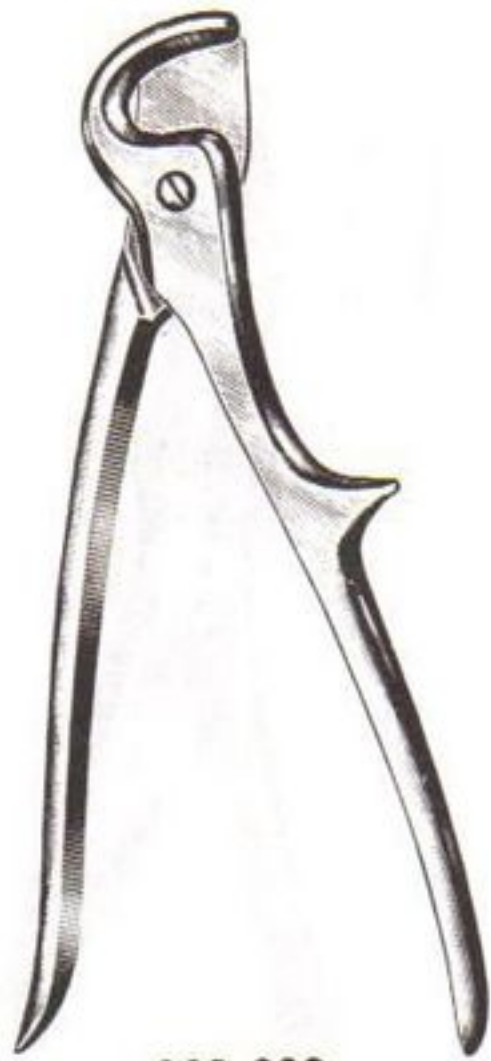
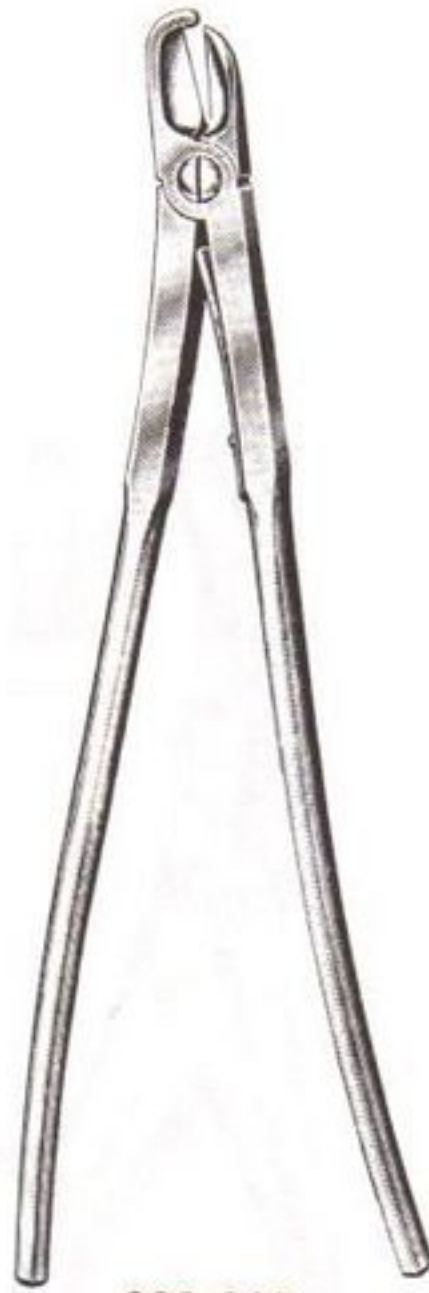


THORACIC INSTRUMENTS

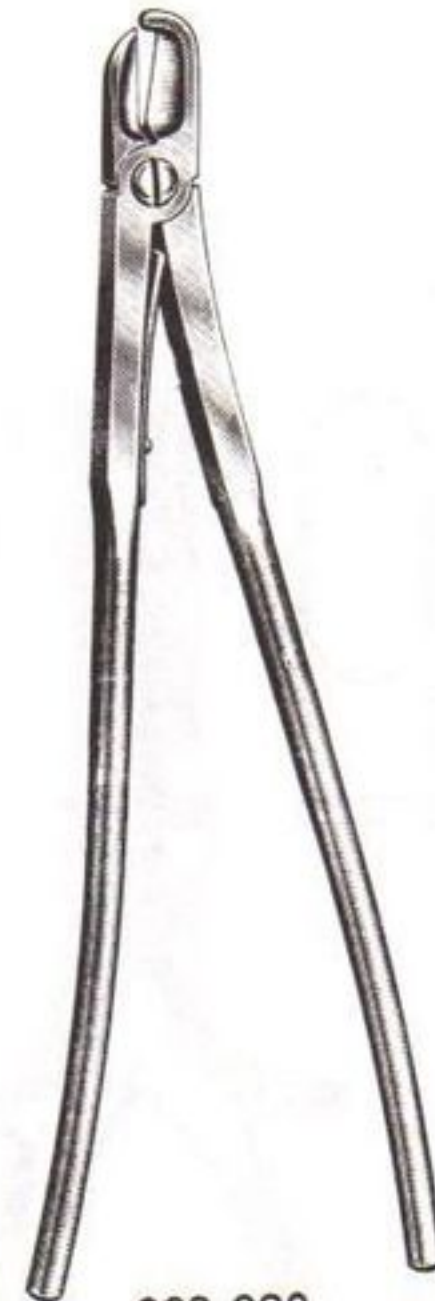
- 663-450 Sauerbruch Rib Shears, 10"
- 663-500 Bethune Rib Shears, 13-1/2"
- 663-559 Giertz-Shoemaker Rib Shears, 10"
- 663-565 Sauerbruch Rongeur, 12" Straight, Square Jaws, 17mm Wide



663-609



663-618



663-620



663-622

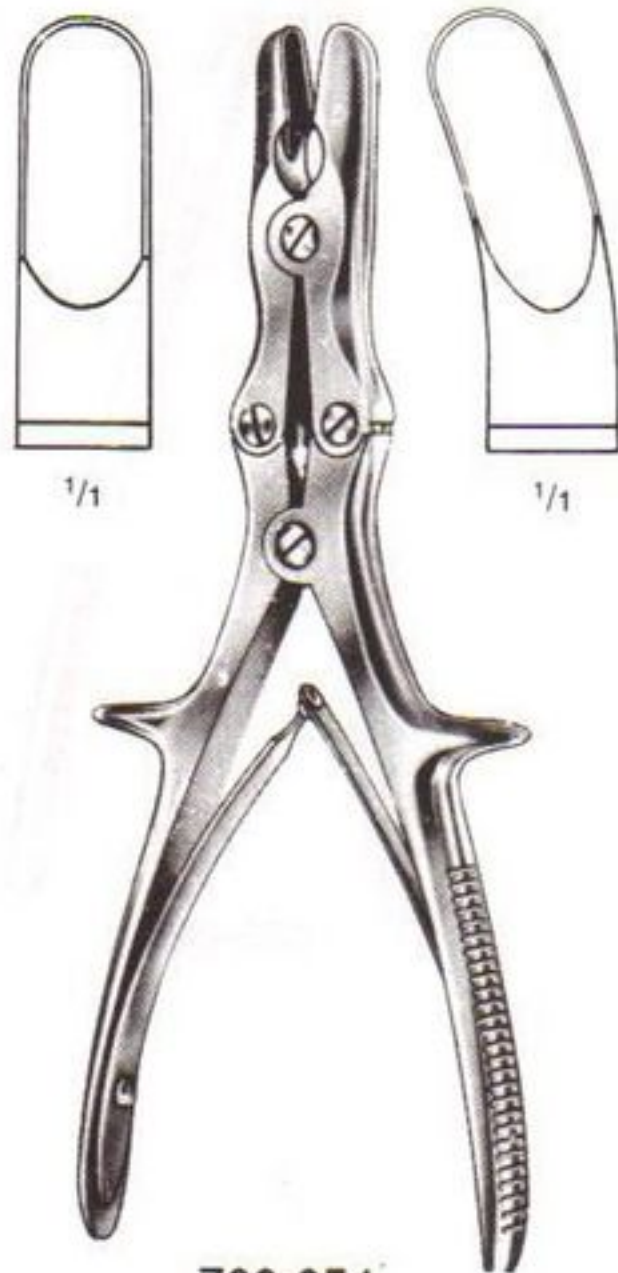
THORACIC INSTRUMENTS

663-609 Stille Rib Shears, 8-1/2"

663-618 Bethune Rib Shears, 13 3/4", Left

663-620 Bethune Rib Shears, 13 3/4", Right

663-622 Davidson Scapula Retractor,
Blade 3-1/2" Wide x 3-1/2" Deep



700-054
700-104



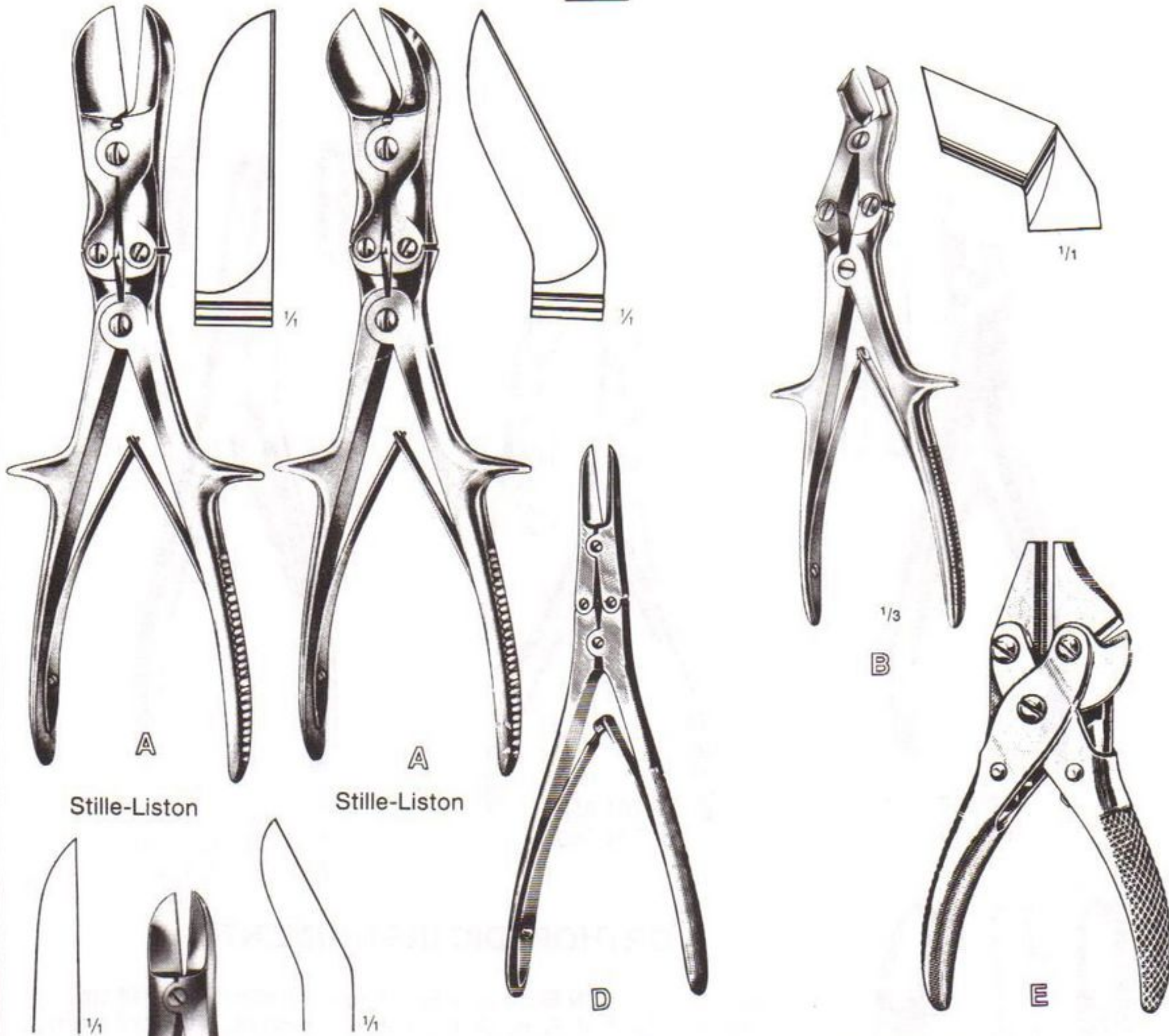
700-153



700-302
700-308

ORTHOPEDIC INSTRUMENTS

- | | |
|---------|---|
| 700-054 | Stille-Luer Rongeur, Double Action, Straight, 8-3/4", 9x15mm Bite |
| 700-104 | Stille-Luer Rongeur, Double Action, Curved, 8-3/4", 9x15mm Bite |
| 700-153 | Stille-Luer (Duckbill) Rongeur, Angled to Side, 9", 6x12mm Bite |
| 700-302 | Leksell Rongeur, 9-1/2", Standard Curve, 3mm Bite |
| 700-308 | Leksell Rongeur, 9-1/2", Standard Curve, 8mm Bite |



ORTHOPEDIC INSTRUMENTS

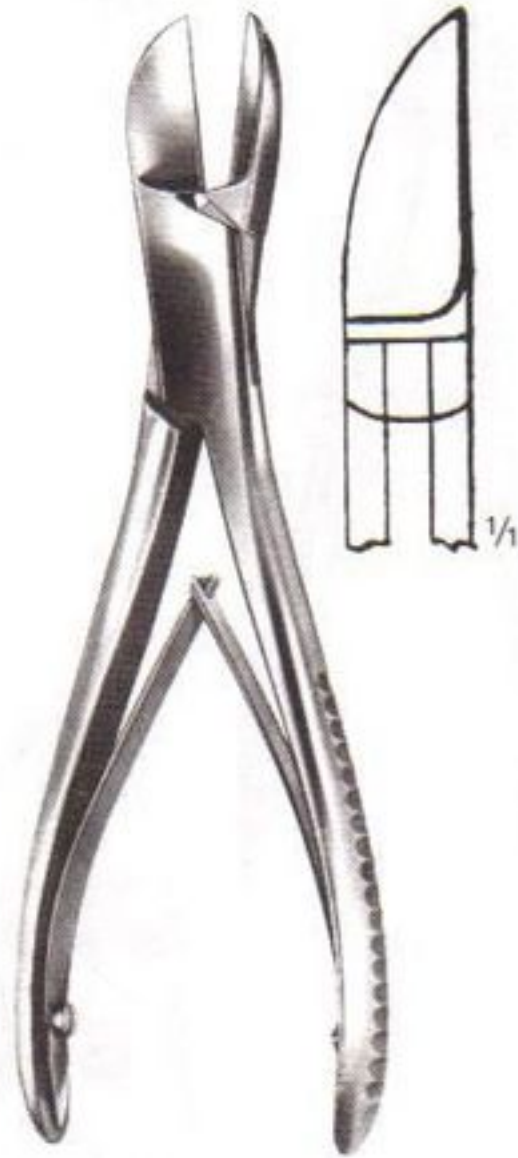
A 700-450 STILLE-LISTON Bone Cutting Forceps, 10-3/4" (27.3 cm), straight
 700-468 STILLE-LISTON Bone Cutting Forceps, 10-3/4" (27.3 cm), curved

B 700-508 Stille-Horsley Bone Cutter 10 1/2", Angled Blades

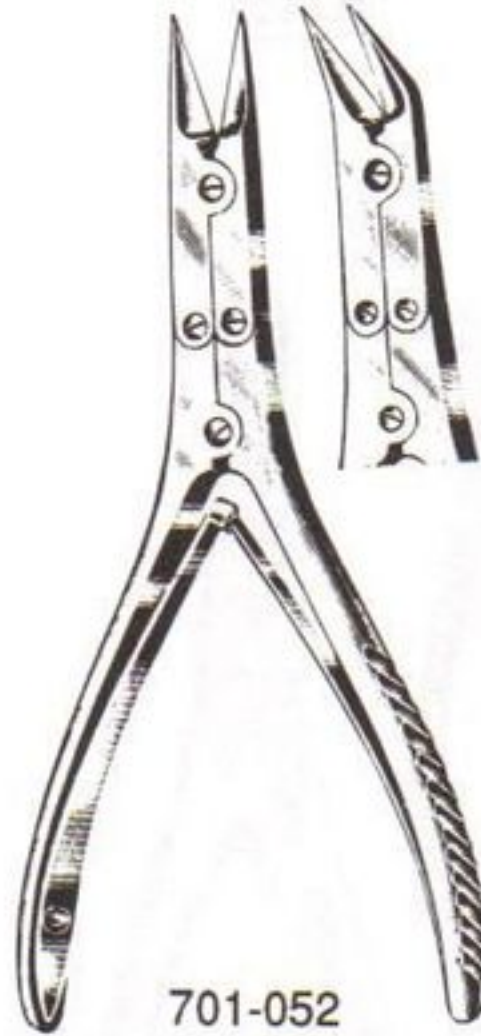
C 700-757 Ruskin-Liston Bone Cutter, Straight, 7-1/2"
 700-765 Ruskin-Liston Bone Cutter, Angled, 7-1/2"

D 700-768 Ruskin Bone Cutting Forceps, 7-1/2" Straight
 Delicate Blades

E 706-585 Double Action Parallel Pliers and
 Wire Cutter 4-1/2" Nickel Plated



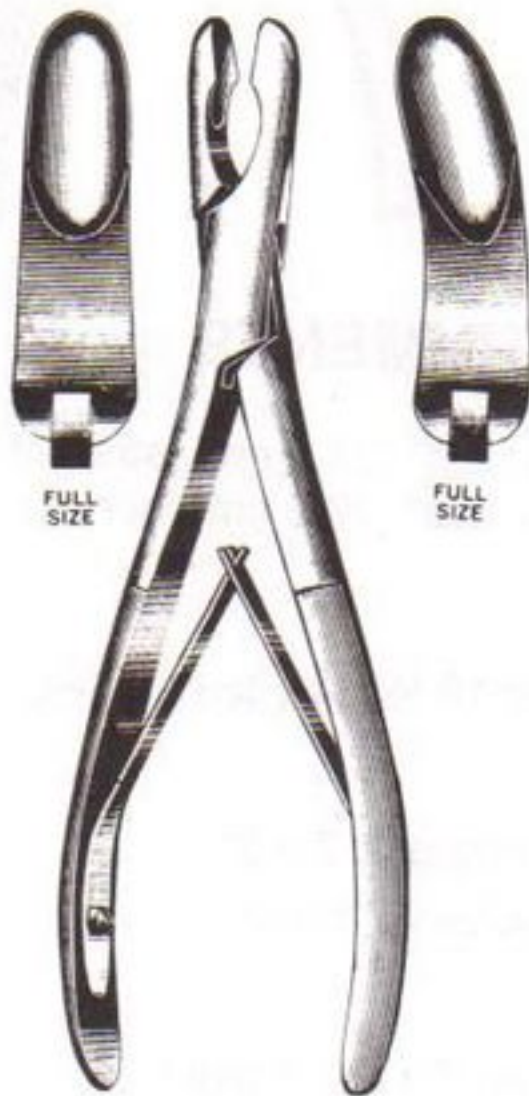
700-807
700-815



701-052
701-060



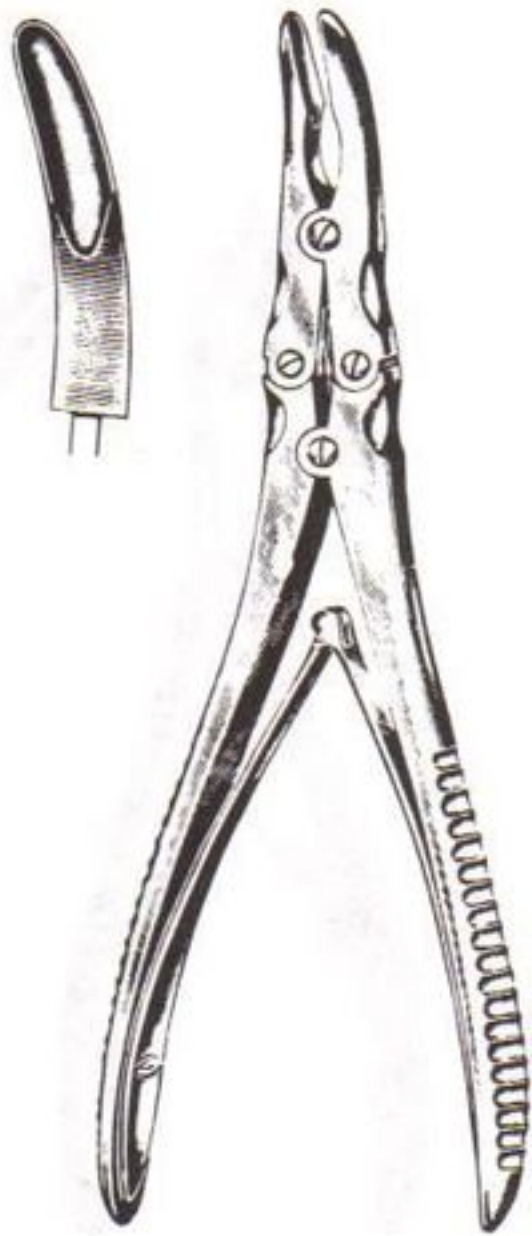
701-230 701-245
701-235 701-250
701-240 701-300



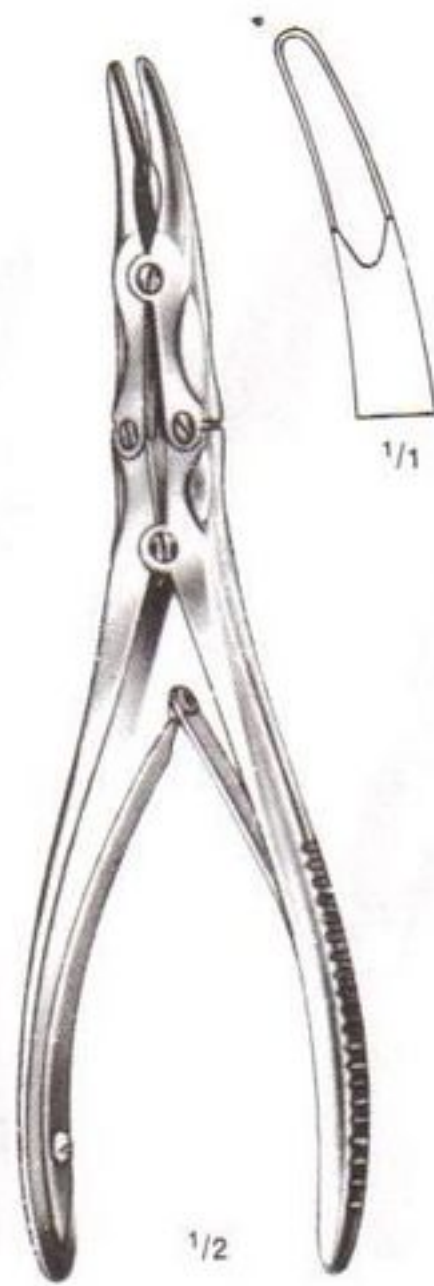
701-508
701-516

ORTHOPEDIC INSTRUMENTS

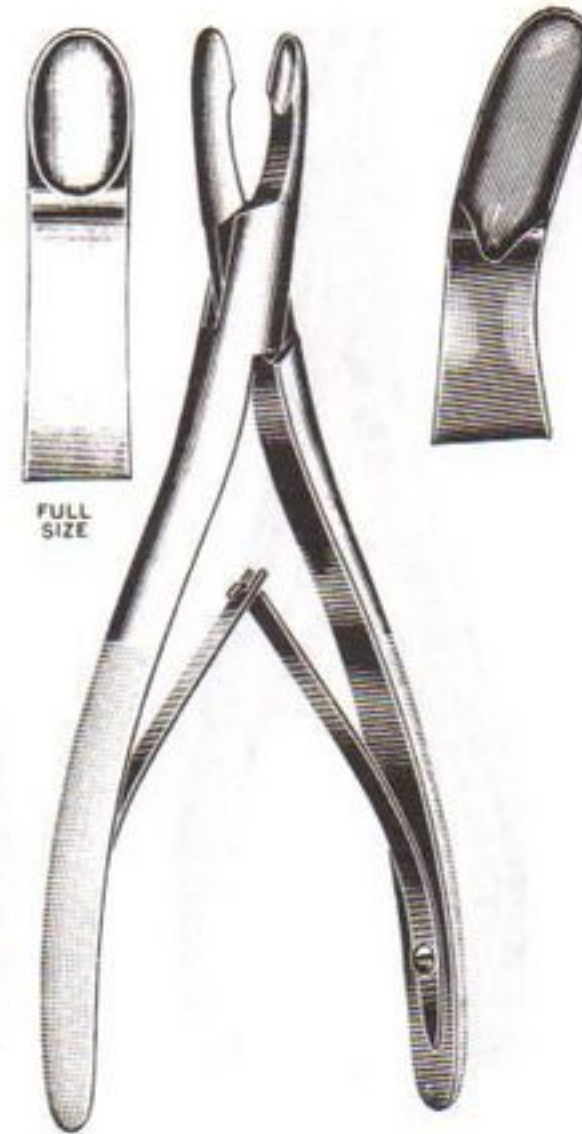
- | | |
|---------|--|
| 700-807 | LISTON Bone Cutting Forceps, straight, 5-1/2" (14 cm) |
| 700-815 | LISTON Bone Cutting Forceps, straight, 7-1/2" (19.1 cm) |
| 701-052 | RUSKIN Bone Splitting Forceps, 5-1/2" (14cm), straight |
| 701-060 | RUSKIN Bone Splitting Forceps, 5-1/2" (14 cm), curved |
| 701-230 | RUSKIN Rongeur, double action, 7-1/4" (18.4 cm) long,
Straight 7 mm bite jaws |
| 701-235 | RUSKIN Rongeur, double action, 7-1/4" (18.4 cm) long,
Straight 5 mm bite jaws |
| 701-240 | RUSKIN Rongeur, double action, 6" (15.2 cm) long,
Straight 3 mm bite jaws |
| 701-245 | RUSKIN Rongeur, double action, 7-1/4" (18.4 cm) long,
Curved 7 mm bite jaws |
| 701-250 | RUSKIN Rongeur, double action, 7-1/4" (18.4 cm) long,
Curved 5 mm bite jaws |
| 701-300 | RUSKIN Rongeur, double action, 6" (15.2 cm) long,
Curved 3 mm bite jaws |
| 701-508 | Luer Rongeur, 7" (17.8 cm), straight jaws 8 mm bite |
| 701-516 | Luer Rongeur, 7" (17.8 cm), curved jaws 8 mm bite |



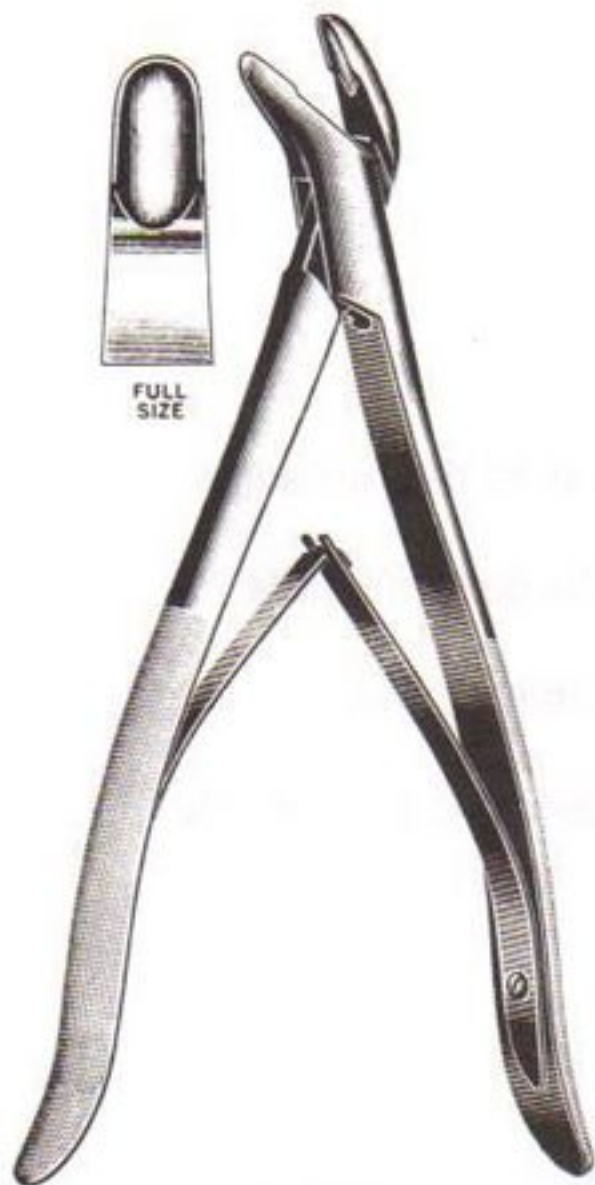
701-904



701-953



702-001



702-050

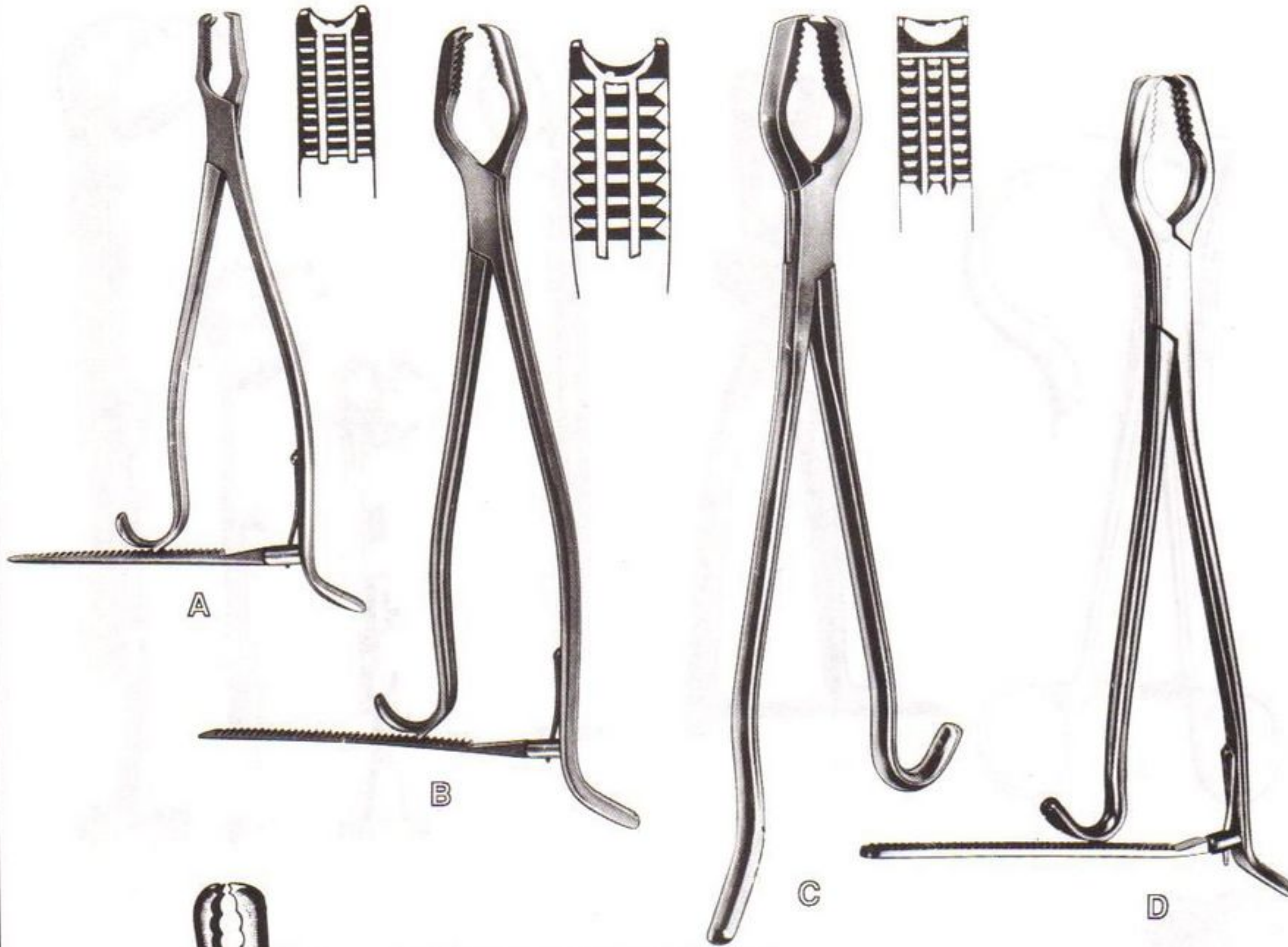
ORTHOPEDIC INSTRUMENTS

- 701-904 ZAUFEL-JANSEN Rongeur, 7" (17.8 cm), D/A, Curved, 5 mm Bite
- 701-953 BEYER Rongeur, 7" (17.8 cm), Double Action, Curved, 3.5mm Bite
- 702-001 ADSON Cranial Rongeur, 8" (20.3 cm), Straight jaws 7 X 13 mm
- 702-002 ADSON Cranial Rongeur, 8" (20.3 cm), curved jaws 7 X 13 mm
- 702-050 BACON Rongeur, 8-1/4" (21 cm), angled on side, 5 mm bite



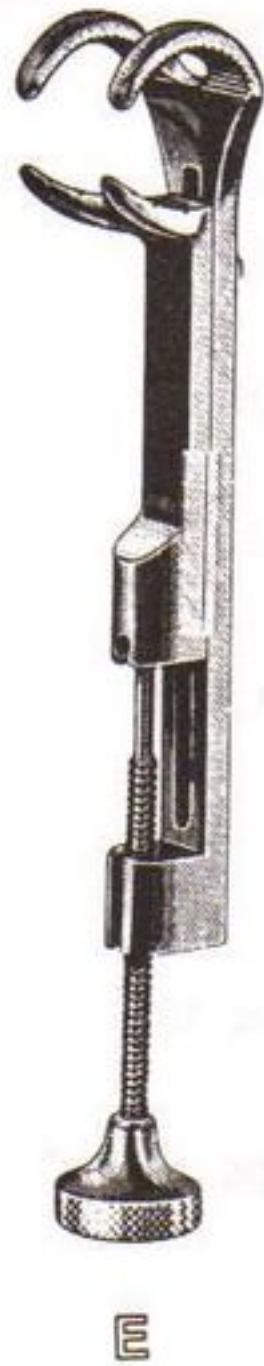
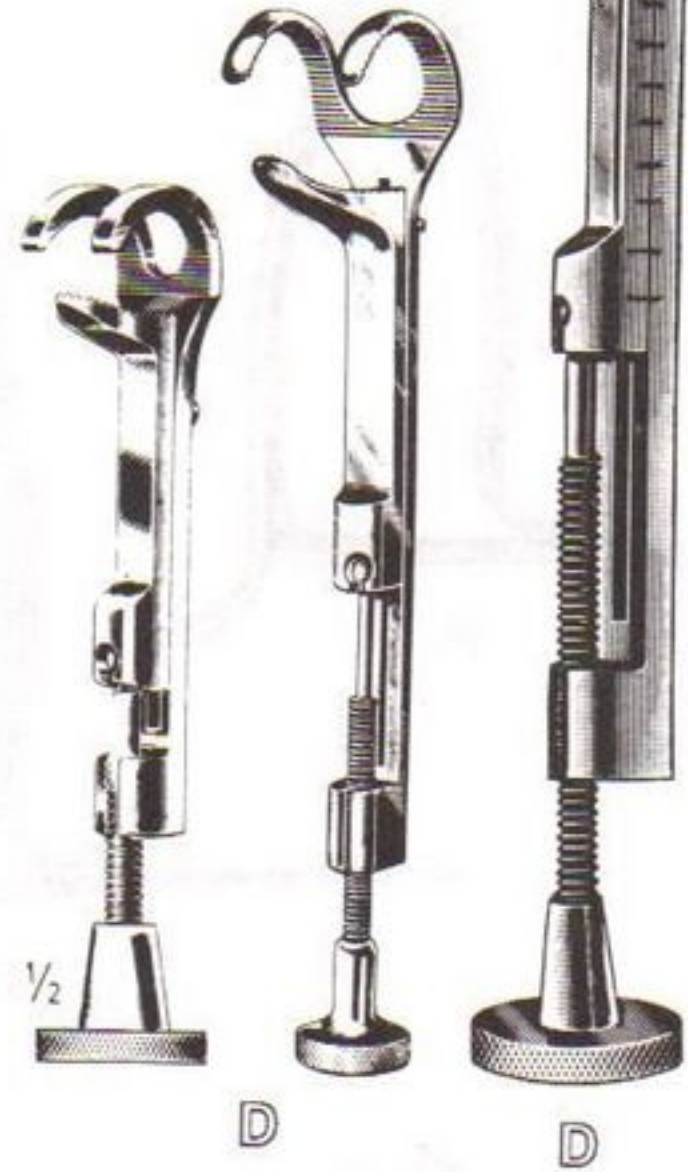
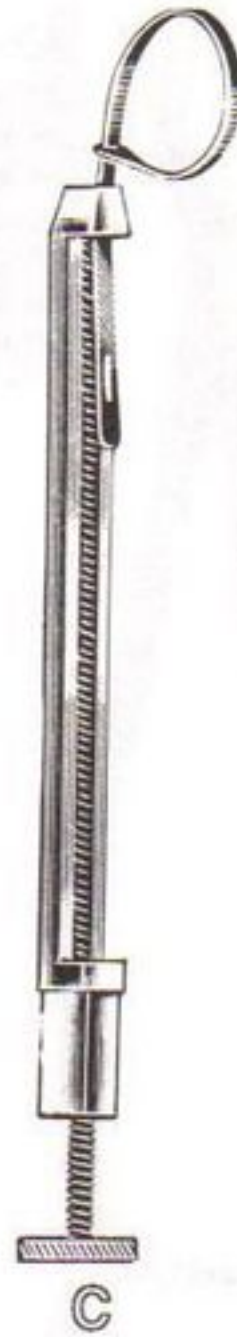
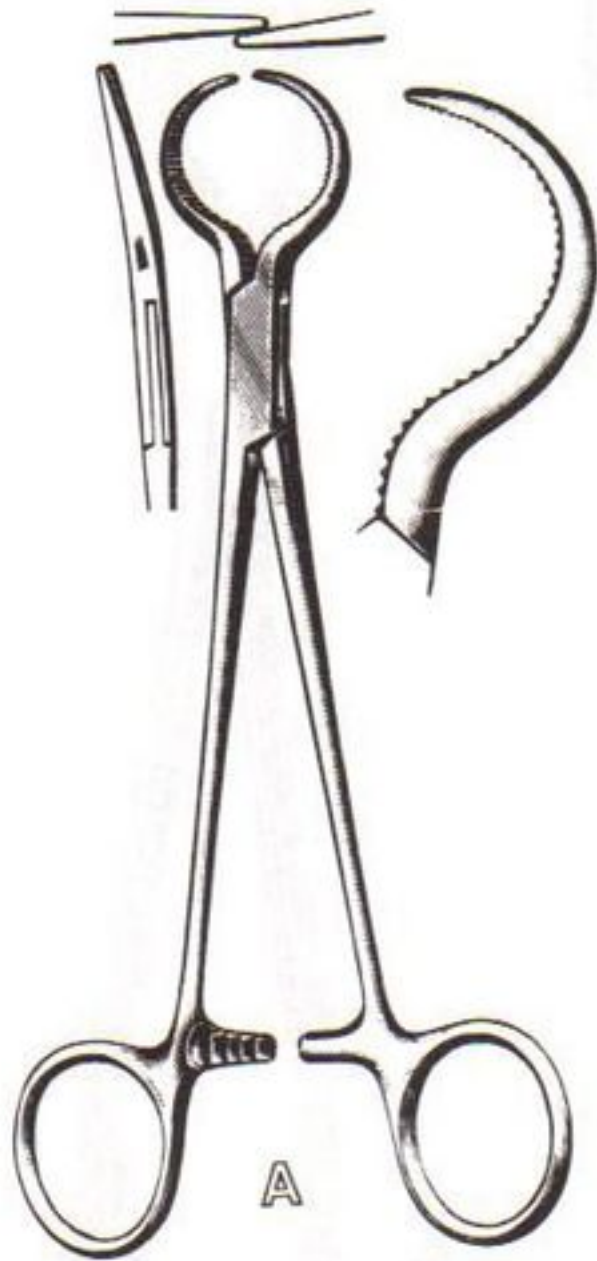
ORTHOPEDIC INSTRUMENTS

- | | |
|---------|--|
| 702-100 | REINER Surgery Rongeur, 7" (17.8 cm), beaks at 30 degree angle |
| 702-159 | MEAD Surgery Ronguer, 6-1/2" (16.5 cm), slightly curved beaks |
| 702-258 | HARTMAN Mastoid Rongeur, 5-3/4" (14.6 cm), strong curve |
| 765-815 | LEMPERT Rongeur, 6-1/4" (15.9 cm), curved, delicate, 2.5 mm bite |



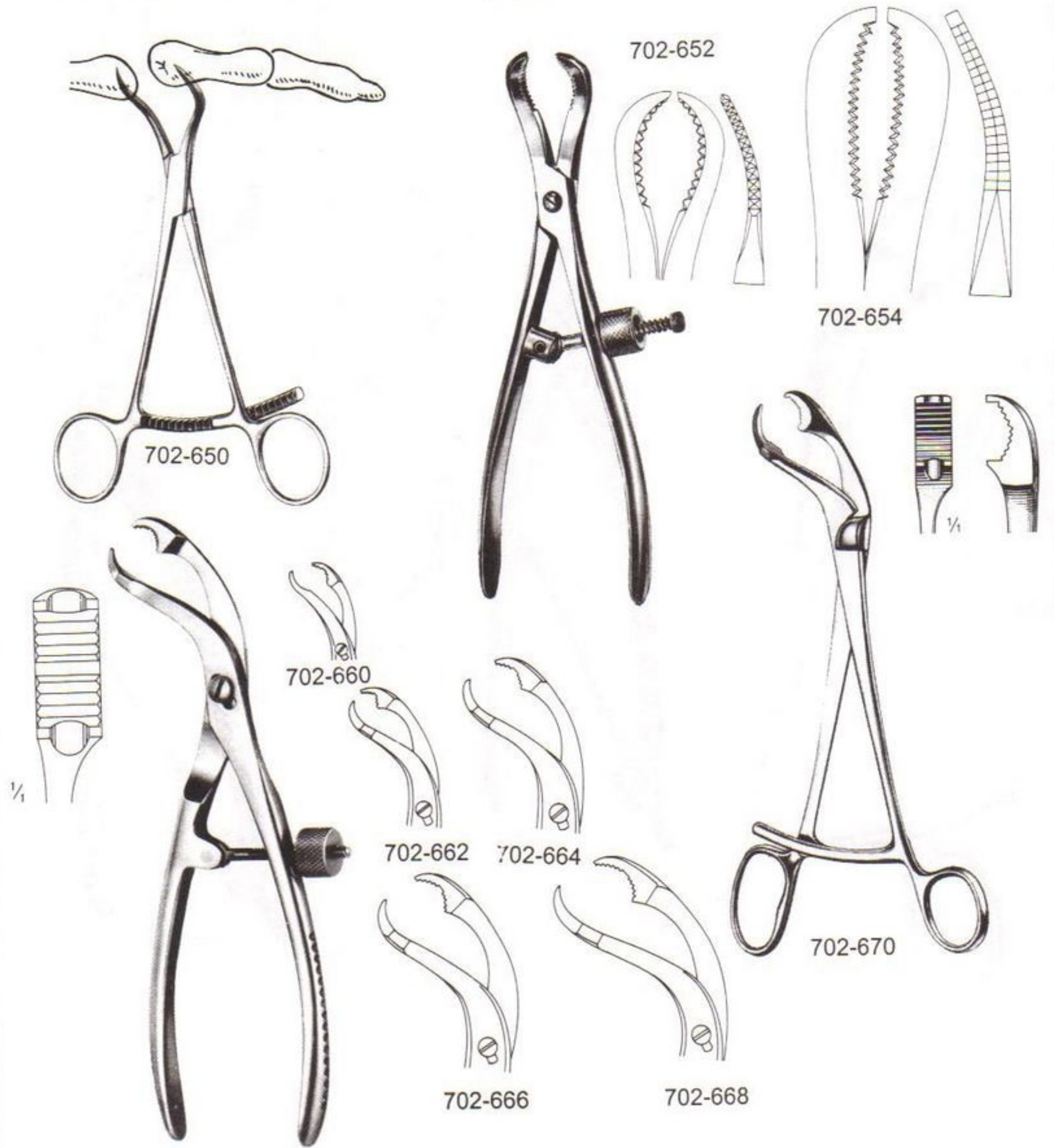
ORTHOPEDIC INSTRUMENTS

- A 702-357 Kern Bone Holding Forceps, with Ratchet, 6"
- B 702-365 Kern Bone Holding Forceps, with Ratchet, 9 1/2"
702-373 Kern Bone Holding Forceps, Plain, 9 1/2"
- C 702-407 Lane Bone Holding Forceps, Plain, 13"
- D 702-415 Lane Bone Holding Forceps, with Ratchet, 13"
- E 702-418 Farabeuf-Lambotte Bone Holding Forceps, 10-1/4"



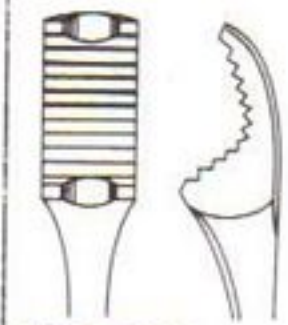
ORTHOPEDIC INSTRUMENTS

- A** 702-456 Lewin Bone Holding Forceps, 7" Serrated
- B** 702-506 Lambotte Bone Holding Forceps, Small, 8-3/4"
702-514 Lambotte Bone Holding Forceps, Medium, 10-3/4"
702-522 Lambotte Bone Holding Forceps, Large, 12-3/4"
- C** 702-555 Parham-Martin Fracture Clamp, Small, 4-3/4"
702-563 Parham-Martin Bands Only
- D** 702-605 Lowman Bone Clamp, 5", Calibrated in 1/8",
1 x 2 Prong Jaws 3/4" Wide
702-613 Lowman Bone Clamp, 7", Calibrated in 1/8",
1 x 2 Prong Jaws 1" Wide
702-621 Lowman Bone Clamp, 8", Calibrated in 1/8",
1 x 2 Prong Jaws 1-1/4" Wide
- E** 702-625 Lambert-Lowman Bone Clamp, 7", 2 x 2 Prong Jaws 1" Wide
702-630 Lambert-Lowman Bone Clamp, 8", 2 x 2 Prong Jaws 1-3/8" Wide

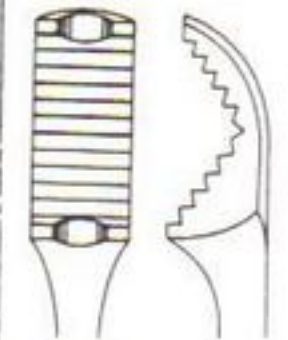


ORTHOPEDIC INSTRUMENTS

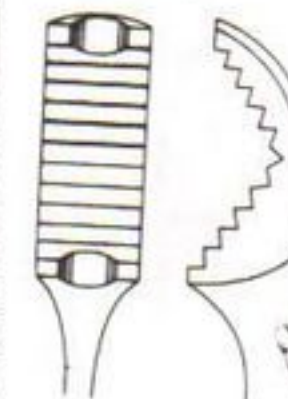
- 702-650 Bone Reduction Forceps, Curved, Pointed Tips, 5-1/2" (14cm)
- 702-652 Bone Reduction Forceps, Curved with Speed Lock, 6-1/4" (15.8cm)
- 702-654 Bone Reduction Forceps, Curved with Speed Lock, 9" (22.9cm)
- 702-660 VERBRUGGE Bone Holding Forceps, Self Centering with Speed Lock, 6" (15.2cm)
- 702-662 VERBRUGGE Bone Holding Forceps, Self Centering with Speed Lock, 7-1/2" (19cm)
- 702-664 VERBRUGGE Bone Holding Forceps, Self Centering with Speed Lock, 9-1/2" (24cm)
- 702-666 VERBRUGGE Bone Holding Forceps, Self Centering with Speed Lock, 10-1/2" (26.7cm)
- 702-668 VERBRUGGE Bone Holding Forceps, Self Centering with Speed Lock, 11" (28cm)
- 702-670 VERBRUGGE Bone Holding Forceps with Short Ratchet, 6-1/4" (15.8cm)



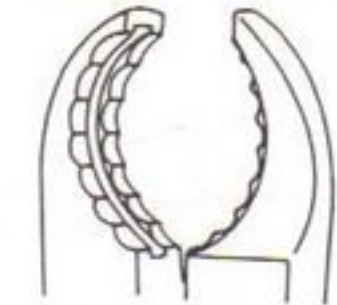
702-672



702-674



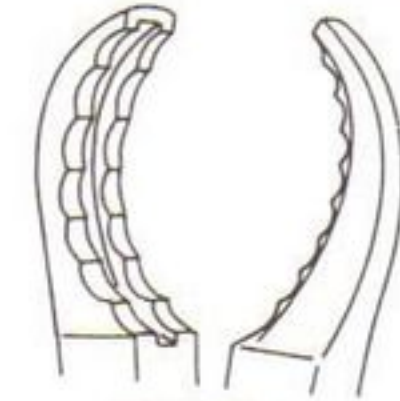
702-676



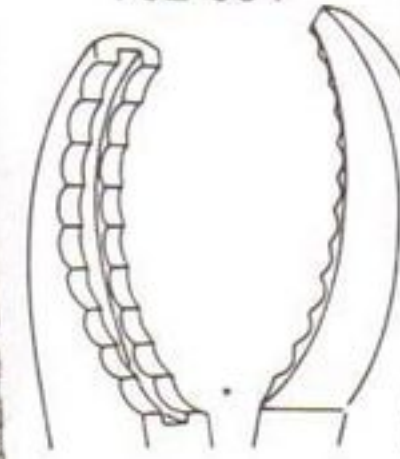
702-682



702-680



702-684



702-686



702-688

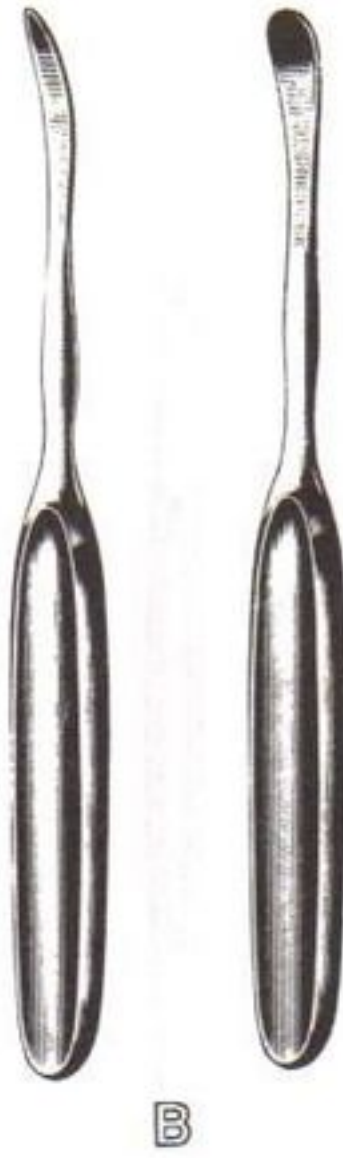
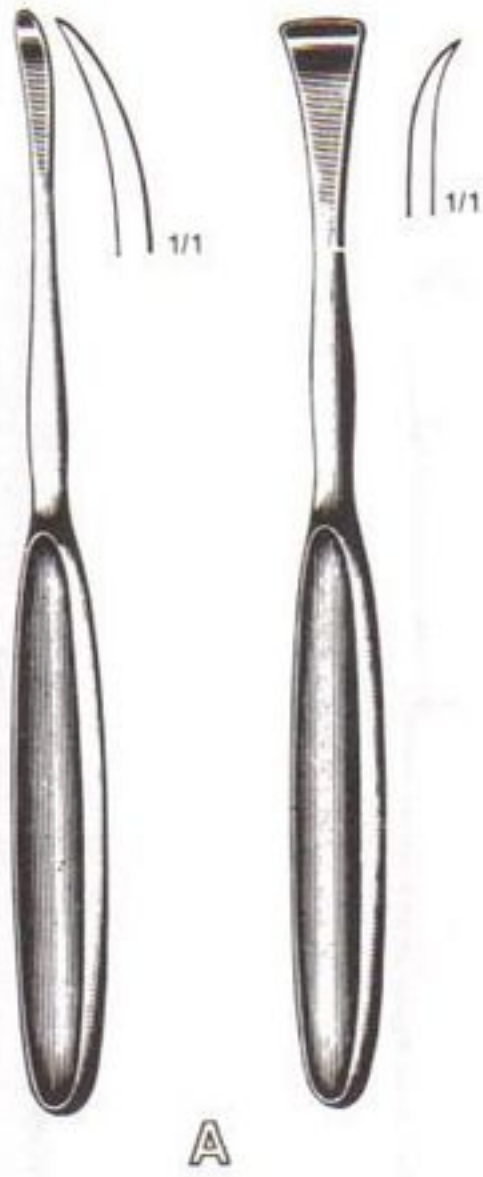
ORTHOPEDIC INSTRUMENTS

- 702-672 VERBRUGGE Bone Holding Forceps with Long Ratchet, 10" (25.4cm)
- 702-674 VERBRUGGE Bone Holding Forceps with Long Ratchet, 10-1/2" (26.7cm)
- 702-676 VERBRUGGE Bone Holding Forceps with Long Ratchet, 11" (27.9cm)

- 702-680 ULRICH Self Retaining Forceps, Straight with Speed Lock, Mini, 7-1/4" (18.4cm)
- 702-682 ULRICH Self Retaining Forceps, Straight with Speed Lock, 9" (22.8cm)

- 702-684 ULRICH Self Retaining Forceps, Straight with Speed Lock, 10" (25.4cm)
- 702-686 ULRICH Self Retaining Forceps, Straight with Speed Lock, 11" (27.9cm)

- 702-688 ULRICH Self Retaining Forceps, Angular with Speed Lock, 11" (27.9cm)



ORTHOPEDIC INSTRUMENTS

- A 702-753 Langenbeck Elevator, Narrow, 7"
702-761 Langenbeck Elevator, Broad, 7"
- B 702-803 Lane Elevator, Narrow, 7"
702-811 Lane Elevator, Broad, 7"
- C 702-852 M.G.H. Elevator, 6-1/2"
- D 702-902 Farabeuf Raspatories, Straight, 6"
702-910 Farabeuf Raspatories, Curved, 6"



A



B



C



D



1/3

E



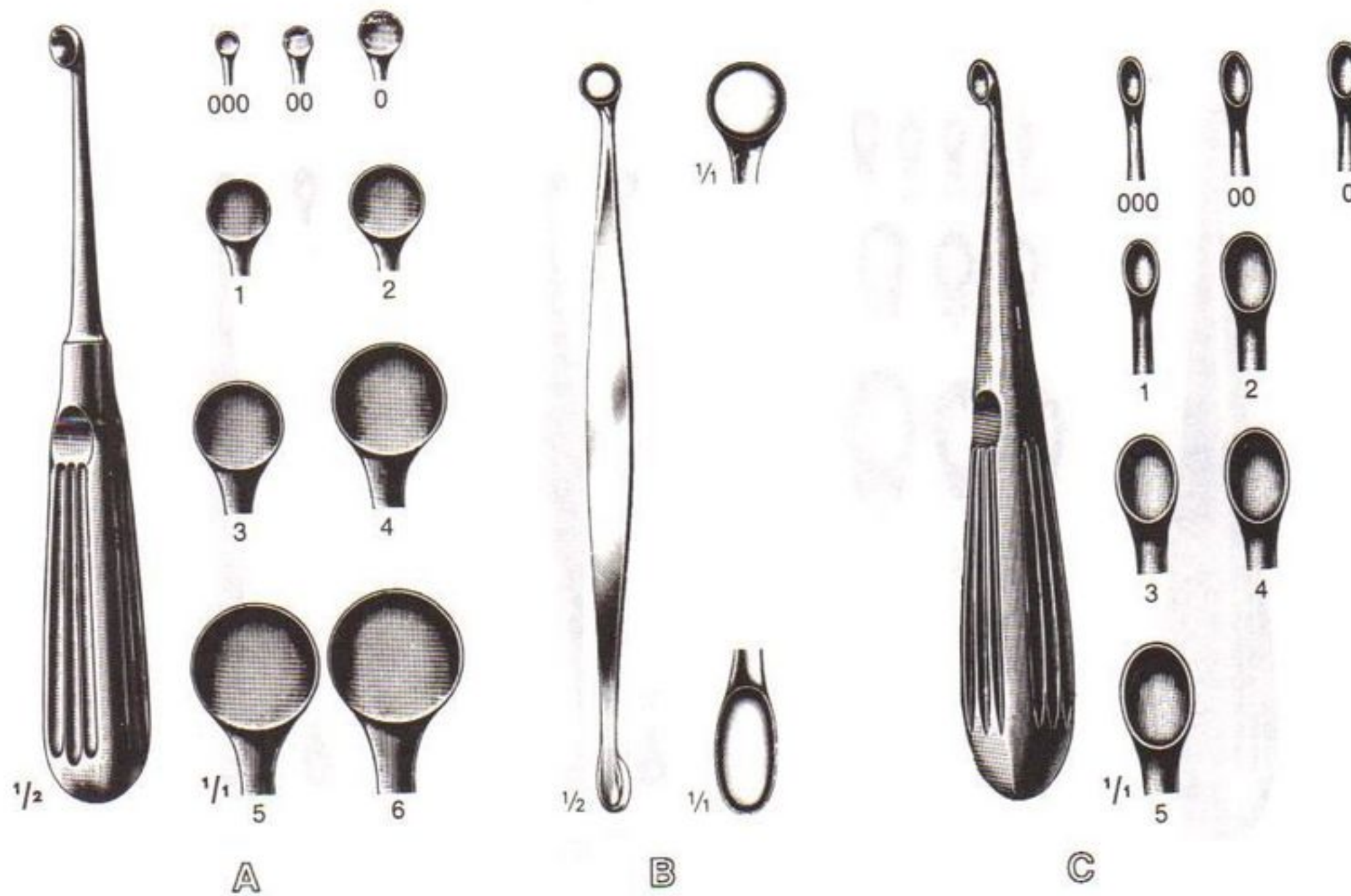
PUTTI



F

ORTHOPEDIC INSTRUMENTS

- | | | |
|----------|---------|--|
| A | 703-256 | KEY Periosteal Elevator, 7" (17.8 cm), 1/8" (.33 cm) wide |
| | 703-264 | KEY Periosteal Elevator, 7" (17.8 cm), 1/4" (.64 cm) wide |
| | 703-272 | KEY Periosteal Elevator, 7-1/2" (19.1 cm), 1/2" (1.3 cm) wide |
| | 703-280 | KEY Periosteal Elevator, 8" (20.3 cm), 3/4" (1.9 cm) wide |
| | 703-298 | KEY Periosteal Elevator, 8-1/4" (21 cm), 1" (2.5 cm) wide |
| B | 703-553 | MURPHY-LANE Bone Skid, 12" (30.5 cm) |
| C | 703-603 | SAYRE Periosteal Elevator, Sharp, 6-3/4" (17.1 cm) |
| | 703-604 | SAYRE Periosteal Elevator, Blunt, 6-3/4" (17.1 cm) |
| D | 703-652 | SEDILLOT Periosteal Elevator, 7-1/2", blade 17 mm wide" |
| E | 703-702 | Bayonet Bone File, 9-3/4" (24.8 cm) |
| F | 703-850 | PUTTI Bone Rasp, 10-1/2" (26.7 cm), flat ends,
one side curved on flat, other one curved sideways |
| | 703-868 | PUTTI Bone Rasp, 12" (30.5 cm),
round and half-round tapered, curved ends |



ORTHOPEDIC INSTRUMENTS

- | | | | | | |
|----------|---------|------------------------------------|----------|---------|--------------------------------|
| A | 703-983 | Bruns Curette, #000, 6-3/4" | C | 704-387 | Hibbs-Spratt Curette, #000, 8" |
| | 703-991 | Bruns Curette, #00, 6-3/4" | | 704-395 | Hibbs-Spratt Curette, #00, 8" |
| | 704-007 | Bruns Curette, #0, 6-3/4" | | 704-403 | Hibbs-Spratt Curette, #0, 8" |
| | 704-015 | Bruns Curette, #1, 6-3/4" | | 704-411 | Hibbs-Spratt Curette, #1, 8" |
| | 704-023 | Bruns Curette, #2, 6-3/4" | | 704-429 | Hibbs-Spratt Curette, #2, 8" |
| | 704-031 | Bruns Curette, #3, 6-3/4" | | 704-437 | Hibbs-Spratt Curette, #3, 8" |
| | 704-049 | Bruns Curette, #4, 6-3/4" | | 704-445 | Hibbs-Spratt Curette, #4, 8" |
| | 704-056 | Bruns Curette, #5, 6-3/4" | | 704-452 | Hibbs-Spratt Curette, #5, 8" |
| | 704-064 | Bruns Curette, #6, 6-3/4" | | 704-460 | Hibbs-Spratt Curette, #6, 8" |
|
 | | | | | |
| B | 704-155 | Bone Curette, Double Ended, 5" | | | |
| | 704-163 | Bone Curette, Double Ended, 6-1/2" | | | |



ORTHOPEDIC INSTRUMENTS



A



B



C

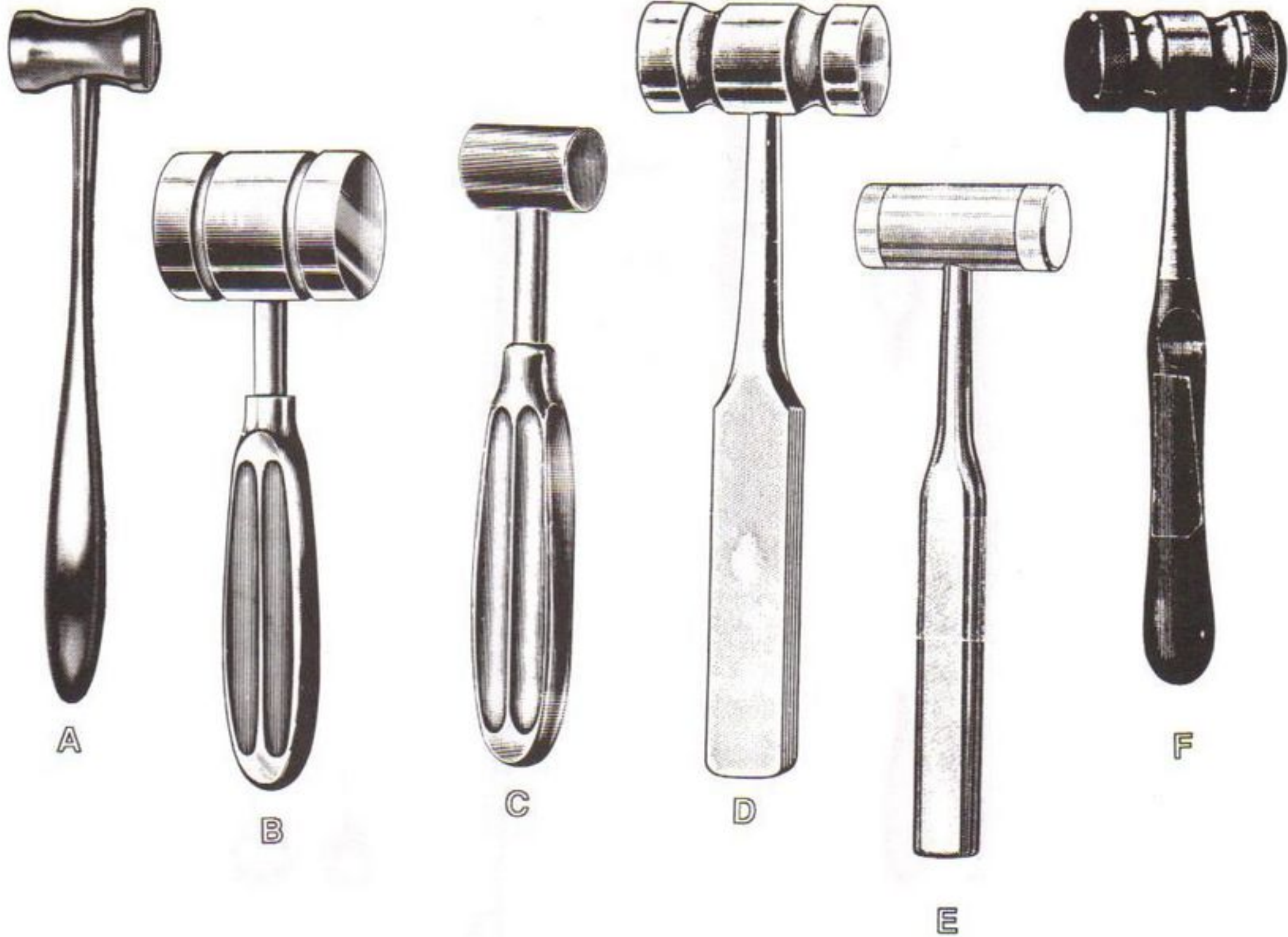
STRATT (BRUN) BONE CURETTES 6 1/2" (16.5CM) OVAL CUPS

A	704-470	Size 5/0	704-482	Size 2
	704-472	Size 4/0	704-484	Size 3
	704-474	Size 3/0	704-486	Size 4
	704-476	Size 2/0	704-488	Size 5
	704-478	Size 0	704-490	Size 6
	704-480	Size 1		
B	461-301	Martini Bone Curette 1 1/2" (14 cm), Double End 4 mm and 5 mm Round Cups		
C	704-495	Williger Bone Curette 5 1/2" (14 cm), Double End, 3 mm and 4 mm Oval Cups		



ORTHOPEDIC INSTRUMENTS

- A** 704-500 Volkman Double End Curette, 5 ½" (14cm) Long, Oval Cups 5mm x 10mm and 8mm x 20mm
- B** 704-505 Volkman Double End Curette, 5" (12.7cm) Long, Oval Cup 6mm x 10mm and Round Cup 7mm Dia.
- C** 704-510 Volkman Double End Curette 6 ½" (16.5cm) Long, Oval Cup 8mm x 14mm and Round Cup 10mm Dia.
- D** 704-515 Bunnell Tendon Stripper 6" (15.2cm) 3mm
- 704-520 Bunnell Tendon Stripper 6" (15.2cm) 4mm
- 704-525 Bunnell Tendon Stripper 6" (15.2cm) 5mm
- 704-530 Bunnell Tendon Stripper 6" (15.2cm) 6mm
- 704-535 Bunnell Tendon Stripper 6" (15.2cm) 7mm



ORTHOPEDIC INSTRUMENTS

- A 704-650 Lucae Mallet 7 3/4", Head 9oz, Solid Stainless
- B 704-675 Crane Mallet, Chrome, Small, 6-1/2"
704-700 Crane Mallet, Chrome, Large, 6-1/2"
- C 704-858 Gerzog Mallet 7-1/2", head 8 oz. lead filled with stainless jacket
- D 704-958 Orthopedic Mallet, head 16 oz. solid, stainless, 11"
704-959 Orthopedic Mallet, head 32 oz. solid, stainless, 11"
- E 704-960 Mallet, 7-1/2" Lightweight 7.5 oz. - Stainless Head, 1" Diameter
With 2 Replaceable Nylon Caps
- F 704-962 Mead Mallet, 7-1/2" with Replaceable Nylon Caps
Weight: 12 oz. Head Diameter: 20mm
- G 824-003 Hajek Mallet, 16mm Bronze Head, 8 oz., 8-1/4"





ORTHOPEDIC INSTRUMENTS

MALLETS

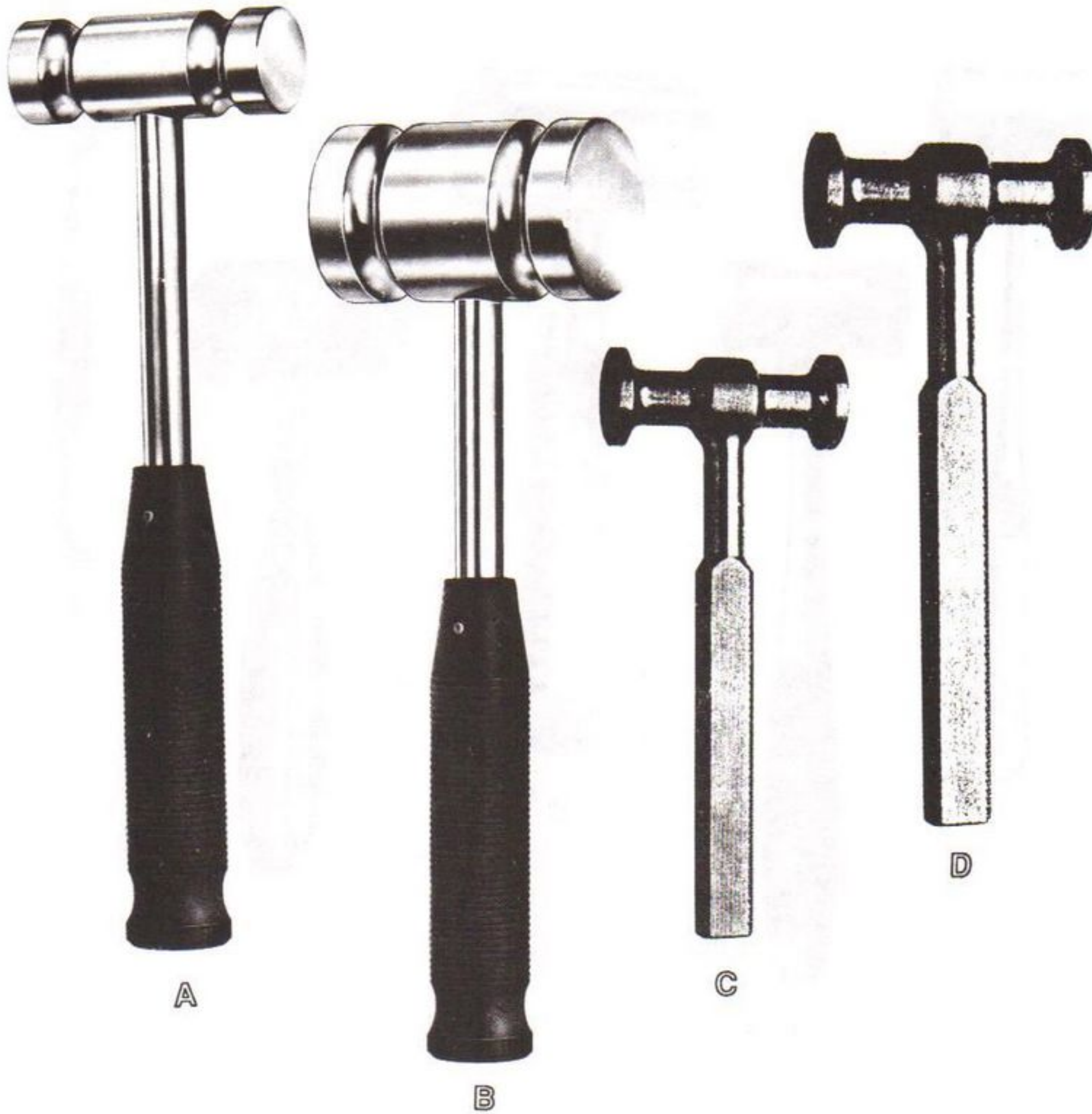


- A** 704-964 Williger Bone Mallet, Lead Filled Head, 350grams – 13 ozs, 30mm Diam., (24cm) – 9 ½”
- B** 704-966 Mallet, Solid, 490 Grams – 1lb, 2 ozs, 28mm Diam., (23cm) – 9”
- C** 704-968 Heath Mallet Heavyweight, w/Anodized Aluminum Handle, Weight: 28 ozs, Head Diameter: 40mm, 7 ½”
- D** 704-970 Kirk Mallet, Weight: 24 ozs, Head Diameter: 1 ½”. 7 ¾”
- E** 704-972 Post Mortem Hammer 9 ½” (24.1cm), w/Hook Handle

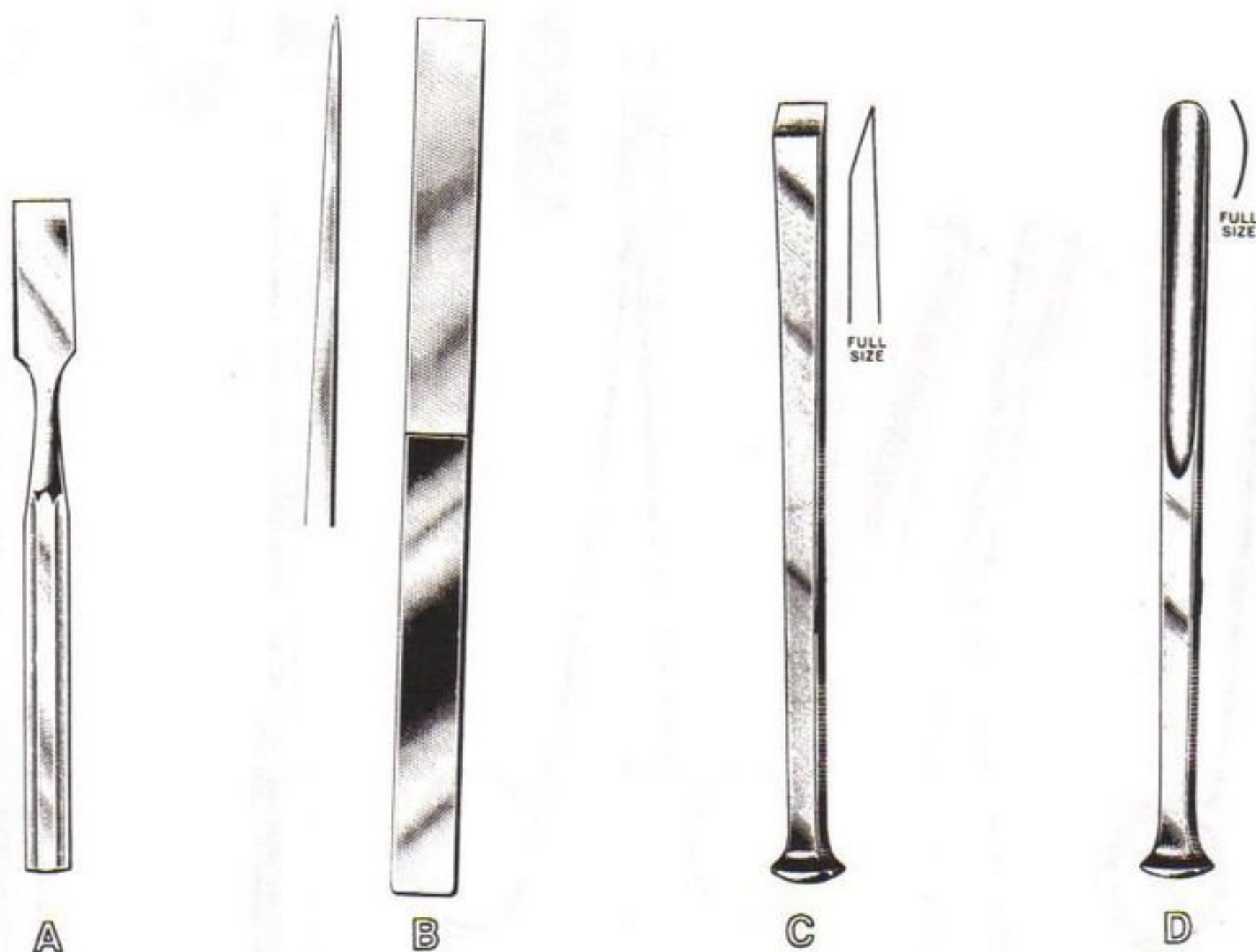


ORTHOPEDIC INSTRUMENTS

MALLETS

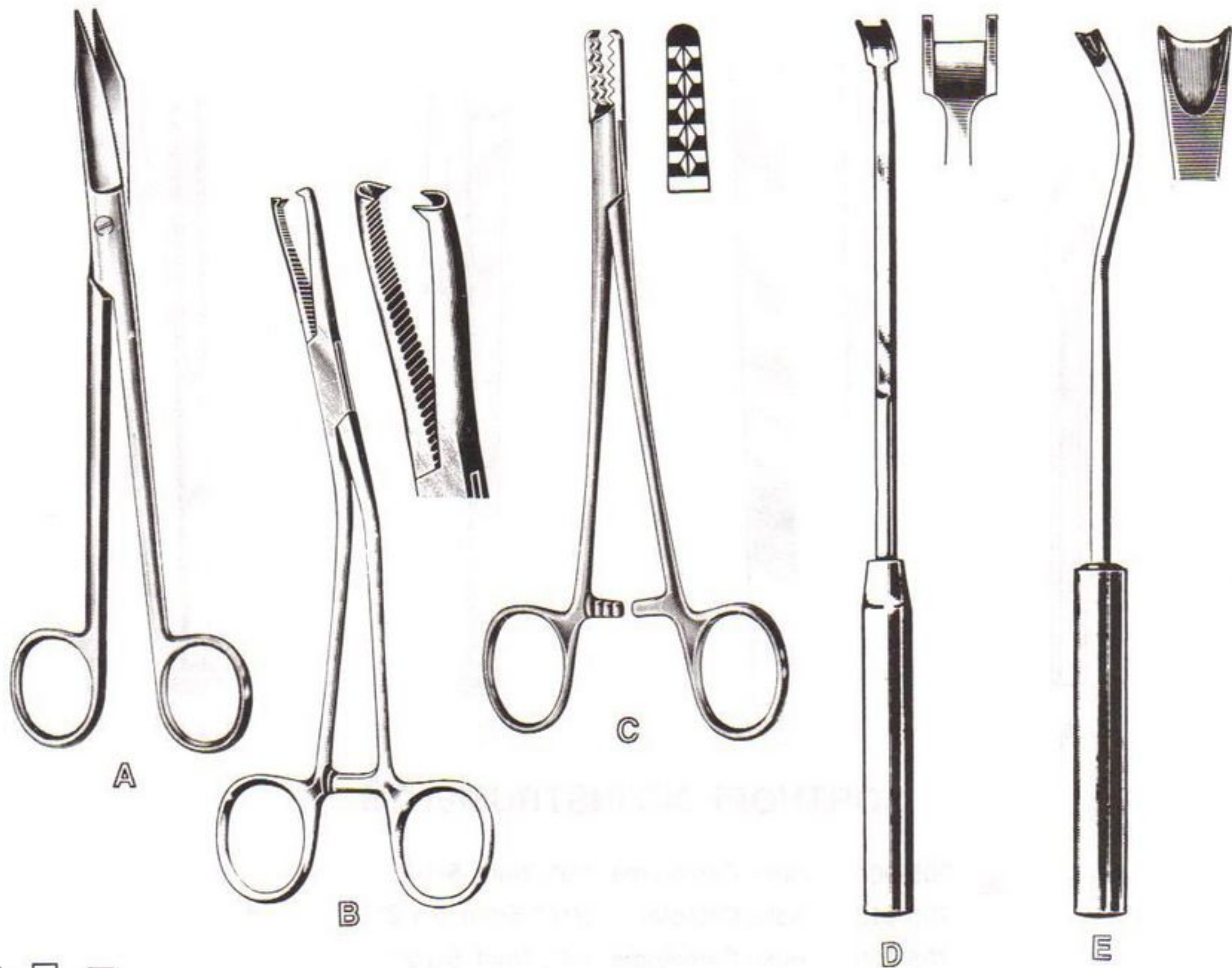


- A** 704-974 Phenolic Handle Mallet, Weight: 1lb, Head Diameter: 1 1/4", 11"
- B** 704-976 Phenolic Handle Mallet, Weight: 2lbs, Head Diameter: 1 3/4", 11"
- C** 704-978 Orthopedic Mallet, Head 1 3/16" (3cm) Diameter, Weight: 2lbs
Overall Length 7 3/16" (18.3cm)
- D** 704-980 Orthopedic Mallet, Head 1 4/5" (3.8cm) Diameter, Weight: 2lbs
Overall Length 7 -9/16" (19.3cm)



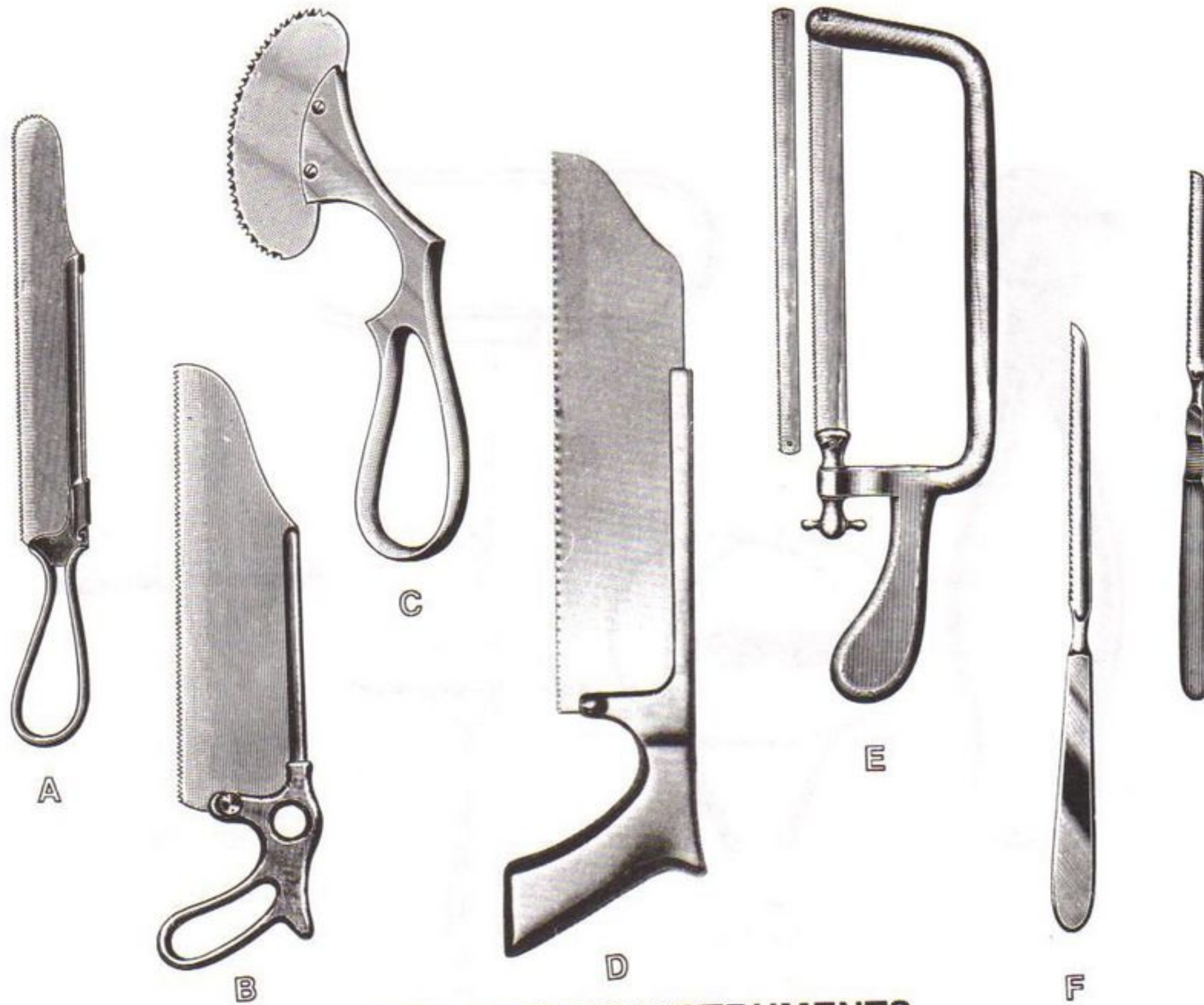
ORTHOPEDIC INSTRUMENTS

- | | | |
|---|---------|--------------------------------------|
| A | 705-004 | Hoke Osteotome, 1/8", 3mm, 5-1/2" |
| | 705-012 | Hoke Osteotome, 3/16", 5mm, 5-1/2" |
| | 705-020 | Hoke Osteotome, 1/4", 7mm, 5-1/2" |
| | 705-038 | Hoke Osteotome, 5/16", 8.5mm, 5-1/2" |
| | 705-046 | Hoke Osteotome, 3/8", 10mm, 5-1/2" |
| | 705-053 | Hoke Osteotome, 1/2", 12mm, 5-1/2" |
| B | 705-301 | Lambotte Osteotome, 1/4", 6mm, 9" |
| | 705-319 | Lambotte Osteotome, 1/2", 12mm, 9" |
| | 705-327 | Lambotte Osteotome, 3/4", 19mm, 9" |
| | 705-335 | Lambotte Osteotome, 1", 25mm, 9" |
| | 705-343 | Lambotte Osteotome, 1-1/2", 37mm, 9" |
| C | 705-400 | U.S.A. Pattern Chisel, 6mm, 6-1/4" |
| | 705-418 | U.S.A. Pattern Chisel, 12mm, 6-1/4" |
| | 705-426 | U.S.A. Pattern Chisel, 18mm, 6-1/4" |
| D | 705-509 | U.S.A. Pattern Gouge, 6mm, 6-1/4" |
| | 705-517 | U.S.A. Pattern Gouge, 10mm, 6-1/4" |
| | 705-525 | U.S.A. Pattern Gouge, 14mm, 6-1/4" |



ORTHOPEDIC INSTRUMENTS

- A 705-558 Martin Cartilage Scissors, Serrated Blades, 8"
- 705-574 Martin Cartilage Scissors, Smooth Blades, 8"
- B 705-608 Dingman Cartilage Clamp, 7 1/2"
- C 705-657 Martin Cartilage Clamp, 7 1/2"
- D 705-707 Lowe-Breck Cartilage Knife, 10 1/2" (26.7 cm) Straight Edge with Guards
- E 705-710 Downing Cartilage Knife, 10" (25.4 cm), Concave Edge with Guards
- F 705-715 Smillie Cartilage Knife, 6 3/4" (17.1 cm), Straight Edge
- 705-720 Smillie Cartilage Knife, 6 3/4" (17.1 cm), Left
- 705-725 Smillie Cartilage Knife, 6 3/4" (17.1 cm), Right



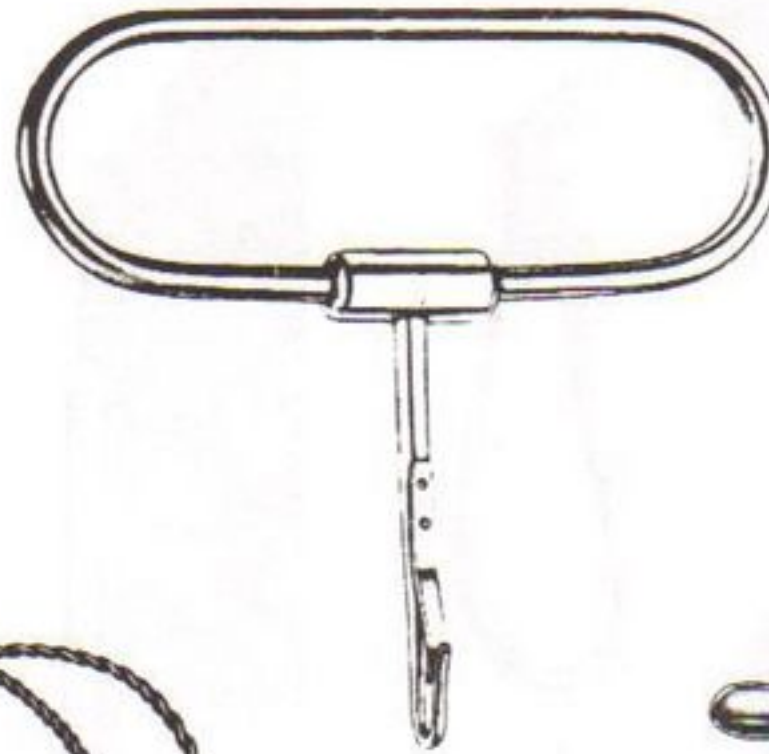
ORTHOPEDIC INSTRUMENTS

- | | | |
|---|---------|---|
| A | 705-806 | Charriere Bone Saw 8" Blade, Chrome Handle, 11 1/2" |
| | 705-810 | Charriere Bone Saw 9 1/2" Blade, Chrome Handle, 14" |
| B | 705-812 | Satterlee Bone Saw 9" Blade, Chrome Handle, 12" |
| | 705-814 | Satterlee Bone Saw, Blade Only 9" |
| C | 705-820 | Engel Cast Saw, 6" (15.2cm) |
| D | 705-824 | Satterlee Bone Saw 12" (30.5cm), Light Metal Handle with Stainless Blades |
| | 705-825 | Blade for No. 705-824 Satterlee Saw |
| E | 705-830 | Charriere Bone Saw 14" (35.6cm) with one each 12mm and 18mm Stainless Blade |
| | 705-832 | 12mm Wide Blade for No. 705-830 Saw |
| | 705-834 | 18mm Wide Blade for No. 705-830 Saw |
| F | 705-836 | Langenbeck Metacarpel Saw 9 1/4" (23.5cm), Blade 4 1/2" (11.4cm) Long |
| G | 705-840 | Fine Bone Saw 6" (15.2cm), Blade 2" (5.1cm) |



706-051

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706-259



706-101
706-119
706-127



706-300



706-309



706-505

ORTHOPEDIC INSTRUMENTS

- 706-051 "Diamond" Pin and Wire Cutter, 6 1/2" (16.5cm), cuts up to 2mm, 5/8 Diameter Hard Wire Stainless
- 706-101 Gigli Saw 12" (30.5cm), Standard Twisted Wire Type
- 706-119 Gigli Saw 20" (50.5cm), Standard Twisted Wire Type
- 706-127 Gigli Saw 30" (76.2cm), Standard Twisted Wire Type
- 706-259 Gigli-Strully Saw Handle, Loop Grip, Rigid, with Snap Lock
- 706-300 Gigli-Strully Saw Handle, T-Shape, Turnable, with Snap Lock
- 706-309 Gigli Saw Handle, Standard Pattern, T-Shape, Turnable
- 706-505 Fine Canulated Pin and Wire Cutter, 7 1/2" (19.1cm), End Cutting up to 3.2mm (1/4") Soft Wire or 1.6mm (1/16") Hard Wire