



Care with Trust...
ENDO TECH
GROUP OF INDUSTRIES



ORTHOPEDIC
SPINAL
INSTRUMENTS

KERRISON RONGEURS HIGHEST QUALITY STANDARDS

The handmade Kerrison Rongeurs are designed to produce the sharpest bite while at the same time having a smooth, gliding feel for the surgeon. we are so confident in our quality, we include a complete 2-year warranty on all of our Kerrison Rongeurs that covers all repairs and resharping of our instruments at no additional charge.



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SINCE 1990

BRIEF INTRODUCTION & START UP YEAR

"Endo Tech Instruments" is an established manufacturer in the arena making surgical instruments since 1990. This is our family business and we are 2nd generation to provide manufacturing services. We certainly have the potential to fulfill the requirement from our valued customer.

BUSINESS ARENA

"Endo Tech Instruments" is the growing Medical Instruments Manufacturing Company. We offer to all the customers just let us know your designs, drawing, pictures & ideas to manufacture instruments we have capability to convert your ideas into real instruments.

QUALITY ASSURANCE MANAGEMENT

We established a separate department called "Quality Assurance Management" who carefully watch all the processes concerning to quality.

- 1 Quality built surgical instruments according to customers' requirements at competitive price.
- 2 Total customer satisfaction from first contract to delivery with best and honest service in the appropriate machinery, best method and suitable processes.



SHARPNESS TEST FOR KERRISON RONGEURS ENDO TECH INSTRUMENTS



Be sure that the device is safe to handle and has been fully decontaminated. Open and close the device to evaluate proper action. Inspect for cracks and trapped bioburden.

Kerrison should make a clean, precise cut through a standard 3" x 5" index card without tearing (Spectrum Sharpness Test Standards Kit, Order # 2005STB). Rongeur should open and close smoothly and spring open easily.

KERRISON INSPECTION AND QUALITY ASSURANCE

Carefully inspect rongeur at distal tip, where damage most often occurs, significantly reducing the instrument's ability to cut.

Inspect channel and all interlocking parts for bioburden.

If rongeur sticks or action is not smooth, lubricate instrument or send out for repair.

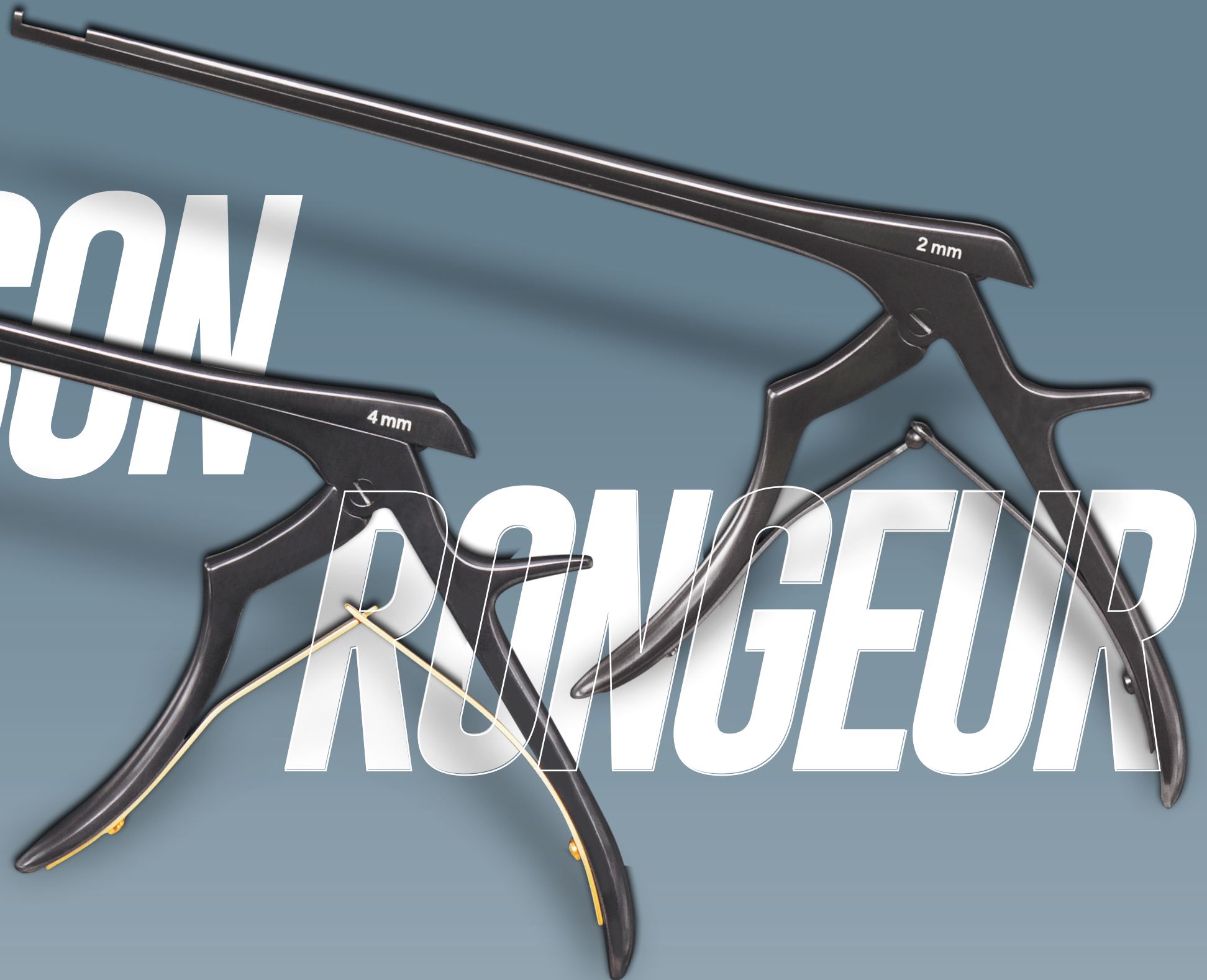
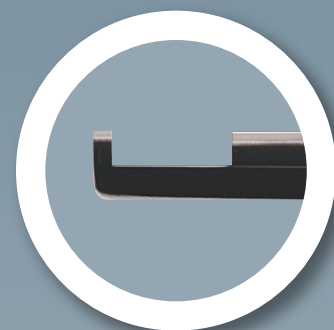
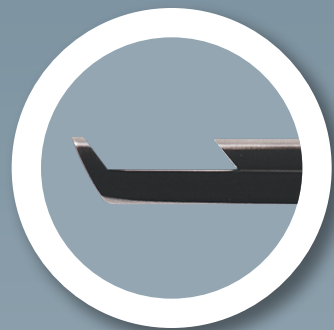
Carefully inspect springs and screws for cracks and debris.



WE PROVIDE BEST QUALITY PRODUCTS

KERRISON

The Single-use Kerrison's from Endo Tech Instruments have made my DCR procedure a lot easier as they are sharp and remove bone easily.

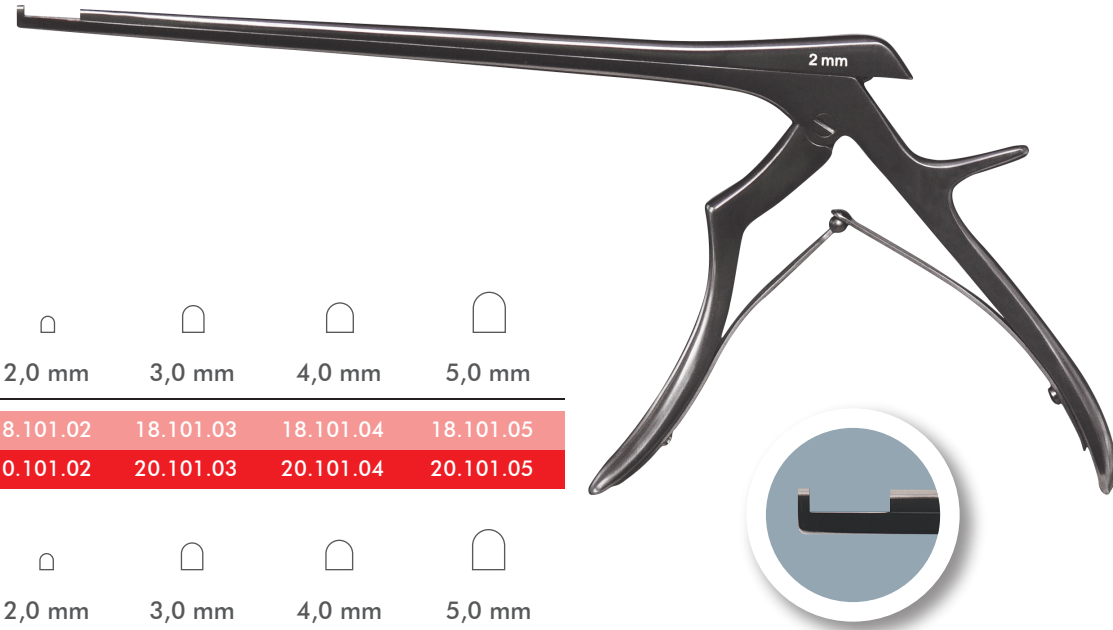


ROWNGEUR

BLACK SERIES

KERRISON PUNCHES CUTTING UPWARD 90°

*Thin foot plate
 *It has no reaction with water



THIN FOOT PLATE

		1,0 mm	2,0 mm	3,0 mm	4,0 mm	5,0 mm
18,0mm	90°	18.101.01	18.101.02	18.101.03	18.101.04	18.101.05
20,0mm	90°	20.101.01	20.101.02	20.101.03	20.101.04	20.101.05

REGULAR

		1,0 mm	2,0 mm	3,0 mm	4,0 mm	5,0 mm
18,0mm	90°	18.101.10	18.101.20	18.101.30	18.101.40	18.101.50
20,0mm	90°	20.101.10	20.101.20	20.101.30	20.101.40	20.101.50

KERRISON PUNCHES CUTTING UPWARD 1300

* Zirconium Coating Prevents
 * Light Reflections



THIN FOOT PLATE

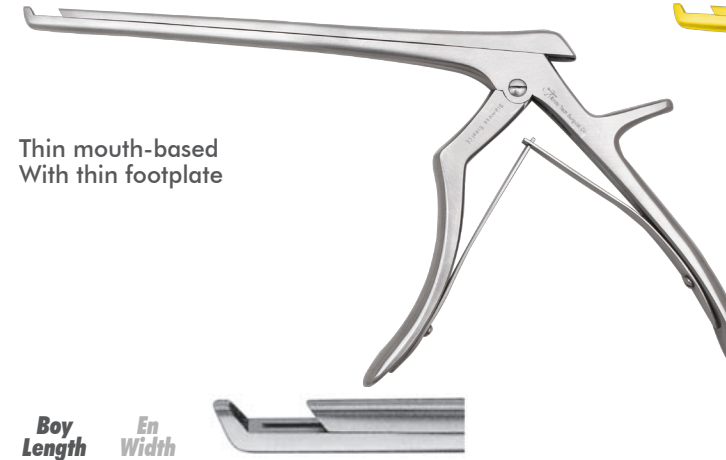
		1,0 mm	2,0 mm	3,0 mm	4,0 mm	5,0 mm
18,0mm	40°	18.202.01	18.202.02	18.202.03	18.202.04	18.202.05
20,0mm	40°	20.202.01	20.202.02	20.202.03	20.202.04	20.202.05

REGULAR

		1,0 mm	2,0 mm	3,0 mm	4,0 mm	5,0 mm
18,0mm	40°	18.202.10	18.202.20	18.202.30	18.202.40	18.202.50
20,0mm	40°	20.202.10	20.202.20	20.202.30	20.202.40	20.202.50

KERRISON BONE PUNCHES

130° UPWARDS KASME / UPWARDS CUTTING



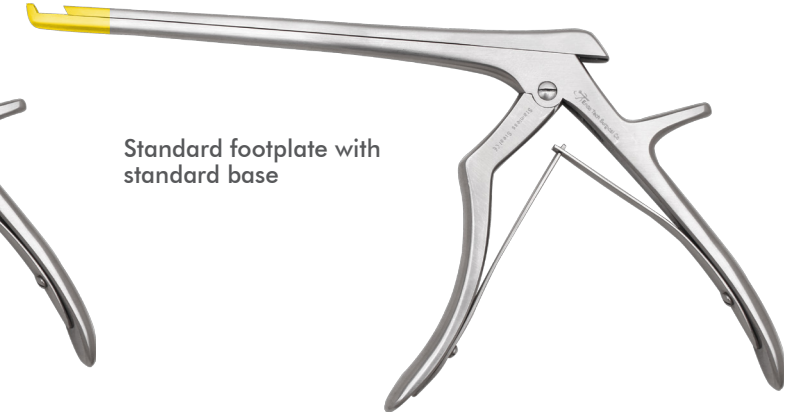
Thin mouth-based
 With thin footplate

Boy Length	En Width		
18cm	1mm	!	16.303.00
18cm	2mm	!	16.303.01
18cm	3mm	!	16.303.02
18cm	4mm	!	16.303.03
18cm	5mm	!	16.303.04
18cm	6mm	!	16.303.05

20cm	2mm	!	16.303.01
20cm	3mm	!	16.303.02
20cm	4mm	!	16.303.03
20cm	5mm	!	16.303.04
20cm	6mm	!	16.303.05

21.5cm	2mm	!	16.303.01
21.5cm	3mm	!	16.303.02
21.5cm	4mm	!	16.303.03
21.5cm	5mm	!	16.303.04

23cm	2mm	!	16.303.01
23cm	3mm	!	16.303.02
23cm	4mm	!	16.303.03
23cm	5mm	!	16.303.04



Standard footplate with
 standard base

Boy Length	En Width		
18cm	1mm	!	16.404.00
18cm	2mm	!	16.404.01
18cm	3mm	!	16.404.02
18cm	4mm	!	16.404.03
18cm	5mm	!	16.404.04

20cm	1mm	!	16.404.01
20 cm	2mm	!	16.404.02
20cm	3mm	!	16.404.03
20cm	4mm	!	16.404.04
20cm	5mm	!	16.404.05

23cm	2mm	!	16.404.02
23cm	3mm	!	16.404.03
23cm	4mm	!	16.404.04
23cm	5mm	!	16.404.05

KERRISON BONE PUNCHES



Boy Length	En Width		
18cm	1mm	⌋	16.505.01
18cm	2mm	⌋	16.505.02
18cm	3mm	⌋	16.505.03
18cm	4mm	⌋	16.505.04
18cm	5mm	⌋	16.505.05
18cm	6mm	⌋	16.505.06

23cm	2mm	⌋	16.505.02
23cm	3mm	⌋	16.505.03
23cm	4mm	⌋	16.505.04
23cm	5mm	⌋	16.505.05

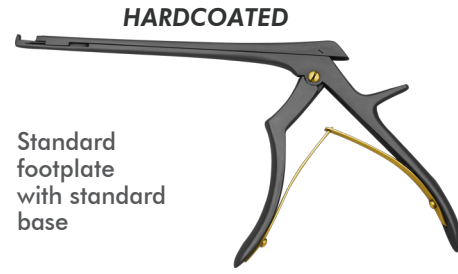
40° DOWNWARDS CUTTING

Ayrılabilir/ Detachable

Boy Length	En Width		
18cm	1mm	⌋	16.506D.01
18cm	2mm	⌋	16.506D.02
18cm	3mm	⌋	16.506D.03
18cm	4mm	⌋	16.506D.04
18cm	5mm	⌋	16.506D.05
18cm	6mm	⌋	16.506D.06

23cm	2mm	⌋	16.507D.02
23cm	3mm	⌋	16.507D.03
23cm	4mm	⌋	16.507D.04
23cm	5mm	⌋	16.507D.05

40° UPWARDS CUTTING



Boy Length	En Width		
18cm	1mm	⌋	16.606.01B
18cm	2mm	⌋	16.606.02B
18cm	3mm	⌋	16.606.03B
18cm	4mm	⌋	16.606.04B
18cm	5mm	⌋	16.606.05B
18cm	6mm	⌋	16.606.06B



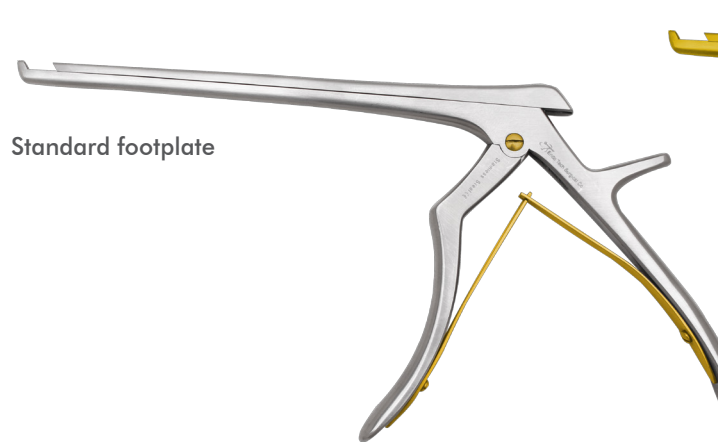
Boy Length	En Width		
18cm	1mm	⌋	16.707.00
18cm	2mm	⌋	16.707.01
18cm	3mm	⌋	16.707.02
18cm	4mm	⌋	16.707.03
18cm	5mm	⌋	16.707.04
18cm	6mm	⌋	16.707.05

DOWNWARDS CUTTING

Standart/Standard

Boy Length	En Width		
18cm	1mm	⌋	16.708D.01
18cm	2mm	⌋	16.708D.02
18cm	3mm	⌋	16.708D.03
18cm	4mm	⌋	16.708D.04
18cm	5mm	⌋	16.708D.05
18cm	6mm	⌋	16.708D.06

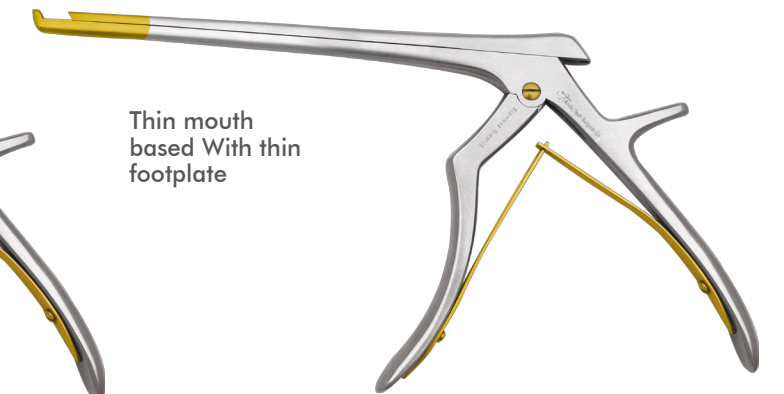
KERRISON BONE PUNCHES



Boy Length	En Width		
18cm	1mm	⌋	16.808.01
18cm	2mm	⌋	16.808.02
18cm	3mm	⌋	16.808.03
18cm	4mm	⌋	16.808.04
18cm	5mm	⌋	16.808.05
18cm	6mm	⌋	16.808.06

20cm	2mm	⌋	16.808.02
20cm	3mm	⌋	16.808.03
20cm	4mm	⌋	16.808.04
20cm	5mm	⌋	16.808.05
20cm	6mm	⌋	16.808.06

23cm	2mm	⌋	16.808.02
23cm	3mm	⌋	16.808.03
23cm	4mm	⌋	16.808.04
23cm	5mm	⌋	16.808.05



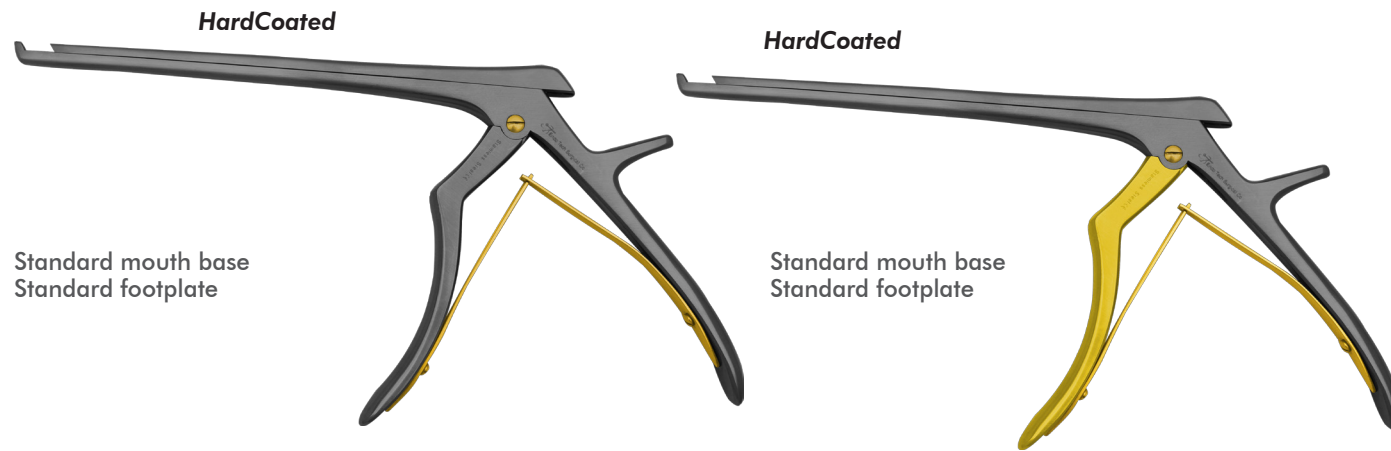
Boy Length	En Width		
18cm	1mm	⌋	16.909.01
18cm	2mm	⌋	16.909.02
18cm	3mm	⌋	16.909.03
18cm	4mm	⌋	16.909.04
18cm	5mm	⌋	16.909.05

20cm	1mm	⌋	16.909.01
20cm	2mm	⌋	16.909.02
20cm	3mm	⌋	16.909.03
20cm	4mm	⌋	16.909.04
20cm	5mm	⌋	16.909.05

23cm	2mm	⌋	16.909.02
23cm	3mm	⌋	16.909.03
23cm	4mm	⌋	16.909.04
23cm	5mm	⌋	16.909.05

KERRISON BONE PUNCHES

**130° CUTTING UPWARDS /
UPWARDS CUTTING**



Boy Length	En Width		
18cm	1mm	⌋	16.1010.01B
18cm	2mm	⌋	16.1010.02B
18cm	3mm	⌋	16.1010.03B
18cm	4mm	⌋	16.1010.04B
18cm	5mm	⌋	16.1010.05B
18 m	6mm	⌋	16.1010.06B

Boy Length	En Width		
18cm	1mm	⌋	16.1111.01B
18cm	2mm	⌋	16.1111.02B
18cm	3mm	⌋	16.1111.03B
18cm	4mm	⌋	16.1111.04B
18cm	5mm	⌋	16.1111.05B
18cm	6mm	⌋	16.1111.06B

20cm	2mm	⌋	16.1010.02B
20cm	3mm	⌋	16.1010.03B
20cm	4mm	⌋	16.1010.04B
20cm	5mm	⌋	16.1010.05B
20cm	6mm	⌋	16.1010.06B

20cm	2mm	⌋	16.1111.01B
20cm	3mm	⌋	16.1111.02B
20cm	4mm	⌋	16.1111.03B
20cm	5mm	⌋	16.1111.04B
20cm	6mm	⌋	16.1111.05B

23cm	2mm	⌋	16.1010.02B
23cm	3mm	⌋	16.1010.03B
23cm	4mm	⌋	16.1010.04B
23cm	5mm	⌋	16.1010.05B

23cm	2mm	⌋	16.1111.02B
23cm	3mm	⌋	16.1111.03B
23cm	4mm	⌋	16.1111.04B
23cm	5mm	⌋	16.1111.05B

LAMINECTOMY PUNCH

KERRISON LAMINECTOMY PUNCH

40° Downwards -Cutting

BITE SIZE /MM	18CM (7.0 IN)	20CM (8.0 IN)	23CM (9.0 IN)
1.0mm	1001-18-01	1001-18-01	1001-18-01
2.0mm	1001-18-02	1001-18-02	1001-18-02
3.0mm	1001-18-03	1001-18-03	1001-18-03
4.0mm	1001-18-04	1001-18-04	1001-18-04
5.0mm	1001-18-05	1001-18-05	1001-18-05
6.0mm	1001-18-06	1001-18-06	1001-18-06

90° Downwards -Cutting

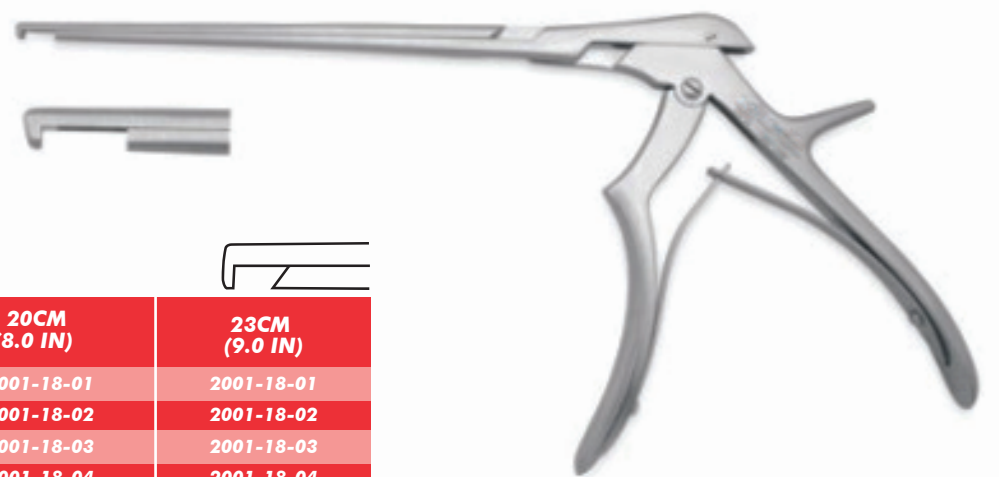
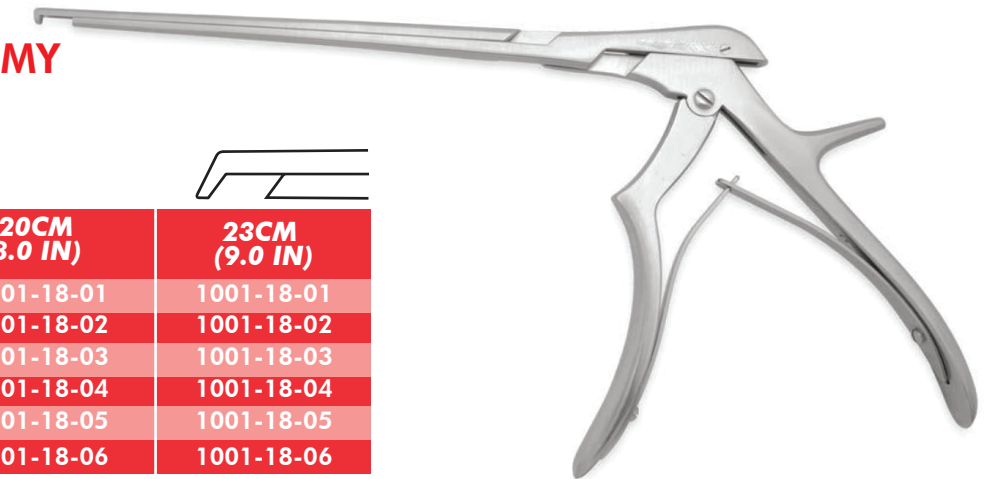
BITE SIZE /MM	18CM (7.0 IN)	20CM (8.0 IN)	23CM (9.0 IN)
1.0mm	1001-18-01	1001-18-01	1001-18-01
2.0mm	1001-18-02	1001-18-02	1001-18-02
3.0mm	1001-18-03	1001-18-03	1001-18-03
4.0mm	1001-18-04	1001-18-04	1001-18-04
5.0mm	1001-18-05	1001-18-05	1001-18-05
6.0mm	1001-18-06	1001-18-06	1001-18-06

KERRISON LAMINECTOMY PUNCH

Kerrison Laminectomy Punch
Jaw Angle 90 degree DOWNWARD
2 mm Bite Size

90° DOWNWARDS -CUTTING

BITE SIZE /MM	18CM (7.0 IN)	20CM (8.0 IN)	23CM (9.0 IN)
1.0mm	2001-18-01	2001-18-01	2001-18-01
2.0mm	2001-18-02	2001-18-02	2001-18-02
3.0mm	2001-18-03	2001-18-03	2001-18-03
4.0mm	2001-18-04	2001-18-04	2001-18-04
5.0mm	2001-18-05	2001-18-05	2001-18-05
6.0mm	2001-18-06	2001-18-06	2001-18-06

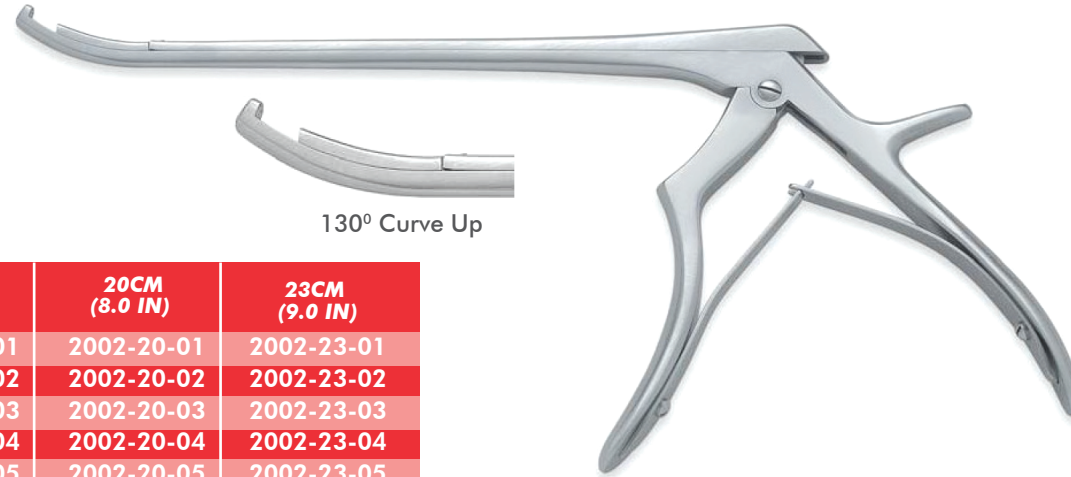


LAMINECTOMY PUNCH

FORAMENOTOMY PUNCH (CURVED)

Jaw Angle 40°
 Curved Shaft: 130°
 Bone Ejector

DESIGN TO IMPROVE ACCESS
 TO THE FORAMEN



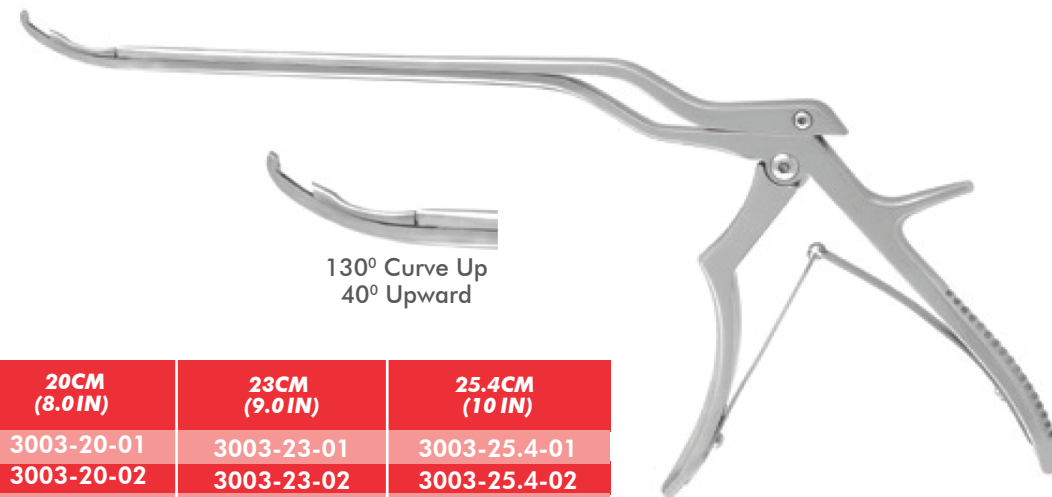
130° Curve Up

40° Up-Cutting

BITE SIZE /MM	18CM (7.0 IN)	20CM (8.0 IN)	23CM (9.0 IN)
1.0mm	2002-18-01	2002-20-01	2002-23-01
2.0mm	2002-18-02	2002-20-02	2002-23-02
3.0mm	2002-18-03	2002-20-03	2002-23-03
4.0mm	2002-18-04	2002-20-04	2002-23-04
5.0mm	2002-18-05	2002-20-05	2002-23-05
6.0mm	2002-18-06	2002-20-06	2002-23-06

KERRISON BAYONET FORAMENOTOMY RONGEUR (CURVED)

Jaw Angle 40°
 Curved Shaft: 130°
 Bone Ejector



130° Curve Up
 40° Upward

40° Up-Cutting

BITE SIZE /MM	18CM (7.0 IN)	20CM (8.0 IN)	23CM (9.0 IN)	25.4CM (10 IN)
1.0mm	3003-18-01	3003-20-01	3003-23-01	3003-25.4-01
2.0mm	3003-18-02	3003-20-02	3003-23-02	3003-25.4-02
3.0mm	3003-18-03	3003-20-03	3003-23-03	3003-25.4-03
4.0mm	3003-18-04	3003-20-04	3003-23-04	3003-25.4-04
5.0mm	3003-18-05	3003-20-05	3003-23-05	3003-25.4-05
6.0mm	3003-18-06	3003-20-06	3003-23-06	3003-25.4-06

LAMINECTOMY PUNCH

FERRIS-SMITH KERRISON RONGEUR- DETACHABLE SHAFT

Jaw Angle 40° UPWARD
 Shaft length: 20cm (8.0 in)
 Fixed Ejector
 Opening Jaw: 10mm



40° UPWARD

40° Upward / Down Ward

BITE SIZE /MM	40° UPWARD	40° DOWN WARD
2.0mm	4004-02-40.UP	4004-02-40.DW
3.0mm	4004-03-40.UP	4004-03-40.DW
4.0mm	4004-04-40.UP	4004-04-40.DW
5.0mm	4004-05-40.UP	4004-05-40.DW
6.0mm	4004-06-40.UP	4004-06-40.DW

FERRIS-SMITH KERRISON LAMINECTOMY PUNCH

Jaw Angle 40° up-Cutting
 Modified Ring
 Handle Thin Footplate



40° UPWARD

40° Upward / Shaft Length

BITE SIZE /MM	18CM (7.0 IN)	20CM (8.0 IN)
2.0mm	5005-18-02-40UP	5005-20-02-40UP
3.0mm	5005-18-03-40UP	5005-20-03-40UP
4.0mm	5005-18-04-40UP	5005-20-04-40UP
5.0mm	5005-18-05-40UP	5005-20-05-40UP
6.0mm	5005-18-06-40UP	5005-20-06-40UP

LAMINECTOMY PUNCH

BAYONET MICRO KERRISON RONGEUR

Jaw Angle 40°
 Curved Shaft: 130°
 Bone Ejector



WITHOUT EJECTOR

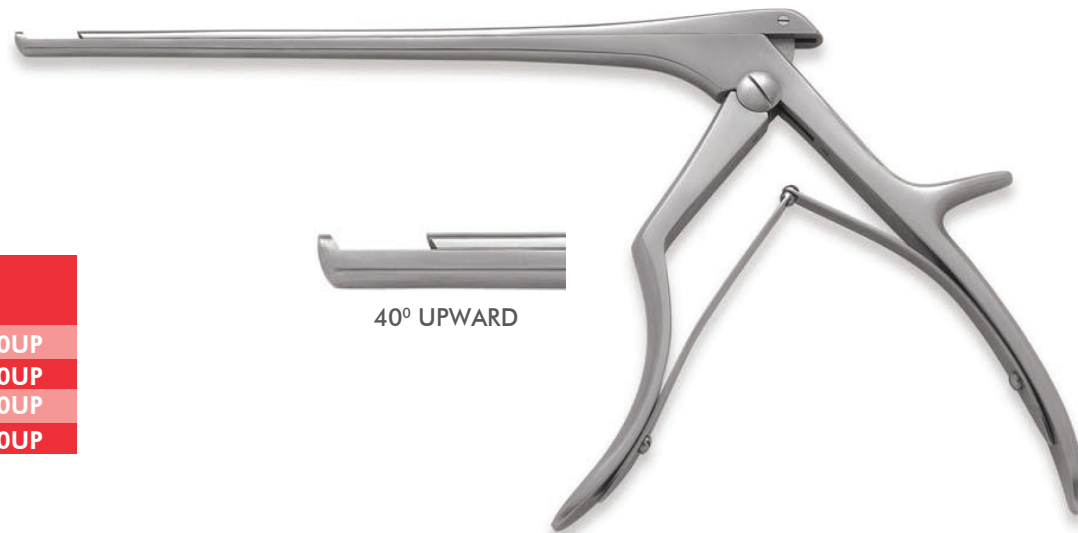
BITE SIZE /MM	12CM (4 3/4IN)	15CM (6.0IN)	18CM (7IN)
1.0mm	6006-01-12	6006-01-15	6006-18-01
2.0mm	6006-02-12	6006-02-15	6006-18-02
3.0mm	6006-03-12	6006-03-15	6006-18-03
4.0mm	6006-04-12	6006-04-15	6006-18-04
5.0mm	6006-05-12	6006-05-15	6006-18-05

WITH EJECTOR

BITE SIZE /MM	12CM (4 3/4IN)	15CM (6.0IN)	18CM (7IN)
1.0mm	6007-01-12	6007-01-15	6007-01-18
2.0mm	6007-02-12	6007-02-15	6007-02-18
3.0mm	6007-03-12	6007-03-15	6007-03-18
4.0mm	6007-04-12	6007-04-15	6007-04-18
5.0mm	6007-05-12	6007-05-15	6007-05-18

LOVE KERRISON RONGEUR

Jaw Angle 40° UP-CUTTING
 Oversize Handle



40° Upward / Shaft Length

BITE SIZE /MM	18CM (7.0IN)
2.0mm	7007-02-18-40UP
3.0mm	7007-03-18-40UP
4.0mm	7007-04-18-40UP
5.0mm	7007-05-18-40UP

LAMINECTOMY PUNCH

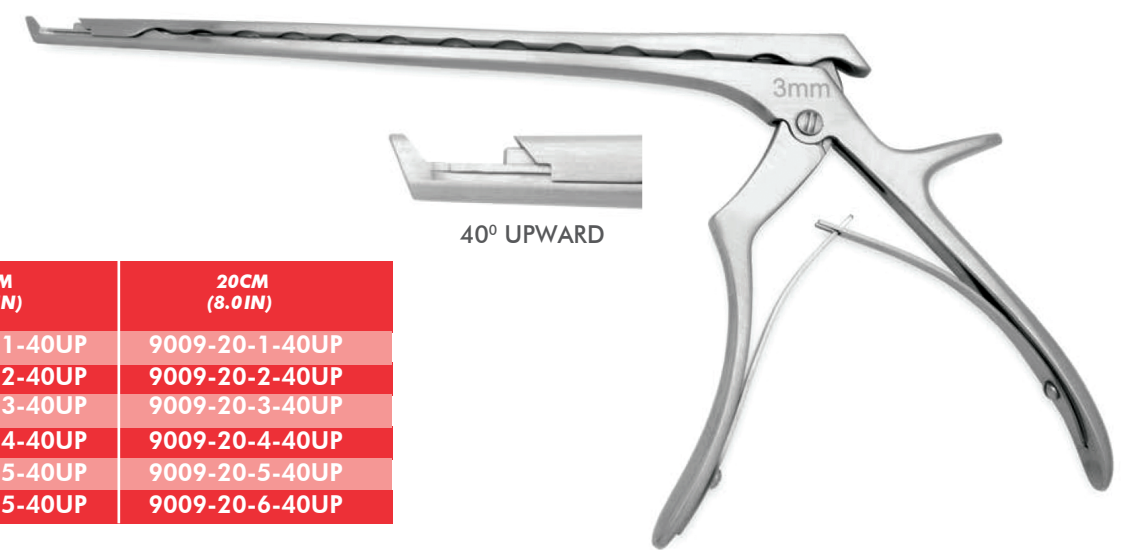
KERRISON RONGEURS / PUNCH

Jaw Angle 40° UP-CUTTING
 Length: 7", 8"inch
 Semi Detachable
 Also Available in injector pin



CLEAN WAVE' LAMINECTOMY PUNCH

Jaw Angle 40° UP-CUTTING
 Bone Ejector
 Opening Jaw: 10mm



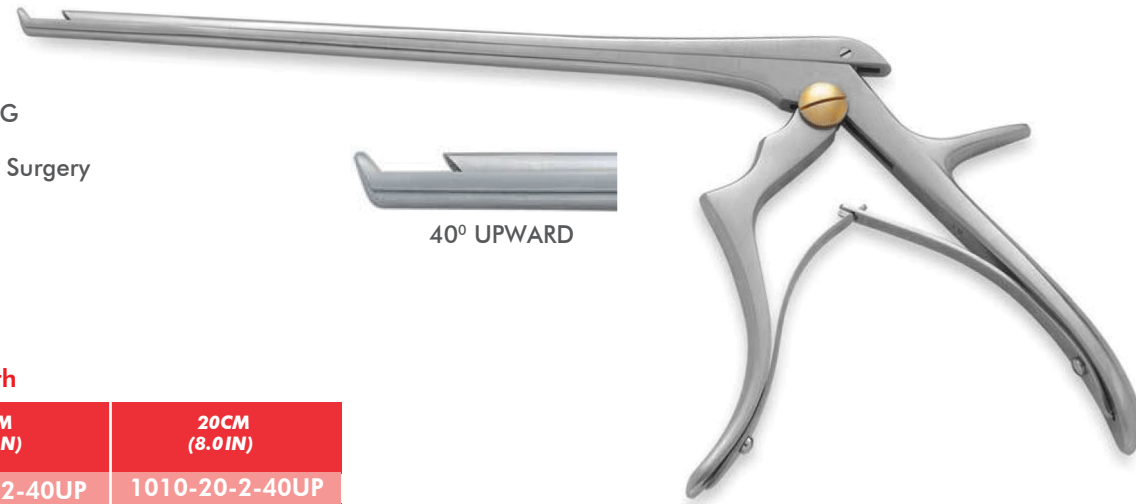
40° Upward / Shaft Length

BITE SIZE /MM	18CM (7.0IN)	20CM (8.0IN)
1.0mm	9009-18-1-40UP	9009-20-1-40UP
2.0mm	9009-18-2-40UP	9009-20-2-40UP
3.0mm	9009-18-3-40UP	9009-20-3-40UP
4.0mm	9009-18-4-40UP	9009-20-4-40UP
5.0mm	9009-18-5-40UP	9009-20-5-40UP
6.0mm	9009-18-5-40UP	9009-20-6-40UP

LAMINECTOMY PUNCH

THIN FOOTPLATE KERRISON LAMINECTOMY PUNCH

Jaw Angle 40° UP-CUTTING
 Bone Ejector
 Thin Footplate for Cervical Surgery



40° UPWARD

40° Upward / Shaft Length

BITE SIZE /MM	18CM (7.0IN)	20CM (8.0IN)
2.0mm	1010-18-2-40UP	1010-20-2-40UP
3.0mm	1010-18-3-40UP	1010-20-3-40UP
4.0mm	1010-18-4-40UP	1010-20-4-40UP
5.0mm	1010-18-5-40UP	1010-20-5-40UP
6.0mm	1010-18-6-40UP	1010-20-6-40UP

KERRISON LAMINECTOMY PUNCH

Jaw Angle 40° UP-CUTTING
 Bone Ejector
 Opening Jaw: 9mm



40° UPWARD

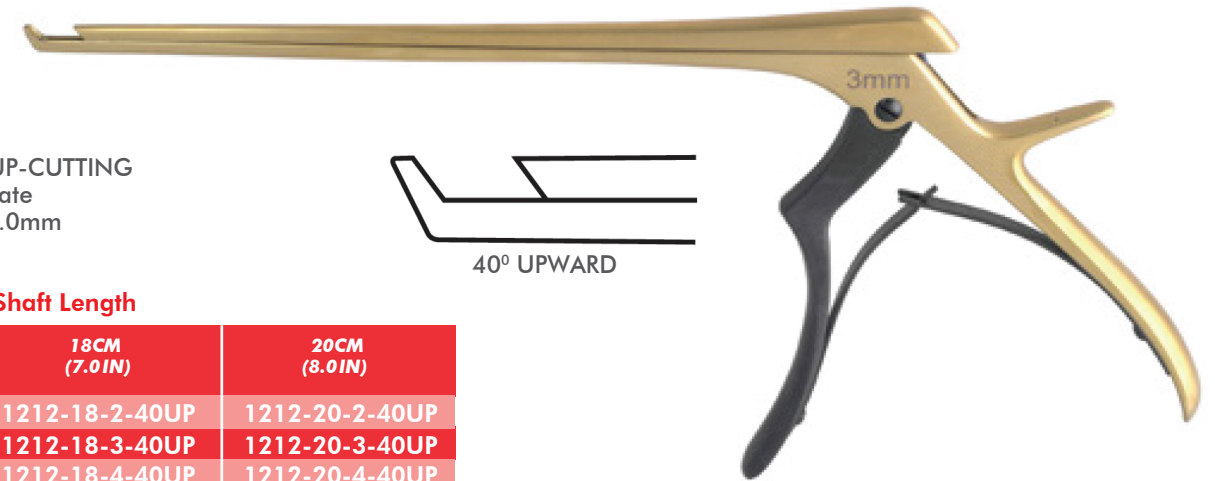
40° Upward / Shaft Length

BITE SIZE /MM	18CM (7.0IN)	20CM (8.0IN)	23CM (9.0IN)
1.0mm	1111-18-1-40UP	1111-20-1-40UP	1111-23-1-40UP
2.0mm	1111-18-2-40UP	1111-20-2-40UP	1111-23-2-40UP
3.0mm	1111-18-3-40UP	1111-20-3-40UP	1111-23-3-40UP
4.0mm	1111-18-4-40UP	1111-20-4-40UP	1111-23-4-40UP
5.0mm	1111-18-5-40UP	1111-20-5-40UP	1111-23-5-40UP
6.0mm	1111-18-6-40UP	1111-20-6-40UP	1111-23-6-40UP

LAMINECTOMY PUNCH

THIN FOOTPLATE KERRISON RONGEUR

Jaw Angle 40° UP-CUTTING
 Standard Footplate
 Jaw Opening: 9.0mm



40° UPWARD

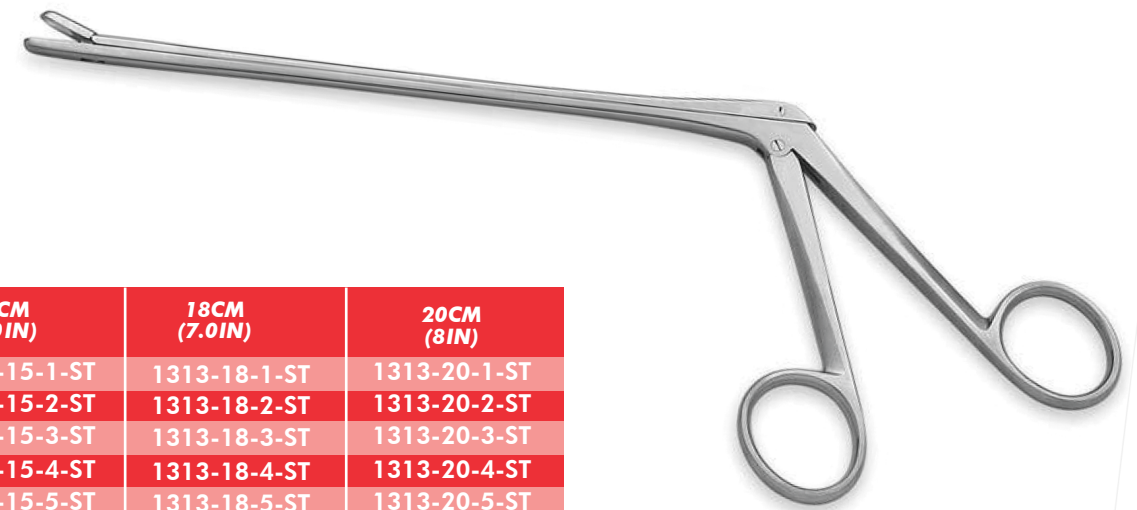
40° Upward / Shaft Length

BITE SIZE /MM	18CM (7.0IN)	20CM (8.0IN)
2.0mm	1212-18-2-40UP	1212-20-2-40UP
3.0mm	1212-18-3-40UP	1212-20-3-40UP
4.0mm	1212-18-4-40UP	1212-20-4-40UP
5.0mm	1212-18-5-40UP	1212-20-5-40UP
6.0mm	1212-18-6-40UP	1212-20-6-40UP

DISC RONGEURS / SPINAL MD RONGEURS

INTERVERTEBRAL DISC RONGEUR

Jaw Angle: Straight

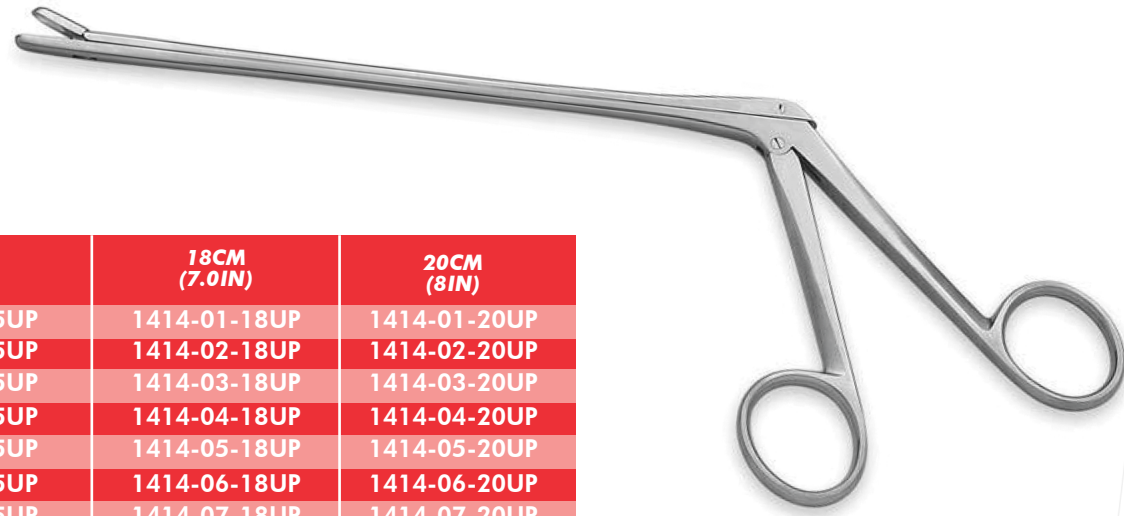


BITE SIZE /MM	15CM (6.0IN)	18CM (7.0IN)	20CM (8IN)
1.0mm	1313-15-1-ST	1313-18-1-ST	1313-20-1-ST
2.0mm	1313-15-2-ST	1313-18-2-ST	1313-20-2-ST
3.0mm	1313-15-3-ST	1313-18-3-ST	1313-20-3-ST
4.0mm	1313-15-4-ST	1313-18-4-ST	1313-20-4-ST
5.0mm	1313-15-5-ST	1313-18-5-ST	1313-20-5-ST
6.0mm	1313-15-6-ST	1313-18-6-ST	1313-20-6-ST
7.0mm	1313-15-7-ST	1313-18-7-ST	1313-20-7-ST

DISC RONGEURS / SPINAL VMD RONGEURS

INTERVERTEBRAL DISC RONGEUR

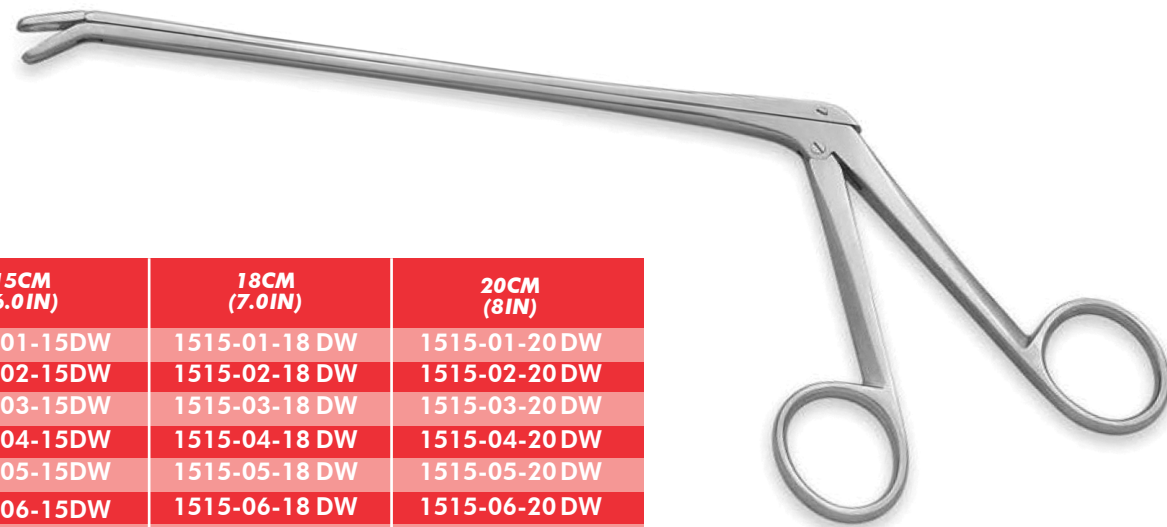
Jaw Angle: 40° UPWARD



BITE SIZE /MM	15CM (6.0IN)	18CM (7.0IN)	20CM (8IN)
1.0mm	1414-01-15UP	1414-01-18UP	1414-01-20UP
2.0mm	1414-02-15UP	1414-02-18UP	1414-02-20UP
3.0mm	1414-03-15UP	1414-03-18UP	1414-03-20UP
4.0mm	1414-04-15UP	1414-04-18UP	1414-04-20UP
5.0mm	1414-05-15UP	1414-05-18UP	1414-05-20UP
6.0mm	1414-06-15UP	1414-06-18UP	1414-06-20UP
7.0mm	1414-07-15UP	1414-07-18UP	1414-07-20UP

INTERVERTEBRAL DISC RONGEUR

Jaw Angle: 40° DOWNWARD



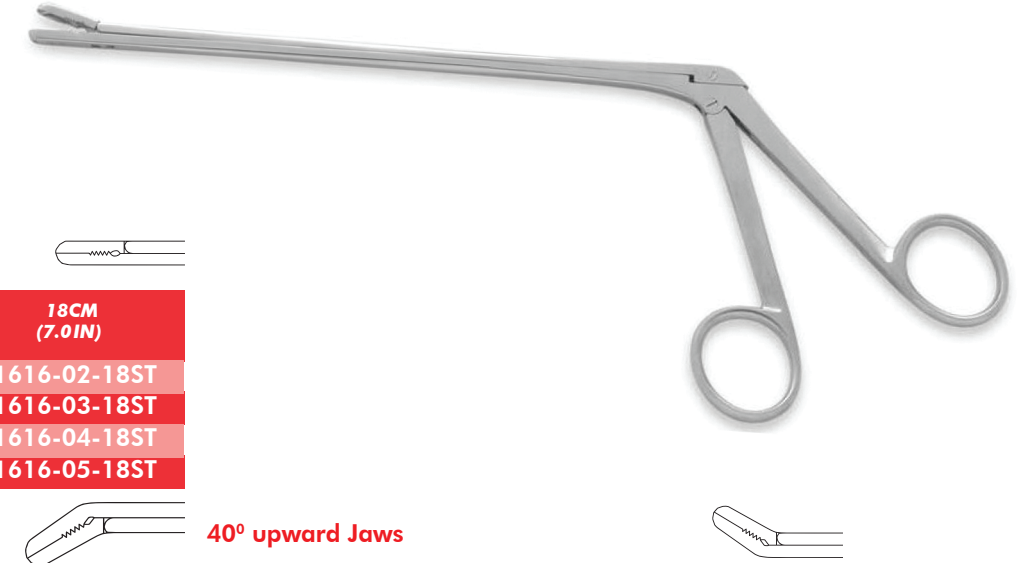
40° Downward Jaws

BITE SIZE /MM	15CM (6.0IN)	18CM (7.0IN)	20CM (8IN)
1.0mm	1515-01-15DW	1515-01-18 DW	1515-01-20DW
2.0mm	1515-02-15DW	1515-02-18 DW	1515-02-20DW
3.0mm	1515-03-15DW	1515-03-18 DW	1515-03-20DW
4.0mm	1515-04-15DW	1515-04-18 DW	1515-04-20DW
5.0mm	1515-05-15DW	1515-05-18 DW	1515-05-20DW
6.0mm	1515-06-15DW	1515-06-18 DW	1515-06-20DW
7.0mm	1515-07-15DW	1515-07-18 DW	1515-07-20DW

LAMINECTOMY PUNCH

CASPAR TOOTHED DISC RONGEUR

Serrated and Fenestrated Jaws



Straight Jaws

BITE SIZE /MM	16CM (6 1/4 IN)	18CM (7.0IN)
2.0mm	1616-02-16 ST	1616-02-18ST
3.0mm	1616-03-16 ST	1616-03-18ST
4.0mm	1616-04-16 ST	1616-04-18ST
5.0mm	1616-05-16 ST	1616-05-18ST

40° Downward Jaws

BITE SIZE /MM	16CM (6 1/4 IN)	18CM (7.0IN)
2.0mm	1616-02-16DW	1616-02-18DW
3.0mm	1616-03-16DW	1616-03-18DW
4.0mm	1616-04-16DW	1616-04-18DW
5.0mm	1616-05-16DW	1616-05-18DW

40° upward Jaws

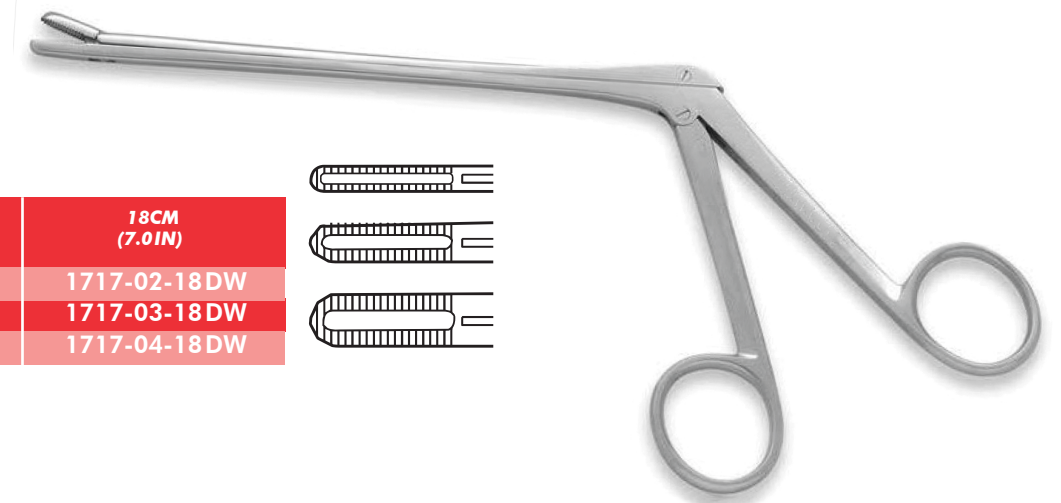
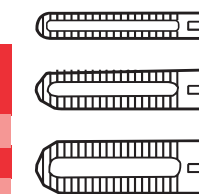
BITE SIZE /MM	16CM (6 1/4 IN)	18CM (7.0IN)
2.0mm	1616-02-16UP	1616-02-18UP
3.0mm	1616-03-16UP	1616-03-18UP
4.0mm	1616-04-16UP	1616-04-18UP
5.0mm	1616-05-16UP	1616-05-18UP

SCHLESINGER TOOTHED RONGEUR

Jaw Angle: Straight

40° Downward Jaws

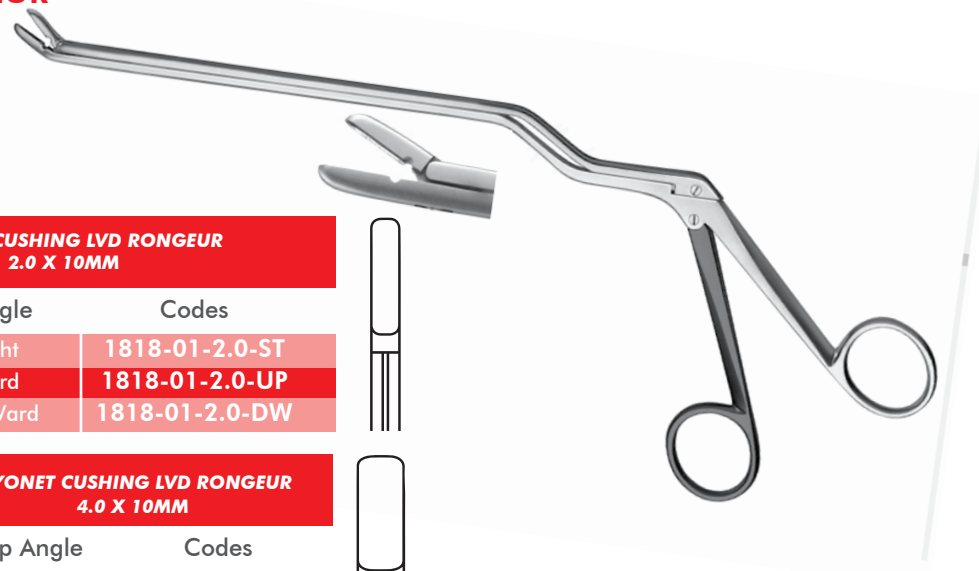
BITE SIZE /MM	15CM (6.0IN)	18CM (7.0IN)
2.0mm	1717-02-15DW	1717-02-18DW
3.0mm	1616-03-18DW	1717-03-18DW
4.0mm	1616-04-18DW	1717-04-18DW



DISC RONGEURS / SPINAL MD RONGEURS

BAYONET CUSHING LVD RONGEUR

Working Length: 12 cm (4 3/4 in)



BAYONET CUSHING LVD RONGEUR 1.5 X 10MM **BAYONET CUSHING LVD RONGEUR 2.0 X 10MM**

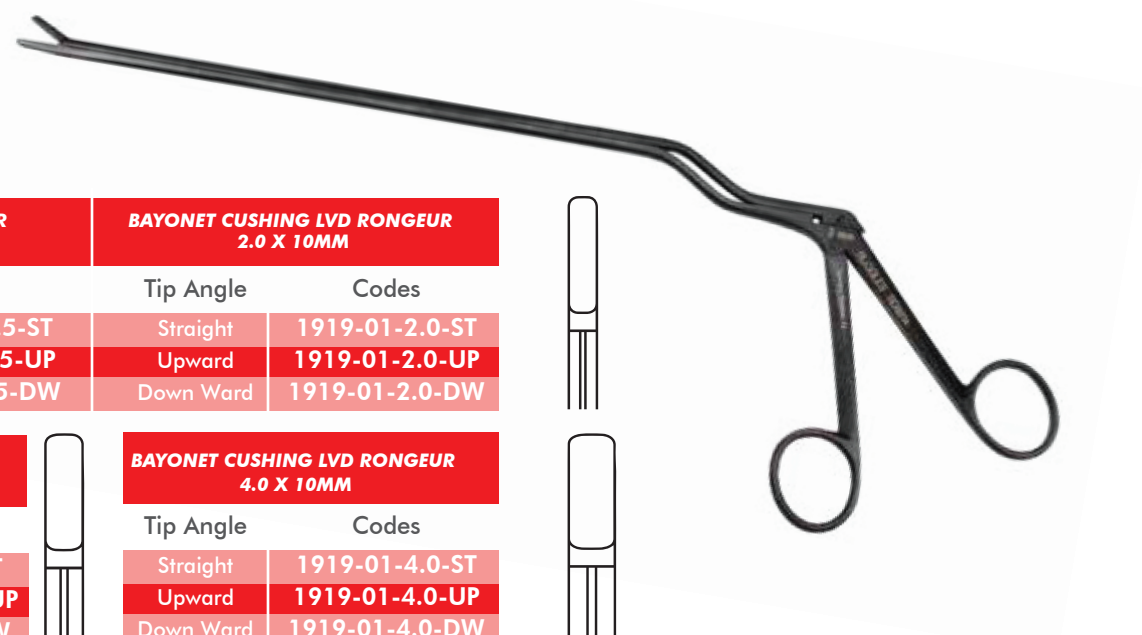
Tip Angle	Codes	Tip Angle	Codes
Straight	1818-01-1.5-ST	Straight	1818-01-2.0-ST
Upward	1818-01-1.5-UP	Upward	1818-01-2.0-UP
Down Ward	1818-01-1.5-DW	Down Ward	1818-01-2.0-DW

BAYONET CUSHING LVD RONGEUR 3.0 X 10MM **BAYONET CUSHING LVD RONGEUR 4.0 X 10MM**

Tip Angle	Codes	Tip Angle	Codes
Straight	1818-01-3.0-ST	Straight	1818-01-4.0-ST
Upward	1818-01-3.0-UP	Upward	1818-01-4.0-UP
Down Ward	1818-01-3.0-DW	Down Ward	1818-01-4.0-DW

DIAMOND BAYONET INTERVERTEBRAL DISC RONGEUR

Working Length: 20.3cm (8.0in)



BAYONET CUSHING LVD RONGEUR 1.5 X 10MM **BAYONET CUSHING LVD RONGEUR 2.0 X 10MM**

Tip Angle	Codes	Tip Angle	Codes
Straight	1919-01-1.5-ST	Straight	1919-01-2.0-ST
Upward	1919-01-1.5-UP	Upward	1919-01-2.0-UP
Down Ward	1919-01-1.5-DW	Down Ward	1919-01-2.0-DW

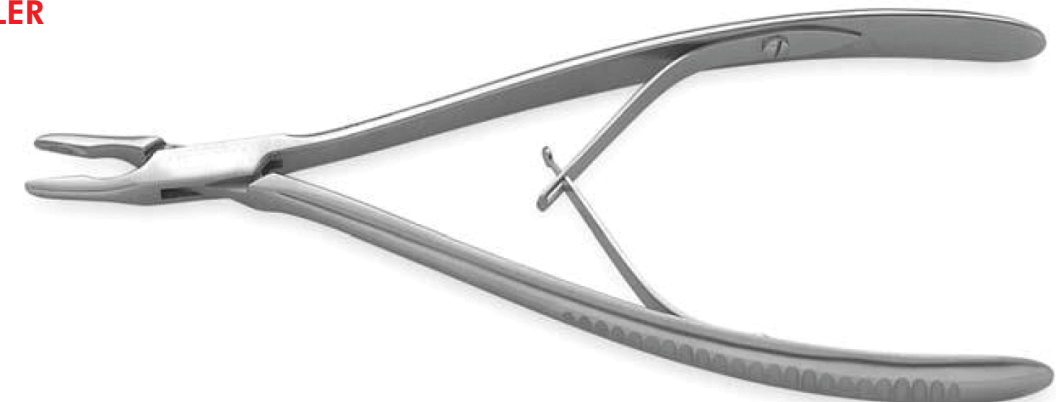
BAYONET CUSHING LVD RONGEUR 3.0 X 10MM **BAYONET CUSHING LVD RONGEUR 4.0 X 10MM**

Tip Angle	Codes	Tip Angle	Codes
Straight	1919-01-3.0-ST	Straight	1919-01-4.0-ST
Upward	1919-01-3.0-STUP	Upward	1919-01-4.0-UP
Down Ward	1919-01-3.0-DW	Down Ward	1919-01-4.0-DW

BONE NIBBLERS & CUTTERS

LEMPERT BONE NIBBLER

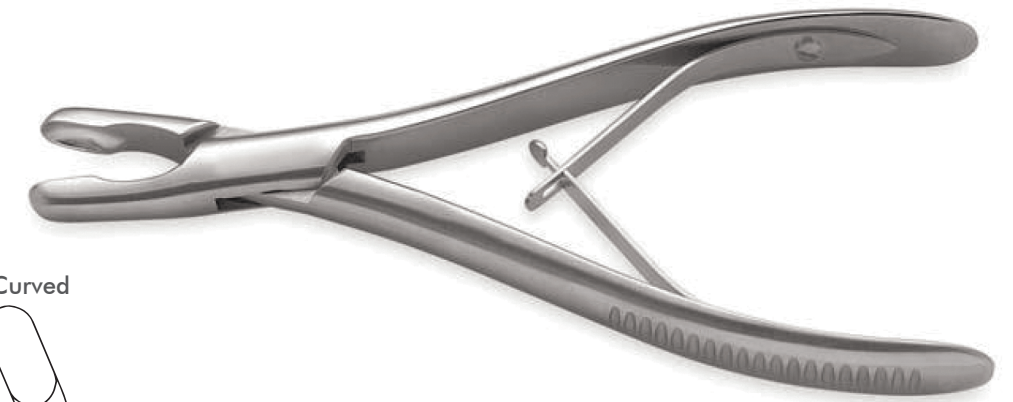
Length: 19cm (7 1/2 in)
Bite: 3.0mm To 8.0mm
Single Action



ET-2020-19CM-SA

LEMPERT BONE NIBE

Length: 18cm (7.0 in)
Bite: 2mm To 8.0mm
Single Action



Straight



ET-2121-18CM-ST

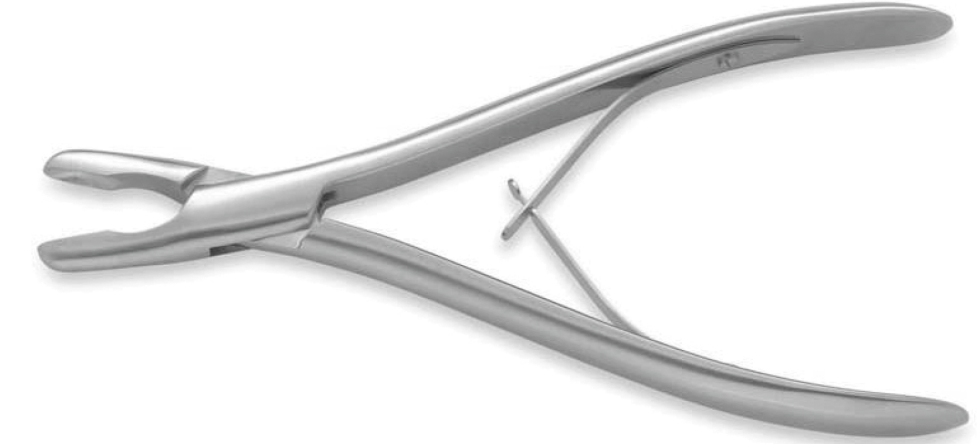
Curved



ET-2121-18CM-CR

ADSON BONE NIBBLER

Length: 20cm (8.0 in)
Bite: 2mm To 7.0mm
Single Action



Straight



ET-2222-20CM-SA

BONE NIBBLERS & CUTTERS

PENNYBACKER BONE NIBBLER

Length: 20cm (8in)
 Bite: 2.0mm To 8.0mm
 Single Action

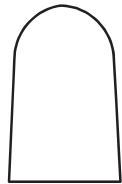


ET-2222-20CM-SA



NORTHFIELDS BONE NIBBLER

Length: 20cm (8.0 in)
 Bite: 2.0mm To 10mm
 Single Action

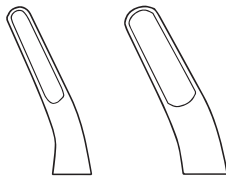


ET-2323-20CM-SA

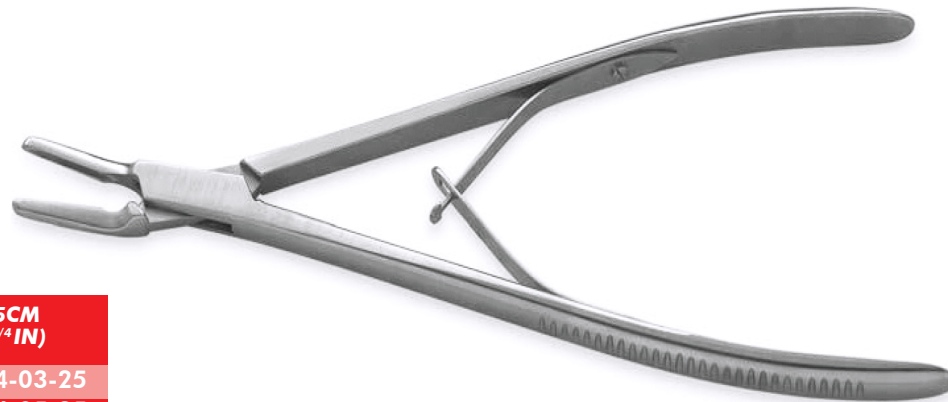


ZIELKE INTERVERTEBRAL RC

Angled Parallel Jaws



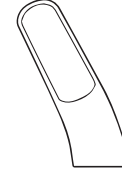
BITE SIZE /MM	21CM (8 1/4 IN)	25CM (9 3/4 IN)
3.0mm	2424-03-21	2424-03-25
5.0mm	2424-05-21	2424-05-25



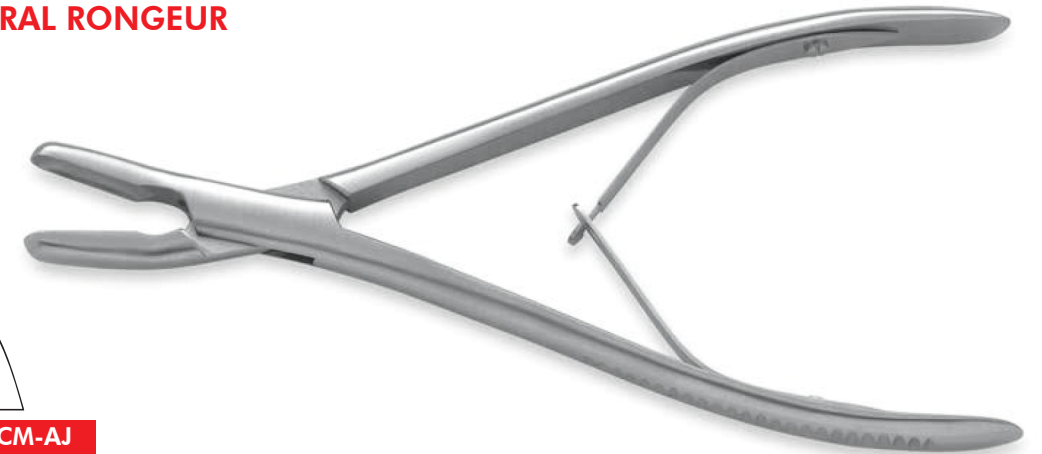
BONE NIBBLERS & CUTTERS

MATZEN INTERVERTEBRAL RONGEUR

Length: 20cm (8.0 in)
 Bite: 2.0mm To 8.0mm
 Angled Jaws



ET-2525-20CM-AJ



BEYER BONE NIBBLER

Length: 18cm (7.0 in)
 Bite: 4.0mm To 8.0mm
 Curved Jaws, Double Action



ET-2626-18CM-CJ



STILLE-LUER BONE NIBBLE

Length: 22cm (8 3/4 in)
 Bite: 2.0mm To 10mm
 Double Action

Straight



ET-2727-22CM-ST

Curved



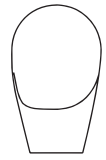
ET-2727-22CM-CR



BONE NIBBLERS & CUTTERS

MR BLOOBY' STILLE-LUER BONE NIBBLER

Length: 26cm (10¹/₄in)
 Bite: 17mm
 Double Action



Straight

ET-2828-26CM-ST



Curved

ET-2828-26CM-CR

NORTHFIELDS BONE NIBBLER

Length: 20cm (8.0 in)
 Bite: 2.0mm To 10mm
 Single Action



3.0mm

ET-2828-20CM-03



5.0mm

ET-2828-20CM-05



8.0mm

ET-2828-20CM-08

BONE NIBBLERS & CUTTERS

MATZEN INTERVERTEBRAL RONGEUR

Length: 18cm (7in)
 Compound Action



ET-2929-18CM



STILLE-LISTON BONE CUTTER

Length: 27cm (10³/₄ in)



Straight

ET-3030-27CM-ST



Angled

ET-3030-27CM-AG



LISTON KEY HORSLEY BONE CUTTER

Length: 27cm (10³/₄ in)



Angled

ET-3131-27CM-AG





SPINAL COMPRESSORS & DISTRATOR

SPINAL COMPRESSORS & DISTRATOR

SPINAL COMPRESSOR (CURVED JAWS)

Length: 38.1cm (15in)
Angle: 300
Rode Size: 6.35mm
Double Action



SPINAL SPREADER (DISTRATOR)

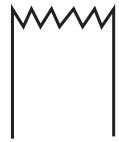
Length: 38.1cm (15in)
Angle: 300
Rode Size: 6.35mm
Double Action



LAMINA & VERTEBRAL SPREADERS

SCAGLIETTI LAMINA SPREADER

Length: 28cm (11in)
 with Speed Lock



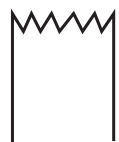
Toothed

ET-3232-28CM



LONG ANTERIOR LAMINA SPREADER

Length: 28cm (11 in)
 Maximum Opening 40mm



Toothed

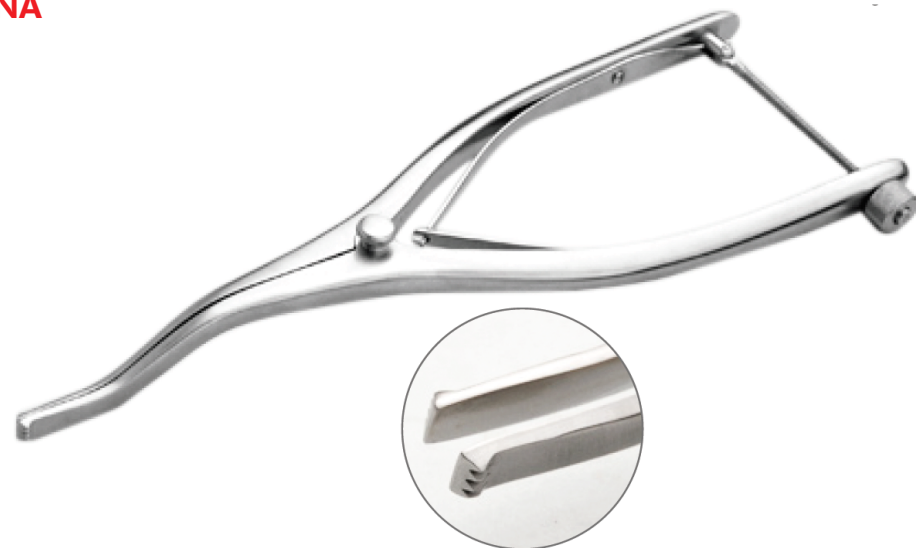
ET-3333-28CM



SCHWALBE BAYONET LAMINA SPREADER

Length: 30cm (11.8in)
 Shaft Length: 12cm (4.7in)
 Jaw Width: 8.5mm
 Bayonet Offset: 20mm

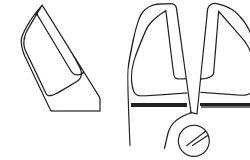
ET-3434-30CM



MISC INSTRUMENTS

MULLER-CLUAS WIRE CUTTER

Tungsten Carbide Jaws
 Double Action



18CM
(7.0 IN)

Cuts Wire up to
 2.0mm Diameter

22CM
(8 3/4 in)

Cuts Wire up to
 3.0mm Diameter



NEEDLE NOSE LOCKING PLIER

Tungsten Carbide Jaws
 Double Action



	LENGTH	CODES
Large	22CM (8 3/4 IN)	ET-2212-22
Small	25CM (9 3/4 IN)	ET-2212-25
Medium	30CM (11 3/4 IN)	ET-2212-30

BOLT CUTTER

Length: 57cm (22.4in)
 Max. Cap 6.3mm Pins





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