

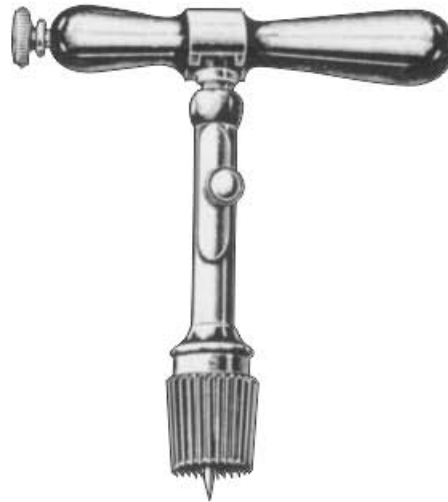
NEUROSURGERY INSTRUMENTS



Hudson
Cerabellar
Extension
10cm
10-102-02
Hudson Brace

1:2

Hubson, Brace Hand Drill
10-101-00 27cm
complete with 4 twist drills
(Fig. 1 - Fig. 4) and extension piece



GALT

- 10-103-01 Ø 12,5 mm
- 10-104-02 Ø 16 mm
- 10-105-03 Ø 19 mm



Hudson Brace
10-106-00
28cm with Improved
Snap-Lock chuck



1:2

Huson Hand
drill bit
Fig.1
10-107-01
9mm



1:2

Huson Hand
drill bit
Fig.2
10-108-02
14mm



1:2

Huson Hand
drill bit
Fig.3
10-109-03
16mm



1:2

Huson Hand
drill bit
Fig.4
10-110-04
22mm



ADSON
10-111-05
Ø 15mm



1:2

McKenzie
Hand drill bit
10-112-06
13mm



1:2

Cushing
Hand drill bit
10-113-07
14mm



Ø 2mm
10-114-08



**Crutchfield
Traction Tongs**
10-115-13 13cm
small

10-117-01



Crutchfield drill bit 3.5mm **Crutchfield drill bit** 5mm
Set of 2 Pieces for
10-115-13 and 10-116-18



**Crutchfield
Traction Tongs**
10-116-18 18.5cm



KUMMAS
CORPORATION



Crutchfield Skull
10-118-11
large type, cervical traction tongs -
pins adjustable no drilling to be done
11cm



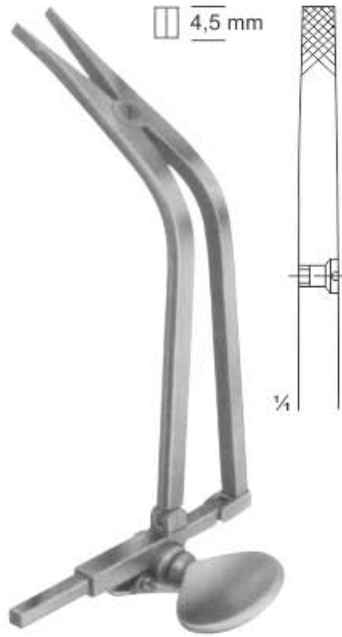
10-119-01
Wrench double-ended for

LAMINA SPREADERS

Lamina-Spreizer | Esparcidores de láminas
Épandeurs de lamelles | Spalmatori di lamina



Cloward Vertebral Cervical Spreader
10-120-01



Cloward Retractor
10-121-13 13.5 cm



Cloward Retractor
10-122-15 15.5 cm



Spinal Distractor
10-123-24 24cm
45° angle / small style
6mm rods

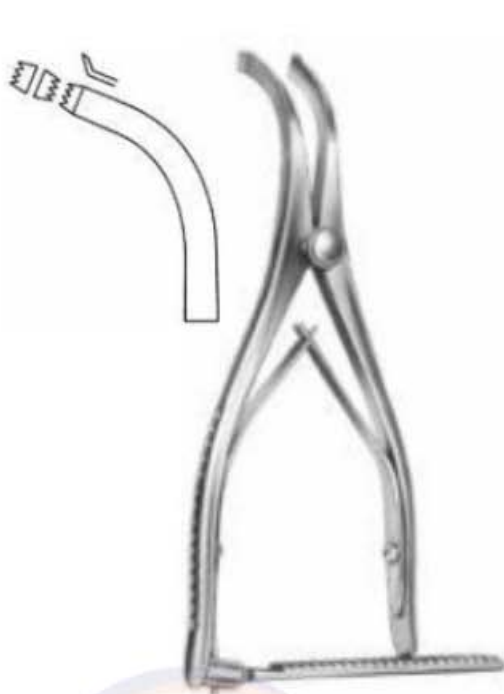


Spinal Distractor
10-124-25 25.5cm
small style

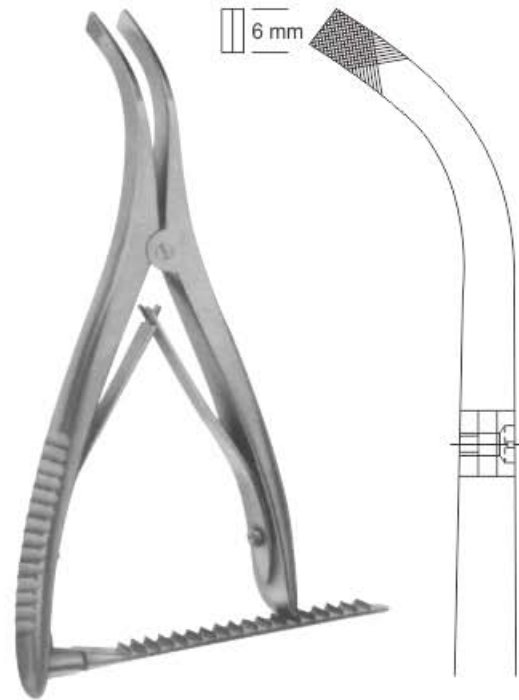


Inge Retractor
10-125-20 20.5cm
toothed w/spindle

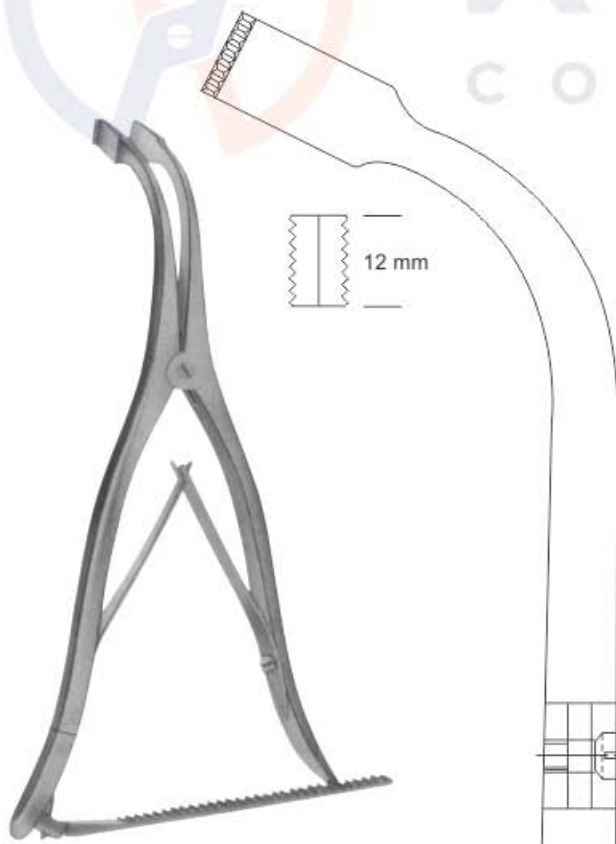
KUMMAS
CORPORATION



Inge
Lamina Spreader
10-126-16
16 cm



Inge Retractor
10-127-17 17 cm



Inge Retractor
10-128-27 27.5 cm

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CORPORATION



Supra Cut Distraction Screw
10-129-12 12mm
10-130-14 14mm
10-131-16 16mm
10-132-18 18mm



Supra Cut Distraction Screw Driver
10-133-01

RETRACTORS

Wundhaken | Ecarteurs
Separadores | Divaricatori



25-712-00
Frame only

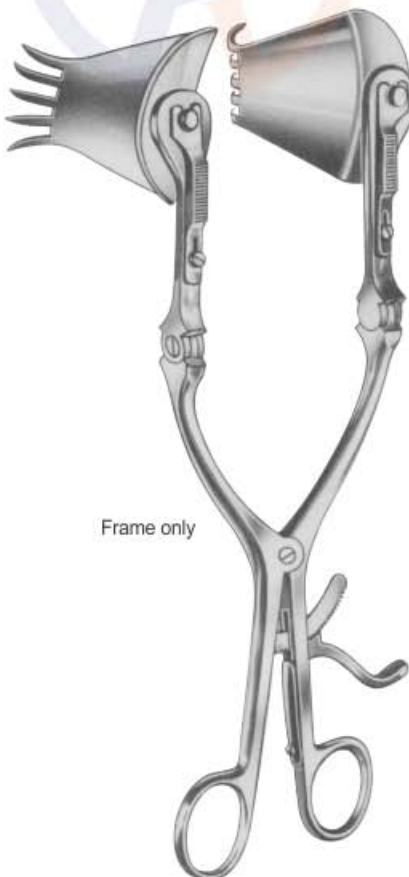


Hoen Hemilaminectomy Retractors
Interchangeable Lateral Blades,
sharp-pronged
10-135-01 45x35mm
10-136-02 45x45mm

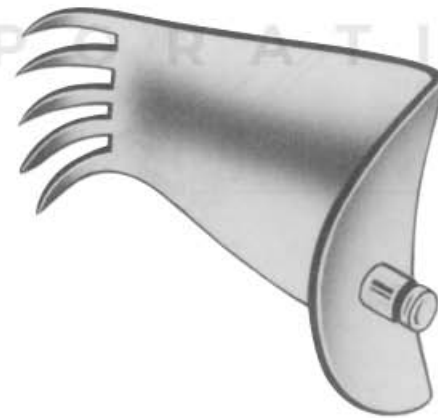


Hoen Hemilaminectomy Retractors
Interchangeable Lateral Blades,
with blunt prongs
10-137-03 25x35mm
10-138-04 25x45mm

Hoen
10-134-00
27cm
Hemi-Laminectomy Retractor, max
spread 65mm, complete with 4
lateral blades



Frame only



Cloward-Hoen
Interchangeable Lateral Blades,
with pronged blades
10-140-01 25-50x55mm
10-141-02 25-50x65mm

Cloward-hoen
10-139-00
25cm
hemi-laminectomy Retractor, max
spread 65mm, complete with 1 pair
lateral blades ea No. 10-140-01
and 10-141-02

RETRACTORS, SELF RETAINING BRAIN RETRACTOR

Retraktoren, selbthaltender Gehirnretractor
Écarteurs, écarteur cérébral auto-rétentif

Retractoros, Retractor de cerebro autosujetante
Divaricatori, divaricatore cerebrale autobloccante



Cloward
10-142-00
25cm
Cervical retractor,
max. spread 114mm,
complete with 5 toothed
blades No. **10-148-01** through
10-152-09



Cloward
Intchangeable Lateral Blades,
blunt,
width 15/23mm
10-143-03 depth 40mm
10-144-04 depth 45mm
10-145-07 depth 50mm
10-146-08 depth 55mm
10-147-10 depth 60mm



Cloward
Intchangeable Lateral Blades,
toothed,
width 15/23mm
10-148-01 depth 40mm
10-149-02 depth 45mm
10-150-05 depth 50mm
10-151-06 depth 55mm
10-152-09 depth 60mm

KUMMAS
CORPORATION



10-153-00
Brain retractor self retaining, with 1 flexible arm,
complete consisting of fixation base for 1 flexible
arm flexible arm only support for flat brain spatulas

10-154-00
Brain retractor self retaining, with 2 flexible arm,
complete consisting of fixation base for 2 flexible
arm flexible arm only support for flat brain spatulas

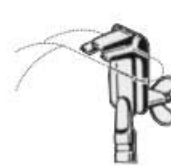


10-155-01
Fixation base only
holding 2 flexible arms
10-156-02
Support only for flat
brain spatulas

10-157-01
Fixation base only
holding 1 flexible arms
10-158-02
Support only for brain spatulas with round shaft of
4mm and 5mm to fix on the flexible arm
10-159-03
Flexible arm only for attaching
coupling heads and for fixation bases



10-160-00
flexible Arm only



10-161-01
Support only,
flat brain spatulas,



10-162-02
Support only,
for brain spatulas
with round shaft
up to 5.5 mm diam.
Fixing for flexible



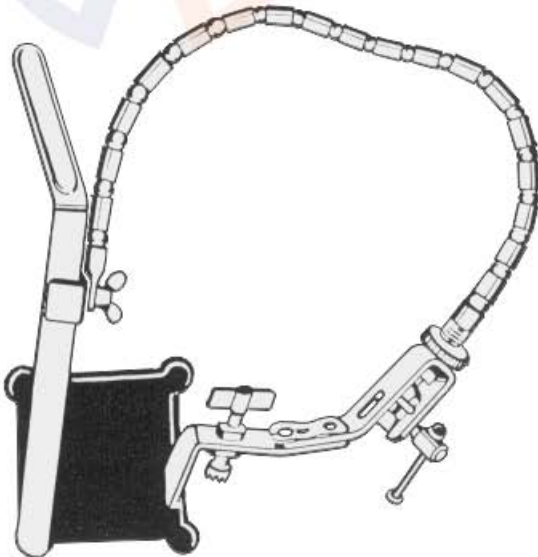
Riechert
10-163-03
Fixation base, for skull
mounting, holding 1
flexible arms



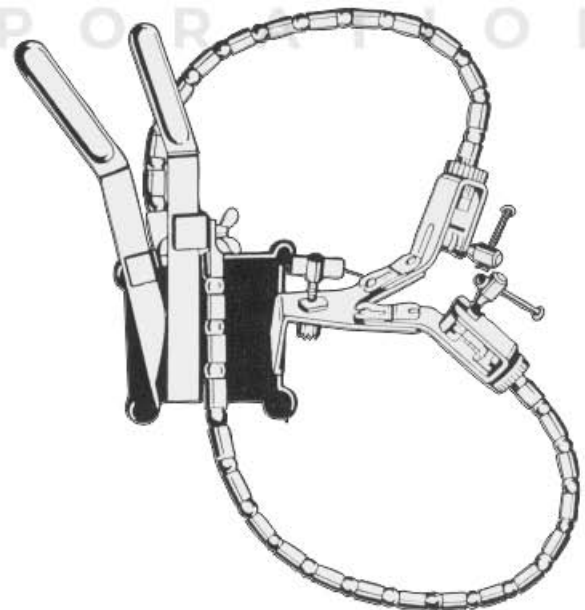
Riechert
10-164-04
Fixation base, for skull
mounting, holding 2
flexible arms



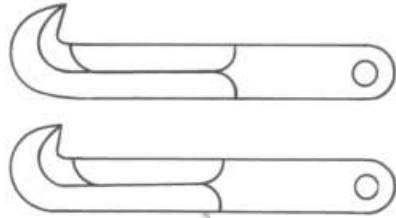
10-165-05
Fixation base, for skull
mounting, holding 1
flexible arms



Leyla
10-166-00
Self-Retaining Brain Retractor
with 1 flexible arm, complete consisting of
10-167-01 1 Flexible Tension Arm
10-168-02 1 Flexible Base
10-169-03 1 Spatula Support



Leyla
10-170-00
Self-Retaining Brain Retractor
with 2 flexible arms, complete consisting of
10-171-01 2 Flexible Tension Arm
10-172-02 1 Flexible Base
10-173-03 2 Spatula Support



CONE SKULL PUNCH
 10-174-10

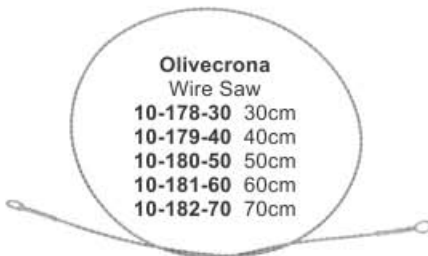
20cm child size
 for skull thickness up to 7mm
 10-175-11
 23cm adult size
 for skull thickness up to 12mm



DeVilbiss
 Skull Forceps
 10-176-20
 20cm

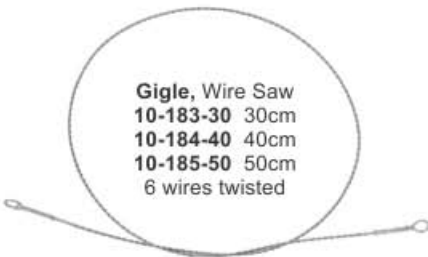


Dahlgren
 10-177-20
 Cranial Rongeur
 20 cm



Olivecrona

Wire Saw
 10-178-30 30cm
 10-179-40 40cm
 10-180-50 50cm
 10-181-60 60cm
 10-182-70 70cm



Gige, Wire Saw
 10-183-30 30cm
 10-184-40 40cm
 10-185-50 50cm
 6 wires twisted



Gige
 Handle for
 wire saw
 10-186-00



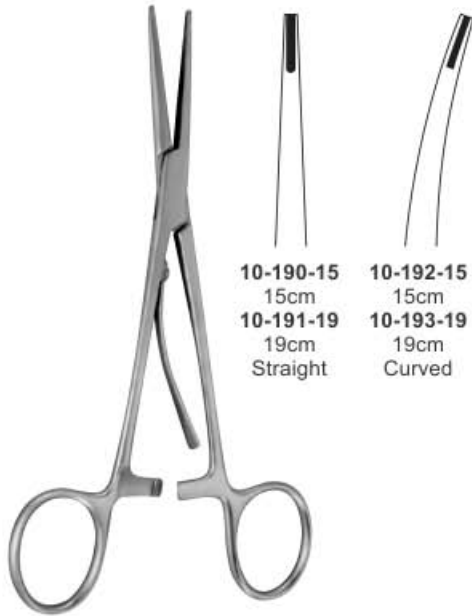
De Martel
 Saw Conductor
 10-187-33 33cm



Davis
 Guide for Gigli Saws
 10-188-20 20cm



Bailey-Gigli
 Saw Guide flexible
 10-189-30 30.5cm



10-190-15 15cm
 10-191-19 19cm
 Straight

10-192-15 15cm
 10-193-19 19cm
 Curved

McKenzie Clip Applying Forceps



McKenzie Clip Applying Forceps
 10-194-15
 Curved Handle, Curved Jaws, 15cm



McKenzie
 10-195-00 148mm x 40mm x 6mm
 Brain clip rack for 20 clips



10-196-00
McKenzie
 Silver Clips.
 vial/100 pieces



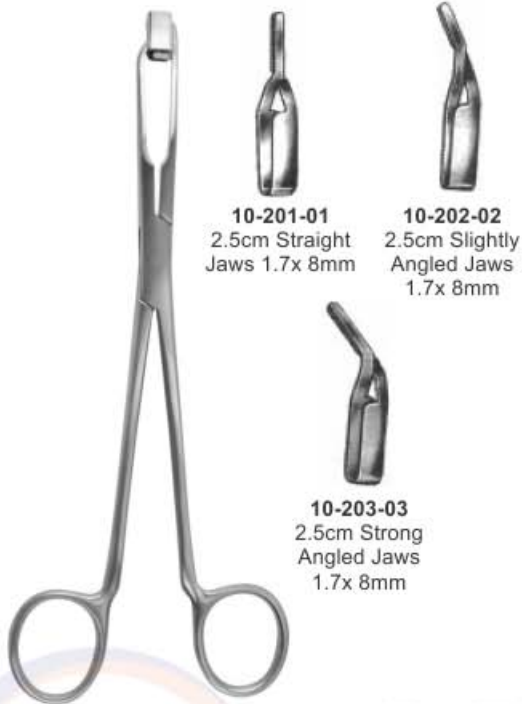
Smithwick Clip Applying Forceps
 10-197-23
 23 cm Curved Jaws
 Straight Handle



Smithwick Clip Applying Forceps
 10-198-26
 26.5 cm Curved Jaws
 Straight Handle



Olivecrona Toennis (Scoville), Clip Forceps
 10-199-14 14cm



10-201-01
2.5cm Straight
Jaws 1.7x 8mm

10-202-02
2.5cm Slightly
Angled Jaws
1.7x 8mm

10-203-03
2.5cm Strong
Angled Jaws
1.7x 8mm

Schwartz Clip Applying Forceps
10-200-00 20cm
Schwartz Vessel Clip



10-205-00
**Raney Scalp
Clip**



10-206-00
**Kolner (Cologne)
Scalp Clip**

**Raney Applying &
Removing Forceps**
10-204-15 15cm



Adson
Drill guide
10-207-15 15cm

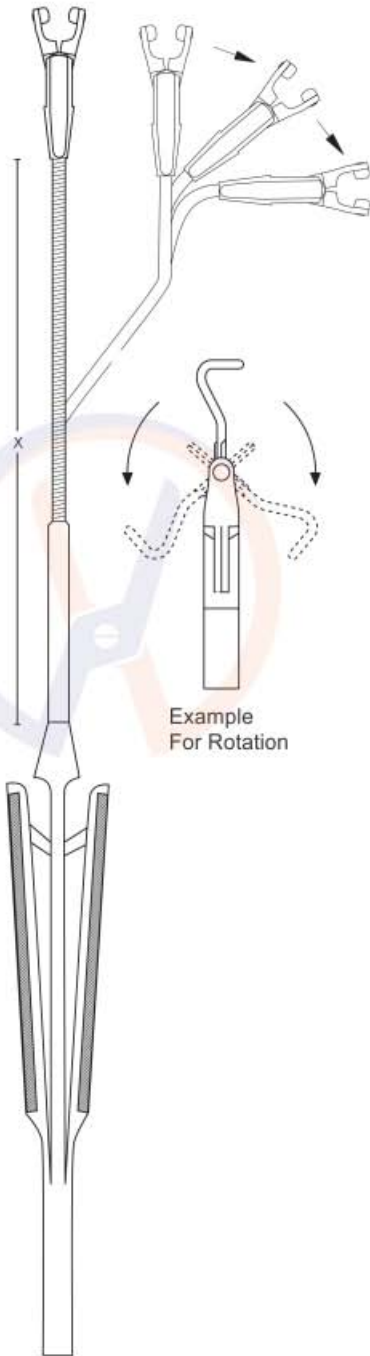


10-208-01

10-209-02

10-210-03

Michele Trephine,
10-208-01 16cm shaft, 0.47cm
O.D graduated 0.64cm To 3.2cm
10-209-02 16cm shaft, 0.79cm
O.D graduated 0.64cm To 3.2cm
10-210-03 16cm shaft, 0.56cm
O.D graduated 0.64cm To 3.2cm

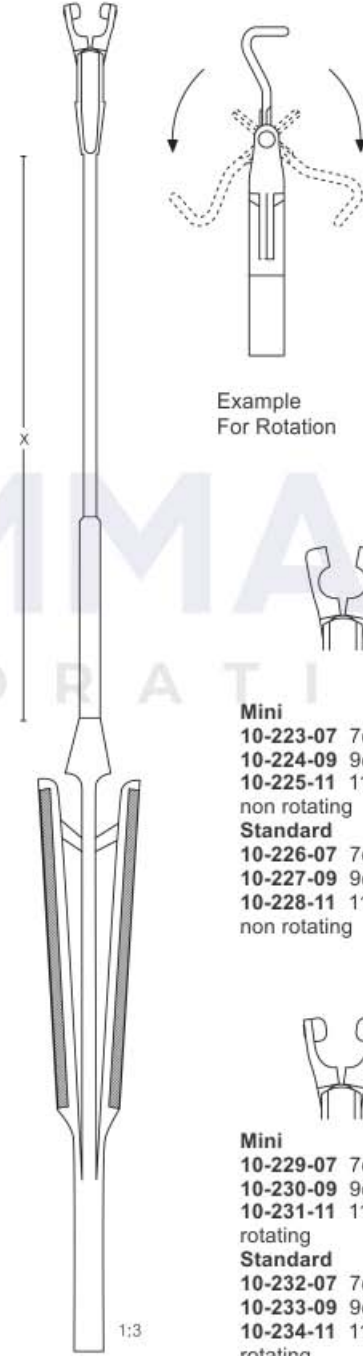


Example
For Rotation

- Mini**
10-211-07 7cm
10-212-09 9cm
10-213-11 11cm
non rotating
Standard
10-214-07 7cm
10-215-09 9cm
10-216-11 11cm
non rotating



- Mini**
10-217-07 7cm
10-218-09 9cm
10-219-11 11cm
rotating
Standard
10-220-07 7cm
10-221-09 9cm
10-222-11 11cm
rotating



Example
For Rotation

- Mini**
10-223-07 7cm
10-224-09 9cm
10-225-11 11cm
non rotating
Standard
10-226-07 7cm
10-227-09 9cm
10-228-11 11cm
non rotating



- Mini**
10-229-07 7cm
10-230-09 9cm
10-231-11 11cm
rotating
Standard
10-232-07 7cm
10-233-09 9cm
10-234-11 11cm
rotating

1:3

Applying Forceps
For Yasargil Clips
Malleable

Applying Forceps
For Yasargil Clips
Rigid



Clip Applying Forceps
for standard vessel clips
10-235-18 18cm
10-236-22 22cm



10-237-01
7mm



10-238-02
9mm



10-239-03
9mm



10-240-04
9mm



10-241-05
9mm

"Standard"

"Standard" Micro Vessel and Aneurysm Clips, made of SMO-Steel
10-237-01 length of jaws 7mm, straight
10-238-02 length of jaws 9mm, straight
10-239-03 length of jaws 9mm, angular
10-240-04 length of jaws 9mm, slightly curved
10-241-05 length of jaws 9mm, strong curved



Clip Applying Forceps
for Mini vessel clips
10-242-18 18cm
10-243-22 22cm



10-244-01
4mm



10-245-02
6mm



10-246-03
5mm



10-247-04
7mm

"Mini"

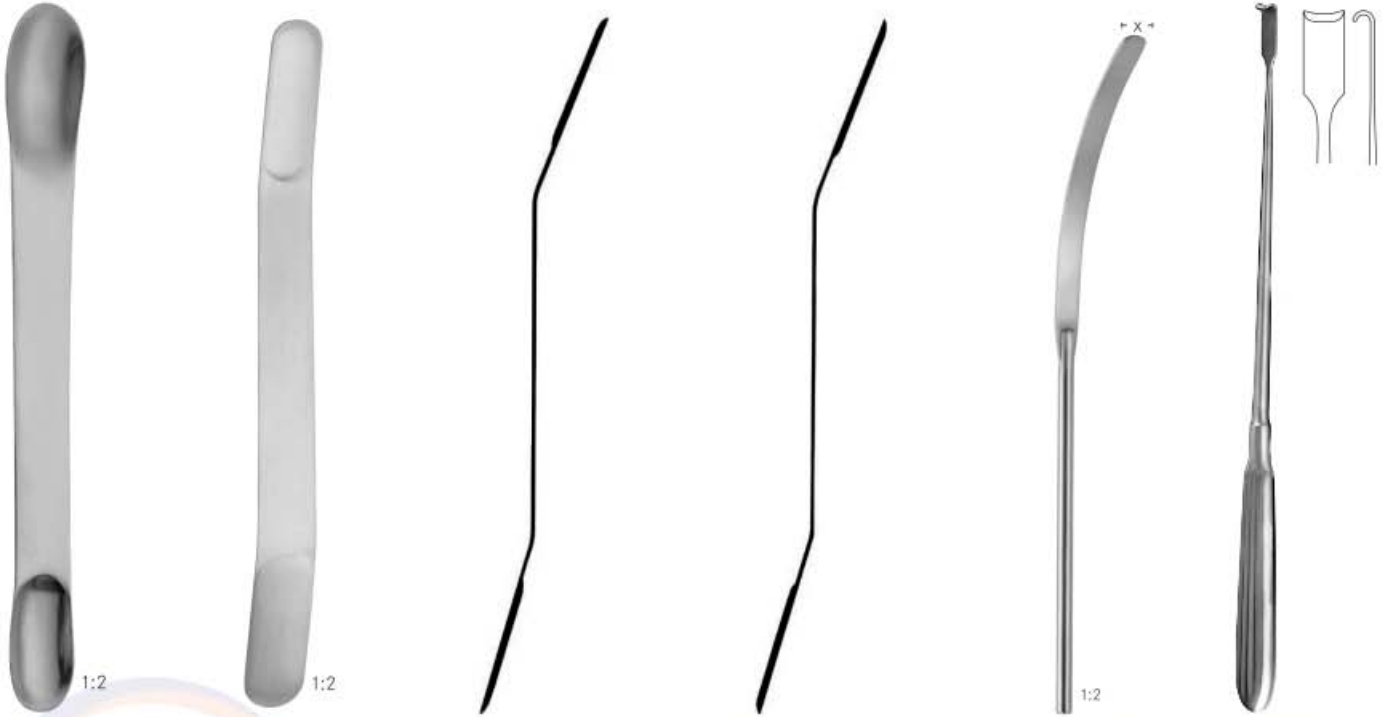
"Mini" Micro Vessel and Aneurysm Clips, made of SMO-steel
10-244-01 length of jaws 4mm, straight
10-245-02 length of jaws 6mm, straight
10-246-03 length of jaws 5mm, curved
10-247-04 length of jaws 7mm, curved



1:2 Clip Applying Forceps

For Mini Vessel Clips
10-248-18 18cm
For Standard Vessel Clips
10-249-18 18cm
 Applying Forceps
 Straight with catch

Standard
10-250-18 18cm
10-251-22 22cm
Mini
10-252-18 18cm
10-253-22 22cm
 Applying Forceps
 Bayonet Shape with catch



Cushing, brain spatula
 10-254-07 7mm x 9mm
 10-255-11 11mm x 13mm
 10-256-15 15mm x 18mm
 10-257-18 18mm x 22mm
 18cm

Olivecrona
 10-258-18
 brain spatula
 18cm

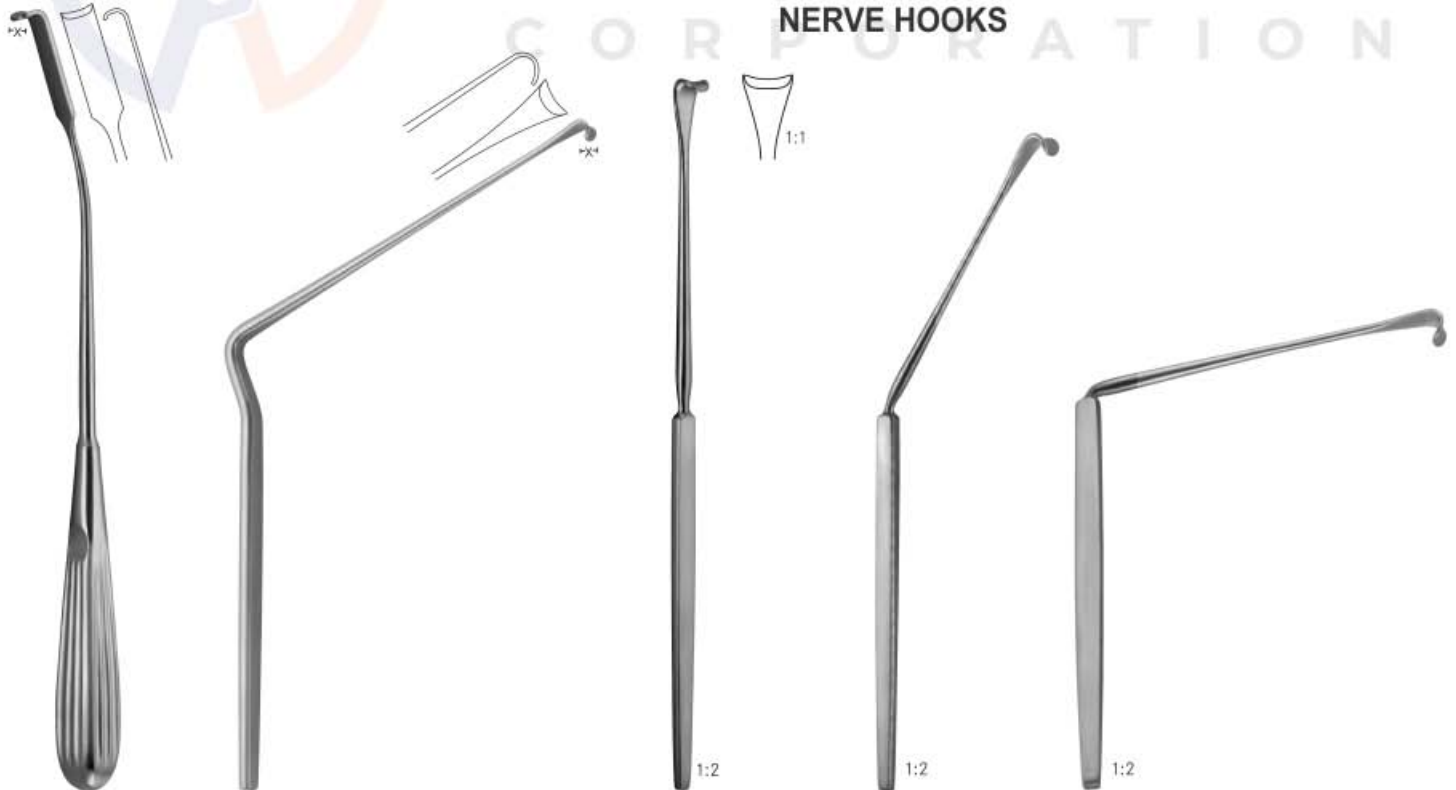
Brain Spatula
 10-259-07 7mm x 9mm
 10-260-11 11mm x 13mm
 10-261-15 15mm x 18mm
 10-262-18 18mm x 22mm
 18cm Convex

Brain Spatula
 10-263-07 7mm x 9mm
 10-264-11 11mm x 13mm
 10-265-15 15mm x 18mm
 10-266-18 18mm x 22mm
 18cm Concave

Heifetz, brain spatula
 10-267-08 8mm
 10-268-11 11mm
 10-269-14 14mm
 10-270-17 17mm
 10-271-20 20mm
 20cm Malleable

Scoville, Nerve Root Retractor
 10-272-23 23cm
 8mm

NERVE HOOKS



Holsher Nerve Root Retractor
 10-273-24 24cm
 7mm

Martin Nerve Root Retractor
 10-274-20 20cm
 7mm

Love Nerve Dura Hook Retractor
 10-275-00 19cm
 Straight

Love Nerve Dura Hook Retractor
 10-276-45 19cm
 45° Angled

Love Nerve Dura Hook Retractor
 10-277-90 19cm
 90° Angled

Nervenhooken - Durahaken

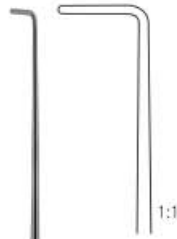
Ganchos para nervios - Ganchos para duramadre

Crochets a nerfs - Crochets pour duremers

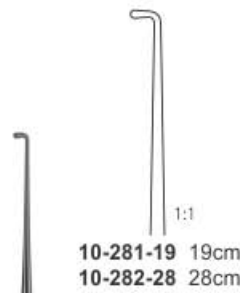
Uncini per nervi - Uncini per duramadre



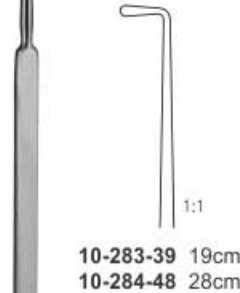
Smithwick Nerve Dura Hook
10-278-17 17cm
10-279-21 21cm



Hoen Nerve Dura Hook
10-280-22 22cm



10-281-19 19cm
10-282-28 28cm



10-283-39 19cm
10-284-48 28cm



Graham Nerve Dura Hook
10-285-16 16cm



Frazier Nerve Dura Hook
10-286-17 17cm



Dandy Nerve Dura Hook
10-287-01 20cm



Dandy Nerve Dura Hook
10-288-02 20cm



Dandy Nerve Dura Hook
10-289-03 20cm



10-290-20 20cm



10-291-20 20cm



Adson Nerve Dura Hook



Groningen Nerve Hook
10-292-26 26.5 cm



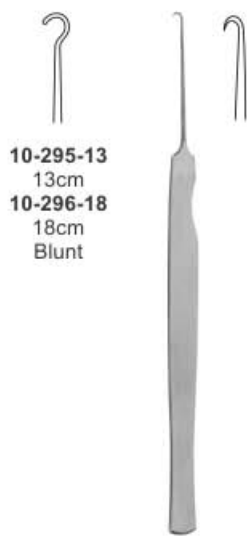
Groningen Nerve Hook
10-293-26 26.5 cm



**Cushing Nerve Dura
Hook Retractor**
10-294-14
14cm



**Frazier Nerve Dura
Hook Retractor**



10-295-13
13cm
10-296-18
18cm
Blunt

**Lahey Nerve Dura
Hook Retractor**
10-297-13
13cm



10-298-15
15cm



10-299-19
19cm

**Toennis Nerve
Dura knife**



**Halle Nerve
Dura knife**
10-300-20 20cm



**Olivecrona
10-301-18
Dura Dissector**
18 cm



**Olivecrona
10-302-20
Dura Dissector**
20 cm



**Milligan
10-303-21
Dura Dissector**
21.5 cm



**Davis
10-304-21
Dura Dissector sharp**
21.5 cm



**Davis Dura
Dissector**
10-305-24
24.5cm



Dura Dissector
10-306-22 22cm



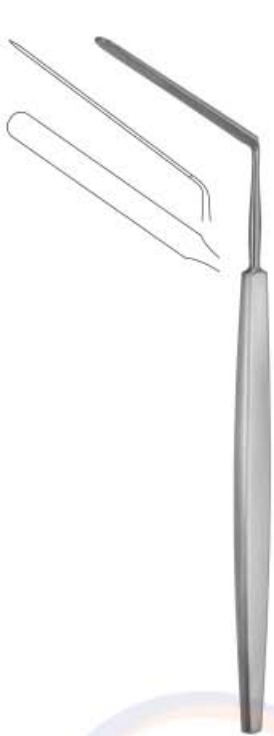
**Sachs Dura
Dissector**
10-307-21 21cm



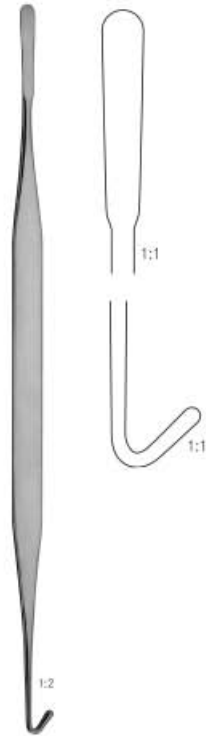
**Sachs Dura
Dissector**
10-308-21 21cm

DURA DISSECTORS

| | |
|----------------------------|--------------------------------|
| <i>Dura-Dissektoren</i> | <i>Disectores de duramadre</i> |
| <i>Decolleurs duremere</i> | <i>Dissetori per duramadre</i> |



Horsley Dura Dissector
10-309-20
20cm



Smithwich Dura Dissector
10-310-30
30.5cm



Toennis Dura Dissector
10-311-25
25cm



Sachs Dura Dissector
10-312-21
21cm



Yasargil Nerve Dura Hook Retractor
10-313-21 21cm
10-314-41 41cm
Galea retractor



Penfield Dura Dissector
10-315-01 17.5cm



Penfield Dura Dissector
10-316-02 19.5cm



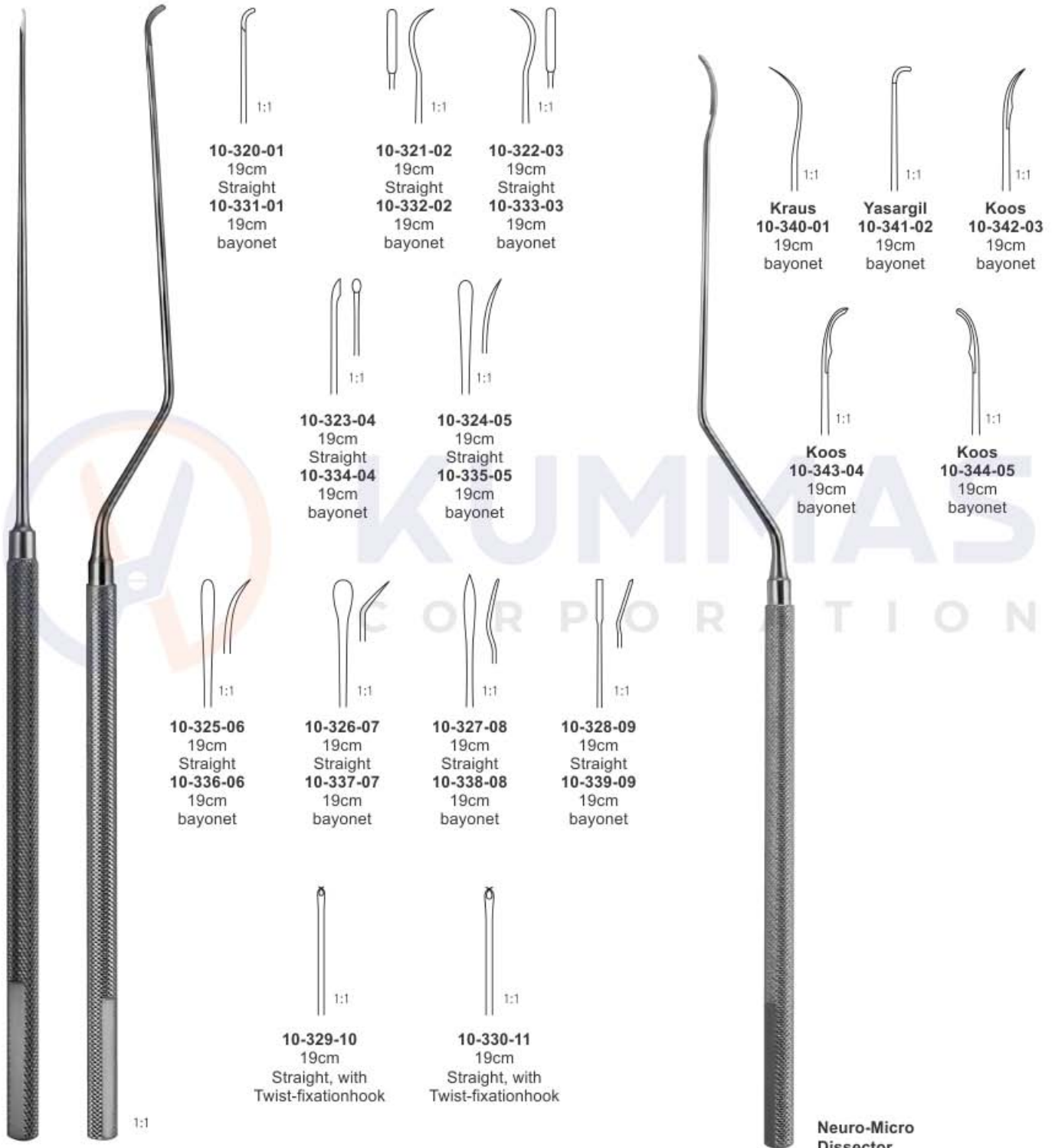
Penfield Dura Dissector
10-317-03 19.5cm



Penfield Dura Dissector
10-318-04 19.5cm



Penfield Dura Dissector
10-319-05 19.5cm



10-320-01
19cm
Straight
10-331-01
19cm
bayonet

10-321-02
19cm
Straight
10-332-02
19cm
bayonet

10-322-03
19cm
Straight
10-333-03
19cm
bayonet

Kraus
10-340-01
19cm
bayonet

Yasargil
10-341-02
19cm
bayonet

Koos
10-342-03
19cm
bayonet

10-323-04
19cm
Straight
10-334-04
19cm
bayonet

10-324-05
19cm
Straight
10-335-05
19cm
bayonet

Koos
10-343-04
19cm
bayonet

Koos
10-344-05
19cm
bayonet

10-325-06
19cm
Straight
10-336-06
19cm
bayonet

10-326-07
19cm
Straight
10-337-07
19cm
bayonet

10-327-08
19cm
Straight
10-338-08
19cm
bayonet

10-328-09
19cm
Straight
10-339-09
19cm
bayonet

10-329-10
19cm
Straight, with
Twist-fixationhook

10-330-11
19cm
Straight, with
Twist-fixationhook

Yasargil Neuro-Micro Dissector
10-320-01 to 10-330-11
Straight
10-331-01 to 10-339-09
Bayonet

Neuro-Micro Dissector



Jacobson Neuro-Micro Dissector
10-345-19
19cm



Neuro-Micro Dissector
10-346-01
19cm



Jacobson Neuro-Micro Dissector
10-347-02
19cm



Fisch Neuro-Micro Dissector
10-348-03
19cm



KUMMAS
CORPORATION



Hardy Neuro-Micro Dissector
10-349-01
25cm
bayonet, sharp inner edge



Hardy Neuro-Micro Dissector
10-350-02
25cm
bayonet, sharp inner edge



Hardy Neuro-Micro Dissector
10-351-03
25cm
bayonet, sharp inner edge



Hardy Neuro-Micro Dissector
10-352-04
25cm
bayonet, sharp inner edge



Hardy Neuro-Micro Dissector
10-353-04 4mm
27cm
bayonet, malleable



Hardy Neuro-Micro Dissector
10-354-06 6mm
27cm
bayonet, malleable

Tumor Seizing Forceps, Micro Forceps



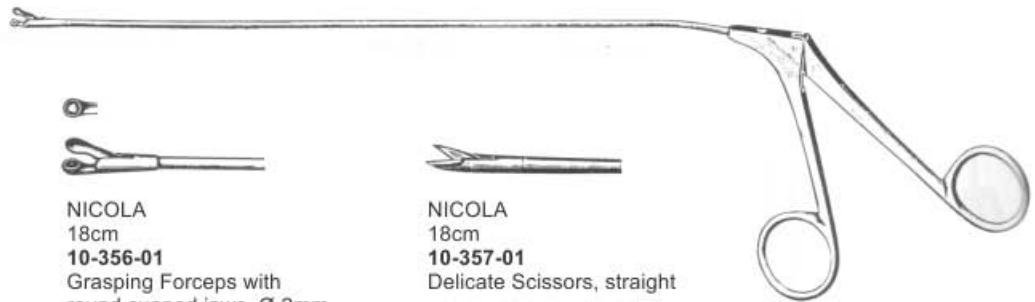
YASARGIL
18cm
10-355-01
Alligator-type Grasping Forceps, delicate, serrated jaws, straight



NICOLA
18cm
10-356-01
Grasping Forceps with round cupped jaws, Ø 2mm, straight



NICOLA
18cm
10-357-01
Delicate Scissors, straight



YASARGIL
Tumor Grasping Forceps
10-358-22 22cm
round, serrated jaws,
3mm Ø, bayonet-shaped



YASARGIL
Tumor Grasping Forceps
10-359-42 22cm
round, cupped jaws,
fenestrated, Ø 5mm,
bayonet-shaped

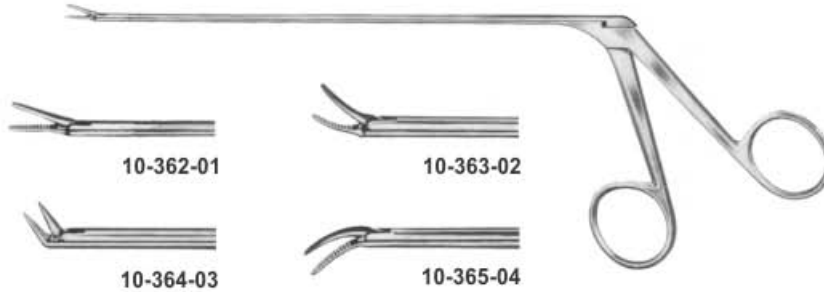


HUNT
Tumor Grasping Forceps
10-360-20 20cm
round, serrated jaws,
5mm Ø, angled,



HUNT
Tumor Grasping Forceps
10-361-22 22cm
round, serrated jaws,
5mm Ø, bayonet-shaped

Micro Grasping Forceps, Micro Scissors on forceps-type handle



Micro Grasping Forceps,
very delicate, serrated jaws,
length 6mm x width 0.5mm,
length of shaft 14cm

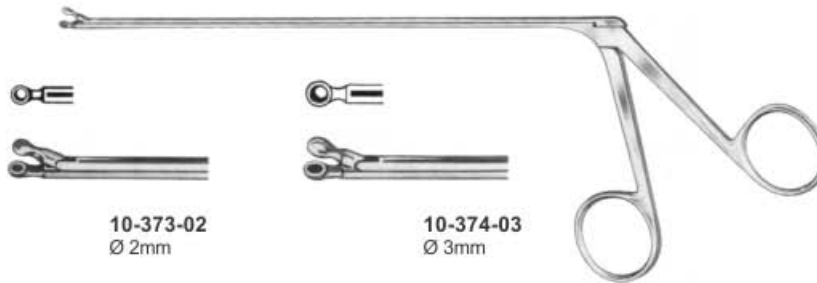
- 10-362-01 straight jaws
- 10-363-02 jaws angled right
- 10-364-03 jaws angled left
- 10-365-04 jaws angled up



Micro Grasping Forceps,
very delicate, with round cup jaws,
length of shaft 14cm

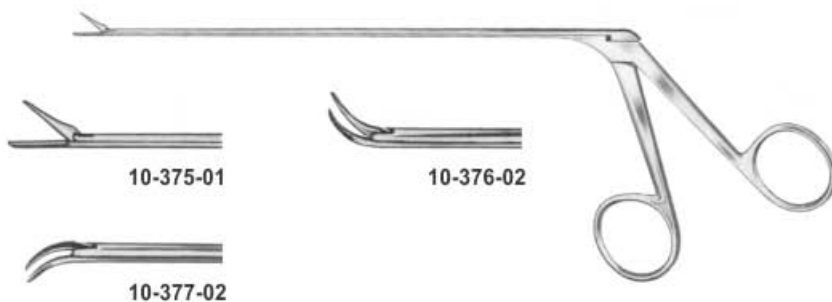
- 0.5mm cup**
- 10-366-01 straight jaws
 - 10-367-02 jaws angled right
 - 10-368-03 jaws angled left
 - 10-369-04 jaws angled up

- 1.0mm cup**
- 10-370-01 straight jaws
 - 10-371-02 jaws angled right
 - 10-372-03 jaws angled left



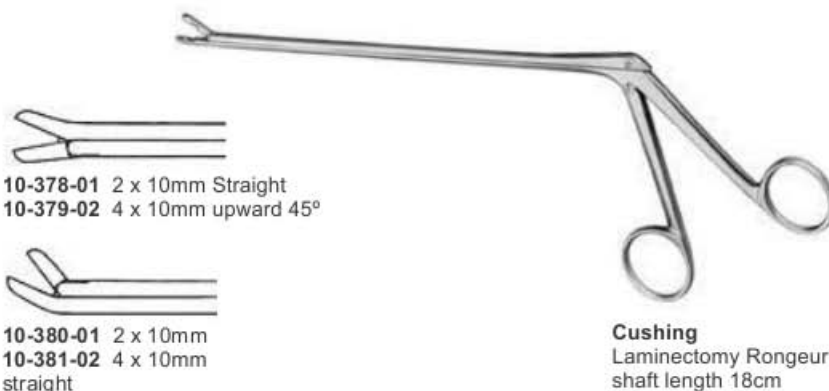
Micro Grasping Forceps,
very delicate, with round cup jaws,
length of shaft 14cm

- 10-373-02 2mm cup, straight jaws
- 10-374-03 3mm cup, straight jaws



Micro Scissors, very delicate,
cutting blades 8mm, blunt tips,
length of shaft 14cm

- 10-375-01 straight blades
- 10-376-02 blades curved right
- 10-377-03 blades curved left



Cushing Intervertebral Disc Rongeurs

2 X 10mm, 13cm
10-382-01 Straight
10-383-02 UP
10-384-03 Down






Love-Gruenwald Intervertebral Disc Rongeurs

3 X 10mm, 13cm
10-385-01 Straight
10-386-02 Up
10-387-03 Down

Spurling Intervertebral Disc Rongeurs

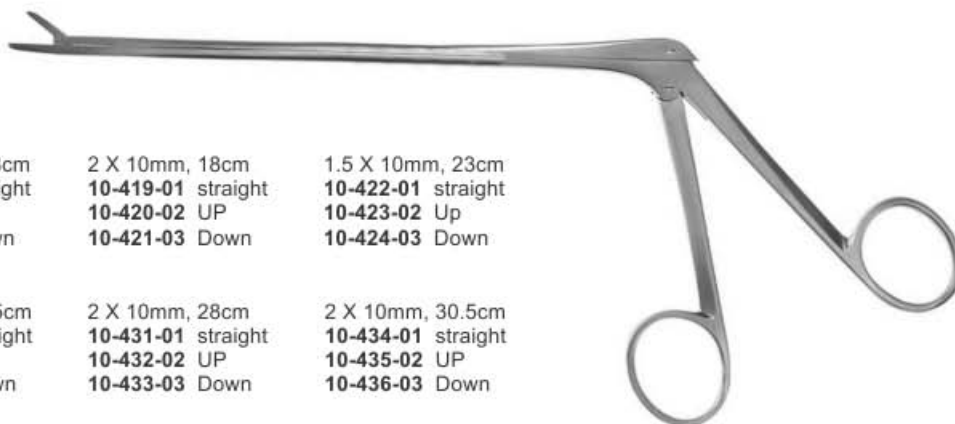
4 X 10mm, 13cm
10-388-01 Straight
10-389-02 Up
10-390-03 Down



| | | | | | | |
|--|-------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|  | 12cm Straight | Fig. 1 3.0mm 10-391-01 | Fig. 2 3.5mm 10-392-02 | Fig. 3 4.5mm 10-393-03 | Fig. 4 5.0mm 10-394-04 | Fig. 5 5.5mm 10-395-05 |
|  | 12cm 45° up | 10-396-01 | 10-397-02 | 10-398-03 | 10-399-04 | 10-400-05 |
|  | 12cm 90° up | 10-401-01 | 10-402-02 | 10-403-03 | | |
|  | 18cm 45° up | Fig. 1 3.0mm 10-404-01 | Fig. 2 3.5mm 10-405-02 | Fig. 3 4.5mm 10-406-03 | Fig. 4 5.0mm 10-407-04 | Fig. 5 5.5mm 10-408-05 |
|  | 18cm 7" 90° up | 10-409-01 | 10-410-02 | 10-411-03 | 10-412-04 | |

Cushing Intervertebral Disc Rongeurs

| | | | |
|--|--|--|--|
| 2 X 10mm, 15cm 10-413-01 straight 10-414-02 UP 10-415-03 Down | 1.5 X 10mm, 18cm 10-416-01 straight 10-417-02 Up 10-418-03 Down | 2 X 10mm, 18cm 10-419-01 straight 10-420-02 UP 10-421-03 Down | 1.5 X 10mm, 23cm 10-422-01 straight 10-423-02 Up 10-424-03 Down |
| 2 X 10mm, 23cm 10-425-01 straight 10-426-02 UP 10-427-03 Down | 2 X 10mm, 25.5cm 10-428-01 straight 10-429-02 UP 10-430-03 Down | 2 X 10mm, 28cm 10-431-01 straight 10-432-02 UP 10-433-03 Down | 2 X 10mm, 30.5cm 10-434-01 straight 10-435-02 UP 10-436-03 Down |



Love-Gruenwald Intervertebral Disc Rongeurs

| | | |
|--|--|--|
| 3 X 10mm, 15cm 10-437-01 straight 10-438-02 Up 10-439-03 Down | 3 X 10mm, 18cm 10-440-01 straight 10-441-02 Up 10-442-03 Down | 3 X 10mm, 23cm 10-443-01 straight 10-444-02 Up 10-445-03 Down |
| 3 X 10mm, 25.5cm 10-446-01 straight 10-447-02 Up 10-448-03 Down | 3 X 10mm, 28cm 10-449-01 straight 10-450-02 Up 10-451-03 Down | 3 X 10mm, 30.5cm 10-452-01 straight 10-453-02 Up 10-454-03 Down |



Spurling Intervertebral Disc Rongeurs

| | | |
|--|--|--|
| 4 X 10mm, 15cm 10-455-01 straight 10-456-02 Up 10-457-03 Down | 4 X 10mm, 18cm 10-458-01 straight 10-459-02 Up 10-460-03 Down | 4 X 10mm, 23cm 10-461-01 straight 10-462-02 Up 10-463-03 Down |
| 4 X 10mm, 25.5cm 10-464-01 straight 10-465-02 Up 10-466-03 Down | 4 X 10mm, 28cm 10-467-01 straight 10-468-02 Up 10-469-03 Down | 4 X 10mm, 30.5cm 10-470-01 straight 10-471-02 Up 10-472-03 Down |





Wilde Intervertebral Disc Rongeurs

18cm Straight
10-473-01 2.5mm
10-474-02 3mm
10-475-03 4mm
10-476-04 5mm

18cm Angled up
10-477-01 2.5mm
10-478-02 3mm
10-479-03 4mm
10-480-04 5mm

23.5cm Straight
10-481-01 3mm
10-482-02 4mm
10-483-03 5mm



Caspar Type Intervertebral Disc Rongeurs

16cm Straight
10-484-01 2 x 12mm
10-485-02 3 x 12mm
10-486-03 4 x 14mm
10-487-04 5 x 14mm
10-488-05 6 x 16mm

16cm Up
10-489-01 3 x 12mm
10-490-02 4 x 14mm
10-491-03 5 x 14mm

16cm Down
10-492-01 3 x 12mm
10-493-02 4 x 14mm

KUMMAS
CORPORATION



Caspar Type Intervertebral Disc Rongeurs

18.5cm Straight
10-494-01 2 x 12mm
10-495-02 3 x 12mm
10-496-03 4 x 14mm
10-497-04 5 x 14mm
10-498-05 6 x 16mm

18.5cm Up
10-499-01 2 x 12mm
10-500-02 3 x 12mm
10-501-03 4 x 14mm
10-502-04 5 x 14mm

18.5cm Down
10-503-01 2 x 12mm
10-504-02 3 x 12mm
10-505-03 4 x 14mm



Cushing Intervertebral Disc Rongeurs

w/teeth 2 x 10mm, 18cm
10-506-01 Straight
10-507-02 Up
10-508-03 Down

L-G Intervertebral Disc Rongeurs
w/teeth 3 x 10mm, 18cm
10-509-01 Straight
10-510-02 Up
10-511-03 Down

3 x 10mm, 25.5cm
10-512-01 Straight



**Schlesinger Intervertebral
Disc Rongeurs**

- 10-513-01 2 x 10mm, 13cm Straight
- 10-514-02 3 x 10mm, 13cm Straight
- 10-515-03 4 x 10mm, 13cm Straight
- 10-516-04 3 x 10mm, 13cm Angled Up



**Cloward Intervertebral
Disc Rongeurs**

- serrated 6 x 10mm, 13cm
- 10-517-01 Straight
- 10-518-02 Up
- 10-519-03 Down



**Oldberg Intervertebral
Disc Rongeurs**

- 10-520-01 6mm Diameter
- 18.5cm



**Selverstone Intervertebral
Disc Rongeurs**

- 10-521-01 2 x 3mm, 15cm
- 10-522-02 2 x 5mm, 15cm

**Decker Intervertebral
Disc Rongeurs**

2 x 5mm, 15cm
10-523-01 Right
10-524-02 Left
10-525-03 Down
10-526-04 Up
10-527-05 Straight

**Jackson Intervertebral
Disc Rongeurs**

70° Up 18cm
10-528-01 2 x 8mm
10-529-02 3 x 8mm
10-530-03 4 x 8mm

**Williams Style Micro Disc
Intervertebral Disc Rongeurs**

1 x 2 teeth, Straight
10-531-01 14cm
10-532-02 18cm
10-533-03 25.5cm

Micro Cup Forceps

14cm, 0.5mm
10-534-01 Straight
10-535-02 Right
10-536-03 Left

Micro Cup Forceps

14cm 1mm
10-537-01 Straight
10-538-02 Right
10-539-03 Left
14cm 2mm
10-540-01 Straight

Micro Cup Forceps

20.5cm, 2mm
10-541-01 Straight
10-542-02 Up
10-543-03 Down



Peapod Intervertebral Disc Rongeurs

- | | |
|--------------------------|-----------|
| 14cm | 18cm |
| 10-544-01 Straight 2.0mm | 10-552-01 |
| 10-545-02 Straight 2.5mm | 10-553-02 |
| 10-546-03 Straight 3mm | 10-554-03 |
| 10-547-04 Straight 4mm | 10-555-04 |
| 10-548-11 Angle up 2mm | 10-556-11 |
| 10-549-12 Angle up 2.5mm | 10-557-12 |
| 10-550-13 Angle up 3mm | 10-558-13 |
| 10-551-14 Angle up 4mm | 10-559-14 |



Spurling Intervertebral Disc Rongeurs

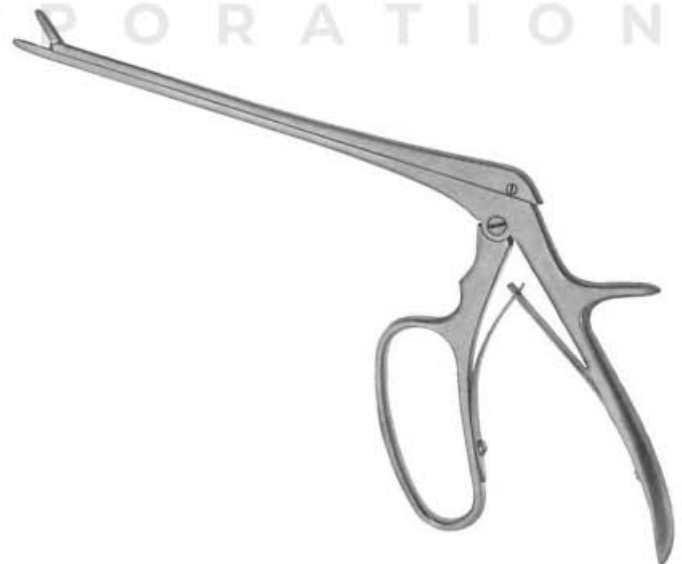
- w/teeth 4 x 10mm, 18cm
 10-560-01 Straight
 10-561-02 Up
 10-562-03 Down
 4 x 10mm, 25.5cm
 10-563-01 Straight

- 5 x 10mm, 25.5cm
 10-564-01 Straight



Ferris-Smith Intervertebral Disc Rongeurs

- 18cm straight
 10-565-01 2 x 10mm
 10-566-02 3 x 10mm
 10-567-03 4 x 8mm
 10-568-04 4 x 10mm
 10-569-05 6 x 10mm
 10-570-06 6 x 12mm

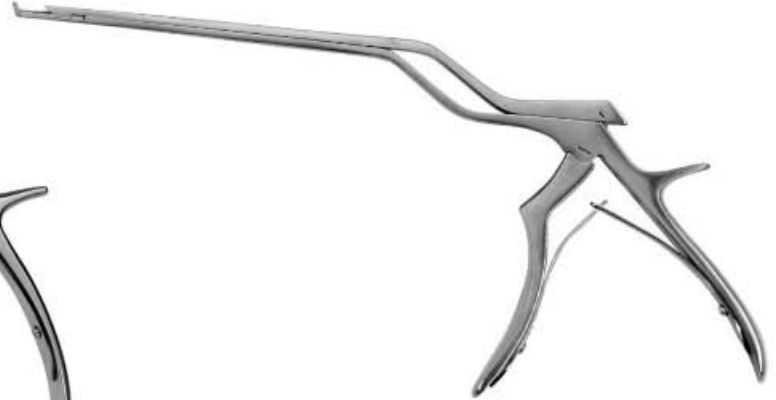
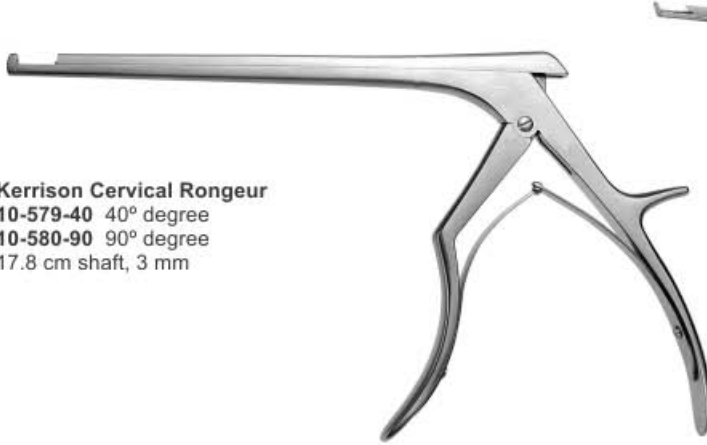


Ferris-Smith Intervertebral Disc Rongeurs

- 18cm Up
 10-571-01 2 x 10mm
 10-572-02 3 x 10mm
 10-573-03 4 x 10mm
 10-574-04 6 x 10mm

- 18cm Down
 10-575-01 2 x 10mm
 10-576-02 3 x 10mm
 10-577-03 4 x 10mm
 10-578-04 6 x 10mm

Kerrison Cervical Rongeur
10-579-40 40° degree
10-580-90 90° degree
17.8 cm shaft, 3 mm



Schlesinger Cervical Rongeur
10-581-15
thin tips, 15 cm shaft, up-bite, 3 mm



**Bayonet Micro Kerrison
Laminectomy Rongeurs**

40° Up, 150 mm Working Length 20.5cm

- 10-589-01 1mm
- 10-590-02 2mm
- 10-591-03 3mm
- 10-592-04 4mm
- 10-593-05 5mm
- 10-594-06 6mm

90° Up, 150 mm Working Length 20.5cm

- 10-595-01 1mm
- 10-596-02 2mm
- 10-597-03 3mm
- 10-598-04 4mm
- 10-599-05 5mm
- 10-600-06 6mm

**Bayonet Spurling Kerrison
Laminectomy Rongeurs**

40° Up, 150 mm Working Length 20.5cm

- 10-601-01 1mm
- 10-602-02 2mm
- 10-603-03 3mm
- 10-604-04 4mm
- 10-605-05 5mm
- 10-606-06 6mm

90° Up, 150 mm Working Length 20.5cm

- 10-607-01 1mm
- 10-608-02 2mm
- 10-609-03 3mm
- 10-610-04 4mm
- 10-611-05 5mm
- 10-612-06 6mm



**Foramenotomy Kerrison
Laminectomy Rongeurs, Curved**

- 10-582-01 UP, 9mm Bite opening, 20.5cm 2mm
- 10-583-02 UP, 9mm Bite opening, 20.5cm 3mm
- 10-584-03 UP, 9mm Bite opening, 20.5cm 4mm
- 10-585-04 UP, 9mm Bite opening, 20.5cm 5mm
- 10-586-05 UP, 9mm Bite opening, 20.5cm 6mm
- 10-587-15 Left, 9mm Bite opening, 20.5cm 6mm
- 10-588-25 Right, 9mm Bite opening, 20.5cm 6mm



Micro Kerrison Laminectomy Rongeurs
UPWARD Small Handle

40° UP
9mm bite opening, 18cm
10-613-01 1mm
10-614-02 2mm
10-615-03 3mm
10-616-04 4mm
10-617-05 5mm
10-618-06 6mm

40° UP
9mm bite opening, 20cm
10-619-01 1mm
10-620-02 2mm
10-621-03 3mm
10-622-04 4mm
10-623-05 5mm
10-624-06 6mm

40° UP
9mm bite opening, 23cm
10-625-01 1mm
10-626-02 2mm
10-627-03 3mm
10-628-04 4mm
10-629-05 5mm
10-630-06 6mm

40° UP
9mm bite opening, 25cm
10-631-01 2mm
10-632-02 3mm
10-633-03 4mm
10-634-04 5mm
10-635-05 6mm

40° UP
9mm bite opening, 28cm
10-636-01 2mm
10-637-02 3mm
10-638-03 4mm
10-639-04 5mm
10-640-05 6mm

40° UP
9mm bite opening, 30cm
10-641-01 2mm
10-642-02 3mm
10-643-03 4mm
10-644-04 5mm
10-645-05 6mm

40° Down
9mm bite opening, 18cm
10-646-01 1mm
10-647-02 2mm
10-648-03 3mm
10-649-04 4mm
10-650-05 5mm
10-651-06 6mm

40° Down
9mm bite opening, 20cm
10-652-01 1mm
10-653-02 2mm
10-654-03 3mm
10-655-04 4mm
10-656-05 5mm
10-657-06 6mm

40° Down
9mm bite opening, 23cm
10-658-01 1mm
10-659-02 2mm
10-660-03 3mm
10-661-04 4mm
10-662-05 5mm
10-663-06 6mm



Micro Kerrison Laminectomy Rongeurs
Downward Cutting Small Handle

40° Down
9mm bite opening, 25cm
10-664-01 2mm
10-665-02 3mm
10-666-03 4mm
10-667-04 5mm
10-668-05 6mm

40° Down
9mm bite opening, 28cm
10-669-01 2mm
10-670-02 3mm
10-671-03 4mm
10-672-04 5mm
10-673-05 6mm

40° Down
9mm bite opening, 30cm
10-674-01 2mm
10-675-02 3mm
10-676-03 4mm
10-677-04 5mm
10-678-05 6mm



90° UP
9mm bite opening, 18cm
10-679-01 1mm
10-680-02 2mm
10-681-03 3mm
10-682-04 4mm
10-683-05 5mm
10-684-06 6mm

90° UP
9mm bite opening, 20cm
10-685-01 1mm
10-686-02 2mm
10-687-03 3mm
10-688-04 4mm
10-689-05 5mm
10-690-06 6mm

90° UP
9mm bite opening, 23cm
10-691-01 1mm
10-692-02 2mm
10-693-03 3mm
10-694-04 4mm
10-695-05 5mm
10-696-06 6mm



Micro Kerrison Laminectomy Rongeurs
Upward Cutting Small Handle

90° UP
9mm bite opening, 25cm
10-697-01 2mm
10-698-02 3mm
10-699-03 4mm
10-700-04 5mm
10-701-05 6mm

90° UP
9mm bite opening, 28cm
10-702-01 2mm
10-703-02 3mm
10-704-03 4mm
10-705-04 5mm
10-706-05 6mm

90° UP
9mm bite opening, 30cm
10-707-01 2mm
10-708-02 3mm
10-709-03 4mm
10-710-04 5mm
10-711-05 6mm

90° Down
9mm bite opening, 18cm
10-712-01 1mm
10-713-02 2mm
10-714-03 3mm
10-715-04 4mm
10-716-05 5mm
10-717-06 6mm

90° Down
9mm bite opening, 20cm
10-718-01 1mm
10-719-02 2mm
10-720-03 3mm
10-721-04 4mm
10-722-05 5mm
10-723-06 6mm

90° Down
9mm bite opening, 23cm
10-724-01 1mm
10-725-02 2mm
10-726-03 3mm
10-727-04 4mm
10-728-05 5mm
10-729-06 6mm



Micro Kerrison Laminectomy Rongeurs
Downward Cutting Small Handle

90° Down
9mm bite opening, 25cm
10-730-01 2mm
10-731-02 3mm
10-732-03 4mm
10-733-04 5mm
10-734-05 6mm

90° Down
9mm bite opening, 28cm
10-735-01 2mm
10-736-02 3mm
10-737-03 4mm
10-738-04 5mm
10-739-05 6mm

90° Down
9mm bite opening, 30cm
10-740-01 2mm
10-741-02 3mm
10-742-03 4mm
10-743-04 5mm
10-744-05 6mm

40° UP Cutting, 15mm Bite Opening, 18cm
10-745-01 2.0 x 2.0mm **10-752-01**
10-746-02 2.5 x 2.5mm **10-753-02**
10-747-03 2.0 x 3.0mm **10-754-03**
10-748-04 3.0 x 4.0mm **10-755-04**
10-749-05 4.0 x 5.0mm **10-756-05**
10-750-06 5.0 x 5.0mm **10-757-06**
10-751-07 6.0 x 5.0mm **10-758-07**

40° UP Cutting, 15mm Bite Opening, 20cm
10-759-01 2.0 x 2.0mm **10-766-01**
10-760-02 2.5 x 2.5mm **10-767-02**
10-761-03 2.0 x 3.0mm **10-768-03**
10-762-04 3.0 x 4.0mm **10-769-04**
10-763-05 4.0 x 5.0mm **10-770-05**
10-764-06 5.0 x 5.0mm **10-771-06**
10-765-07 6.0 x 5.0mm **10-772-07**

40° UP Cutting, 15mm Bite Opening, 23cm
10-773-01 2.0 x 2.0mm **10-780-01**
10-774-02 2.5 x 2.5mm **10-781-02**
10-775-03 2.0 x 3.0mm **10-782-03**
10-776-04 3.0 x 4.0mm **10-783-04**
10-777-05 4.0 x 5.0mm **10-784-05**
10-778-06 5.0 x 5.0mm **10-785-06**
10-779-07 6.0 x 5.0mm **10-786-07**

40° UP Cutting, 15mm Bite Opening, 25cm
10-787-01 2.0 x 3.0mm **10-792-01**
10-788-02 3.0 x 4.0mm **10-793-02**
10-789-03 4.0 x 5.0mm **10-794-03**
10-790-04 5.0 x 5.0mm **10-795-04**
10-791-05 6.0 x 5.0mm **10-796-05**

40° UP Cutting, 15mm Bite Opening, 28cm
10-797-01 2.0 x 3.0mm **10-802-01**
10-798-02 3.0 x 4.0mm **10-803-02**
10-799-03 4.0 x 5.0mm **10-804-03**
10-800-04 5.0 x 5.0mm **10-805-04**
10-801-05 6.0 x 5.0mm **10-806-05**

40° UP Cutting, 15mm Bite Opening, 30cm
10-807-01 2.0 x 3.0mm **10-812-01**
10-808-02 3.0 x 4.0mm **10-813-02**
10-809-03 4.0 x 5.0mm **10-814-03**
10-810-04 5.0 x 5.0mm **10-815-04**
10-811-05 6.0 x 5.0mm **10-816-05**



kerrison Laminectomy Rongeurs



Ferris-smith Kerrison Laminectomy Rongeurs

40° Down Cutting, 15mm Bite Opening, 18cm
10-817-01 2.0 x 2.0mm **10-824-01**
10-818-02 2.5 x 2.5mm **10-825-02**
10-819-03 2.0 x 3.0mm **10-826-03**
10-820-04 3.0 x 4.0mm **10-827-04**
10-821-05 4.0 x 5.0mm **10-828-05**
10-822-06 5.0 x 5.0mm **10-829-06**
10-823-07 6.0 x 5.0mm **10-830-07**

40° Down Cutting, 15mm Bite Opening, 20cm
10-831-01 2.0 x 2.0mm **10-838-01**
10-832-02 2.5 x 2.5mm **10-839-02**
10-833-03 2.0 x 3.0mm **10-840-03**
10-834-04 3.0 x 4.0mm **10-841-04**
10-835-05 4.0 x 5.0mm **10-842-05**
10-836-06 5.0 x 5.0mm **10-843-06**
10-837-07 6.0 x 5.0mm **10-844-07**

40° Down Cutting, 15mm Bite Opening, 23cm
10-845-01 2.0 x 2.0mm **10-852-01**
10-846-02 2.5 x 2.5mm **10-853-02**
10-847-03 2.0 x 3.0mm **10-854-03**
10-848-04 3.0 x 4.0mm **10-855-04**
10-849-05 4.0 x 5.0mm **10-856-05**
10-850-06 5.0 x 5.0mm **10-857-06**
10-851-07 6.0 x 5.0mm **10-858-07**

40° Down Cutting, 15mm Bite Opening, 25cm
10-859-01 2.0 x 3.0mm **10-864-01**
10-860-02 3.0 x 4.0mm **10-865-02**
10-861-03 4.0 x 5.0mm **10-866-03**
10-862-04 5.0 x 5.0mm **10-867-04**
10-863-05 6.0 x 5.0mm **10-868-05**

40° Down Cutting, 15mm Bite Opening, 28cm
10-869-01 2.0 x 3.0mm **10-874-01**
10-870-02 3.0 x 4.0mm **10-875-02**
10-871-03 4.0 x 5.0mm **10-876-03**
10-872-04 5.0 x 5.0mm **10-877-04**
10-873-05 6.0 x 5.0mm **10-878-05**

40° Down Cutting, 15mm Bite Opening, 30cm
10-879-01 2.0 x 3.0mm **10-884-01**
10-880-02 3.0 x 4.0mm **10-885-02**
10-881-03 4.0 x 5.0mm **10-886-03**
10-882-04 5.0 x 5.0mm **10-887-04**
10-883-05 6.0 x 5.0mm **10-888-05**



kerrison Laminectomy Rongeurs



Ferris-smith Kerrison Laminectomy Rongeurs

90° UP Cutting, 15mm Bite Opening, 18cm
10-889-01 2.0 x 2.0mm **10-896-01**
10-890-02 2.5 x 2.5mm **10-897-02**
10-891-03 2.0 x 3.0mm **10-898-03**
10-892-04 3.0 x 4.0mm **10-899-04**
10-893-05 4.0 x 5.0mm **10-900-05**
10-894-06 5.0 x 5.0mm **10-901-06**
10-895-07 6.0 x 5.0mm **10-902-07**

90° UP Cutting, 15mm Bite Opening, 20cm
10-903-01 2.0 x 2.0mm **10-910-01**
10-904-02 2.5 x 2.5mm **10-911-02**
10-905-03 2.0 x 3.0mm **10-912-03**
10-906-04 3.0 x 4.0mm **10-913-04**
10-907-05 4.0 x 5.0mm **10-914-06**
10-908-06 5.0 x 5.0mm **10-915-07**
10-909-07 6.0 x 5.0mm **10-916-08**

90° UP Cutting, 15mm Bite Opening, 23cm
10-917-01 2.0 x 2.0mm **10-924-01**
10-918-02 2.5 x 2.5mm **10-925-02**
10-919-03 2.0 x 3.0mm **10-926-03**
10-920-04 3.0 x 4.0mm **10-927-04**
10-921-05 4.0 x 5.0mm **10-928-05**
10-922-06 5.0 x 5.0mm **10-929-06**
10-923-07 6.0 x 5.0mm **10-930-07**

90° Down Cutting, 15mm Bite Opening, 18cm
10-961-01 2.0 x 2.0mm **10-968-01**
10-962-02 2.5 x 2.5mm **10-969-02**
10-963-03 2.0 x 3.0mm **10-970-03**
10-964-04 3.0 x 4.0mm **10-971-04**
10-965-05 4.0 x 5.0mm **10-972-05**
10-966-06 5.0 x 5.0mm **10-973-06**
10-967-07 6.0 x 5.0mm **10-974-07**

90° Down Cutting, 15mm Bite Opening, 20cm
10-975-01 2.0 x 2.0mm **10-982-01**
10-976-02 2.5 x 2.5mm **10-983-02**
10-977-03 2.0 x 3.0mm **10-984-03**
10-978-04 3.0 x 4.0mm **10-985-04**
10-979-05 4.0 x 5.0mm **10-986-05**
10-980-06 5.0 x 5.0mm **10-987-06**
10-981-07 6.0 x 5.0mm **10-988-07**

90° Down Cutting, 15mm Bite Opening, 23cm
10-989-01 2.0 x 2.0mm **10-996-01**
10-990-02 2.5 x 2.5mm **10-997-02**
10-991-03 2.0 x 3.0mm **10-998-03**
10-992-04 3.0 x 4.0mm **10-999-04**
10-993-05 4.0 x 5.0mm **10-1000-05**
10-994-06 5.0 x 5.0mm **10-1001-06**
10-995-07 6.0 x 5.0mm **10-1002-07**

90° UP Cutting, 15mm Bite Opening, 25cm
10-931-01 2.0 x 3.0mm **10-936-01**
10-932-02 3.0 x 4.0mm **10-937-02**
10-933-03 4.0 x 5.0mm **10-938-03**
10-934-04 5.0 x 5.0mm **10-939-04**
10-935-05 6.0 x 5.0mm **10-940-05**

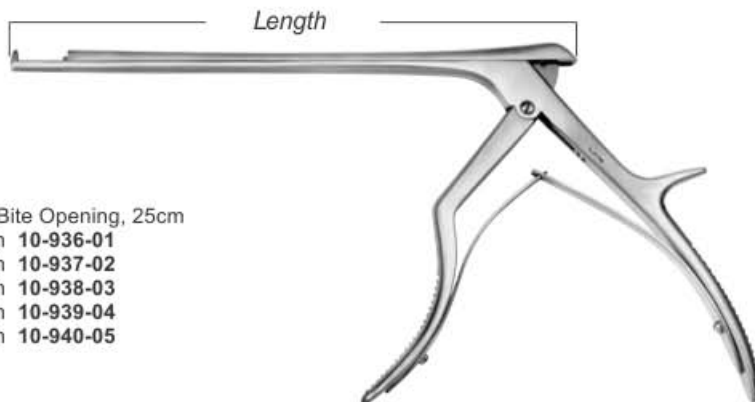
90° UP Cutting, 15mm Bite Opening, 28cm
10-941-01 2.0 x 3.0mm **10-946-01**
10-942-02 3.0 x 4.0mm **10-947-02**
10-943-03 4.0 x 5.0mm **10-948-03**
10-944-04 5.0 x 5.0mm **10-949-04**
10-945-05 6.0 x 5.0mm **10-950-05**

90° UP Cutting, 15mm Bite Opening, 30cm
10-951-01 2.0 x 3.0mm **10-956-01**
10-952-02 3.0 x 4.0mm **10-957-02**
10-953-03 4.0 x 5.0mm **10-958-03**
10-954-04 5.0 x 5.0mm **10-959-04**
10-955-05 6.0 x 5.0mm **10-960-05**

90° Down Cutting, 15mm Bite Opening, 25cm
10-1003-01 2.0 x 3.0mm **10-1008-01**
10-1004-02 3.0 x 4.0mm **10-1009-02**
10-1005-03 4.0 x 5.0mm **10-1010-03**
10-1006-04 5.0 x 5.0mm **10-1011-04**
10-1007-05 6.0 x 5.0mm **10-1012-05**

90° Down Cutting, 15mm Bite Opening, 28cm
10-1013-01 2.0 x 3.0mm **10-1018-01**
10-1014-02 3.0 x 4.0mm **10-1019-02**
10-1015-03 4.0 x 5.0mm **10-1020-03**
10-1016-04 5.0 x 5.0mm **10-1021-04**
10-1017-05 6.0 x 5.0mm **10-1022-05**

90° Down Cutting, 15mm Bite Opening, 30cm
10-1023-01 2.0 x 3.0mm **10-1028-01**
10-1024-02 3.0 x 4.0mm **10-1029-02**
10-1025-03 4.0 x 5.0mm **10-1030-03**
10-1026-04 5.0 x 5.0mm **10-1031-04**
10-1027-05 6.0 x 5.0mm **10-1032-05**



kerrison Laminectomy Rongeurs



Ferris-smith Kerrison Laminectomy Rongeurs



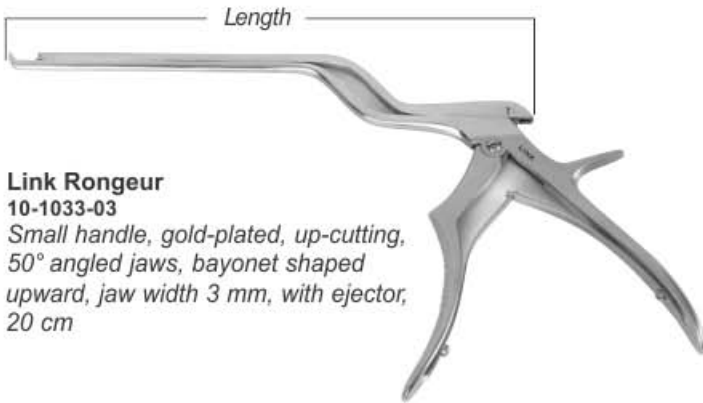
kerrison Laminectomy Rongeurs



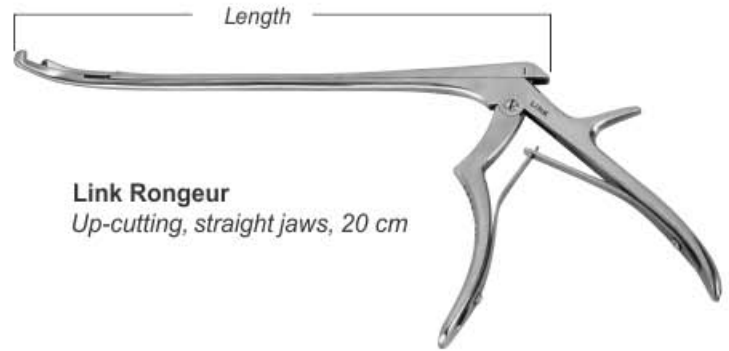
Ferris-smith Kerrison Laminectomy Rongeurs

LAMINECTOMY RONGEURS






Laminektomie-Rongeur | Pinzas para laminectomía
 Pinces à Laminectomie | Rongeurs di laminectomia



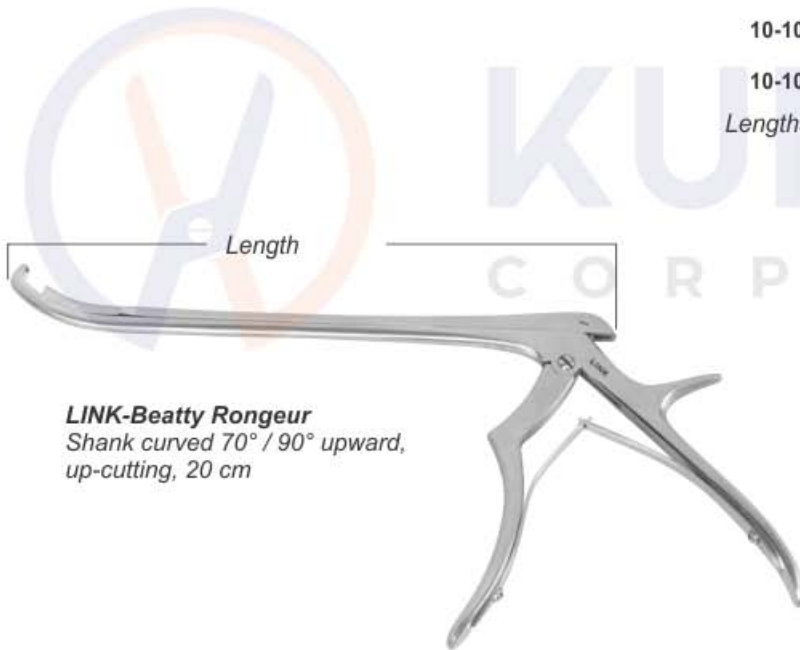
Link Rongeur
 10-1033-03
 Small handle, gold-plated, up-cutting,
 50° angled jaws, bayonet shaped
 upward, jaw width 3 mm, with ejector,
 20 cm



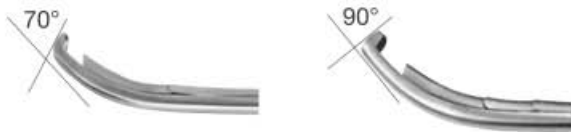
Link Rongeur
 Up-cutting, straight jaws, 20 cm





| Curved to left | Curved to right | Jaw size (width x height) |
|--|---|--|
|  |  |  3,0 x 4,0 mm |
| 10-1034 -03 | 10-1037-03 |  4,0 x 4,0 mm |
| 10-1035-04 | 10-1038-04 |  5,0 x 4,0 mm |
| 10-1036-05 | 10-1039-05 | |

Lengths are measured with closed jaws

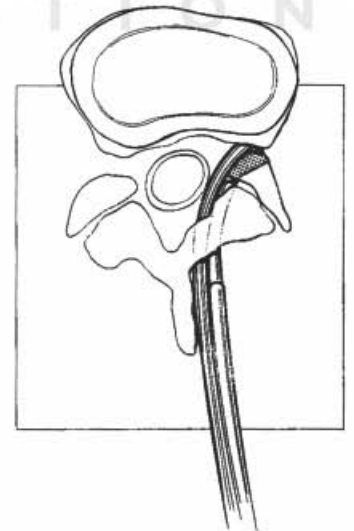


LINK-Beatty Rongeur
 Shank curved 70° / 90° upward,
 up-cutting, 20 cm

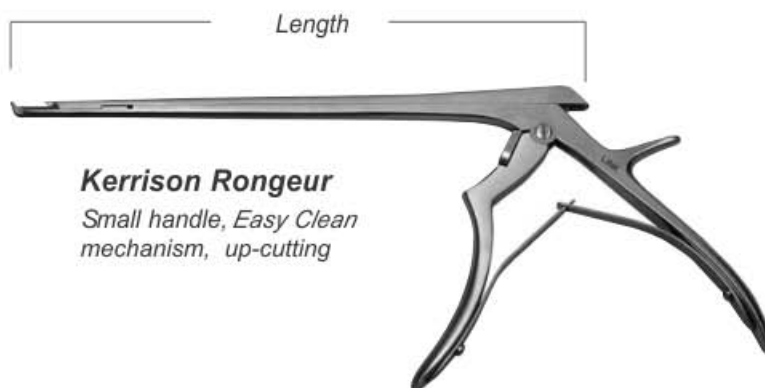


| | | Jaw size (width x height) |
|------------|------------|--|
| 10-1040-02 | 10-1044-02 |  2,0 x 3,0 mm |
| 10-1041-03 | 10-1045-03 |  3,0 x 4,0 mm |
| 10-1042-04 | 10-1046-04 |  4,0 x 4,0 mm |
| 10-1043-05 | 10-1047-05 |  5,0 x 4,0 mm |

Lengths are measured with closed jaws



The angled LINK-Beatty Rongeur allows to perform foraminotomies while preserving dorsal processes and facet joints.



| 50° angled jaws thin footplate | | | 50° angled jaws | | |
|---|-----------|---------|--|-----------|---------|
|  | Jaw width | Length* |  | Jaw width | Length* |
| 10-1048-02 | 2 mm | 18 cm | 10-1060-02 | 2 mm | 18 cm |
| 10-1049-03 | 3 mm | 18 cm | 10-1061-03 | 3 mm | 18 cm |
| 10-1050-04 | 4 mm | 18 cm | 10-1062-04 | 4 mm | 18 cm |
| 10-1051-05 | 5 mm | 18 cm | 10-1063-05 | 5 mm | 18 cm |
| 10-1052-02 | 2 mm | 20 cm | 10-1064-06 | 6 mm | 18 cm |
| 10-1053-03 | 3 mm | 20 cm | 10-1065-02 | 2 mm | 20 cm |
| 10-1054-04 | 4 mm | 20 cm | 10-1066-03 | 3 mm | 20 cm |
| 10-1055-05 | 5 mm | 20 cm | 10-1067-04 | 4 mm | 20 cm |
| 10-1056-02 | 2 mm | 23 cm | 10-1068-05 | 5 mm | 20 cm |
| 10-1057-03 | 3 mm | 23 cm | 10-1069-06 | 6 mm | 20 cm |
| 10-1058-04 | 4 mm | 23 cm | 10-1070-02 | 2 mm | 23 cm |
| 10-1059-05 | 5 mm | 23 cm | 10-1071-03 | 3 mm | 23 cm |
| | | | 10-1072-04 | 4 mm | 23 cm |
| | | | 10-1073-05 | 5 mm | 23 cm |
| | | | 10-1074-06 | 6 mm | 23 cm |

Lengths are measured with closed jaws



The EasyClean mechanism makes cleaning of the Rongeurs an easy matter

To open the EasyClean mechanism pull the handle, turn the release and lift up the pusher.

The coloured release help to recognize more easily the individual widths of the jaw.



40° UPWARD

Black Line[®] Kerrison Laminectomy Punch
40° UPWARD Jaw angle
with special titanium coating on surface
Bone ejector

40° UPWARD JAW

| 18cm Shaft | 20cm Shaft | 23cm Shaft | Bite Size |
|------------|------------|------------|-----------|
| 10-1075-01 | 10-1081-01 | 10-1087-01 | 1mm |
| 10-1076-02 | 10-1082-02 | 10-1088-02 | 2mm |
| 10-1077-03 | 10-1083-03 | 10-1089-03 | 3mm |
| 10-1078-04 | 10-1084-04 | 10-1090-04 | 4mm |
| 10-1079-05 | 10-1085-05 | 10-1091-05 | 5mm |
| 10-1080-06 | 10-1086-06 | 10-1092-06 | 6mm |



Reduced footplate



40° UPWARD Thin Footplate Kerrison Laminectomy Punch
40° UPWARD Jaw angle
Thin Footplate For cervical surgery

40° UPWARD JAW

| 18cm Shaft | 20cm Shaft | Bite Size |
|------------|------------|-----------|
| 10-1093-01 | 10-1098-01 | 2mm |
| 10-1094-02 | 10-1099-02 | 3mm |
| 10-1095-03 | 10-1100-03 | 4mm |
| 10-1096-04 | 10-1101-04 | 5mm |
| 10-1097-05 | 10-1102-05 | 6mm |



A reduced footplate thickness useful for a restricted operating area

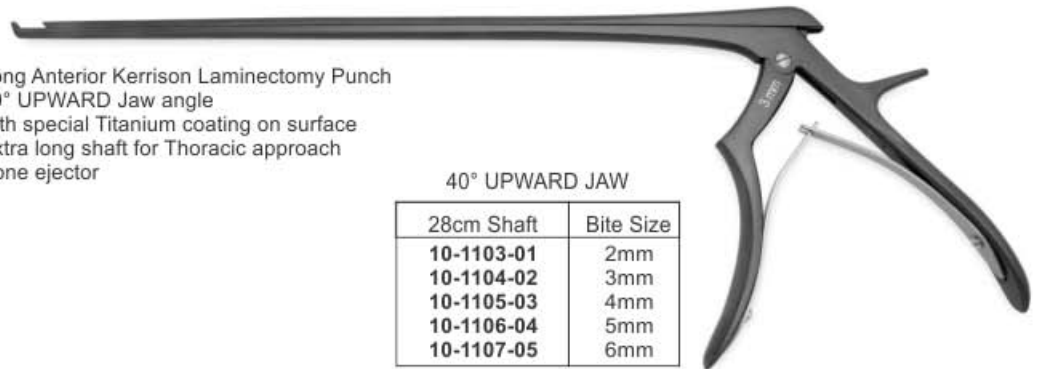
40° UPWARD



Long Anterior Kerrison Laminectomy Punch
40° UPWARD Jaw angle
with special Titanium coating on surface
Extra long shaft for Thoracic approach
Bone ejector

40° UPWARD JAW

| 28cm Shaft | Bite Size |
|------------|-----------|
| 10-1103-01 | 2mm |
| 10-1104-02 | 3mm |
| 10-1105-03 | 4mm |
| 10-1106-04 | 5mm |
| 10-1107-05 | 6mm |

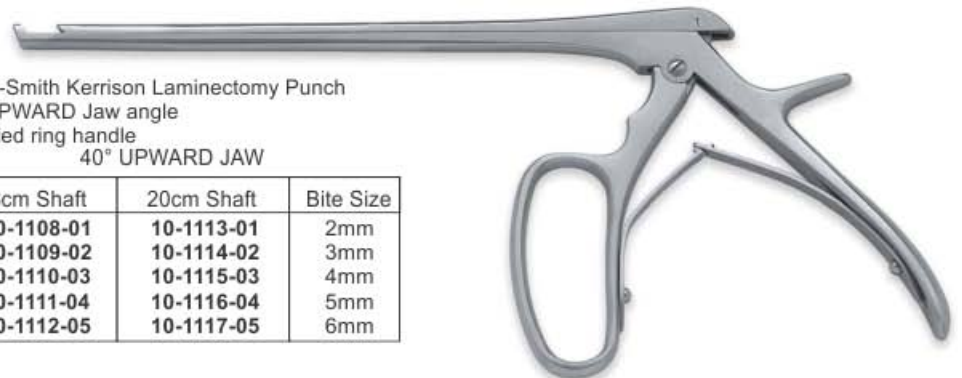


40° UPWARD



Ferris-Smith Kerrison Laminectomy Punch
40° UPWARD Jaw angle
Modified ring handle
40° UPWARD JAW

| 18cm Shaft | 20cm Shaft | Bite Size |
|------------|------------|-----------|
| 10-1108-01 | 10-1113-01 | 2mm |
| 10-1109-02 | 10-1114-02 | 3mm |
| 10-1110-03 | 10-1115-03 | 4mm |
| 10-1111-04 | 10-1116-04 | 5mm |
| 10-1112-05 | 10-1117-05 | 6mm |



MICRO DISCECTOMY RETRACTOR

Mikro-Dissektomie-Retraktor | Retractor de micro discectomia
 Écarteur de micro discectomie | Divaricatore per micro discectomia

Jointed Arms



Retractor Frame
 Jointed arms
 Maximum spread 70mm
10-1118-00

Retractor Frame
 Rigid arms
10-1119-00

(Frame available with extra long rack 140mm spread)



Wide Muscle
 Blade - 6 teeth
 27mm width

| | |
|-------------------|------------|
| 10-1120-03 | 3cm Depth |
| 10-1121-04 | 4cm Depth |
| 10-1122-05 | 5cm Depth |
| 10-1123-06 | 6cm Depth |
| 10-1124-07 | 7cm Depth |
| 10-1125-08 | 8cm Depth |
| 10-1126-09 | 9cm Depth |
| 10-1127-10 | 10cm Depth |
| 10-1128-12 | 12cm Depth |

Extra Deep



Hook Blades

| | |
|-------------------|------------|
| 10-1129-02 | 2cm Depth |
| 10-1130-03 | 3cm Depth |
| 10-1131-04 | 4cm Depth |
| 10-1132-05 | 5cm Depth |
| 10-1133-06 | 6cm Depth |
| 10-1134-07 | 7cm Depth |
| 10-1135-08 | 8cm Depth |
| 10-1136-09 | 9cm Depth |
| 10-1137-10 | 10cm Depth |

Extra Deep



Narrow Muscle
 Blade - 4 teeth
 20mm width

| | |
|-------------------|------------|
| 10-1138-03 | 3cm Depth |
| 10-1139-04 | 4cm Depth |
| 10-1140-05 | 5cm Depth |
| 10-1141-06 | 6cm Depth |
| 10-1142-07 | 7cm Depth |
| 10-1143-08 | 8cm Depth |
| 10-1144-09 | 9cm Depth |
| 10-1145-10 | 10cm Depth |
| 10-1146-12 | 12cm Depth |

Extra Deep



Toothed Blades

| | |
|-------------------|------------|
| 10-1147-02 | 2cm Depth |
| 10-1148-03 | 3cm Depth |
| 10-1149-04 | 4cm Depth |
| 10-1150-05 | 5cm Depth |
| 10-1151-06 | 6cm Depth |
| 10-1152-07 | 7cm Depth |
| 10-1153-08 | 8cm Depth |
| 10-1154-09 | 9cm Depth |
| 10-1155-10 | 10cm Depth |

Extra Deep



Thin Muscle
 Blade - 2 teeth

17mm width

| | |
|-------------------|-----------|
| 10-1156-03 | 3cm Depth |
| 10-1157-04 | 4cm Depth |
| 10-1158-05 | 5cm Depth |
| 10-1159-06 | 6cm Depth |
| 10-1160-07 | 7cm Depth |
| 10-1161-08 | 8cm Depth |

MICRO LUMBAR DISCECTOMY RETRACTOR

Mikro-Retraktor für lumbale Diskektomie

Retractor de discectomía microlumbar

Micro écarteur de discectomie lombaire

Micro divaricatore per discectomia lombare



CASPAR MICRO DISCECTOMY RETRACTOR

This Retractor Set allows a micro surgery approach to Lumbar Disc
 Specula have a black surface finish to prevent glare
 Fenestrated Blades on the specula reduce the risk of movement
 During surgery

Complete Set
10-1162-00

Consisting of:

| Lateral Blades | Depth | Spatula | Depth |
|----------------|-------|------------|-------|
| 10-1163-40 | 40mm | 10-1170-40 | 40mm |
| 10-1164-45 | 45mm | 10-1171-45 | 45mm |
| 10-1165-50 | 50mm | 10-1172-50 | 50mm |
| 10-1166-55 | 55mm | 10-1173-55 | 55mm |
| 10-1167-60 | 60mm | 10-1174-60 | 60mm |
| 10-1168-65 | 65mm | 10-1175-65 | 65mm |
| 10-1169-70 | 70mm | 10-1176-70 | 70mm |



10-1177-01 Counter Retractor Frame

CASPAR MICRO LUMBAR DISCECTOMY RETRACTOR

Caspar Mikro-Retractor für lumbale Diskektomie
 Micro écarteur de discectomie lombaire Caspar

Retractor de discectomía lumbar Caspar Micro
 Divaricatore per discectomia lombare Caspar Micro

Lateral Blades



Blade Ejector Forceps
 10-1178-00



Specula Range



Caspar Micro Discectomy
 Retractor Frame
 10-1179-00

