

039



**Neurosurgery and Laminectomy**  
**Neurochirurgie und Laminektomie**  
**Neurocirugía y Laminectomía**  
**Neurochirurgie et Laminectomie**  
**Neurochirurgia e Laminectomia**



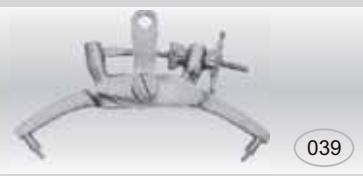
## Instruments for Cranial Opening

Instrumente zur Schädelöffnung

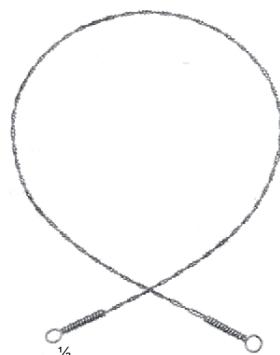
Instrumentos para apertura craneana

Instruments pour l'ouverture du crâne

Strumenti per l'apertura del cranio



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### OLIVECRONA(GIGLI)

39-110-25 25 cm, 10"

39-110-30 30 cm, 12"

39-110-40 40 cm, 16"

39-110-50 50 cm, 20"

39-110-60 60 cm, 24"

39-110-70 70 cm, 28"

#### Wire saws

Drahtsägen

Sierras de hilo

Fils-scies

Fili per sega



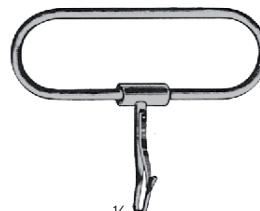
39-112-01



39-112-02



39-112-03



39-112-04

### GIGLI

39-112-01

39-112-04

#### Hook handles for wire saws

Handgriffe für Drahtsägen

Mango con gancho, para sierras de hilo

Poignées pour scies

Manico ad uncino per fili per sega



### DE MARTEL

39-114-33

33 cm, 13"

#### Conductor for wire saws

Einführungsinstrument für Drahtsägen

Conductor para sierras de hilo

Conducteur pour scies

Guida per fili per sega



### Cranial Rongeur Forceps

Schädelzangen

Pinzas saca-bocado craneal

Rongeurs crâniens

Pinze per ossa del cranio



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#### CONE

39-120-23

23 cm, 9"

Cranial punch rongeur for maximum of  
12 mm of bone

Schädelstanzzange bis 12 mm  
Schädelstärke

Pinza saca-bocados craneal  
para cráneo hasta 12 mm

Pince crâniene jusqu'à 12 mm  
épaisseur du crâne

Pinza per cranio, asta 12 mm



39-122-01



#### DAHLGREN

39-122-20

20 cm, 8"

Cranial rongeur with 2 hooks (39-122-01)

Schädelstanze mit 2 Haken (39-122-01)

Pinza saca-bocado craneal con  
2 ganchos (39-122-01)

Rongeur crâniens avec 2 crochets  
(39-122-01)

Pinza per cranio con 2 genci (39-122-01)



39-124-01



39-124-02



#### DE VILBISS

39-124-21

21 cm, 8 1/4"

Cranial rongeur with 1 hook each small  
(39-124-01) and large (39-124-02)

Schädelstanze mit je 1 Haken klein  
(39-124-01) und groß(39-124-02)

Pinza saca-bocado craneal con 1 gancho  
pequeño (39-124-01) y grande (39-124-02)

Rongeur crâniens avec 1 crochet petit  
(39-124-01) et grand (39-124-02)

Pinza per cranio con 1 gancio piccolo  
(39-124-01) e 1 grande (39-124-02)



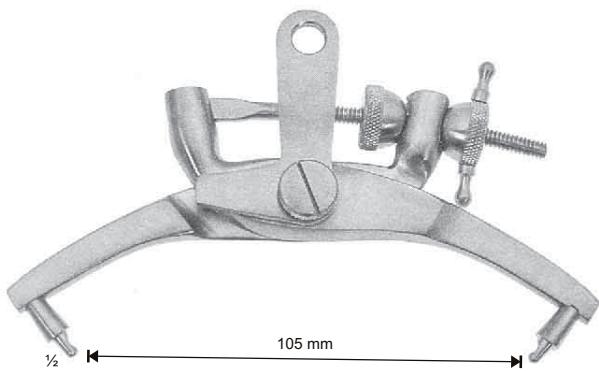
### Cervical Traction Tongs

Schädelhalter

Pinzas de tracción craneal

Pinces de traction crânienne

Pinze per trazione craniale



**CRUTCHFIELD  
39-130-10**

Cervical traction tongs, small size  
Schädelhalter, kleine Größe  
Pinza de tracción craneal, tamaño pequeño  
Etrier traction crânienne, petit modèle  
Pinza per trazione craniale, modello piccolo



**CRUTCHFIELD  
39-134-01**  
3,5 mm ø



**CRUTCHFIELD  
39-134-02**  
5 mm ø



**CRUTCHFIELD  
39-136-15**

Cervical traction tongs, medium size  
Schädelhalter, Mittlere Größe  
Pinza de tracción craneal, tamaño mediano  
Etrier traction crânienne, modèle moyen  
Pinza per trazione craniale, modello medio



**39-138-17**

Cervical traction tongs, for extension of the neck vertebrae,  
large size, pins adjustable hence no initial drilling

Schädelhalter für Extension der Halswirbel, großes Modell,  
Dorne verstellbar, deshalb Vorbohren nicht erforderlich

Pinza de tracción craneal para la extensión de las vértebras del cuello,  
tamaño grande, puntas ajustables, suprimiendo perforaciones iniciales

Etrier traction crânienne, pour l'extension des vertèbres cervicales, grand  
modèle, mandrins réglables supprimant la perforation initiale

Pinza per trazione craniale e l'estensione delle vertebre del collo,  
modello grande, punte regolabili al fine di evitare la perforazione iniziale



**Instruments for Brain suture**  
**Instrumente für Hirnnaht**  
**Instrumental para sutura cerebral**  
**Instruments à sutrue cérébrale**



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**RANEY**  
**39-140-16**  
16 cm, 6½"

Applying and removing forceps for  
scalp hemostasis clips

Anlege- und Abnehmezange für  
Kopfhautklammern

Pinza para aplicar y quitar clips hemo-  
státicas de cuero cabelludo

Pince pour poser et retirer les clips hémô-  
statiques du cuir chevelu

Pinza per applicare e togliere le agrafe  
emostatiche al cuoio capelluto



**MOD. KÖLN**  
**39-142-01**

Scalp hemostasis clips, in packages  
of 10 pieces

Kopfhautklammern, in Packungens  
zu 10 Stück

Pinza hemostática para cuero cabelludo,  
en paquetes de 10 piezas

Agrafes hémostatiques pour cuir  
chevelu en paquets de 10 pièces

Agrafes emostatici per cuoio capelluto,  
in confezioni da 10 pezzi



**RANEY**  
**39-142-02**

Scalp hemostasis clips, in packages  
of 12 pieces

Kopfhautklammern, in Packungens  
zu 12 Stück

Pinza hemostática para cuero cabelludo,  
en paquetes de 12 piezas

Agrafes hémostatiques pour cuir  
chevelu en paquets de 12 pièces

Agrafes emostatici per cuoio capelluto,  
in confezioni da 12 pezzi



**39-144-00**



**McKENZIE**  
**39-146-00**

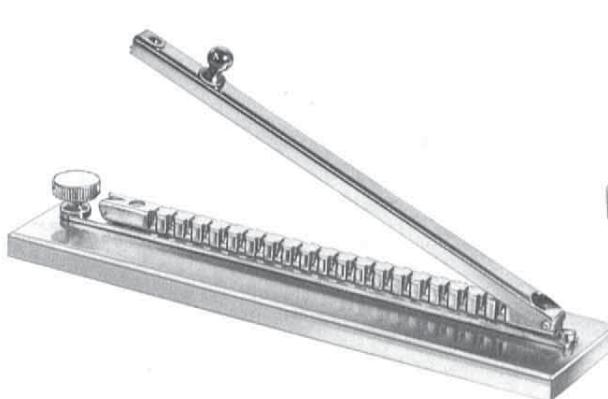
Silver wire in coils of 2,5 g.

Silberdraht zur Herstellung von  
Klammern, Ringen zu 2,5 gr.

Hilo de plata para producir  
grapas, en rollos de 2,5 g.

Fil d'argent pour fabriquer des  
agrafes par rouleaux de 2,5 g

Filo di argento per la costruzione  
di agrafe in rotoli di gr. 2,5



**39-150-01**  
148 x 40 x 6 mm (5¾ x 1½ x ¼")



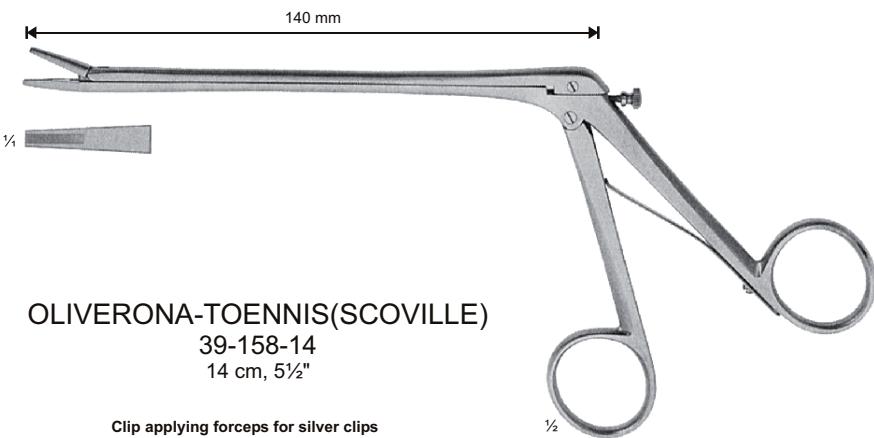
**McKENZIE**  
**39-150-02**  
190 x 48 x 13 mm (7½ x 2 x ½")



**Instruments for Brain suture**  
Instrumente für Hirnnaht  
Instrumental para sutura cerebral  
Instruments à suture cérébrale

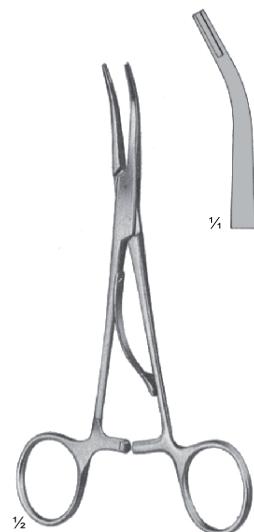


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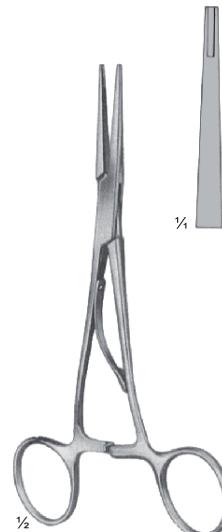
**OLIVERONA-TOENNIS(SCOVILLE)**  
39-158-14  
14 cm, 5½"

**Clip applying forceps for silver clips**  
Klammer-Anlegezange für Silberklammern  
Pinza para colocar las grapas de plata  
Pince pose clips  
Pinza metti agrafes per agrafes in argento



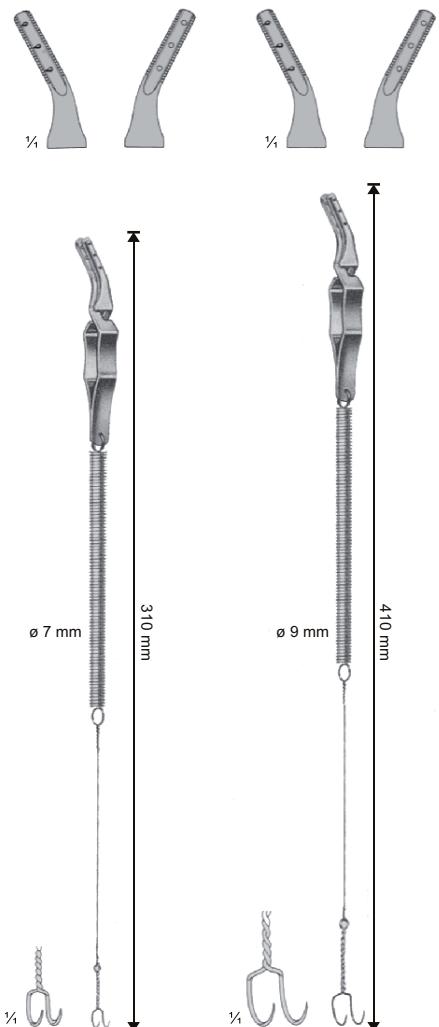
**McKENZIE**  
39-158-15 15 cm, 6"  
39-158-19 19 cm, 7½"

**Clip applying forceps for silver clips**  
Klammer-Anlegezange für Silberklammern  
Pinza para colocar las grapas de plata  
Pince pose clips  
Pinza metti agrafes per agrafes in argento



**McKENZIE**  
39-159-15 15 cm, 6"  
39-159-19 19 cm, 7½"

**Clip applying forceps for silver clips**  
Klammer-Anlegezange für Silberklammern  
Pinza para colocar las grapas de plata  
Pince pose clips  
Pinza metti agrafes per agrafes in argento



**YASARGIL**  
39-164-31  
31 cm, 12¼"

**YASARGIL**  
39-164-41  
41 cm, 16"



**Nerve Retractors, Knives**  
Nervhaken, Messer  
Separadores de nervios, Bisturíes  
Crochets à nerfs, Bistouris

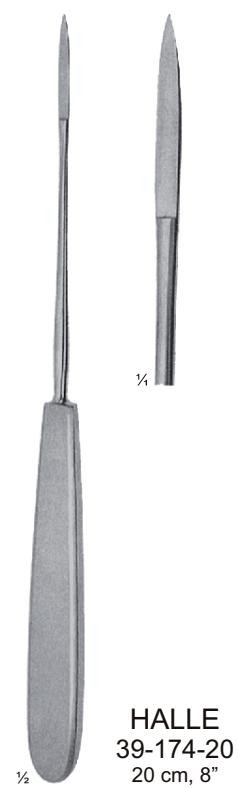


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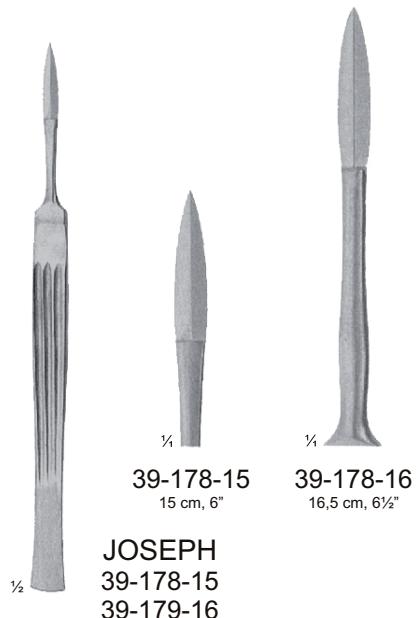


TÖNNIS  
39-170-13  
13 cm, 5"

39-170-19  
19 cm, 7½"



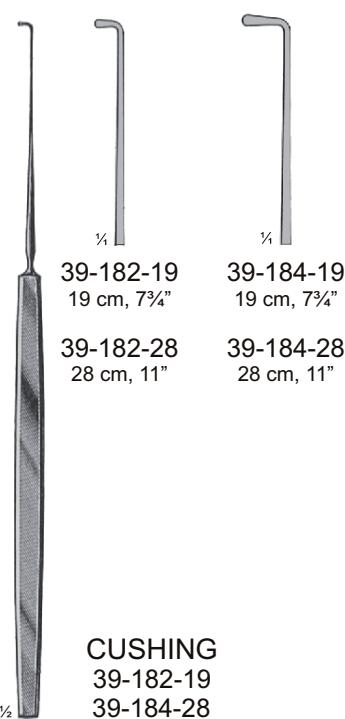
HALLE  
39-174-20  
20 cm, 8"



JOSEPH  
39-178-15  
39-179-16

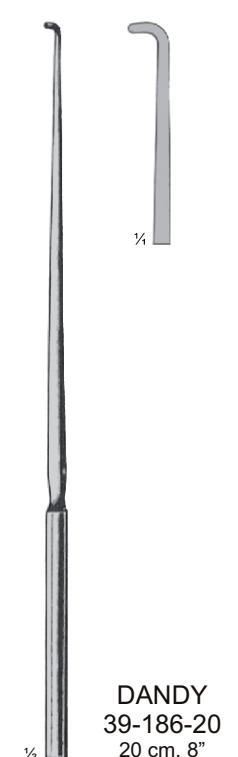


39-179-16  
16,5 cm, 6½"

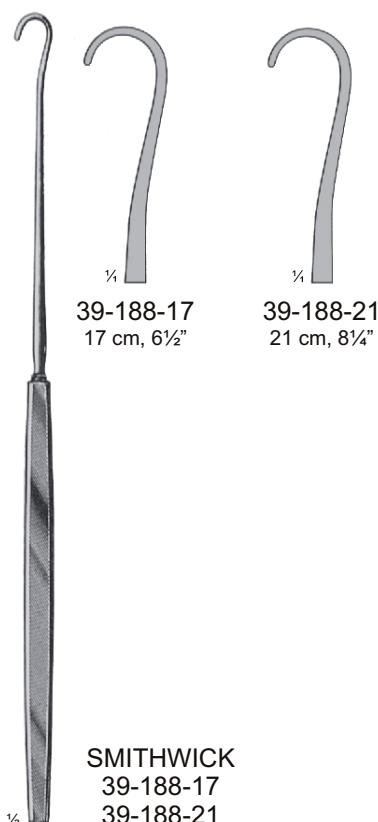


CUSHING  
39-182-19  
19 cm, 7¾"

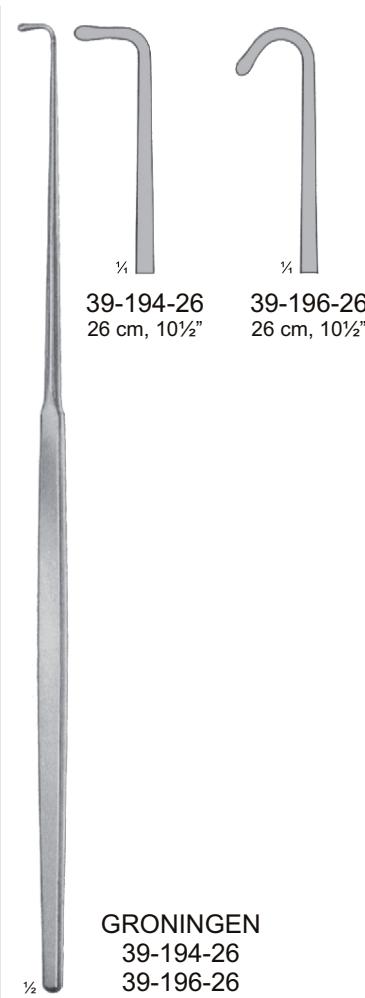
39-182-28  
28 cm, 11"



DANDY  
39-186-20  
20 cm, 8"



SMITHWICK  
39-188-17  
39-188-21



GRONINGEN  
39-194-26  
39-196-26



**Nerve Retractors, Knives**  
Nervhaken, Messer  
Separadores de nervios, Bistruíes  
Crochets à nerfs, Bistouris



039

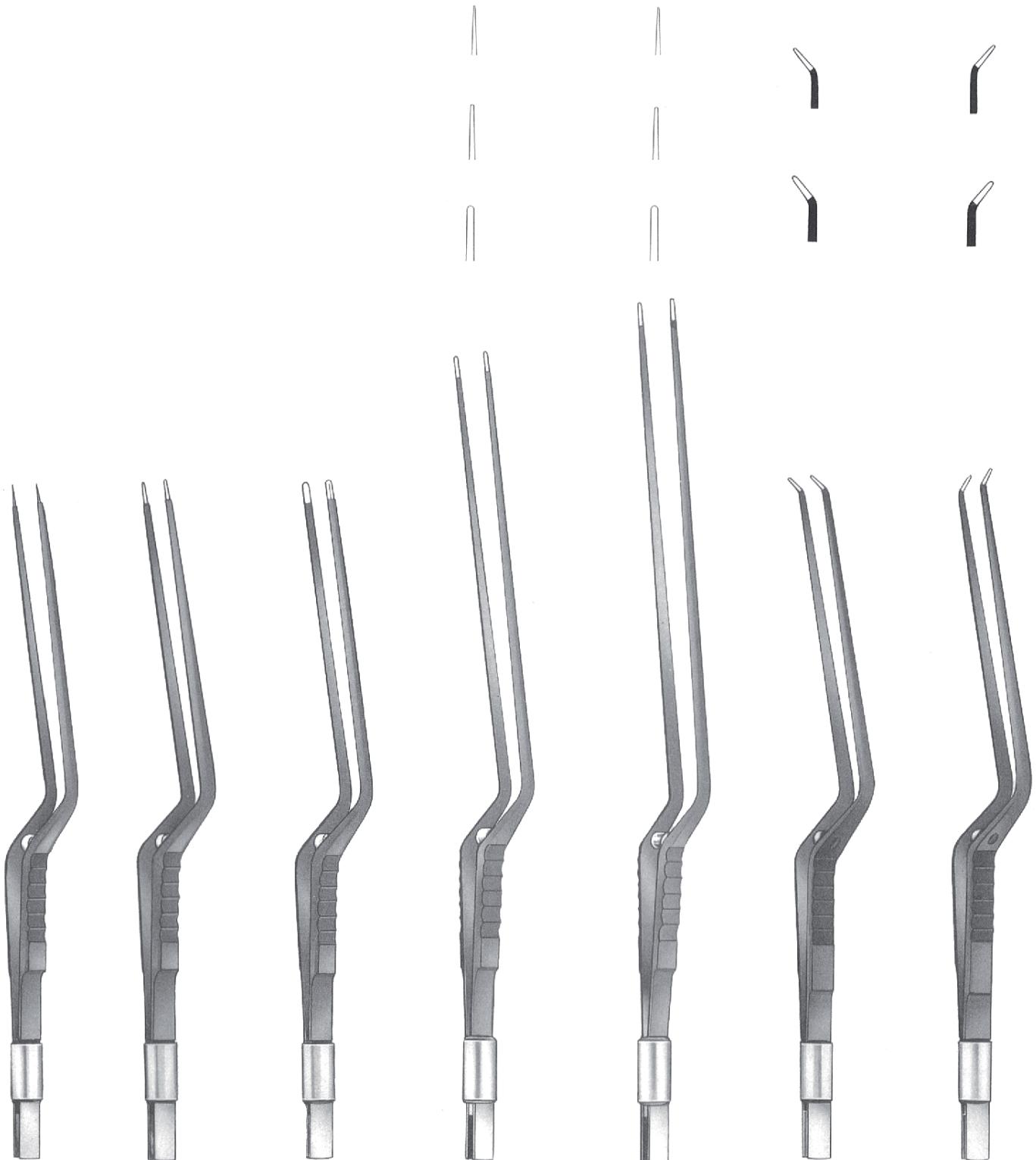




**Nerve Retractors, Knives**  
Nervhaken, Messer  
Separadores de nervios, Bistruíes  
Crochets à nerfs, Bistouris



039





**Nerve Retractors, Knives**  
Nervhaken, Messer  
Separadores de nervios, Bisturíes  
Crochets à nerfs, Bistouris



039



**CUSHING**  
39-242-14  
14 cm, 5½"



**FRAZIER**  
39-244-13  
39-244-18

39-244-13  
13 cm, 5"

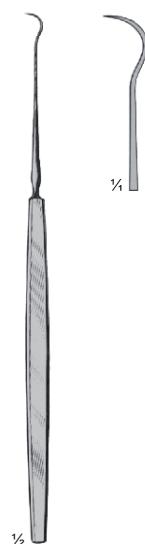
39-244-18  
18 cm, 7"



**GRAHAM**  
39-246-16  
16,5 cm, 6½"



**SACHS**  
39-248-18  
18,5 cm, 7¼"



**TOENNIS**  
39-250-15  
15 cm, 6"



**CUSHING**  
39-252-20  
20 cm, 8"



**ADSON**  
39-254-20  
20 cm, 8"



**Nerve- and vessel Hooks, Ligature Guides**  
Nerv- und Gefäßhähkchen, Fadenführer  
Gancho para nervios y vasos, Conductor de hilo  
Crochets à nerfs et à Vaisseaux, guide-fil

**Micro vessel Knives**  
Mikro-Gefäßmesser  
Micro-cuchillos para vasos  
Micro couteaux pour vaisseaux



039

39-260-19

FISCH  
39-260-19

39-262-01  
19 cm, 7½"

39-262-02  
19 cm, 7½"

39-262-03  
19 cm, 7½"

39-262-04  
19 cm, 7½"

KRAYENBÜHL

JACOBSON  
39-258-19  
19 cm, 7½"

KOOS  
39-261-01  
19 cm, 7½"

KOOS  
39-261-02  
19 cm, 7½"

KOOS  
39-261-03  
19 cm, 7½"

KRAUS  
39-263-19  
19 cm, 7½"

YASARGIL  
39-265-19  
19 cm, 7½"

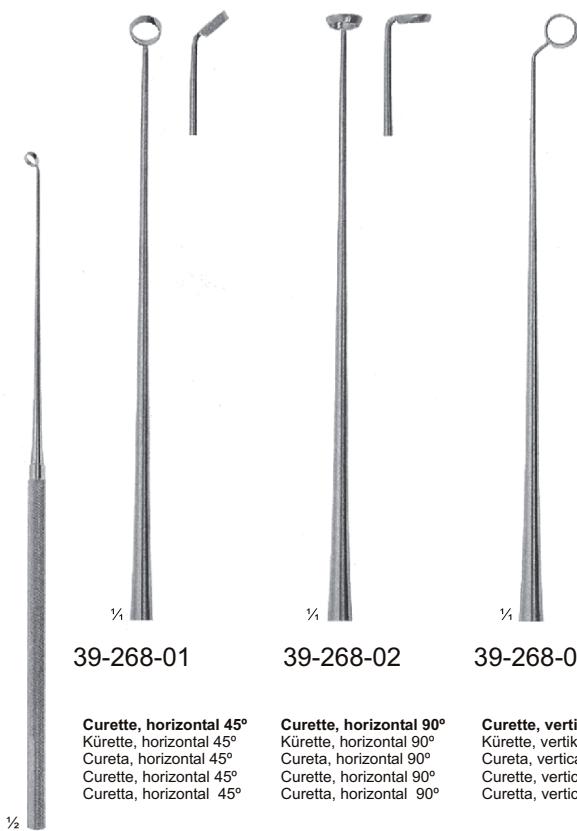


## Pituitary Instruments

Hypophysektomie-Instrumente  
Instrumentos para la hipofisectomía  
Instruments pour la hypophysectomie  
Strumenti per ipofisi



039



39-268-01

39-268-02

39-268-03

Curette, horizontal 45°  
Kürette, horizontal 45°  
Cureta, horizontal 45°  
Curette, horizontal 45°  
Curetta, horizontal 45°

Curette, horizontal 90°  
Kürette, horizontal 90°  
Cureta, horizontal 90°  
Curette, horizontal 90°  
Curetta, horizontal 90°

Curette, vertical 45°  
Kürette, vertikal 45°  
Cureta, vertical 45°  
Curette, verticale 45°  
Curetta, verticale 45°

1/2

39-269-01

39-269-02

Curette, horizontal 90°, malleable

Curette, horizontal 90°, malleable

Kürette, horizontal 90°, biegksam

Kürette, horizontal 90°, biegksam

Cureta horizontal 90°, maleable

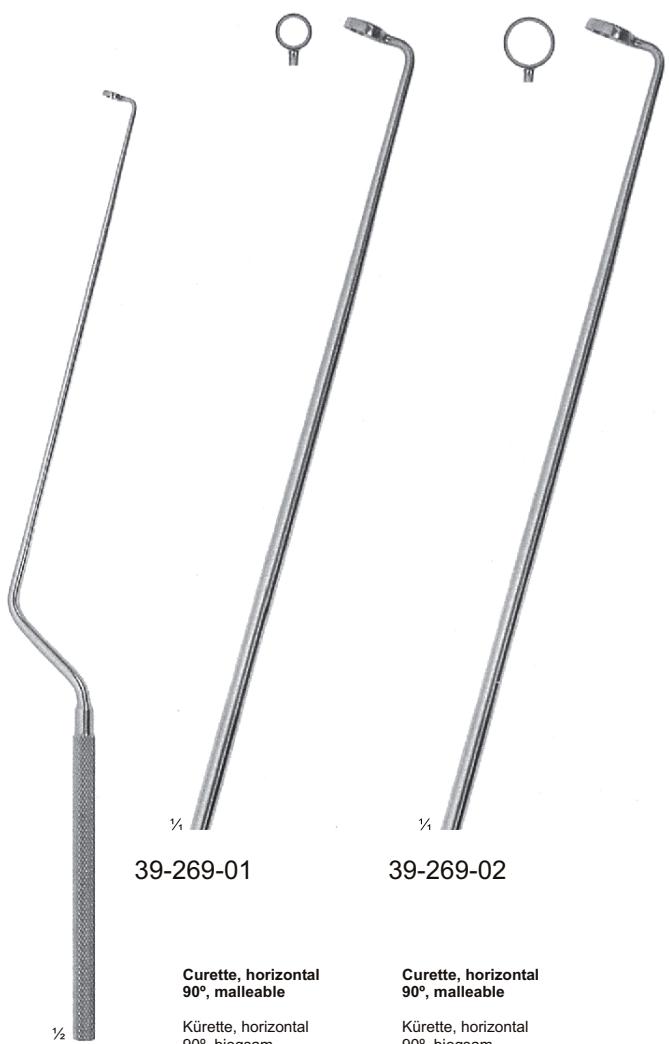
Cureta horizontal 90°, maleable

Curette horizontale 90°, malléable

Curette horizontale 90°, malléable

Curetta orizzontale 90°, malleabile

Curetta orizzontale 90°, malleabile



HARDY

39-269-01

39-269-02

26 cm, 10 1/4"

RAY  
39-268-01  
39-268-03  
18,5 cm, 7 1/4"



**Dissectors**  
Dissektoren  
Disectores  
Dissecteurs



039



HARDY  
39-270-01

HARDY  
39-270-02

HARDY  
39-270-03

HARDY  
39-270-04

HARDY  
39-270-05

HARDY  
39-270-06

HARDY  
39-270-07

39-270-01  
39-270-07  
24,5 cm, 9 3/4"

**Enucleators, blunt**  
Enukleatoren, stumpf  
Enucleadores, romos  
Enucleateurs, moux  
Enucleatore, smusso

**Dissectors, sharpened inner edge**  
Dissektoren, innen scharf  
Disectores, agudos en el interior  
Dissecadores, agudos en el interior  
Dissecteur, pointus à l'intérieur  
Dissetori, bordo interno acuto

**Dissectors, sharpened inner edge**  
Dissektoren, innen scharf  
Disectores, agudos en el interior  
Dissecadores, agudos en el interior  
Dissecteur, pointus à l'intérieur  
Dissetori, bordo interno acuto

**Implant fork**  
Implantations-gabel  
Horquilla para implantar  
Fourchette pour implants  
Forcehetta per implantare



## Micro Instruments

Mikro-Instrumente

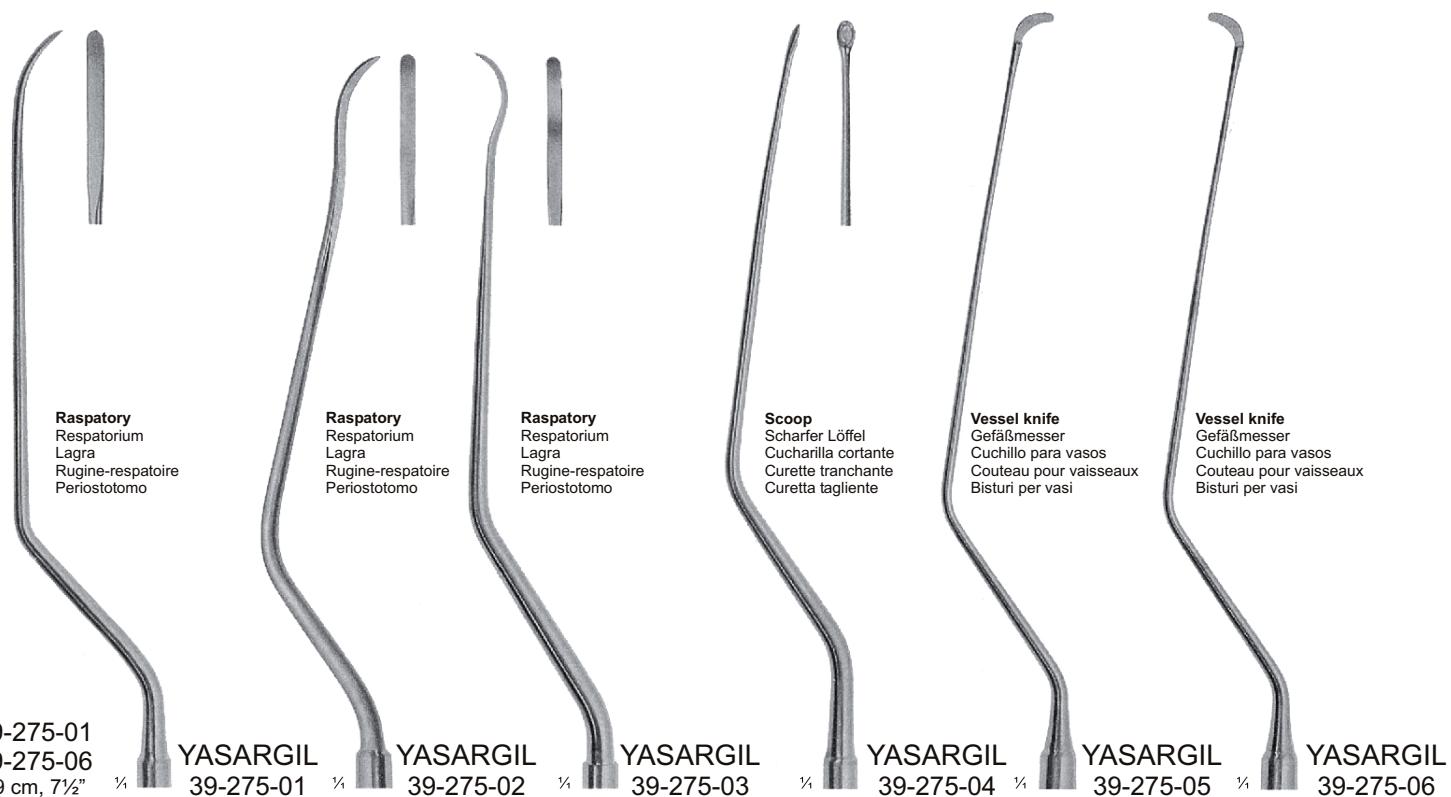
Instrumentos para microcirugía

Instruments pour microchirurgie

Strumenti per microchirurgia



039





## Micro Instruments

Mikro-Instrumente

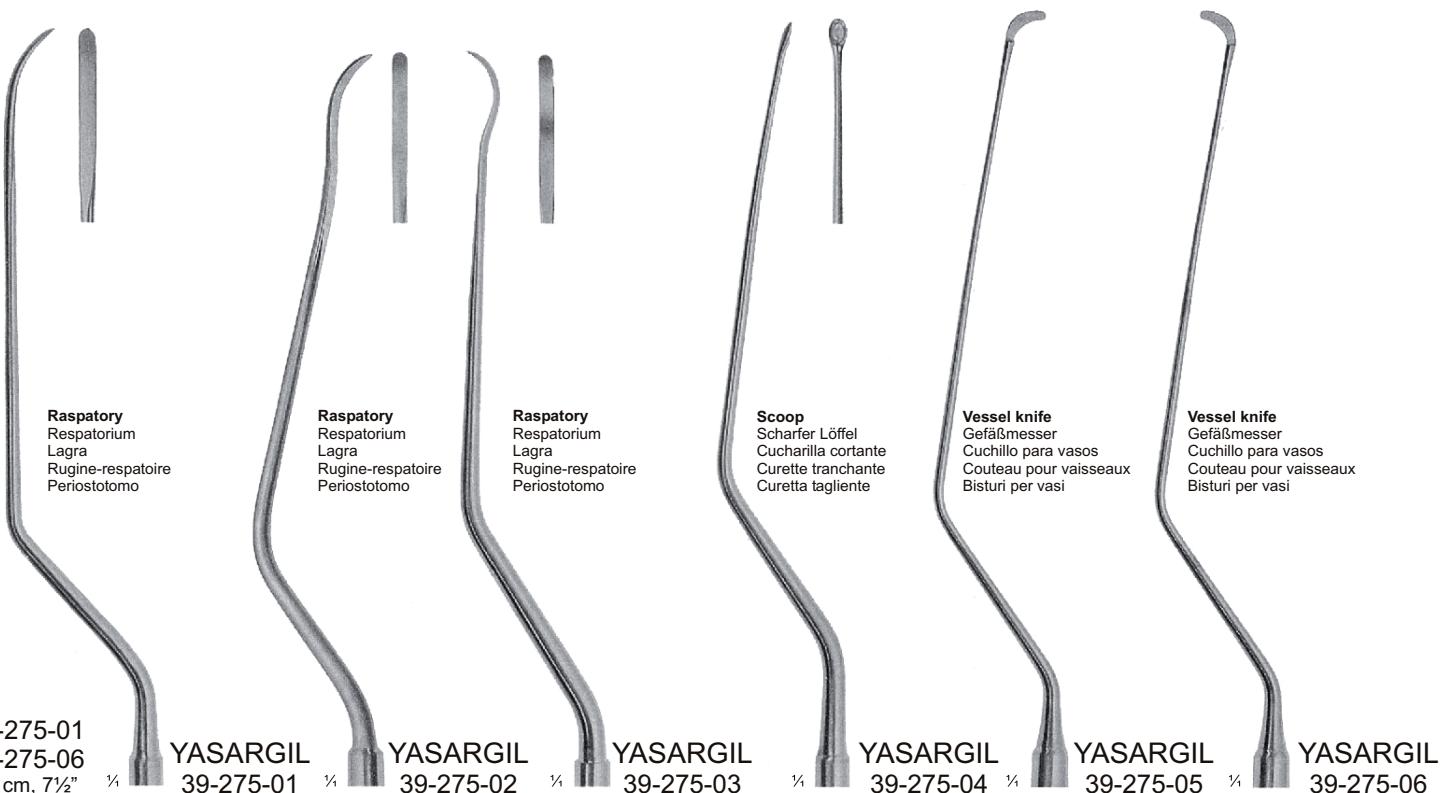
Instrumentos para microcirugía

Instruments pour microchirurgie

Strumenti per microchirurgia



039





## Micro Instruments

Mikro-Instrumente

Instrumentos para microcirugía

Instruments pour microchirurgie

Strumenti per microchirurgia



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**YASARGIL**  
39-278-01  
19 cm, 7 1/2"

**Raspatory**  
Raspatorium  
Legra  
Rugine-raspatoire  
Peristotomo



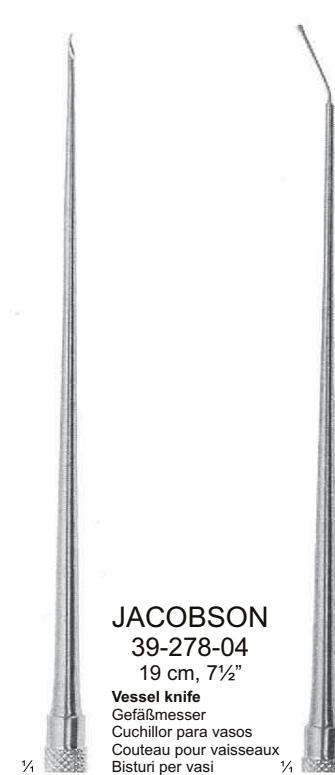
**YASARGIL**  
39-278-02  
19 cm, 7 1/2"

**Raspatory**  
Raspatorium  
Legra  
Rugine-raspatoire  
Peristotomo



**YASARGIL**  
39-278-03  
19 cm, 7 1/2"

**Raspatory**  
Raspatorium  
Legra  
Rugine-raspatoire  
Peristotomo



**JACOBSON**  
39-278-04  
19 cm, 7 1/2"

**Vessel knife**  
Gefäßmesser  
Cuchillo para vasos  
Couteau pour vaisseaux  
Bisturi per vasi



**JACOBSON**  
39-278-05  
19 cm, 7 1/2"

**Buttoned probe**  
Knopfsonde  
Sonda abotonada  
Sonde boutonnée  
Sonda bottonula



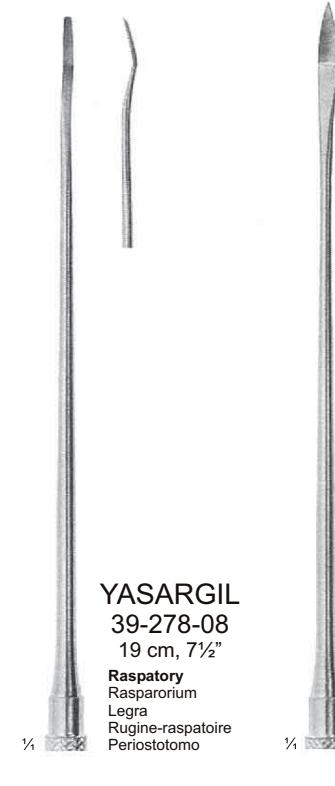
39-278-01  
39-278-09



**JACOBSON**  
39-278-06  
19 cm, 7 1/2"  
**Twin probe**  
Doppelsonde  
Sonda doble  
Sonde double  
Sonda doppia



**JACOBSON**  
39-278-07  
19 cm, 7 1/2"  
**Suture pusher**  
Fadengabel  
Empujador de sutura  
Fourche à fil  
Punzone per sutura



**YASARGIL**  
39-278-08  
19 cm, 7 1/2"  
**Raspatory**  
Raspatorium  
Legra  
Rugine-raspatoire  
Peristotomo



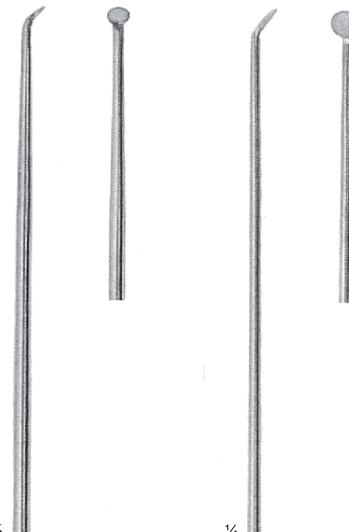
**YASARGIL**  
39-278-09  
19 cm, 7 1/2"  
**Dissector**  
Dissektor  
Disecador  
Dissecateur  
Dissettore



**Micro Dissectors**  
Mikro-Dissektoren  
Micro-dissectores  
Micro dissecteurs

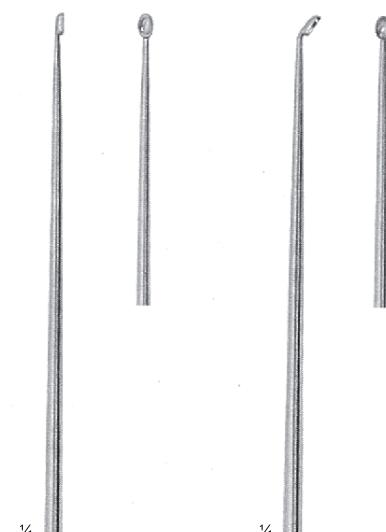


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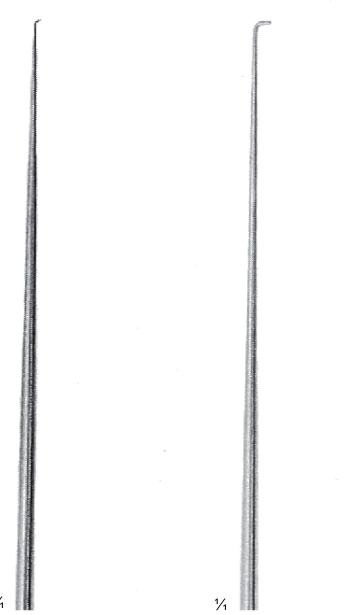
**39-280-01**  
23 cm, 9"  
**Raspatory**  
Raspatorium  
Lagra  
Rugine-raspatoire  
Periotomo

**39-280-02**  
23 cm, 9"  
**Raspatory**  
Raspatorium  
Lagra  
Rugine-raspatoire  
Periotomo



**39-280-03**  
23 cm, 9"  
**Scoop**  
Scharfer Löffel  
Cuchilla cortante  
Curette tranchante  
Cureta tagliente

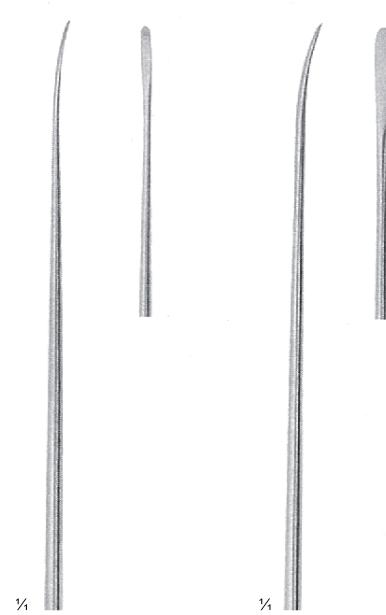
**39-280-04**  
23 cm, 9"  
**Scoop**  
Scharfer Löffel  
Cuchilla cortante  
Curette tranchante  
Cureta tagliente



**39-280-05**  
23 cm, 9"  
**Hook**  
Häkchen  
Gancho  
Crochet  
Uncino



**39-280-06**  
23 cm, 9"  
**Hook**  
Häkchen  
Gancho  
Crochet  
Uncino



**39-280-07**  
23 cm, 9"  
**Dissector**  
Dissektor  
Dissecador  
Dissecteur  
Dissettore

**39-280-08**  
23 cm, 9"  
**Dissector**  
Dissektor  
Dissecador  
Dissecteur  
Dissettore

39-280-01  
39-280-08



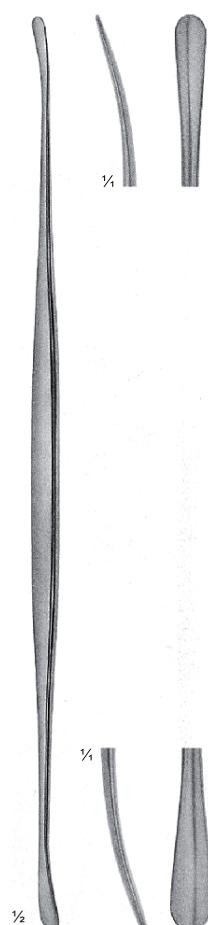
**Dura Dissectors and Elevators**  
Dura Dissektoren und -Elevatorien  
Disectores y elevadores para dura-madre  
Dissecteur et élévateurs à dure-métre



039



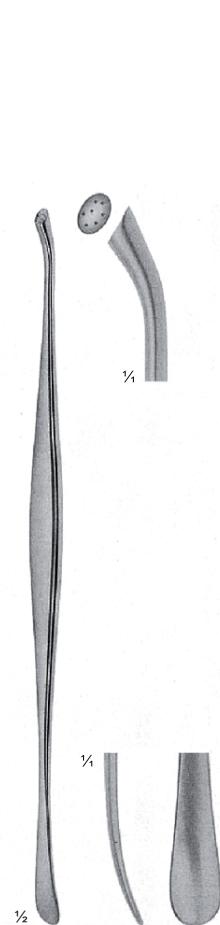
DAVIS  
39-282-24  
24,5 cm, 9 $\frac{3}{4}$ "



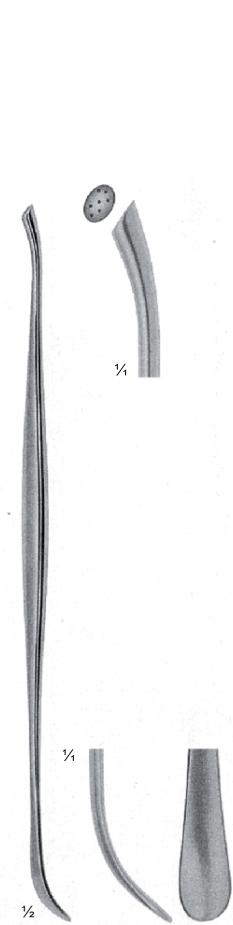
PENFIELD  
39-284-29  
29 cm, 11 $\frac{1}{2}$ "



PENFIELD  
39-286-17  
17,5 cm, 7"



PENFIELD  
39-288-19  
19,5 cm, 7 $\frac{3}{4}$ "



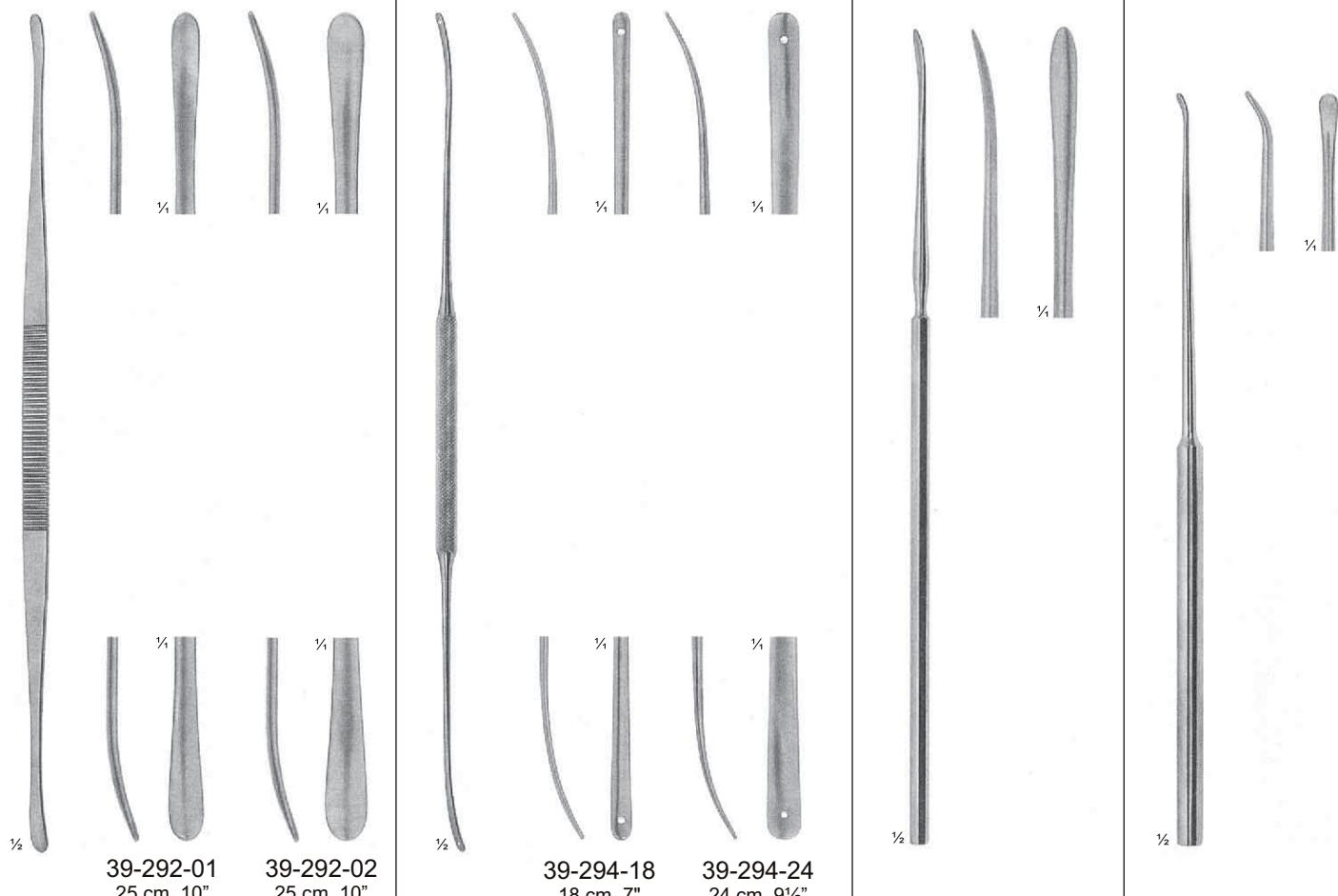
PENFIELD  
39-290-19  
19,5 cm, 7 $\frac{3}{4}$ "



**Dura Dissectors and Elevators**  
Dura Dissektoren und -Elevatorien  
Disectores y elevadores para dura-madre  
Dissecteur et élévateurs à dure-métre



039



TOENNIS  
39-292-01  
39-292-02

39-292-01  
25 cm, 10"

39-292-02  
25 cm, 10"

OLIVECRONA  
39-294-18  
39-294-24

39-294-18  
18 cm, 7"

39-294-24  
24 cm, 9½"

SACHS  
39-296-21  
21 cm, 8¼"

PENFIELD  
39-298-21  
21 cm, 8¼"



**Dura Dissectors and Elevators**  
Dura Dissektoren und -Elevatorien  
Disectores y elevadores para dura-madre  
Dissecteur et élévateurs à dure-métre



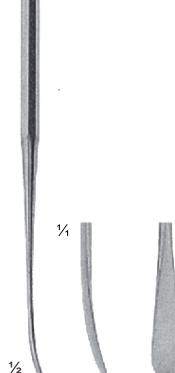
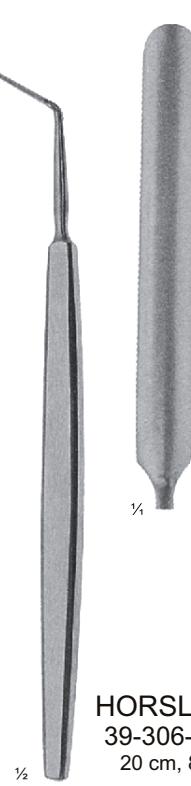
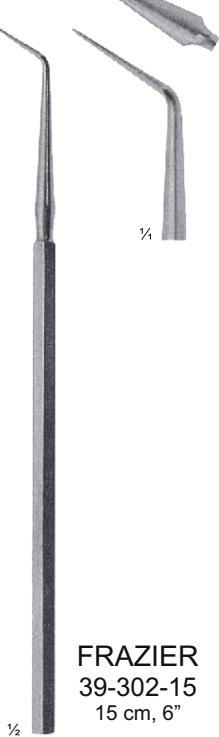
039



FRAZIER  
39-300-01  
15 cm, 6"

HOEN  
39-300-02  
15 cm, 6"

HOEN  
39-300-03  
15 cm, 6"



MILIGAN  
39-308-21  
21 cm, 8 1/4"



SACHS  
39-310-21  
21 cm, 8 1/4"

FRAZIER  
39-302-15  
15 cm, 6"

HORSLEY  
39-306-20  
20 cm, 8"



### Nerve root retractors

Nervwurzelhaken

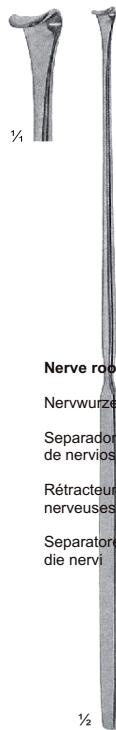
Separadors para la raíz de nervios

Rétracteurs pour racines nerveuses

Separatori per le radici dei nervi



039



Nerve root retractor

Nervwurzelhaken

Separador para la raíz

de nervios

Rétracteur pour racines

nerveuses

Separatore per le radici

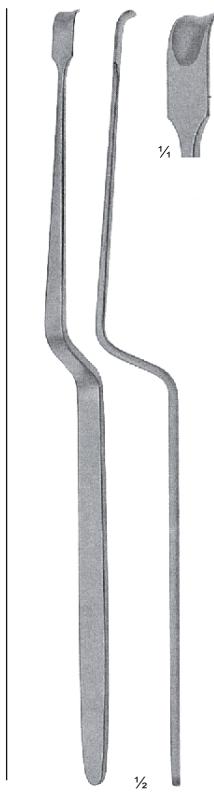
de nervi

LOVE  
39-340-20  
20 cm, 8"



LOVE  
39-340-18  
18 cm, 7"

LOVE  
39-340-14  
14 cm, 5½"



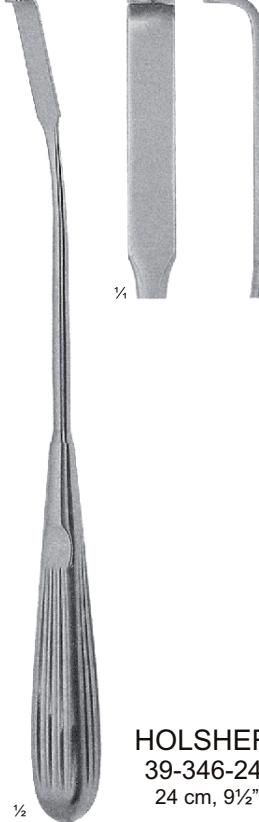
Nerve root retractor  
Nervwurzelhaken  
Separador para la raíz  
de nervios  
Rétracteur pour racines  
nerveuses  
Separatore per le radici  
de nervi

LOVE  
39-345-23  
23 cm, 9"



Nerve root retractor  
Nervwurzelhaken  
Separador para la raíz  
de nervios  
Rétracteur pour racines  
nerveuses  
Separatore per le radici  
de nervi

SCOVILLE  
39-346-23  
23 cm, 9"



SCOVILLE  
39-346-20  
20 cm, 8"

Decompression hook  
Dekompressionshaken  
Gancho para decompresión  
Crochet pour décompression  
Gancio per decompressione

CUSHING  
39-348-20  
20 cm, 8"



**Brian Spatulas**  
Hirnspatel  
Espátulas cerebrales  
Spatules cérébrales  
Spatole cerebrali

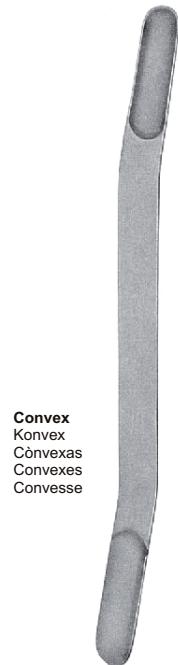


039



Concave  
Konkav  
Còncaves  
Concaves  
Concave

**OLIVECRONA**  
39-252-01 7 + 9 mm x 180 mm  
39-252-02 11 + 13 mm x 180 mm  
39-252-03 15 + 18 mm x 180 mm  
39-252-04 18 + 22 mm x 180 mm  
  
18 cm, 7"



Convex  
Konvex  
Cònexas  
Convexes  
Convexe

**OLIVECRONA**  
39-350-01 7 + 9 mm x 180 mm  
39-350-02 11 + 13 mm x 180 mm  
39-350-03 15 + 18 mm x 180 mm  
39-350-04 18 + 21 mm x 180 mm  
  
18 cm, 7"



Malleable  
Biegsam  
Maleables  
Malléables  
Malleabili

**DAVIS**  
39-355-01 13 mm x 190 mm  
39-355-02 16 mm x 190 mm  
  
18 cm, 7"



CUSHING  
39-356-01  
10 + 12 mm x 195 mm



Malleable  
Biegsam  
Maleables  
Malléables  
Malleabili

**HEIFETZ**  
39-357-01 8 mm x 155 mm  
39-357-02 11 mm x 155 mm  
39-357-03 14 mm x 155 mm  
39-357-04 17 mm x 155 mm

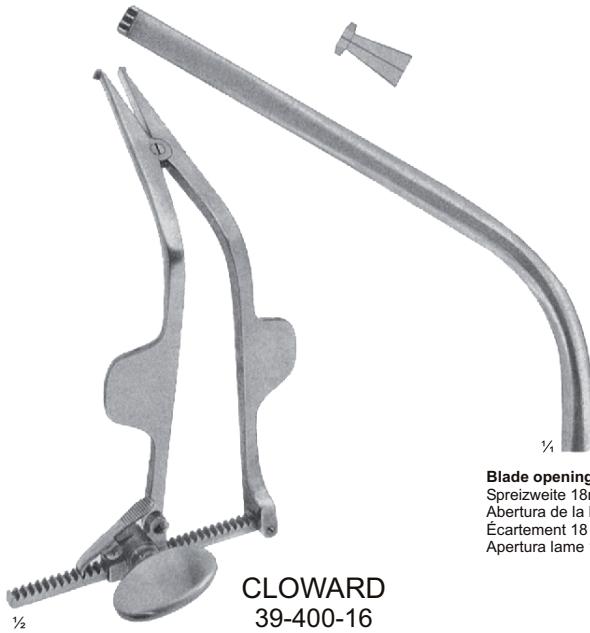


Malleable  
Biegsam  
Maleables  
Malléables  
Malleabili

**HEIFETZ**  
39-359-01 14 mm x 200 mm  
39-359-02 17 mm x 200 mm  
39-359-03 20 mm x 200 mm  
  
18 cm, 7"



**Lamina Spreaders**  
wirbelkörperspreizer  
Separadores para cuerpos vertebrales  
Ecarteurs pour corps vertébraux



CLOWARD  
39-406-16  
16 cm 6 1/2"



INGE  
39-410-16  
16,5 cm 6 1/2"



INGE  
39-410-27  
27 cm 10 3/4"



### Laminection Punches

Laminektomie-Stanzen

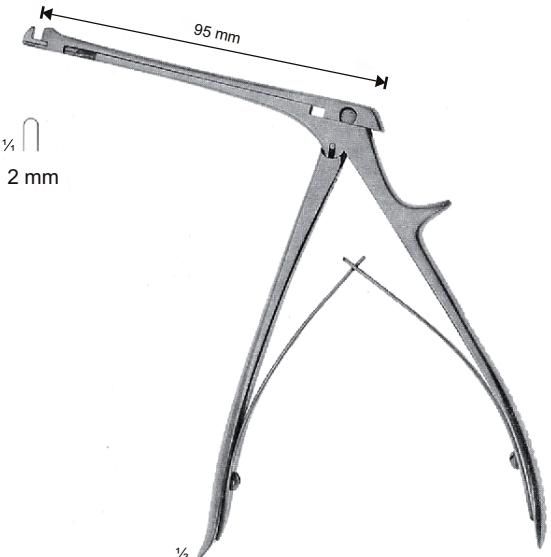
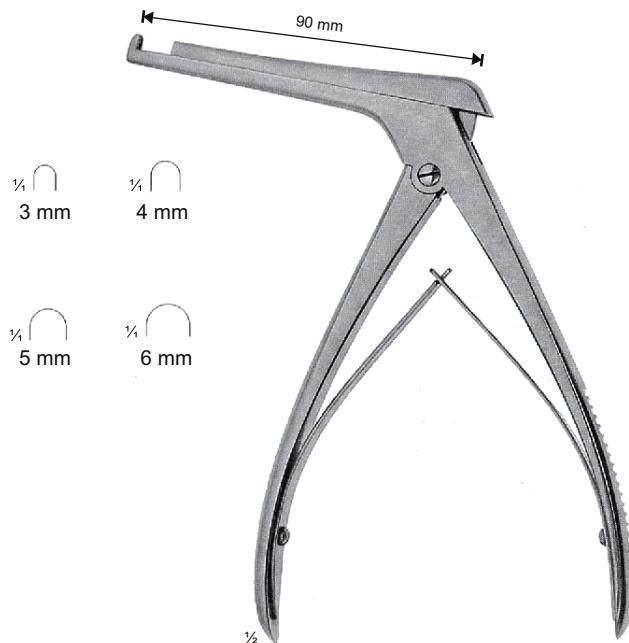
Pinzas cortantes para laminectomia

Pinces emporte-pièce à laminectomie

Pinze per laminectomia



039



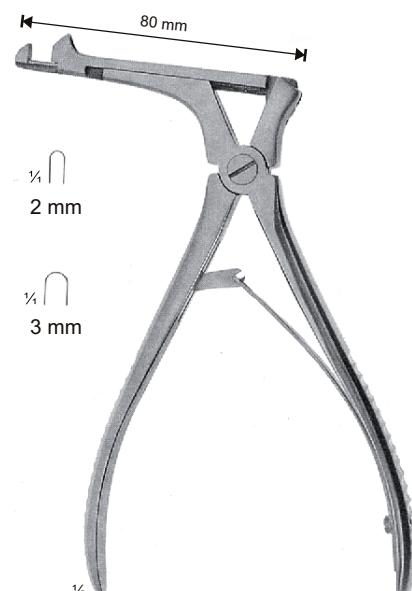
**BEYER**  
39-460-02

**Upwards cutting 90°**  
Nach oben schneidend 90°  
Cortante hacia arriba 90°  
Coupant vers le haut 90°  
Taglio a 90° verso l'alto

**KERRISON**  
39-450-03  
39-450-06  
20 cm, 8"

**Upwards cutting 90°**  
Nach oben schneidend 90°  
Cortante hacia arriba 90°  
Coupant vers le haut 90°  
Taglio a 90° verso l'alto

	<b>Width of bite</b> Bissbreite Anchura de la boca Largeur des mors Larghezza del morso	<b>Length of shaft</b> Schaftlänge Longitud del vástago Longueur de la tige Lunghezza dell'asta
39-450-03	3 mm	90 mm
39-450-04	4 mm	90 mm
39-450-05	5 mm	90 mm
39-450-06	6 mm	90 mm



**CITELLI**  
39-470-02  
39-470-03

**Upwards cutting 90°**  
Nach oben schneidend 90°  
Cortante hacia arriba 90°  
Coupant vers le haut 90°  
Taglio a 90° verso l'alto



## Laminection Punches

Laminektomie-Stanzen

Pinzas cortantes para laminectomia  
Pinces emporte-pièce à laminectomie  
Pinze per laminectomia



039

U  
39-500-03  
3,5 mm

U  
39-500-04  
4,6 mm

**upwards cutting 90°**  
nach oben schneidend 90°  
cotante hacia arriba 90°  
couplant vers le haut 90°  
taglio a 90° verso l'alto

U  
39-502-03  
3,5 mm

U  
39-502-04  
4,6 mm

**downwards cutting 90°**  
nach unten schneidend 90°  
cotante hacia abajo 90°  
couplant vers le bas 90°  
taglio a 90° verso il basso

**HAJEK-KOFLER**

39-500-03  
39-502-04

½

U  
3 mm

**HAJEK-KOFLER**  
39-506-03

**90 ° cutting, shaft rotates 360°**  
90 ° schneidend, Schaft 360°  
Corte 90 ° ,vástago girable 360°  
Coupant à 90 ° ,tige tournant 360°  
Taglio a 90°, albero rotante di 360°

½



## Laminection Punches

Laminektomie-Stanzen

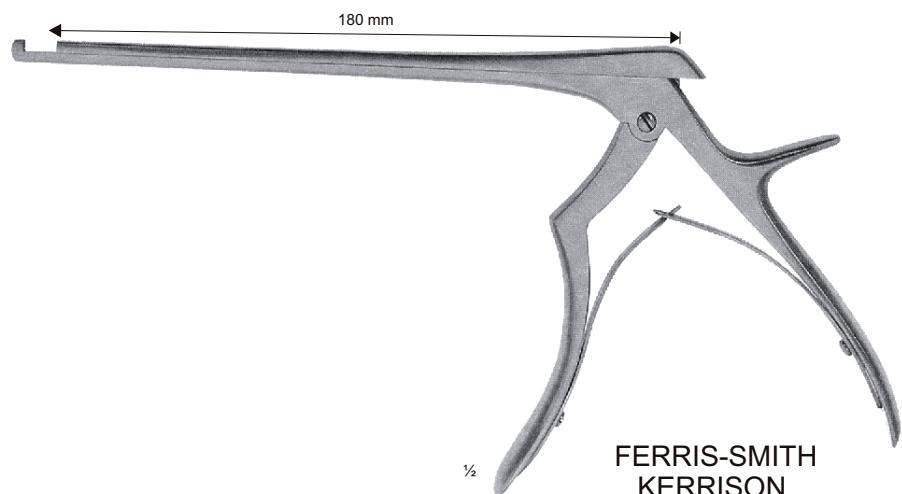
Pinzas cortantes para laminectomia

Pinces emporte-pièce à laminectomie

Pinze per laminectomia



039



FERRIS-SMITH  
KERRISON  
39-480-01  
39-486-06

Length of shaft 180 mm  
Schaftlänge 180 mm  
Longitud del vástago 180 mm  
Longueur de la tige 180 mm  
Lunghezza dell'asta 180 mm



39-480-01  
1 mm

Length of shaft 180 mm  
Schaftlänge 180 mm  
Longitud del vástago 180 mm  
Longueur de la tige 180 mm  
Lunghezza dell'asta 180 mm



39-482-01  
1 mm

Length of shaft 200 mm  
Schaftlänge 200 mm  
Longitud del vástago 200 mm  
Longueur de la tige 200 mm  
Lunghezza dell'asta 200 mm



39-486-01  
1 mm



39-486-02  
2 mm



39-486-02  
2 mm



39-480-03  
3 mm



39-482-03  
3 mm



39-486-03  
3 mm



39-480-04  
4 mm



39-482-04  
4 mm



39-486-04  
4 mm



39-480-05  
5 mm



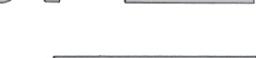
39-482-05  
5 mm



39-486-05  
5 mm



39-480-06  
6 mm



39-482-06  
6 mm



39-486-06  
6 mm

39-480-01  
39-480-06

39-482-01  
39-482-06

39-486-01  
39-486-06



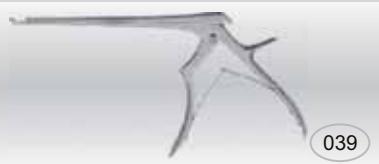
## Laminectomy Punches

Laminektomie-Stanzen

Pinzas cortantes para laminectomía

Pincers emporte-pièce à laminectomie

Pinze per laminectomia



039

Length of shaft 200 mm

Schaftlänge 200 mm

Longitud del vástago 200 mm

Longueur de la tige 200 mm

Lunghezza dell'asta 200 mm



39-488-01  
1mm



39-490-06  
6mm



39-488-02  
2mm



39-490-05  
5mm



39-488-03  
3mm



39-490-04  
4mm



39-488-04  
4mm



39-490-03  
3mm



39-488-05  
5mm



39-490-02  
2mm

FERRIS-SMITH  
KERRISON

upwards cutting 90°  
nach oben schneidend 90°  
cotante hacia arriba 90°  
couplant vers le haut 90°  
taglio a 90° verso l'alto

downwards cutting 90°  
nach unten schneidend 90°  
cotante hacia abajo 90°  
couplant vers le bas 90°  
taglio a 90° verso il basso



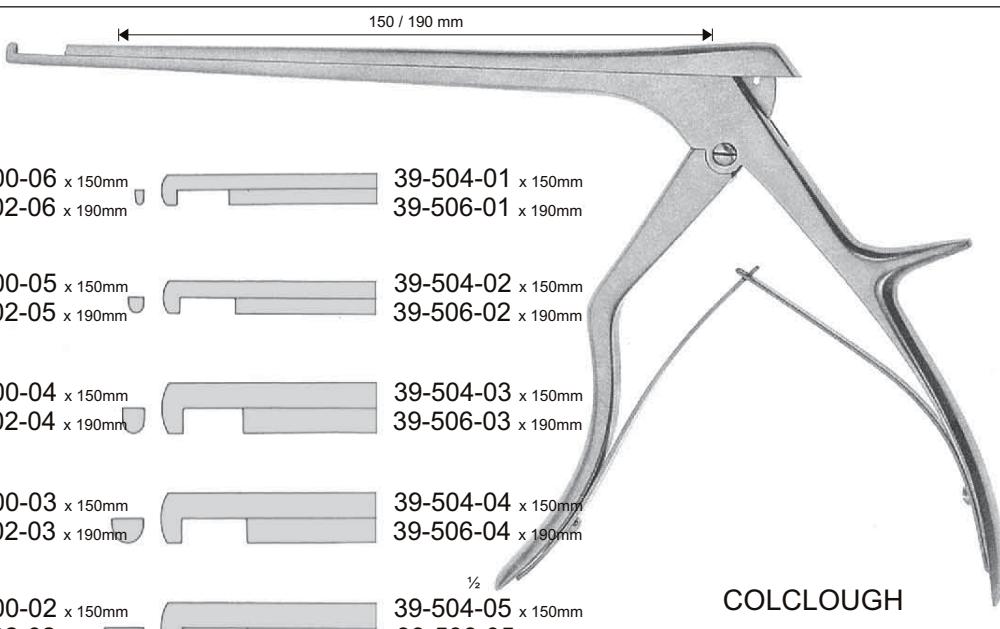
39-488-06  
6mm



39-490-01  
1mm

39-488-01  
39-488-06

39-490-01  
39-490-06



39-500-06 x 150mm  
39-502-06 x 190mm



39-504-01 x 150mm  
39-506-01 x 190mm



39-500-05 x 150mm  
39-502-05 x 190mm



39-504-02 x 150mm  
39-506-02 x 190mm



39-500-04 x 150mm  
39-502-04 x 190mm



39-504-03 x 150mm  
39-506-03 x 190mm



39-500-03 x 150mm  
39-502-03 x 190mm



39-504-04 x 150mm  
39-506-04 x 190mm



39-500-02 x 150mm  
39-502-02 x 190mm



39-504-05 x 150mm  
39-506-05 x 190mm



39-500-01 x 150mm  
39-502-01 x 190mm



39-504-06 x 150mm  
39-506-06 x 190mm

COLCLOUGH

Length of shaft 180 mm  
Schaftlänge 180 mm  
Longitud del vástago 180 mm  
Longueur de la tige 180 mm  
Lunghezza dell'asta 180 mm

39-500-01  
39-504-06

Length of shaft 190 mm  
Schaftlänge 190 mm  
Longitud del vástago 190 mm  
Longueur de la tige 190 mm  
Lunghezza dell'asta 190 mm

39-502-01  
39-506-06



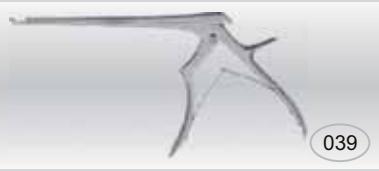
## Laminection Punches

Laminektomie-Stanzen

Pinzas cortantes para laminectomia

Pinces emporte-pièce à laminectomie

Pinze per laminectomia



039

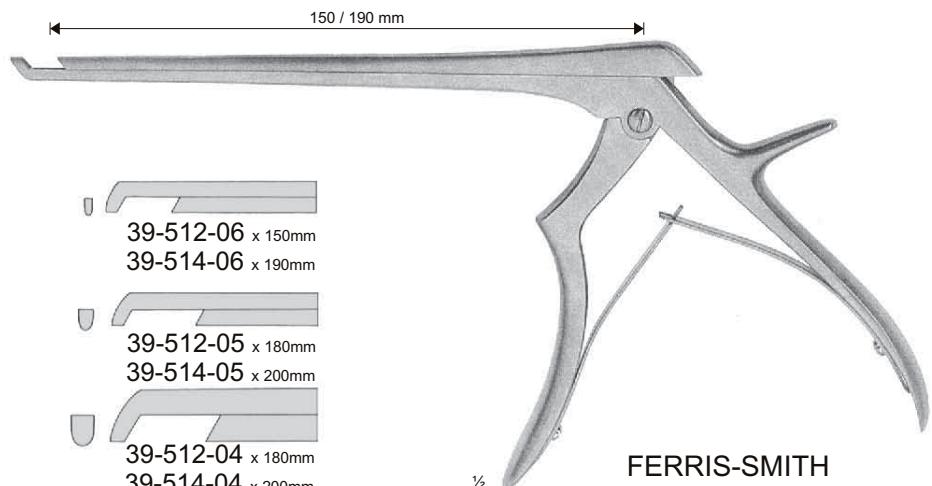
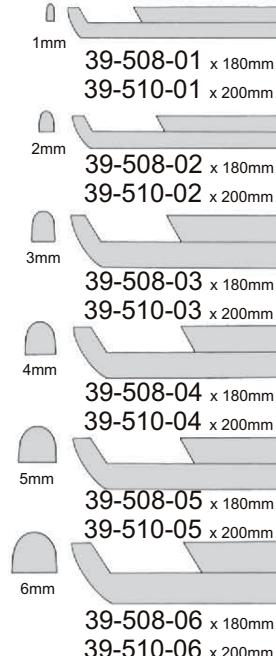
Length of shaft 200 mm

Schaftlänge 200 mm

Longitud del vástago 200 mm

Longueur de la tige 200 mm

Lunghezza dell'asta 200 mm



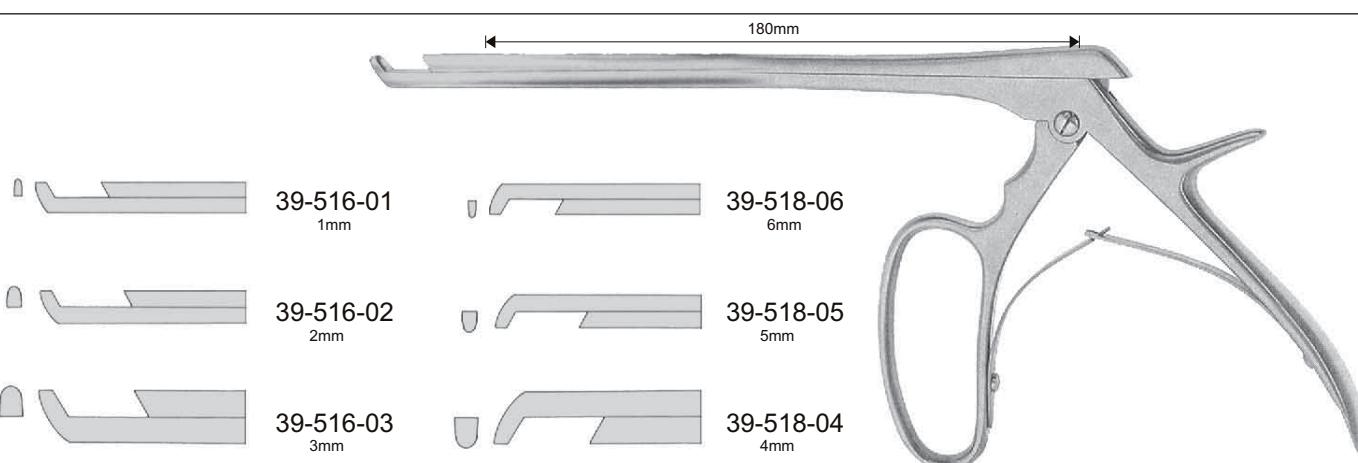
FERRIS-SMITH  
KERRISON

upwards cutting 90°  
nach oben schneidend 90°  
cotante hacia arriba 90°  
couplant vers le haut 90°  
taglio a 90° verso l'alto

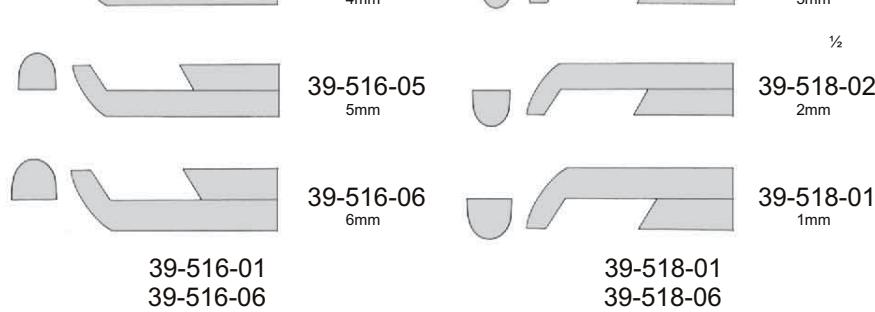
39-488-01  
39-488-06

downwards cutting 90°  
nach unten schneidend 90°  
cotante hacia abajo 90°  
couplant vers le bas 90°  
taglio a 90° verso il basso

39-490-01  
39-490-06



COLCLOUGH





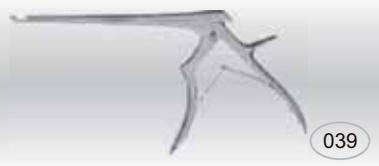
## Laminectomy Rongeurs

Laminektomie-Zangen

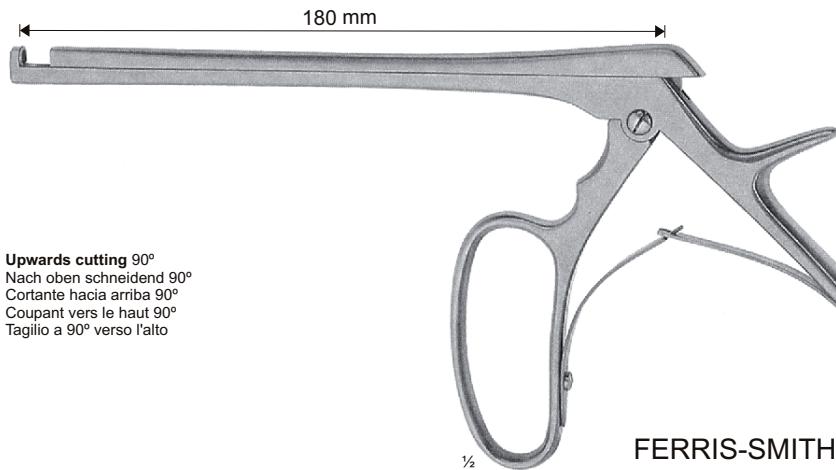
Pinzas cortantes para laminectomía

Pinces emporte-pièces à laminectomie

Pinze per laminectomia

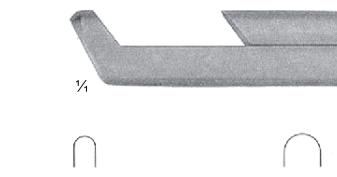


039



FERRIS-SMITH  
KERRISON

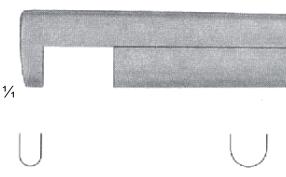
39-360-03  
39-364-05



Upwards cutting 90°  
Nach oben schneidend 90°  
Cortante hacia arriba 90°  
Coupant vers le haut 90°  
Tagilio a 90° verso l'alto

39-530-03  
3 mm x 5

39-530-05  
5 mm x 5



39-532-03  
3 mm x 5

39-532-05  
5 mm x 5

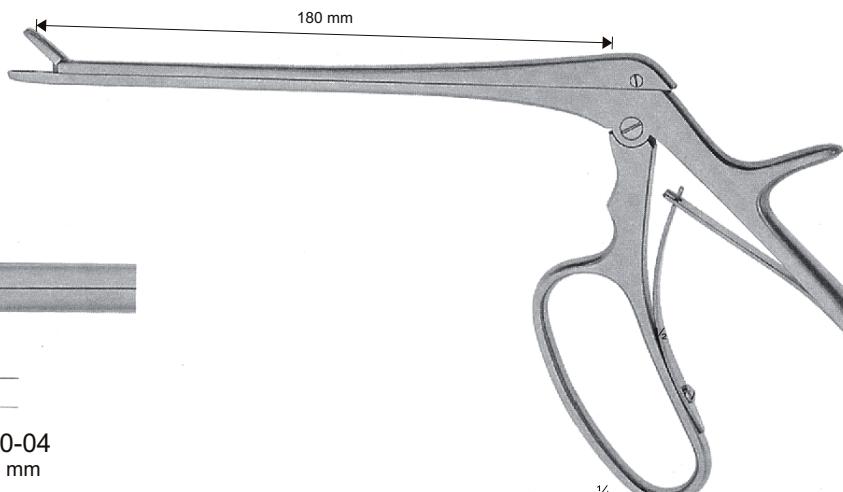
downwards cutting 90°  
nach unten schneidend 90°  
cotante hacia abajo 90°  
coupant vers le bas 90°  
taglio a 90° verso il basso

39-534-03  
3 mm x 3

39-534-03  
5 mm x 5

Upwards cutting 130°  
Nach oben schneidend 130°  
Cortante hacia arriba 130°  
Coupant vers le haut 130°  
Tagilio a 130° verso l'alto

Straight  
Gerade  
Recta  
Droits  
Retta



FERRIS-SMITH-CUSHING

39-540-02  
39-544-04

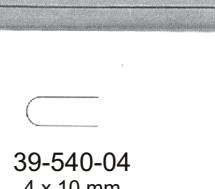
Curved down  
Abwärts gebogen  
Curva hacia abajo  
Courbure vers le bas  
Curva verso il basso



39-540-02  
2 x 10 mm



39-540-03  
3 x 10 mm



39-540-04  
4 x 10 mm

Curved on flat  
Aufgebogen  
Curva hacia arriba  
Courbure vers le haut  
Curva verso l'alto



39-542-02  
2 x 10 mm

39-542-03  
3 x 10 mm

39-542-04  
4 x 10 mm



39-544-02  
2 x 10 mm

39-544-03  
3 x 10 mm

39-544-04  
4 x 10 mm

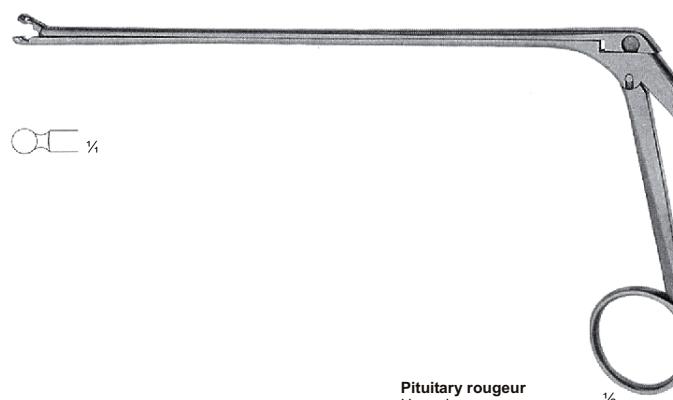


**Sharp pituitary Rongeurs**  
Scharfe Hypophysenzangen  
Pinzas cortantes para hipofisección  
Pinces coupantes à hypophyses



039

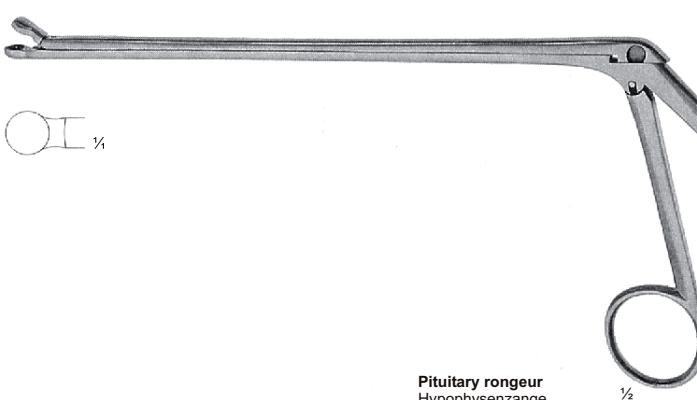
185 mm, 7 1/4"



Pituitary rongeur  
Hypophysenzange  
Pinza para hipófisis  
Pince pour l'hypophyse  
Pinza ipofisaria

**YASARGIL**  
39-550-25  
25,5 cm, 10 1/4"  
3,5 mm

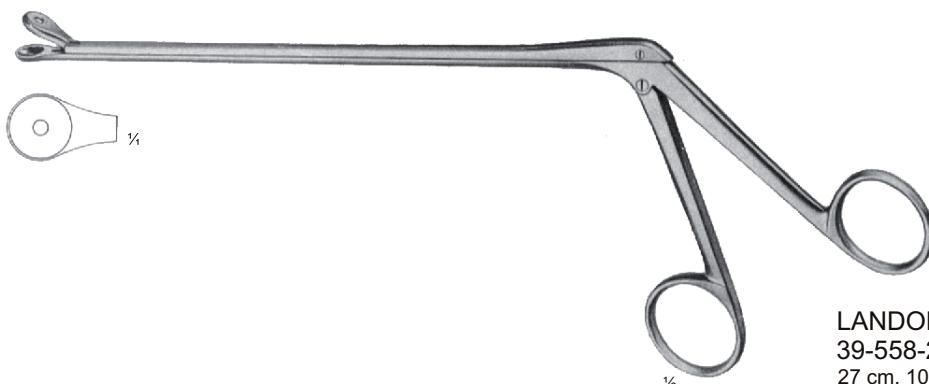
180 mm, 7 1/4"



Pituitary rongeur  
Hypophysenzange  
Pinza para hipófisis  
Pince pour l'hypophyse  
Pinza ipofisaria

**OLDBERG**  
39-554-25  
25 cm, 10"  
6 mm

200 mm, 8"



½

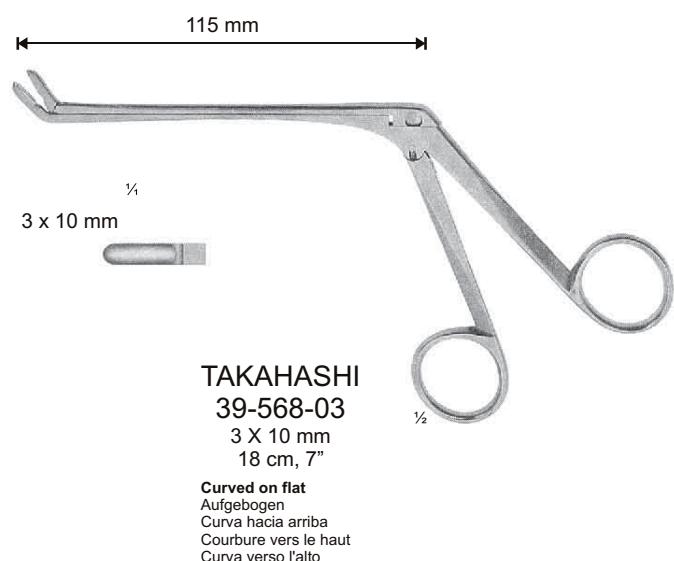
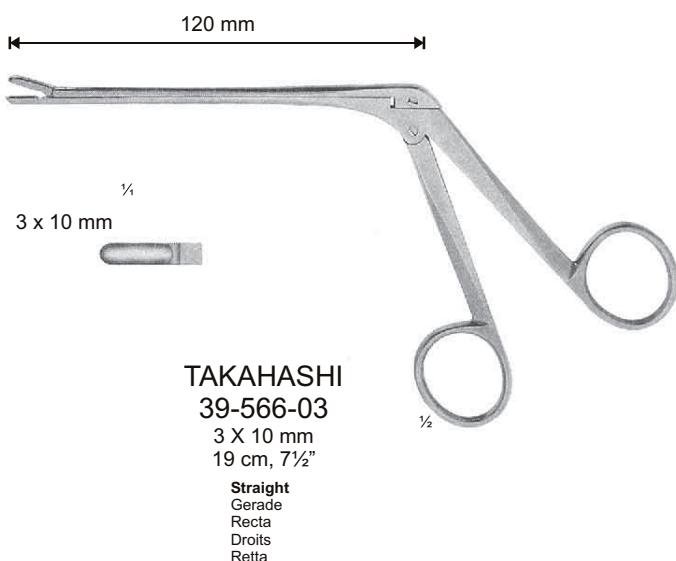
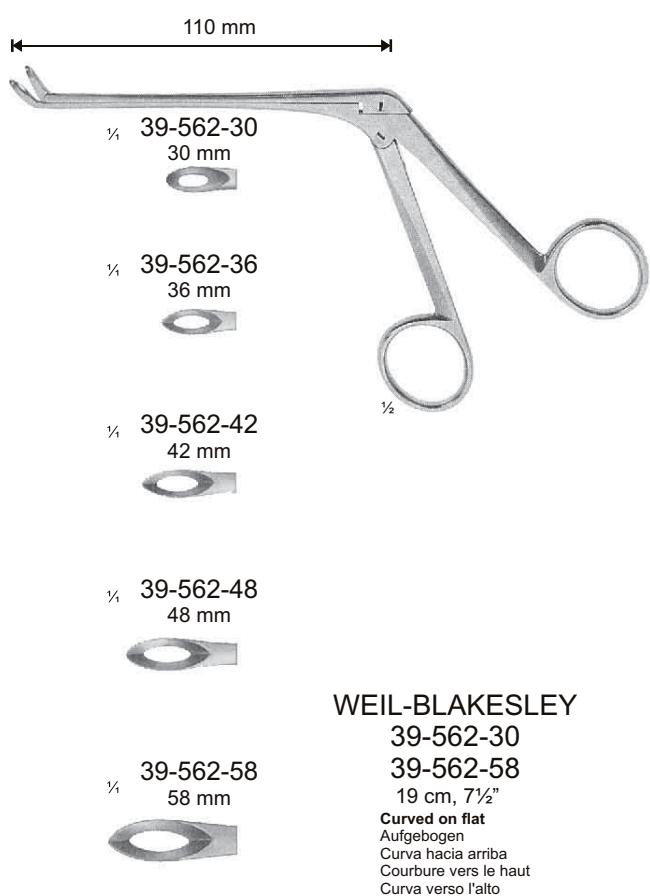
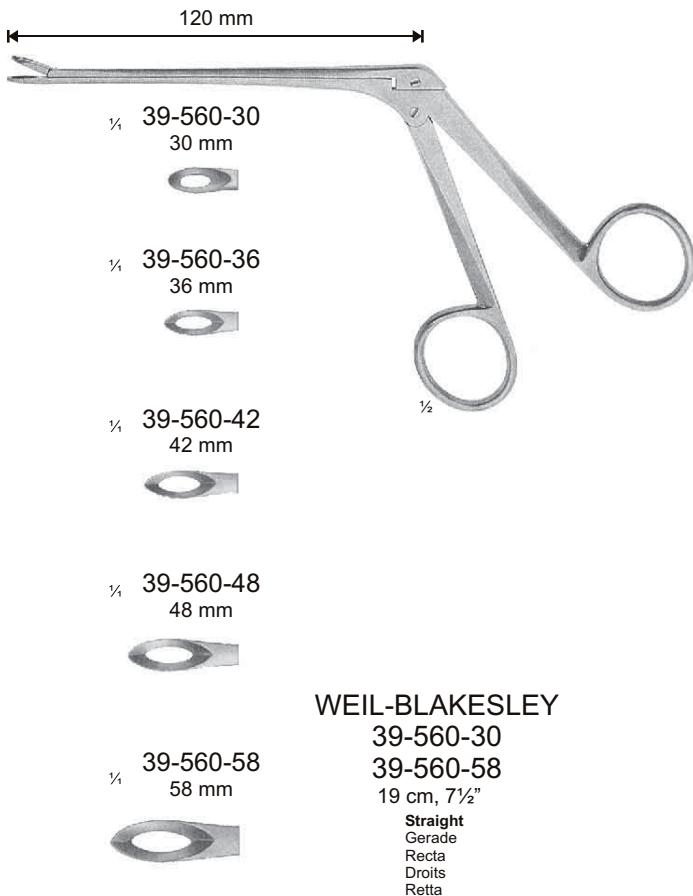
**LANDOLT**  
39-558-27  
27 cm, 10 ¾"



**Sharp pituitary Rongeurs**  
Scharfe Hypophysenzangen  
Pinzas cortantes para hipofisección  
Pince coupantes à hypophyses

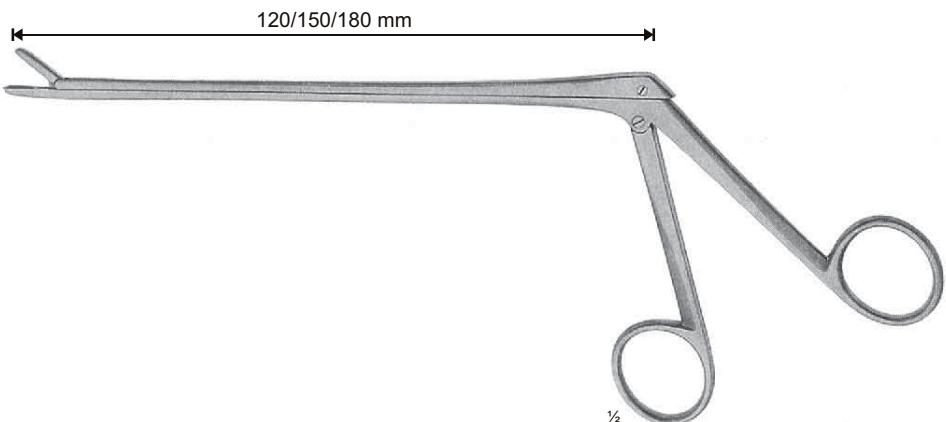


039

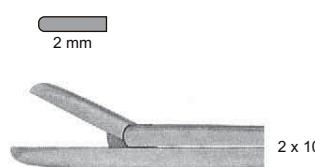




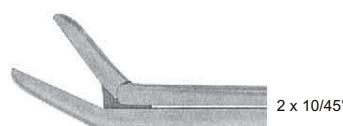
**Sharp pituitary Rongeurs**  
Scharfe Hypophysenzangen  
Pinzas cortantes para hipofisección  
Pince coupantes à hypophyses



**CUSHING**



39-570-01 12 cm  
39-570-02 15 cm  
39-570-03 18 cm

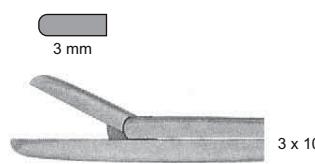


39-571-01 12 cm  
39-571-02 15 cm  
39-571-03 18 cm

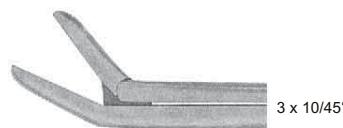


39-572-01 12 cm  
39-572-02 15 cm  
39-572-03 18 cm

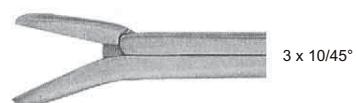
**LOVE-GRVENWALD**



39-574-01 12 cm  
39-574-02 15 cm  
39-574-03 18 cm

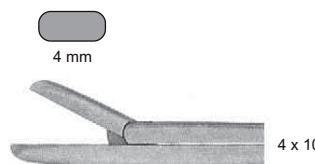


39-575-01 12 cm  
39-575-02 15 cm  
39-575-03 18 cm

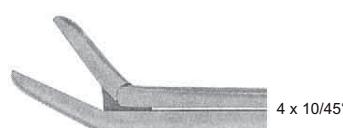


39-576-01 12 cm  
39-576-02 15 cm  
39-576-03 18 cm

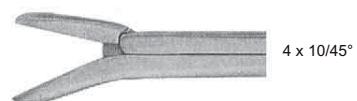
**SPURLING**



39-578-01 12 cm  
39-578-02 15 cm  
39-578-03 18 cm



39-579-01 12 cm  
39-579-02 15 cm  
39-579-03 18 cm



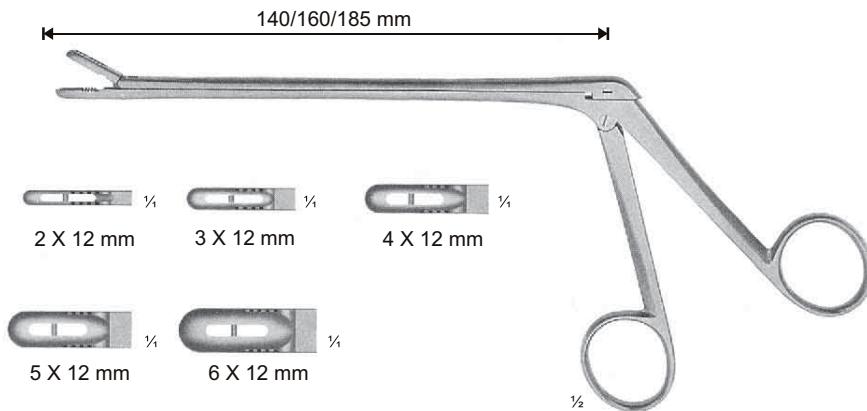
39-580-01 12 cm  
39-580-02 15 cm  
39-580-03 18 cm



**Sharp pituitary Rongeurs**  
Scharfe Hypophysenzangen  
Pinzas cortantes para hipofisectomia  
Pince coupantes à hypophyses



039



**CASPAR**  
39-600-02  
39-604-06

Streight  
Gerade  
Recta  
Droits  
Retta

	<b>Width of bite</b> Bissbreite Anchura de la boca Largeur des mors Larghezza del morso	<b>Length of shaft</b> Schaftlänge Longitud del vástago Longueur de la tige Lunghezza dell'asta
39-600-02	2 x 12 mm	140 mm
39-600-03	3 x 12 mm	140 mm
39-600-04	4x 14 mm	140 mm
39-600-05	5x 14 mm	140 mm
39-600-06	6x 16 mm	140 mm
39-602-02	2 x 12 mm	160 mm
39-602-03	3 x 12 mm	160 mm
39-602-04	4 x 14 mm	160 mm
39-602-05	5 x 14 mm	160 mm
39-602-06	6 x 16 mm	160 mm
39-604-02	2 x 12 mm	185 mm
39-604-03	3 x 12 mm	185 mm
39-604-04	4 x 14 mm	185 mm
39-604-05	5 x 14 mm	185 mm
39-604-06	6 x 16 mm	185 mm



## Laminectomy Rongeurs

Laminektomie-Zangen

Pinzas cortantes para laminectomía

Pince emporte-pièces à laminectomie

Pinze per laminectomia



039

140/160/185 mm



3 x 12 mm

4 x 14 mm

5 x 14 mm

1/2

CASPAR

39-610-03

- 39-614-05

Curved on flat

Aufgebogen

Curva hacia arriba

Courbure vers le haut

Curva verso l'alto

	Size of jaw Maulgröße Anchura de la boca Largeur des mors Larghezza del morso	Length of shaft Schaftlänge Longitud del vástago Longueur de la tige Lunghezza dell'asta
39-610-03	3 x 12 mm	140 mm
39-610-04	4 x 14 mm	140 mm
39-610-05	5 x 14 mm	140 mm
39-612-03	3 x 12 mm	160 mm
39-612-04	4 x 14 mm	160 mm
39-612-05	5 x 14 mm	160 mm
39-614-03	3 x 12 mm	185 mm
39-614-04	4 x 14 mm	185 mm
39-614-05	5 x 14 mm	185 mm

140/160/185 mm



3 x 12 mm

4 x 14 mm

1/2

CASPAR

39-620-03

- 39-624-04

Curved down

Abwärts gebogen

Curva hacia abajo

Courbure vers le bas

Curva verso il basso

	Size of jaw Maulgröße Anchura de la boca Largeur des mors Larghezza del morso	Length of shaft Schaftlänge Longitud del vástago Longueur de la tige Lunghezza dell'asta
39-620-03	3 x 12 mm	140 mm
39-620-04	4 x 14 mm	140 mm
39-622-03	3 x 12 mm	160 mm
39-622-04	4 x 14 mm	160 mm
39-624-03	3 x 12 mm	185 mm
39-624-04	4 x 14 mm	185 mm