



Al Fazeelat
Corporation

High Quality Orthopedic Instruments



ISO:9001 13485



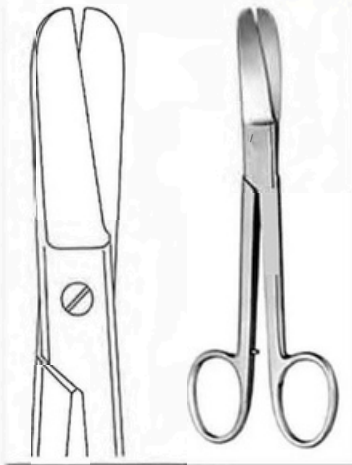
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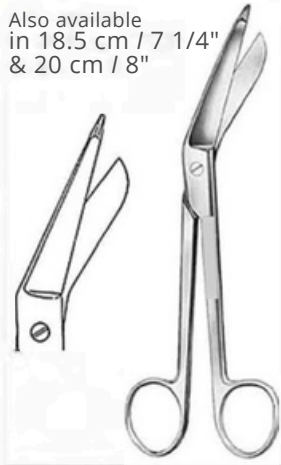
🌐 Website: www.alfazeelatcorp.com

📍 Address: Wazirabad Road, Raheem Pur, Ugoki
Sialkot, PAKISTAN

www.alfazeelatcorp.com

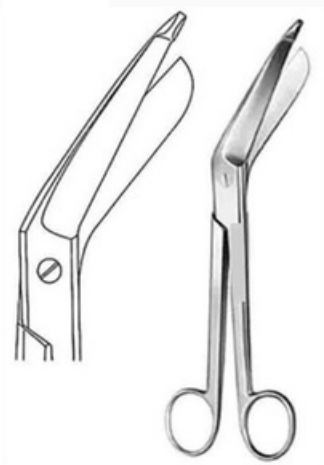


50-100-23
Lorenz Bandage Scissors
Heavy Pattern (23 cm / 9")



Also available
in 18.5 cm / 7 1/4"
& 20 cm / 8"

50-101-14
Lister Bandage Scissors
14.5 cm / 5 3/4"



50-102-23 Bergmann
Plaster Shears
Heavy Pattern
23.5 cm / 9 1/4"

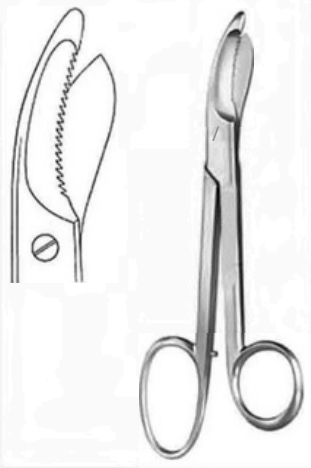


50-103-20
Esmarch Plaster Shears
Heavy Pattern, Short Blades
20 cm / 8"



Also available
in 18cm / 7 1/2"

50-104-16
Bandage Scissors
16 cm / 6 1/4"
Black Plastic Rings



50-105-24
Bruns Plaster Scissors
24 cm / 9 1/2"
One Serrated Cutting Edge



B: 26 cm / 10"
C: 38 cm / 15"

50-106-00
Stille-Martin
Plaster Shears
A: 23 cm / 9"



50-107-15
Engel Plaster Saw 15.5 cm / 6"



50-108-20 Hopkins
Plaster Knife
20 cm / 8"
with Wooden Handle



50-109-18
Esmarch
Plaster Knife
18 cm / 7"



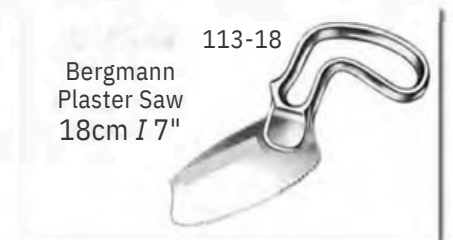
50-110-18
Reiner
Plaster Knife
18 cm / 7"



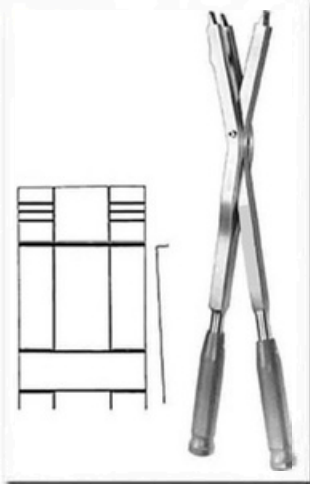
50-111-21
Martin
Plaster Knife
21 cm / 8 1/4"



112-15
Engel Plaster Saw 15.5 cm / 6"



113-18
Bergmann
Plaster Saw
18cm / 7"



50-114-48
Hermann Plaster Spreader
48 cm / 19" Heavy Pattern



50-115-28
Hennig Plaster Spreader
28 cm / 11"



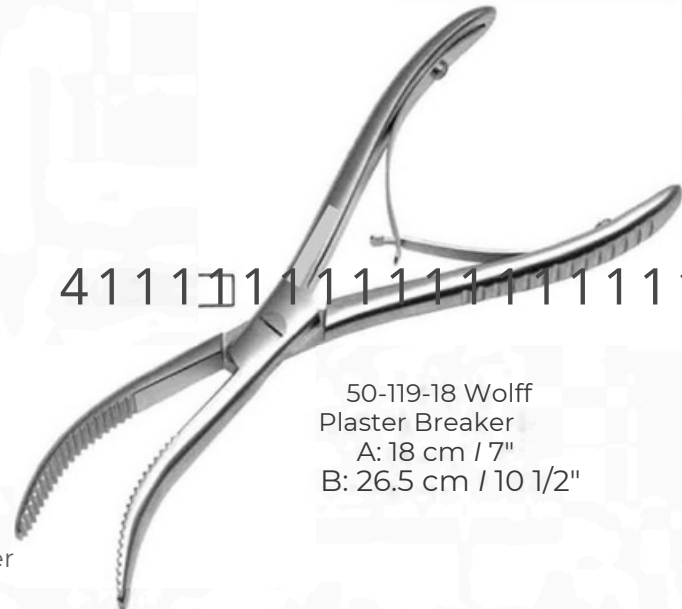
50-116
Hennig
Plaster Spreader
30 cm / 12"



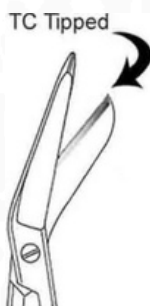
0- 117 3- 0
Beeson Plaster Spreader
1.5 In Blade
30 cm / 12"



50-118-23
Walton Plaster Spreader
w/Spring 3 Prongs
23 cm 19"

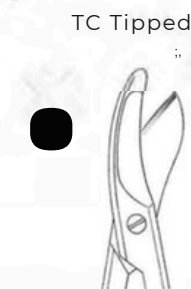


50-119-18 Wolff
Plaster Breaker
A: 18 cm / 7"
B: 26.5 cm / 10 1/2"



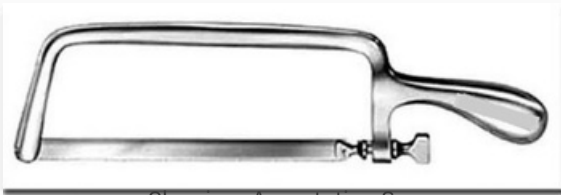
Also Available
in Non TC
Version

50 -1201-8-TC
Lister
Bandage Scissors
TC / Handle gold
18 cm / 7"

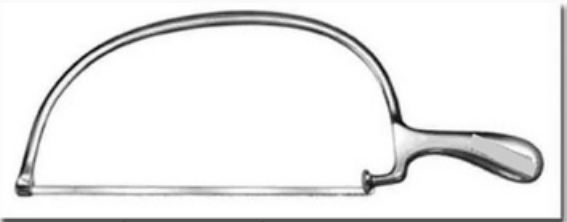


50-121-24-TC
Bruns
Plaster Scissors
24 cm / 9 1/2"
Also Available
in Non TC
Version





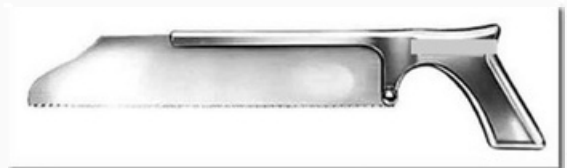
50 -122-00 Charriere Amputation Saw
35 cm I 13 3/4"
21.5 cm I 8 3/4" 12mm
wide 21.5 cm I 8 3/4" 15mm wide 21.5 cm I 8 3/4" 18mm wide



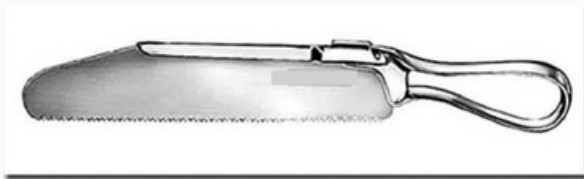
50 -123-00 Bl ER Amputation Saw
40.5 cm I 16"
27 cm I 10 3/4" 4mm wide
27 cm I 10 3/4" 6mm wide
27 cm I 10 3/4" 8mm wide



50-124-24 Langenbeck Amputation Saw
24.5 cm I 9 3/4"



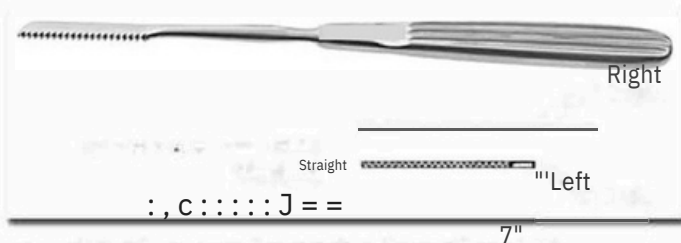
50-125-29 Satterlee Amputation Saw 29 cm I 11 1/2"
Also: Spare Saw Blade Available in 20 cm I 8 1/4" Size



50 -126-27 Charriere Amputation Saw 27 cm I 10 1/2"



50 -127-23 Satterlee Amputation Saw 23 cm I 9"



50 -128-18 Joseph Amputation Saw 18 cm I



50-129-30 Percy Amputation Shield 30 cm I 12"

50-130-00

A: Gigli Saw 30 cm

B: Gigli Saw 50cm C: Tyler Gigli Saw (Large Cut) 30cm D: Tyler Gigli Saw (Large Cut) 30cm



Gigli Saw Handles LOOP



50-131-00 Gigli Pair 50-132-01 Struly Gigli Sold in Pair



50-133-02 Gigli i Sold in Pair

50- 134-03 Struly Gigli Sold in Pair

ZM-50-135-30 BAILEY Gigli Saw Guide 30cm



REAMERS - AWLS - BONE HOOKS



50-137-13
Reamer
13.5cm / 5 1/4"



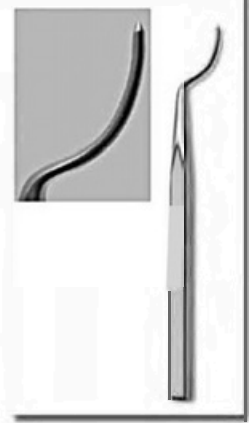
50-138-18
Perthes Reamer
18cm / 7"



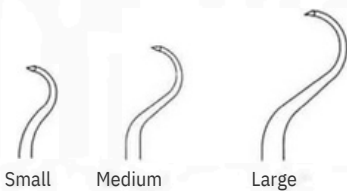
50-139-21
Perthes Reamer
21.5cm / 8 1/2"



50-140-14
Reamer
One concave side
14cm / 5 1/2"



50-141-14
Glenoid Reamer
20cm / 8"



Small Medium Large



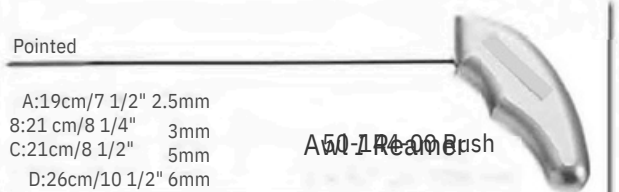
50-142-00 Shoulder
Retraction Awl
A: 21.5cm / 8 1/2"
B: 23.5cm / 9 1/4"



50-145-00
Shoulder
Penetrating Awl
Fibre Handle
A: 18cm / 7"
B: 23cm / 9"

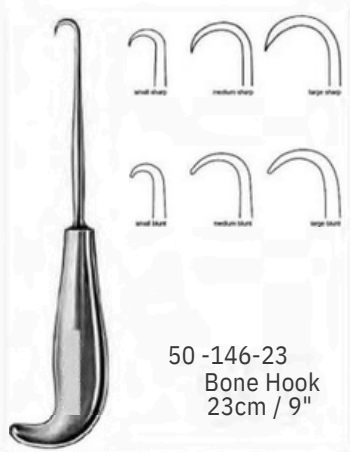


50-143-28
Kuntzsch Diamond Awl
28cm / 11"

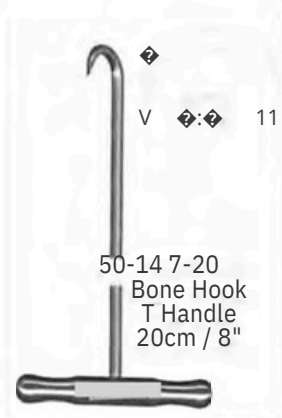


Pointed
A: 19cm / 7 1/2" 2.5mm
8: 21cm / 8 1/4" 3mm
C: 21cm / 8 1/2" 5mm
D: 26cm / 10 1/2" 6mm

50-144-00 Retraction Awl



50-146-23
Bone Hook
23cm / 9"



50-147-20
Bone Hook
T Handle
20cm / 8"



50-148-14
Bone Hook T Fibre Handle
14cm / 5 5/8"



50-150-25
Pointed Awl
Fibre Handle
25cm / 10"



50-149-00 Volkman Bone Hook

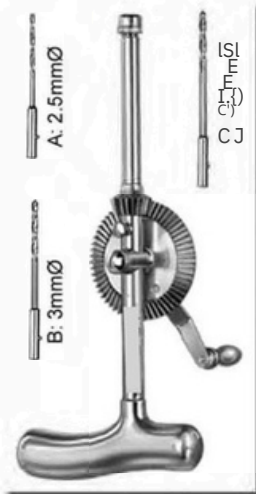
A: 20cm / 8"
19X27mm 1
Sharp

B: 23cm / 9"
15X20mm 1
Blunt

C: 23cm / 9"
15X20mm 1
Sharp

C: 25cm / 9 3/4"
15X20mm 1
Sharp

HAND BONE DRILLS



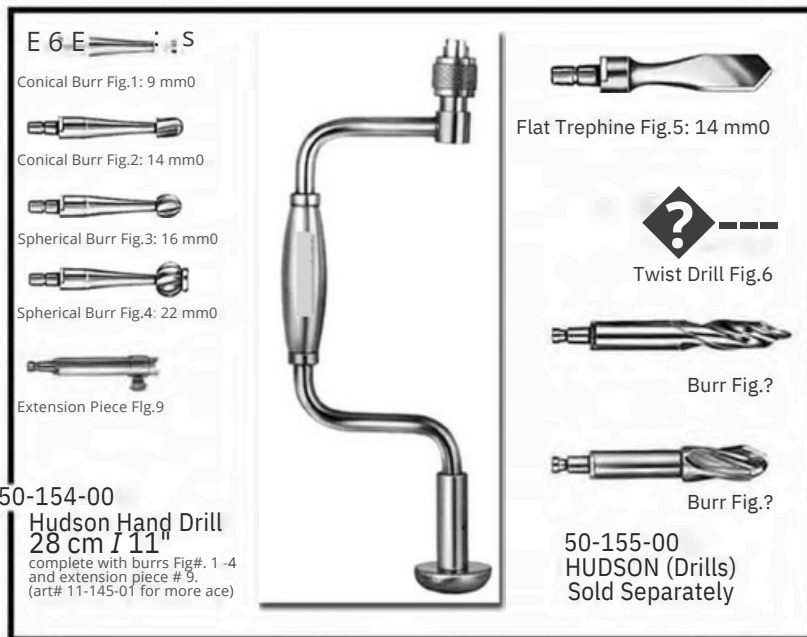
50-151-24
Stille-Sherman Hand Drill
24 cm / 9 1/2"
with 3 twist drills



50-152-20
Stille Hand Drill
20.5 cm / 8"
w/ 9 Twist Drills

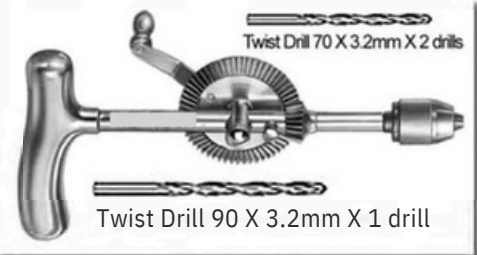


50-1 53-00

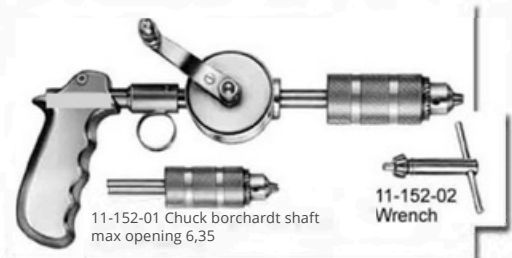


50-154-00
Hudson Hand Drill
28 cm / 11"
complete with burs Fig#. 1-4
and extension piece # 9.
(art# 11-145-01 for more ace)

50-155-00
HUDSON (Drills)
Sold Separately



50-156-00 Moore Hand Drill
complete with a set of 3 twist drills



50-157-00
Martin Hand Drill with Chuck & Wrench



50-158-16
Bunnell Hand Drill
16cm,

Longitudinally Bored with 3-Jaw-Chuck
Light Metal Housing
opening up to 4mmØ



50-159-16
Bunnell Type
Hand Drill 16cm,

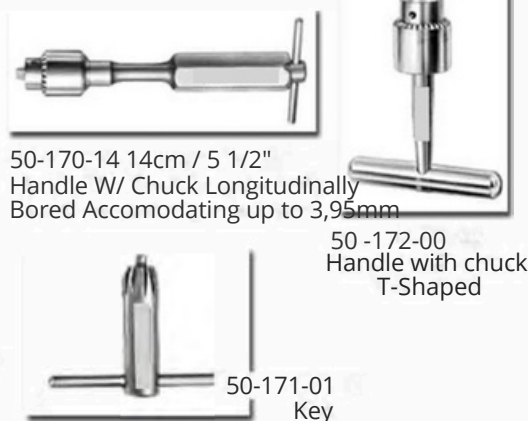
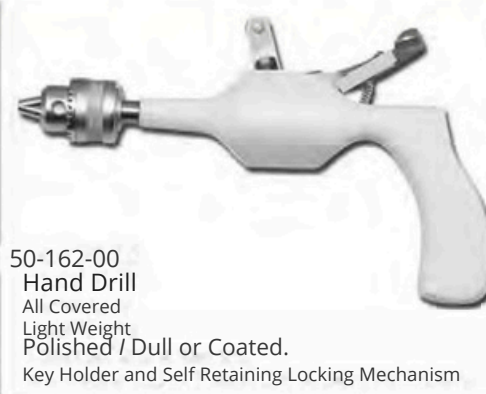
Twin Shade Powder Coated
Longitudinally bored with 3-Jaw-Chuck
light metal housing opening up to 4mmØ



50-160-00

Ralk Hand Drill

Light Metal Housing
Literally Angled Handle with 3-Jaw-Chuck
and key, opening up to 6,35mmØ



50-173-01
Key



DRILL BITTS - BURRS ETC

50-175-00 5mm Borchardt Shaft Twist Drill



Long Working End

A: 2.0mm B: 2.5mm C: 3.0mm D: 3.2mm E: 3.5mm F: 4.0mm G: 5.0mm H: 6.0mm I: 7.0mm



50-176-00 5mm Borchardt Shaft Twist Drill

A: 1.0mm B: 1.5mm C: 1.8mm D: 2.0mm E: 2.2mm F: 2.5mm G: 2.8mm H: 3.0mm I: 3.2mm J: 3.5mm K: 4.0mm L: 5.0mm



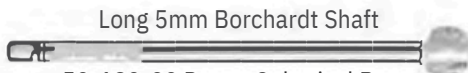
50-177-00 5mm Borchardt Shaft Flat Trphine



50-178-00 5mm Borchardt Shaft Spherical Burr
A: 3.0mm B: 4.0mm



A: 3.0mm B: 5.0mm
50-179-00 5mm Borchardt Shaft Spherical Burr



Long 5mm Borchardt Shaft
50-180-00 Doyen Spherical Burr

A:4mm B:6mm C:8mm D:10mm E:12mm F:14mm G:16mm



50-181-00 Doyen Spherical Burr

A:4mm B:6mm C:8mm D:10mm E:12mm F:14mm G:16mm



50-182-03 Doyen Conical Burr
Coarse Spacing 12mm Dia



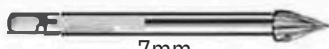
50-183-00 Doyen Conical Burr



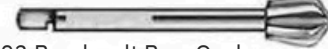
50-184-00 Doyen Cylindrical Burr
Coarse Spacing A: 12mm I B: 15mm



50-185-00 Albee Burr Oval
Coarse Spacing A:8mm



7mm
50-186-03 Albee Burr Pointed



50-187-03 Borchardt Burr Oval
Coarse Spacing 13mm



z\$esco med t
Borchardt Shaft 25mm
50 -188-03 Flat Burr Short



50-189-03 Toti Trephine
Short Borchardt Shaft 8mm

BONE HOLDING CLAMPS



50-190-00
Standard



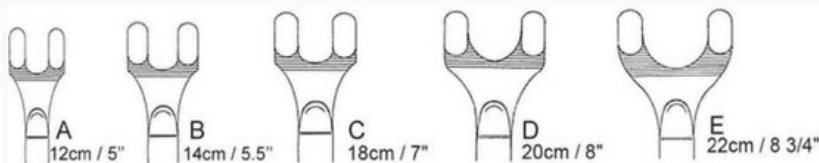
◆ cm/5 ◆ cm/5.5 ◆ cm/7 ◆ cm/8" ◆ /8 3/4"

Gerster-Lowman Bone Holding Clamp

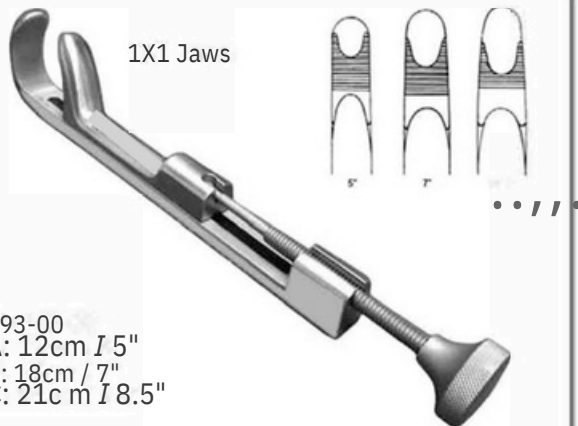


50-192-15 Gerster
Traction Bar
15cm / 6"

50-191-00
Angled



Gerster-Lowman Bone Holding Clamp



50-193-00
A: 12cm / 5"
B: 18cm / 7"
C: 21cm / 8.5"

Gerster-Lowman Bone Holding Clamp



50-50-194-00
C: 18cm / 7"
B: 20cm / 8"

Gerster-Lowman Bone Holding Clamp



50-195-18 Flat Nose Plier 18.5 cm I 7 1/4" Parallel Grip SS



50-197-18 Flat Nose Plier I Cutter 18.5 cm I 7 1/4" Parallel Grip



50-200-22 Long Nose Plier I 22 cm I 8 1/4"



50-201-20 Vise Grip 20.5 cm / 8" Stainless Steel



SLAP HAMMER w/ Threaded Shaft Head to be used with 20-131-20 and 50-204-20



SLAP HAMMER w/ Hexa Shaft Head to be used with 20-131-20 and 50-206-20



50-207-00 Regular Jaw Locking Plier
A: 18 cm I 7" 8: 20 cm I 8"
r. 20 cm I 8"



50-196-23 Vise Grip 23 cm I 9" Locking Plier



50-198-20 Vise Grip 20.5 cm / 8" Locking Plier



50-199-18 Vise Grip 18 cm I 7" Locking Plier



50-202-30 Needle Nose Locking Plier 30 cm I 12"



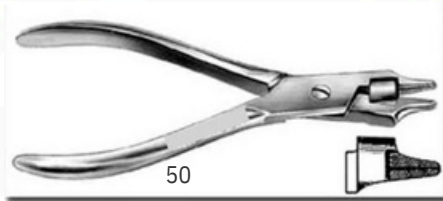
50-203-25 Needle Nose Locking Plier 25.5 cm I 10"



50-205-22 Needle Nose Locking Plier 22 cm I 8.5"



50-208-00 Needle Nose Locking Plier
A: 22 cm I 8.5"
8: 25.5 cm I 10"
C: 30 cm I 12"



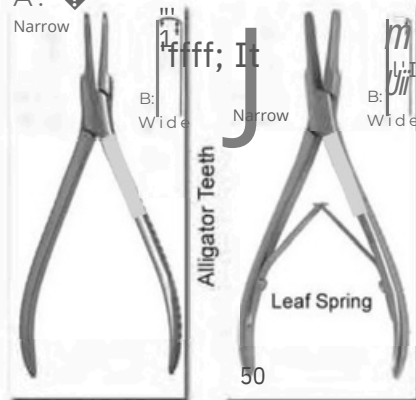
50
-209-15
Combi-Flat Nose Pliers 15 cm / 6"
for Bending & Cutting



50-212-18 Round Flat Nose Pliers
18 cm / 7"



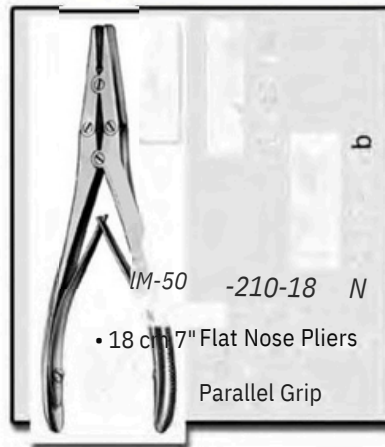
-214-17 Flat Nose Pliers
17 cm / 6 3/4" with crosswise groove
A:  Narrow



50-217-15
Platypus Nail
Pulling Forceps
155 cm / 61 1/4"



-218-15
Platypus Nail
Pulling Forceps
15.5 cm / 6 1/4"



IM-50 -210-18 N
• 18 cm / 7" Flat Nose Pliers
Parallel Grip



Flat Nose Pliers -215-17
17.5 cm / 7"



-211-13 Flat Nose Pliers
13.5 cm / 5 1/4"



50-213-16 Hackstock Flat
Nose Pliers 16 cm / 6 1/4"



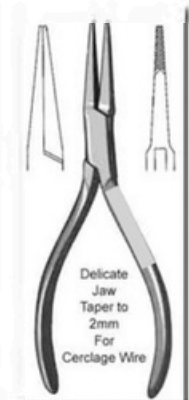
50-216 -19
Flat Nose Pliers Pointed 19.5 cm / 7 3/4"



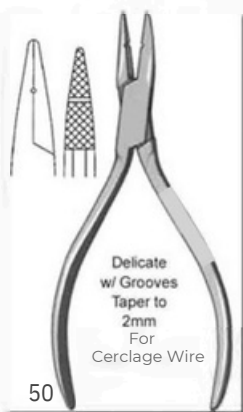
-219-15
Round Nose Pliers
15.5 cm / 6 1/4"



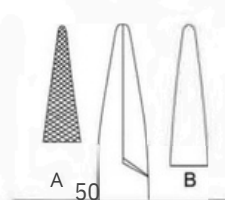
-220-15
Needle Nose Pliers
15.5 cm / 6 1/4"



50-221-15
Flat Nose Pliers
15 cm / 6"



-222-13
Needle Nose Pliers
13.5 cm / 5 1/4"



-223-14
Needle Nose Pliers
Taper to 2mm tip
14 cm / 5 1/2"
A: Fine Cross Serration
B: Smooth



-224-18
18.5 cm / 7 1/4"
Wire Cutting Pliers



-225-16
Martin "Diamant"
Hard wires up to 1.5mm Ø

BENDING - WIRE CUTTING PLIERS



Delicate
w/ Grooves
Taper to
2mm
For
Cerclage Wire

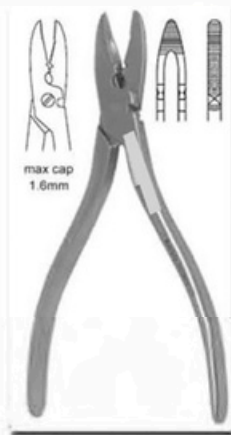
50-226-14
14cm / 5 1/2"
Circlage Pliers / Cutter



max cap
0.9mm

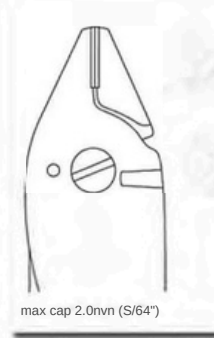
w/Cutter,
Notched
Serrated Jaw

50-227-20
20 cm / 8"
Wire Bending Pliers



max cap
1.6mm

50-228-15
15cm/6"
Wire Bending Pliers



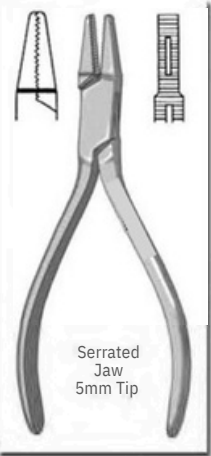
max cap 2.0mm (S/64")

50-229-20
20 cm / 8"
Wire Bending Pliers
TUNGSTEN
CARBIDE



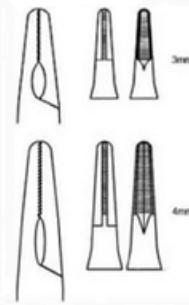
Serrated
Jaw
2mm Tip

50-230-15
15 cm / 6"
Needle Nose Pliers



Serrated
Jaw
5mm Tip

50-231-14
14 cm / 5 1/2"
Flat Nose Pliers



50-232-00
K-Wire Pliers
A: 13 cm / 5"
B: 17.5 cm / 7"



50-233-19
19 cm / 7 1/2"
Screw/Pin
Removing Pliers



Tip Taper
to
3mm

50-234-14
14 cm / 5 1/2"
Pin Puller
Grips Small Pins



Tip Taper
to
3.5mm

50-235-16
16 cm / 6 1/2"
Flat Nose Pliers
w/ Cutter
for Cerclage Wire



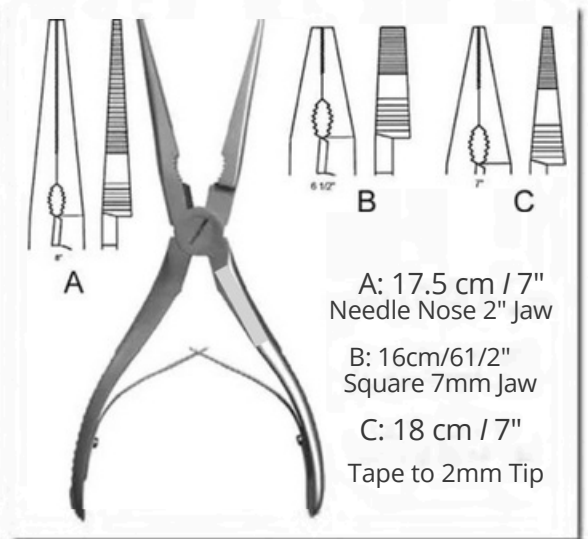
Tip Taper
to
3.5mm

50-236-19
19 cm / 7 1/2"
Narrow
Nose Pliers
Heavy Jaws
for Pulling
Wire / Pins



Tip Taper
to
2mm

50-237-17
17.5 cm / 7"
Long Jaw Pliers
2inch Long Jaw
Delicate



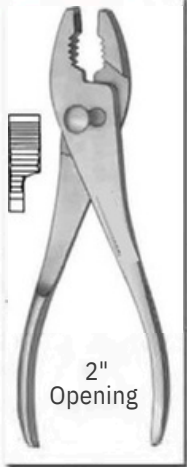
A: 17.5 cm / 7"
Needle Nose 2" Jaw

B: 16cm / 6 1/2"
Square 7mm Jaw

C: 18 cm / 7"
Tape to 2mm Tip

50-238-00
UNIVERSAL Pliers
Serrated w/ Heavyduty Spring and Cutting Edge
Max Cutting Cap: 1.1 mm

BENDING - PASSERS ETC



50-239-20
20 cm 18"
Slip Joint Pliers



50-240-21
21 cm 18 1/2"
Lineman Pliers

ALL TUNGSTEN CARBIDE



2mm
A: 2mm Delicate Jaw TC
B: 3mm Jaw TC
C: 2mm Long Jaw TC
D: 6mm Jaw TC

50-241-00
18 cm 17"
Double Action Wire Extraction Plier



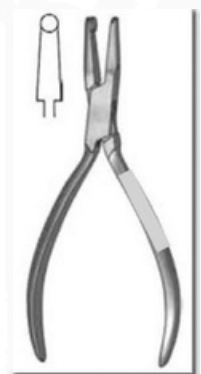
50-242-19 19 cm 17 1/2" Gratloch Wire Bender



50-243-13
13.5 cm / 5"
K-Wire / Plate Bender



50-244-14
14.5 cm / 5 1/2"
K-Wire / Plate Bender



50-1245-13
13.5 cm / 5"
Mini Plate Bending Pliers



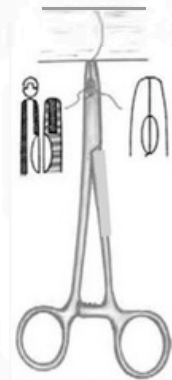
18 cm / 7 1/4"
Rod Holder
A: 4.0mm Rod
B: 4.76mm Rod
C: 6.35mm Rod
Straight or Curved



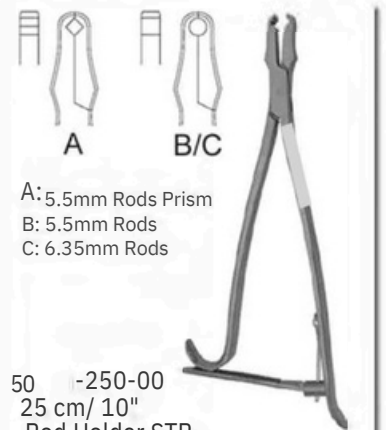
50-247-14
14.5 cm / 5 1/2"
Plate Bending Pliers



50-248-16
16 cm / 6 1/2"
Wire Pulling Forceps



50-249-16
16 cm / 6 1/4"
Wire Twister / Tightener



50-250-00
25 cm / 10"
Rod Holder STR



50-251-21
21 cm / 8 1/2"
Rod Gripper
Adjustable



BONE WIRE MANAGEMENT



50-252-21
Loute Wire Tightener (21 cm / 8 1/4")



50-253-11
Wire Tightener
11 1/2" handle 1 1/2"



Wire Tightener 12 cm / 4 3/4"



50-255-00 Demel
Wire Guide



50-256-18 Bankert
Ligature Carrier



CVD
Crochet
Hook Fiber
Handle
A: 18cm / 7"
B: 23cm / 9"



50-258-00
Suture Passer

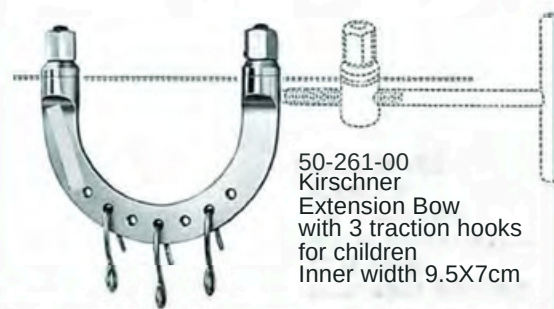


Suture Hole
20cm / 8"
A: Right Blunt
B: Left Blunt
C: Right Sharp
D: Left Sharp

50-259-00 Deschamps
Ligature Carrier



50-260-00
Bohler Extension
Bow for femur & knee



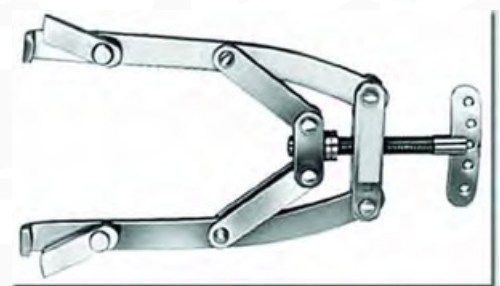
50-261-00
Kirschner
Extension Bow
with 3 traction hooks
for children
Inner width 9.5X7cm

20-143-02
10.5X10.5cm

20-143-03
for Elbow
12X12cm

20-143-04
for Knee
15.5X15.5cm

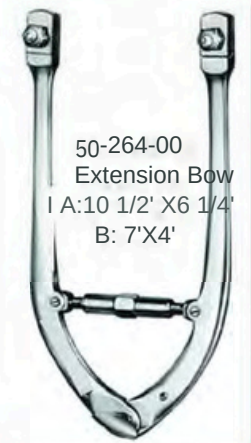
20-143-05
20X15.5cm



50-262-00 (Kirschner Extension Bow)
A: Small: 10.5cm / 4"
B: Large: 26.5 cm / 10 1/2"
wnh 3 traction hooks



Wire Strainer 15.8 cm /
7 1/4"



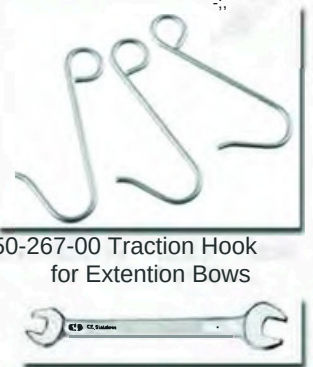
50-264-00
Extension Bow
A: 10 1/2" X 6 1/4"
B: 7" X 4"



50-265-00
Fixation Discs
for wire drills, pair



50-266-00 Extension Sleeve
Small / Medium / Large

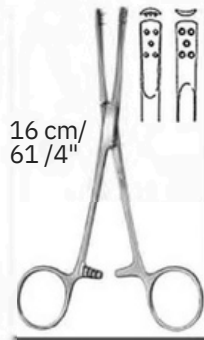


50-267-00 Traction Hook
for Extension Bows

Wrench 20cm / 8"



50-273 -1 4
RadoIf
Nail Extracting Forceps



50-274-16
Nail Extracting
Forceps



50-270 -10 Feldheim Tourniquet
10cm I 4"



501-27 5-18
Martin Finger
Ring Saw 18.5 cm I 6 3/4"
Spare Blades are Available
Separately



50-271 -16
Walton
Finger Ring Saw
16cm/61/4"



50-272-17
Finger Ring Saw
17cm/ 63/4"



50-276-00
Finger Ring Saw Cutter Spare



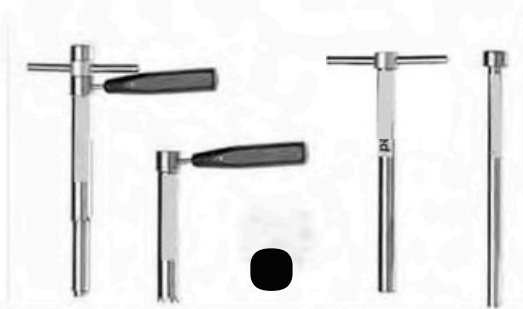
50-277-00 Lead Hand for Kids I Adults



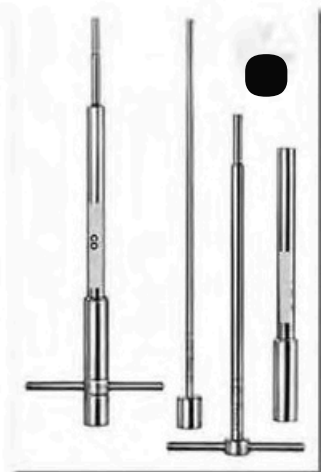
50-278 -00 Lead Hand for Kids I Adults



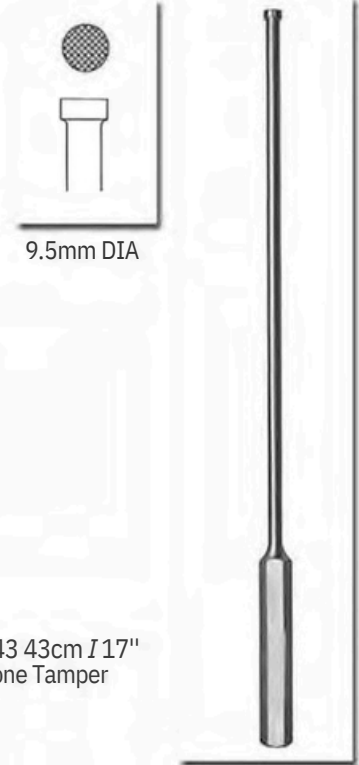
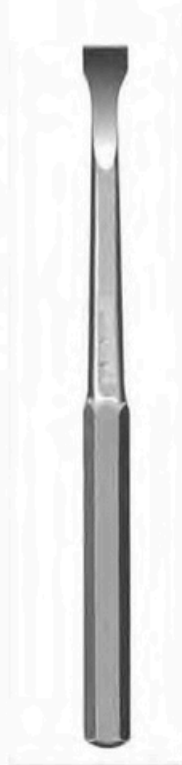
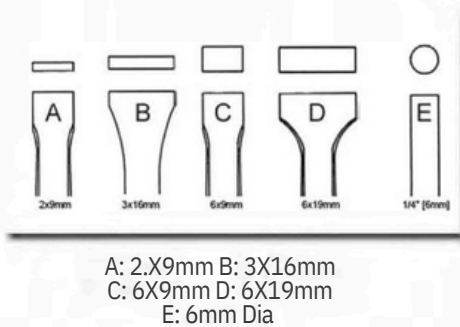
50-279 -00
Champy-OSU Bone Biopsy Instruments
Consisting of trocar, a toothed trephine
and a plunger for taking tibial and
iliac bone grafts through a closed technique
22 cm I 8 3/4"



50-280-00
Champy Cancellous Bonegraft Mill
Outer Dia: 17mm
Inner Dia: 16mm



50-281-00
Champy Bone Biopsy Instruments
A: Outer Dia: 5mm Inner Dia: 4mm
B: Outer Dia: 8mm Inner Dia: 7mm
22 cm I 8 3/4"





50-290-30 Putti Bone Rasp Round I Semi Round
30cm I 11 3/4"



50-292-28 Bone File 28 cm I 11" w/ Hollow Handle
Semi Round



50-294-22 Bone File 22 cm I 8 3/4"
Flat I Round



50-291-27 Putti Bone Rasp Curved I Straight
27cm I 10 3/4"



50-293-24 Bone File 24.5 cm I 9 3/4"
w/ Hollow Handle Semi Round



50-295-22 Bone Rasp 22 cm I 8 3/4"
Flat/ Round



50-296-18 Bone File 18 cm I 7"
Fibre Handle I Cross-Hatch



501-297-18 Bone File 18 cm I 7"
Fibre Handle / Linear



50-298-18 Bone File 18 cm I 7"
Fibre Handle I Straight



50-299-18 Bone File 18 cm I 7"
Fibre Handle I CVD Forward



50-300-18 Bone File 18 cm I 7"
Fibre Handle I CVD Backward

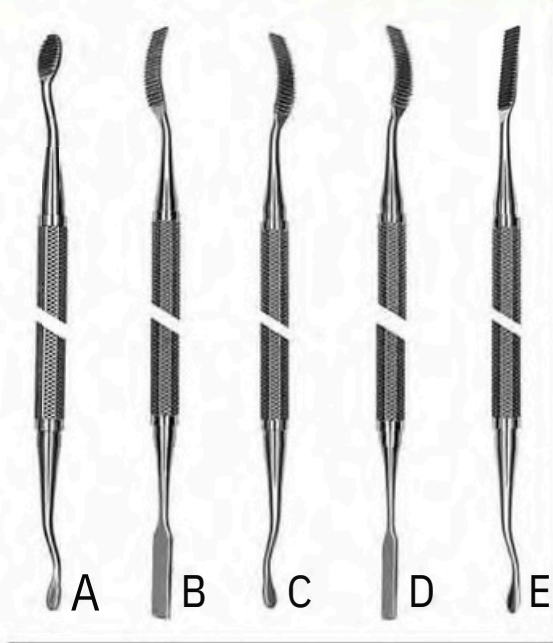


50-301-18 Bone File 18 cm I 7"
Fibre Handle I STR Diamond Coated

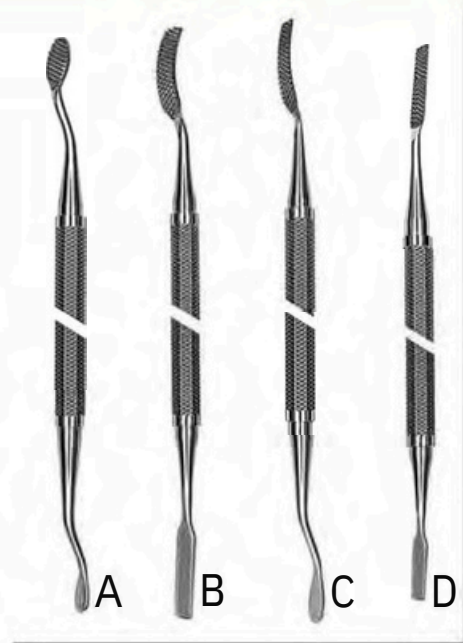


501-302-18 Bone File 18 cm I 7"
Fibre Handle I CVD Diamond Coated

BONE FILES - RASPS



50-303-00 A $\frac{1}{2}$ CID IE
Miller-Colburn Bone File 18 cm 7" Downwards Cut



50-304-00 A $\frac{1}{2}$ CID I
Miller-Colburn Bone File 18 cm 7" Cross Cut



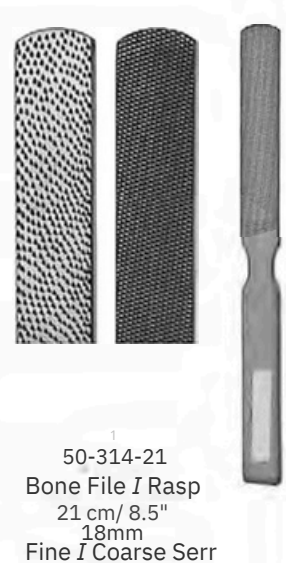
50-311-21
Bone Rasp
Fomon
21 cm / 8.5"
8mmX40mm
Coarse Serr
4 Sided
Flat I Covex Blades



50-312-21
Bone Rasp
Fomon
21 cm / 8.5"
8mmX40mm
Fine Serr
4 Sided
Flat I Covex Blades



50-313-21
Bone Rasp
Kleinert Kurtz
21 cm / 8.5"
8mmX45mm
Fine/Coarse Serr
4 Sided
Flat I Covex Blades



50-314-21
Bone File I Rasp
21 cm / 8.5"
18mm
Fine I Coarse Serr



50-315-16 Bone Lever
16 cm / 6 1/4"



50-318-16 Hohman, MinBi one Lever=====>
16 cm/ 6 1/4" 14 mm tip



50-316-16H ohman, MinBi one Lever 16 cm 6 1/4" 6mm tip



50-317-16 Hohman, MinBi one Lever 16 cm 6 1/4" 8 mm tip



50-319-12 Hohman, MinBi one Lever 12 cm / 4 3/4" 14 mm tip



50-320-22 Hohmann Bone Lever
22 cm / 8 3/4" 8 mm Tip narrow tip



50-322-23 Hohmann Bone Lever
23.5 cm / 9 1/4" 43 mm Tip narrow tip



50-325-25 Lange-HohmannB one Lever
25 cm / 9 3/4" 22mm Tip
wide tip with groove



50-327-00
HohmannB one Lever 27.5 cm/ 10 3/4"
24 mm Tip wide, round tip



Sizes
Available
B: 7.5 X 30mm
100 X 30mm

50-332-00
A/B
Taylor Spinal
Retractor
16 cm/6 1/4"
pointed end



50-323-00
Hohmann Bone Lever
13cm/5" A:3mm B:5mm C:7mm



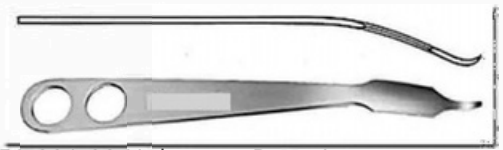
ZM-50-328-25
Hohmann Bone
Lever 25 cm / 9 3/4" 70 mm Tip narrow tip



ZM-50-330-23
Hohmann
Bone Lever
23.5 cm / 9 1/4" 43mm Tip narrow tip



50-333-25
Hohmann Bone Lever 25.5 cm / 10"
22mm Tip wide tip



50-321-23 Hohmann Bone Lever
23.5 cm / 9 1/4" 18 mm Tip narrow tip



50-324-29
HohmannB one Lever 29 cm / 11 1/2"
35mm Tip wide tip



A: 43...mm 4.1'
50-326-24 A/B
BennettB one Lever 4.1' B: so mm=
24 cm / 9 1/2"



50-329-26B Blount Knee Retractor
blunt



50-331-26 Blount Knee Retractor
26.5cm/ 10 1/2"



50-334-17 Blount
Knee Retractor

RETRACTORS - BONE LEVERS



A: 32X81mm
B: 38X81mm

50-335-19 Fukuda Retractor
19 cm I 7 1/2" T Handle

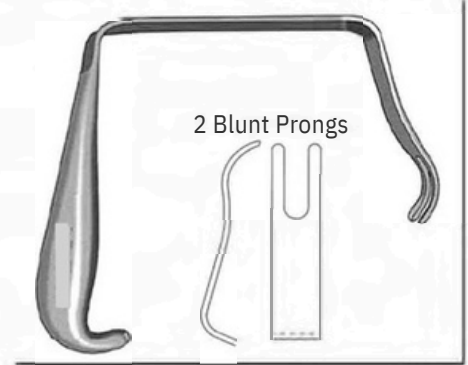


50-336-28 Browne - Deltoid Retractor
28 cm I 11" T Handle w/ Ring



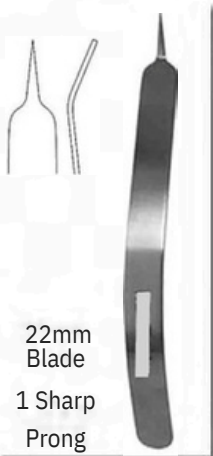
2 Blunt Prongs

50-337-18 Humeral Head Retractor
18 cm I 7" Strong Curved



2 Blunt Prongs

50-338-18 Bristow I Bankart
Humeral Retractor
18 cm I 7"



22mm
Blade

1 Sharp
Prong

50-339-25
Capsule Retractor
25 cm / 10"



22mm
Blade

2 Sharp
Prong

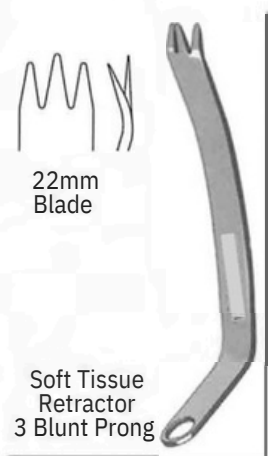
50-340-25
Capsule Retractor
25 cm / 10"



22mm
Blade

3 Sharp
Prong

50-341-25
Capsule Retractor
25 cm / 10"



22mm
Blade

Soft Tissue
Retractor
3 Blunt Prong

50-342-19
Bristow/Bankart
19 cm I 7 1/2"



A: 13mm
B: 18mm
C: 20mm
D: 23mm

50-343-00
Blade Retractor
19 cm I 7 1/2"



13X18mm
Blade
T Handle

50-344-13
Smillie Retractor
13cm / 5"



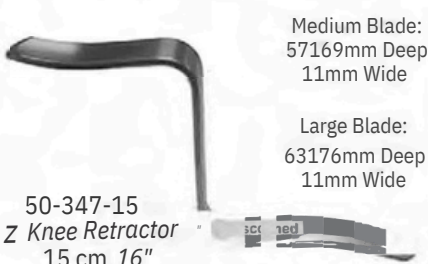
13X55mm
Blade
T Handle

50-345-14
Smillie Retractor
14cm I 5 1/2"



Small: 19X32mm
Medium: 19X45mm
Large: 19X60mm
T Handle

50-346-00
Smillie Retractor
Angled Blade 14cm / 5 1/2"



Medium Blade:
57169mm Deep
11mm Wide

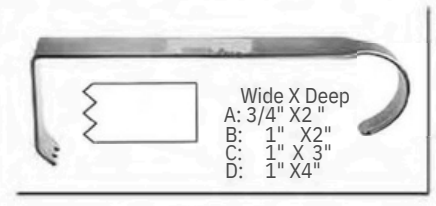
Large Blade:
63176mm Deep
11mm Wide

50-347-15
Z Knee Retractor
15 cm I 6"



9X38mm Blade

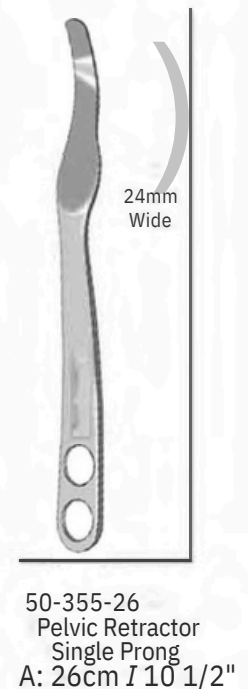
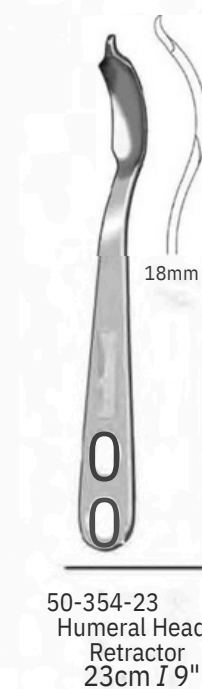
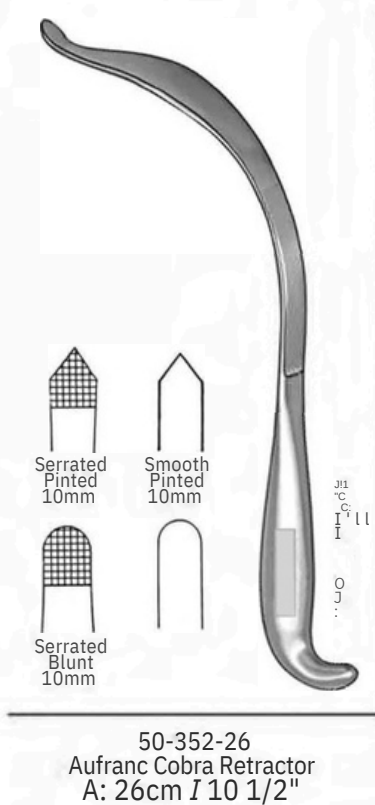
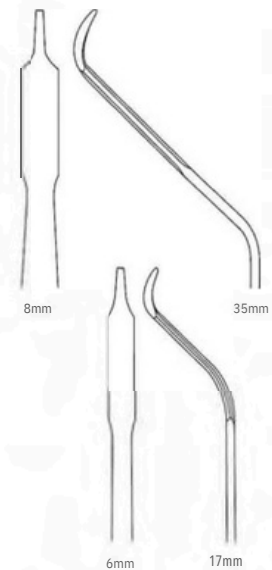
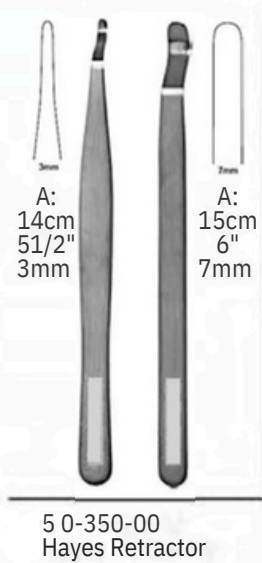
50-348-22
Knee Retractor
22 cm I 8 1/2" Ring Handle



Wide X Deep
A: 3/4" X 2"
B: 1" X 2"
C: 1" X 3"
D: 1" X 4"

50-349-24
Hibbs Retractor
24 cm I 9 1/2" Sharp Teeth

RETRACTORS - BONE LEVERS



50-357-00
Ribbon Retractor Malleable
30cm 12"

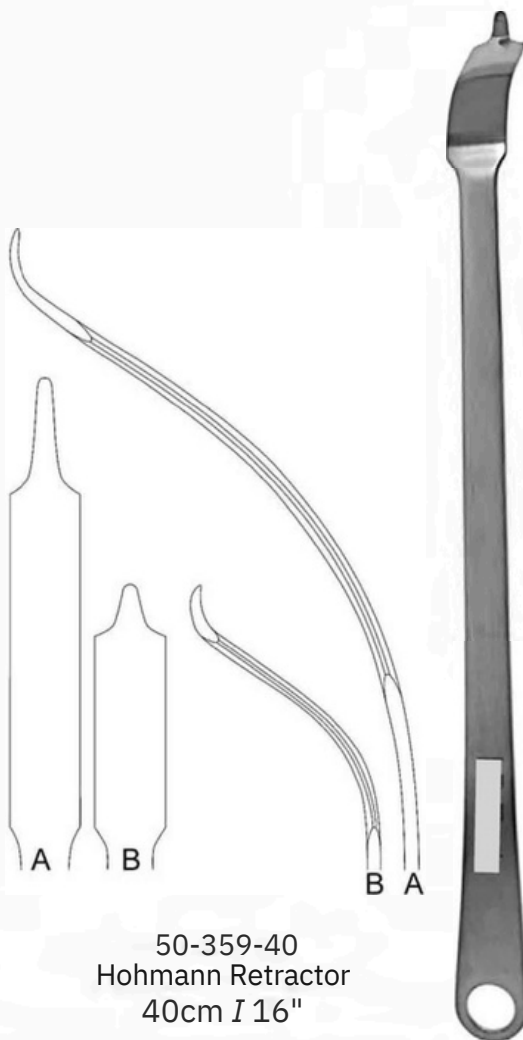
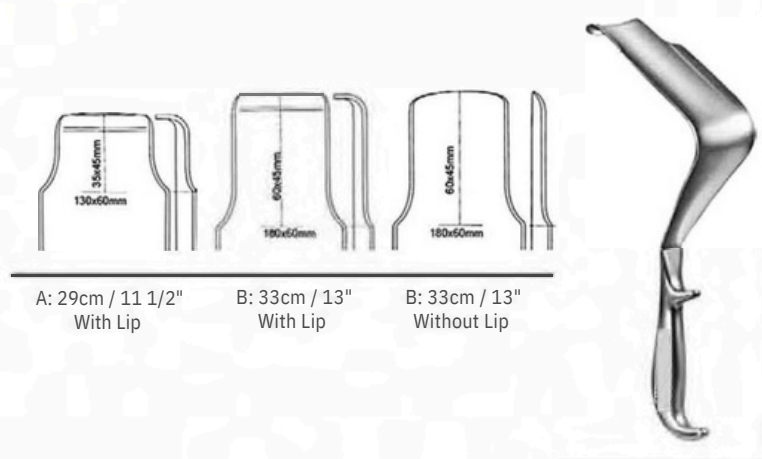
A: 6" X 6mm B: 6" X 12mm C: 6" X 16mm D: 6" X 19mm E: 7 1/2" X 25mm

Sizes Available

F: 8" X 6mm
G: 8" X 10mm
H: 8" X 12mm
I: 8" X 16mm
J: 8" X 19mm

K: 13" X 19mm
L: 13" X 30mm
M: 13" X 38mm
N: 13" X 45mm
O: 13" X 50mm
P: 13" X 65mm
Q: 13" X 75mm

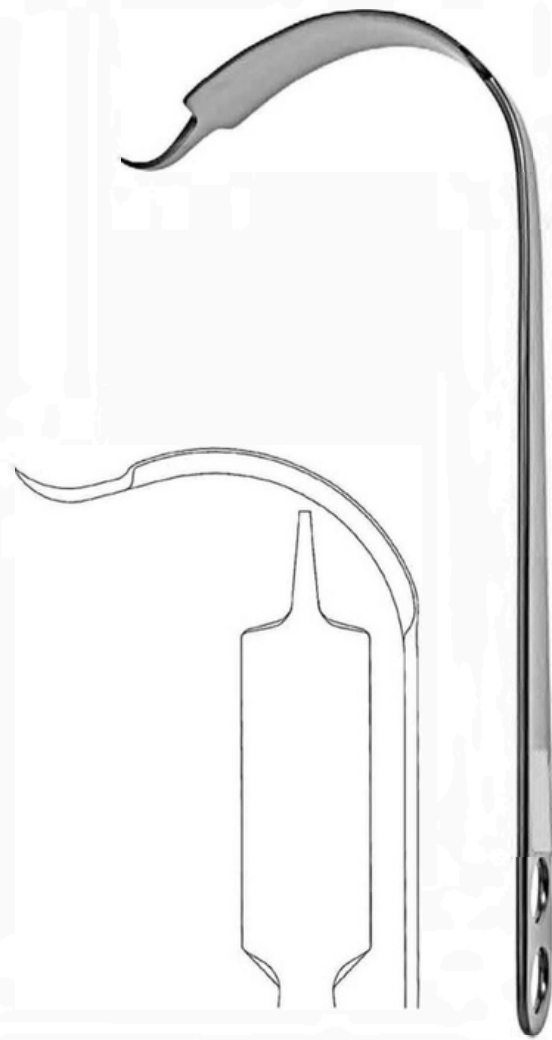
50-358-00
St. Mark's Pelvic Retractor
Angled Blade



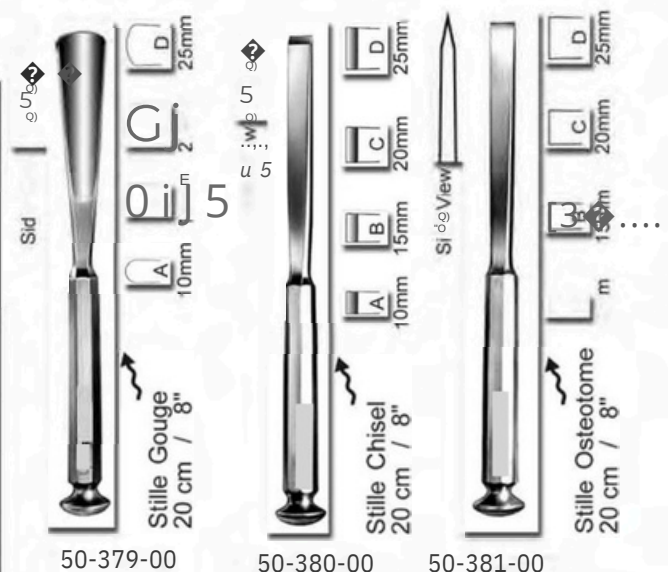
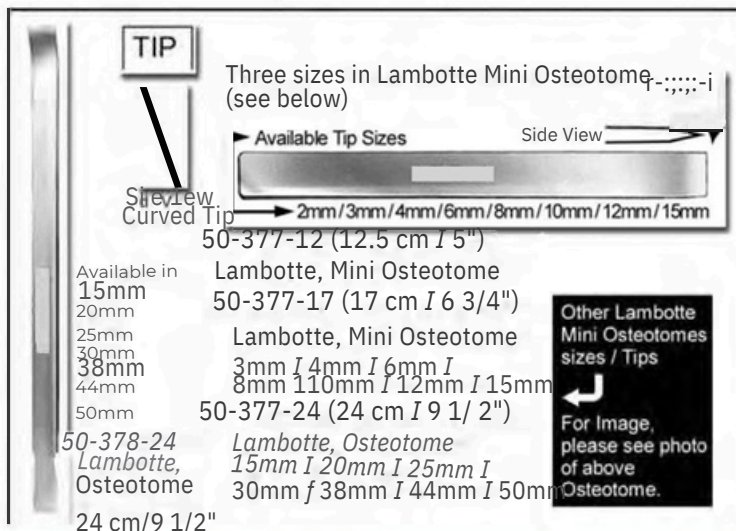
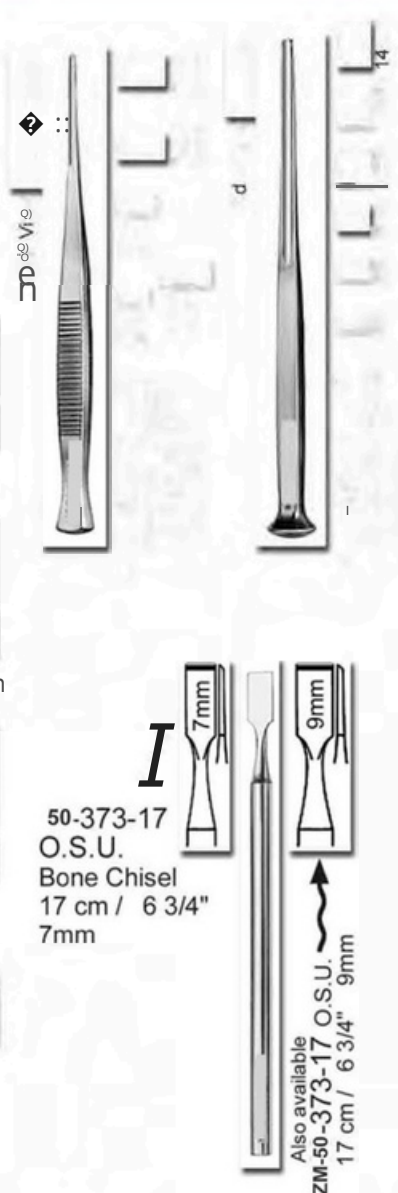
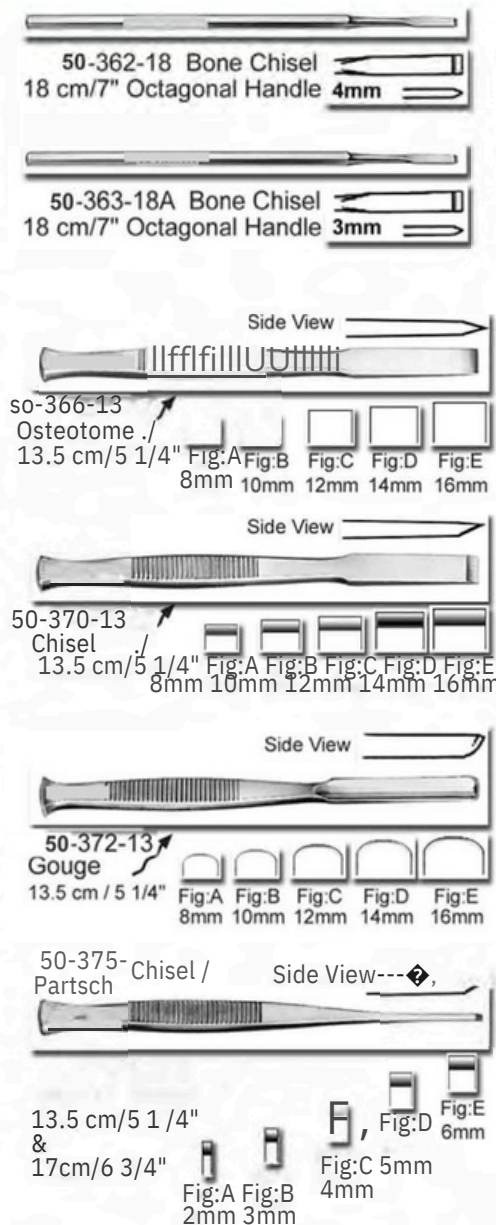
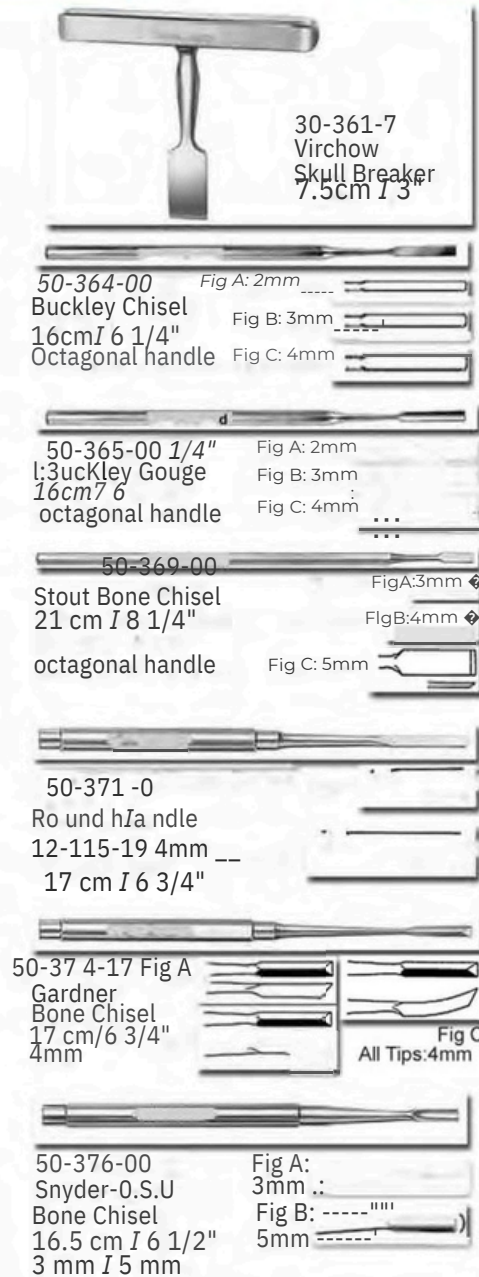
50-359-40
Hohmann Retractor
40cm I 16"

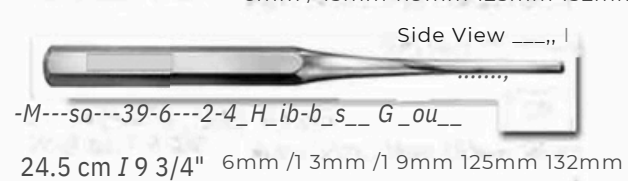
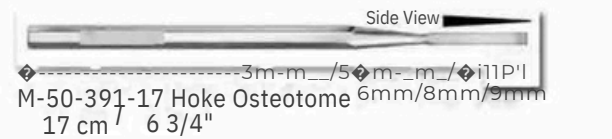
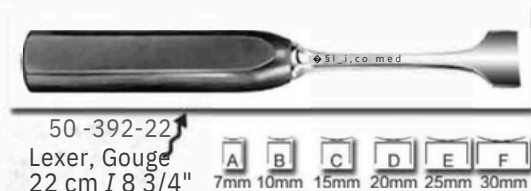
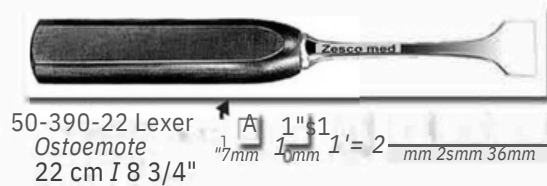
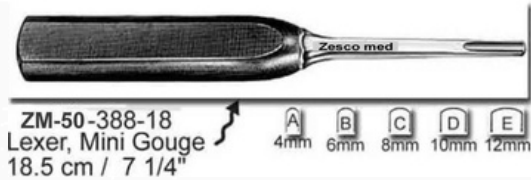
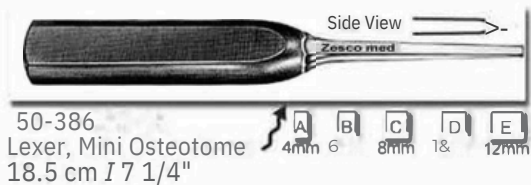
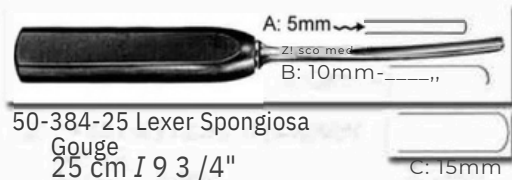
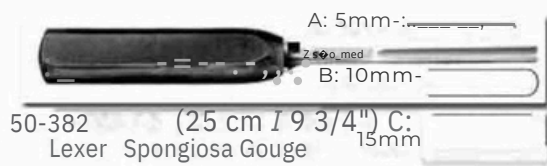
A: 22mm Blade
2 Finger Rings Long Round

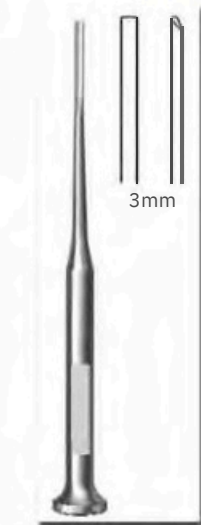
B: 22mm Blade
1 Finger Ring Short Round



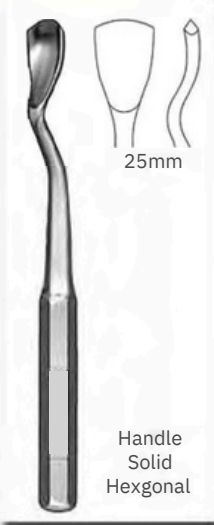
50-360-33
Hohmann Retractor
33cm I 13"
40mm Blade Width



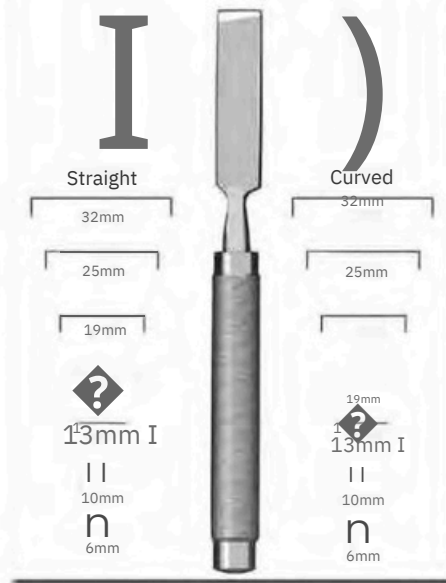




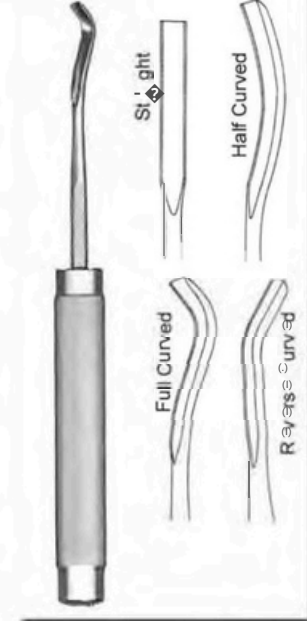
50-402-21
Shoulder Penetrating
Gouge 21cm/8 1/2"



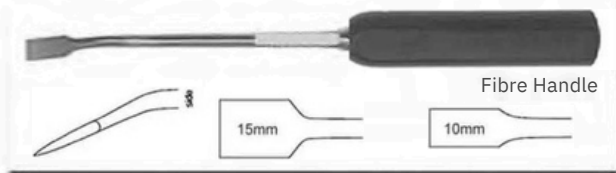
50-403-23
Swan Neck
Gouge 23cm/9"



50-404-00
Cobb Osteotome 28cm/11"



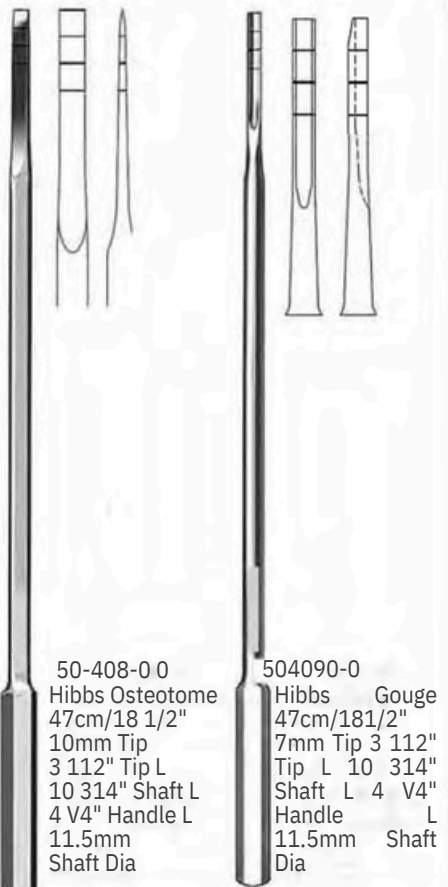
50-405-00
Cobb Gouge 28cm/11"



50-406-00 Lexer Osteotome Angled / 28cm/11"



50-407-00 Cinelli Osteotome 15.5cm/6 1/2"

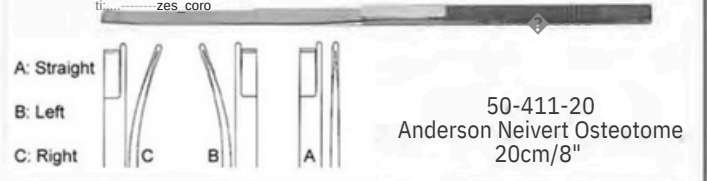


50-408-00
Hibbs Osteotome
47cm/18 1/2"
10mm Tip
3 1/2" Tip L
10 3/4" Shaft L
4 V4" Handle L
11.5mm
Shaft Dia

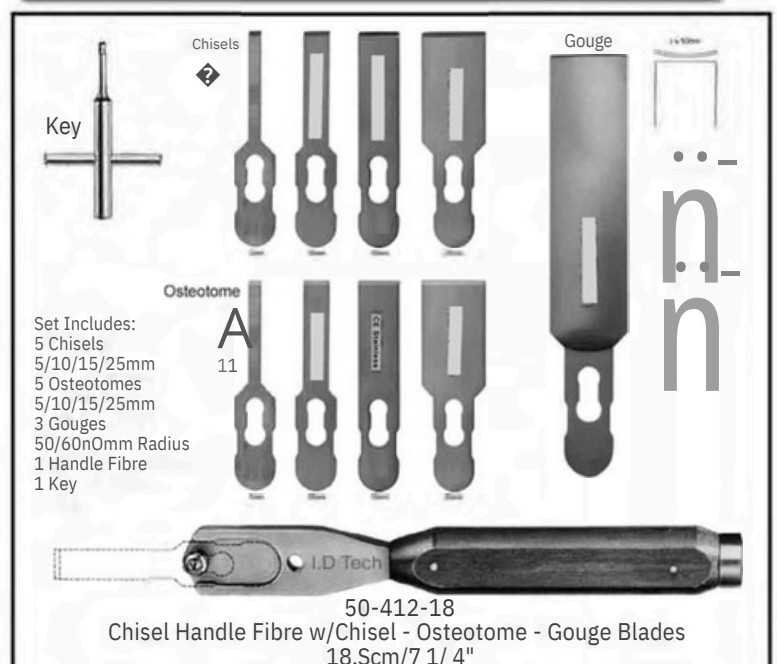
504090-0
Hibbs Gouge
47cm/18 1/2"
7mm Tip 3 1/2"
Tip L 10 3/4"
Shaft L 4 V4"
Handle L
11.5mm Shaft
Dia



50-410-24
Spinal Fusion
Gouge
24cm/9 1/2"
6mm Tip

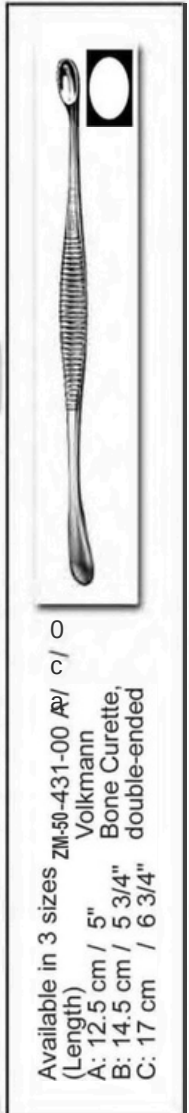
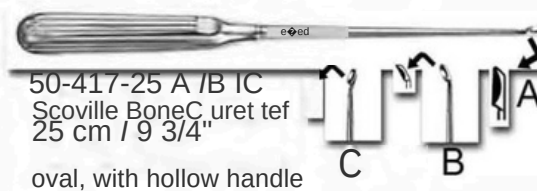
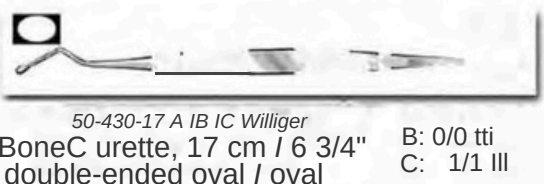
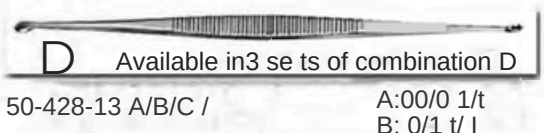
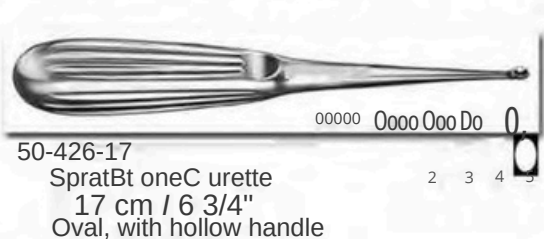
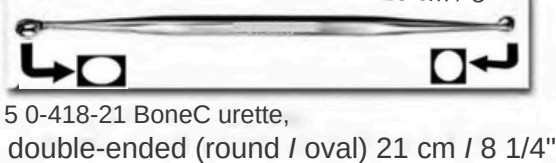
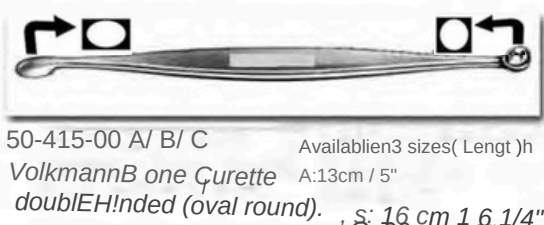


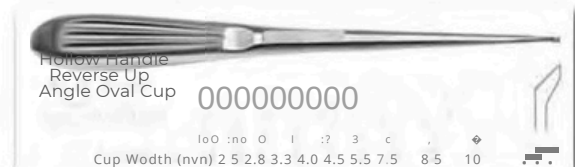
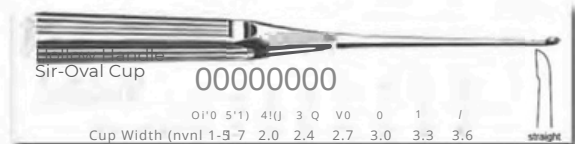
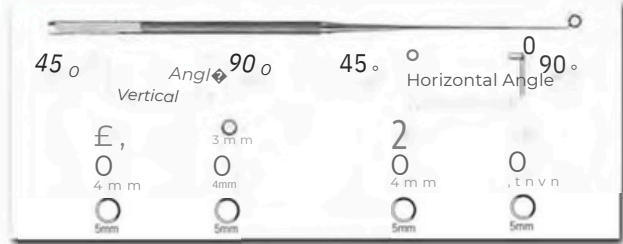
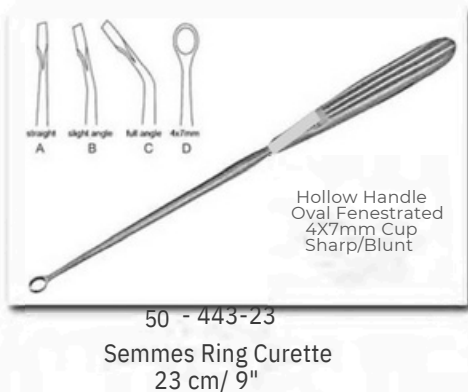
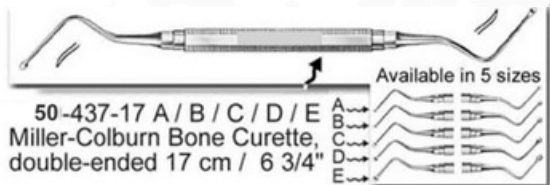
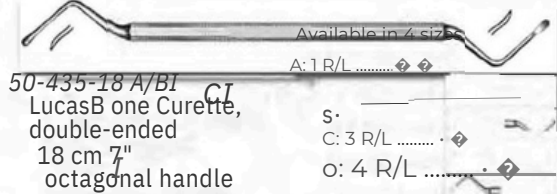
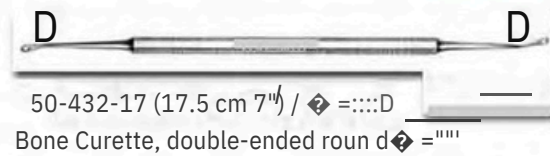
50-411-20
Anderson Neivert Osteotome
20cm/8"



Set Includes:
5 Chisels
5/10/15/25mm
5 Osteotomes
5/10/15/25mm
3 Gouges
50/60mm Radius
1 Handle Fibre
1 Key

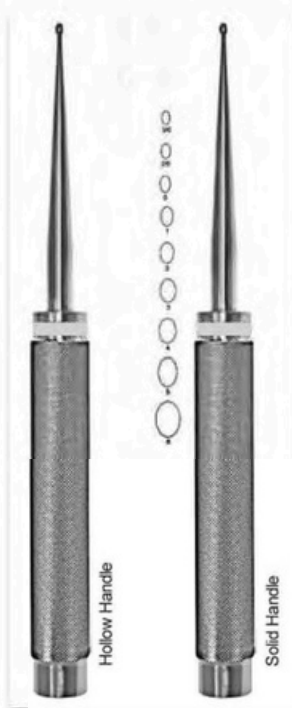
50-412-18
Chisel Handle Fibre w/Chisel - Osteotome - Gouge Blades
18.5cm/7 1/4"







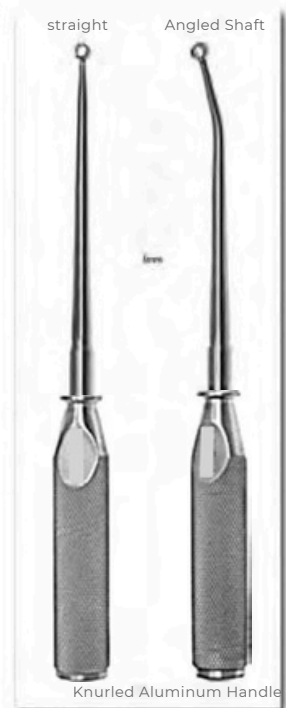
50-446-28
Cobb Curette Oval Cups
28 cm / 11"



50-447-28
Cobb Curette Oval Cups
28 cm / 11"



50-448-00
Sypert Curette Long Delicate Shaft



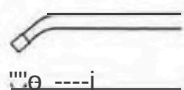
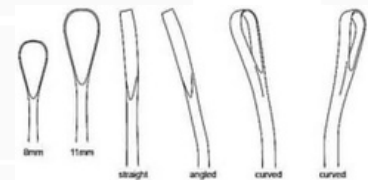
50-449-23 Cone
Ring Curette
23 cm / 9"



- A: Straight 8mm Sharp/Blunt
- B: Straight 11 mm Sharp/Blunt
- C: Angled 8mm Sharp/Sharp
- D: Angled 11 mm Sharp/Sharp
- E: Angled 8mm Sharp/Sharp Right Cvd
- F: Angled 11 mm Sharp/Sharp Right Cvd

- G: Angled 8mm Sharp/Sharp Left Cvd
- H: Angled 11 mm Sharp/Sharp Left Cvd

50-450-00 Zielke Ring Curette 34 cm / 13 1/2" TEFLON Handle



17" Angled 40°
3mm Diameter
2.7" Tip Length
9.3" Shaft Length
5" Handle Length
.285 (7.2mm)
Shaft Diameter



50-451-00 Cone Ring Curette Endoscopic Fibre Handle



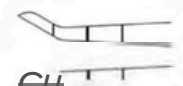
20" Angled 30°
6mm Diameter
3 1/2" Tip Length
10" Shaft Length
6 1/2" Handle Length
.45" (11.5mm)
Shaft Diameter



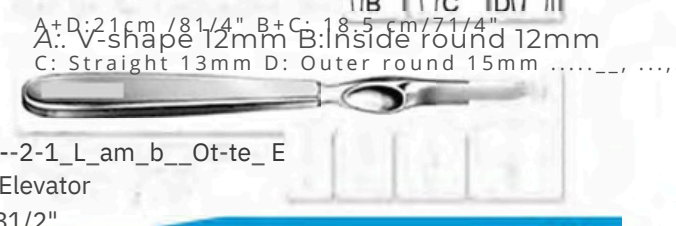
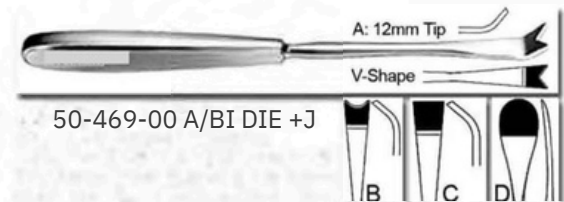
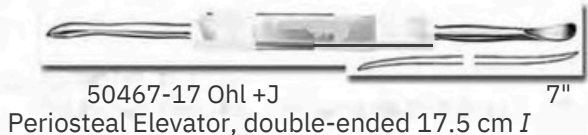
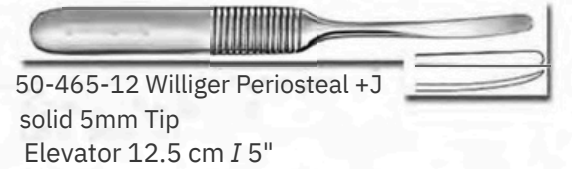
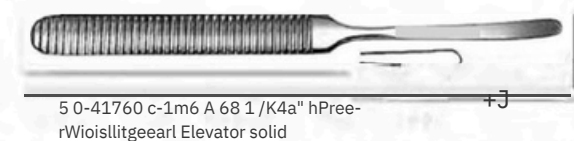
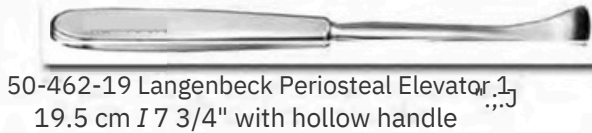
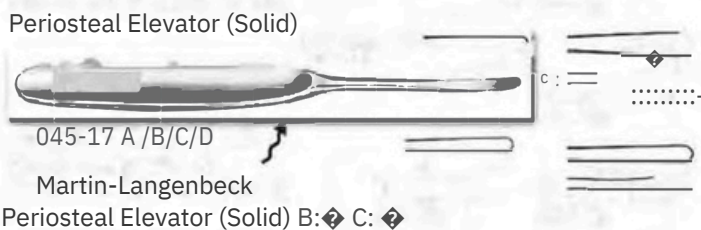
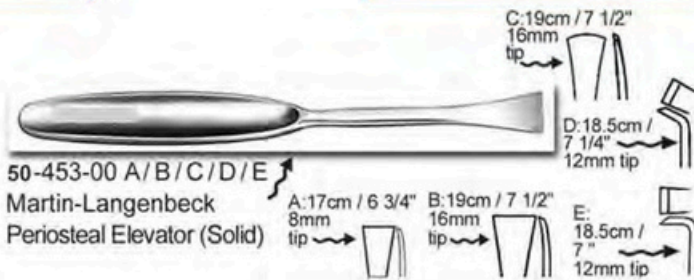
17" Reverse
Angled 40°
3mm x 6mm cup
2.7" Tip Length
9.3" Shaft Length
5" Handle Length
.285 (7.2mm)
Shaft Diameter

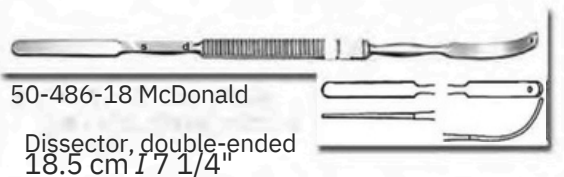
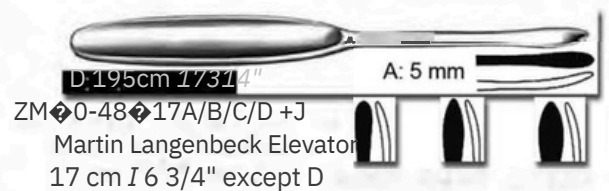
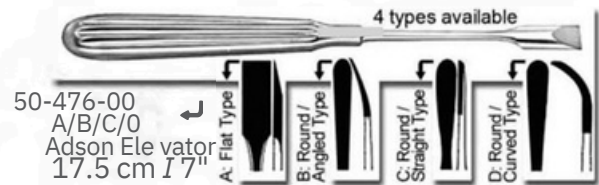
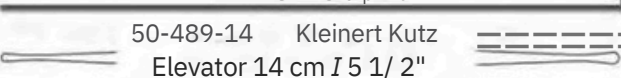
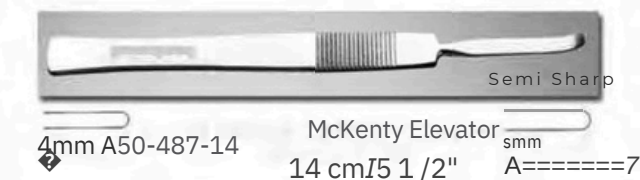
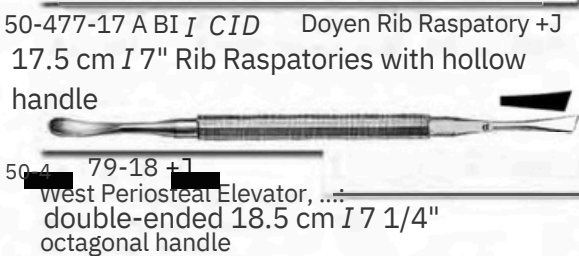
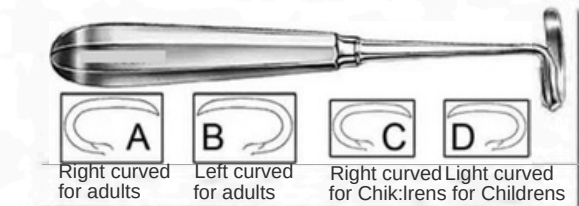


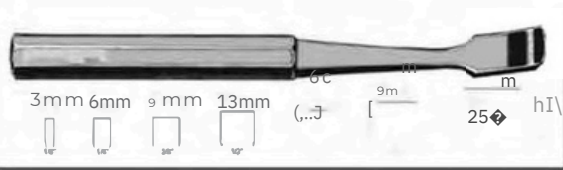
50-452-00 Epstein Curette Endoscopic Fibre Handle



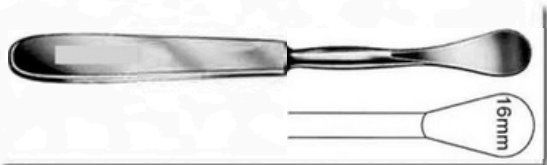
20" Reverse
Angled 30°
6mm x 9mm cup
3 1/2" Tip Length
10" Shaft Length
6 1/2" Handle Length
.45 (7.2mm)
Shaft Diameter







50-492-19 Key Elevator 19 cm 7 1/2" Sharp Edge

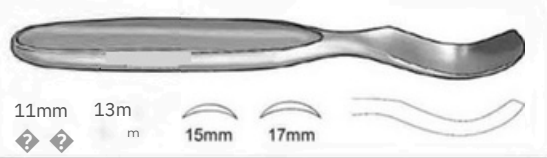


50-494-18 Sedilot Elevator 18 cm 7" Sharp Edge

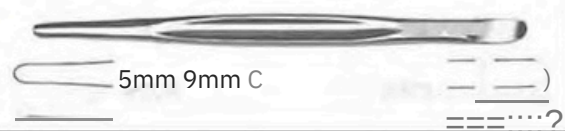


A-zM-50-496-20 Alexander 50-497-17 Periosteal Elevator

Periosteal Respiratory
20 cm 8" 12mm Sharp



50-498-16 McGlamry Metatarsal Elevator
16 cm 6 1/2" Sharp



50-493-16 Sayre Elevator 16 cm 6 1/2" A: Sharp B: Blunt



50-495-17 Kirmission Periosteal Respiratory 17 cm 6 3/4"



17cm/6 3/4"
Fibre Handle 13mm Blade Sharp



50-499-19 Crego Periosteal Elevator
19 cm 7 3/4" Sharp

A: 14mm Full Curves B: 14mm Slight Curves

A B C



50-500-00 Chandler Elevator Blunt

A: 19cm 17 1/2" 13mm B: 20cm 8" 19mm
C: 23cm 19" 25mm D: 25.5cm 10" 30mm

50-501-00 Darrach Elevator Blunt

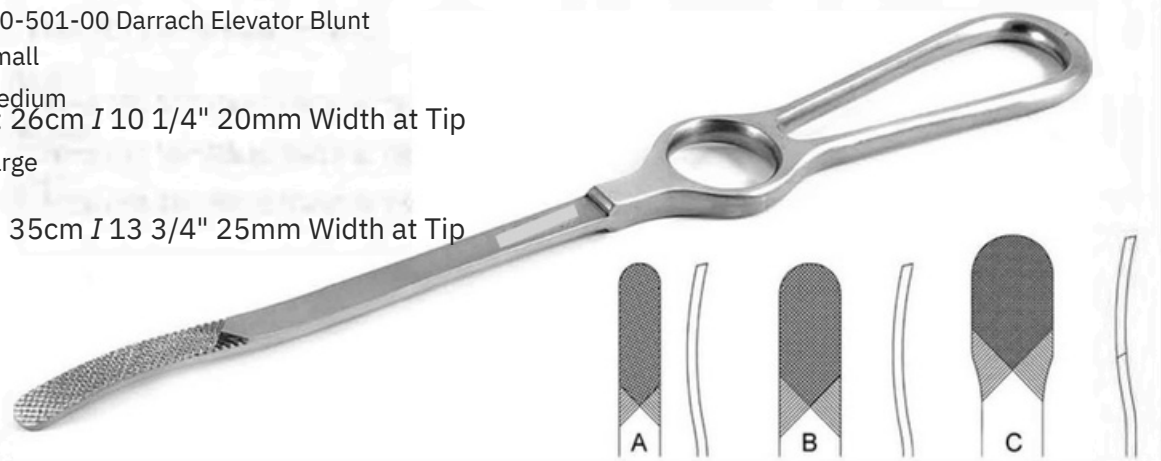
Small

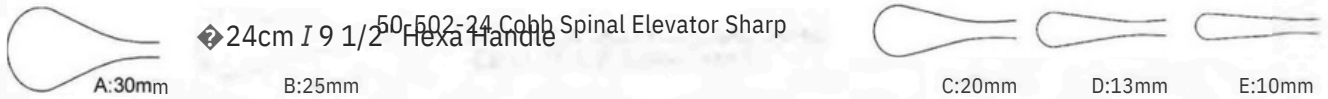
Medium

B: 26cm 10 1/4" 20mm Width at Tip

Large

C: 35cm 13 3/4" 25mm Width at Tip





50-502-24 Cobb Spinal Elevator Sharp
24cm I 9 1/2" Hexa Handle



Also Available
in Fibre Handle
with Same
Sizes
of Blades
-503-25
25cm I 10"

B:25mm

C:20mm D:13mm

E:10mm



50-504-28 Cobb Spinal Elevator Sharp
28cm 11" Knurled Handle



50-505-00 Cobb Elevator Endoscopic Sharp Fibre Handle

A: 43cm I 17"	B: 50cm I 20"	C: 50cm I 20"	D: 50cm I 20"
6mm Tip Width	6mm Tip Width	10mm Tip Width	13mm Tip Width
2.7" Tip Length	3 1/2" Tip Length	3 1/2" Tip Length	3 1/2" Tip Length
9.3" Shaft Length	10" Shaft Length	10" Shaft Length	10" Shaft Length
7.2mm Shaft Dia	11.5mm Shaft Dia	11.5mm Shaft Dia	11.5mm Shaft Dia



50-506-43 Rib Elevator Endoscopic Sharp Fibre Handle
43cm length 8" 17" Shaft

A: 90°
11.5mm Tip Radius - 4" Tip L
Length - 5" Handle Length
11.5mm Shaft Dia



50-507-33 Wagner Elevator Sharp Fibre Handle
33cm I 13"
A: 8mm Wide B: 17mm Wide



Note: Handle Shown In Dark Colors are Made of FIBRE Material

50-509-19 Lucae Mallet 19.5cm 7 3/4"

Available in 19mm Ø / 230 gms r---1
2 sizes 25mm Ø / 260 gms r---J

so-510-19 Cottle Mallet Plane I Convex

19cm I 7 30mm Ø / 300 gms

1/2" 20mm Ø / 140 gms

50-512-16 Williger Mallet
16.4cm I 6 1/2"

50-514-26 Mallet 26 cm / 10 1/4"

30mm Ø / 510 gms

50-516-19 Mead Mallet
19 cm I 7 1/2"

27mm Ø I 320 gms
with interchangeable plastic disks

50-518-19 Partsch Mallet

22mm Ø / 200 gms
19 cm I 7 1/2" with hollow handle

so-520-26 Mallet 26 cm I 10 1/4"
with lead filling

Also available without
lead filling 42mm Ø / 400 gms

ZM-50-521-26 Mallet
26 cm / 10 1/4"

without lead filling 42mm Ø / 400 gms

50-523-24 Williger Mallet

24 cm I 9 1/2" lead filled
Available Head Sizes & Approximate Weight
26mm Ø / 300 gms 28mm Ø I 340 gms
30mm Ø I 400 gms

50-SOB-26 Mallet 30mm Ø I 675 9 ms
26.5 cm I 10 1/2"

plane (Teflon) convex (steel)

50-511-26 Mallet 26 cm / 10 1/4"

42 I 30mm Ø I 530 gms

so-513-24 Mallet 24 cm / 9 1/2"

30mm Ø / 480 gms

50-515-24 Mallet 24 cm / 9 1/2"
Disks and handle of

37mm Ø / 370 gms

Spare facings (Pair)

50-517-22 30mm Ø / 125 gms

Mallet 22 cm / 8 3/4"

50-519-26 Mallet 26.5 cm / 10 1/2"

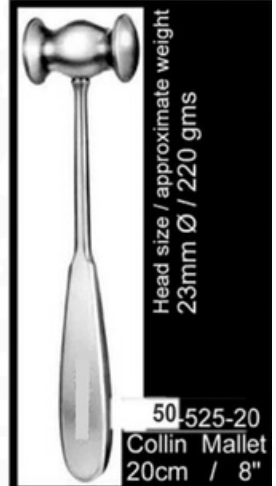
30mm Ø I 450 gms

50-522-00 A/8/C Doyen Mallet

Available Length I Head Sizes & Approximate Weight
A: 20.5cm / 8" 25mm Ø / 120 gms B:
21cm / 8 1/4" 30mm Ø / 180 gms C:
21.5cm I 8 1/2" 35mm Ø / 260 gms

50-524-19 Herbert Mallet
19 cm I 7 1/2"

for ulnar head
prosthesis



BONE MALLET

*Note: Handle Shown In Dark Colors
are Made of FIBRE Material*



50-528-20
Kirk Mallet 20cm I 8"
Head Dia 38mm/Weight: 1 lb. 4 oz. (570 grams)



Head Weight: 7 oz (200 grams)
50-529-19 Gerzog Mallet 19cm I 7 1/2"
Head Dia 25mm/Weight 10 oz (285 grams)

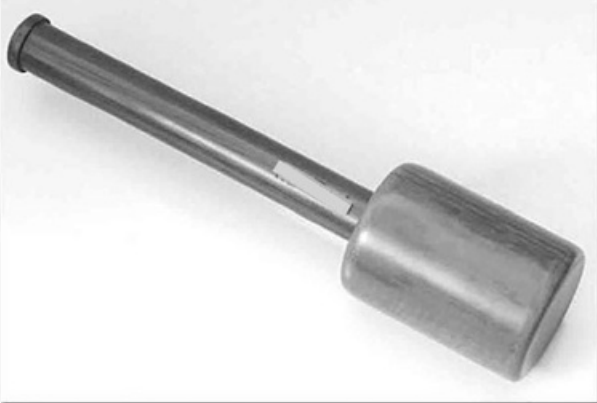


Head Weight: 20 oz (567 grams)
50-530-19 Heath Mallet
19cm I 7 1/2"
Head Dia 40mm/Weight 2 lbs. (907gm)

Head Weight: 20 oz (567 grams)



50-533-18 Heath Mallet, SS
18cm I 7" Solid Frame Handle
Head Dia 40mm/Weight 36 oz. (1020gm)



50-536-24 All Fibre Mallet 24cm I 9 1/2"
Head Dia 80X60mm Weight 14oz. (397gm)



50-531-19
Cloward Mallet
19cm I 7 1/2"
Head Dia 20mm
Weight 8oz. (227gm)



50-532-20
Hajek Mallet
20cm I 8"
Head Dia 27mm
Weight 7oz. (198gm)

Fibre Handle



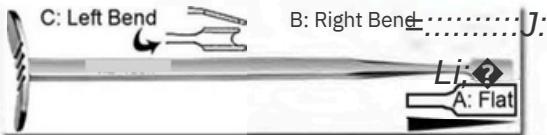
50-534-20 Narrow Tip Mallet 20cm I 8"
Head Dia 7mm Weight 6oz. (170gm)



50-535-23 Fibre Handle Mallet 23cm I 9"
Head Dia 30mm/Weight 12 oz. (340gm)
Also Available in:
Head Dia 35mm/Weight 11b 40 oz. (570gm)
Head Dia 40mm/Weight 11b 90 oz. (708gm)



50-537-28 He-Man Mallet 28cm I 11"
Head Dia 38mm I 24mm
Weight 21b (906gm)



50-538-18 Smillie Meniscus Knife 18 cm 7"



50-539-18 Meniscus Knife 18 cm 7"



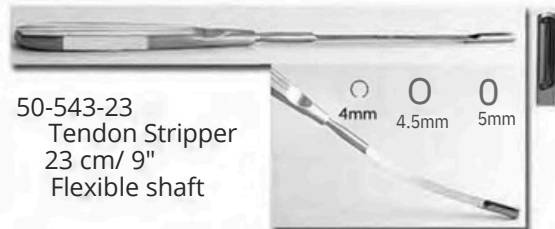
50-540-22 A / B Neff Meniscus Knife 22 cm / 8 3/4"



50-541-21 A / B Salenius Meniscus Knife
21 cm / 8 1/4" A: Right / B: Left



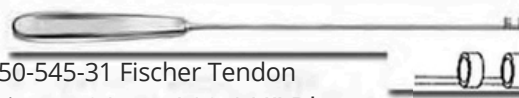
50-542-15 Bunnell Tendon Stripper 15 cm / 6" 1 3/4 mm 6 mm



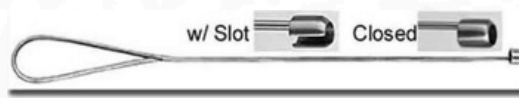
50-543-23 Tendon Stripper
23 cm / 9" Flexible shaft



50-544-33 Tendon Passing Instrument 33.5 cm / 13 1/4"



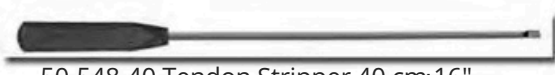
50-545-31 Fischer Tendon Stripper 31 cm / 12 1/4" Blunt



50-546-28 Tendon Stripper 3/4 5 6 mm
A: 28.5 cm / 11 1/4" B: 60 cm 24"



50-547-23 Bunnell Tendon Passer 23 cm / 9" Malleable



50-548-40 Tendon Stripper 40 cm 16"
Fibre Handle



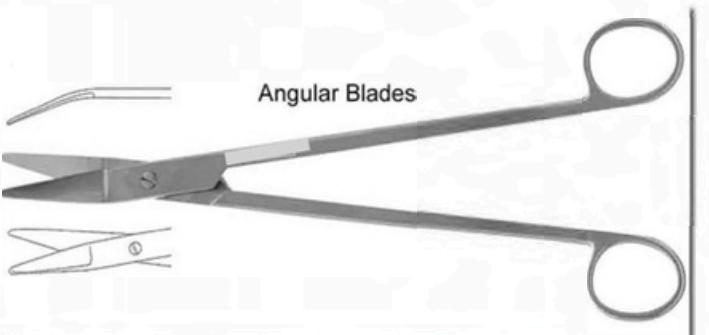
50-549-25 Lowe Breck Cartilage Knife
25 cm / 10" Str Edge-Cvd Blade w/ Guards

50-550-25 Downing Cartilage Knife
25 cm / 10" Concave Edge Cvd Blade w/ Guards



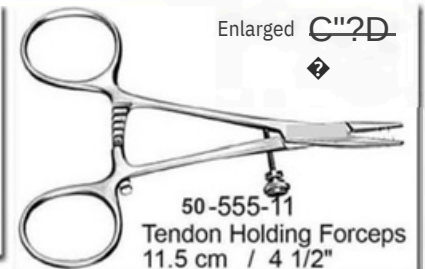
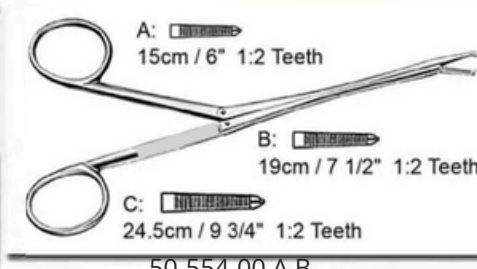
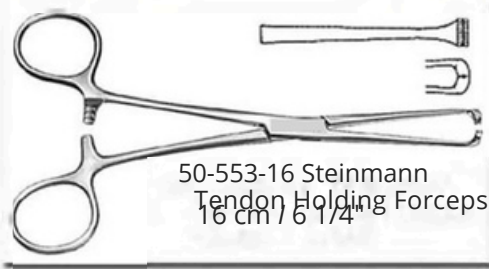
◆ Cvd Serrated Blades

50-551-20 Martin Cartilage Scissors 20 cm 8"

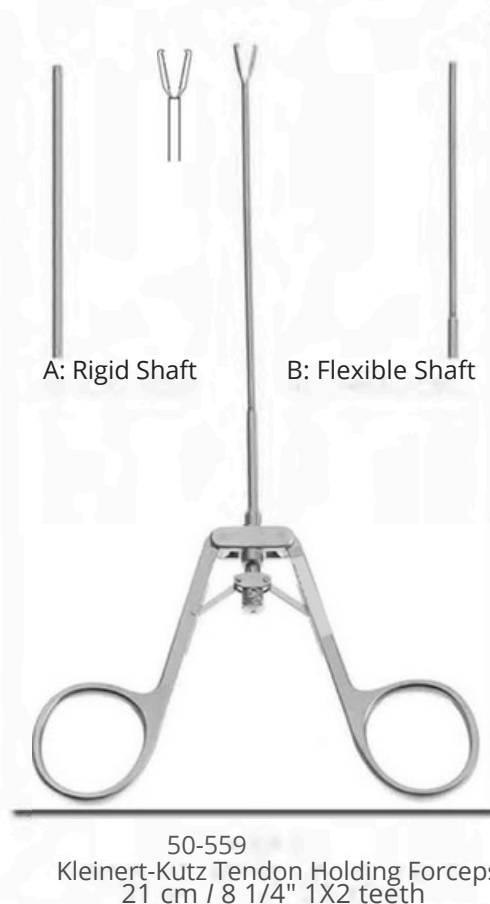
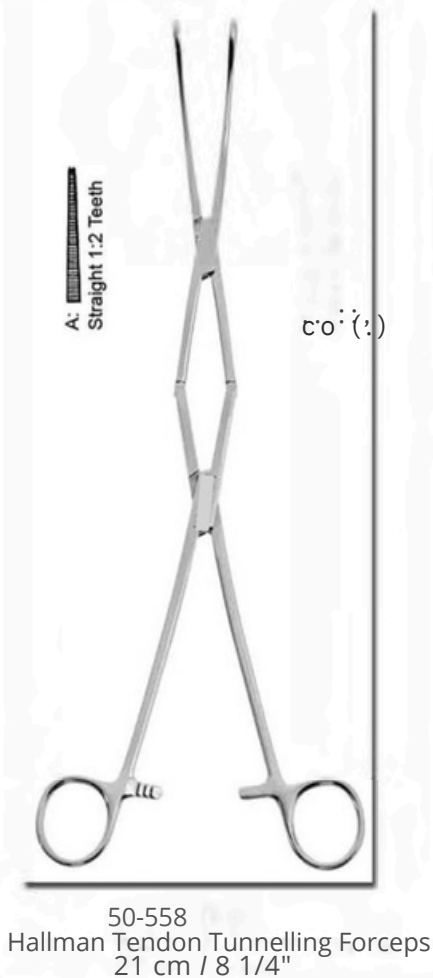
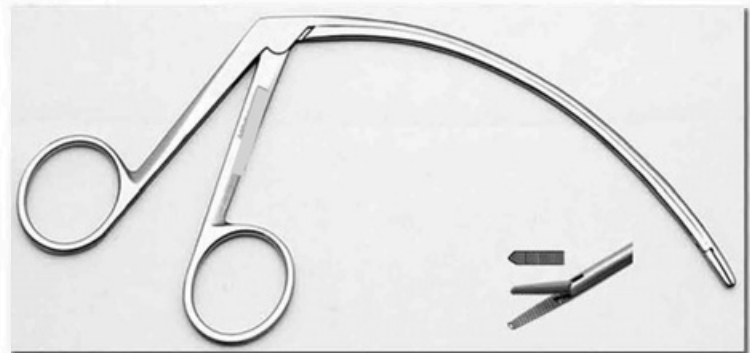
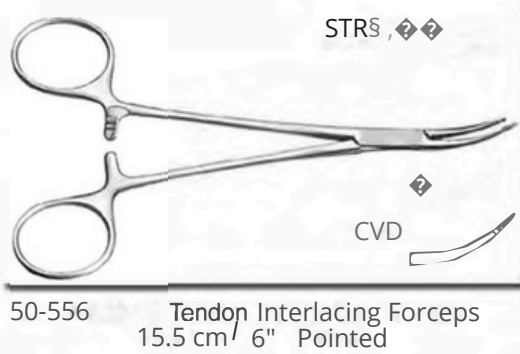


Angular Blades

50-552-24 Mueller Capsule Scissors 24 cm 9 1/2"

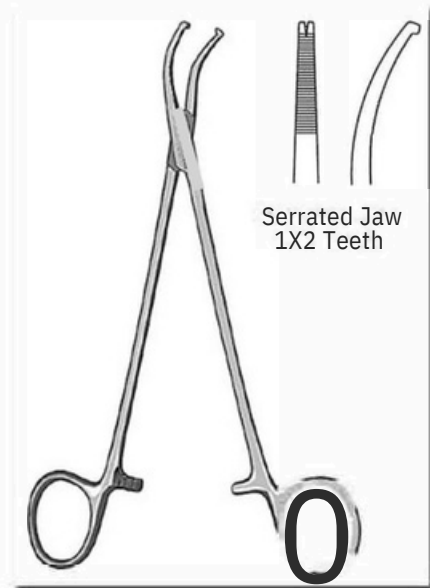


Brand Tendon Tunnelling Forceps





50-561-13
Meniscus Clamp
13.5 cm / 5 3/8" 1X2 teeth



50-562-18
Preston Ligamentum Flavum Forceps
(Meniscus) 18.5 cm / 7 1/4"

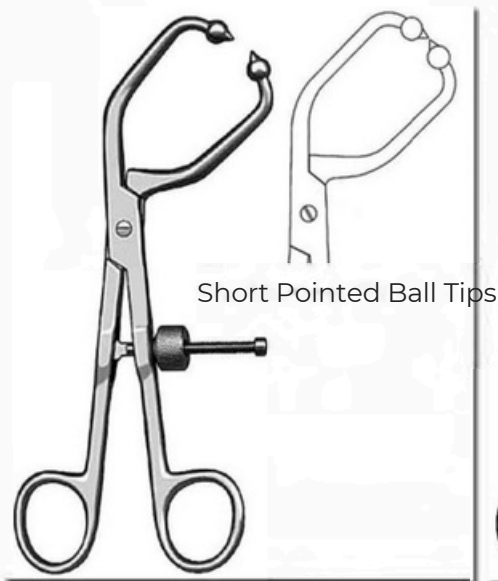


Straight

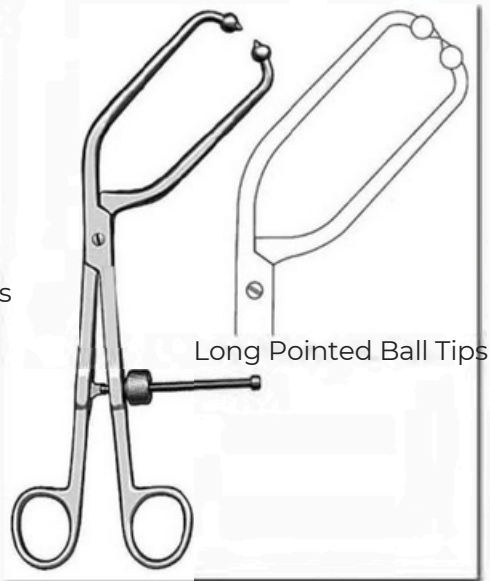


Angled

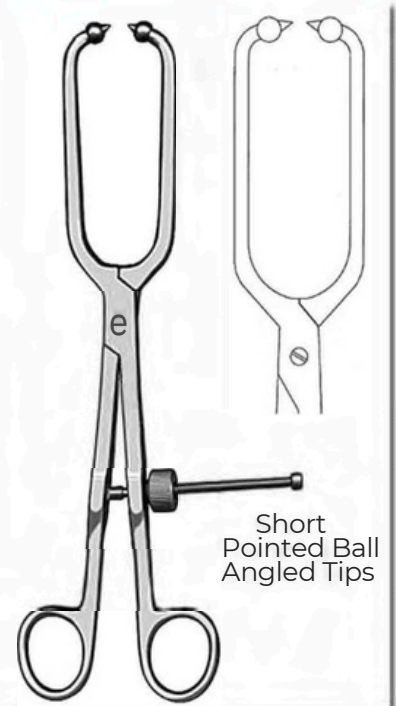
50-563-21
Ortho Grasper 21 cm / 8 1/2"
7 X 20 MM Bite



50-564-19 Pelvic Reduction Forceps
19 cm / 7 3/8" Angular



50-565-24 Pelvic Reduction Forceps
24.5 cm / 9 5/8" Angular

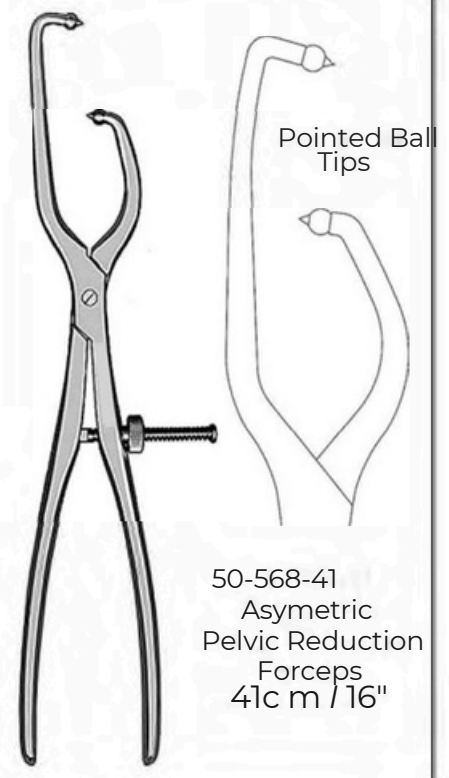


50-566-25
Pelvic Reduction Forceps
25 cm / 10"



50-567-00
Pelvic Reduction Forceps

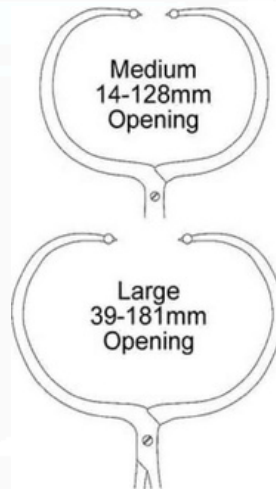
Available in 2 Sizes
A: 24 cm / 9 1/2"
B: 41cm/16"



50-568-41
Asymmetric
Pelvic Reduction
Forceps
41 cm / 16"



1X2
Tips



Medium
14-128mm
Opening

Large
39-181mm
Opening

50-570-38
Periarticular
Reduction Forceps
Straight
Pointed Ball Tips
38cm

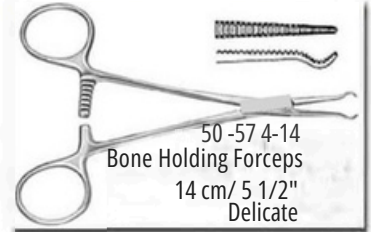
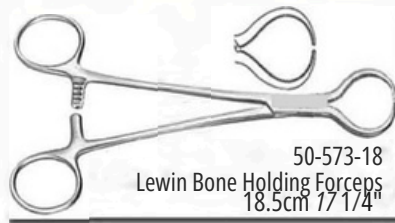


50-569-41
Pelvic Reduction Forceps
Long1X2
Pointed Ball Tips
41 cm/ 16"



50-571-00
Pelvic
Reduction Forceps
Adjustable Jaws for Screws
A: 25 cm / 10"
B: 33 cm / 13"

BONE HOLDING FORCEPS

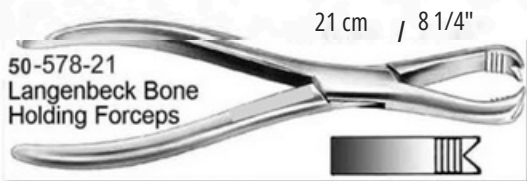


50-575-18 Frosch Bone
Holding Forceps 18 cm

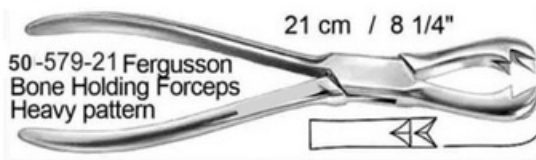
/ 7"

50-576-20 Bone Holding
Forceps 20 cm / 8"

50-577-19 Semb Bone Holding
Forceps 19 cm / 7 1/2"



21 cm / 8 1/4"



21 cm / 8 1/4"

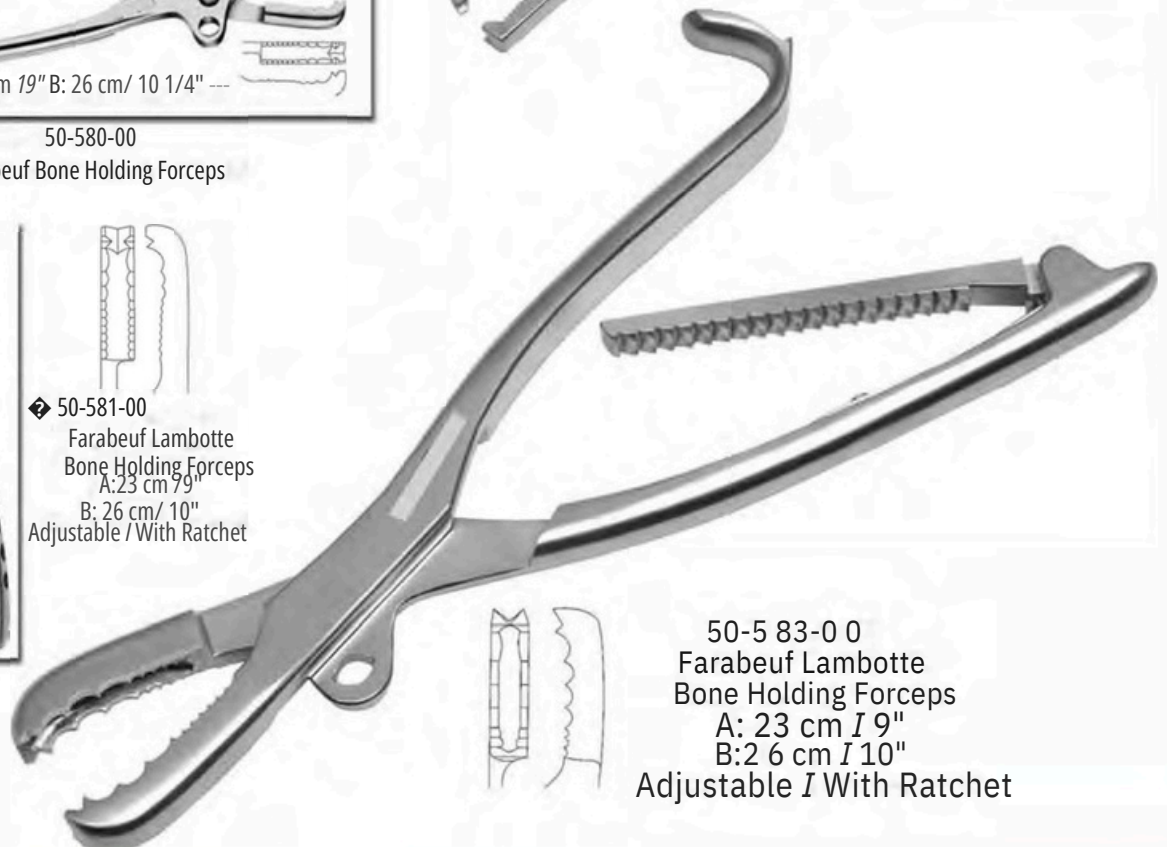


50-580-00

Farabeuf Bone Holding Forceps



50-581-00
Farabeuf Lambotte
Bone Holding Forceps
A: 23 cm 9"
B: 26 cm / 10"
Adjustable / With Ratchet



50-583-00
Farabeuf Lambotte
Bone Holding Forceps
A: 23 cm / 9"
B: 26 cm / 10"
Adjustable / With Ratchet

50-584-00 Lambotte
Bone Holding Forceps w/ Swivel
Head, Adjustable Jaw

A: 22 cm 8 3/4"
A: 27 cm 10 3/4"
A: 30 cm 11 3/4"

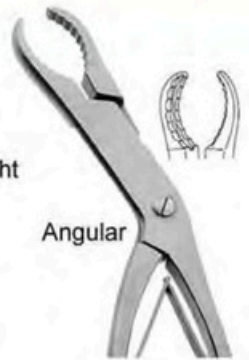


50-585-19 Ulrich
Bone Holding Forceps
w/ Thread Fixation
19 cm 17 1/4"



Straight

Angular



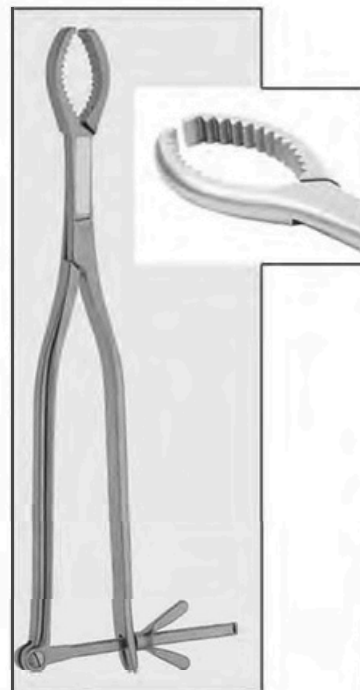
50-587-00
Ulrich
Bone Holding
Forceps
Thread Fixation
w/ A: 23 cm 9"

A: 25 cm 9 3/4"
A: 28 cm 11"

50-586-00
Self Centering
Bone Holding
Forceps
w/ Thread Fixation

Available in:

Available in:
A: 15 cm 6"
B: 19 cm 17 1/2"
C: 24 cm 9 1/2"
D: 26 cm 10 1/4"
E: 28 cm 11"



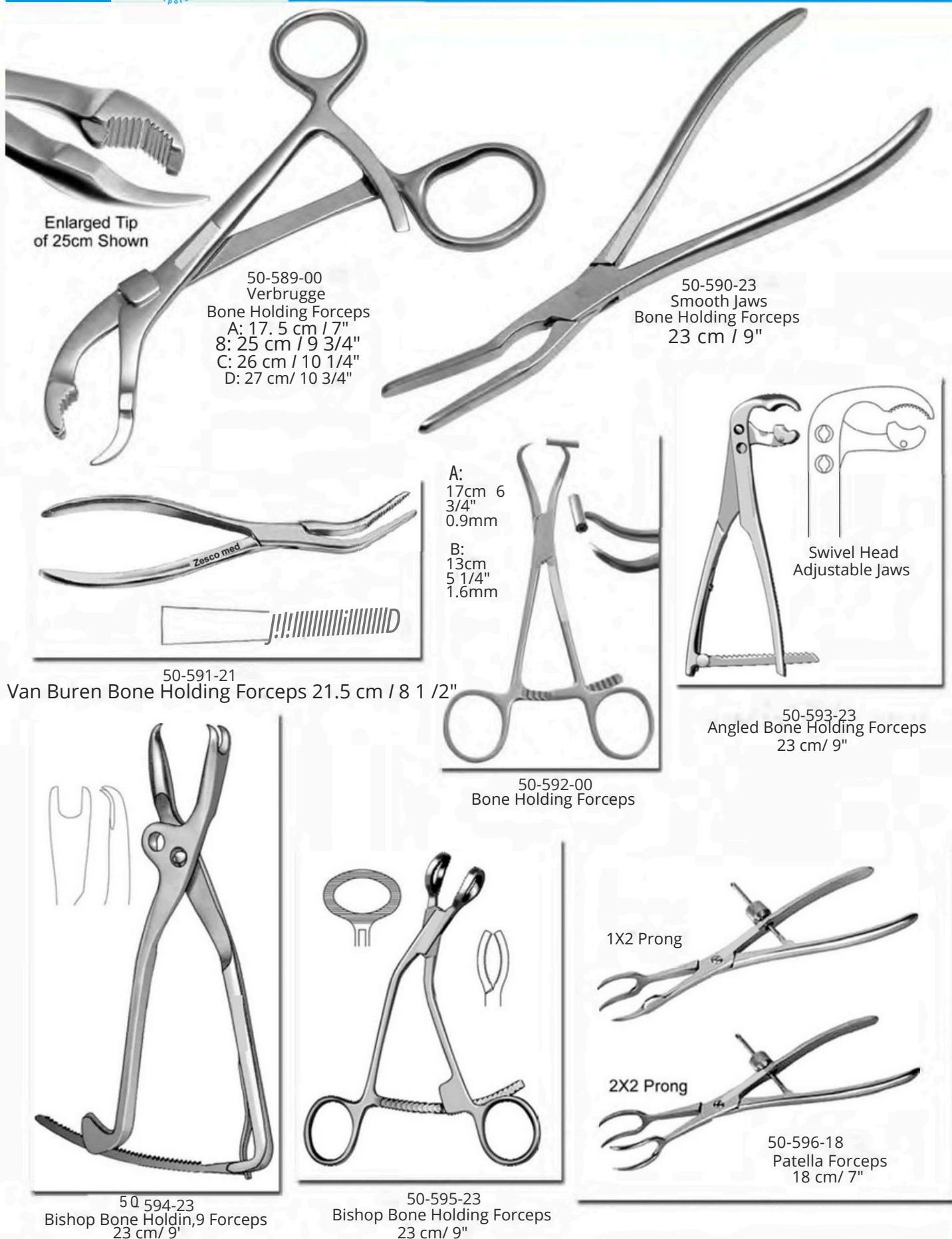
50-588-00
Hey Groves
Bone Holding Forceps
A: 20 cm 8"
B: 25 cm 10"
C: 30 cm 12"



50-588-008
without
Ratchet

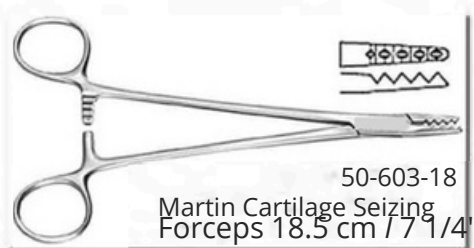


50-588-00A
Lane Bone Holding Forceps
w/ Ratchet
A: 33 cm 13"
B: 45 cm 17 3/4"





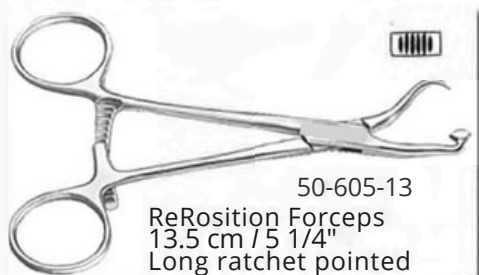
50-602-00
Walton
Cartilage Seizing Forceps
20.5 cm / 8"
A: Straight
B: Upward Cvd
C: Sideward Cvd



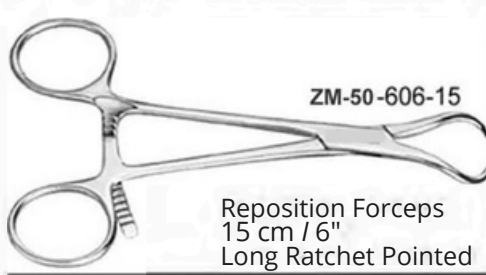
50-603-18
Martin Cartilage Seizing
Forceps 18.5 cm / 7 1/4"



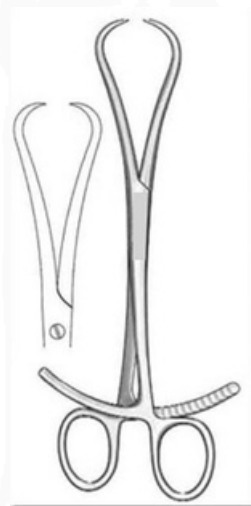
50-604-18
Dingmann Cartilage Seizing
Forceps 18.5 cm / 7 1/4"



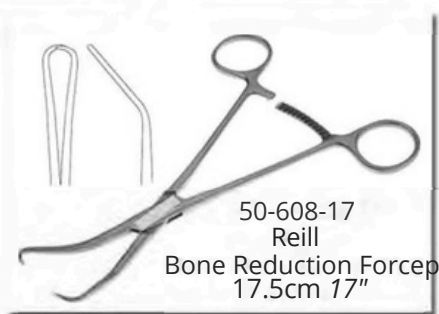
50-605-13
ReRosition Forceps
13.5 cm / 5 1/4"
Long ratchet pointed



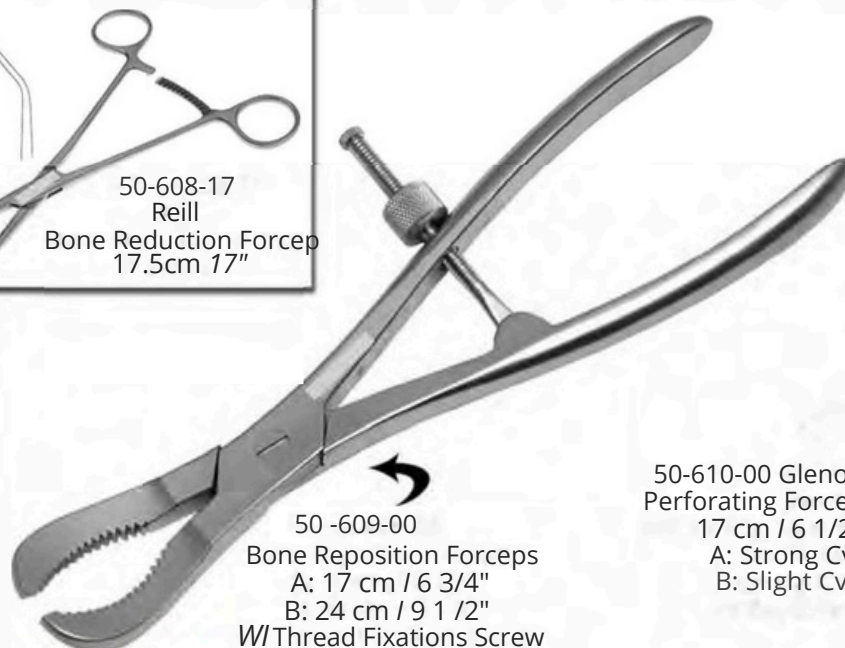
ZM-50-606-15
Reposition Forceps
15 cm / 6"
Long Ratchet Pointed



50-607-20
Walton Bone
Reduction Forceps
20.5 cm / 8"
2" Double Ratchet
Opening 9-100mm

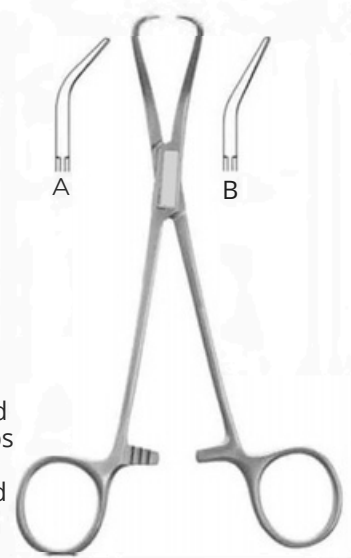


50-608-17
Reill
Bone Reduction Forcep
17.5cm / 7"

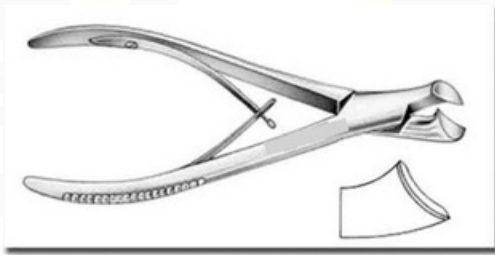


50-609-00
Bone Reposition Forceps
A: 17 cm / 6 3/4"
B: 24 cm / 9 1/2"
W/Thread Fixations Screw

50-610-00 Glenoid
Perforating Forceps
17 cm / 6 1/2"
A: Strong Cvd
B: Slight Cvd



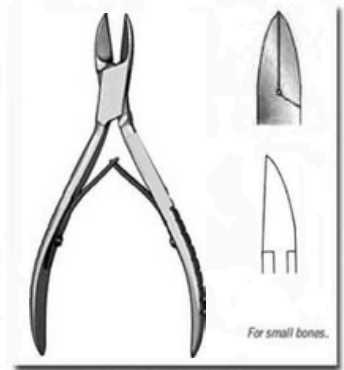
BONE CUTTING FORCEPS



50-611-00
Marwalder Bone Nipper 18.5 cm / 7 1/4"



50-612-00
Cottle Kazanjian Bone Cutting Forceps
18.5 cm / 7 1/4"



50-613-00
Littauer Bone Cutting Forceps
15 cm / 6"



50-614-00
Liston Bone Cutting Forceps

14 cm / 5 1/2"
Straight



20 cm / 8"
Straight

14 cm / 5 1/2"
Curved



20 cm / 8"
Curved

17 cm / 6 3/4"
Straight



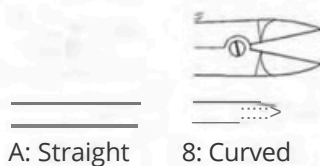
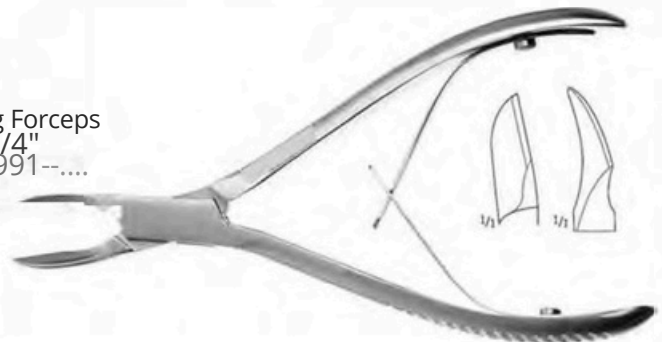
22 cm / 8 3/4"
Straight

17 cm / 6 3/4"
Curved



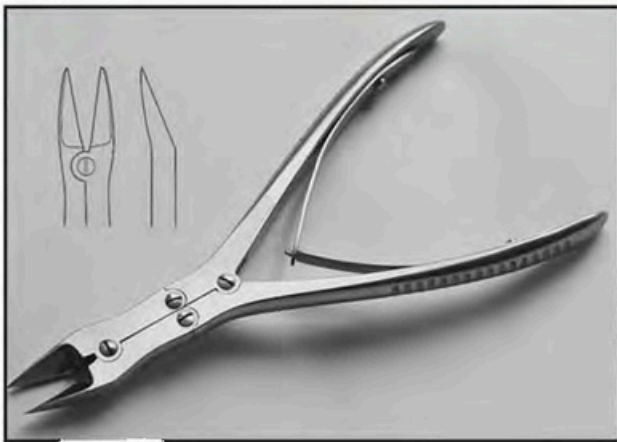
22 cm / 8 3/4"
Curved

50-615-00
Cleveland Bone Cutting Forceps
A: 14.5 cm / 5 3/4"
8: 17 cm / 6 3/4" - 1991-....



50-616-14
Kleinert-Kutz / Bohler Bone Cutting
Forceps 14.5 cm / 5 3/4"





ZM---so-621-18
M c Indoe
Bone Cutti-n g Fo"r ceps
18 cm / 7"
Delicate Blades



ZM-50-622-25
Stille-Horsley / Liston Key
Bone Cutting Forceps
25.5 cm / 10"

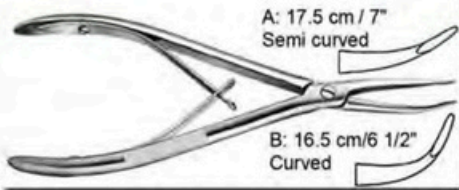
450 Angled



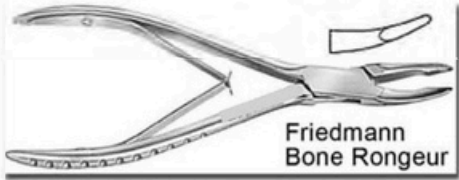
900 Angled

Angled On Side

50-623-24
Cutti-n g SFOerm Boen
cm I 9 3/4 ceb" p s24.5



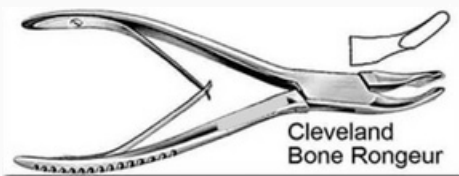
ZM-50-624-00 Stellbrink Bone Rongeur



50-625-00 A: 12.5cm / 5"
B: 13.5cm / 5 1/4"



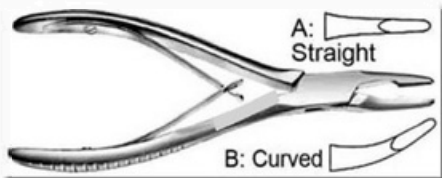
50-626-13 13.5 cm I 5 1/4"



50-627-00
A: 13.5 cm I 5 1/4" B 16.5 cm I 6 1/2"



50-628-16 Mead Bone Rongeur
16.5 cm I 6 1/2"

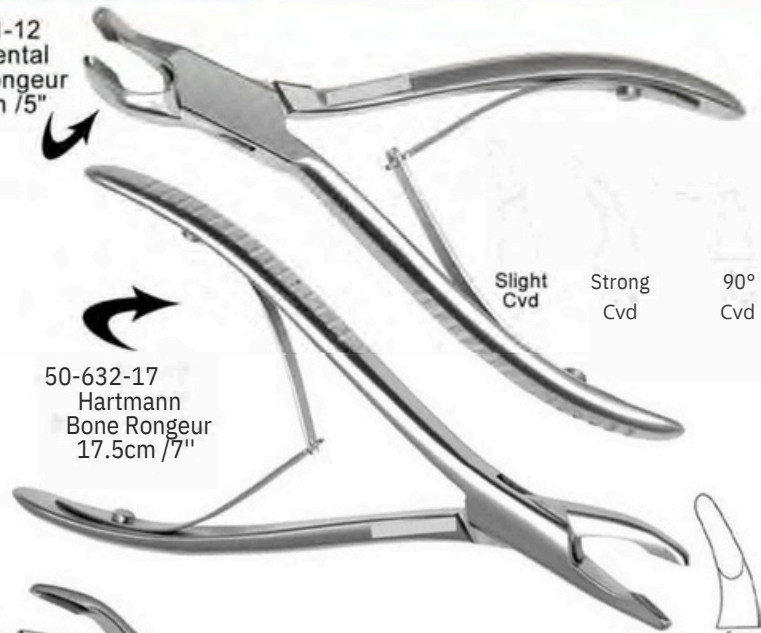


50-629-18 Jansen
Bone Rongeur 18 cm I
7"

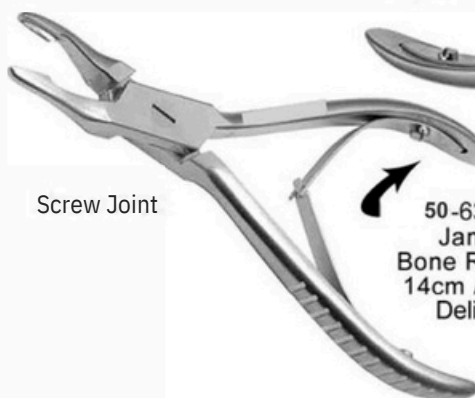
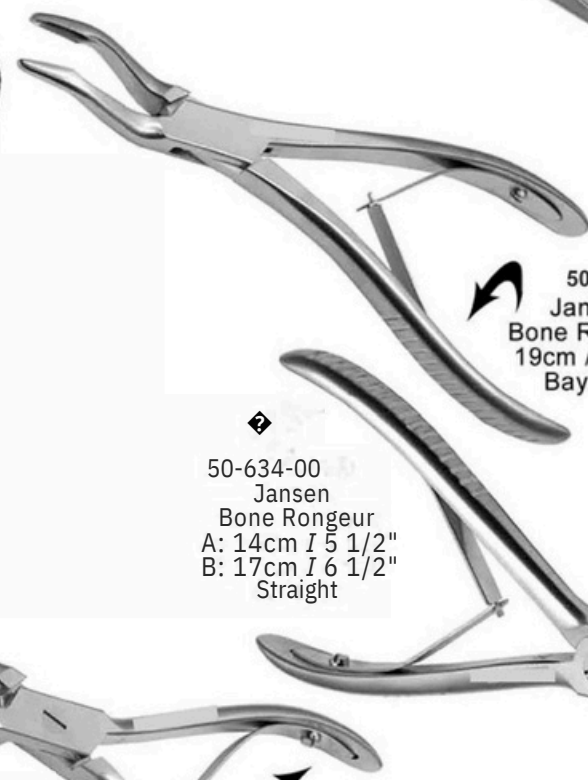


50-630-19 Lempert Bone Rongeur
19 cm I 7 1/2"

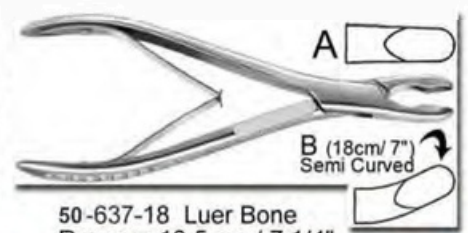
50-631-12
Blumental
Bone Rongeur
12.5cm / 5"



50-632-17
Hartmann
Bone Rongeur
17.5cm / 7"



50-636-14 Luer
Bone Rongeur 14.5 cm I 5 3/4"



50-637-18 Luer Bone
Rongeur 18.5 cm / 7 1/4"



50-638-15 Bohler Bone Rongeur
15.5 cm I 6"



50-639-18 Beyer Bone Rongeur
18 cm I 7"



50-640-18 Zaufal-Jansen
Bone Rongeur 18 cm I 7"



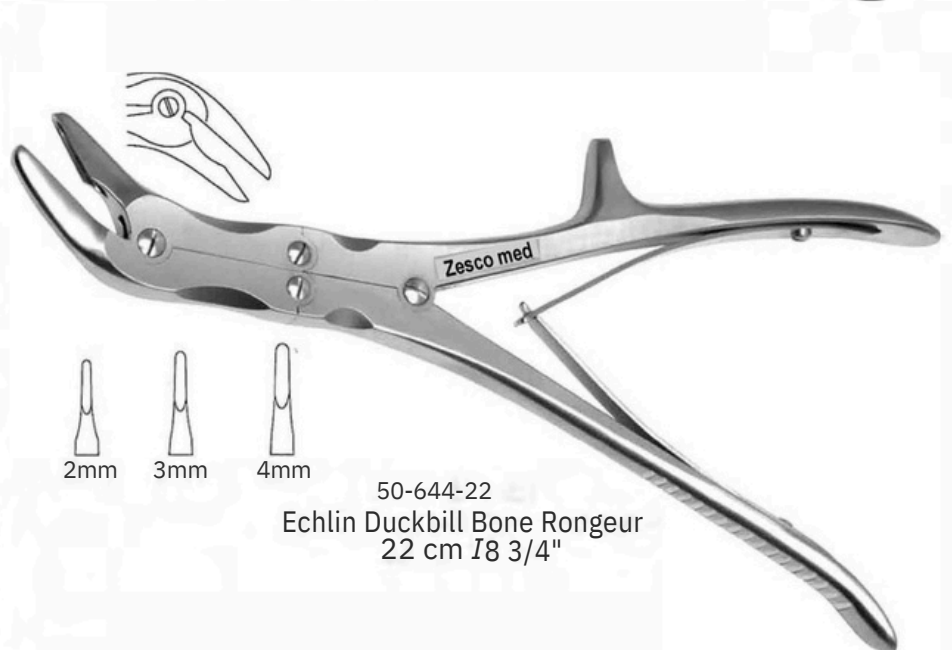
50-641-18 Mayfield
Bone Rongeur
18 cm I 7"



50-642-20 Marquard Bone
Rongeur 20.5 cm I 8"



50-643-22
Stille Bone Rongeur
22.5 cm I 8 3/4"



50-644-22
Echlin Duckbill Bone Rongeur
22 cm I 8 3/4"



50-645-00 Ruskin
Bone Rongeur

A: 18 cm I 7"

B: 24 cm I 9 1/2"

BONE RONGEURS - NIBBLERS



50-646-24
Leksell Stille
Bone Rongeur
24 cm I 9 1/2"

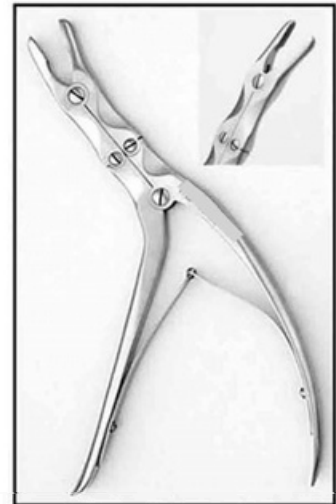
4mm 5mm

6mm 7mm 8mm

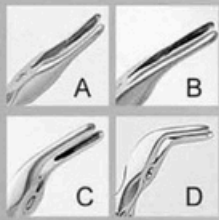
Same Size In



50-647-24 Leksell
Bone Rongeur
24 cm I 9 1/2"

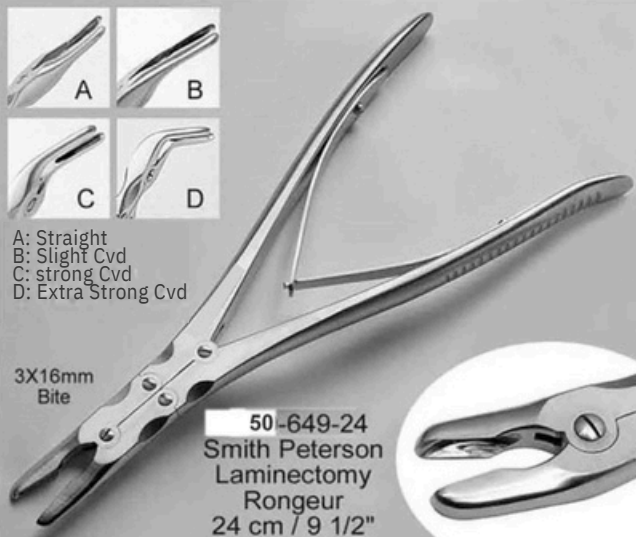


50-648-24
Leksell Bone Rongeur
24 cm I 9 1/2"
4/5/6 /7/Bmm



A: Straight
B: Slight Cvd
C: strong Cvd
D: Extra Strong Cvd

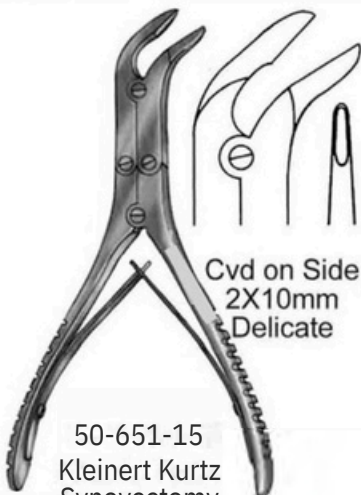
3X16mm
Bite



50-649-24
Smith Peterson
Laminectomy
Rongeur
24 cm I 9 1/2"

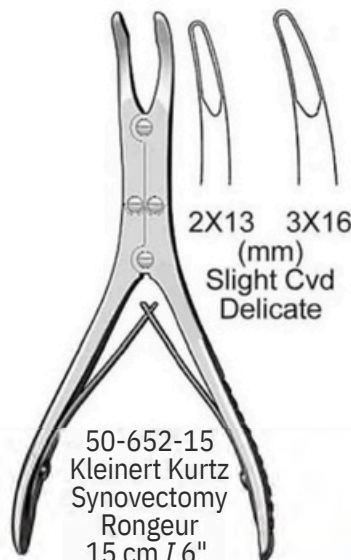


50-650-23 Leksell
Bone Rongeur
23 cm I 9"



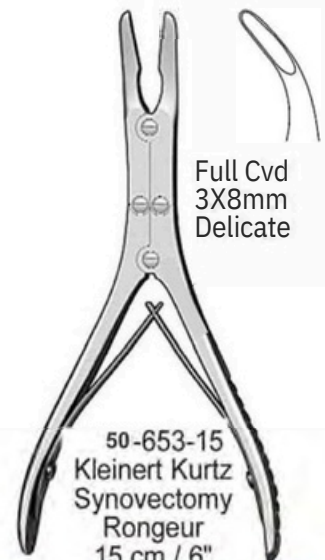
50-651-15
Kleinert Kurtz
Synovectomy
Rongeur
15 cm I 6"

Cvd on Side
2X10mm
Delicate



50-652-15
Kleinert Kurtz
Synovectomy
Rongeur
15 cm I 6"

2X13 3X16
(mm)
Slight Cvd
Delicate



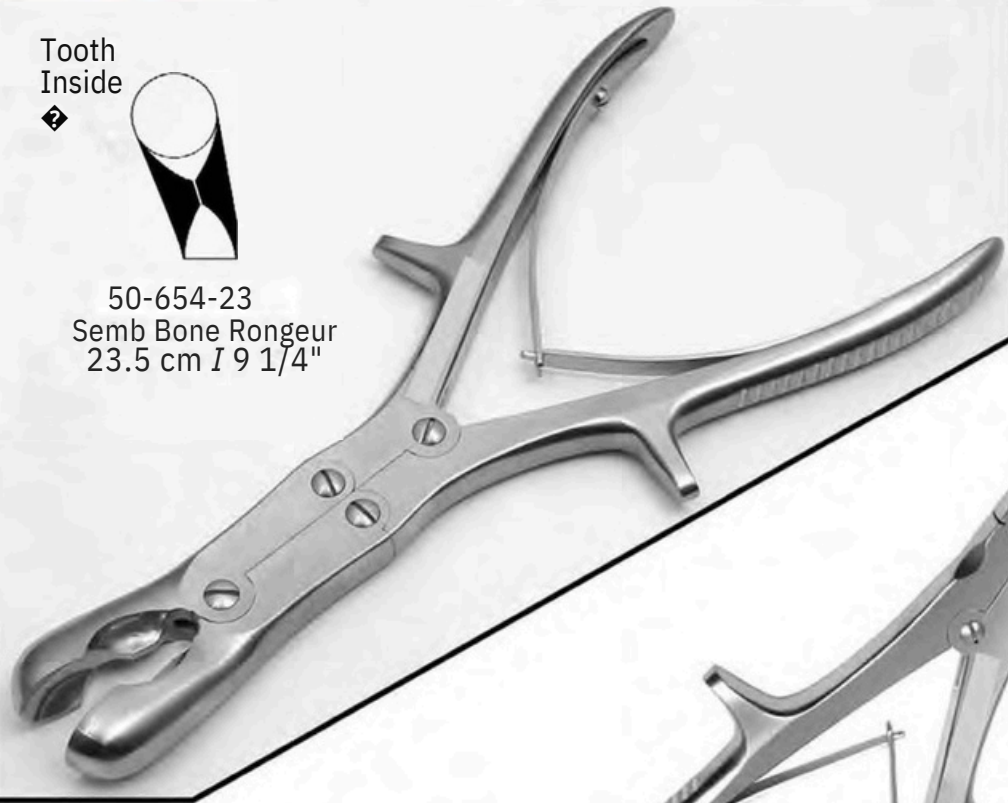
50-653-15
Kleinert Kurtz
Synovectomy
Rongeur
15 cm I 6"

Full Cvd
3X8mm
Delicate

Tooth
Inside

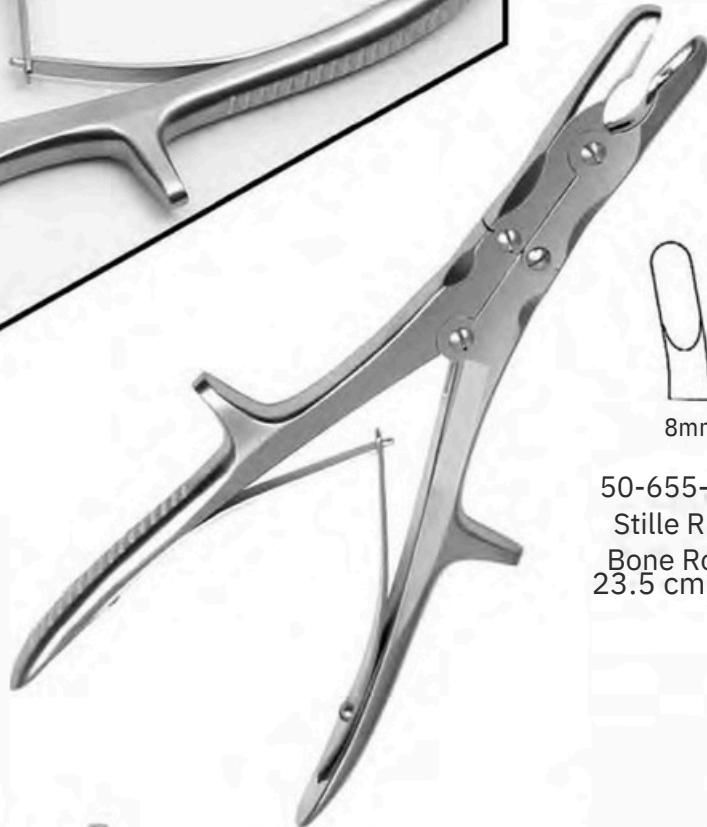


50-654-23
Semb Bone Rongeur
23.5 cm $9 \frac{1}{4}$ "

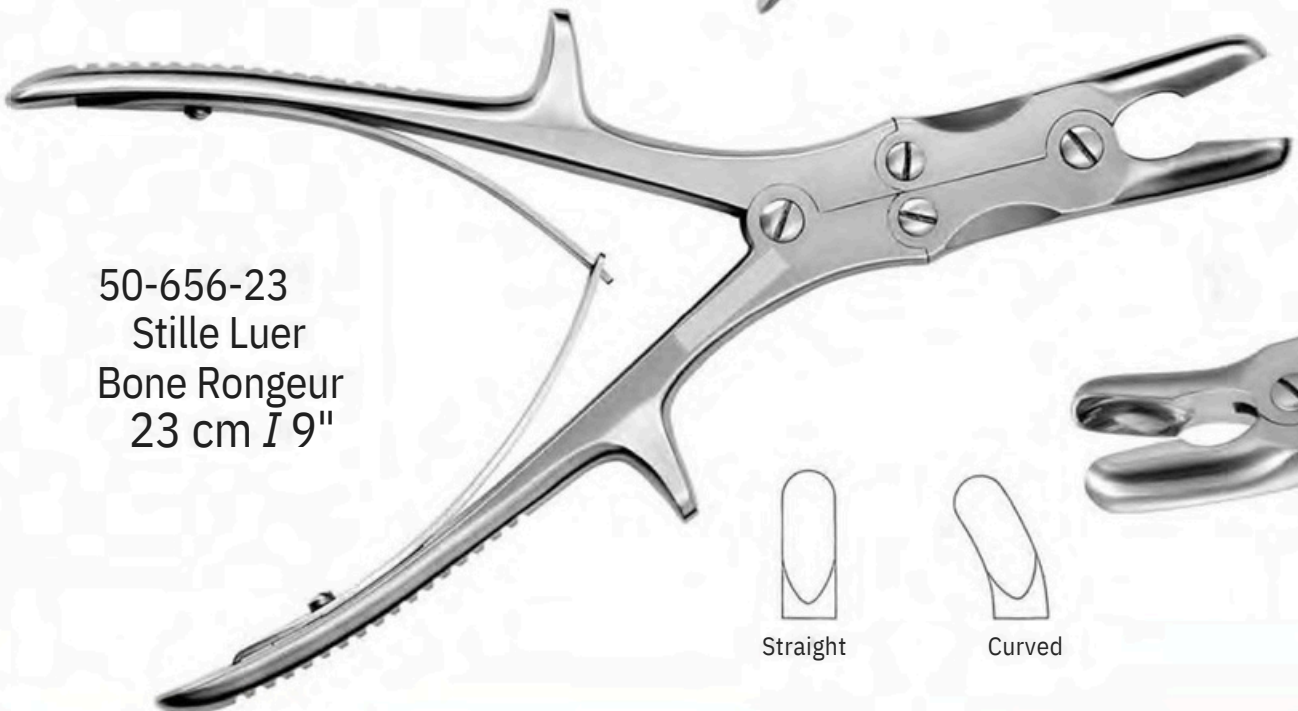


8mm

50-655-23
Stille Ruskin
Bone Rongeur
23.5 cm $9 \frac{1}{4}$ "



50-656-23
Stille Luer
Bone Rongeur
23 cm 9 "



Straight



Curved

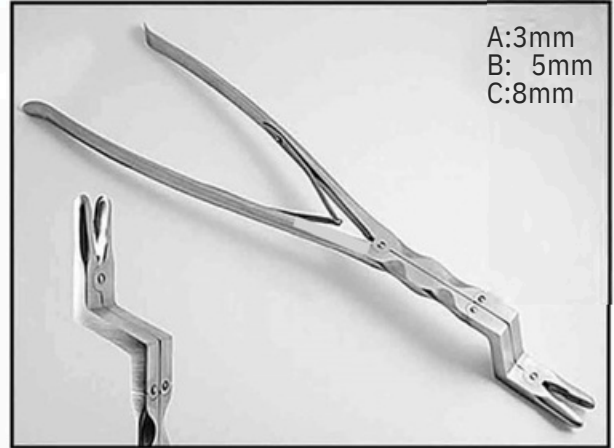


A: 25X2mm
B: 25X3mm



50 -658-18
Mainz Long Neck Bone Rongeur 18 cm I 7"

A:3mm
B: 5mm
C:8mm



50-659-41
Leksell Bayonet Rongeur 41 cm I 16"

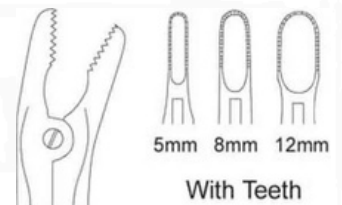


50-660-37
Sybert Rongeur 37 cm I 14 1/2"

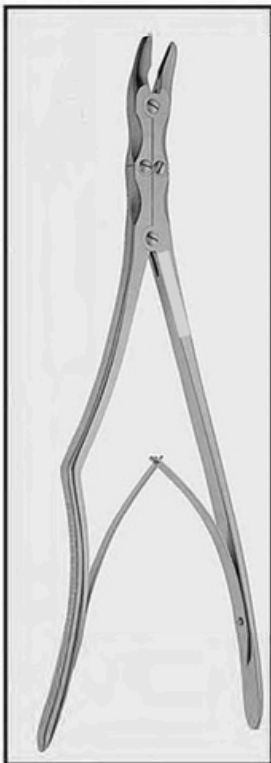
4X16mm 5X16mm

8X16mm 12X16mm

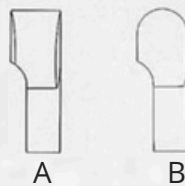
Standard



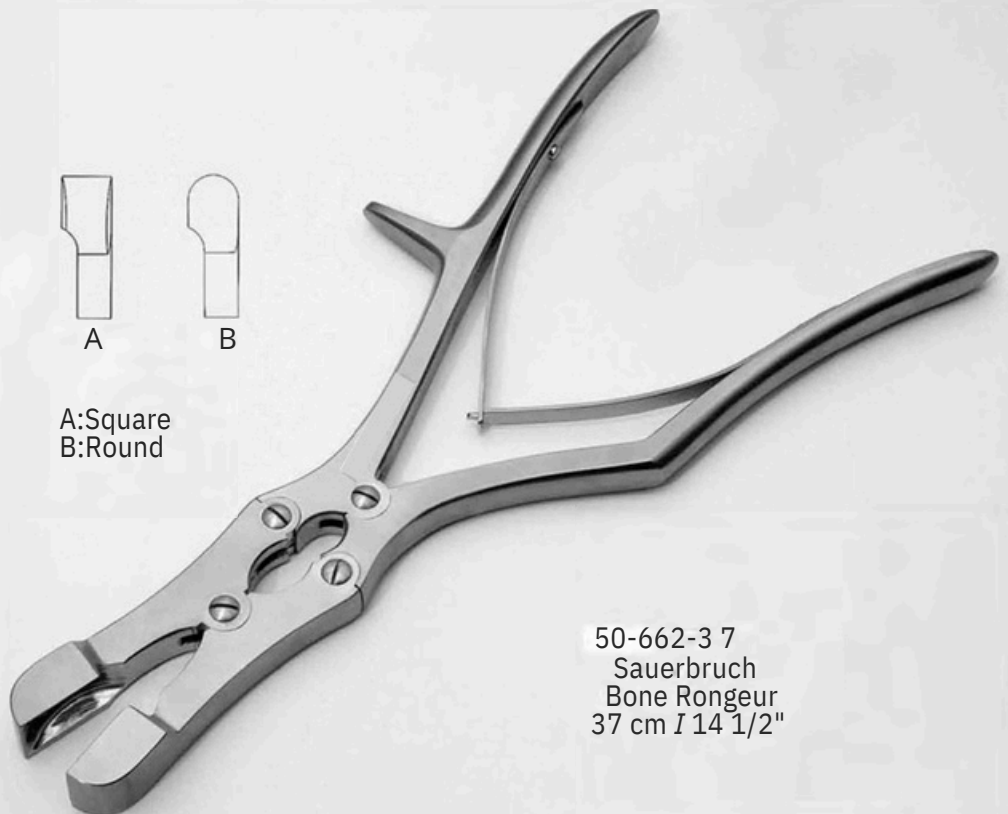
With Teeth



50-661-37
Dale Thoracic
Rongeur
37 cm I 14 1/2"



A:Square
B:Round



50-662-3 7
Sauerbruch
Bone Rongeur
37 cm I 14 1/2"



50-663-22
Rib Shear
Double Spring
22 cm I 8 3/4"



50-664-00
Rib Shear
Double Spring
A: 20 cm I 8"
B: 23 cm I 9"



501-665-17
Collin Rib Shear
17.5 cm I 7"



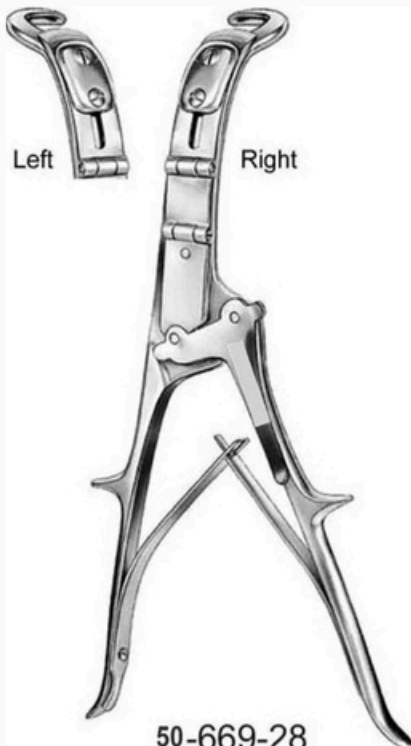
50-666-17
Collin Rib Shear
17 cm I 6 3/4"



50-667-21
Stille Rib Shear
21 cm I 8 1/4"



50-668-00
Gluck
Rib Shear
A: 16 cm I 6"
B: 18 cm I 7"
C: 20 cm I 8"
D: 23 cm I 9"



50-669-28
Brunner
Rib Shear
28 cm I 11"



50-670-25
Giertz Stille
Rib Shear
25 cm I 10"

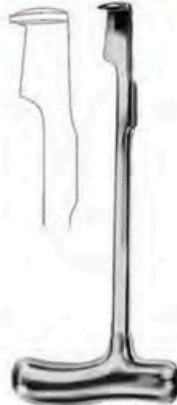


50-671-00
Sauerbruch
Rib Shear
A: 23 cm I 9"
A: 26 cm I 10 1/4"

50-672-25
Labsche
Rib Shear
25 cm I 10"



50-673-24
T Handle Labsche Sternum Chisel
24 cm I 9 1/2"



50-674-17
Rib Shear
Sideward
17 cm I 6 3/4"



Pointed
Tips

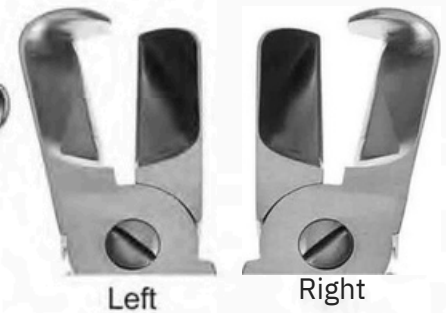


12-208-34A
Bethune Rib Shear
S Shaped Handle
34 cm I 13 1/2"

50-675-34
Bethune Rib Shear
S Shaped Handle
34 cm I 13 1/2"



50-676-35
Coryllos-Bethune Rib Shear
S Shaped Handle
35 cm I 13 3/2"



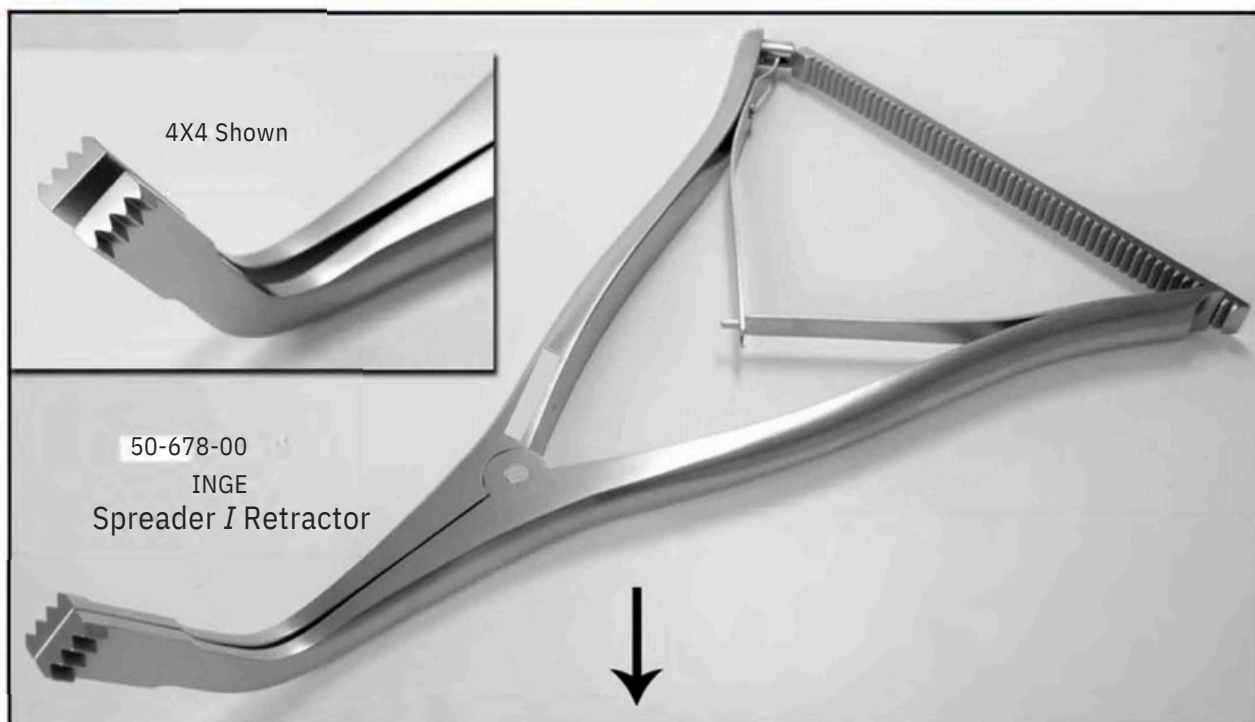
Left

Right



50-677-33
Roos Rib Shear
Right Angled Jaw W/ Hook
33 cm / 13"



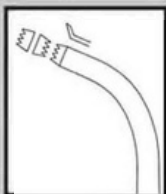


4X4 Shown

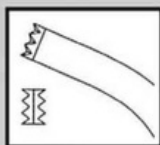
50-678-00
INGE
Spreader I Retractor



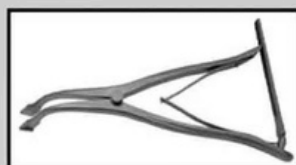
Available in 4 X4 and 6X6 Teeth
and Without Teeth (Plain)



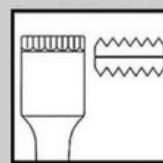
A: 4X4 Teeth
B: Without Teeth
16.5 cm 16 1/2"



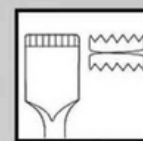
C: 4X4 Teeth
D: Without Teeth
25.5 cm/ 10"



10 Inch Length Pattern



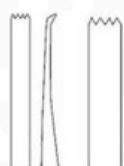
A: 6X6 Teeth
B: Without Teeth
27 cm/ 10 1/2"
Flat Blades



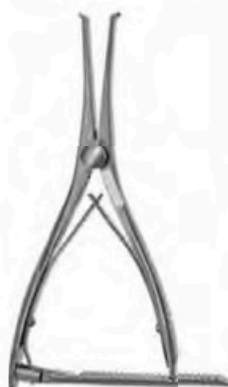
C: 6X6 Teeth
C: Without Teeth
27 cm/ 10 1/2"
Concave Blades



50-679-25
Offset Lamina
Spreader I Retractor
25.5 cm/ 10"

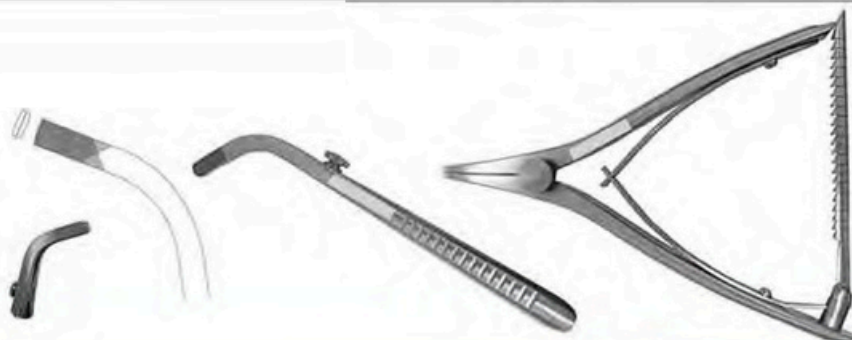


50-680-00
Vertebra
Spreader
I Retractor
A: 18 cm 17"
B: 28 cm/ 11"



50-681-00
Inge Spreader
Serrated Outside
Blades
A: 18 cm 17"

50-682-00
Saxsena Lamina
Spreader I Retractor
A: 18 cm 17"
B: 25.5 cm/ 10"
Serrated Outside
Blades





50-683-18
Calcaneal Spreader
Smooth Pads 15X12mm
18 cm I 7"



50-684-18
Calcaneal Spreader
Grooved Pads 15X12mm
18 cm I 7"



50-685-18
Lombardi Femoral
Tibial Spreader (Small)
A: Grooved Pads 22X13mm
18 cm I 7"



8: Damond Cut Pads 22X13mm



B: Damond Cut Pads 22X13mm



50-686-23
Lombardi Femoral
Tibial Spreader (Large)
A: Grooved Pads 22X13mm
23.5 cm I 9 1/4"



5 0-687- 28
Compressing Forceps
28 cm/ 11"
Adjustable Locking
For Screws and Rods



50-688-23
Distracting Forceps
23 cm 19"
Long Ratchet / Spiral Pring
For Screws and Rods



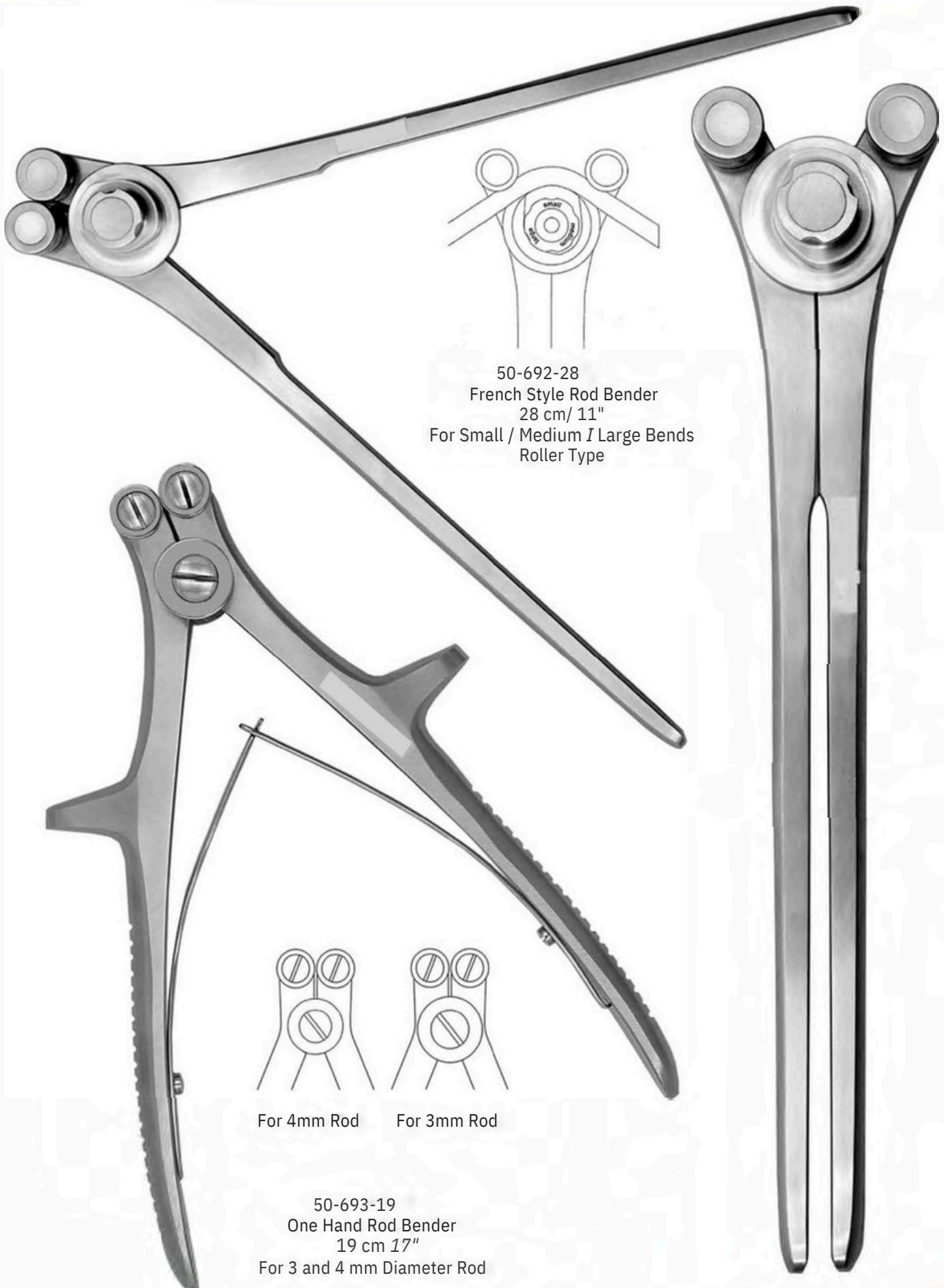
50-689-25
Distracting Forceps
25.5 cm/ 10"
Leaf Pring
For Screws and Rods

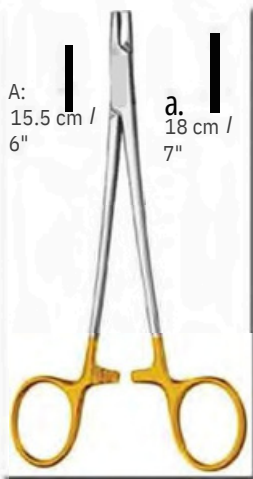


50 -690-28
Compression Forceps
28 cm/ 11"
Leaf Pring / Long Ratchet
For Screws and Rods



50-691-25
Distractor
25.5 cm/ 10"
Leaf Pring
For Screws and Rods





694-15-TC A I B
Wire Twisting
Forceps



695-15-TC A I B
Wire Twisting
Forceps



696-15-TC A I B
Wire Twisting
Forceps



697-18-TC Corwin
Cambi-Wire Twisting
Forceps
18.5cm / 7 1/4"



698-15-TC Wire
Twisting Forceps
15.5cm / 6"



699-16-TC
Wire Twisting Forceps
16 cm / 6 1/4"



700-19-TC Wire Twisting
Forceps Heavy Pattern
19 cm / 7 1/2"

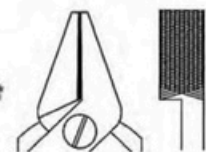
The Corwin-Hegar automatic Wire Twister is a special automatic twisting Instrument. In combination with a cerclage wire it can be used for fixation of fractures or temporal fixation. The Automatic Wire Twisters are available in different lengths and with various tungsten carbide inserts.



701-15-TC Corwin -Hegar
Auto Wire Twisting Forceps
15 cm / 6"



702-28-TC
Jet Wire Twisting Device
28 cm / 11" - 10mm Tip



CARBIDE INSERTED SURGICAL SCISSORS

Scissors in this Section can also be Manufactured without Carbide Tips / Gold Plating

703-00-TC

Mayo

Scissors TC Gold

A: 14.5 cm / 5 3/4" Str or Cvd
B: 17 cm / 6 3/4" Str or Cvd
C: 23 cm / 9" Str or Cvd

Blunt / Blunt



704-00-TC

Operating (Standard)

Scissors TC Gold

A: 13 cm / 5" Str or Cvd
B: 14 cm / 5 1/2" Str or Cvd
C: 15.5 cm / 6 1/2" Str or Cvd
D: 18 cm / 7" Str or Cvd

Sharp / Sharp
Cvd or Str

Blunt / Blunt
Cvd or Str

Sharp / Blunt
Cvd or Str

Please Mention Above Styles When Ordering Standard TC Scissors



Blunt / Blunt

705-00-TC

Mayo Stille

Scissors TC Gold

A: 14.5 cm / 5 3/4" Str or Cvd
B: 17 cm / 6 3/4" Str or Cvd
C: 23 cm / 9" Str or Cvd



Blunt / Blunt
706-00-TC

Metzenbaum

Scissors TC Gold

A: 14 cm / 5 1/2" Str or Cvd
B: 17 cm / 6 3/4" Str or Cvd
C: 20 cm / 8" Str or Cvd
D: 23 cm / 9" Str or Cvd



Blunt / Blunt



707-00-TC

Mayo-Harrington

Scissors TC Gold

A: 20 cm / 8" Str or Cvd
B: 23 cm / 9" Str or Cvd
C: 28 cm / 11" Str or Cvd
D: 30 cm / 12" Str or Cvd



708-12-TC
Ortho Universal Scissors TC Gold
12 cm / 4 1/3"

709-16-TC
Mayo-Nobel
Scissors TC Gold
A: 16.5 cm / 6 1/2"
Str or Cvd



710-00-TC

A: 15 cm I 6" Cut Upto 1.3mm

B: 18 cm I 7" Cut Upto 1.6mm

C: 23 cm I 9" Cut Upto 2.5mm

Ang 



711-00-TC

A: 15 cm I 6" Cut Upto 1.3mm

B: 18 cm I 7" Cut Upto 1.6mm



712-23-TC

23 cm I 9" Cut Upto 2.5mm



713-18-TC
18 cm I 7" Cut Upto 1.6mm

714-18-TC
Can nulated Pin Cutter TC Gold
18c m / 7" Cut Upto 1.5mm



715-15-TC
Front End
Wire Cutting Plier
TC Gold
15cm/6"
Cut Upto 1.3mm

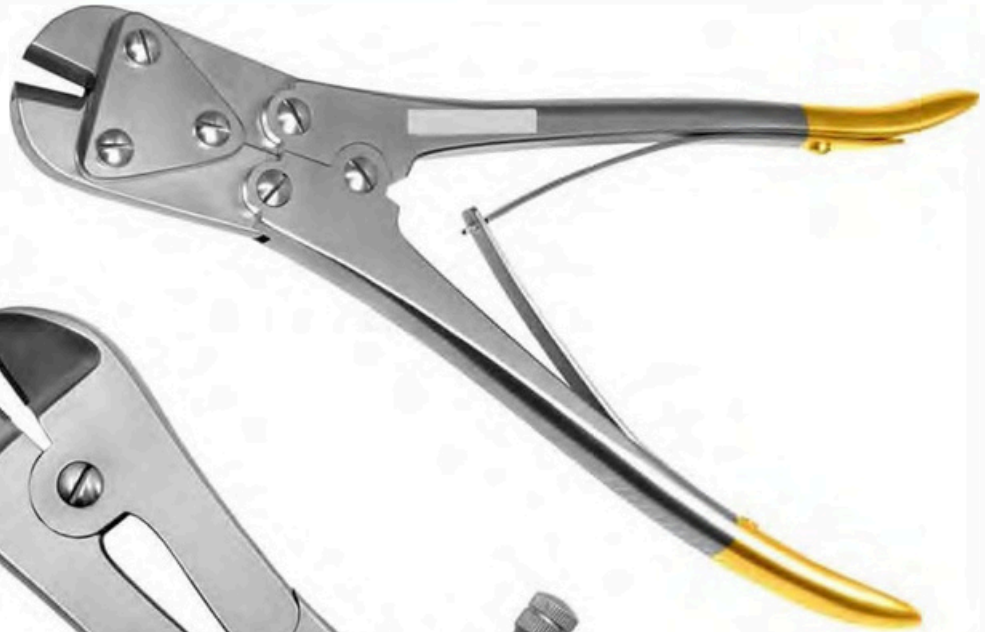


716-23-TC
Front End
Wire Cutting Plier
TC Gold
23c m/ 9"
Cut Upto 2.5mm

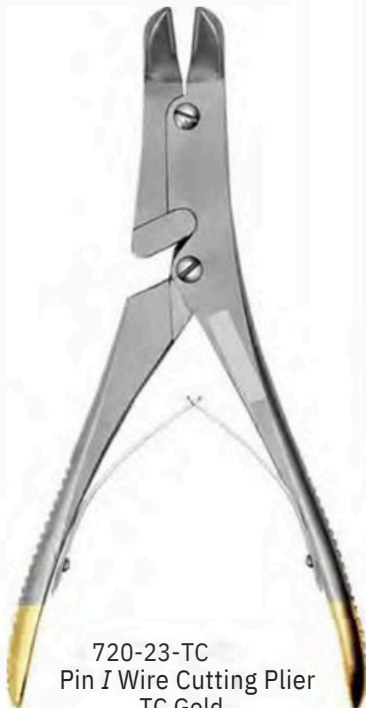
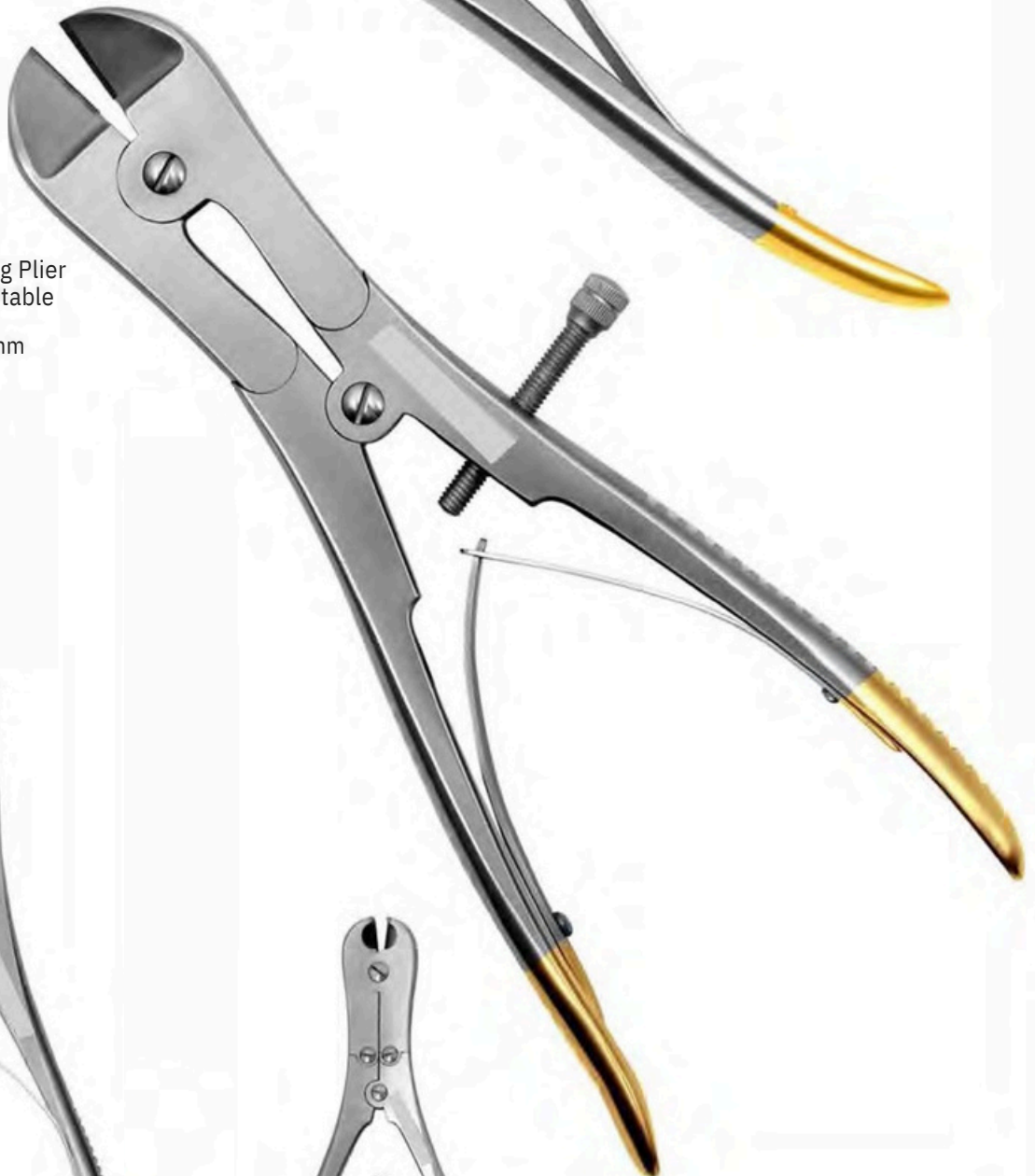


717-23-TC
Front End
Wire Cutting Plier
TC Gold
23 cm/ 9"
Cut Upto 2.5mm

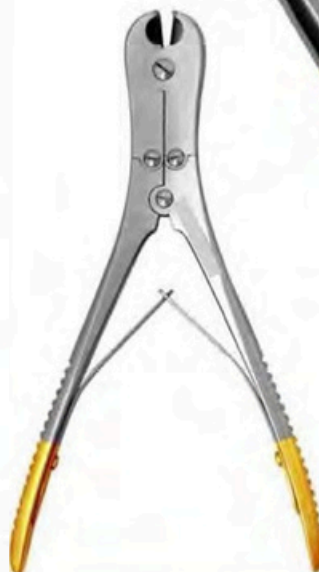
718-23-TC Plate /
Pin Cutting Plier
TC Gold
23 cm / 9"
Cut Upto 3.0mm



719-23-TC
Pin / Wire Cutting Plier
TC Gold / Adjustable
23 cm / 9"
Cut Upto 2.5mm



720-23-TC
Pin / Wire Cutting Plier
TC Gold
23 cm / 9"
Cut Upto 2.5mm



721-18-TC
Front / Side
Wire Cutting Plier
TC Gold
18 cm / 7"
Cut Upto 1.6mm



722-00-T
Heavy Duty
Pin Cutting Plier
TC Gold

A: 30 cm I 12" Cut Upto 3mm
B: 47 cm I 18 1/2" Cut Upto 5mm
C: 56 cm I 22" Cut Upto 6mm
D: 60 cm I 24" Cut Upto 7mm



723-00-TC
Heavy Duty
Pin End Cutting Plier
TC Gold

A: 27 cm I 10 1/2" Cut Upto 3mm
B: 38 cm I 15" Cut Upto 4mm



724-00-TC

Heavy Duty
Rods I Steinmann Pin Cutting Plier
TC Gold I Adjustable I Locking System
A: 30 cm I 12" Cut Upto 3mm
B: 38 cm I 15" Cut Upto 4mm
C: 47 cm I 18 1/2" Cut Upto 5mm
D: 56 cm I 22" Cut Upto 6mm

Drill Sitts for Quick Coupling

Drill bit 1.1mm dia

for threaded hole for 1.5mm screws Drill bit 1.5mm dia.
For threaded hole for 2.0mm screws and gliding hole for

1.5mm screws
Drill bit 2.0mm dia.
For threaded hole for 2.7 mm dia.
For gliding hole for 2.7 mm screws

Item	Diameter	Total length	Usable length
310.110'	1.1mm	860mm	835mm
310.150'	1.5mm	885mm	860mm
310.160'	1.5mm	110mm	085mm
310.190'	2.0mm	100mm	145mm
310.120'	2.0mm	125mm	100mm
310.210'	2.7mm	100mm	075mm
310.280'	2.7mm	125mm	100mm
310.260'	2.7mm	100mm	075mm
310.280'	2.0mm	125mm	100mm

Drill bit 2.5mm dia.

For threaded hole for 3.5 and 4.0mm screws

Drill bit 3.5mm

for gliding hole for 3.5mm screws

Item	Diameter	Total length	Usable length
310.250'	2.5mm	110mm	length
310.230'	2.5mm	180mm	085mm
310.350'	3.5mm	100mm	155mm
310.370'	3.5mm	195mm	085mm

Drill bit 3.2mm dia.

For threaded hole for 4.5 and 6.5mm screws

Drill bit 4mm dia.

For gliding hole for 4.5mm screws

Item	Diameter	Total length	Usable length
		100mm	145mm
310.290'	3.2mm	120mm	120mm
310.440'	4.5mm	195mm	170mm
310.480'	4.5mm	195mm	170mm

Drill Sitts for Jacobs Type Chuck

Drill Sit for Jacobs chuck

Item	Oram eter	Total length	Usable length
310.100	1.1mm	45mm	30mm
310.140	1.5mm	70mm	55mm
ZM- 310.200	2.0mm	85mm	70mm
310.240	2.5mm	095mm	080mm
310.270	2.7mm	85mm	70mm
310.320	3.2mm	130mm	115mm
ZM-110.300	3.5mm	095mm	080mm
ZM- 310.360	3.5mm	095mm	165mm
310.380	4.5mm	180mm	115mm
ZM-310.4	4.5mm	180mm	165mm
310.490	50	180mm	165mm



Tap for 2.0mm Cortex Screws

Predrilling: 1.5mm dia.

Item	Thread length	Total length
311.190'	24mm	053mm
ZM-311.210	38mm	100mm

Tap for 2.7mm Cortex Screws

Predrilling: 2.0mm dia.

Item	Thread length	Total length
311.260'	40mm	190mm
311.280		

311.280'

Tap for 2.7mm Cortex Screws

total length 125mm, thread length 40mm

predrilling: 2.0mm dia.

#111.150' ...

Tap for 1.5mm Cortex Screws
total length 50mm, thread length 20mm
predrilling: 1.1mm dia.

311.660'

Tap for 6.5mm cancellous Bone Screws
length 1gsmm, predrilling: 3.2mm dia.

Tap for 4.0mm cancellous Bone Screws

Item Total length Usable length
110mm 085mm

311.690'

Tap, cannulated, for 7.0mm cannulated Screws
length 230mm

310.880'
Countersink Shaft 1.5/2.0
length 52mm, for min iquick coupling

311.430'
Han-ile with quiek coupling
length 110mm

314.030'
Screwdriver Shaft, hexagonal, small
length 100mm, for quick coupling
For 2.7 to 4.0mm screws.

314.150'
Screwdriver Shaft, Hexagonal, large
length 100mm,
Final tightening of the screw has to
be done by hand.

332.050
Router, for Jacobs chuck
length 90mm

for countersinks and

instruments for the removal or damagec screws

314.320'
Screwdriver Shaft, hexagonal, with Holding Sleeve
fro 1.5 and 2.0mm stainless steel screws
with hexagonal socket,

314.670'
Screwdriver Shaft, cruciform, 1.5/2.0, with HOIding Sleeve
length 50mm, for 1.5 and 2.0mm

332.060'
Router, for quick coupling
length 90mm

311.440'
T-Handle with quick coupling
length 80mm, for taps

314.130
Screwdriver, hexagonal, with T-Handle,
large to loosen tight screws.
A normal screwdriver can be
additionally inserted in the hollow
shaft or the T-handle.

314.070'
Screwdriver, hexagonal, small with groove
length 200mm, for 2.7 to 4.0mm screws

310.990'
Countersink, large
length 180mm, for 4.5mm cortex screws

311.011
Handle, small, with mini quick coupling

314.170
Screwdriver with Universal Join large
length 290mm

314.270'
Screwdriver, hexagonal, large, with groove
length 240mm

310.890'
Countersink Sha 3.5mm
length 72mm, fo, quick coupling,
to countersink the screw head

311.012
Handle, medium, with mini quick coupling

310.790
Dountersink, cannulated, for 7.0mm cannulated Screws
length 230mm

311.013
Handle, large, with mini quick coupling

314.300
Screwdriver, hexagonal, with Holding Sleeve,
length 165mm for 1.5 and 2.0mm stainless
steel screws with hexagonal socket

314.020'
Screwdriver, hexagonal, small, with Holding Sleeve
length 200mm

310.950
Handle with mini quick coupling

314.140
Allen Key, hexagonal, angled
for 4.5 to 7.0mm screws

314.060
Holding Sleeve

314.060'
Holding Sleeve for no. 314.030
single, as spare

313.980
Id: n g Sl eeve for Mln o+ Sc rws
gl

392.040
Hand Chuck for Kirschner Wires
length 145mm, Spannbereich 0.6 to 1.6mm dia.

314.160
Allen Key, hexagonal, small, angled
length 65mm, for 2.7 to 4.0mm screws



312.300'
Insert Drill Sleeve 3.5/2.5
length 42mm, drill bit 2.5mm dia.



312.480'
Insert Drill Sleeve 4.5/3.2
length 80mm
for long lag screws



319.310'
Trocar 2.0mm dia.
Length 118mm, for percutaneous insertion or 7.0mm cannulated screws



319.320'
Drill Sleeve 4.5/2.0
length 109mm, for percutaneous insertion or 7.0mm cannulated screws



319.330'
Drill Sleeve 8.0/4.5
length 100mm, for percutaneous insertion of 7.0mm cannulated screws



ZM-322.260'
Handle for Drill Guides
single



ZM-397.300'
Drill Sleeve 3.0 with point
length 55mm



322.260
Handle for Drill Guides
for nos. 397.150 to 170. single



Item For diameter
397.150 1.5mm
397.160 2.0/2.7mm



397.170
Drill Sleeve 2.7



ZM-312.140'
Double Drill Sleeve 1.5/1.01
for 1.5mm cortex screws
drill bits, 1.5 and 1.1mm dia



312.220'
Double Drill Sleeve 2.0/1.5
for 2.0mm cortex screws



ZM-312.240'
Double Drill Sleeve 2.7/2.0
for 2.7mm cortex screws



312.280'
Double Drill Sleeve 3.5/2.5
for 3.5mm cortex screws and 4.0mm cancellous
bone screws
drill bits 3.5 and 2.5 dia.,



312.460'
Double Drill Sleeve 4.5/3.2
for 4.5mm cortex screws
drill bits: 4.5 and 3.2mm dia



312.670'
Double Drill Sleeve 6.5/3.2
for 6.5mm cancellous bone screws
drill bit: 3.2mm dia.



323.260
Universal Drill Sleeve 2.7
Drill bits 2.0 and 2.7mm dia.,
Suitable for LC-DCP and round hole plates.



323.360
Universal Drill Guide 3.5
Drill bit 2.5 and 3.5mm dia., And tissue protection
for taps nos.
311.310/320/340, Suitable for LC-DCP and
round hole plates.



323.460'
Universal Drill Guide 4.5/3.2
Drill bits 3.2 and 4.5mm dia.



322.150 DCP
Drill Guide 2.0
for neutral and load position
drill bit 1.5mm dia.



322.210 DCP
Drill Guide 2.7
for neutral and load position
drill bit 2.0mm dia.



322.320'
DCP Drill Guide 3.5
for neutral and load position, drill bit 2.5mm dia.



322.440'
DCP Drill Guide 4.5
for neutral and load position, drill bit 3.2mm dia.



323.350'
LC-DCP Drill Guide 3.5
for neutral and load position, drill bit 2.5mm dia.



323.450'
LC-DCP Drill Guide 4.5
for neutral and load position, drill bit 3.2mm dia.



322.430'
DCP Hip Drill Guide 4.5
for neutral and load position, for 4.5mm screws with DHS and
angled blade plates, sleeve length 60mm, drill bit 3.2mm dia.



312.200'
Triple Drill Sleeve 2.0
with 3 holes, opposite side 1 hole



322.240'
DCP Mandible Drill Guide 2.7 short
drill bit 2.0mm dia



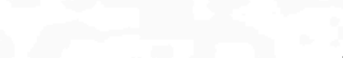
322.2501
DCP Mandible Drill Guide 2.7 long
drill bit 2.0mm dia



ZM-312.330
Insert Drill Sleeve with stop, for 4.5mm screws
adjustable length to limit drilling depth,
external dia. 4.5mm for drill bits of 3.2mm dia.



319.300'
Parallel drill Guide 4.5
for percutaneous insertion of 7.0mm cannulated screws



312.710'
Parallel Wire Guide 2.0mm dia.



319.010'
Depth Gauge for 2.7 to 4.0mm screws
measuring range up to 60mm



319.010'
Depth Gauge for 2.7 to 4.0mm screws
measuring range up to 60mm



319.100'
Depth Gauge for 4.5mm to 6.5mm screws
measuring range up to 110mm



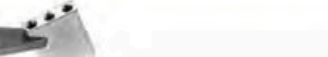
319.020
Bending Iron for plates 2.7 and 3.5
Length 150mm, slid widths 2.5 and 4.5mm, required pans



Item Slid placement
329.040' 4.5/2.5mm



Item Slid placement
329.050' 2.5/4.5mm



332.010'
Triple Drill Guide
130° angle, for 130° angled blade plates and
for condylar plates,
drill bit 4.5mm dia.



ZM-312.850
Drill Guide with stop 3.5/2.7
to limit drilling depth



ZM-319.340'
Protection Sleeve 11.0/8.0
for percutaneous insertion of 7.0mm cannulated screws



314.090'
Holding Sleeve
length 80mm, for 2.7 to 4.0mm screws



314.080
Holding Sleeve for
length 80mm for 2.7mm screws and
3.5mm cannulated screws



314.280'
Holding Sleeve, large, length 120mm
for Nos. 314.190/240/260/270/275



312.470
Drill Sleeve, pointed



329.020
Bending Iron LC-DCP/DCP
length 250mm, for small and broad LC-DCP, DCP
slit widths 5 and 7mm, Required in pairs



392.000'
Bending Iron for Kirschner Wires
length 120mm, for 1.25 to 2.5mm dia.



392.020
Bending Iron for Kirschner Wires
length 115mm, for 0.8 to 1.25mm dia.



329.080
Bending Iron for Reconstruction Plates 3.5 and 4.5
length 190mm, required in pairs



397.110
Handle with Sleeve
with rotating drill guide and anchoring point



397.120
Trocar Point, large, for number 397.110
for nos. 387.000/397.110



397.130
Cheek Retractor Ring, for number 397.110
for nos. 387.000/397.110



321.1601
Combination Wrench 11mm
length 140mm



321.170'
Pin Wrench
length 120mm, 4.5mm dia.
For tension device, distractor and knurled
nut of Insertion handle for Intramedullary nail



321.150'
Socket Wrench 11 mm
length 200mm



332.200'
Slotted Hammer
length 270mm



332.160'
Insertor/Extractor, with Adjustable ramps
length 270mm for the insertion and extraction of angled plates for
adults and hip plates for adolescents and children as well as tibial
plateau osteotomy plates.



332.350
Insertor/Extractor
length 175mm, for infant hip plate and mini hip plate.



329.290
Opening Pliers for Reconstruction Plates 2.7 and 3.5
length 240mm



329.1501
Bending Pliers for plate 2.4 to 4.0
length 230mm



329.240
Bending Pliers for plates



329.250
Anvil, narrow



329.260
Anvil, large



329.300
Bending Press
length 400mm



391.950'
Cutter for thin plates 1.5 to 2.7
length 256mm



329.270'
Bending Pliers
for reconstruction plates 2.7,
length 270mm, required in pairs



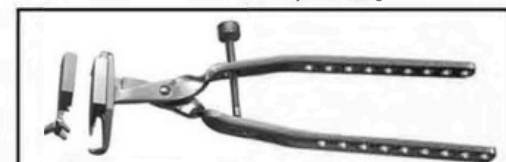
391.230
Cerclage Wire Tightener
length 260mm
for twisting, for temporary fixation during reduction



321.120'
Tension Device, articulated
Spa 20mm, can also be used as a distractor.
Colour scale: yellow up to 300N, green up to 400N,
red above 500N.



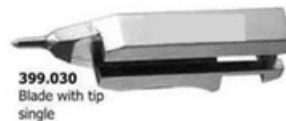
332.090'
Chisel Guide
with adjustable angle



399.010
Forceps with Sliding Blades
complete with two interchangeable blades
length 155mm, weight 42 g, speed lock



399.020
Blade with foot
single



399.030
Blade with tip
single



319.020
Measuring Device
for drill bits, screws, Kirschner wires, and Steinmann pins



319.440'
Holding Clip



391.100 2
Wire Passer
45mm bending diameter



391.130'
Wire Passer
70mm bending diameter



391.210'
Wire Tightener
length 240mm, with handle and two pegs



Cerclage Wire with eye				Cerclage Wires without eye			
Packs of 10 Wires	Diameter	Length	Item	In pre-cut lengths	Diameter	Length	Item
291.0800	0.80mm	280mm		291.220	0.40mm	150mm	
291.010'	1.00mm	280mm		291.240	0.60mm	175mm	
291.020'	1.25mm	280mm		291.260	0.80mm	200mm	
291.030	1.00mm	600mm	ZM- 291.240	291.270	1.00mm	250mm	
291.040	1.25mm	800mm	ZM- 291.260	291.280	1.25mm	300mm	
291.110	1.50mm	280mm	ZM- 291.270				
291.120	1.50mm	600mm	ZM- 291.280				

Kirschner Wire				Shanz Screws			
Implantable Material				Implantable Material			
Packs of 10 units	Diameter	Length	Titanium Alloy				
St. steel	0.60mm	070mm		2x 60 x 15 mm	5x150 x 30m m		
ZM- 292.060	0.80mm	070mm	ZM- 492.060	3x 60 x 15 mm	5 x l 60x 40m		
ZM- 292.080	0.80mm	150mm	ZM- 492.080	3 x 80 x 15 mm	m 5 x 180 x		
ZM- 292.090	0.80mm	150mm	ZM- 492.090	mm 3 x 80 x 20	40m m 5 x		
ZM- 292.100'	0.80mm	280mm	492.100	mm 3 x l 00 x	200x 40m m		
ZM- 292.110	1.00mm	150mm	ZM- 492.110	15 mm	5x220x 40m m		
ZM- 292.1201	1.00mm	150mm	ZM- 492.120	3x120x15mm 4	6 x l 20x 40m		
ZM- 292.130	1.00mm	280mm	ZM- 492.130	x 80 x 20 mm	m 6 x 140 x		
ZM- 292.140	1.25mm	m	492.140	4x 100 x 20	40m m 6 x 150		
ZM- 292.150	1.25mm	150mm	492.150	mm	x 40m m 6 x		
ZM- 292.1601	1.40mm	280mm	492.160	4 x l 20 x 20m	160 x 40m m 6		
ZM- 292.170	1.40mm	m	492.170	m 4 x l 40 x 20m	x 180 x 40m m 6		
ZM- 292.180	1.60mm	150mm	492.180	5 x l 20 x 30m	6 x 200 x 40m		
	1.80mm	150mm		m 5 x l 40 x	m 6 x 220x		
	1.60mm	280mm		30m m	40m m		



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