



Jansen Curette

29-0632

6" (152mm)

Double Ended

Oval Cups



Martini Bone Curette

29-0620

5 ½" (140mm)

Double Ended

4mm and 5mm Round Cups



Williger Bone Curette

29-0630

5 ½" (140mm)

Double Ended

3mm and 4mm Oval Cups



Volkman Curette

Oval and Round Cups

46-0560 5" Double Ended

46-0562 6 ½" Double Ended

46-0561 8" Double Ended



Volkmann Curette

Oval Cups, Double Ended

49-0200	5" (127mm)
49-0202	5 ½" (140mm)
46-0550	6 ½" (165mm)
49-0204	8" (203mm)



Ray Pituitary Curettes

7 ½"

Vertical Angle 45°

49-0403	3mm diameter
49-0404	4mm diameter
49-0405	5mm diameter

45°



3mm



4mm



5mm



Vertical Angle 90°

49-0413	3mm diameter
49-0414	4mm diameter
49-0415	5mm diameter

90°



3mm



4mm



5mm



Horizontal Angle 45°

49-0423	3mm diameter
49-0424	4mm diameter
49-0425	5mm diameter

45°



3mm



4mm



5mm



Horizontal Angle 90°

49-0433	3mm diameter
49-0434	4mm diameter
49-0435	5mm diameter

90°



3mm



4mm



5mm



Epstein Curette

Hollow Handle

49-0580	8" (203mm)	#000
49-0582	8" (203mm)	#00
49-0584	8" (203mm)	#0

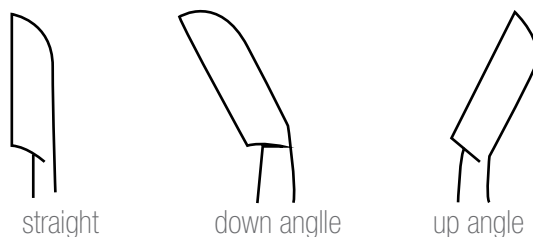


Scoville Curette

Hollow Handle

10" (254mm)

49-0574	Straight
49-0576	Down Angle
49-0578	Up Angle



Brun (Spratt) Curette

Hollow Handle, Round Cup

6 3/4" (172mm) Straight 6 3/4" (172mm) Angled 45°

49-0120	#3/0	49-0120A	#3/0
49-0121	#2/0	49-0121A	#2/0
49-0122	#0	49-0122A	#0
49-0123	#1	49-0123A	#1
49-0124	#2	49-0124A	#2
49-0125	#3	49-0125A	#3
49-0126	#4	49-0126A	#4



Brun (Spratt) Curette

Hollow Handle, Oval Cup

7" (178mm) Straight		7" (178mm) Angled 45°		9" (229mm) Straight		9" (229mm) Angled 45°	
46-0511	#5/0	46-0511A	#5/0	46-0563	#3/0	49-0009	#4/0
46-0512	#4/0	46-0512A	#4/0	46-0564	#2/0	49-0110	#3/0
46-0513	#3/0	46-0513A	#3/0	46-0565	#0	49-0111	#2/0
46-0515	#2/0	46-0515A	#2/0	46-0566	#1	49-0112	#0
46-0517	#0	46-0517A	#0	46-0567	#2	49-0113	#1
46-0519	#1	46-0519A	#1	46-0568	#3	49-0114	#2
46-0521	#2	46-0521A	#2	46-0569	#4	49-0115	#3
46-0523	#3	46-0523A	#3	46-0570	#5	49-0116	#4
46-0525	#4	46-0525A	#4	46-0571	#6	49-0117	#5
46-0529	#5	46-0529A	#5			49-0118	#6
46-0531	#6	46-0531A	#6				



Brun Curette

9" (229mm) Solid Hexagonal Handle

Straight		Angled 45°	
46-0551	#3/0	49-0150	#3/0
46-0552	#2/0	49-0151	#2/0
46-0553	#0	49-0152	#0
46-0554	#1	49-0153	#1
46-0555	#2	49-0154	#2
46-0556	#3	49-0155	#3
46-0557	#4	49-0156	#4
46-0558	#5	49-0157	#5
46-0559	#6	49-0158	#6



Cobb Curette

11" (280mm) with knurled handle

Anodized aluminum handle, stainless steel working end.

All stainless

Straight

46-0422	#3/0
46-0423	#2/0
46-0424	#0
46-0425	#1
46-0426	#2
46-0427	#3
46-0428	#4
46-0429	#5
46-0430	#6

Angled

46-0433	#3/0
46-0434	#2/0
46-0435	#0
46-0436	#1
46-0437	#2
46-0438	#3
46-0439	#4
46-0440	#5
46-0441	#6

Straight

46-0422S	#3/0
46-0423S	#2/0
46-0424S	#0
46-0425S	#1
46-0426S	#2
46-0427S	#3
46-0428S	#4
46-0429S	#5
46-0430S	#6

Angled

46-0433S	#3/0
46-0434S	#2/0
46-0435S	#0
46-0436S	#1
46-0437S	#2
46-0438S	#3
46-0439S	#4
46-0440S	#5
46-0441S	#6



Ring Curette

Hollow handle with fenestrated cup

55-0680	10"(250mm) #0
55-0681	10"(250mm) #2
55-0682	10 1/4" (260mm) #6
55-0684	11 1/2" (292mm) #0
55-0685	11 1/2" (292mm) #2
55-0686	12" (305mm) #6



Fox Curette

5 ½" (140mm) round

29-0495	1mm
29-0496	2mm
29-0497	3mm
29-0498	4mm
29-0499	5mm
29-0500	6mm



Piffard Curette

5 ½" (140mm)

29-0503 small
29-0505 medium
29-0507 large



29-0503



29-0505



29-0507



Cone Ring Curette

9" (229mm) knurled handle with fenestrated cup.

Straight

49-0450 size #1, 8mm diameter
49-0452 size #2, 6mm diameter
49-0454 size #3, 3mm diameter

Angled 35°

49-0456 size #1, 8mm diameter
49-0458 size #2, 6mm diameter
49-0460 size #3, 3mm diameter



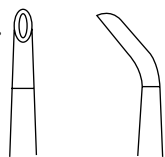
Angled 35°



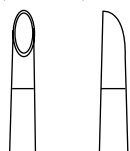
Endoscopic Bone Curettes

Endoscopic Brun Curette

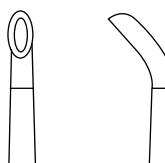
graduated with phenolic handle.



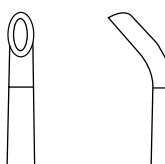
55-0532 17"(432mm) 40° angle
2mm x 4mm cup
2.7" tip length
9.3" shaft length
5" handle length
.285" (7.2mm) shaft diameter



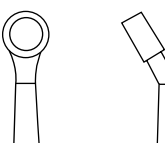
55-0523 17"(432mm) straight
3mm x 6mm cup
2.7" tip length
9.3" shaft length
5" handle length
.285" (7.2mm) shaft diameter



55-0533 17"(432mm) 40° angle
3mm x 6mm cup
2.7" tip length
9.3" shaft length
5" handle length
.285" (7.2mm) shaft diameter



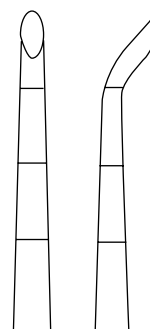
55-0543 20"(508mm) 40° angle
3mm x 6mm cup
3.5" tip length
10" shaft length
6.5" handle length
.45" (11.5mm) shaft diameter



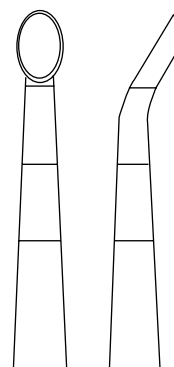
55-0556 20"(508mm) 30° angle
6mm x 9mm cup
3.5" tip length
10" shaft length
6.5" handle length
.45" (11.5mm) shaft diameter

Endoscopic Epstein Curette

graduated with phenolic handle.



55-0593 17"(432mm)
reverse 40° angle
3mm x 6mm cup
2.7" tip length
9.3" shaft length
5" handle length
.285" (7.2mm) shaft diameter

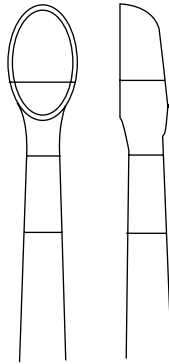


55-0586 20"(508mm)
reverse 30° angle
6mm x 9mm cup
3.5" tip length
10" shaft length
6.5" handle length
.45" (11.5mm) shaft diameter

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

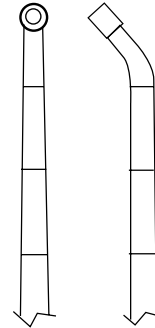
Endoscopic Bone Curettes

Endoscopic Scoville Curette with phenolic handle.

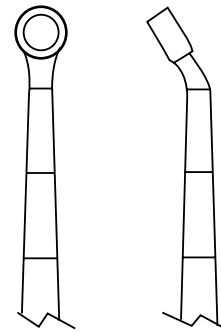


55-0510 20" (508mm)
Straight
9mm X 15mm cup
3.5" tip length
10" shaft length
6.5" handle length
.45" (11.5mm) shaft diameter

Endoscopic Cone Ring Curette with phenolic handle.



55-0573 17" (432mm)
40° angle
3mm cup diameter
2.7" tip length
9.3" shaft length
5" handle length
.285" (7.2mm) shaft diameter

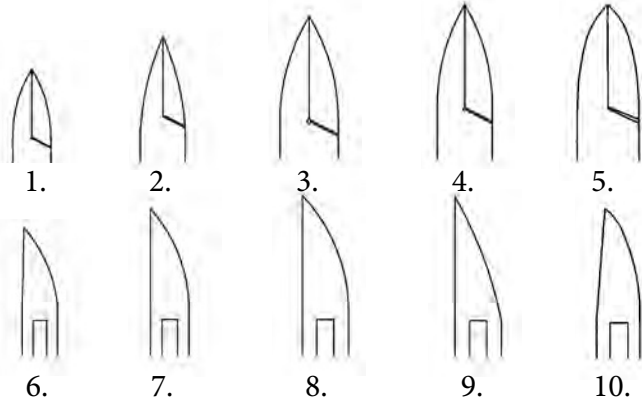


55-0566 20" (508mm)
30° angle
6mm cup diameter
3.5" tip length
10" shaft length
6.5" handle length
.45" (11.5mm) shaft diameter

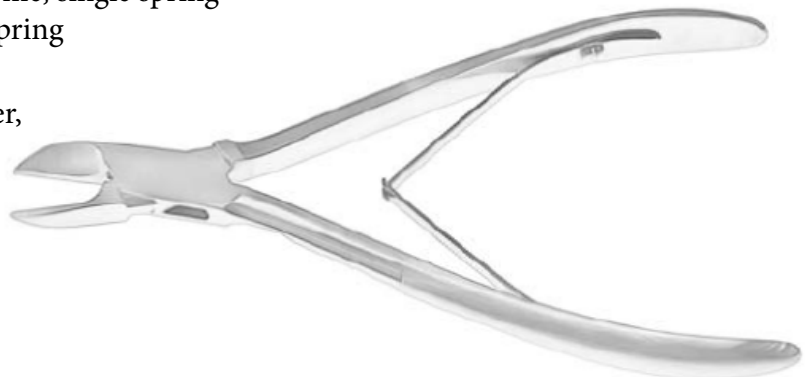
Littauer Bone Forceps

for small bones

- | | |
|-------------|--|
| 1. 69-0320 | 4" (102mm) stainless |
| 2. 69-0322 | 4 ½" (114mm) stainless |
| 3. 69-0326 | 5" (127mm) heavy jaw, stainless |
| 4. 69-0327 | 5" (127mm) narrow jaw, stainless |
| 5. 69-0340 | 6" (152mm) stainless |
| 6. 69-0316 | 4" (102mm) chrome, single spring |
| 7. 69-0321 | 4 ½" (114mm) chrome, single spring |
| 8. 69-0323 | 5" (127mm) heavy jaw, chrome, single spring |
| 9. 69-0324 | 5" (127mm) narrow jaw, chrome, single spring |
| 10. 69-0328 | 6" (152mm) chrome, single spring |



Note: replacement springs are available. To order, refer to the corresponding part number.



Liston Bone Forceps

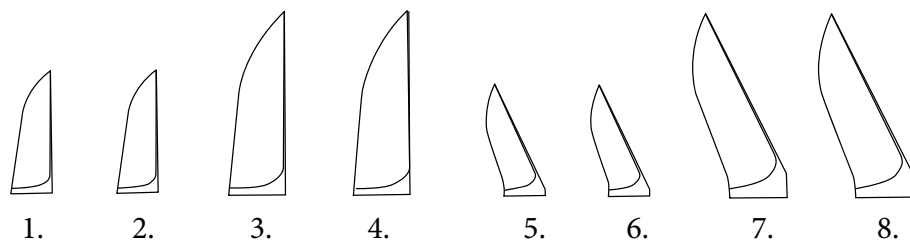
for small bones

Straight

- | | |
|------------|--------------|
| 1. 47-0398 | 5 ½" (140mm) |
| 2. 47-0400 | 6 ¾" (171mm) |
| 3. 47-0402 | 7 ½" (191mm) |
| 4. 47-0406 | 8 ½" (216mm) |

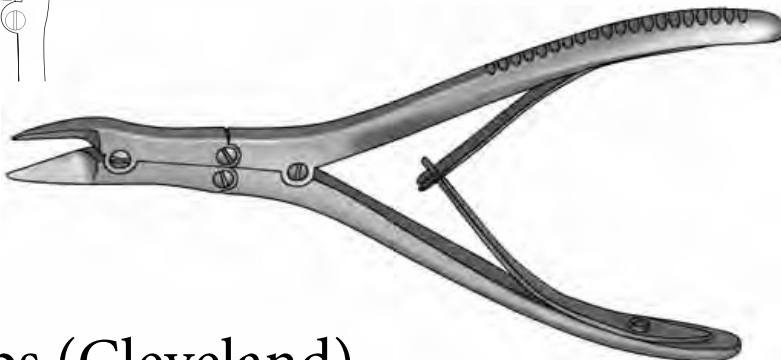
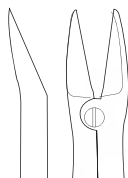
Angled on flat

- | | |
|------------|--------------|
| 5. 47-0410 | 5 ½" (140mm) |
| 6. 47-0404 | 6 ¾" (171mm) |
| 7. 47-0412 | 7 ½" (191mm) |
| 8. 47-0408 | 8 ½" (216mm) |



McIndoe Forceps

47-0546
7" (178mm)
angled
very delicate blades



Bone Cutting Forceps (Cleveland)

for small bones

47-0270 5 3/4" (146mm)

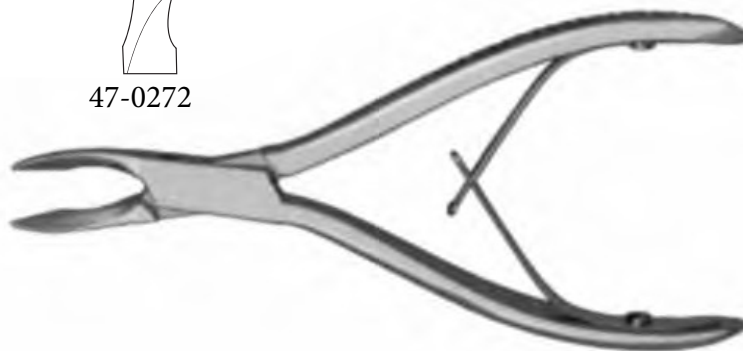
47-0272 6 1/2" (165mm)



47-0270

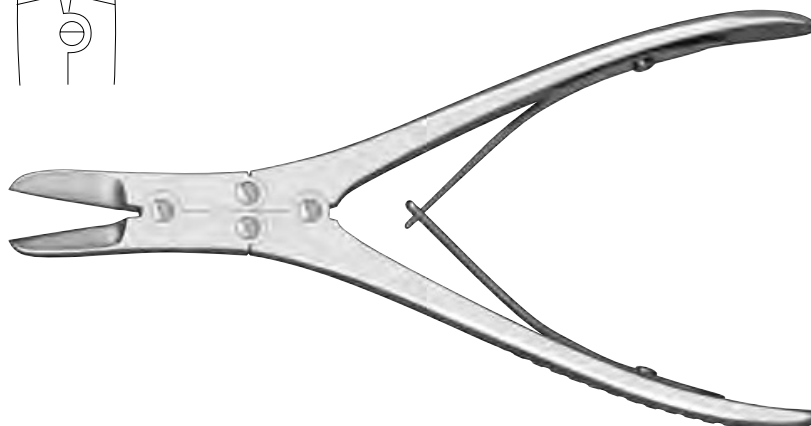
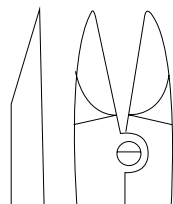


47-0272



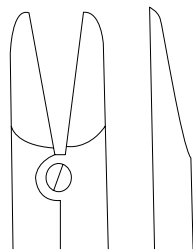
Ruskin-Liston Forceps

47-0550
6" (152mm)
straight

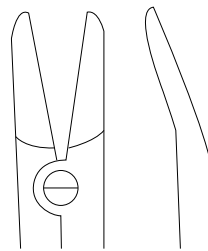


Ruskin-Liston Forceps

47-0540
7 ½" (191mm)
straight delicate blades

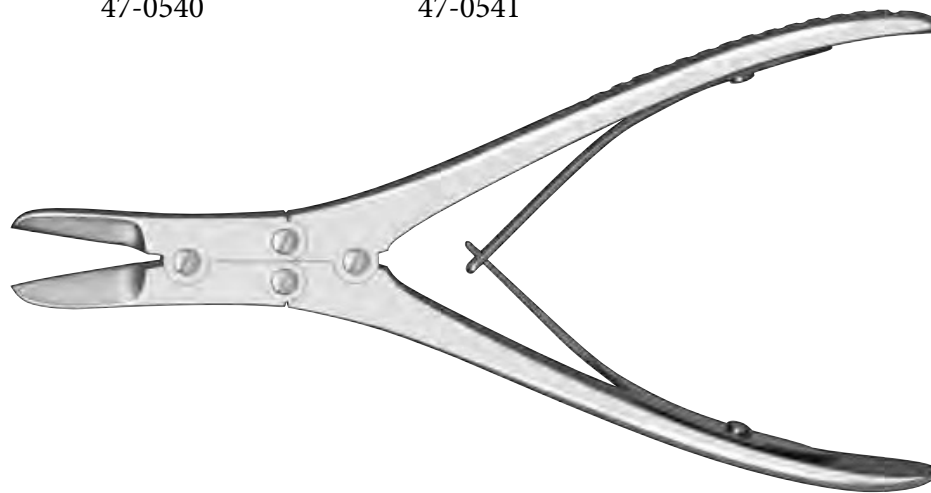


47-0540



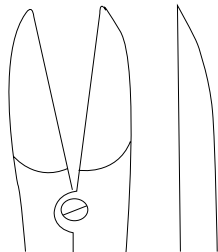
47-0541

47-0541
7" (178mm)
angled on flat delicate blades

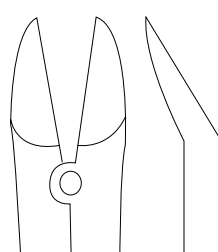


Ruskin-Liston Forceps

47-0538
7 ½" (191mm)
straight



47-0538



47-0542

47-0542
7 ¼" (184mm)
angled on flat



Stille-Liston Forceps

47-0366
10 ½" (267mm)
straight



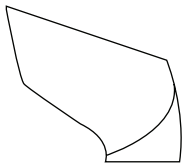
Stille-Liston Forceps

47-0370
10 ½" (267mm)
angled on flat



Stille-Horsley Forceps

47-0374
10 ½" (267mm)
angled

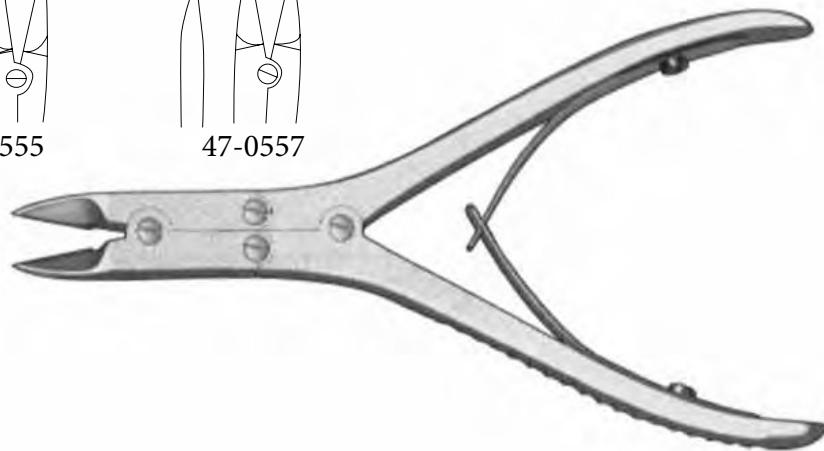
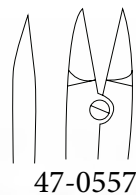
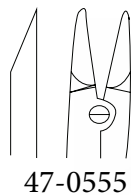


Kleinert-Kutz Forceps

6" (152mm) delicate blades

47-0555 6" Straight

47-0557 6" Curved



Joseph Bone Saw

7" (178mm)

58-0096 Straight

58-0097 Bayonet left

58-0098 Bayonet right



Langenbeck Metacarpal Saw

9" (229mm)

46-0601



Charriere Bone Saw

Stainless steel frame, chrome blades

46-0683 14" (355mm), complete

46-0684 12mm chrome blade only

46-0685 14mm chrome blade only



Charriere Bone Saw

Stainless steel frame, chrome blades

46-0645 10 1/2" (267mm), complete

46-0646 chrome blade only



Satterlee Bone Saw

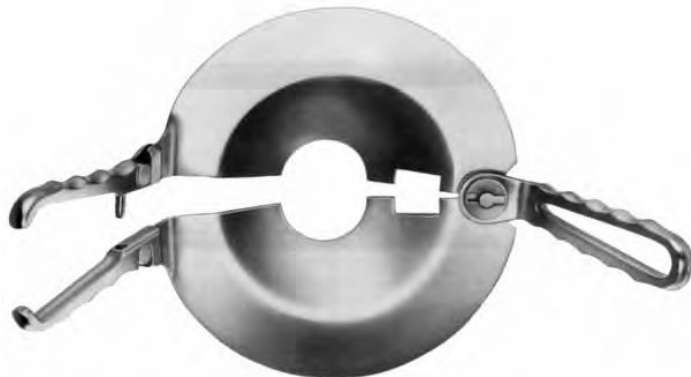
46-0643 11 1/2" (292mm), complete with ring handle

46-0644 blade only



Percy Amputation Shield

46-0602 12" (305mm)



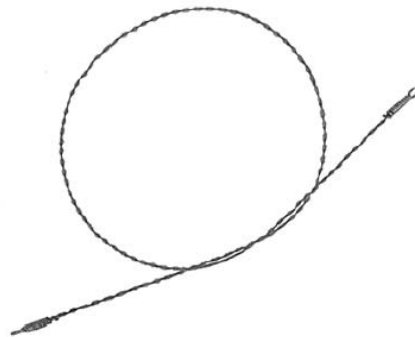
Liston Amputation Knife

46-0598 6 ¾" (172mm) blade
46-0600 8" (203mm) blade



Gigli Saw Blades

46-0612 9" (229mm)
46-0613 12" (305mm)
46-0614 20" (508mm)
46-0615 30" (762mm)



Gigli Saw Handle

3 ½" (89mm) wide
46-0616 loop style, one pair
46-0610 loop style with snap lock, one pair



For cutting hard bone in difficult areas or situations.

Gigli Saw Handle

46-0617
T-style
2 ½" (64mm) wide
one pair



Michele Trephine

7" (178mm)

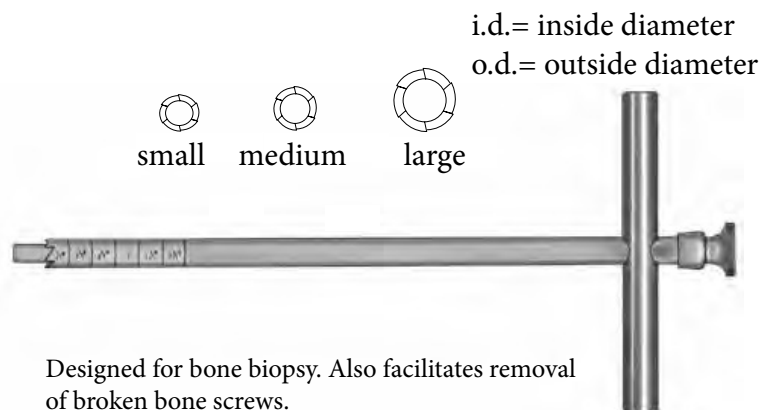
48-0239 small, 3mm i.d., 5mm o.d.

48-0240 medium, 4mm i.d., 6mm o.d.

48-0241 large, 6mm i.d., 8mm o.d.

i.d.= inside diameter

o.d.= outside diameter

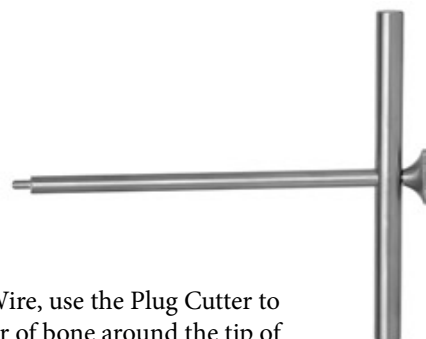


Plug Cutter

48-0252 4 1/2" with obturator, 3mm i.d., 5mm o.d.

48-0252P obturator only

i.d.= inside diameter
o.d.= outside diameter



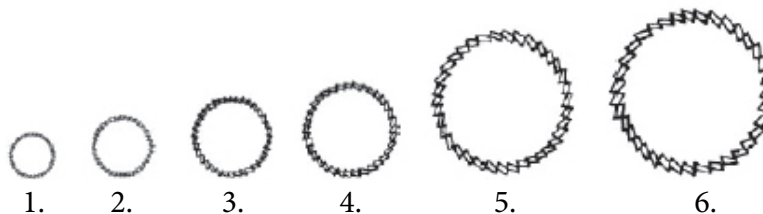
When removing K-Wire, use the Plug Cutter to extract a tiny cylinder of bone around the tip of the wire.

Plug Cutter

6" (152mm)

	I.D.	O.D.
1. 69-0830	5mm	7mm
2. 69-0832	7mm	9mm
3. 69-0834	10mm	12mm
4. 69-0836	12mm	14mm
5. 69-0838	20mm	22mm
6. 69-0840	22mm	24mm

i.d.= inside diameter
o.d.= outside diameter



Note:

- These cutters are especially useful for arthodesis of small and large joints by plug cutter graft technique.
- The plug cutters are designed to be used in pairs.
- The smaller diameter instrument will cut the plug opening and the larger one will harvest a bone graft that will fit into that opening.
- The plug can then be tapped into place using the Bone Impactor (MX 69-0980)



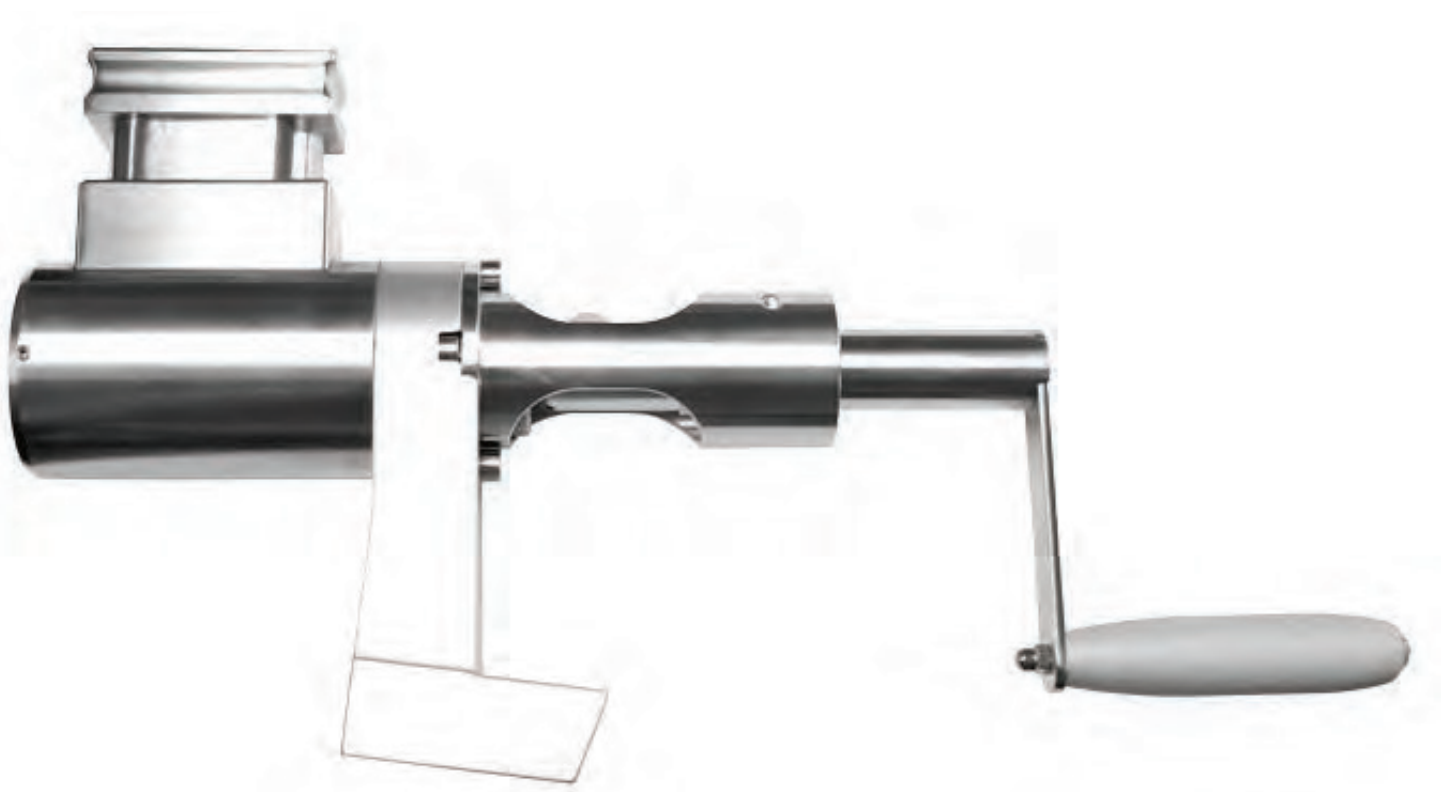
Bone Mill

Used to produce allograft material

90-8205 Complete unit including 2 cylinders and clamp

90-8205-01 Replacement cylinder - 3.2mm hole diameter/5 cutting rows

90-8205-02 Replacement cylinder - 4.2mm hole diameter/4 cutting rows



Grinds bones of various densities, producing bone graft of excellent quality for impaction. Two cutting cylinders are included for variable size bone graft.

Attaches securely with table clamp, is fully auto-clavable and easy to dismantle for cleaning.

Includes housing, two cutting cylinders, handle, push block, and table clamp.

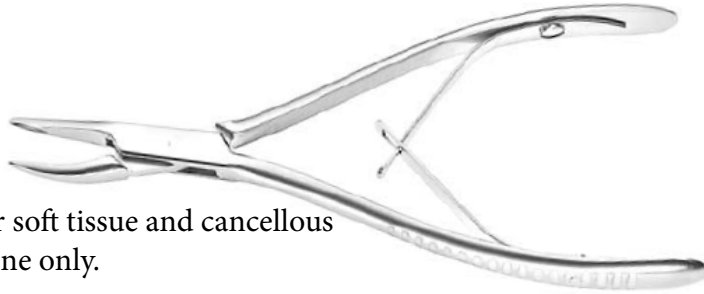
Micro Friedman Rongeur

Extremely delicate, 5 ½" (152mm)

47-0240 straight 1.5 x 5mm bite

47-0242 30° angled 1.5 x 5mm bite

47-0244 90° angled 1.5 x 5mm bite



for soft tissue and cancellous
bone only.

Synovectomy Rongeur

Extremely delicate

6 ¾" (172mm)

47-0252 slight curve, 2mm x 5mm bite

47-0253 strong curve, 2mm x 5mm bite



for soft tissue and cancellous
bone only.

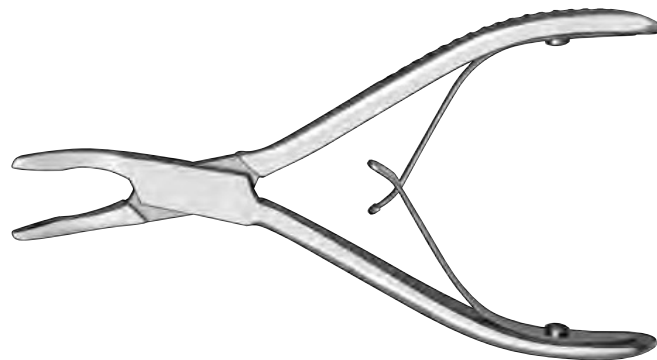
Friedman Rongeur

47-0262

Curved delicate

5 ½" (140mm)

4 x 11mm bite

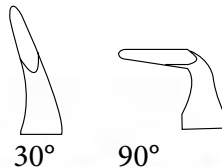


Dean Blumenthal Rongeur

6" (152mm)

47-0266 30° curved, 4 x 11mm bite

47-0268 90° curved, 4 x 11mm bite



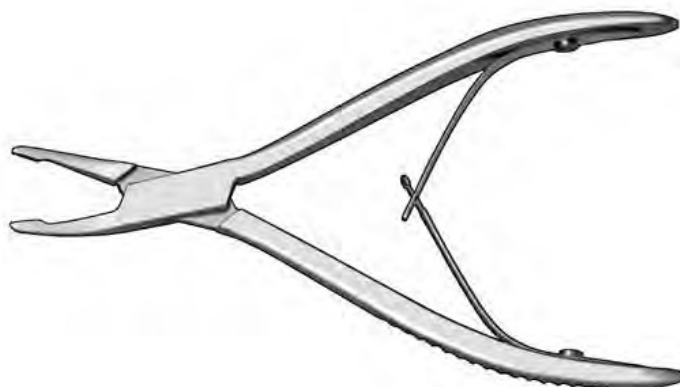
Chichirelli Rongeur (Blumenthal)

47-0267
6" (152mm)
45° curve
4 x 13mm bite



Mini Friedman Rongeur

6" (152mm)
delicate
2 x 8mm bite
47-0263 Straight
47-0264 Curved



Dean Rongeur

47-0286
5 3/4" (146mm)
curved
3 x 10mm bite



Rongeur #4

47-0274
5 1/2" (140mm)
curved
4 x 9mm bite



Rongeur #4A

47-0275
6 ½" (165mm)
curved
4 x 7mm bite



Lempert Rongeur

6" (152mm) delicate
3 x 7mm bite

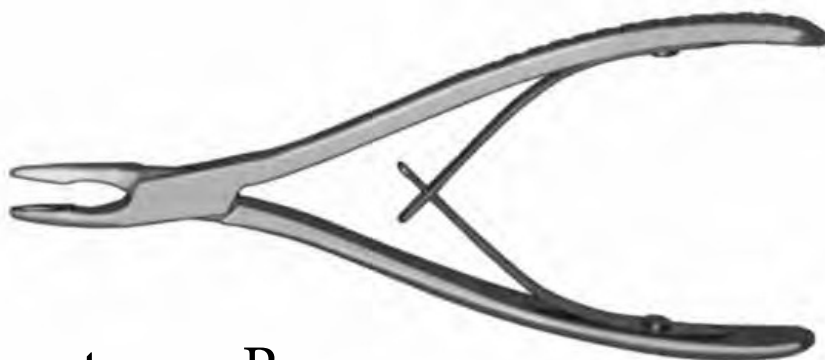
47-0258 Straight
47-0260 Curved



Lempert Rongeur

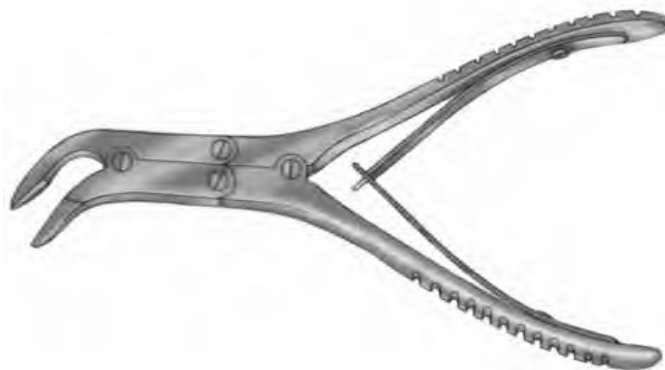
7 ½" (191mm) delicate
3 x 7mm bite

47-0254 Straight
47-0256 Curved



Kleinert-Kutz Synovectomy Rongeur

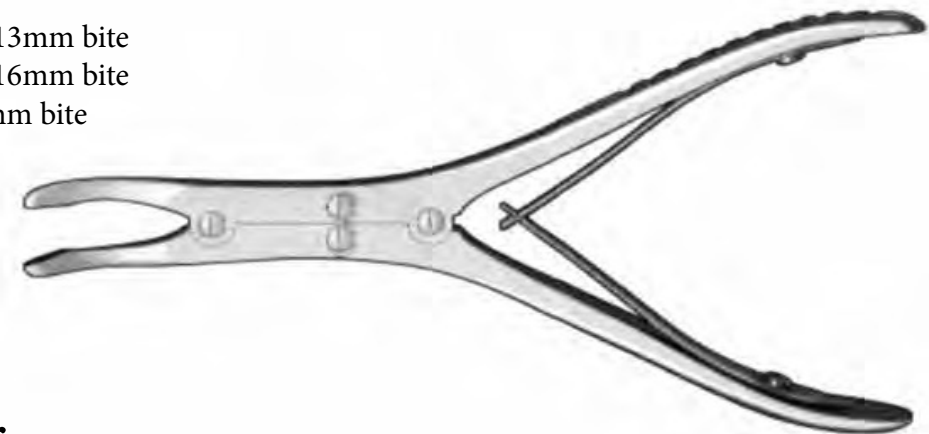
47-0553
6" (152mm) delicate
curved on side
2 x 10mm bite



Kleinert-Kutz Synovectomy Rongeur

6" (152mm) delicate

- 47-0560 slight curve, 2 x 13mm bite
- 47-0562 slight curve, 3 x 16mm bite
- 47-0558 full curve, 3 x 8mm bite



Ruskin Rongeur

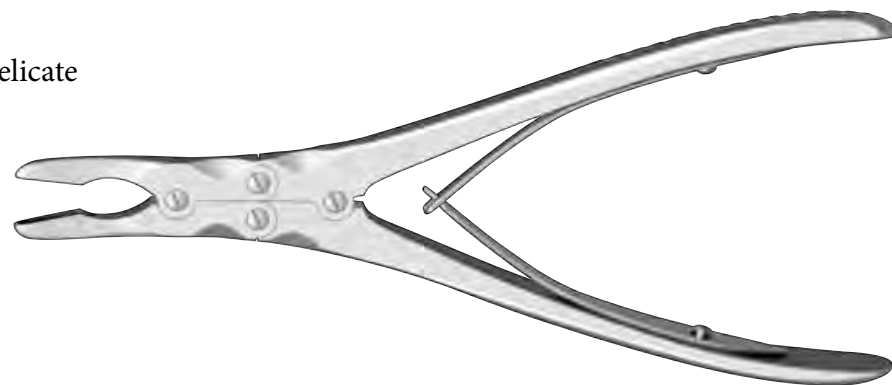
6" (152mm)

Straight

- 47-0523 2 x 14mm bite, delicate
- 47-0532 3 x 15mm bite

Curved

- 47-0533 2 x 15mm bite
- 47-0534 3 x 15mm bite



Ruskin Rongeur

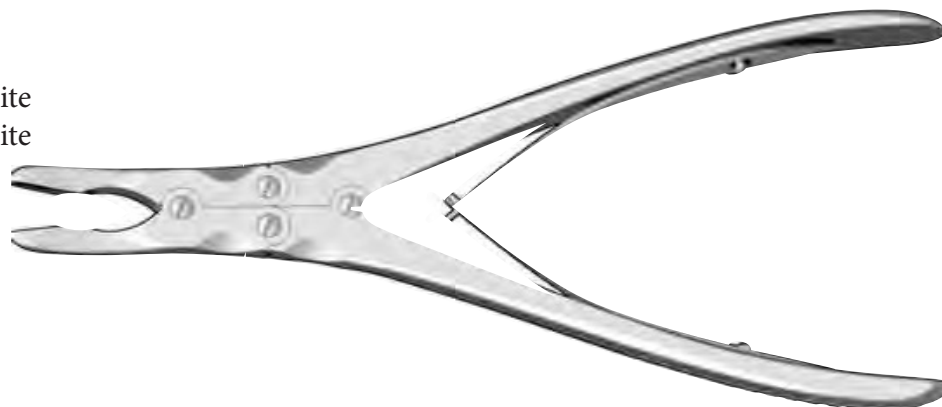
7 1/4" (184mm)

Straight

- 47-0526 4 x 15mm bite
- 47-0528 6 x 16mm bite

Curved

- 47-0527 4 x 16mm bite
- 47-0531 6 x 16mm bite



Ruskin Rongeur

47-0525
7 ¼" (184mm) curved
5 x 10mm bite



Zaufal-Jansen Rongeur

47-0524
7" (178mm) Curved
5 x 15mm bite



Beyer Rongeur

7" (178mm) Curved
47-0520 3 x 14mm bite
47-0522 4 x 15mm bite



Bane Rongeur

47-0310
7" (178mm)
Curved
3 x 16mm bite



Mead Rongeur

47-0276
6 ½" (165mm)
Curved
4 x 13mm bite



Hartmann Rongeur

47-0285
7 ¼" (184mm)
Curved
4 x 16mm bite



Bacon Rongeur

47-0308
8" (203mm) curved on side
5 x 15mm bite



Luer Rongeur

7" (178mm)
Straight
47-02788 x 12mm bite

Curved
47-02848 x 12mm bite



Adson Rongeur

8" (203mm)

Straight

47-0302

7 x 15mm bite

Curved

47-0306

7 x 15mm bite



Rat Tooth Rongeur

8" (203mm)

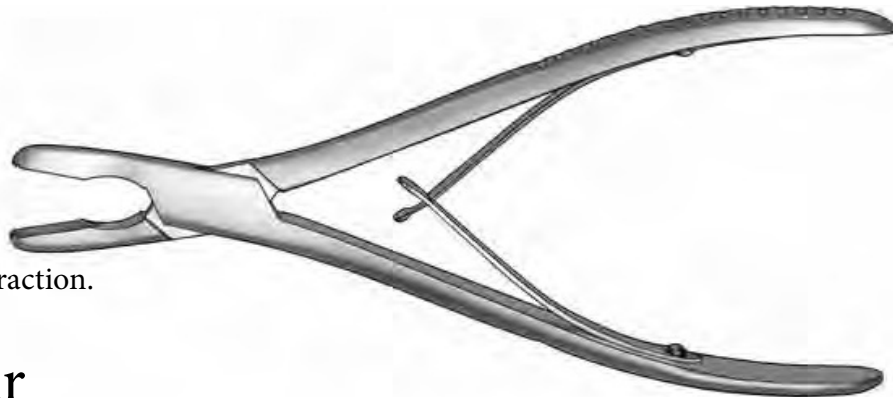
Straight

47-0304

8x15mm bite

with teeth

Teeth facilitate easier bone extraction.



Leksell Rongeur

9" (229mm) 15° curve

47-0492

3 x 16mm bite

47-0486

4 x 16mm bite

47-0487

5 x 16mm bite

47-0488

6 x 16mm bite

47-0489

7 x 16mm bite

47-0490

8 x 16mm bite



Leksell Rongeur

9" (229mm) 50° curve

47-0494

3 x 13mm bite

47-0495

4 x 13mm bite

47-0497

5 x 13mm bite

47-0498

6 x 13mm bite

47-0499

7 x 13mm bite

47-0496

8 x 16mm bite



Echlin Duckbill Rongeur

9" (229mm) straight, curved on side

47-0480 2 x 12mm bite

47-0482 3 x 12mm bite

47-0484 4 x 12mm bite



Stille-Luer Echlin Rongeur

9" (229mm) straight, curved on side

47-0473

6 x 15mm bite



Stille-Luer Duckbill Rongeur

9" (229mm)

47-0472

curved on side

6 x 13mm bite



Stille-Luer Rongeur

Curved on side

47-0461 8 ½", 10 x 16mm bite

Straight

47-0458 8 ½", 10 x 18mm bite

47-0462 10 ½", 10 x 18mm bite

Curved

47-0460 8 ½", 10 x 18mm bite

47-0464 10 ½", 10 x 18mm bite



Smith-Peterson Laminectomy Rongeur

9 ½" (241mm)

Straight

47-0474 3 x 16mm bite

Curved

47-0476 3 x 16mm bite

Fully Curved

47-0478 3 x 16mm bite



Dale Thoracic Rongeur

14 ½" (368mm)

47-0396

Slight Curve

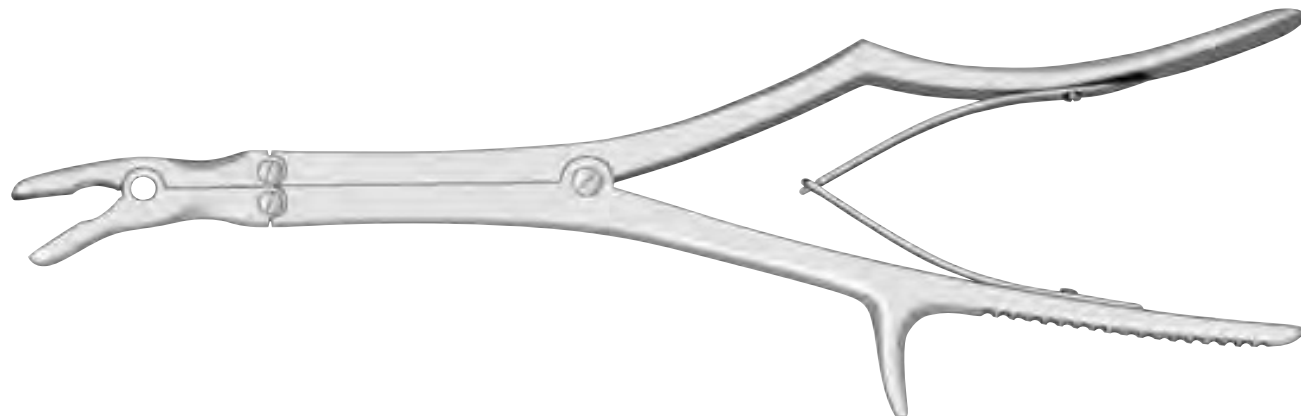
3 x 16mm bite



Sypert Rongeur

14 ½" (368mm)

47-0380	4mm x 16mm bite
47-0382	5mm x 16mm bite
47-0384	8mm x 16mm bite
47-0386	12mm x 16mm bite



Ortho Rongeur with Pistol Grip

55-0990	5mm x 14mm
55-0991	7mm x 16mm
55-0992	10mm x 16mm
	8 ¾" handle



Maxtown Skin Hook

52-0055
4 ¾" (121mm)
one sharp prong
2mm diameter



Wiener Skin Hook

54-0346 5" (127mm) one sharp prong 3.5mm diameter
54-0348 5" (127mm) one blunt prong 3.5mm diameter



Cottle Skin Hook

52-0050
5 ½" (140mm)
one sharp prong
large deep curve
4mm diameter



Frazier Hook

48-0158 5" (127mm) one sharp prong 2.5mm diameter
48-0161 5" (127mm) one blunt prong 2.5mm diameter



Tyrell Hook

- 54-0338 5" (127mm) one sharp prong, 1.5mm diameter
54-0342 5" (127mm) one blunt prong, 1.5mm diameter



Guthrie Hook

- 54-0350
5" (127mm)
two sharp prongs
2.5mm wide



Gillies Hook

- 58-0077 7" (178mm) 2mm diameter
58-0083 7" (178mm) 3mm diameter



Freer Skin Hook

- 52-0040 6" (152mm) two sharp prongs, 2.5mm wide
52-0042 6" (152mm) two blunt prongs, 2.5mm wide



Kleinert-Kutz Hook

6" (152mm)

52-0060 3mm diameter

52-0064 5mm diameter

52-0068 7mm diameter



Joseph Hook

6 1/4" (159mm)

sharp

58-0088 1 prong

58-0091 2 prongs, 2mm wide

58-0092 2 prongs, 5mm wide

58-0093 2 prongs, 7mm wide

58-0094 2 prongs, 10mm wide



Blair (Rollet) Retractor

5 1/2" (140mm) 6mm wide

54-0366 4 sharp prongs, rigid

54-0368 4 blunt prongs, rigid

54-0372 4 sharp prongs, flexible



Rigid Rake Retractor

6 1/2" (165mm)

52-0156 1 sharp prong

52-0158 2 sharp prongs

52-0162 3 sharp prongs

52-0164 1 blunt prong

52-0166 2 blunt prongs

52-0172 3 blunt prongs



Flexible Rake Retractor

6 ¼" (159mm)

52-0174	1 sharp prong
52-0176	2 sharp prongs
52-0182	3 sharp prongs
52-0184	1 blunt prong
52-0188	2 blunt prongs
52-0192	3 blunt prongs



Lahey Retractor

4 ¾" (121mm)

52-0082	1 sharp prongs
52-0086	2 sharp prongs
52-0087	3 sharp prongs



Volkman Retractor

4 ½" (114mm)

52-0198	2 sharp prongs
52-0202	3 sharp prongs
52-0204	4 sharp prongs
52-0206	6 sharp prongs
52-0208	2 blunt prongs
52-0212	3 blunt prongs
52-0214	4 blunt prongs
52-0216	6 blunt prongs



Desmarres Retractor

5 ½" (140mm)

54-0358	#1 12mm width x 10mm depth
52-0360	#2 13mm width x 10mm depth
52-0362	#3 15mm width x 10mm depth
52-0364	#4 17mm width x 10mm depth



Ragnell Retractor

52-0094

5 ¾" (146mm)

double ended

4mm x 8mm depth blade and

6mm width x 15mm depth

blade



Ragnell-Linde Retractor

69-0982

5 ¼" (133mm)

double ended with serrations

4mm x 8mm depth blade and

6mm width x 15mm depth

blade



Fine cross serrations help prevent slippage.

Davis Retractor

52-0076

6" (152mm)

double ended

6mm x 17mm depth blade and

9mm width x 20mm depth blade



Senn Retractor

3 Prongs

52-0088

6 ¼" (159mm) sharp

52-0090

6 ¼" (159mm) blunt



Mathieu Retractor

9mm width x 7mm depth prongs
and 7mm width x 18mm depth blade

52-0092 6 1/4" (159mm) 3 sharp prongs, double ended
52-0093 6 1/4" (159mm) 3 blunt prongs, double ended



52-0093



52-0092



Meyerding Finger Retractor

7" (178mm)

52-0116 #1
52-0118 #2
52-0122 #3
52-0124 #4
52-0128 #5
52-0130 #6



#1



#2



#3



#4



#5



#6



Smithwick Hook and Dissector

49-0320
12" (305mm)
double ended



Crile Retractor

51-0468
4 ³/₈" (111mm)
double ended



Lahey Retractor

51-0528
7 ³/₄" (195mm)
6mm width x 26mm depth
blade



Little Retractor

51-0520
7 ³/₄" (195mm)
13mm width x 15mm depth
blade



Cushing Decompression Retractor

55-0304

8 3/4" (222mm)

13mm width x 22mm depth blade
fenestrated blade and handle



Cushing Vein Retractor

51-0523

8" (203mm)

10mm blade



Langenbeck Retractor

8 3/4" (222mm)

51-0100	#1	3/8" x 1 1/4" (10mm x 32mm)
51-0104	#2	3/8" x 1 1/2" (10mm x 38mm)
51-0108	#3	1/2" x 1 1/2" (13mm x 38mm)
51-0112	#4	5/8" x 1 1/2" (16mm x 38mm)



Volkman Retractor

8 1/2" (216mm) with ring handle

Sharp

52-0254	1 prong, 10mm depth
52-0258	2 prongs, 8mm width x 10mm depth
52-0262	3 prongs, 13mm width x 10mm depth
52-0264	4 prongs, 18mm width x 10mm depth
52-0266	6 prongs, 28mm width x 10mm depth

Blunt

52-0268	2 prongs, 8mm width x 10mm depth
52-0272	3 prongs, 13mm width x 10mm depth
52-0274	4 prongs, 18mm width x 10mm depth
52-0276	6 prongs, 28mm width x 10mm depth



Ribbon Retractor

Malleable

51-0752	6" x 1/2"	(152mm x 13mm)
51-0755	7 1/2" x 1"	(191mm x 25mm)
51-0766	13" x 3/4"	(330mm x 19mm)
51-0768	13" x 1"	(330mm x 25mm)

51-0770

13" x 1 1/4"

(330mm x 32mm)

51-0772

13" x 1 1/2"

(330mm x 38mm)

51-0776

13" x 2"

(330mm x 51mm)



Goelet Retractor

51-0376

7 1/2" (191mm)

double ended



Murphy Bone Skid

46-0892

12" (305mm)



U.S. Army Retractor

51-0372

8 1/2" (216mm)

double ended, set of two

smaller: 15mm width x 25mm depth

and 15mm width x 30mm depth

larger: 15mm width x 37mm depth

and 15mm width x 42mm depth



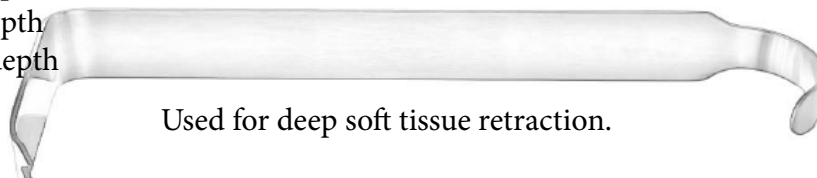
Hibbs Retractor

9 ½" (241mm) sharp teeth

51-0059 25mm width x 50mm depth

51-0060 26mm width x 75mm depth

51-0061 25mm width x 100mm depth



Used for deep soft tissue retraction.

Kelly Retractor

9 ¾" (248mm) with loop handle

51-0216 1 ½" x 2" blade

51-0218 2" x 2 ½" blade

51-0220 2 ½" x 3" blade

51-0222 3" x 3 ½" Blade



Deaver Retractor

Hollow grip handle

51-0230 1" wide x 10" long (25mm x 254mm)

51-0232 1" wide x 12" long (25mm x 305mm)

51-0234 1" wide x 13" long (25mm x 330mm)

51-0236 2 ½" wide x 14 ½" long (64mm x 368mm)

51-0238 3 ½" wide x 12" long (89mm x 305mm)

51-0240 2" wide x 12" long (51mm x 305mm)

51-0242 3" wide x 12" long (76mm x 305mm)



Deaver Retractor Pediatric

51-0245

8 ½" (216mm) 5/8" blade



Deaver Retractor Pediatric

MX 51-0249
8 ½" (216mm) 3/4" blade



Deaver Retractor Pediatric

51-0253
11 ½" (292mm) 1 ½" blade



Deaver Retractor

51-0247
7" (178mm) ¾" blade



Deaver Retractor

51-0251
9" (229mm) 1" blade



Deaver Retractor

51-0255

12" (305mm) 1" blade



Deaver Retractor

51-0257

12" (305mm) 1 ½" blade



Deaver Retractor

51-0259

13" (330mm) 1" blade



Deaver Retractor

51-0261

12" (305mm) 2" blade



Deaver Retractor

51-0263
12" (305mm) 3" blade



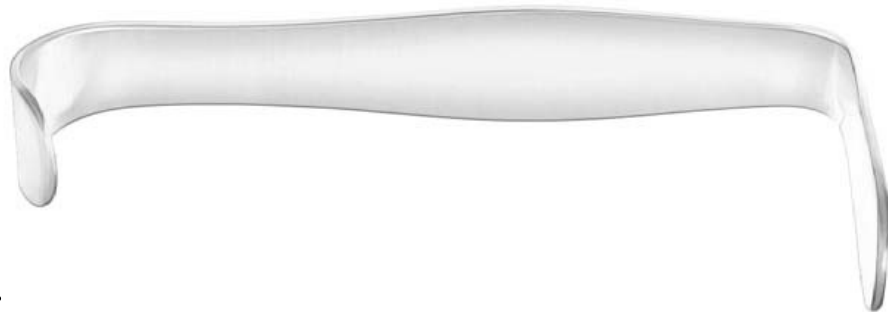
Parker Retractor

Double ended, set of two
51-0480 5" (127mm) set
51-0482 7 1/4" (184mm) set



Parker-Mott Retractor

51-0494
6" (152mm)
double ended, set of two



Roux Retractor

51-0498 5 1/4" (133mm) small
3/4" x 1" (19mm x 25mm)
51-0500 5 3/4" (146mm) medium
7/8" x 1 3/4" (22mm x 35mm)
51-0502 6 5/8" (173mm) large
1" x 1 5/8" (25mm x 41mm)



Mayo-Collins Retractor

51-0388

6" (152mm)

double ended, set of two



Richardson Retractor

9 1/2" (241mm)

51-0200 3/4" wide x 1" long blade
(19mm wide x 25mm long blade)

51-0202 1" wide x 1 1/4" long blade
(25mm wide x 32mm long blade)

51-0204 1 1/2" wide x 1 1/2" long blade
(38mm wide x 38mm long blade)



Richardson Retractor

51-0206

9 ½" (241mm)

¾" wide x 2" long blade
(19mm wide x 51mm long
blade)



Richardson-Eastmann Retractor

51-0212

9 ½" (241mm) Small

51-0214

10 ¼" (260mm) Large

51-0210

set of two



Aufranc Cobra Retractor

10 ½" with hollow handle, 1 ¼" blade width

48-0208

Serrated point tip, 10mm

48-0214

Smooth pointed tip, 10mm

48-0210

Serrated blunt tip, 10mm

48-0212

Smooth blunt tip, 10mm



Bennett Bone Elevator and Retractor

Hollow handle

46-0880

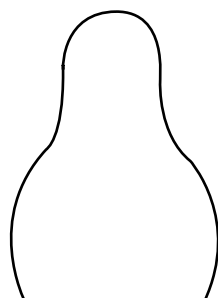
10" (254mm) Small

1 ¾" blade width

46-0884

10" (254mm) Large

2 ½" blade width



Israel Rake Retractor

51-0078

9 ½" (241mm)

3 blunt prongs

30mm width x 37mm depth

51-0080

9 ½" (241mm)

4 blunt prongs

40mm width x 40mm depth



51-0078



Deep Rake Retractor

10 ½" (267mm) with 4 blunt prongs

52-0292 2 ¼" width x 1 ½" depth

52-0294 2 ¼" width x 2" depth

52-0296 2 ¼" width x 2 ½" depth

52-0298 2 ¼" width x 3" depth



Femoral Neck Retractor

86-0130

13" (330mm)

50mm wide at tip, 68mm wide
at widest point of retractor
blade



Femoral Neck Retractor with Suction Holes

86-0135

13" (330mm)

30mm wide at tip, 72mm wide
at widest point of retractor
blade. Blade is slightly concave.



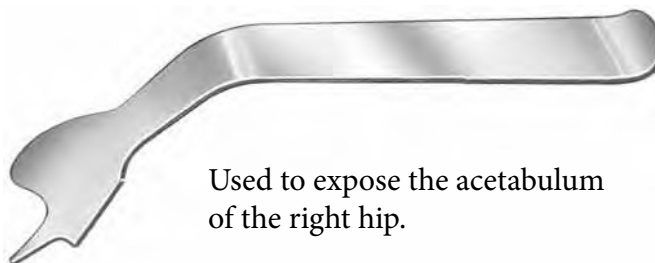
Infero-Posterior Acetabular Capsule Retractor

Right

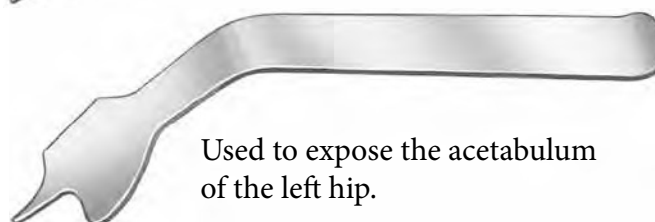
86-0140 10" (254mm) x 50mm

Left

86-0145 10" (254mm) x 50mm



Used to expose the acetabulum
of the right hip.



Used to expose the acetabulum
of the left hip.

Note: These instruments are used to improve the exposure of the femoral canal prior to reaming or rasping for femoral prosthesis. Designed to elevate the proximal femur while retracting tissue during total or hemi-arthroplasty. The design provides excellent access to the intermedullary canal. The Serrations at the tip

Bristow/Bankart Humeral Retractor

46-0870
2 blunt prongs
25mm width x 102mm depth



Bristow/Bankart Soft Tissue Retractor

46-0872
7 1/2" (191mm) with 3 blunt prongs
21mm blade width



Capsule Retractor

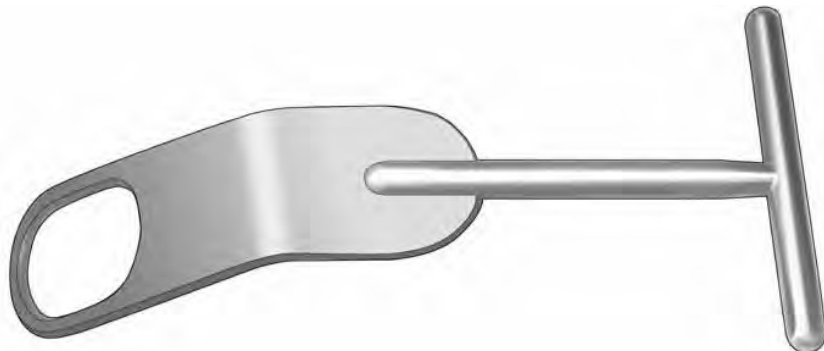
46-0908
10" (254mm) with 3 sharp prongs
22mm blade width



Fukuda Style Shoulder Retractor

7" (178mm)
46-0907
32mm width x 81mm length blade

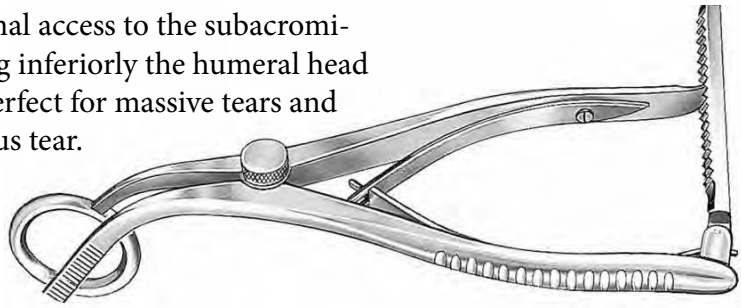
46-0906
38mm width x 81mm length blade



Subacromium Retractor

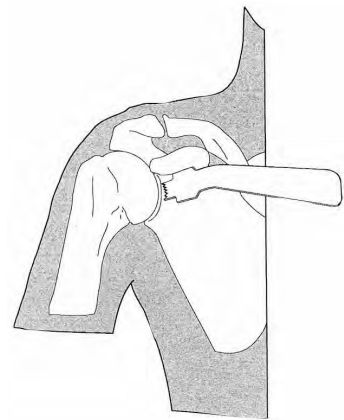
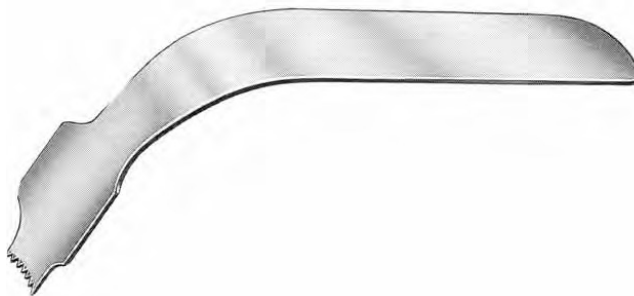
86-0005
7" (178mm) long
right
86-0010
7" (178mm) long
left

Designed to gain optimal access to the subacromi-um space by distracting inferiorly the humeral head from the acromium. Perfect for massive tears and repair of a supraspinatus tear.



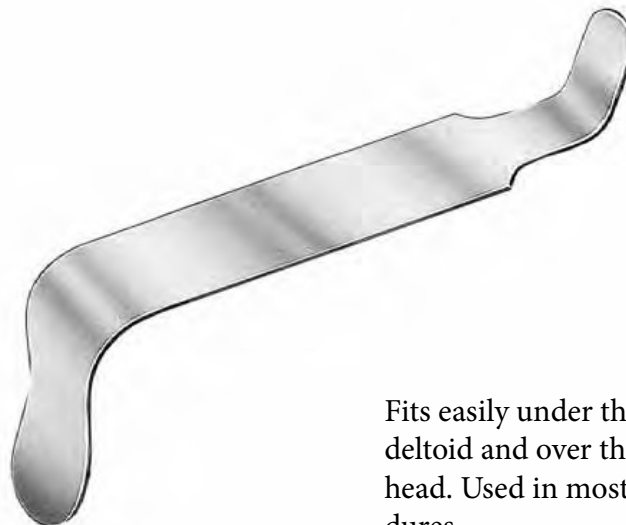
Goldstein Glenoid Neck Retractor

86-0015
18 ½" (470mm)
18mm wide tip



Deltoid Retractor

86-0020
8" (203mm) long x 30mm

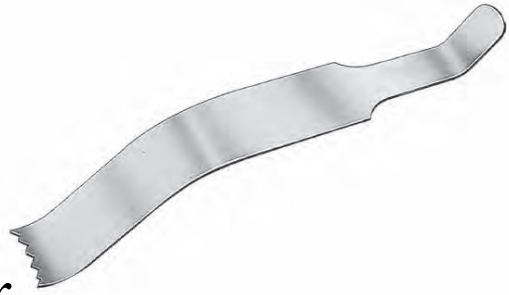


Fits easily under the acromium, deltoid and over the humeral head. Used in most open procedures.

Posterior Glenoid Neck Retractor

86-0025

10" (254mm) long x 30mm



Anterior Glenoid Neck Retractor

86-0030

11" (279mm) long x 25mm tip



Humeral Head Retractor

86-0035

7" (180mm)

strong curve



Single Point Glenoid Retractor

46-0874

9" (229mm)

11mm wide blade



Humeral Head Retractor

46-0875

10" (254mm)

25mm wide blade



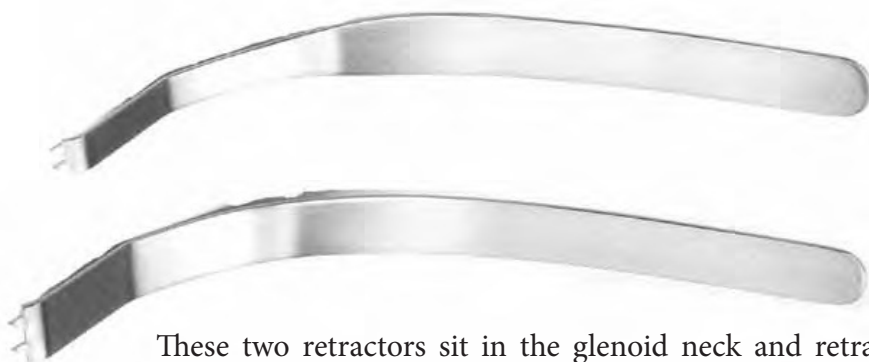
Glenoid Lever

86-0040

15mm wide blade

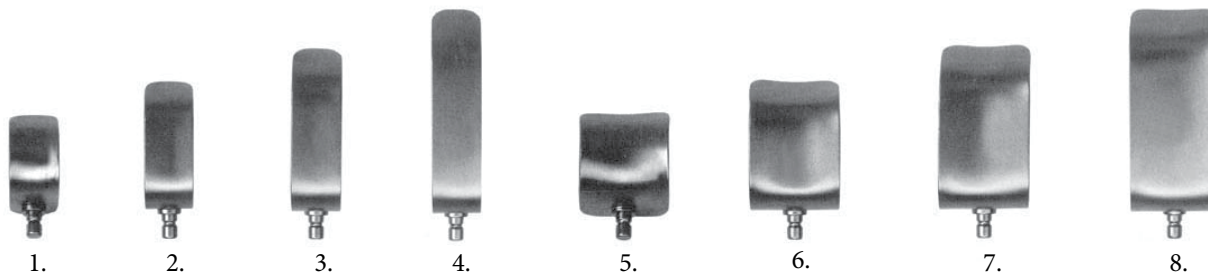
86-0045

20mm wide Blade



These two retractors sit in the glenoid neck and retract medially the subscapularis. Also, during instability repairs they assist in tracking down the medial flap of the incised capsule.

Kolbel Retractor Blades



Pairs, 2 blades

- | | |
|------------|---|
| 1. 86-0050 | 20mm X 36mm pair, popular in early stages and small incision procedures |
| 2. 86-0055 | 20mm X 53mm pair, popular in early stages and small incision procedures |
| 3. 86-0060 | 20mm X 68mm pair, popular in early stages and small incision procedures |
| 4. 86-0065 | 20mm X 85mm pair, for larger muscle patients |
| 5. 86-0070 | 36mm X 36mm pair, standard size, most popular |
| 6. 86-0075 | 36mm X 53mm pair, standard size, most popular |
| 7. 86-0080 | 36mm X 68mm pair, standard size, most popular |
| 8. 86-0085 | 36mm X 85mm pair, for larger muscle patients |

Kolbel Shoulder Retractor

86-0090

Square frame only
No blades included

86-0095

Square frame with four blades
set includes 1 pair each

86-0070 (36mm X 36mm) and
86-0075 (36mm X 53mm)



Kolbel Handheld Retractors

Kolbel Retractor

86-0098

8 ¼" (209mm)

Kolbel Retractor -
Hinged

86-0099

8 ¼" (209mm)



Capsule Retractors

One prong
86-0100
10" (254mm)
20mm wide



The single prong retractor is commonly used when retracting on the interior rim of the glenoid.

Two Prong
86-0105
10" (254mm)
20mm wide



Designed to be placed medially along the scapular neck to retract the anterior capsule and labrum.

Three Prong
86-0110
10" (254mm)
20mm wide



Designed to be placed medially along the scapular neck to retract the anterior capsule and labrum.

Humeral Head Retractor

46-0860
8 ¾" (222mm)
18mm blade width



Pelvic Single Prong Retractor

48-0201
10 $\frac{3}{4}$ " (273mm)
24mm blade width



Blount Double Prong Retractor

48-0204
10 $\frac{1}{2}$ " (267mm)
44mm blade width



Blount Single Prong Retractor

48-0202
10 $\frac{1}{2}$ " (267mm)
37mm blade width



Blount Knee Retractor

48-0206
7" (178mm)
6mm width, distal tip



Doane Knee Retractor

6" (152mm) a.k.a. "Z" Retractor

48-0180

57mm blades, 69mm deep, 11mm wide

48-0184

63mm blades, 76mm deep, 11mm wide



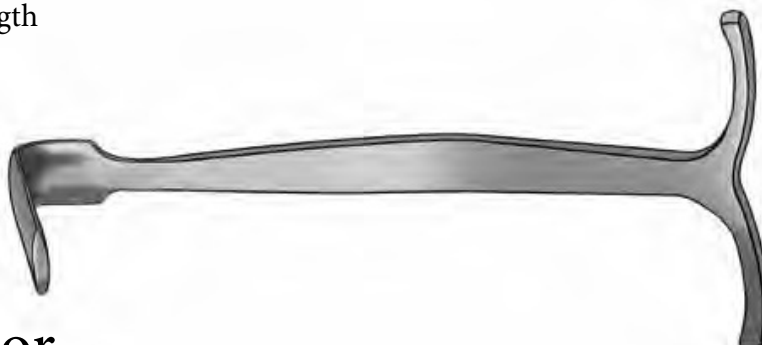
Smillie Knee Retractor

5 ½" (140mm)

48-0198 19mm width x 30mm depth blade

48-0194 19mm width x 45mm length blade

48-0196 19mm width x 60mm length



Smillie Knee Retractor

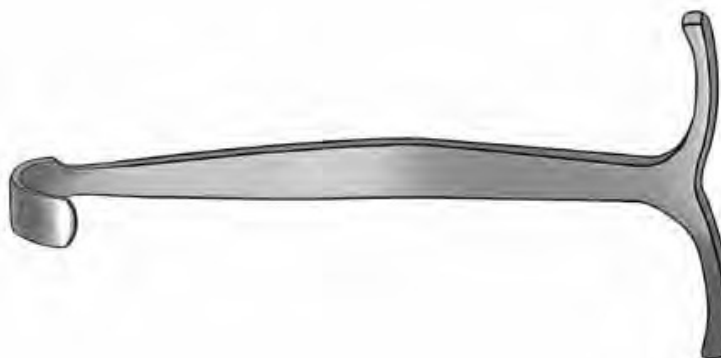
48-0200

5 ½" (140mm)

Full Curve

13mm width x 18mm length

blade



Smillie Knee Retractor

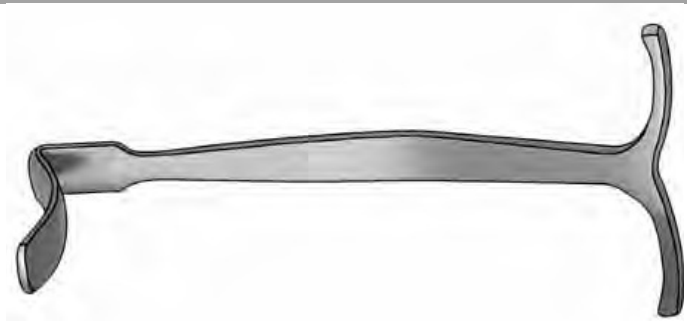
48-0192

5 ½" (140mm)

Reverse Curve

13mm width x 55mm length

blade



Hayes Hand Retractor

46-0823

6 ¼" (159mm) 3mm width distal tip

46-0829

6" (152mm) 6mm width distal tip



Used to elevate carpals and phalanges during hand procedures

Hohmann Retractor

46-0827

6" (152mm)

broad tip

15mm blade width



Hohmann Retractor

46-0826

4 ¾" (121mm) with finger ring

broad tip

16mm blade width



For small fragments.

Mini Hohmann Retractor

46-0830 6 ½" (165mm) 6mm blade width

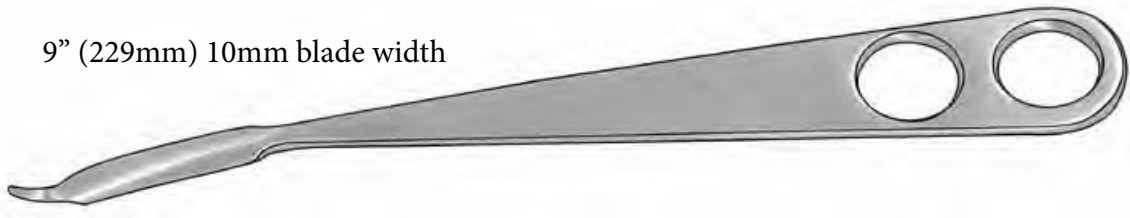
46-0832 6 ½" (165mm) 8mm blade width



Hohmann Retractor

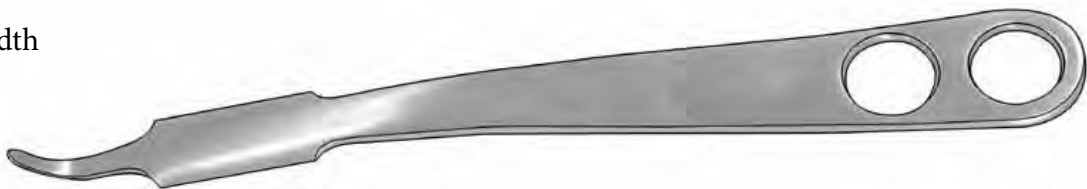
46-0858 8 ½" (216mm) 8mm blade width

46-0836 9" (229mm) 10mm blade width



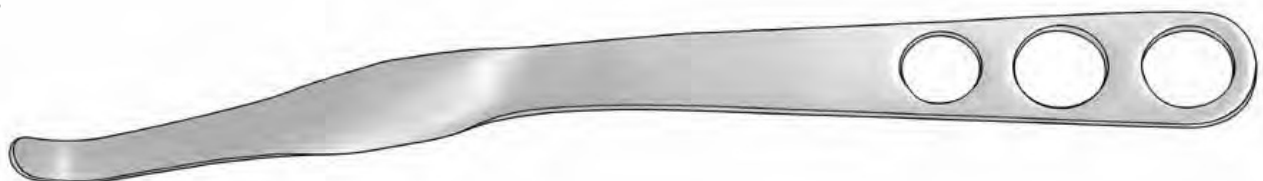
Hohmann Retractor

46-0838
9" (229mm)
18mm blade width



Hohmann Retractor

46-0848
11" (279mm)
22mm blade width
3 holes

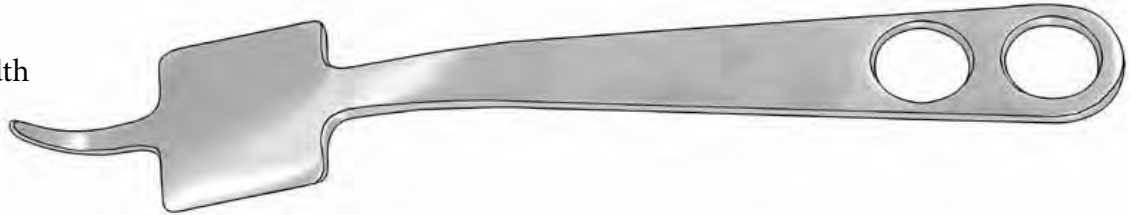


Hohmann Retractor

46-0842

9 ½" (241mm)

43mm blade width



Hohmann Retractor

46-0841

9" (228mm)

43mm blade width

long 64mm shank

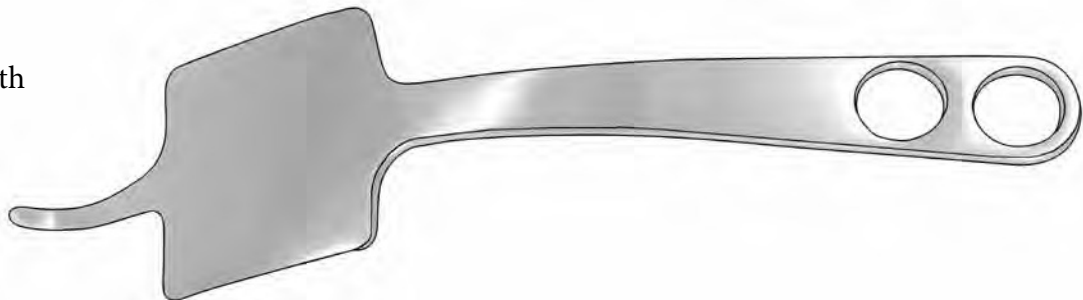


Hohmann Retractor

46-0850

9 ½" (241mm)

70mm blade width



Hohmann Retractor

46-0849

11 ¼" (286mm)

35mm blade width

with wide tip

long 52mm shank



Hohmann Retractor

46-0852

16" (406mm)

22mm blade width

curved 120°



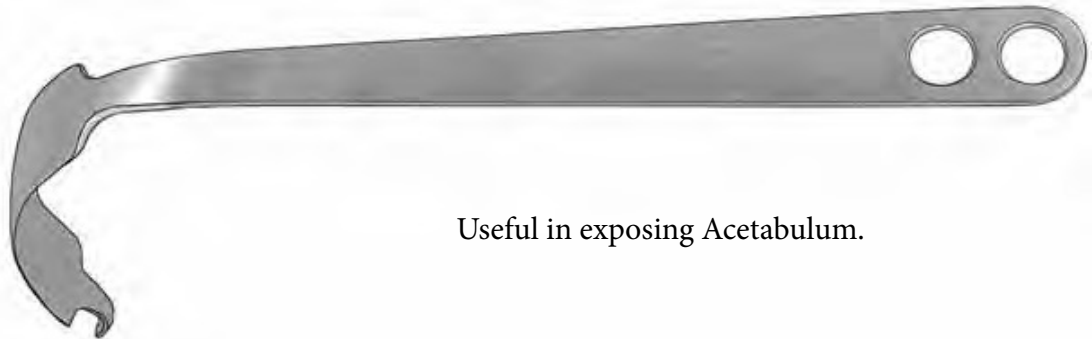
Hohmann Retractor

46-0854

13" (330mm)

40mm blade width

curved 90°



Useful in exposing Acetabulum.

Hohmann Retractor

46-0851

11 ½" (295mm)

23mm blade width



Acetabular Retractor

86-0155

15" (38mm)



"C" Retractor

86-0125

14" (356mm)

22mm wide blade

The "C" Retractor is designed to retract the femur anteriorly during total hip arthroplasty. Placement is made over the pelvic brim for best exposure.



Right Angled Hohmann Retractor

86-0120

9 3/4" long, 18mm wide blade

86-0115

10 1/4" long, 43mm wide blade

-Narrow blade usually designed for retracting around the knee.

Right angled Hohmann's are useful in both knee and hip arthroplasty for retracting tissue at the margins of the joint. It is placed over the margins of the joint to achieve maximum exposure.

Wide blade designed for retracting around the hip. Very useful for retracting tissue in the posterior acetabular brim.



86-0120



86-0115

Waugh Retractor

for spine

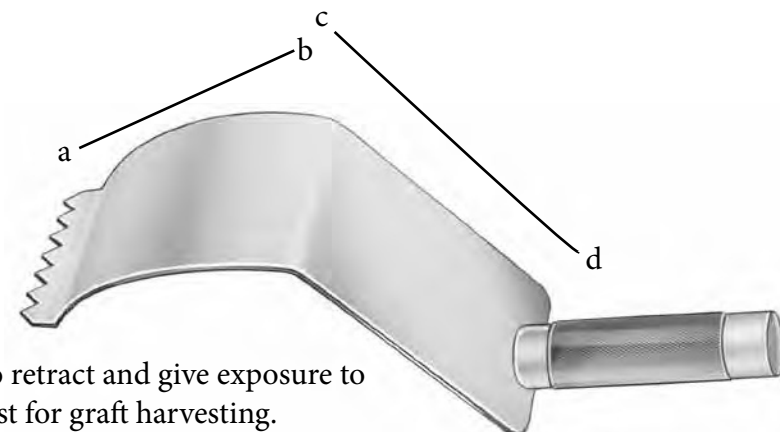
86-0150

50mm wide blade

5 1/4" (133mm) a-b

6" (152mm) c-d

Handle 4" (102mm)



Designed to retract and give exposure to the iliac crest for graft harvesting.

Vickers Finger Retractor

52-0245
2" x 3/4" x 1 1/4"
(51mm x 19mm x 32mm)
2 x 2 blunt hooks
maximum opening: 3/4"

Ideal for retracting wounds on either the front, back, or sides of the fingers or thumb.
Note: The new Vickers retractors are designed to provide excellent visibility during hand and wrist procedures. Each of the retractors are self-retaining and automatically expand the wound site..



Vickers Low Profile Small Wound Retractor

52-0426
2 1/2" x 3" (64mm x 76mm)
10mm depth x 12mm height curved smooth blades
maximum opening: 30mm
center blade: 10mm x 16mm

Note: Useful for trigger finger and small wound retraction. The curved smooth blades hold fat tissue away from tendon sheath.



Vickers Low Profile Hand and Forearm Retractor

52-0427
3" x 3 3/4" (76mm x 95mm)
3 x 3 blunt prongs
11mm depth x 25mm height
maximum opening: 35mm
center blade: 10mm x 16mm

Ideal for tendon transfers with three blunt prongs to secure placement.



Vickers Low Profile Universal Retractor

52-0428
2 1/2" x 3" (64mm x 76mm)
2 x 2 blunt prongs
8mm depth x 17mm height
maximum opening: 30mm
center blade: 10mm x 16mm

Useful for hand and carpal tunnel procedures with two blunt prongs to secure placement.



Spring Wire Retractor

52-0420

very delicate

3 ¼" (83mm)

3 x 3 teeth

10mm width x 13mm height

blades



Alm Retractor

4 blunt prongs

52-0414 2 ¾" (70mm) delicate, 4mm depth x 8mm height

52-0416 4" (102mm) delicate, 5mm depth x 9mm height



Self-Retaining Retractor (Heiss)

52-0417 4" (102mm) delicate, 4 sharp prongs
3mm depth x 8mm height

52-0418 4" (102mm) delicate, 4 blunt prongs
3mm depth x 8mm height

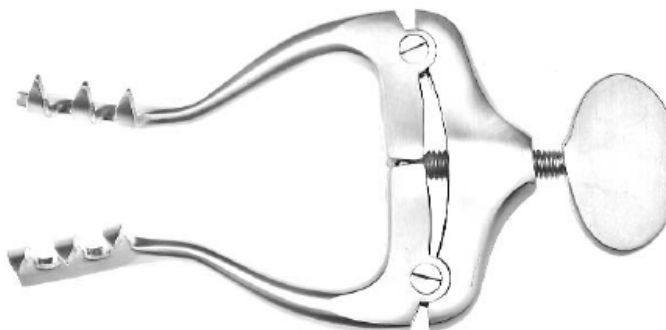


Jansen Retractor

52-0422

4" (102mm)

3 x 3 blunt prongs

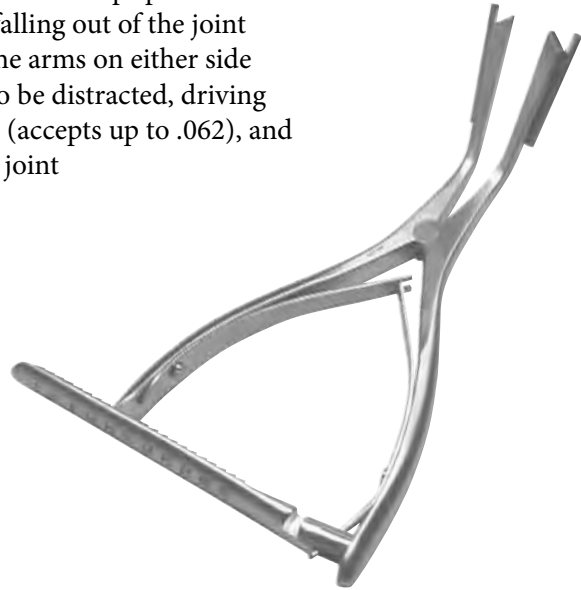


Joint and Calcaneal Spreader

48-0223

6 ¾" (171mm)

Provides excellent joint exposure without blocking intra-articular or osteotomy access. Helps prevent slippage or falling out of the joint by placing the arms on either side of the area to be distracted, driving two K-wires (accepts up to .062), and opening the joint



Cox Metatarsal Spreader

69-0990

4 ½" (114mm)

8mm width x 28mm depth
blades



Gelpi Retractor

Sharp Points

52-0776	3 ½" (89mm)
52-0778	4 ½" (114mm)
52-0780	5 ½" (140mm)
52-0768	7 ½" (191mm)

Blunt Points

52-0770	7 ½" (191mm)
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Gelpi-Seletz Retractor

52-0765
6 ¼" (159mm)
Sharp Points
deep blades



Gelpi Retractor

52-0769
7" (178mm)
with ball stops
sharp points



Wiltse-Gelpi Retractor

52-0771
11" (279mm)
deep blades
Sharp Points



Snitman Endaural Retractor

55-0497
4 ¼" (108mm)
3 x 3 sharp prongs
10mm depth x 14mm height



Scalp Contour Retractor

52-0548
5 ½" (140mm)
3 x 4 Sharp Prongs
15mm depth x 20mm height

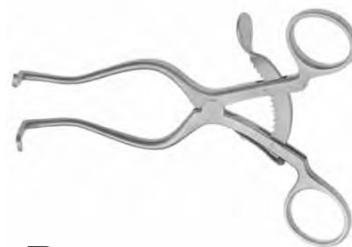
52-0546
5 ½" (140mm)
3 x 4 Blunt Prongs
15mm depth x 20mm height



Handle conforms to contour of skull. Also useful in hand and foot procedures because handle is not obstructive.

Tissue Retractor

55-0438
5 ¼" (133mm)
1 x 1 Blunt Prongs
13mm depth



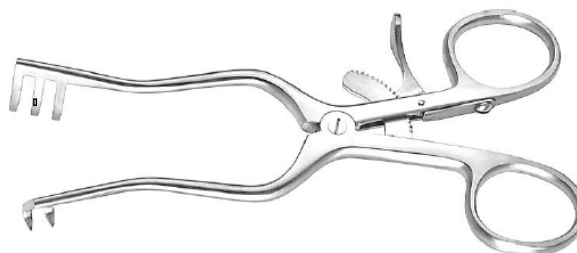
Deep Blade Small Weitlaner Retractor

90-5065
4 ½"
3 x 2 Blunt Prongs
Blade depth: 25mm
Maximum opening: 32mm



Weitlaner Retractor

52-04924" (102mm) Sharp, 2 x 3 Prongs
13mm depth x 13mm height
52-04944" (102mm) Blunt, 2 x 3 Prongs
13mm depth x 13mm height



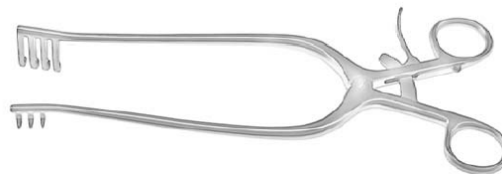
Weitlaner Retractor

3 x 4 Sharp Prongs

52-0498	5 ½" (140mm)	14mm depth x 18mm height
52-0502	6 ½" (165mm)	15mm depth x 20mm height
52-0504	8" (203mm)	16mm depth x 20mm height
52-0506	9 ½" (241mm)	23mm depth x 21mm height

3 x 4 Blunt Prongs

52-0418	5 ½" (140mm)	14mm depth x 18mm height
52-0522	6 ½" (165mm)	15mm depth x 20mm height
52-0524	8" (203mm)	16mm depth x 20mm height
52-0526	9 ½" (241mm)	23mm depth x 21mm height



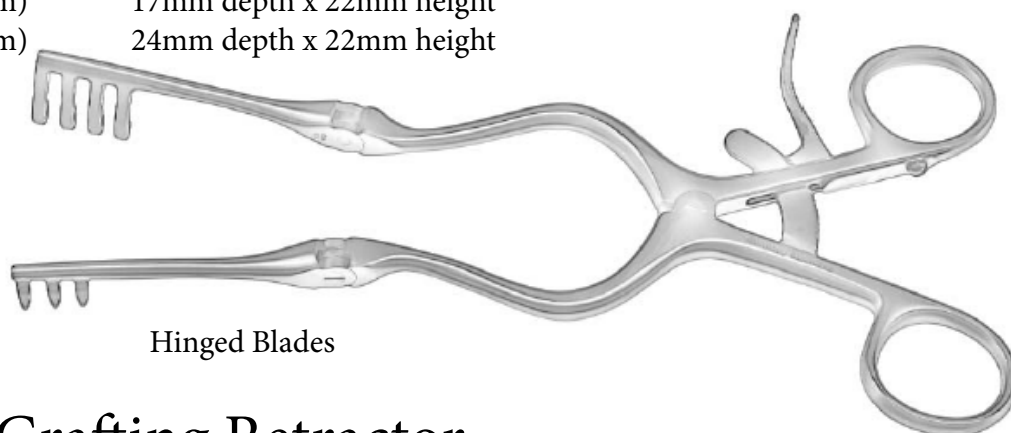
Beckman-Weitlaner Retractor

3 x 4 Sharp Prongs

52-0530	5 ½" (140mm)	15mm depth x 20mm height
52-0532	6 ½" (165mm)	15mm depth x 20mm height
52-0534	8 ½" (216mm)	17mm depth x 22mm height
52-0542	9 ½" (241mm)	24mm depth x 22mm height

3 x 4 Blunt Prongs

52-0536	5 ½" (140mm)	15mm depth x 20mm height
52-0538	6 ½" (165mm)	15mm depth x 20mm height
52-0540	8 ½" (216mm)	17mm depth x 22mm height
52-0544	9 ½" (241mm)	24mm depth x 22mm height

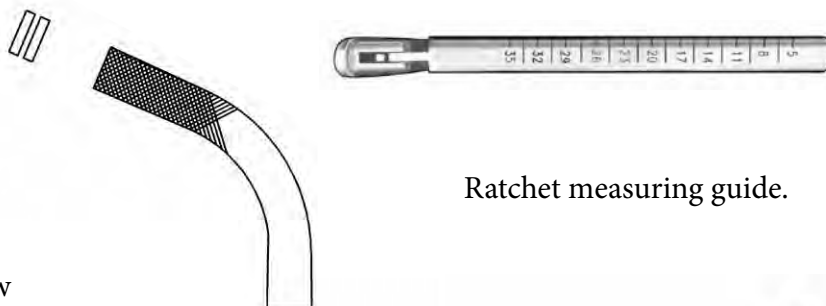


Saxena Bone Grafting Retractor

48-0220

6 ½" (165mm)

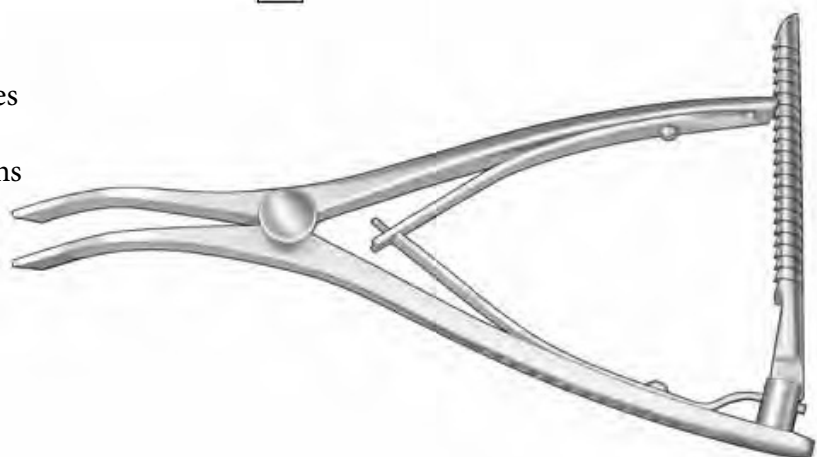
35mm calibrated ratchet



Ratchet measuring guide.

Note:

- Ratchet is calibrated in millimeters to accurately assess how wide the lateral portion of the bone graft needs to be.
- Helpful in many types of procedures to accurately assess the amount of bone graft needed, such as for fusions and nonunions.



Adson Retractor

52-0442

7 ½" (191mm) Straight

4 x 4 Sharp Prongs

18mm depth x 18mm height



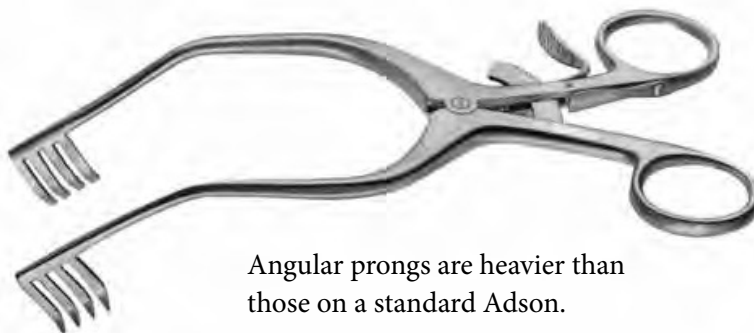
Adson Retractor

52-0444

7 ½" (191mm) Angled

4 x 4 Sharp Prongs

18mm depth x 18mm height



Angular prongs are heavier than those on a standard Adson.

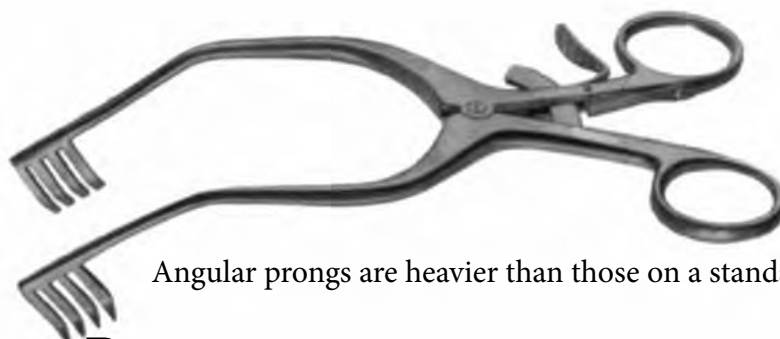
D'Errico-Adson Retractor

55-0498

7 ⅝" (187mm)

4 x 4 Sharp Prongs

22mm depth x 19mm height



Angular prongs are heavier than those on a standard Adson.

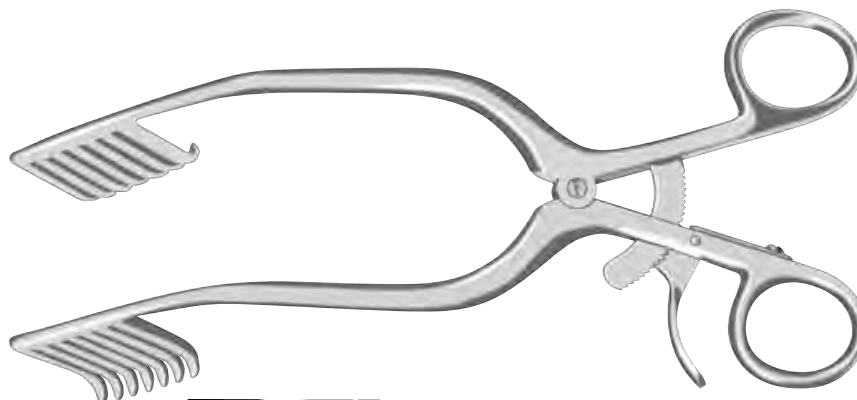
Miskimon Cerebellum Retractor

55-0499

7 ½" (191mm)

7 x 7 Sharp Prongs

35mm depth x 32mm height



Crutchfield Tongs

48-0249
4 ½" (114mm)
with two drills



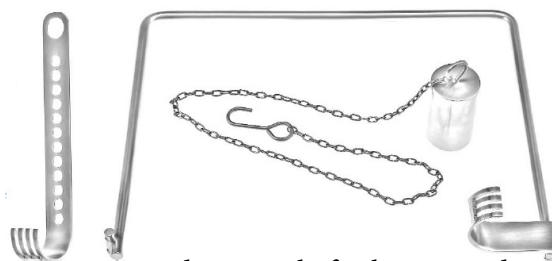
Frazier Laminectomy Retractor

52-0702
3 x 4 Blunt Prongs
Spread: 3 ½"
Arm Length: 5"



Charnley Initial Incision Retractor

52-0704
4 Sharp Prongs, Stainless Steel
Maximum Retraction width: 9 ¾" (247mm)
Prong Depth: 1" (25mm)
Blade Width: 1" (25mm)
Weight: 3 lbs.



used primarily for hip procedures.

Other blades available:

Prongs Depth x Blade Width	Short Blade	Long Blade
1" x 1" (25mm x 25mm)	52-0704S	52-0704L
2" x 1" (51mm x 25mm)	52-0705S	52-0705L
2 ¼" x 1" (57mm x 25mm)	52-0706S	52-0706L
2 ½" x 1" (64mm x 25mm)	52-0707S	52-0707L
3" x 1" (76mm x 25mm)	52-0708S	52-0708L
4" x 1" (102mm x 25mm)	52-0709S	52-0709L
5" x 1" (127mm x 25mm)	52-0711S	52-0711L

52-0704W	Weight and chain only
52-0704F	Frame only
52-0704P	Plate and Screw only

Note: Deeper blades available upon special order.

Beckman-Eaton Retractor

52-0476

12 ½" (318mm)

Hinged blades

7 x 7 Sharp Prongs

45mm depth x 45mm height

maximum opening: 6 ¾"



Beckman-Adson Laminectomy Retractor

12 ¼" (311mm) with Hinged Blades

Sharp

4 x 4 Prongs

Maximum opening: 5 ⅛" (145mm)

52-0490 25mm depth x 25mm height

52-0486 44mm depth x 25mm height

Blunt

4 x 4 Prongs

Maximum opening: 6" (152mm)

52-0484 25mm depth x 25mm height

52-0488 44mm depth x 25mm height



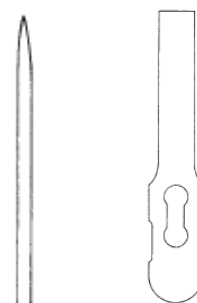
Interchangeable Osteotome, Chisel, and Gouge Set

- 49-0630 complete set with handle, key and all blades
49-0632 7" phenolic handpiece only



OSTEOTOME BLADES

- 49-0668 5mm
49-0672 10mm
49-0676 16mm
49-0680 25mm



49-0672

CHISEL BLADES

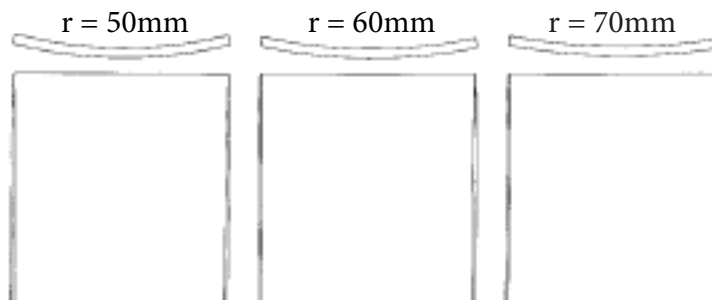
- 49-0652 5mm
49-0656 10mm
49-0660 16mm
49-0664 25mm



49-0664

GOUGE BLADES

- 49-0640 1" width, 50mm radius
49-0644 1" width, 60mm radius
49-0648 1" width, 70mm radius



49-0640

49-0644

49-0648

Blades should be discarded after use.

KEY

- 49-0634



Mini-Lambotte Osteotome

5" straight

46-0336	4mm	46-0343	14mm
46-0338	6mm	46-0345	15mm
46-0340	8mm	46-0346	18mm
46-0342	10mm	46-0347	19mm
46-0344	12mm	46-0335	20mm



Long Bevel Osteotome

7" straight with calibration lines

69-0940	10mm
69-0946	20mm
69-0950	25mm

7" curved with calibration lines

69-0970	5mm
69-0975	10mm



Lambotte Osteotome

7" straight with calibration lines

46-0348	4mm	46-0352	12mm
46-0349	5mm	46-0353	16mm
46-0350	6mm	46-0354	19mm
46-0358	8mm	46-0355	22mm
46-0351	10mm	46-0356	25mm

7" curved with calibration lines

46-0348C	4mm	46-0352C	12mm
46-0349C	5mm	46-0353C	16mm
46-0350C	6mm	46-0354C	19mm
46-0358C	8mm	46-0355C	22mm
46-0351C	10mm	46-0356C	25mm



Lambotte Osteotome

9" straight without calibration lines

46-0304	1/4"	6mm
46-0306	1/2"	13mm
46-0310	3/4"	19mm
46-0314	1"	25mm
46-0318	1 1/4"	32mm
46-0322	1 1/2"	38mm

9" curved without calibration lines

46-0328	1/4"	6mm
46-0329	1/2"	13mm
46-0330	3/4"	19mm
46-0331	1"	25mm
46-0332	1 1/4"	32mm
46-0333	1 1/2"	38mm



Hoke Osteotome

5 1/4" (140mm)

straight

46-0497	1/8"	3mm
46-0498	3/16"	4mm
46-0499	1/4"	6mm
46-0500	5/16"	8mm
46-0501	3/8"	10mm
46-0502	1/2"	13mm
46-0503	5/8"	16mm
46-0504	3/4"	19mm

curved

46-0700	1/8"	3mm
46-0701	3/16"	4mm
46-0702	1/4"	6mm
46-0703	5/16"	8mm
46-0704	3/8"	10mm
46-0706	1/2"	13mm
46-0708	5/8"	16mm
46-0709	3/4"	19mm



Hoke Chisel

5 1/4" (133mm) straight

46-0505	3/16" (4mm)
46-0506	1/4" (6mm)
46-0507	3/8" (10mm)
46-0508	1/2" (13mm)
46-0509	3/4" (19mm)



Sheehan Osteotome

6 1/4" (159mm) straight

46-0268	2mm	46-0278	12mm
46-0270	4mm	46-0280	15mm
46-0272	6mm		
46-0274	8mm		
46-0276	10mm		



Silver Osteotome

7" (178mm) with single guard

58-0100 straight

58-0102 curved, guard right

58-0104 curved, guard left



U.S. Army Pattern Osteotome

7" (178mm)

46-0284 6mm

46-0286 12mm

46-0288 18mm



U.S. Army Pattern Chisel

7" (178mm)

46-0289 6mm

46-0290 12mm

46-0291 14mm



U.S. Army Pattern Gouge

7" (178mm)

46-0292 6mm

46-0293 12mm

46-0294 14mm



Alexander Chisel

7" (178mm)

49-0040	4mm
49-0041	6mm
49-0042	8mm
49-0043	10mm
49-0044	12mm
49-0045	14mm



Alexander Gouge

7" (178mm)

49-0050	4mm
49-0051	6mm
49-0052	8mm
49-0053	10mm
49-0054	12mm
49-0055	14mm



Lexer Mini Chisel

7" (178mm)

49-0260	4mm
49-0262	6mm
49-0264	8mm
49-0266	10mm
49-0268	12mm



Lexer Chisel

8 3/4" (222mm)

49-0246	5mm
49-0248	7mm
49-0250	10mm
49-0252	15mm
49-0254	20mm
49-0256	25mm
49-0258	30mm



Smith Peterson Osteotome

8" straight

46-0448	1/4"	6mm
46-0449	3/8"	10mm
46-0450	1/2"	13mm
46-0451	5/8"	16mm
46-0452	3/4"	19mm
46-0453	1"	25mm
46-0454	1 1/4"	32mm

8" curved

46-0457	1/4"	6mm
46-0458	3/8"	10mm
46-0459	1/2"	13mm
46-0460	5/8"	16mm
46-0461	3/4"	19mm
46-0462	1"	25mm
46-0463	1 1/4"	32mm



Smith Peterson Gouge

8" straight

46-0466	1/4"	6mm
46-0467	3/8"	10mm
46-0468	1/2"	13mm
46-0476	5/8"	16mm
46-0477	3/4"	19mm
46-0478	1"	25mm
46-0479	1 1/4"	32mm

8" curved

46-0487	1/4"	6mm
46-0488	3/8"	10mm
46-0489	1/2"	13mm
46-0490	5/8"	16mm
46-0491	3/4"	19mm
46-0493	1"	25mm
46-0495	1 1/4"	32mm



Shoulder Penetrating Gouge

46-0919

8 1/2" (220mm)



Stille-Type Osteotome

8" (203mm) straight

49-0002 10mm

49-0004 14mm

49-0006 18mm

49-0008 22mm



Stille-Type Chisel

8" (203mm) straight

49-0010 10mm

49-0012 14mm

49-0014 18mm

49-0016 22mm



Stille-Type Gouge

8" (203mm) straight

49-0018 10mm

49-0020 14mm

49-0022 18mm

49-0024 22mm



Hibbs Chisel

9" (229mm) straight

49-0059	1/4" (6mm)	49-0064	7/8" (22mm)
49-0060	3/8" (10mm)	49-0065	1" (25mm)
49-0061	1/2" (13mm)	49-0066	1 1/8" (29mm)
49-0062	5/8" (16mm)	49-0067	1 1/4" (31mm)
49-0063	3/4" (19mm)	49-0068	1 1/2" (38mm)

9" (229mm) curved

49-0073	1/4" (6mm)	49-0078	7/8" (22mm)
49-0074	3/8" (10mm)	49-0079	1" (25mm)
49-0075	1/2" (13mm)	49-0080	1 1/8" (29mm)
49-0076	5/8" (16mm)	49-0081	1 1/4" (31mm)
49-0077	3/4" (19mm)	49-0082	1 1/2" (38mm)



Hibbs Gouge

9" (229mm) straight

46-0387	1/4" (6mm)	46-0392	7/8" (22mm)
46-0388	3/8" (10mm)	46-0393	1" (25mm)
46-0389	1/2" (13mm)	46-0394	1 1/8" (29mm)
46-0390	5/8" (16mm)	46-0395	1 1/4" (31mm)
46-0391	3/4" (19mm)	46-0401	1 1/2" (38mm)

9" (229mm) curved

46-0402	1/4" (6mm)	46-0408	7/8" (22mm)
46-0403	3/8" (10mm)	46-0409	1" (25mm)
46-0404	1/2" (13mm)	46-0410	1 1/8" (29mm)
46-0405	5/8" (16mm)	46-0411	1 1/4" (31mm)
46-0407	3/4" (19mm)	46-0412	1 1/2" (38mm)



Hibbs Osteotome

9" (229mm) straight

46-0359	1/4" (6mm)	46-0364	7/8" (22mm)
46-0360	3/8" (10mm)	46-0365	1" (25mm)
46-0361	1/2" (13mm)	46-0366	1 1/8" (29mm)
46-0362	5/8" (16mm)	46-0367	1 1/4" (31mm)
46-0363	3/4" (19mm)	46-0368	1 1/2" (38mm)

9" (229mm) curved

46-0373	1/4" (6mm)	46-0380	7/8" (22mm)
46-0376	3/8" (10mm)	46-0381	1" (25mm)
46-0377	1/2" (13mm)	46-0382	1 1/8" (29mm)
46-0378	5/8" (16mm)	46-0383	1 1/4" (31mm)
46-0379	3/4" (19mm)	46-0384	1 1/2" (38mm)



Swan Neck Gouge

49-0084
9" (229mm)



Cobb Osteotome

11" (280mm) straight

49-0350	1/4" (6mm)
49-0351	3/8" (10mm)
49-0352	1/2" (13mm)
49-0353	5/8" (16mm)
49-0354	3/4" (19mm)
49-0355	1" (25mm)
49-0356	1 1/4" (31mm)

11" (280mm) curved

49-0357	1/4" (6mm)
49-0358	3/8" (10mm)
49-0359	1/2" (13mm)
49-0360	5/8" (16mm)
49-0361	3/4" (19mm)
49-0362	1" (25mm)
49-0363	1 1/4" (31mm)



Cobb-Type Spinal Gouge

11" (280mm)

All stainless, with knurled handle



49-0030
straight
5/32" (7mm) blade
width



49-0032
medium curve
5/32" (7mm) blade
width



49-0034
strong curve
5/32" (7mm) blade
width



49-0036
reverse curve
5/32" (7mm) blade width

Endoscopic Hibbs Gouge

55-0630

18 ½" (470mm) with stainless steel handle

.28" (7mm) tip width straight

3 ½" tip length

10 ¾" shaft length

4 ¼" handle length

.45" (11.5mm) shaft diameter



Endoscopic Hibbs Osteotome

55-0642

18 ½" (470mm) with stainless steel handle

3/8" (10mm) tip width straight

3 ½" tip length

10 ¾" shaft length

4 ¼" handle length

.45" (11.5mm) shaft diameter



McKenty Elevator

57-0620

5 ½" (140mm)

Semi-Sharp 4mm



57-0622

5 ½" (140mm)

Semi-Sharp 5mm

Ohl Elevator

57-0612

7" (178mm)

Double Ended

6mm Semi-Sharp end
and 5mm Sharp end



Freer Elevator

57-0614

7 ½" (191mm)

Double Ended

5mm Sharp end
and 5mm Blunt End



Allerdyce Elevator and Dissector

57-0616

7 ½" (191mm)

Double Ended

8mm Semi-Sharp End
and 8mm Blunt End



Sachs Nerve Elevator

57-0618
7 ½" (191mm)
3mm blunt



Kleinert Kutz Elevator and Dissector

57-0615
7 ¾" (195mm)
2mm x 3mm sharp ends



Smithwick Hook and Dissector

49-0320
12" (305mm)
double ended
5mm semi-sharp end
and 1mm x 10mm blunt hook



Nerve Probe

Endoscopic
15" (381mm) with ball end
and stainless steel handle
3 ½" tip and shaft length
11 ½" handle length
.280" (7.1mm) shaft diameter
MX 55-0662 angled 45°
MX 55-0664 angled 90°



Penfield Elevator

Endoscopic

55-0654

15" (381mm)

blunt with stainless steel handle

.16" (4mm) tip width, 3 ½" tip and shaft length

11 ½" handle length, .280" (7.1mm) shaft diameter



Sayre Periosteal Elevator

58-0075

6 ½" (165mm)

sharp, double ended

5mm end and 9mm end

58-0076

6 ½" (165mm)

blunt, double ended

5mm end and 9mm end



Cushing Periosteal Elevator

49-0322 7 ½" (191mm) 15mm sharp, curved edge

49-0324 7 ½" (191mm) 15mm sharp, straight edge

49-0326 7 ½" (191mm) 15mm serrated curved, edge



Lane Periosteal Elevator

46-0208

7 ¾" (195mm)

narrow

6mm blunt

46-0210

7 ¾" (195mm)

broad

10mm blunt



Langenbeck Periosteal Elevator

46-0222

7 $\frac{3}{4}$ " (195mm)

6mm narrow, blunt edge

46-0224

7 $\frac{3}{4}$ " (195mm)

17mm broad, sharp edge



Sedillot Periosteal Elevator

58-0085

7" (178mm)

16mm sharp



Farabeuf Periosteal Raspatory

58-0106

6" (152mm) sharp

13mm curved edge, straight blade

58-0108

6" (152mm) sharp

13mm straight edge, curved blade



Kirmisson Periosteal Raspatory

58-0112

6 $\frac{3}{4}$ " (172mm)

sharp



Alexander Periosteal Raspatory

58-0110
8" (203mm)
12mm sharp



Key Periosteal Elevator

Sharp edge

46-0258	7" 1/4" width
46-0260	7 1/2" 3/8" width
46-0262	7 1/2" 1/2" width
46-0263	7 1/2" 5/8" width
46-0264	8" 3/4" width
46-0266	8 1/4" 1" width



Adson Periosteal Elevator

49-0310	6 3/4" sharp 7mm straight
49-0311	6 3/4" blunt 7mm curved
49-0313	6 3/4" semi-sharp 7mm straight
49-0312	6 3/4" semi-sharp 7mm curved



Phenolic Periosteal Elevators

46-0206

7 ¼" (184mm)

sharp

3mm straight edge

curved blade

phenolic handle



46-0207

7 ¼" (184mm)

sharp

6mm straight edge

curved blade

phenolic handle



46-0211

7 ¼" (184mm)

sharp

6mm straight edge

straight blade

phenolic handle



46-0212

7 ¼" (184mm)

sharp

6mm round edge

curved blade

phenolic handle



Phenolic Periosteal Elevators

46-0213

7 $\frac{3}{4}$ " (195mm)

sharp

14mm oval edge

straight blade

phenolic handle



46-0214

7 $\frac{1}{4}$ " (184mm)

sharp

14mm oval edge

curved blade

phenolic handle



46-0215

7 $\frac{1}{4}$ " (184mm)

sharp

13mm straight edge

straight blade

phenolic handle



46-0216

7 $\frac{1}{4}$ " (184mm)

sharp

13mm straight edge

curved blade

phenolic handle



46-0217

7 $\frac{1}{4}$ " (184mm)

sharp

20mm round edge

straight blade

phenolic handle



Carroll Periosteal Elevator

55-0306

5 ½" (140mm)

sharp

double ended

3mm round end and 10mm

flat end



Metatarsal Elevator

69-0758 6 ½" (165mm) sharp, 9mm

69-0760 6 ½" (165mm) sharp, 11mm

69-0762 6 ½" (165mm) sharp, 13mm

69-0764 6 ½" (165mm) sharp, 15mm

69-0766 6 ½" (165mm) sharp, 17mm



Crego Periosteal Elevator

46-0244 7 ½" (191mm) blunt, fully curved
width: 9/16" (15mm)

46-0245 7 ½" (191mm) blunt, slightly curved
width: 9/16" (15mm)

46-0246 7 ¾" (185mm) blunt, fully curved
width: 9/32" (7mm)

46-0248 8" (203mm) blunt, slightly curved
width: 9/32" (7mm)



Darrach Elevator

Blunt

	width at tip	overall length
46-0901	3/8"	10 1/4" (260mm) x-small
46-0902	1/2"	10 1/4" (260mm) small
46-0903	3/4"	10 1/4" (260mm) medium
46-0905	1"	10 1/4" (260mm) large
46-0904	1"	13 3/4" (349mm) x-large



Chandler Elevator

Blunt

	width at tip	maximum width	overall length
46-0250	8mm	13mm	7 1/2"
46-0252	12mm	19mm	8"
46-0254	17mm	25mm	9"
46-0256	19mm	30mm	10"



Cobb Spinal Elevator

9 1/2" sharp

With hexagonal handle, all stainless steel

49-0339	3/8" (10mm)
49-0340	1/2" (13mm)
49-0342	3/4" (19mm)
49-0344	1" (25mm)
49-0346	1 1/4" (32mm)



Endoscopic Elevator

Endoscopic with Phenolic Handle

55-0620 17" (432mm) sharp
1/4" (6mm) tip width, 2.7" tip length
9.3" shaft length, 5" handle length
.285" (7.2mm) shaft diameter

55-0612 20" (508mm) sharp
3/8" (10mm) tip width, 3 1/2" tip length
10" shaft length, 6 1/2" handle length
.45" (11.5mm) shaft, diameter

55-0610 20" (508mm) sharp
1/4" (6mm) tip width, 3 1/2" tip length
10" shaft length, 6 1/2" handle length
.45" (11.5mm) shaft, diameter

55-0614 20" (508mm) sharp
.490" (13mm) tip width, 3 1/2" tip length
10" shaft length, 6 1/2" handle length
.45" (11.5mm) shaft diameter



Woodson Elevator and Spatula

55-0300
10" (254mm) double ended
3mm semi-sharp end



Woodson Dural Separator and Packer

55-0302
7" (178mm) double ended
with grooved blade
3mm blunt end



Rib Elevator

Endoscopic
17" sharp with phenolic handle
9mm (432mm) radius tip
4" tip length
8" shaft length
5" handle length
.45" (11.5mm) shaft diameter

55-0640 angled 40°

55-0644 angled 90°



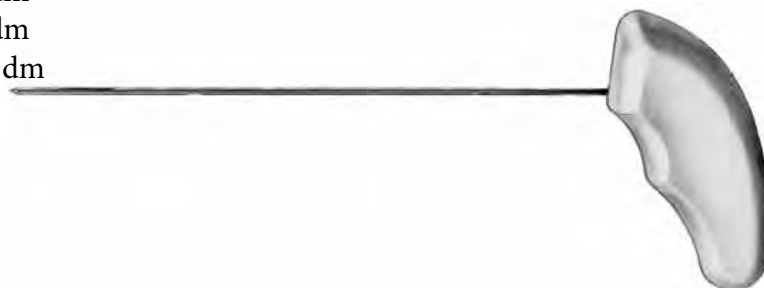
Shoulder Penetrating Awl

46-0916
9 ¼" (235mm)
phenolic handle



Rush Awl and Reamer

48-0338 7 ½" working end 2.5mm dm
48-0339 8 ¼" working end 3mm dm
48-0340 8 ½" working end 5mm dm
48-0341 10 ½" working end 6mm dm



Bone Awl

48-0336
6 ¼" (159mm)
square taper



Perthes Bone Awl

48-0337
8 ¼" (210mm)



Kuntscher Diamond Pointed Awl

48-0303
11" (280mm)
with handle



Shoulder Percussion Awl

8 ½" (220mm)
46-0913 small
46-0914 medium
46-0915 large



Volkman Bone Hook

48-0334
8" (203mm)
sharp
19mm height x 27mm depth



Volkman Bone Hook

48-0331 9" (229mm) sharp
15mm height x 20mm depth
48-0333 9" (229mm) blunt
15mm height x 20mm depth
48-0335 9 ¾" (248mm) sharp
15mm height x 20mm depth



Bone Hook

Sharp with grip handle

48-0342 9" (229mm)

Small 6mm height x 10mm depth

48-0343 9" (229mm)

Medium 11mm height x 18mm depth

48-0344 9" (229mm)

Large 12mm height x 21mm depth



Bone Hook

sharp with T-handle

48-0332

7" (178mm)

Large, for femurs

18mm height x 21mm depth



Self Tapping Femoral Head Remover

48-0346

8 3/4" (222mm)



Long Bone Hook

Sharp with Phenolic Handle

48-0580

Large

10" (280mm)

10mm height x 40mm depth





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