
right	250-000-041


CASPAR

Micro Dissector, 230mm, 9"

4.5mm 250-066-305

2.0mm 250-066-307

 210mm, 8^{1/4}"

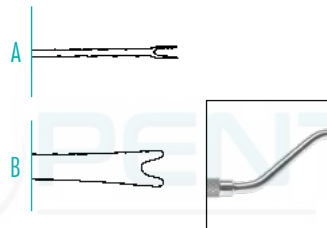
1.0mm 250-066-311

1.0mm 250-066-312

Micro Dissector, 230mm, 9"

E 250-064-343

F 250-064-344


JACOBSON

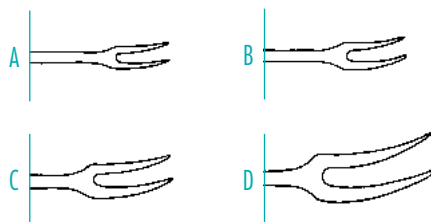
Suture Pusher

 185mm, 7^{1/4}" 250-064-315

CASPAR

Suture Pusher, bayonet-shape

230mm, 9" 250-066-309


OKONEK YASARGIL

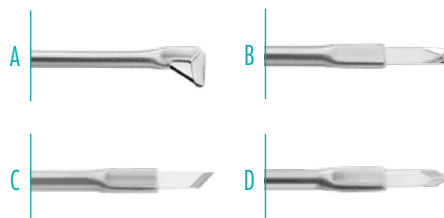
Tumor Fork, 230mm, 9"

3.0mm 250-064-380

2.0mm 250-064-381

5.0mm 250-064-382

8.0mm 250-064-384



Diamond Knife, 7 facets, single sided

 1.0 x 0.17mm, 205mm, 8^{1/8}"

Hook 1.4 x 0.17mm 250-001-100

Round 250-001-101

Straight, 45° 250-001-102

Lancet, 60° 250-001-103

LEYLAR RETRACTOR SYSTEM



YASARGIL

Retractor, 1 flexible arm, self-retaining, flexible,
complete set consisting of:
Fixation (250-066-267)
Flexible Arm (250-066-270)
Flat Spatula Holder (250-066-271)

250-066-260

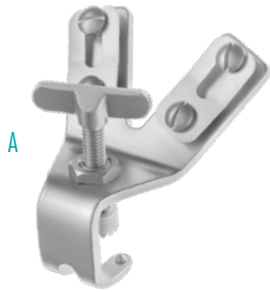


YASARGIL

Retractor, 2 flexible arms, self-retaining,
flexible, complete set consisting of:
Fixation for 2 arms (250-066-268)
Flexible Arm (2x 250-066-270)
Flat Spatula Holder (250-066-271)

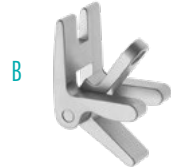
250-066-262

LEYLAR RETRACTOR SYSTEM



Fixation

for 2 arms (skull)	250-066-268
for 1 arm (skull)	250-066-267
for 1 arm (base)	250-066-266



YASARGIL

Spatula Holder

for round shaft	250-066-272
for flat Spatula	250-066-271



YASARGIL

Spatula, malleable

200 x 9mm	250-066-220
200 x 12mm	250-066-221
250 x 12mm	250-066-222



Spatula, malleable

200 x 14mm	250-066-231
200 x 17mm	250-066-232
200 x 20mm	250-066-233



HEIFETZ

Spatula, malleable

155 x 8mm	250-066-256
155 x 11mm	250-066-257
155 x 14mm	250-066-258
155 x 17mm	250-066-259

LEYLAR RETRACTOR SYSTEM



250-066-287

LEYLAR

Retractor Set,
1 Arm for fixation to/or table siderails
consisting of:

Ball and socket joint, articulated	250-066-280
Holding rod	250-066-285
Coupling head	250-066-282
Flexible Arm	250-066-270
Flat Spatula Holder	250-066-271

250-066-288

2 Arms
consisting of:

Ball and socket joint, articulated	250-066-280
Holding rod	250-066-285
Coupling head	250-066-282
Coupling head, rotatable	250-066-283
Fixation Base	250-066-266
Flexible Arm	250-066-270
Flat Spatula Holder	250-066-271


CUSHING

 Spatula, 170mm, 6²/₃"

7 x 9mm	250-066-212
7 x 9mm CeraCut®	250-066-212CC
8 x 10mm	250-066-213
8 x 10mm CeraCut®	250-066-213CC

200mm, 8"

7 x 9mm	250-066-214
7 x 9mm CeraCut®	250-066-214CC

280mm, 11"

16 x 18mm	250-066-215
16 x 18mm CeraCut®	250-066-215CC


OLIVECRONA

Spatula, flexible, 180mm, 7"

7 x 9mm	250-066-216
11 x 13mm	250-066-217
15 x 18mm	250-066-218
18 x 22mm	250-066-219

CeraCut®

7 x 9mm	250-066-216CC
11 x 13mm	250-066-217CC
15 x 18mm	250-066-218CC
18 x 22mm	250-066-219CC


AACHEN

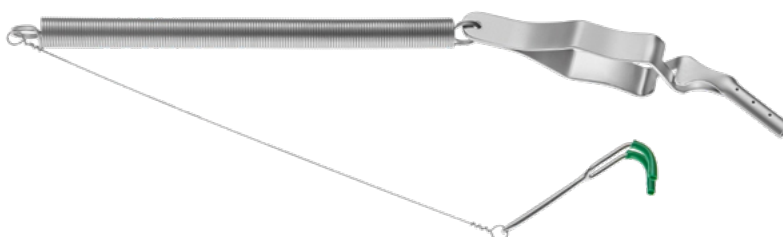
Spatula, 200mm 8"

7 x 8mm	250-066-441
11 x 11mm	250-066-442
13 x 14mm	250-066-443
16 x 17mm	250-066-444
19 x 20mm	250-066-445
22 x 25mm	250-066-446


SCOVILLE

Spatula, 203mm, 8"

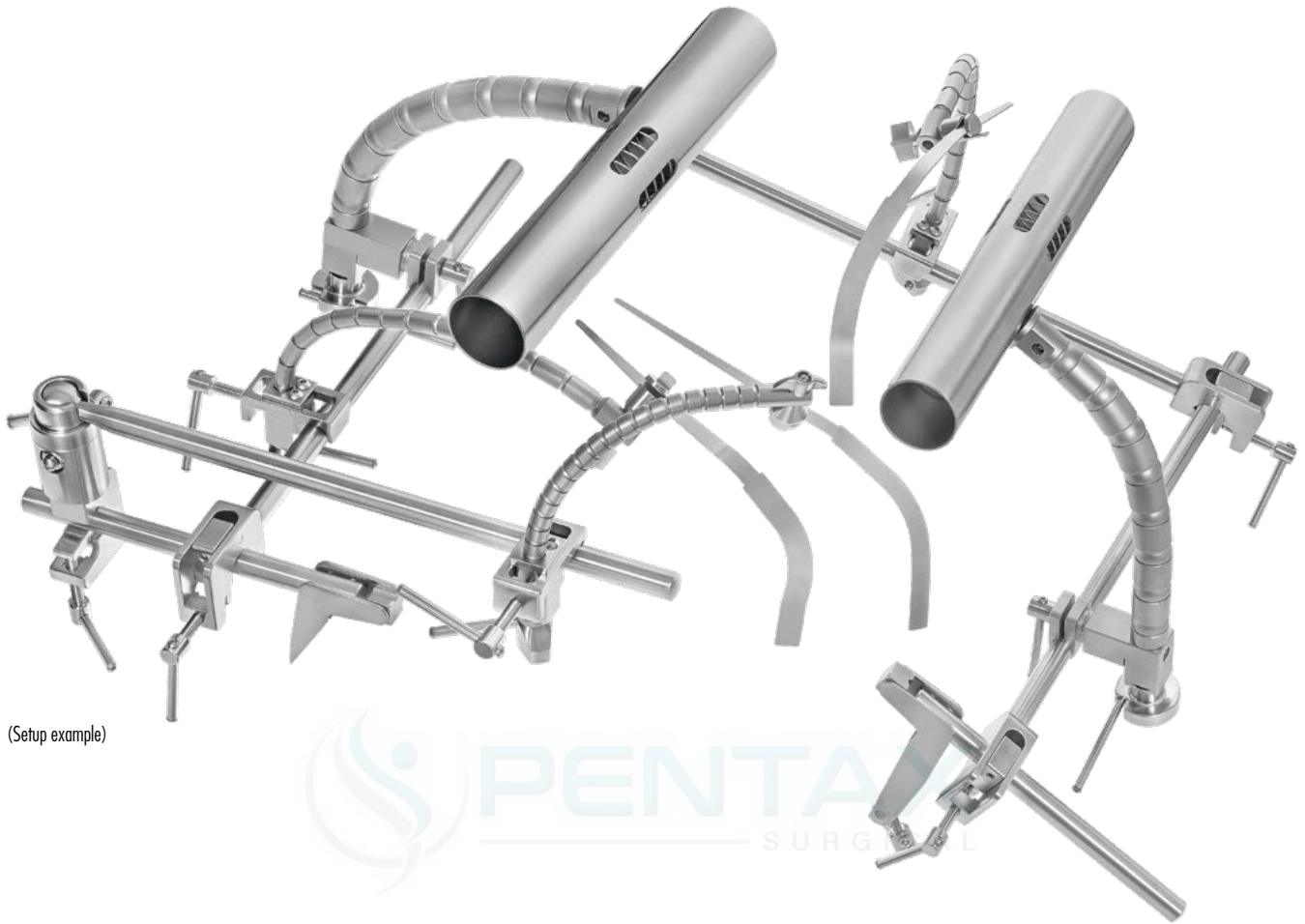
13 x 9.5mm	250-066-202
19 x 16mm	250-066-203


YASARGIL

 Galea Hook, 310mm, 12¹/₄"

Ø 7mm	250-066-020
410mm, 16"	
Ø 9mm	250-066-022

GRUENBERG RETRACTOR & HAND REST SYSTEM



(Setup example)

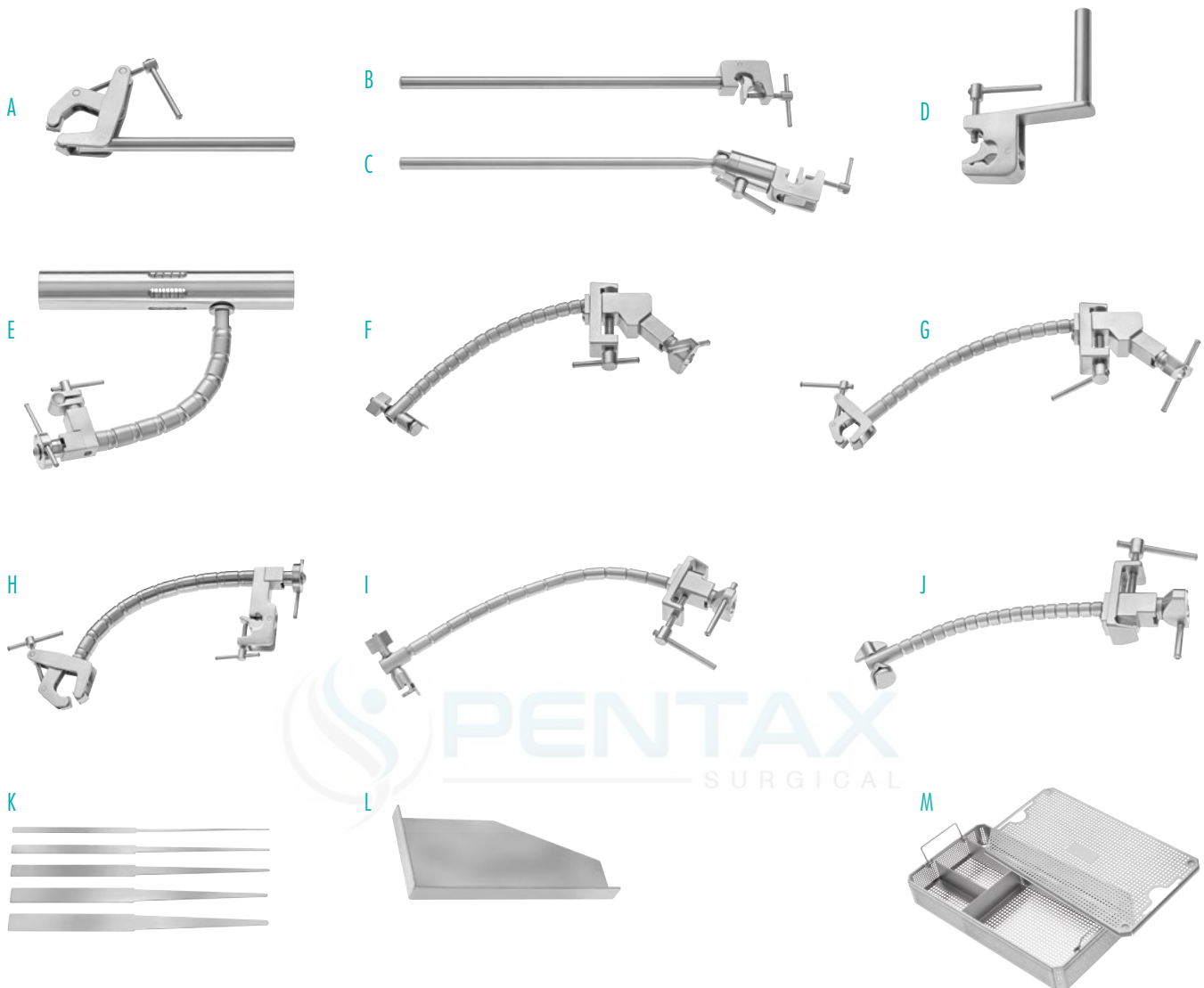
250-050-150

GRUENBERG

Retractor Kit, consisting of:

Primary Bar (2x)	250-050-007
Secodary Bar (4x)	250-050-002
Large Arm Retractor (4x)	250-050-009
Blade 1.6 x 19mm (1x)	250-050-050
Blade 2.0 x 10mm (1x)	250-050-051
Blade 3.0 x 13mm (1x)	250-050-052
Blade 4.0 x 16mm (1x)	250-050-053
Blade 6.0 x 19mm (1x)	250-050-054
Hand Rest (1x)	250-050-012
Pattie Tray (1x)	250-066-513

GRUENBERG RETRACTOR & HAND REST SYSTEM



GRUENBERG

Single Parts

A	Primary Bar, 152mm	250-050-007
B	Secondary Bar, 305mm	250-050-002
C	Floating Secondary Bar	250-050-003
D	Short Coupler	250-050-004
E	Hand Rest	250-050-012
F	Small Instrument Holder (up to 8mm)	250-050-030
G	Large Instrument Holder (up to 25mm)	250-050-031
H	Extra Large Instrument Holder (up to 51mm)	250-050-032
I	Micro Instrument Holder (up to 3mm)	250-050-033
J	Arm Retractor, short (165mm)	250-050-011
	Arm Retractor, large (240mm)	250-050-009

K	Blade, 1.6 x 19mm	250-050-050
	Blade, 2.0 x 10mm	250-050-051
	Blade, 3.0 x 13mm	250-050-052
	Blade, 4.0 x 16mm	250-050-053
	Blade, 6.0 x 19mm	250-050-054
L	Pattie Tray with towel clamps, 75 x 170 x 20mm	250-066-513
M	Sterilization Tray with 4 components, 480 x 253 x 70mm	600-050-514



MF Headrest System,
complete with skull clamp

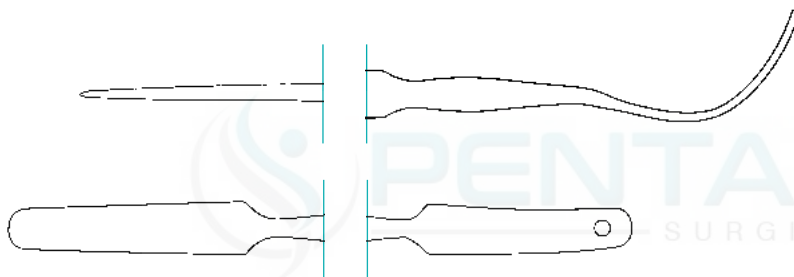
Aluminium 250-140-100



MF Headrest System,
with horseshoe headrest

Aluminium 250-140-105



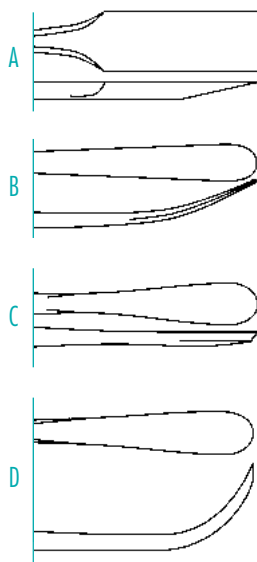


MCDONALD

Elevator, straight / curved

190mm, 7 1/2"

210-527-190



ADSON

 Elevator, 8mm, 170mm, 6²/₃"

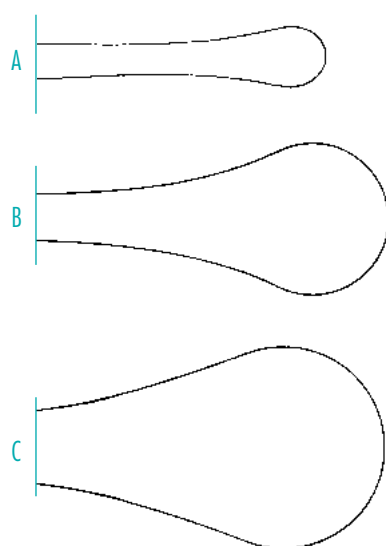
A straight, sharp 210-484-170

B curved, blunt 210-485-170

7mm

C straight, semi-sharp 210-486-170

D curved, semi-sharp 210-487-170



HOEN

Periosteal Elevator, 7mm

 A 60mm, 6¹/₄" 210-455-007

15mm

 B 85mm, 7¹/₄" 210-455-015

20mm

 C 90mm, 7¹/₂" 210-455-020



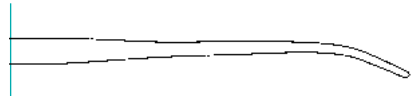
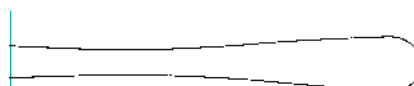
CUSHING

Periosteal Elevator
sharp end with rounded edge, 15mm

90mm, 7 1/2" 210-460-001

sharp end with square edge

90mm, 7 1/2" 210-460-003

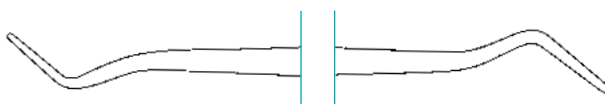


CUSHING LITTLE JOKER

Periosteal Elevator

150mm, 6" 210-488-150

190mm, 7 1/2" 210-488-190



WOODSON

Elevator and Spatula, semi-sharp, 3mm,
flat end 4mm

254mm 10" 250-746-250

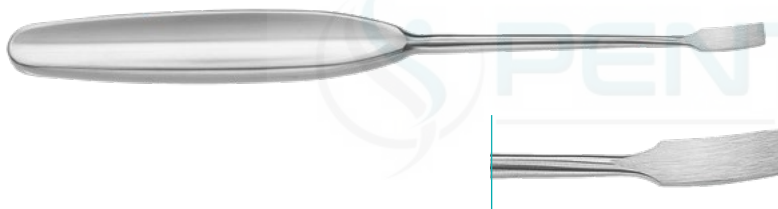


CLOWARD

Osteophyte Elevator, round handle,
90° curved tip, sharp

200mm, 8"

259-252-000



Periosteal Elevator
curved tip, 200mm, 8"

5.0mm

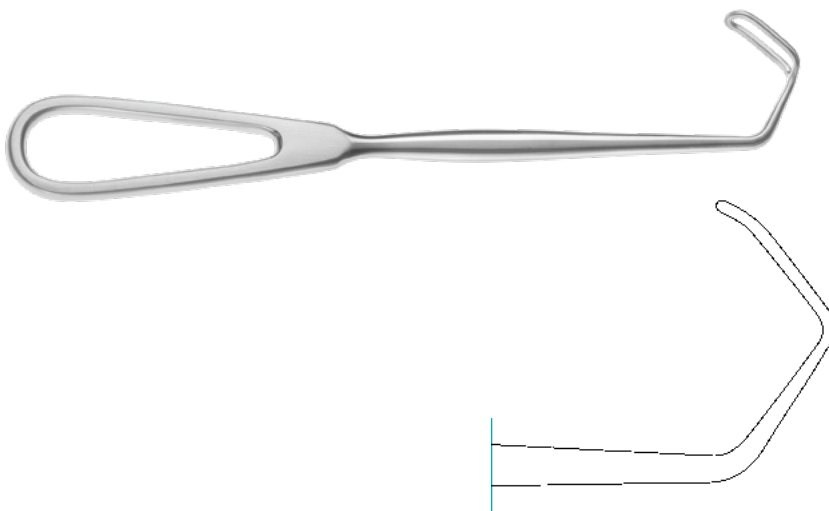
250-285-394

6.5mm

250-285-395

8.0mm

250-285-396

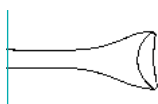


CUSHING

Retractor
22mm wide, open handle

210mm, 8^{1/4}"

170-237-210

**LOVE**

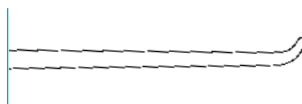
Nerve Root Retractor

190mm, 7^{1/2}"

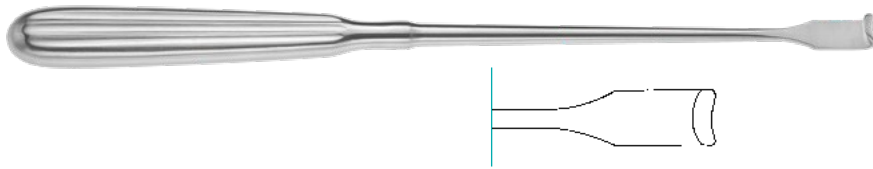
straight	250-694-190
45°	250-695-190
90°	250-697-190

**D'ERRICO**Nerve Spatula, bayonet shaped,
6mm wide

230mm, 9"	250-689-230
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**KRAYENBÜHL**Nerve Root Retractor
with guide groove, double bayonet shaped

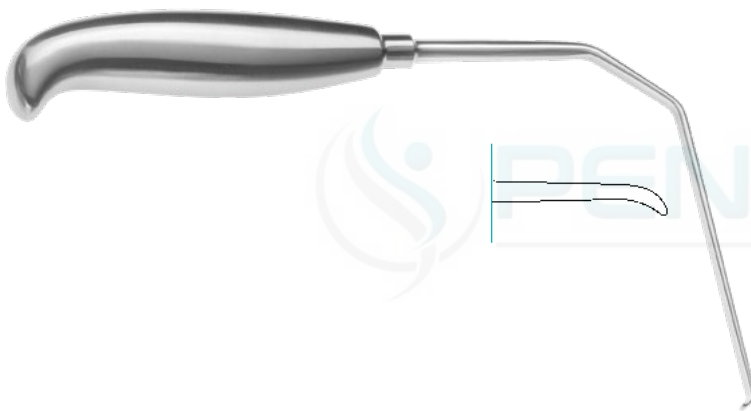
210mm, 8 ^{1/4} "	250-688-210
245mm, 9 ^{2/3} "	250-688-245



SCOVILLE

Nerve Root Retractor, 230mm, 9"

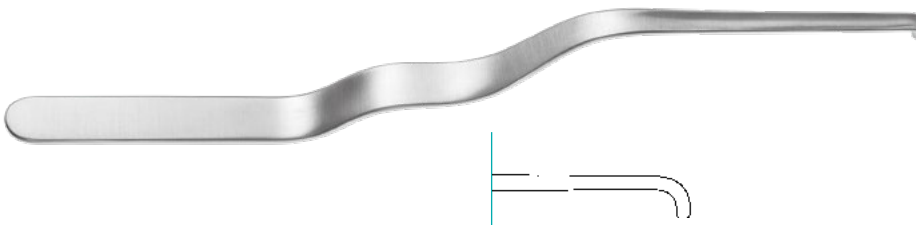
straight	250-698-230
45°	
90°	



HESS

Nerve Root Retractor, angled
175mm, 6⁷/₈"

3mm	250-690-030
4mm	250-690-040
5mm	250-690-050
7mm	250-690-070



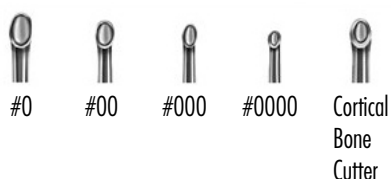
CASPAR

Nerve Root Retractor
240mm, 9¹/₂"

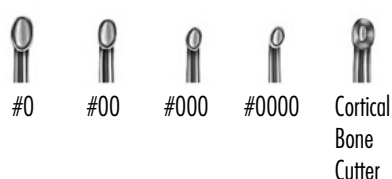
4mm	250-690-240
6mm	250-691-240
8mm	250-692-240
10mm	250-693-240



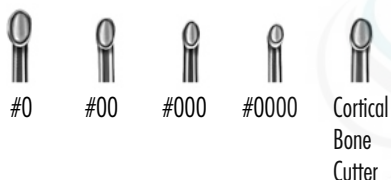
 **A**Forward straight



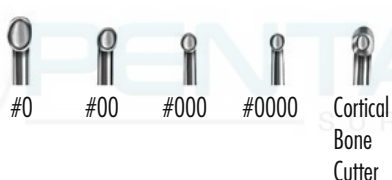
 **B**Forward angled



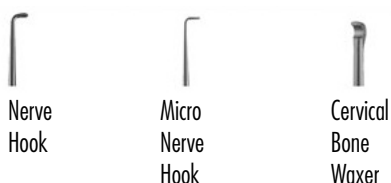
 **C**Backward straight



 **D**Backward angled



E Hooks



Microdiscectomy
Cervical Curette, 210mm, 8¹/₄"
Aforward straight

#0	259-100-100
#00	259-100-200
#000	259-100-300
#0000	259-100-400
Cortical Bone Cutter	259-100-500

Bforward angled

#0	259-101-100
#00	259-101-200
#000	259-101-300
#0000	259-101-400
Cortical Bone Cutter	259-101-500

Cbackward straight

#0	259-102-100
#00	259-102-200
#000	259-102-300
#0000	259-102-400
Cortical Bone Cutter	259-102-500

Dbackward angled

#0	259-103-100
#00	259-103-200
#000	259-103-300
#0000	259-103-400
Cortical Bone Cutter	259-103-500

E Hooks

Nerve Hook	259-104-001
Micro Nerve Hook	259-104-002
Cervical Bone Waxer	259-104-003



Microdissection
Lumbar Curette, 240mm, 9 1/2"

A forward straight

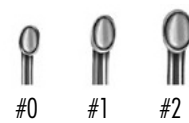
#0	259-120-100
#1	259-120-001
#2	259-120-002

A Forward straight



#0 #1 #2

B Forward angled



#0 #1 #2

B forward angled

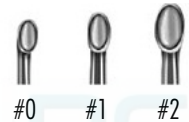
#0	259-121-100
#1	259-121-001
#2	259-121-002

C Forward down angled



#0 #1 #2

D Backward straight



#0 #1 #2

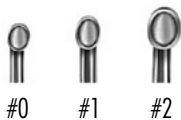
C forward down angled

#0	259-122-100
#1	259-122-001
#2	259-122-002

D backward straight

#0	259-124-100
#1	259-124-001
#2	259-124-002

E Backward angled



#0 #1 #2

F Backward down angled



#0 #1 #2

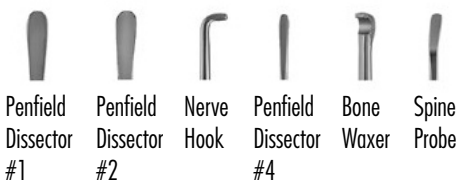
E backward angled

#0	259-125-100
#1	259-125-001
#2	259-125-002

F backward down angled

#0	259-126-100
#1	259-126-001
#2	259-126-002

G Instruments



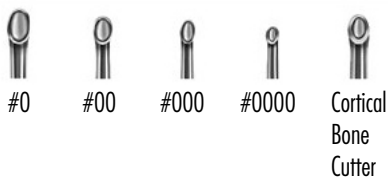
Penfield Dissector #1 Penfield Dissector #2 Nerve Hook Penfield Dissector #4 Bone Waxer Spine Probe

G Instruments

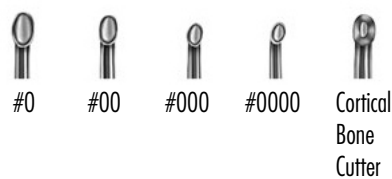
Penfield Dissector #1	259-127-001
Penfield Dissector #2	259-127-002
Nerve Hook	259-127-003
Penfield Dissector #4	259-127-004
Bone Waxer	259-127-005
Spine Probe	259-127-006



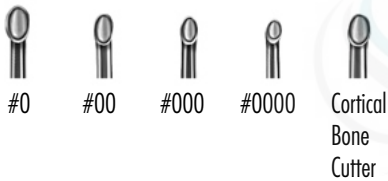
 **A**Forward straight



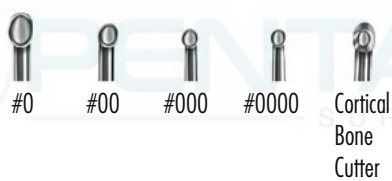
 **B**Forward angled



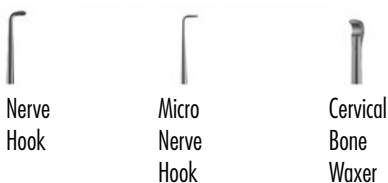
 **C**Backward straight



 **D**Backward angled



E Hooks



Microdiscectomy
Cervical Curette, 240mm, 9¹/₂"

Aforward straight

#0	259-110-100
#00	259-110-200
#000	259-110-300
#0000	259-110-400
Cortical Bone Cutter	259-110-500

Bforward angled

#0	259-111-100
#00	259-111-200
#000	259-111-300
#0000	259-111-400
Cortical Bone Cutter	259-111-500

Cbackward straight

#0	259-112-100
#00	259-112-200
#000	259-112-300
#0000	259-112-400
Cortical Bone Cutter	259-112-500

Dbackward angled

#0	259-113-100
#00	259-113-200
#000	259-113-300
#0000	259-113-400
Cortical Bone Cutter	259-113-500

E Hooks

Nerve Hook	259-114-001
Micro Nerve Hook	259-114-002
Cervical Bone Waxer	259-114-003



259-100-000
 Cervical Microdiscectomy Set
 consisting of:

259-100-200
 259-100-300
 259-100-400
 259-101-100
 259-101-300
 259-101-400
 259-102-300
 259-102-400
 259-103-200
 259-103-300
 259-104-001
 259-104-002
 600-404-000

259-110-000
 Cervical Microdiscectomy Set
 consisting of:

259-110-100
 259-110-300
 259-110-400
 259-111-100
 259-111-200
 259-111-300
 259-112-100
 259-112-200
 259-112-300
 259-113-100
 259-113-300
 259-113-400
 600-404-000

259-120-000
 Lumbar Microdiscectomy Set
 consisting of:

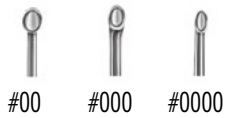
259-120-001
 259-120-002
 259-121-001
 259-121-002
 259-122-001
 259-122-002
 259-124-002
 259-125-001
 259-126-100
 259-126-001
 259-127-001
 259-127-004
 600-404-000

Case for Micro Curettes,
 12 Instruments (not illustrated)

265 x 255 x 45mm 600-404-000



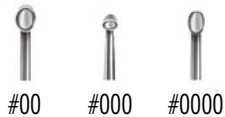
A Bayonet straight



B Bayonet 45° angled



C Bayonet 80° angled



A Forward angled



B Backward angled



C Dissectors



Micro Spinal Curettes, 210mm, 8 1/4"

A Bayonet straight

#00	259-140-200
#000	259-140-300
#0000	259-140-400

B Bayonet 45° angled

#00	259-141-200
#000	259-141-300
#0000	259-141-400

C Bayonet 80° angled

#00	259-142-200
#000	259-142-300
#0000	259-142-400

Micro Spinal Curette, 250mm, 9 7/8"

A Forward angled

#1	259-130-001
#2	259-130-002
#3	259-130-003
#4	259-130-004
#5	259-130-005

B backward angled

#1	259-131-001
#2	259-131-002
#3	259-131-003
#4	259-131-004
#5	259-131-005

C Dissector, straight

3mm	259-132-003
5mm	259-132-005



Curette measurements

Overall length	320mm, 12 ¹ / ₂ "
Handle length	200mm, 8"
Working length	125mm, 5"
Handle diameter	28mm, 1 ¹ / ₁₀ "

XL Curette measurements

Overall length	340mm, 13 ¹ / ₃ "
Handle length	220mm, 8 ² / ₃ "
Working length	125mm, 5"
Handle diameter	32mm, 1 ¹ / ₃ "

Cup Curette Set with 12 Curettes consisting of:

straight	
7mm	259-152-007
9mm	259-152-009
11mm	259-152-011
13mm	259-152-013
15mm	259-152-015
17mm	259-152-017
19mm	259-152-019

forward angled

7mm	259-152-107
9mm	259-152-109
11mm	259-152-111

backward angled

7mm	259-152-207
9mm	259-152-209



Straight



A

B

C

D

E

F

G



Forward angled



H

I

J



Backward angled



K

L

Cup Curette Set with 12 XL Curettes consisting of:

straight	
7mm	259-155-007
9mm	259-155-009
11mm	259-155-011
13mm	259-155-013
15mm	259-155-015
17mm	259-155-017
19mm	259-155-019

forward angled

7mm	259-155-107
9mm	259-155-109
11mm	259-155-111

backward angled

7mm	259-155-207
9mm	259-155-209



Chisel Set with 6 Chisels, straight
consisting of:

6mm	259-151-006
10mm	259-151-010
15mm	259-151-015
20mm	259-151-020
25mm	259-151-025
30mm	259-151-030
Sterilizing Case	259-151-002

Chisel measurements

Overall length	270mm, 10 ² / ₃ "
Handle length	145mm, 5 ³ / ₄ "
Working length	125mm, 5"
Handle diameter	32mm, 1 ¹ / ₃ "



Chisel Set with 6 Chisels, curved
consisting of:

6mm	259-151-106
10mm	259-151-110
15mm	259-151-115
20mm	259-151-120
25mm	259-151-125
30mm	259-151-130
Sterilizing Case	259-151-002



A



B



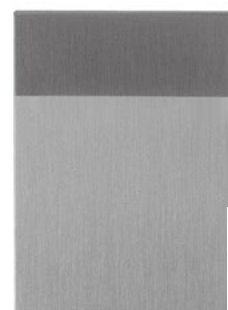
C



D



E



F



Ring Curette measurements

Overall length	320mm, 12 ¹ / ₂ "
Handle length	200mm, 8"
Working length	125mm, 5"
Handle diameter	28mm, 1 ¹ / ₁₀ "

XL Ring Curette measurements

Overall length	340mm, 13 ¹ / ₃ "
Handle length	220mm, 8 ² / ₃ "
Working length	125mm, 5"
Handle diameter	32mm, 1 ¹ / ₃ "

Ring Curette Set with 6 Ring Curettes consisting of:

6mm	259-153-006
8mm	259-153-008
11mm	259-153-010

angled

6mm	259-153-106
8mm	259-153-108
11mm	259-153-110

Ring Curette Set with 6 XL Ring Curettes consisting of:

6mm	259-154-006
8mm	259-154-008
11mm	259-154-010

angled

6mm	259-154-106
8mm	259-154-108
11mm	259-154-110



straight



angled



A

B

C



A

B

C



Elevator measurements

Overall length	320mm, 12 ¹ / ₂ "
Handle length	200mm, 8"
Working length	125mm, 5"
Handle Diameter	28mm, 1 ¹ / ₁₀ "

XL Elevator measurements

Overall length	340mm, 13 ¹ / ₃ "
Handle length	220mm, 8 ² / ₃ "
Working length	125mm, 5"
Handle diameter	32mm, 1 ¹ / ₃ "

Elevator Set with 6 Elevators consisting of:

A 0mm	259-157-010
B 5mm	259-157-015
20mm	259-157-020
25mm	259-157-025
80mm	259-157-030
85mm	259-157-035

Elevator Set with XL 6 Elevators consisting of:

A 0mm	259-158-010
B 5mm	259-158-015
20mm	259-158-020
25mm	259-158-025
80mm	259-158-030
85mm	259-158-035



A



B



C



D



E



F



SMITH PETERSON

Mallet with brass head, aluminium handle,
Ø 38mm, 282g

Overall length 259-149-165
165mm, 6¹/₂"



Mallet, large, Ø 31.8mm, 340g

Overall length 259-149-002
247mm, 9²/₃"



Mallet, small, Ø 22.5mm, 193g

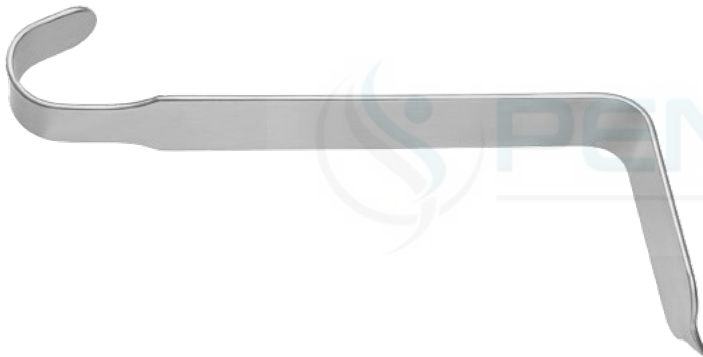
Overall length 259-149-001
241mm, 9¹/₃"



CLOWARD

Retractor, 112mm handle length

70x13mm	259-260-001
75x18mm	259-260-002
75x20mm	259-260-003
75x23mm	259-260-004



TAYLOR

Spinal Retractor, 185mm, 7 1/4"

70x30mm	210-571-165
85x30mm	210-572-165
100x30mm	210-573-165



HIBBS

Retractor, Fig. 0, 230mm, 9"

25x13mm	170-200-000
Fig. 1, 230mm, 9"	
75x25mm	170-200-001
Fig. 2, 240mm, 9 1/2"	
80x25mm	170-200-002



HIBBS

2-piece Retractor Set
19x50mm blade

235mm, 9¹/₄"

250-979-235



INGE

Lamina Spreader, with teeth

170mm, 6²/₃"

250-975-170

270mm, 10²/₃"

250-975-270



Lamina Spreader

265mm, 10¹/₂"

250-978-265


CUSHING LANDOLT

 Specula for transsphenoidal hypophysectomy,
 black finishing

70 x 15mm	250-150-100
100 x 15mm	250-150-102


PAPAVERO CASPAR

 Specula for trans-sphenoidal hypophysectomy,
 stainless steel

80 x 11mm	250-150-589
90 x 13mm	250-150-590
100 x 15mm	250-150-591

black finishing

80 x 11mm	250-150-689
90 x 13mm	250-150-690
100 x 15mm	250-150-691

Key for specula

250-150-592



Transnasal Speculum, stainless steel, matted

80 x 9mm	250-150-280
90 x 9mm	250-150-290
100 x 9mm	250-150-300



MEYERDING

Laminectomy Retractor, 200mm, 8"

25x32mm blade	170-791-001
25x54mm blade	170-791-002
19x60mm blade	170-791-003
25x60mm blade	170-791-004



MEYERDING

Hemi Laminectomy Retractor, 180mm, 7"

10mm wide blade, solid blade left

50mm	170-792-001
60mm	170-792-002
70mm	170-792-006

solid blade right

50mm	170-793-001
60mm	170-793-008
70mm	170-793-007

20mm wide blade, solid blade left

50mm	170-792-004
60mm	170-792-003
70mm	170-792-005

solid blade right

50mm	170-793-004
60mm	170-793-005
70mm	170-793-002



MARKHAM MEYERDING

Laminectomy Retractor, 165mm, 6¹/₂"

solid blade left

25x65mm	170-790-007
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solid blade right

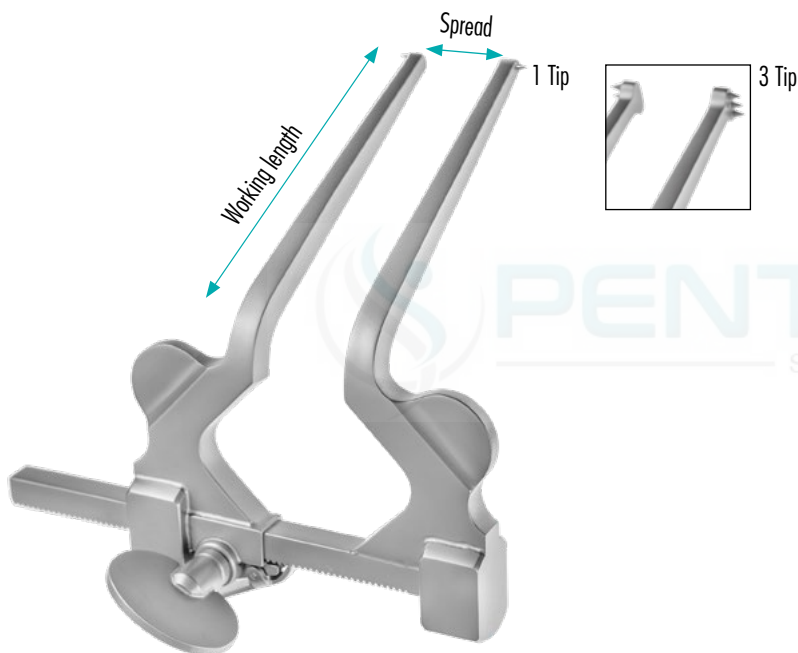
25x65mm	170-790-008
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Vertebral Distractor, 127mm length

18mm spread

250-259-018



Vertebral Distractor, with 3 tips,
70mm working length

70mm spread

250-259-070



CLOWARD

Lamina Spreader

160mm, 6^{1/4}"

250-973-160



CLOWARD

Self-Retaining Retractor Set, 150mm, 6"
complete with 5 blades

58mm spread	170-780-160
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Blades

40mm, 1 ⁵ / ₈ "	170-780-040
---------------------------------------	-------------

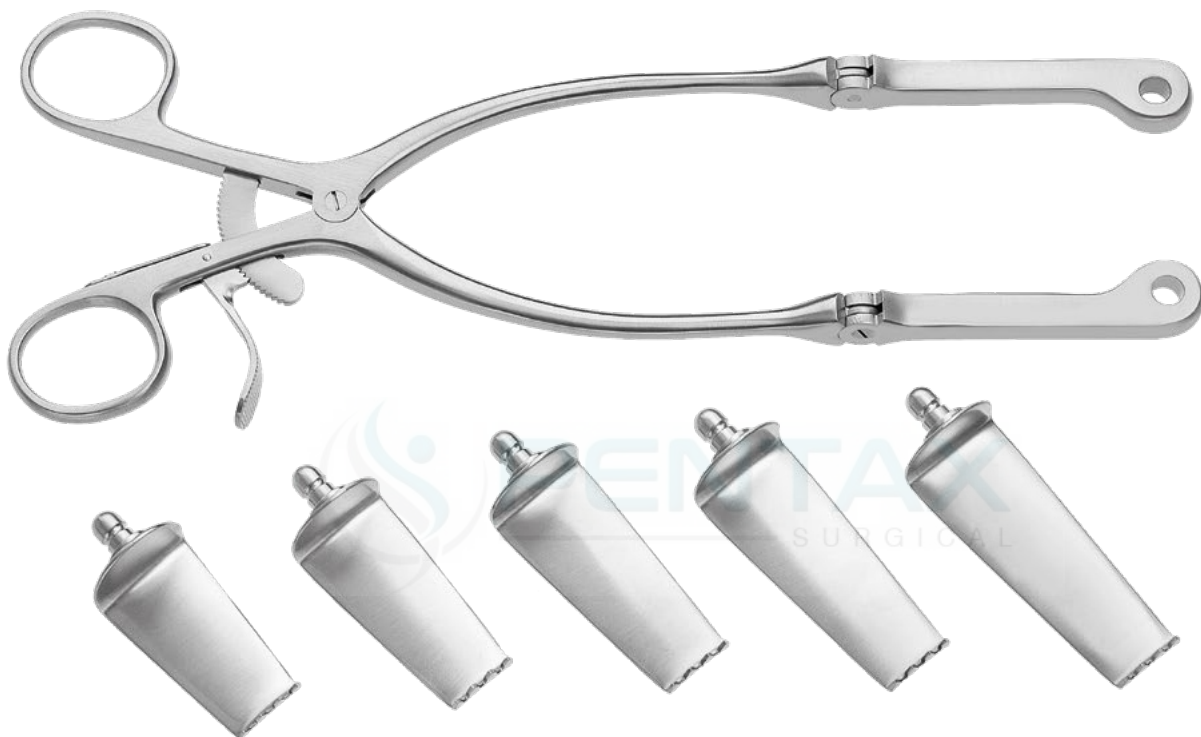
45mm, 1 ⁶ / ₈ "	170-780-045
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50mm, 2"	170-780-050
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55mm, 2 ¹ / ₈ "	170-780-055
---------------------------------------	-------------

60mm, 2 ³ / ₈ "	170-780-060
---------------------------------------	-------------





CLOWARD

Self-Retaining Retractor Set, 250mm, 9⁷/₈"
complete with 5 pairs of blades

170-774-000

Blades (pair)

40mm, 1 ⁵ / ₈ "	170-774-040
45mm, 1 ⁶ / ₈ "	170-774-045
50mm, 2"	170-774-050
55mm, 2 ¹ / ₈ "	170-774-055
60mm, 2 ³ / ₈ "	170-774-060

SCOVILLE DISTRACTOR



SCOVILLE HAVERFIELD

Spreader, rigid arms, without valves

171mm spread	170-906-000
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hinged arms, without valves

171mm spread	170-906-001
--------------	-------------



Hook, blunt

51mm	170-906-102
------	-------------

75mm	170-906-104
------	-------------



Hook, with crossbar

51mm	170-906-106
------	-------------

75mm	170-906-108
------	-------------



Blade, toothed

26 x 63mm	170-906-122
-----------	-------------

51 x 63mm	170-906-124
-----------	-------------

32 x 66mm	170-906-126
-----------	-------------

26 x 89mm	170-906-128
-----------	-------------



Blade, forked, blunt

38 x 41mm	170-906-144
-----------	-------------

48 x 66mm	170-906-145
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MEYERDING

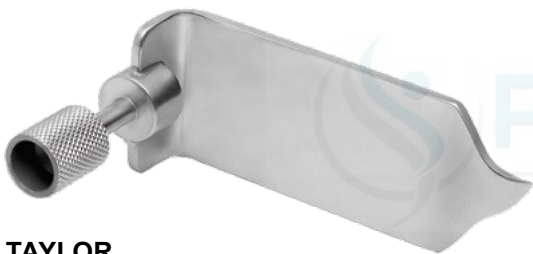
Blade, toothed

26 x 61mm	170-906-162
26 x 67mm	170-906-164
51 x 89mm	170-906-166


HIBBS

Blade, toothed

26 x 51mm	170-906-182
51 x 51mm	170-906-184
26 x 63mm	170-906-186
38 x 63mm	170-906-188
26 x 76mm	170-906-190
38 x 76mm	170-906-192
51 x 76mm	170-906-194
26 x 101mm	170-906-196
51 x 101mm	170-906-198


TAYLOR

Blade

32 x 76mm	170-906-120
32 x 101mm	170-906-121


TAYLOR

Blade, forked, sharp

38 x 44mm	170-906-132
-----------	-------------


TAYLOR

Blade, forked, blunt

51 x 48mm	170-906-141
63 x 63mm	170-906-142
58 x 82mm	170-906-143

CASPAR CERVICAL DISTRACTOR



CASPAR
Cervical Distractor System



CASPAR
Cervical Distractor with 110mm rack
for two-level distraction

left approach	259-190-110
right approach	259-190-111

with 130mm rack
for multi-level distraction

left approach	259-190-130
right approach	259-190-131



CASPAR
Drill Guide

left	259-190-200
right	259-190-300

CASPAR CERVICAL DISTRACTOR



CASPAR

Drill Bit, 2.35mm shank, 148mm overall length
Ø 1.7mm

8mm drilling depth	259-190-408
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14mm drilling depth	259-190-414
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CASPAR

Distraction Screw, self-drilling

12mm	259-190-512
------	-------------

14mm	259-190-514
------	-------------

16mm	259-190-516
------	-------------

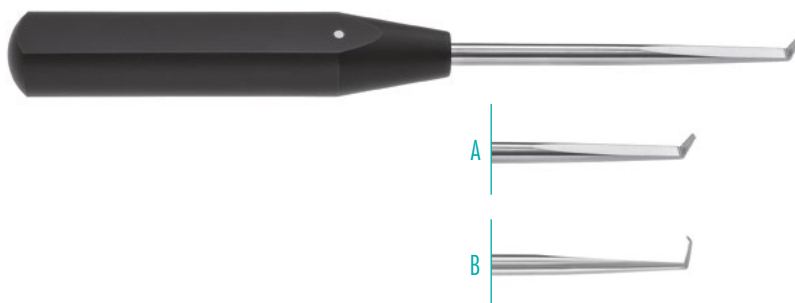
18mm	259-190-518
------	-------------



CASPAR

Screw Driver, 200mm overall length

259-190-550



CASPAR

Dissector, 205mm, 8¹/₄"

A	259-185-917
---	-------------

B	259-185-918
---	-------------

CASPAR CERVICAL RETRACTOR SYSTEM



CASPAR

CCR Basis Retractor, double hinged arms,
reverse butterfly screw, distal hinge made of
titanium

259-180-490



CASPAR

Basis Counter Retractor, double hinged arms,
distal hinge made of titanium

259-180-470



CASPAR

Counter Retractor, distal hinge made of titanium

259-180-480

CASPAR CERVICAL RETRACTOR SYSTEM



CASPAR

Side Load Handle for use with titanium blades

259-180-100



CASPAR

Caspar Handle for blades, side load, cannulated, with Luer Lock, ratchet mechanism

259-180-101



CASPAR

Depth Gauge

259-180-200



Titanium Medial/Lateral Blade, 4 prongs,
19mm width

25mm	259-180-125
30mm	259-180-130
35mm	259-180-135
40mm	259-180-140
45mm	259-180-145
50mm	259-180-150
55mm	259-180-155
60mm	259-180-160
65mm	259-180-165
70mm	259-180-170
75mm	259-180-175



Titanium Longitudinal Blade, blunt
19mm width

25mm	259-180-225
30mm	259-180-230
35mm	259-180-235
40mm	259-180-240
45mm	259-180-245
50mm	259-180-250
55mm	259-180-255
60mm	259-180-260
65mm	259-180-265
70mm	259-180-270
75mm	259-180-275



Titanium Lateral Blade, 8 teeth
24mm width

25mm	259-180-325
30mm	259-180-330
35mm	259-180-335
40mm	259-180-340
45mm	259-180-345
50mm	259-180-350
55mm	259-180-355
60mm	259-180-360
65mm	259-180-365
70mm	259-180-370
75mm	259-180-375



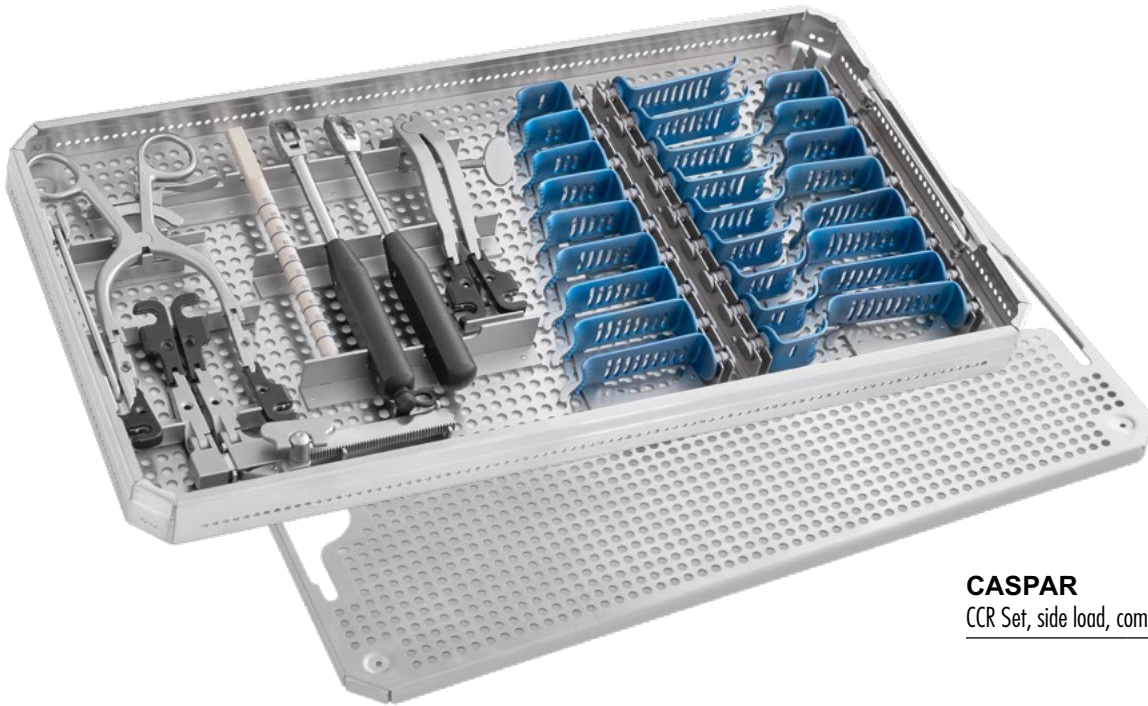
Titanium Medial Blade, 5 prongs,
24mm width

25mm	259-180-425
30mm	259-180-430
35mm	259-180-435
40mm	259-180-440
45mm	259-180-445
50mm	259-180-450
55mm	259-180-455
60mm	259-180-460
65mm	259-180-465
70mm	259-180-471
75mm	259-180-475



Titanium Longitudinal Blade, blunt
24mm width

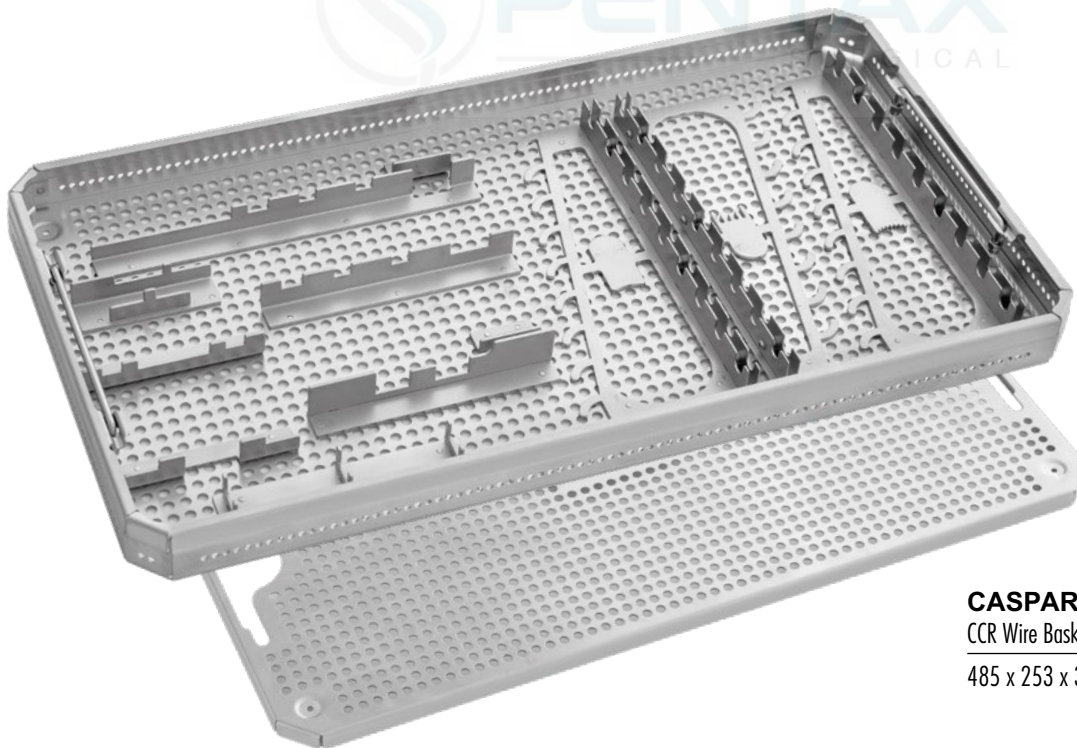
25mm	259-180-525
30mm	259-180-530
35mm	259-180-535
40mm	259-180-540
45mm	259-180-545
50mm	259-180-550
55mm	259-180-555
60mm	259-180-560
65mm	259-180-565
70mm	259-180-570
75mm	259-180-575



CASPAR

CCR Set, side load, complete

259-180-000

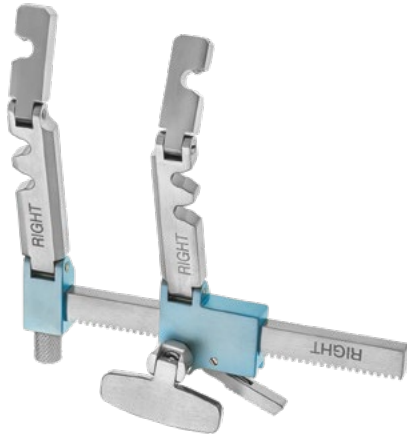


CASPAR

CCR Wire Basket, with lid

485 x 253 x 30mm 259-180-001

RAINBOW CERVICAL RETRACTOR



Rainbow Cervical Retractor Frame Right
Max opening: 65mm
Arm length: 80mm

259-188-001



Rainbow Cervical Retractor Frame Left
Max opening: 65mm
Arm length: 80mm

259-188-002



Rainbow Cervical Retractor Offset
Max opening: 80mm
Arm length: 80mm

259-188-003



Rainbow Lumbar Retractor Frame
with instrument coupling
Max opening: 80mm
Arm length: 80mm

259-188-101

RAINBOW CERVICAL RETRACTOR



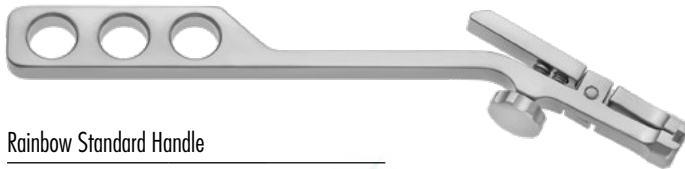
Rainbow Cervical Toothed Rack
with finger screw

259-188-032



Rainbow Handle

259-188-005



Rainbow Standard Handle

259-188-102



Rainbow Cervical Depth Gauge
with color markings

259-188-102



Rainbow Valve

ASharp 259-188-029

BT-Valve 259-188-030

CLigament 259-188-031



Rainbow Instrument Coupling

259-188-028

RAINBOW CERVICAL RETRACTOR



Rainbow Valve, 4 prongs

34mm	●	259-188-013
40mm	●	259-188-014
45mm	●	259-188-015
50mm	●	259-188-016
55mm	●	259-188-017
60mm	●	259-188-018
70mm	●	259-188-019
85mm	●	259-188-020



Rainbow Depth Valve, 4 prongs

40mm	●	259-188-007
47mm	●	259-188-008
55mm	●	259-188-009



Rainbow Depth Valve

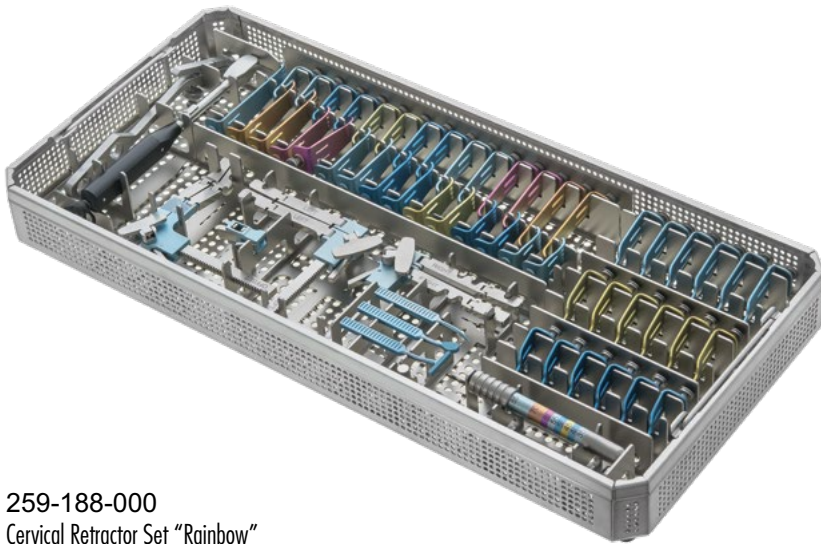
40mm	●	259-188-010
47mm	●	259-188-011
55mm	●	259-188-012



Rainbow Blunt Valve

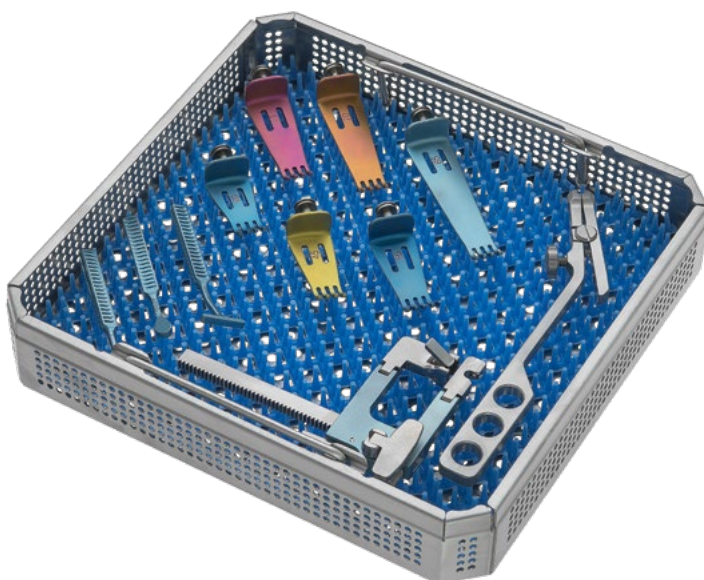
34mm	●	259-188-021
40mm	●	259-188-022
45mm	●	259-188-023
50mm	●	259-188-024
55mm	●	259-188-025
60mm	●	259-188-026
70mm	●	259-188-027

RAINBOW CERVICAL RETRACTOR



259-188-000
 Cervical Retractor Set "Rainbow"
 consisting of:

1x	259-188-001	2x		259-188-012	2x		259-188-023
1x	259-188-002	2x		259-188-013	2x		259-188-024
1x	259-188-003	2x		259-188-014	2x		259-188-025
1x	259-188-004	2x		259-188-015	2x		259-188-026
1x	259-188-005	2x		259-188-016	2x		259-188-027
1x	259-188-102	2x		259-188-017	1x		259-188-028
4x 	259-188-007	2x		259-188-018	1x		259-188-029
4x 	259-188-008	2x		259-188-019	1x		259-188-030
4x 	259-188-009	1x		259-188-020	1x		259-188-031
2x 	259-188-010	2x		259-188-021	1x		259-188-032
2x 	259-188-011	2x		259-188-022	1x (Container only)		259-188-033



259-188-100
 Lumbar Microdiscectomy Retractor Set
 "Rainbow"
 consisting of:

1x	259-188-101
1x	259-188-102
1x	259-188-029
1x	259-188-030
1x	259-188-031
1x	259-188-014
1x	259-188-015
1x	259-188-016
1x	259-188-018
1x	259-188-019
1x	259-188-020
1x (Container only)	259-188-133

CASPAR LUMBAR RETRACTOR



CLR Retractor side-load

259-190-610



CCR/CLR handle for blades, with black PPSU handle

259-180-100



CCR/CLR handle for blades, cannulated with luer-lock,
with black PPSU handle

259-180-101



CCR/CLR Depth Gauge instrument, natural

259-180-200

CASPAR LUMBAR RETRACTOR



CLR Blade, side load, width: 20mm,
color: blue, 3 prongs

20 x 35mm	259-190-235
20 x 40mm	259-190-240
20 x 45mm	259-190-245
20 x 55mm	259-190-255
20 x 65mm	259-190-265



CLR Blade, side load, width: 40mm,
color: blue, 3 prongs

40 x 35mm	259-190-435
40 x 40mm	259-190-440
40 x 45mm	259-190-445
40 x 55mm	259-190-455
40 x 65mm	259-190-465
40 x 75mm	259-190-475



CLR Blade, side load, width: 60mm,
color: blue, 3 prongs

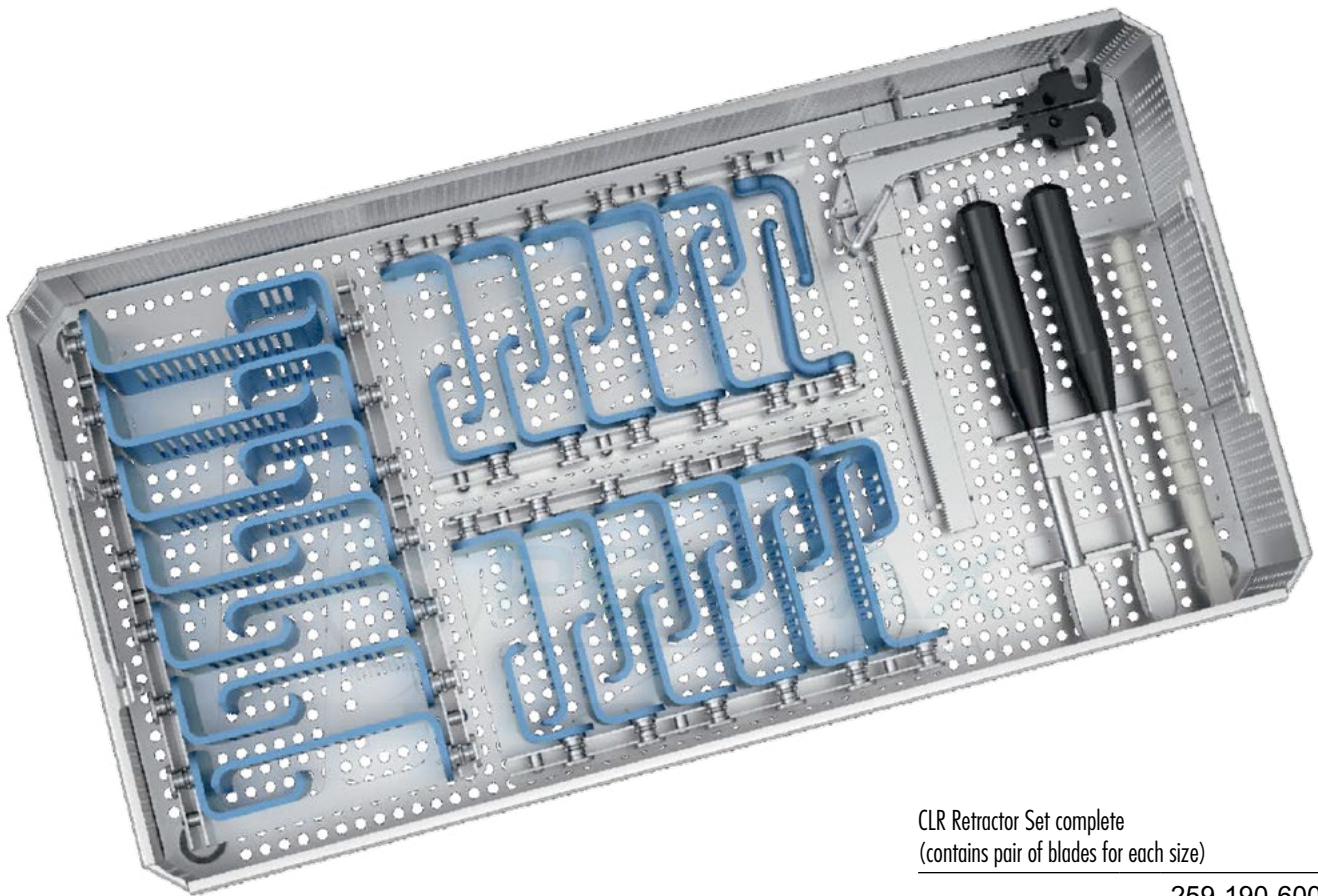
60 x 35mm	259-190-635
60 x 40mm	259-190-640
60 x 45mm	259-190-645
60 x 55mm	259-190-655
60 x 65mm	259-190-665
60 x 75mm	259-190-675
60 x 85mm	259-190-685



Hemi-laminectomy hook, color: blue

small	259-190-231
large	259-190-232

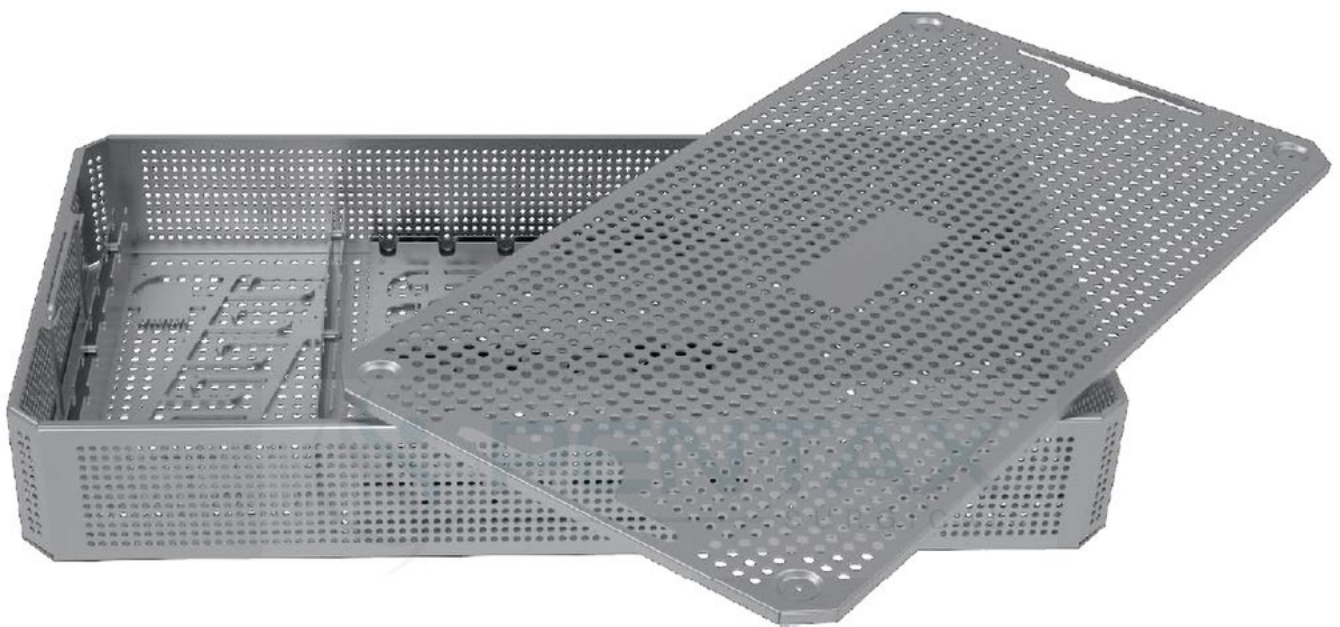
CASPAR LUMBAR RETRACTOR



CLR Retractor Set complete
(contains pair of blades for each size)

259-190-600

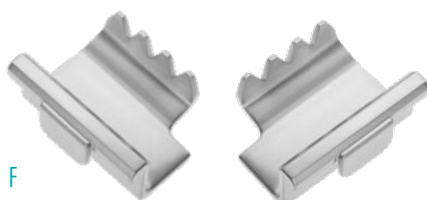
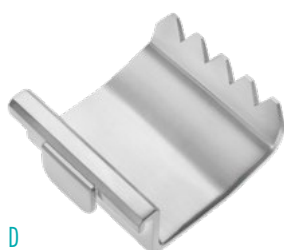
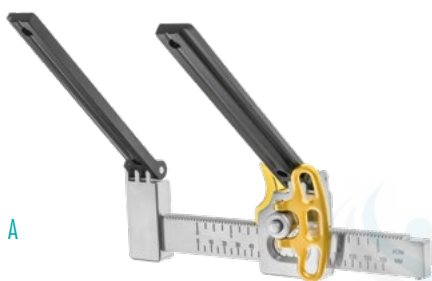
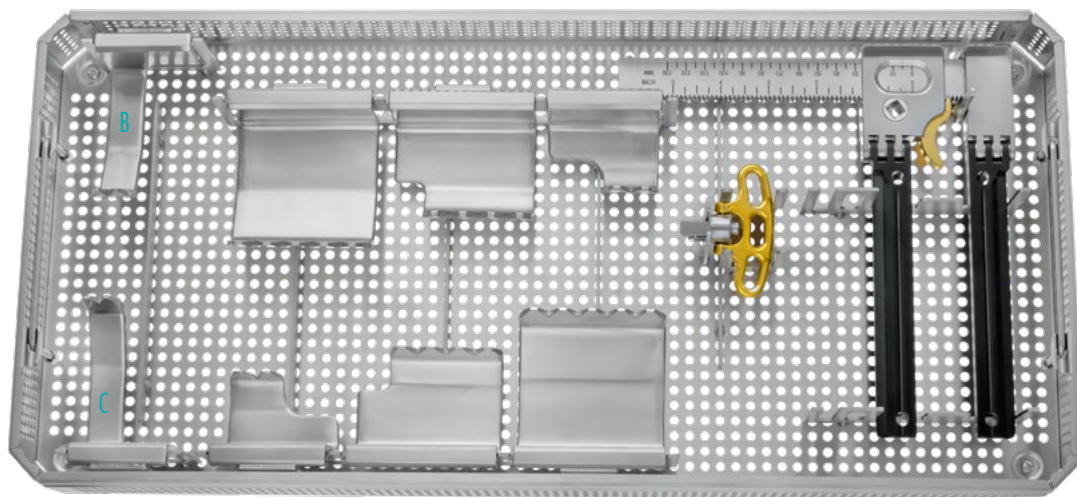
CASPAR LUMBAR RETRACTOR



CLR Retractor Set Tray empty

259-190-601

BUTTERFLY SPINE RETRACTOR SET



Lightweight, new designed set

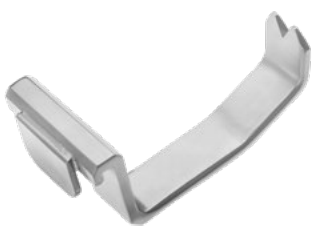
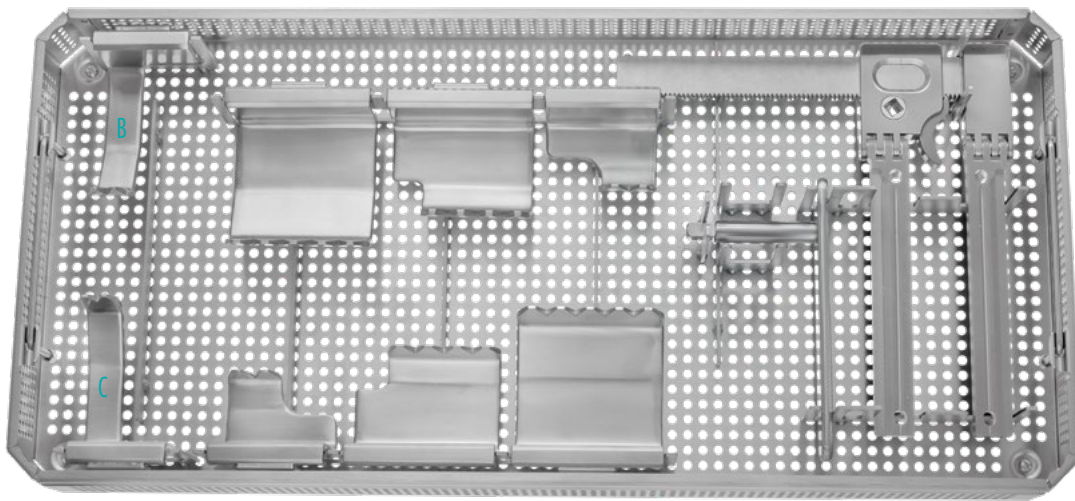
with tray 290-300-340

without tray 290-300-330

 Optional, not included in the set

Set consists of

Type	Width	Length	Quantity	
Retractor			1	290-300-311
Retractor 5 teeth	76mm	64mm	2	290-300-312
Retractor left	31mm	38mm	1	290-300-313
Retractor right	31mm	38mm	1	290-300-314
Retractor left	57mm	44mm	1	290-300-315
Retractor right	57mm	44mm	1	290-300-316



Standard Butterfly Set

with tray and lid 290-300-320

without tray and lid 290-300-310

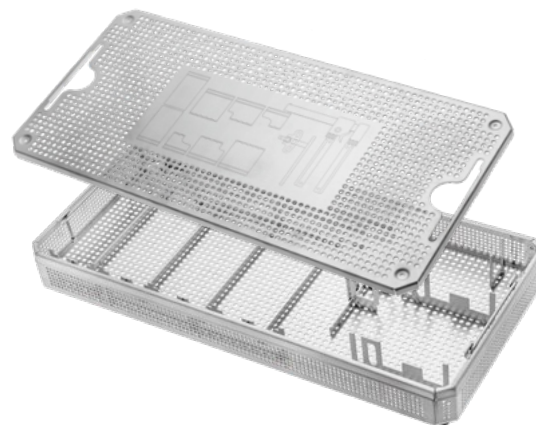
Optional, not included in the set

Set consists of

Type	Width	Length	Quantity	
O Standard Retractor			1	290-300-301
Retractor 5 teeth	76mm	64mm	2	290-300-302
Retractor left	31mm	38mm	1	290-300-303
Retractor right	31mm	38mm	1	290-300-304
Retractor left	57mm	44mm	1	290-300-305
Retractor right	57mm	44mm	1	290-300-306

Optional Retractors, right/left angled (standard), for

Width	Length	Quantity	
19mm	31mm	2	290-300-205
19mm	44mm	2	290-300-206
19mm	57mm	2	290-300-207
19mm	83mm	2	290-300-209
19mm	76mm	2	290-300-208
19mm	102mm	2	290-300-210
51mm	102mm	2	290-300-216 (not offset)



Tray with lid (fits for standard and lightweight)

290-300-350

LT - SET FOR LUMBAR RETRACTION



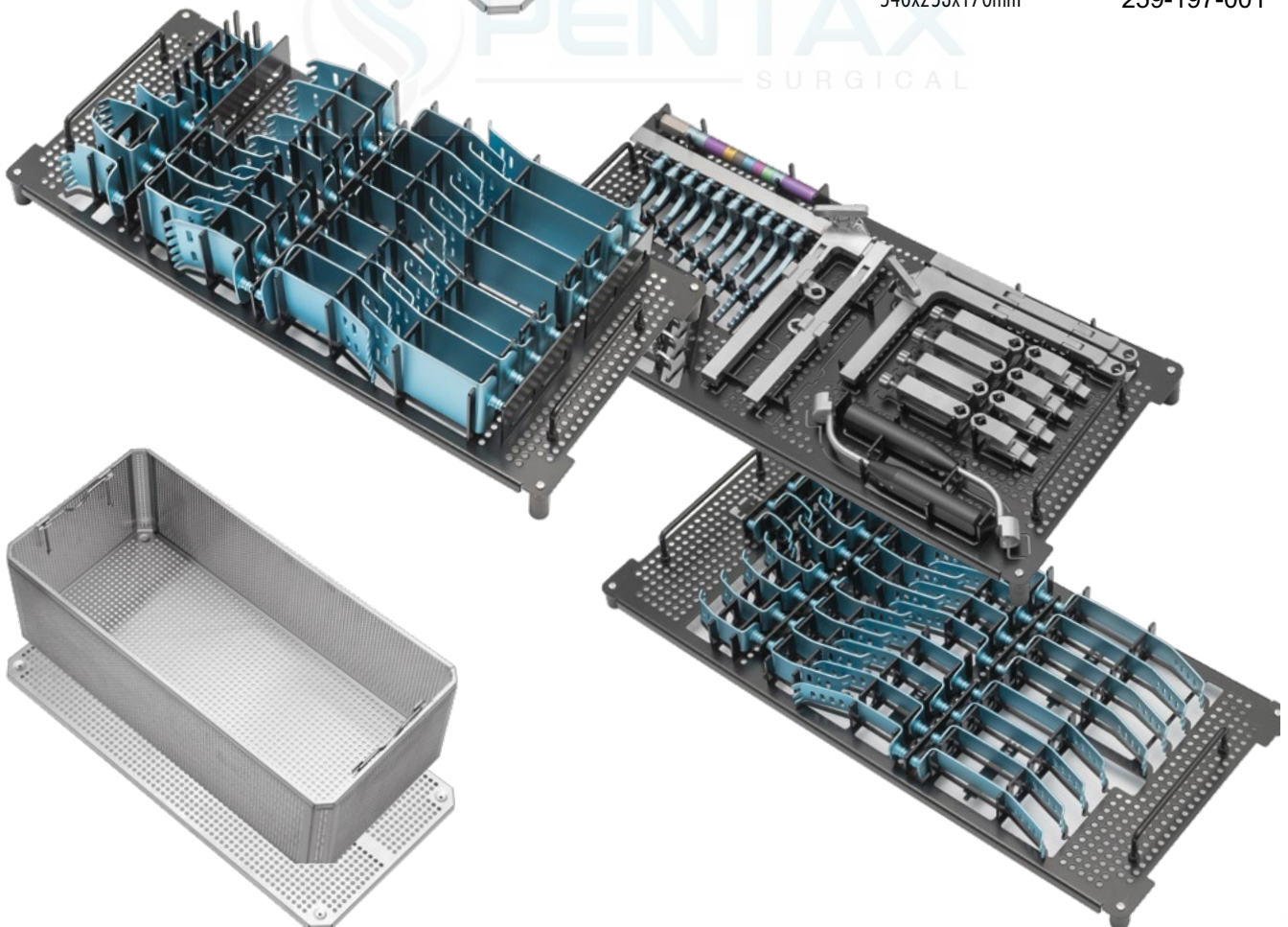
LT Lumbar Retraction Set, complete with tray

259-197-000

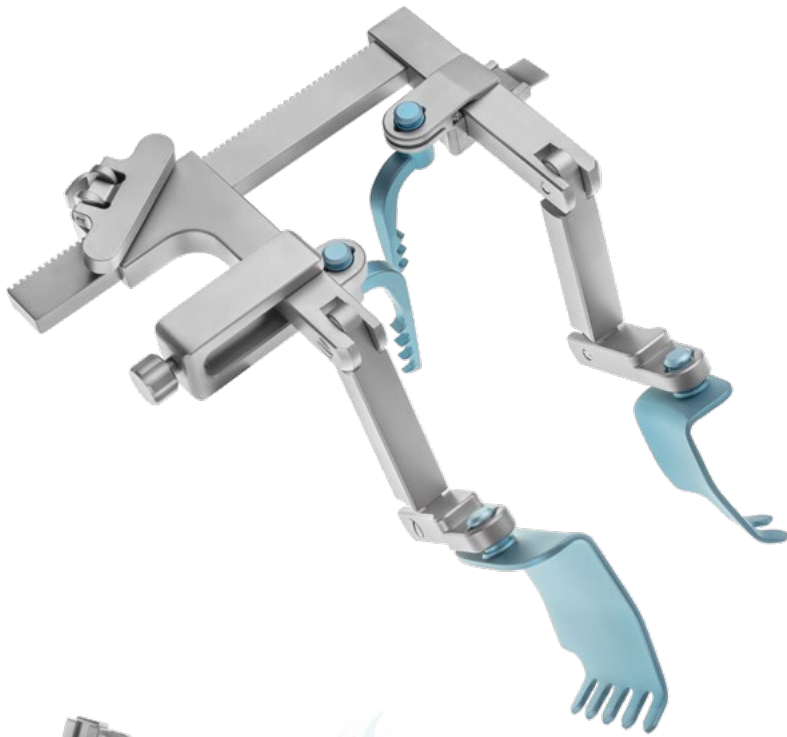
Tray only

540x253x170mm

259-197-001



LT - SET FOR LUMBAR RETRACTION



LT Retractor, hinged

209mm spread

259-197-002

LT Retractor, double hinged

102mm spread

259-197-003

209mm spread

259-197-004

LT - SET FOR LUMBAR RETRACTION



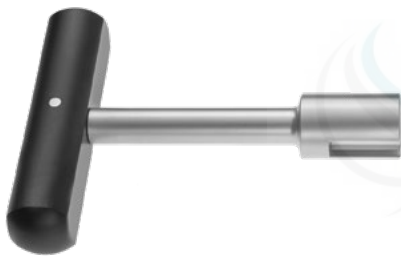
Blade connector with quick coupling

259-197-005



Blade connector with screw connection

259-197-006



T-Handle

259-197-007



Handle, manual blade retraction

259-197-009



Depth Gauge

259-197-008

LT - SET FOR LUMBAR RETRACTION



LT Valve, 6 prongs, 60mm wide

50mm depth	259-197-650
60mm depth	259-197-660
70mm depth	259-197-670
80mm depth	259-197-680
90mm depth	259-197-690
110mm depth	259-197-691
130mm depth	259-197-693



LT Hook, toothed

34mm depth, 3 teeth	259-197-103
44mm depth, 4 teeth	259-197-104
54mm depth, 5 teeth	259-197-105
64mm depth, 6 teeth	259-197-106
84mm depth, 7 teeth	259-197-107



LT Valve, left, 2 prongs

30mm width, 40mm depth	259-197-111
60mm width, 45mm depth	259-197-112



right, 5 prongs

30mm width, 40mm depth	259-197-113
60mm width, 45mm depth	259-197-114

LT - SET FOR LUMBAR RETRACTION



LT Valve, 3 prongs, 24mm wide

30mm depth	259-197-330
40mm depth	259-197-340
50mm depth	259-197-350
60mm depth	259-197-360
70mm depth	259-197-370
80mm depth	259-197-380
90mm depth	259-197-390
110mm depth	259-197-410
130mm depth	259-197-430



LT Valve, 5 prongs, 45mm wide

50mm depth	259-197-550
60mm depth	259-197-560
70mm depth	259-197-570
80mm depth	259-197-580
90mm depth	259-197-590
110mm depth	259-197-591
130mm depth	259-197-593



LT T-Valve, 25mm wide

40mm depth	259-197-254
50mm depth	259-197-255
60mm depth	259-197-256
70mm depth	259-197-257

CASPAR MICRO DISCECTOMY RETRACTOR



CASPAR

Counter Retractor, hinged arms

259-185-100

CASPAR

Specula

40mm	259-185-040
45mm	259-185-045
50mm	259-185-050
55mm	259-185-055
60mm	259-185-060
65mm	259-185-065
75mm	259-185-070
80mm	259-185-080
85mm	259-185-085

CASPAR MICRO DISCECTOMY RETRACTOR



Lateral blade with snap lock

35mm	259-185-235
40mm	259-185-240
45mm	259-185-245
50mm	259-185-250
55mm	259-185-255
60mm	259-185-260
65mm	259-185-265
75mm	259-185-275
80mm	259-185-280
85mm	259-185-285



Medial blade

40mm	259-185-340
45mm	259-185-345
50mm	259-185-350
55mm	259-185-355
60mm	259-185-360
65mm	259-185-365
70mm	259-185-370



Blade Ejector Forceps

115mm, 4 ¹ / ₂ "	259-185-101
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MCCULLOCH MICRO DISCECTOMY RETRACTOR



MCCULLOCH

Retractor Frame, with hinged arms

85mm, 3"	259-170-200
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with rigid arms	
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85mm, 3"	259-170-100
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MCCULLOCH MICRO DISCECTOMY RETRACTOR



MCCULLOCH

Muscle blade, 27mm wide, 6 teeth

30mm, 1 ^{1/5} "	259-170-130
40mm, 1 ^{2/3} "	259-170-140
50mm, 2"	259-170-150
60mm, 2 ^{1/3} "	259-170-160
70mm, 2 ^{4/5} "	259-170-170
80mm, 3 ^{1/5} "	259-170-180
90mm, 3 ^{1/2} "	259-170-190

Blade Set, large

Set with 12 pcs. (2 blades each) 259-170-130 to 259-170-180	259-170-110
--	-------------

Blade Set, small

Set with 8 pcs. (2 blades each) 259-170-140 to 259-170-170	259-170-111
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MCCULLOCH

Muscle blade, 20mm wide, 4 teeth

30mm, 1 ^{1/5} "	259-170-230
40mm, 1 ^{2/3} "	259-170-240
50mm, 2"	259-170-250
60mm, 2 ^{1/3} "	259-170-260
70mm, 2 ^{4/5} "	259-170-270
80mm, 3 ^{1/5} "	259-170-280

Blade Set, large

Set with 12 pcs. (2 blades each) 259-170-230 to 259-170-280	259-170-210
--	-------------

Blade Set, small

Set with 8 pcs. (2 blades each) 259-170-240 to 259-170-270	259-170-211
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MCCULLOCH

Muscle blade, 17mm wide, 2 teeth

30mm, 1 ^{1/5} "	259-170-330
40mm, 1 ^{2/3} "	259-170-340
50mm, 2"	259-170-350
60mm, 2 ^{1/3} "	259-170-360
70mm, 2 ^{4/5} "	259-170-370
80mm, 3 ^{1/5} "	259-170-380
90mm, 3 ^{1/2} "	259-170-390

Blade Set, large

Set with 12 pcs. (2 blades each) 259-170-330 to 259-170-380	259-170-310
--	-------------

Blade Set, small

Set with 8 pcs. (2 blades each) 259-170-340 to 259-170-370	259-170-311
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MCCULLOCH MICRO DISCECTOMY RETRACTOR



MCCULLOCH

Cervical blade, 20mm wide, 2 teeth

50mm, 2"	259-170-650
60mm, 2 ¹ / ₃ "	259-170-660
70mm, 2 ⁴ / ₅ "	259-170-670



MCCULLOCH

Hook #1

20mm, 4/5"	259-170-420
30mm, 1 ¹ / ₅ "	259-170-430
40mm, 1 ² / ₃ "	259-170-440
50mm, 2"	259-170-450
60mm, 2 ¹ / ₃ "	259-170-460
70mm, 2 ⁴ / ₅ "	259-170-470
80mm, 3 ¹ / ₅ "	259-170-480

Blade Set, large

Set with 12 pcs. (2 blades each) 259-170-420 to 259-170-470	259-170-410
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Blade Set, small

Set with 8 pcs. (2 blades each) 259-170-430 to 259-170-460	259-170-411
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MCCULLOCH

Hook #2

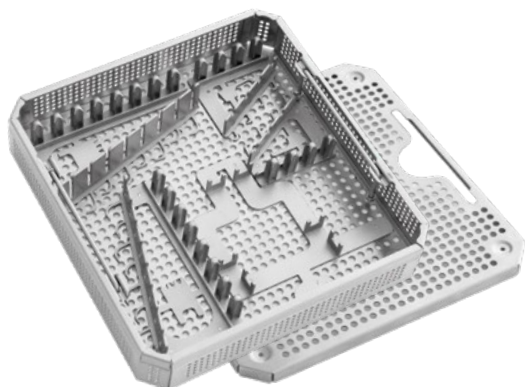
20mm, 4/5"	259-170-520
30mm, 1 ¹ / ₅ "	259-170-530
40mm, 1 ² / ₃ "	259-170-540
50mm, 2"	259-170-550
60mm, 2 ¹ / ₃ "	259-170-560
70mm, 2 ⁴ / ₅ "	259-170-570
80mm, 3 ¹ / ₅ "	259-170-580

Blade Set, large

Set with 12 pcs. (2 blades each) 259-170-520 to 259-170-570	259-170-510
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Blade Set, small

Set with 8 pcs. (2 blades each) 259-170-530 to 259-170-560	259-170-511
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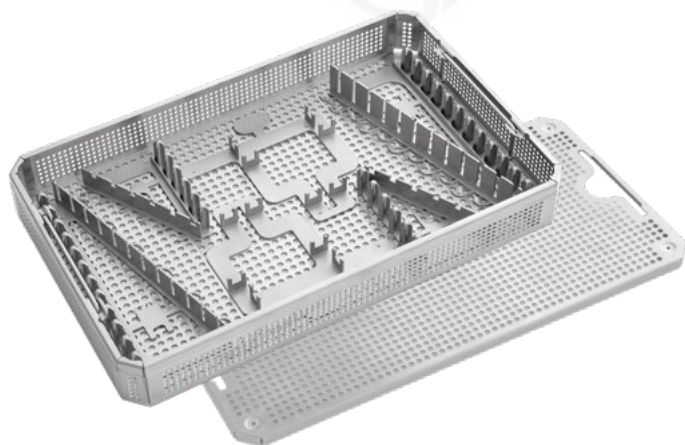
**MCCULLOCH**

Tray, small, with lid

253 x 253 x 50mm 259-170-000

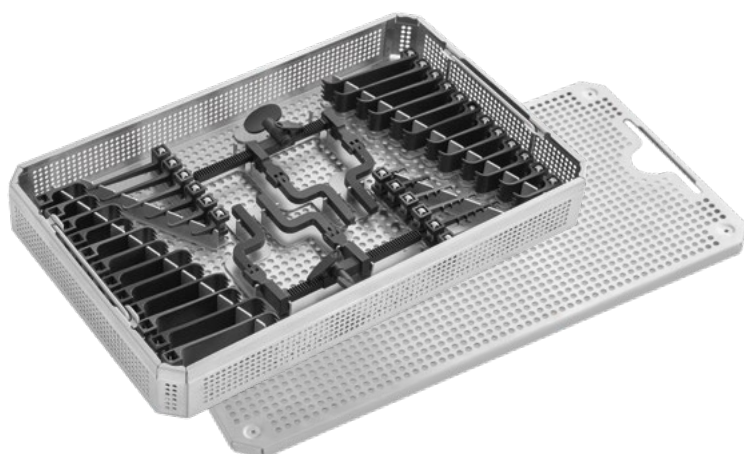
**MCCULLOCH**Set with Tray, small 259-170-000
and hinged retractors,
blades 2 each, 1 hook each

259-170-001

**MCCULLOCH**

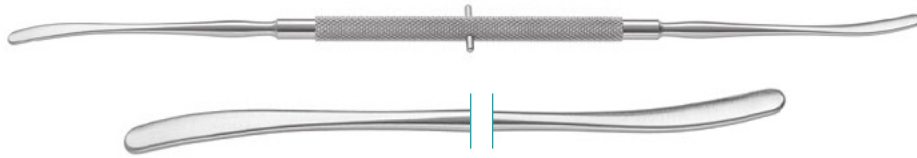
Tray, large, with lid

405 x 253 x 50mm 259-170-002

**MCCULLOCH**Set with Tray, large 259-170-002
and hinged retractors,
blades 2 each, 1 hook each

259-170-003

MCCULLOCH MICRO DISCECTOMY RETRACTOR



Double Ended Elevator

230mm, 9"

259-160-042



Osteotome, 215mm, 8¹/₂"

4mm wide

259-210-004

6mm wide

259-210-006



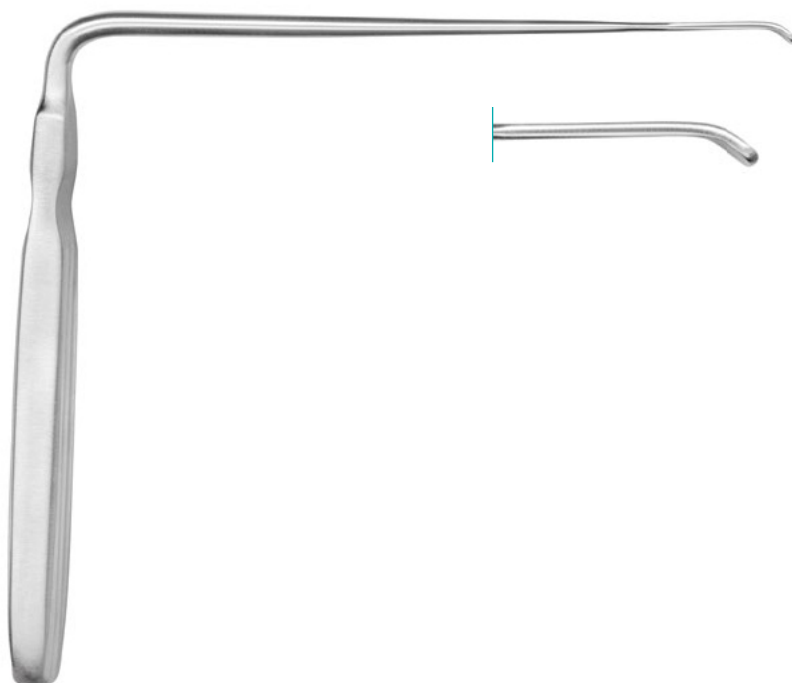
Hockey-Stick Chisel, 215mm, 8¹/₂"

left curved

259-210-005

right curved

259-211-005



Nerve Root Retractor, 90° angled shaft

6mm wide tip

259-160-006

MCCULLOCH MICRO DISCECTOMY RETRACTOR

Ball Probe, 235mm, 9¹/₄"

4mm tip	259-230-004
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7mm tip	259-230-007
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Manipulation Hook, 235mm, 9¹/₄"

4mm tip	259-230-104
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Spinal Elevator, semi-sharp, 290mm, 11¹/₂"

12mm wide tip	259-440-100
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19mm wide tip	259-450-100
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CASPAR WOUND RETRACTOR



CASPAR

Retractor with key

259-185-449



CASPAR

Hook

38mm 259-185-435

58mm 259-185-437



CASPAR

Blade, 2 prongs

32x22mm 259-185-442

52x22mm 259-185-445

62x22mm 259-185-447



CASPAR

Blade, 3 prongs

37x37mm 259-185-452

62x37mm 259-185-457



CASPAR

Blade, 4 prongs

37x52mm 259-185-462

67x52mm 259-185-467



HUDSON

Hand Drill, complete with 4 burrs and extension
(Hudson tightening screw)

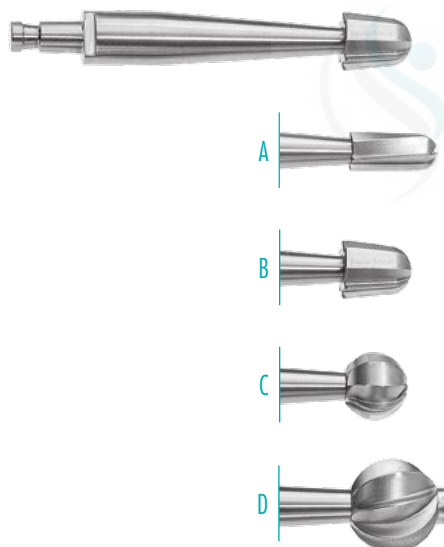
270mm, 10^{2/3}" 200-152-000

Hand Drill only with clamping screw

200-150-000

Hand Drill only with Hudson snap lock

200-151-000



Burrs, 60mm length

A Ø 9mm 200-152-001

B Ø 14mm 200-152-002

C Ø 16mm 200-152-003

D Ø 22mm 200-152-004

Extension piece

200-152-009



RANEY

Scalp Haemostasis Clip, 10 pcs. per package

250-066-001

black

250-066-002



RANEY

Applying and Removing Forceps
for 250-066-001

160mm, 6¹/₄"

250-066-003


YASARGIL

Suction Cannula, Ø 1.5mm

130mm, 5 ¹ / ₈ "	250-064-152
150mm, 6"	250-064-154
180mm, 7"	250-064-156
220mm, 8 ² / ₃ "	250-064-158

Ø 2.0mm

130mm, 5 ¹ / ₈ "	250-064-162
150mm, 6"	250-064-164
180mm, 7"	250-064-166
220mm, 8 ² / ₃ "	250-064-168

Ø 2.5mm

130mm, 5 ¹ / ₈ "	250-064-172
150mm, 6"	250-064-174
180mm, 7"	250-064-176
220mm, 8 ² / ₃ "	250-064-178

Ø 3.5mm

130mm, 5 ¹ / ₈ "	250-064-182
150mm, 6"	250-064-184
180mm, 7"	250-064-186
220mm, 8 ² / ₃ "	250-064-188

Ø 4.5mm

180mm, 7"	250-064-189
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FUKUSHIMA

Suction tube, conical, malleable, 165mm, 6^{1/2}"

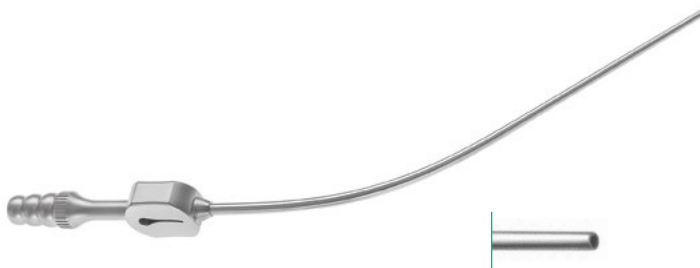
3 Charr.	165-533-163
4 Charr.	165-533-164
5 Charr.	165-533-165
6 Charr.	165-533-166



FUKUSHIMA

Suction tube, conical, malleable, 180mm, 7"

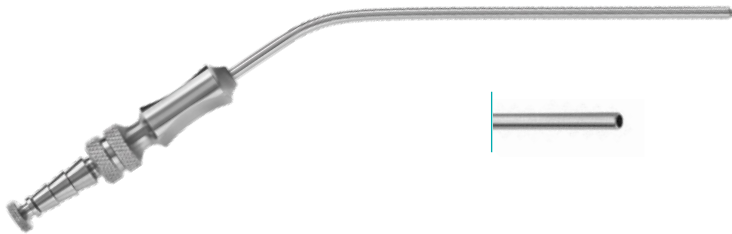
3 Charr.	165-533-183
4 Charr.	165-533-184
5 Charr.	165-533-185
6 Charr.	165-533-186
7 Charr.	165-533-187
8 Charr.	165-533-188
9 Charr.	165-533-189



FUKUSHIMA

Suction tube, conical, malleable, 205mm, 8^{1/8}"

3 Charr.	165-533-203
4 Charr.	165-533-204
5 Charr.	165-533-205
6 Charr.	165-533-206
7 Charr.	165-533-207
8 Charr.	165-533-208
9 Charr.	165-533-209
10 Charr.	165-533-210
12 Charr.	165-533-212



FRAZIER

Suction tube, 30° angled,
190mm, 7^{1/2}" overall length

5 Charr.	165-523-005
6 Charr.	165-523-006
7 Charr.	165-523-007
8 Charr.	165-523-008
9 Charr.	165-523-009
10 Charr.	165-523-010
11 Charr.	165-523-011
12 Charr.	165-523-012
15 Charr.	165-523-015



FRAZIER

Suction tube, straight,
130mm, 5^{1/8}" working length

6 Charr.	165-522-106
8 Charr.	165-522-108
10 Charr.	165-522-110
12 Charr.	165-522-112



BARON

Suction tube, finger cut-off, stylet, 100mm, 4"

3 Charr.	165-539-003
5 Charr.	165-539-005
7 Charr.	165-539-007



ADSON

Suction tube, Ø 4mm, 210mm, 8^{1/4}"

12 Charr.	165-521-004
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TAYLOR

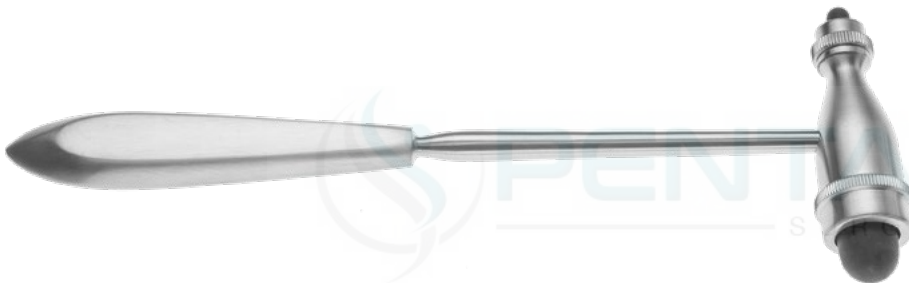
Percussion Mallet

170mm, 6²/₃"

100-111-170

200mm, 8"

100-111-200



TROEMNER

Percussion Mallet

240mm, 9¹/₂"

100-113-240



DERJERINE

Percussion Mallet with needle

200mm, 8"

100-115-200



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