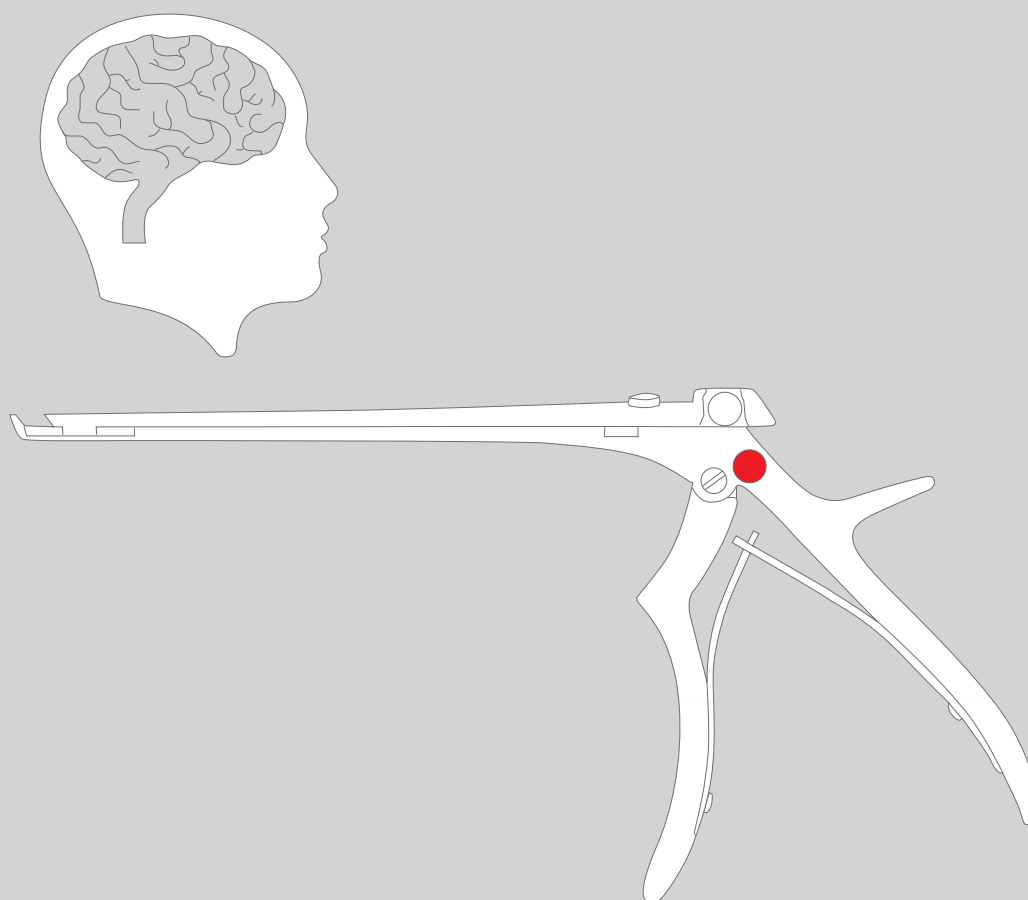
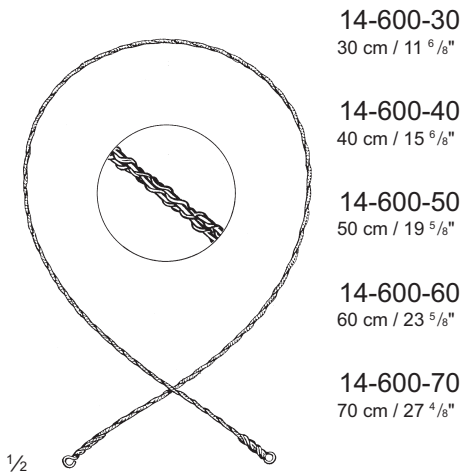


Neurosurgery
Neurochirurgie
Neurocirurgia
Neurochirurgie
Neurochirurgia

14





Gigli
14-600-30
14-600-70

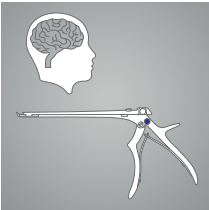
- 14-600-30
30 cm / 11 $\frac{5}{8}$ "
- 14-600-40
40 cm / 15 $\frac{5}{8}$ "
- 14-600-50
50 cm / 19 $\frac{5}{8}$ "
- 14-600-60
60 cm / 23 $\frac{5}{8}$ "
- 14-600-70
70 cm / 27 $\frac{1}{8}$ "



Gigli
14-602-01
Wire saw handle
Drahtsägen-Handgriff
Mango de gancho
Manche à crochet
Manico con uncino



De Martel
14-618-33
33 cm / 13"
Wire saw guide
Einführinstrument
Conductor para sierras de hilo
Conducteur pour fils-scies
Introduttore



Crutchfield
14-641-01

small pattern
kleines Modell
modelo pequeño
modèle petit
modello piccolo



Crutchfield
14-641-02

medium pattern
mittleres Modell
modelo mediano
modèle moyen
modello medio



Ø 3.5 mm
14-641-04

7 cm / 2 7/8"
Drill Point
Vorböhrer
Perforador
Alésoir
Alesatore



Ø 5 mm
14-641-05

7 cm / 2 7/8"
Drill Point
Vorböhrer
Perforador
Alésoir
Alesatore



14-643-01

large pattern
großes Modell
modelo grande
modèle grand
modello grande

14-643-10

Spare Pin
Ersatzdorn
Espina de repuesto
Pointe de rechange
Punta di ricambio

Cranial Rongeurs
Schädelzangen
Pinzas sacabocados craneales
Pincas emporte-pièces crâniennes
Pinze per craniectomia



1/2

Dahlgren
14-654-20

19.5 cm / 7 5/8"

with 3 hooks
mit 3 Haken
con 3 ganchos
avec 3 crochets
con 3 ganci



1/2

De Vilbiss
14-658-21

21 cm / 8 2/8"

with 2 hooks
mit 2 Haken
con 2 ganchos
avec 2 crochets
con 2 ganci



1/2

Cone
14-659-22

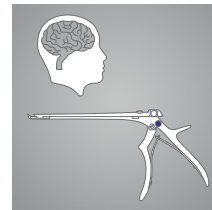
22.5 cm / 8 7/8"

Cranial Punch
Schädelstanze
Pinza sacabocado craneal
Pince emporte-pièces crânienne
Pinza per craniectomia

Clips and Applying Forceps

Clips und Anlegezangen
 Grapas y pinzas aplicadoras
 Clips et pinces pour appliquer
 Agrafes e pinze per applicare

Neurosurgery
 Neurochirurgie
 Neurocirugía
 Neurochirurgie
 Neurochirurgia



Olivecrona-Toennis 14-661-14

Clip Applying Forceps
 Klammerzange
 Pinza para colocar grapas
 Pince pour poser les agrafes en argent
 Pinza per applicare le agrafe di argento

McKenzie 14-663-19

18.5 cm / 7 2/8"
 Clip Applying Forceps
 Klammerzange
 Pinza clipadora
 Pince pour poser les agrafes
 Pinza per applicare le agrafe



Kölner 14-674-00

Scalp Clip
 Kopfhautklammer
 Grapa para cuero cabelludo
 Agrafes pour cuir chevelu
 Pinze per il cuoio capelluto
 SU = 50/pack
 VE= 50 Stück
 UV = 50 piezas
 UC = 50 unités
 UV = 50 pezzi



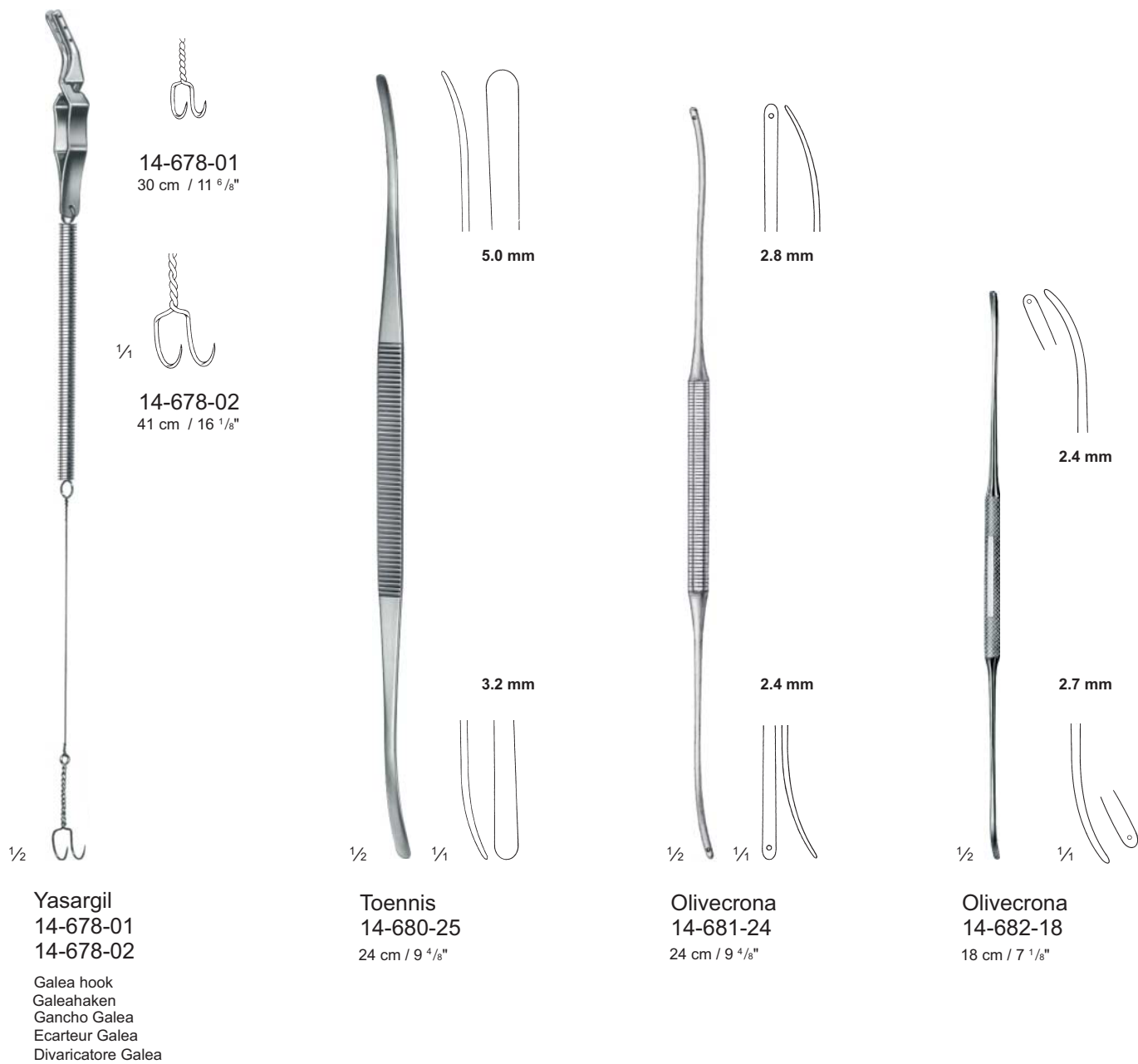
Raney 14-675-0

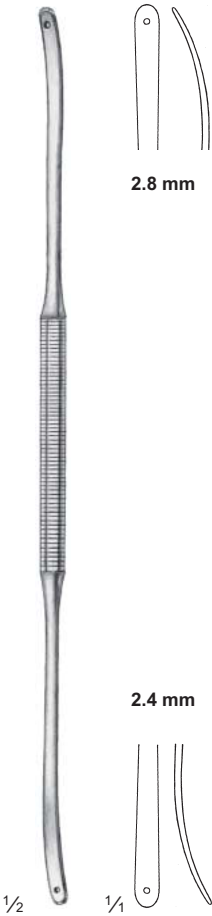
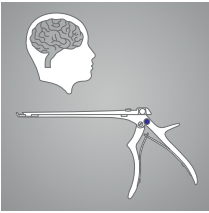
Scalp Clip
 Kopfhautklammer
 Grapa para cuero cabelludo
 Agrafes pour cuir chevelu
 Pinze per il cuoio capelluto



Raney 14-676-00

15.5 cm / 6"
 Applying/Removal Forceps
 Anlege- und Abnehmzange
 Pinza para aplicar y quitar agrafes
 Pince pour appliquer et enlever les
 clips hémostatiques du cuir
 Pinza per applicare e togliere le agrafe
 emostatiche al cuoio capelluto





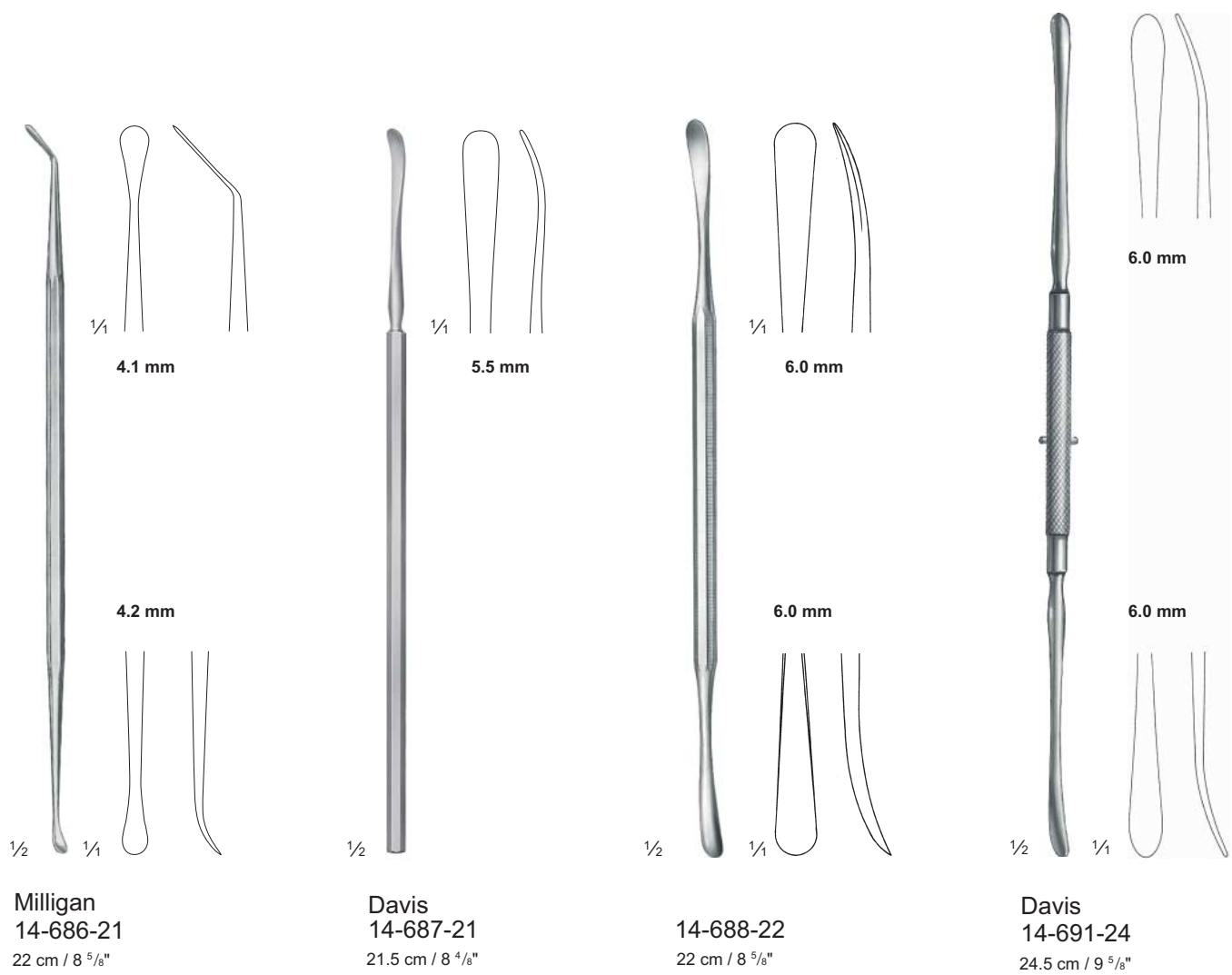
Olivecrona
14-683-24
24 cm / 9 4/8"

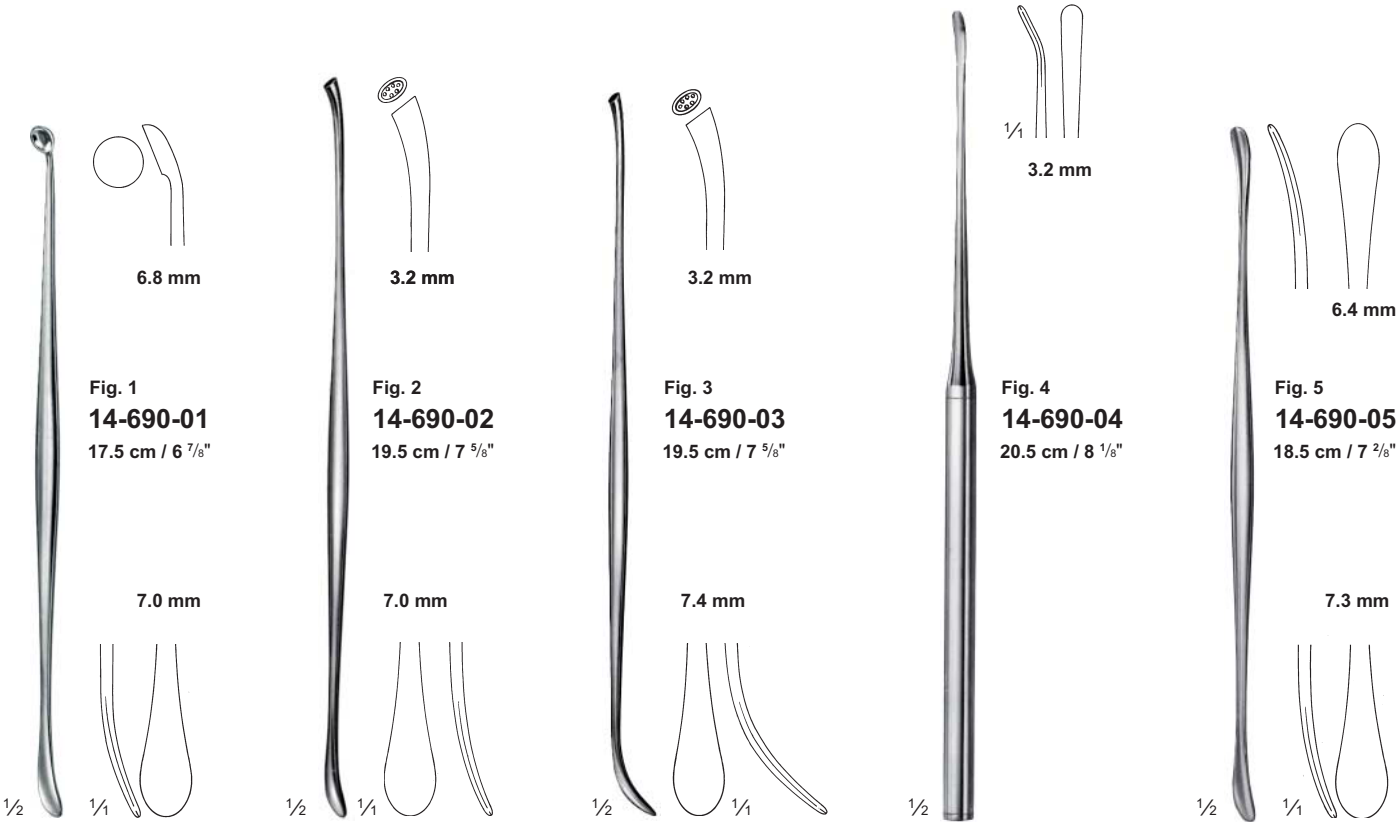
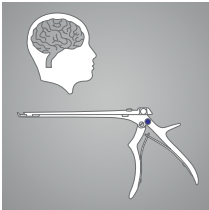


Olivecrona
14-684-19
20 cm / 7 7/8"



Sachs
14-685-21
20.5 cm / 8 1/8"





Penfield
14-690-01
14-690-05

Spatulas
Spatel
Espátulas
Spatules
Spatole



1/2

Heifetz
14-720-08
14-720-17
malleable
biegsam
maleable
malléable
malleabile

14-720-08	155 x 8 mm
14-720-11	155 x 11 mm
14-720-14	155 x 14 mm
14-720-17	155 x 17 mm



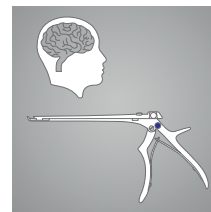
1/2

Heifetz
14-721-14
14-721-20
malleable
biegsam
maleable
malléable
malleabile

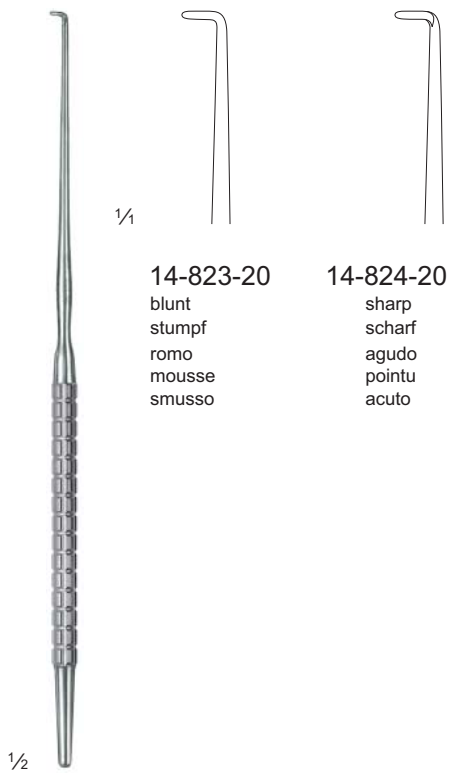


1/1

14-721-14	200 x 14 mm
14-721-17	200 x 17 mm
14-721-20	200 x 20 mm



Hooks
Haken
Ganchos
Crochets
Uncini



Adson
14-823-20-
14-824-20
20 cm / 7 7/8"



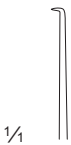
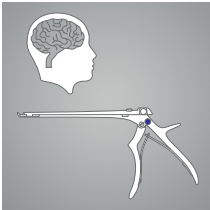
Graham
14-825-16
16.5 cm / 6 4/8"



Sachs
14-827-18
17 cm / 6 5/8"

Hooks
Haken
Ganchos
Crochets
Uncini

Neurosurgery
Neurochirurgie
Neurocirugía
Neurochirurgie
Neurochirurgia



1.4 mm
90°
14-830-19



2.5 mm
90°
14-831-19



14-835-13
13 cm / 5 1/8"

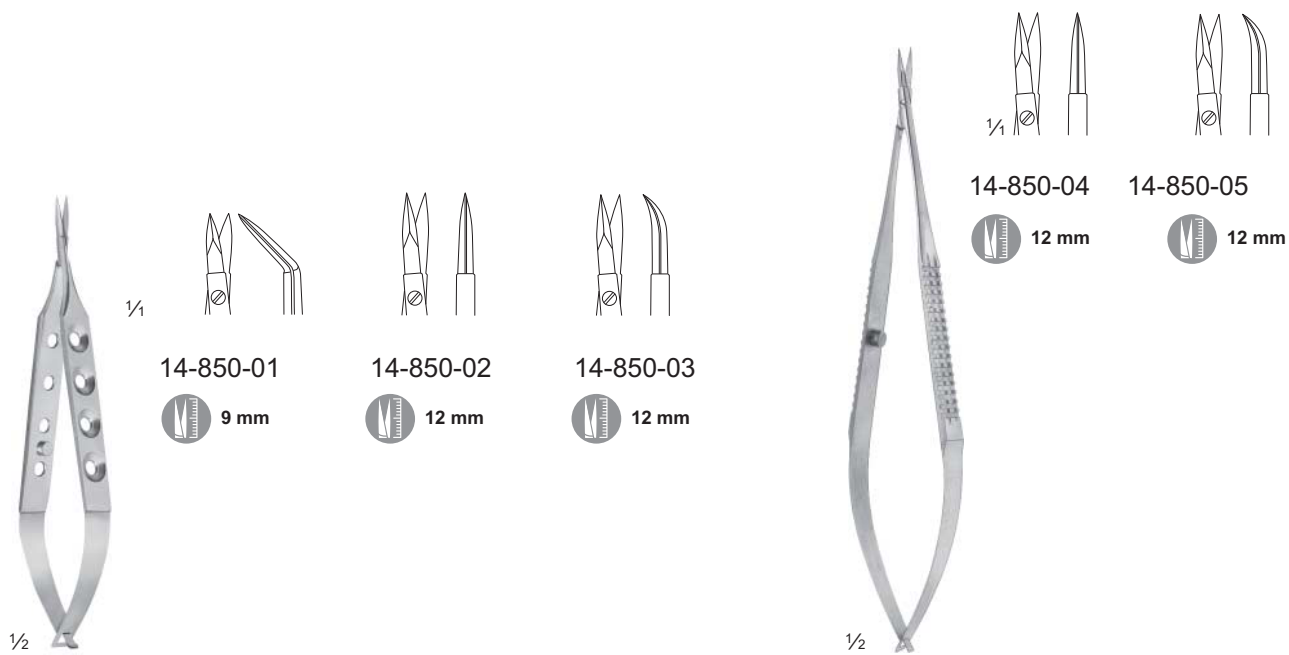


14-835-18
18 cm / 7 1/8"

14-830-19-
14-831-19
19 cm / 7 5/8"
Micro hooklet
Mikro-Häkchen
Micro-gancho
Micro-crochet
Micro-uncino

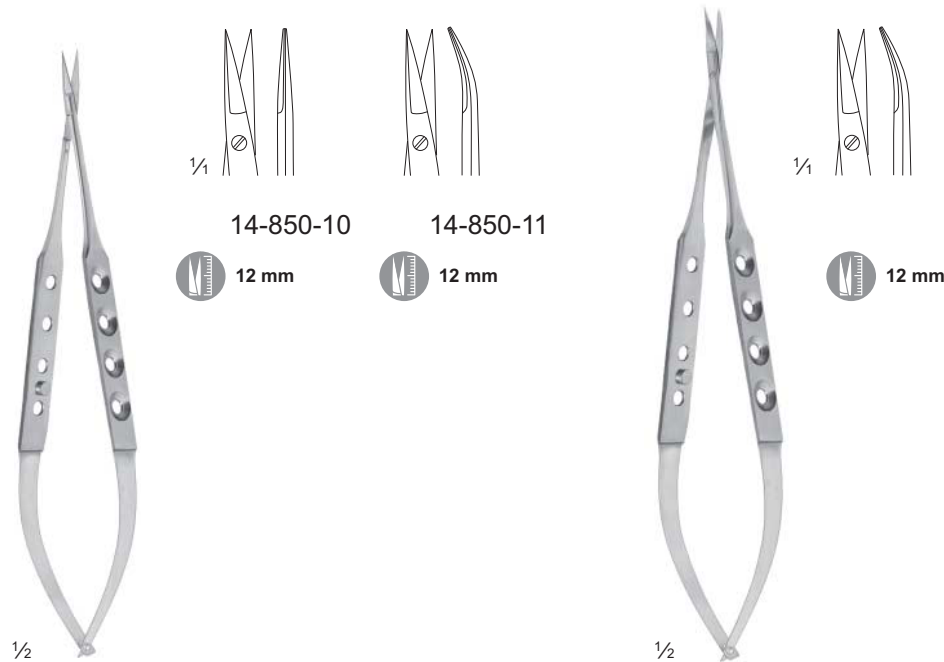
Frazier
14-835-13-
14-835-18

Micro Scissors
Mikro-Scheren
Micro-Tijeras
Micro-Ciseaux
Micro-Forbici



Vannas
14-850-01-
14-850-03
12 cm / 4 7/8"

Vannas
14-850-04-
14-850-05
16 cm / 6 2/8"

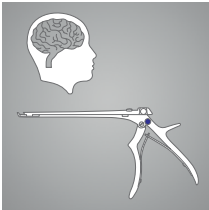


Millesi
14-850-10-
14-850-11
16 cm / 6 2/8"

Jacobson
14-850-15
18.5 cm / 7 2/8"

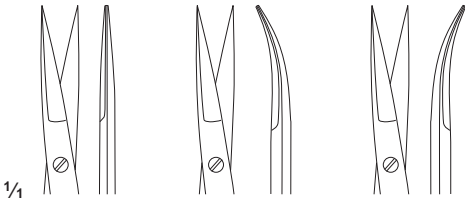
Micro Scissors
Mikro-Scheren
Micro-Tijeras
Micro-Ciseaux
Micro-Forbici

Neurosurgery
Neurochirurgie
Neurocirugía
Neurochirurgie
Neurochirurgia



1/2

Yasargil
14-850-20-
14-850-24

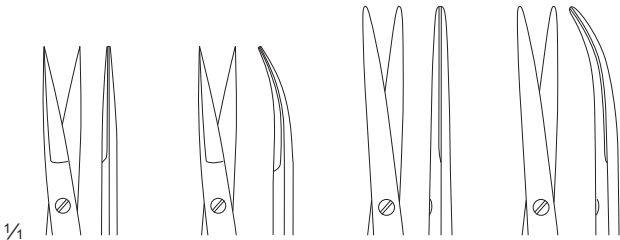


	15 mm	15 mm	15 mm
16.5 cm / 6 ⁵ / ₈ "	14-850-20	14-850-21	
20 cm / 7 ⁷ / ₈ "	14-850-22	14-850-23	14-850-24



1/2

Yasargil
14-850-25-
14-850-33

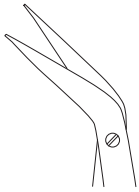


	A	A	D	D
	15 mm	15 mm		
20 cm / 7 ⁷ / ₈ "			14-850-30	14-850-31
22.5 cm / 8 ⁷ / ₈ "	14-850-25	14-850-26	14-850-33	14-850-32
24.5 cm / 9 ⁵ / ₈ "		14-850-28		

Micro Scissors
Mikro-Scheren
Micro-Tijeras
Micro-Ciseaux
Micro-Forbici



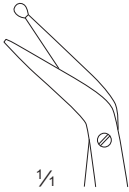
1/1



45°
14-850-40



14 mm

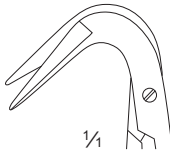


1/1

45°
14-850-41



14 mm



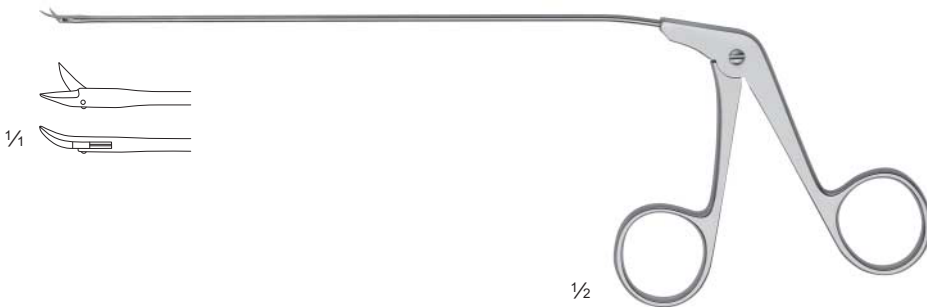
1/1

135°
14-850-42

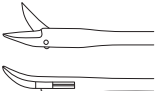


14 mm

Nagel
14-850-40-
14-850-42
20 cm / 7 7/8"

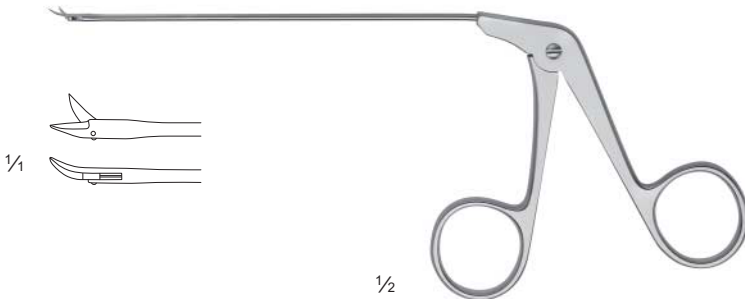


1/1

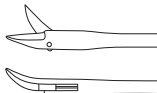


1/2

Fahlbusch
14-850-50
16.5 cm / 6 5/8"

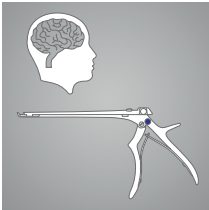


1/1



1/2

Caspar
14-850-60
11.5 cm / 4 1/8"



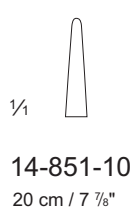
Jacobson
14-851-01
18 cm / 7 1/8"
w/o ratchet
ohne Sperre
sin trinquete
sans cran d'arrêt
senza arresto



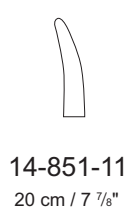
Jacobson
14-851-02
18 cm / 7 1/8"
with ratchet
mit Sperre
con trinquete
avec cran d'arrêt
con arresto



Yasargil
14-851-10-
14-851-13



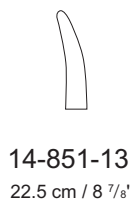
14-851-10
20 cm / 7 7/8"



14-851-11
20 cm / 7 7/8"

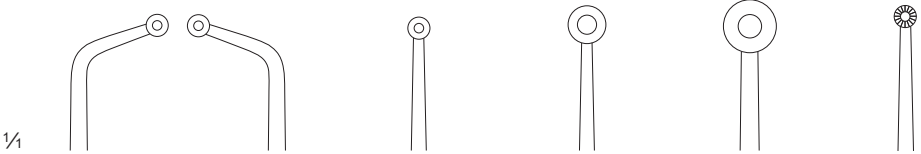


14-851-12
22.5 cm / 8 7/8"

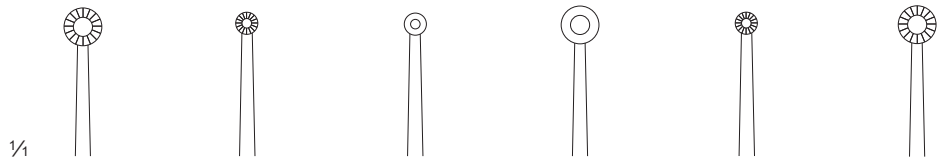


14-851-13
22.5 cm / 8 7/8"

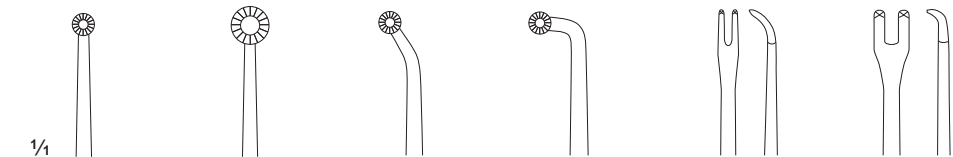
Micro Forceps
Mikro-Pinzetten
Micro-Pinzas
Micro-Pinces
Mikro-Pinze



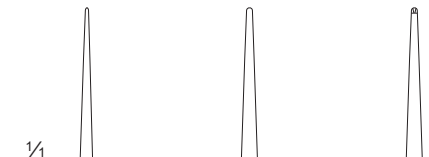
	Samil	Samil	Yasargil-Samil	Yasargil-Samil	Yasargil-Samil	Yasargil-smail
	3.0 m	3.0 mm	3.0 mm	5.0 mm	7.0 mm	3.0 mm
16.5 cm / 6 5/8"						14-852-20
23 cm / 9"	14-852-01	14-852-02				
24 cm / 9 5/8"			14-852-10	14-852-11	14-852-12	



	Yasargil	Yasargil	Yasargil	Yasargil	Yasargil	Yasargil
	5.0 mm	3.0 mm	3.0 mm	5.0 mm	3.0 mm	5.0 mm
16.5 cm / 6 5/8"	14-852-21					
20 cm / 7 7/8"		14-852-22				
22 cm / 8 5/8"			14-852-23	14-852-24	14-852-25	14-852-26



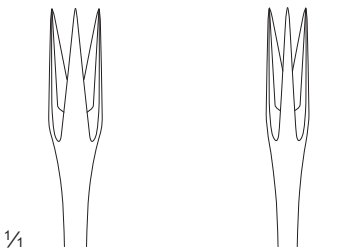
	Heifetz	Heifetz	Yasargil	Yasargil	Yasargil	Yasargil
			45°	90°		
	Ø 3.0 mm	Ø 5.0 mm	Ø 3.0 mm	Ø 3.0 mm	3.0 mm	5.0 mm
22 cm / 8 5/8"	14-852-30	14-852-31	14-852-40	14-852-41	14-852-50	14-852-51



	Yasargil	Yasargil	Yasargil
	0.6 mm	0.9 mm	
			1:2
18 cm / 7 1/8"	14-852-70	14-852-71	14-852-72
20 cm / 7 7/8"	14-852-73	14-852-74	
22 cm / 8 5/8"	14-852-75	14-852-76	
24 cm / 9 5/8"	14-852-77	14-852-78	



14-852-01 -
14-852-78



8 mm
14-853-01

5 mm
14-853-02

Yasargil
14-853-01-
14-853-02

20 cm / 7 7/8"
Tumor fork
Tumorgabel
Horquilla para tumor
Fourche à tumeurs
Forchetta per tumore

1/2



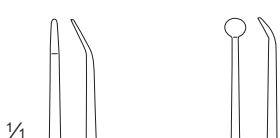
18 mm

with protection sleeve
mit Schutzhülse
con tapa de protección
avec écrou-chapeau
con copericho di protezione

14-853-03
18.5 cm / 7 3/8"

Tissue forceps
Gewebekrallen
Pinza para tejido
Pince à tissus
Pinze per tessuto

1/2

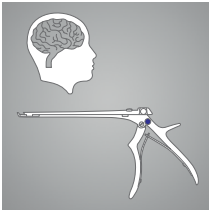


Ø	Samii	Samii
1.0 mm	14-854-01	
1.5 mm	14-854-02	14-854-09
2.0 mm	14-854-03	
2.5 mm	14-854-04	
3.0 mm	14-854-05	14-854-10
3.5 mm	14-854-06	
4.0 mm	14-854-07	
4.5 mm		14-854-11
5.0 mm	14-854-08	
6.0 mm		14-854-12

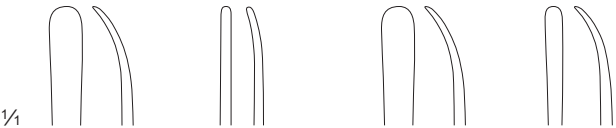
Samii
14-854-01-
14-854-12

23 cm / 9"
Tumor knife
Tumormesser
Bisturí para tumor
Couteau à tumeurs
Coltello per tumore

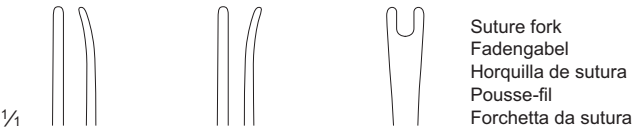
1/2



Caspar
14-856-01-
14-856-10
Micro dissector
Mikro-Dissektor
Micro-dissector
Micro-dissecteur
Micro-dissetto



	straight gerade recto droit diritto	straight gerade recto droit diritto	bayonet bajonett bayoneta baïonnette baionetta	bayonet bajonett bayoneta baïonnette baionetta
Ø	4.5 mm	1.0 mm	4.5 mm	2.0 mm
20 cm / 7 ⁷ / ₈ "		14-856-04		
23 cm / 9"	14-856-01		14-856-02	14-856-03

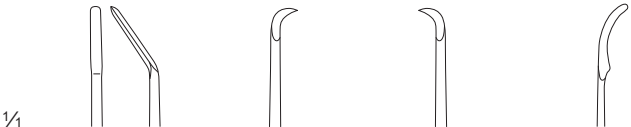


	bayonet bajonett bayoneta baïonnette baionetta	bayonet bajonett bayoneta baïonnette baionetta	bayonet bajonett bayoneta baïonnette baionetta	
Ø	1.0 mm	1.0 mm		
20 cm / 7 ⁷ / ₈ "	14-856-05	14-856-06		
23 cm / 9"			14-856-10	

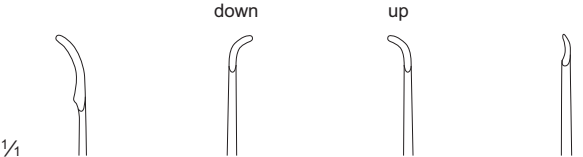
Suture fork
Fadengabel
Horquilla de sutura
Pousse-fil
Forchetta da sutura



Samii
14-858-01
Lancet knife
Lanzettenmesser
Cuchillo de lanceta
Couteau lancéolaire
Coltello lanceolato
Micro vascular knife
Mikrogefäßmesser
Micro-cuchillo vascular
Micro-couteau vasculaire
Micro-coltello vascolare



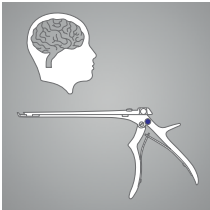
	straight gerade recto droit diritto	bayonet bajonett bayoneta baïonnette baionetta	bayonet bajonett bayoneta baïonnette baionetta	bayonet bajonett bayoneta baïonnette baionetta
Ø	Samii 1.8 mm	Koos	Koos	Koos
18.5 cm / 7 ² / ₈ "		14-858-10	14-858-11	14-858-12
23 cm / 9"	14-858-01			



	bayonet bajonett bayoneta baïonnette baionetta	bayonet bajonett bayoneta baïonnette baionetta	bayonet bajonett bayoneta baïonnette baionetta	straight gerade recto droit diritto
	Koos	Yasargil	Yasargil	Jacobson
18.5 cm / 7 ² / ₈ "	14-858-13	14-858-20	14-858-21	14-858-30

Micro Forceps
Mikro-Pinzetten
Micro-Pinzas
Micro-Pinces
Micro-Pinze

Neurosurgery
Neurochirurgie
Neurocirugía
Neurochirurgie
Neurochirurgia



1/2

Hunt
14-852-60-
14-852-61
20 cm / 7 7/8"



1/4

5 mm
14-852-60
angled
abgewinkelt
acodado
coudé
angolato

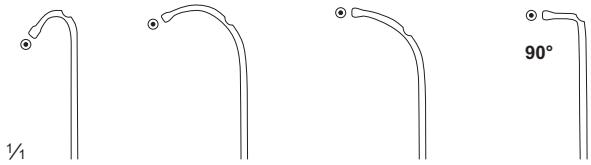


5 mm
14-852-61
bayonet
bajonett
bayoneta
baïonnette
baionetta

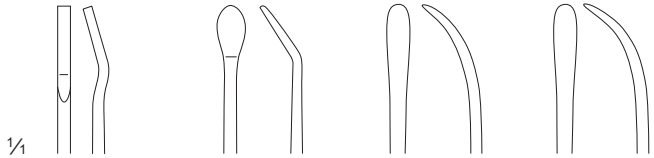


Yasargil
14-860-01-
14-860-04

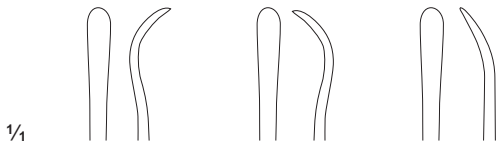
Suture guide
Fadenführer
Pinza porta-suturas
Pince guide-fil
Pinze porta-filo



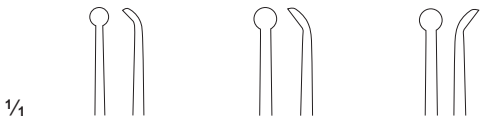
	curved gebogen curvo courbé curvo	curved gebogen curvo courbé curvo	curved gebogen curvo courbé curvo	curved gebogen curvo courbé curvo
Ø	1.5 mm	1.5 mm	1.5 mm	1.5 mm
18.5 cm / 7 ² / ₈ "	14-860-01	14-860-02	14-860-03	14-860-04



	straight gerade recto droit diritto	straight gerade recto droit diritto	straight gerade recto droit diritto	straight gerade recto droit diritto
	1.4 mm	4.0 mm	3.0 mm	3.9 mm
18.5 cm / 7 ² / ₈ "	14-862-01	14-862-02	14-862-03	14-862-04



	bayonet bajonett bayoneta baïonnette baionetta	bayonet bajonett bayoneta baïonnette baionetta	bayonet bajonett bayoneta baïonnette baionetta	
	3.0 mm	3.0 mm	3.0 mm	
18.5 cm / 7 ² / ₈ "	14-862-05	14-862-06	14-862-07	

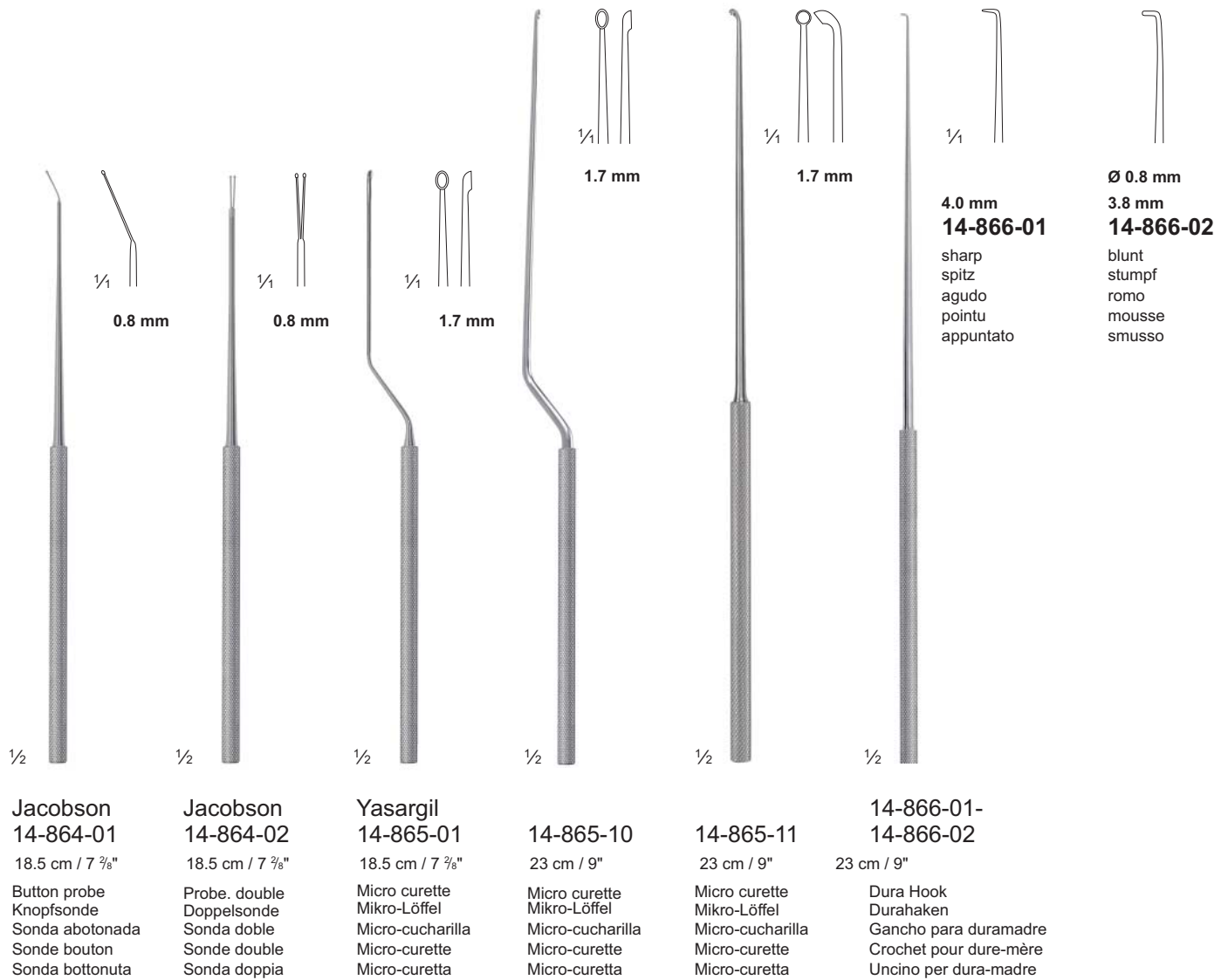


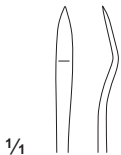
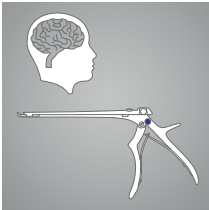
	straight gerade recto droit diritto	straight gerade recto droit diritto	bayonet bajonett bayoneta baïonnette baionetta	
	2.5 mm	3.0 mm	3.0 mm	
23 cm / 9"	14-862-10	14-862-11	14-862-20	



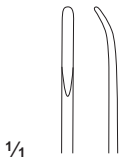
Yasargil
14-862-01-
14-862-20

Micro raspatory
Mikro-Raspatorium
Micro-raspador
Micro-raspatoire
Micro-raspatore





	straight gerade recto droit diritto
	2.6 mm
18.5 cm / 7 ² / ₈ "	14-863-01



	straight gerade recto droit diritto	straight gerade recto droit diritto	bayonet bajonett bayoneta baïonnette baionetta	bayonet bajonett bayoneta baïonnette baionetta
	2.2 mm	2.2 mm	2.2 mm	2.0 mm
23 cm / 9"	14-863-10	14-863-12	14-863-11	14-863-13

Yasargil
14-863-01-
14-863-13

Micro dissector
Mikro-Dissektor
Micro-disector
Micro-dissecteur
Micro-dissettore

Lamina Spreaders

Wirbelkörperspreizer

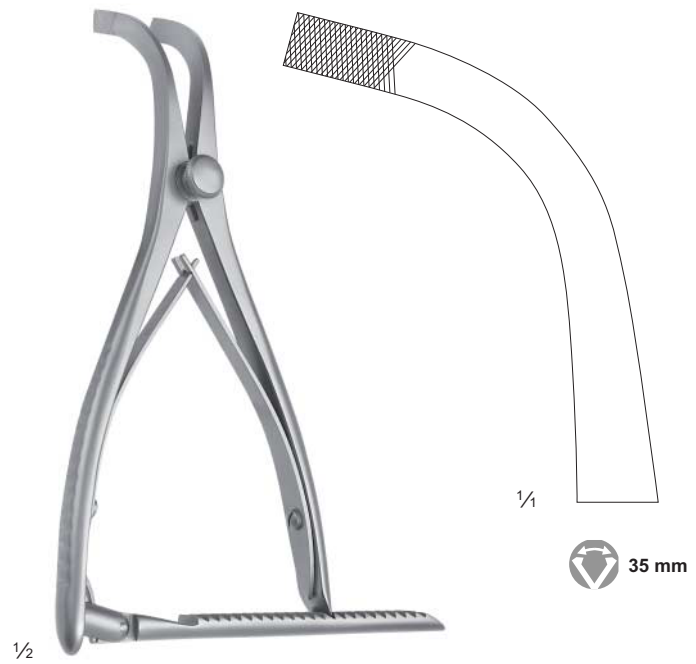
Separadores para cuerpos vertebrales

Ecarteurs pour corps vertébraux

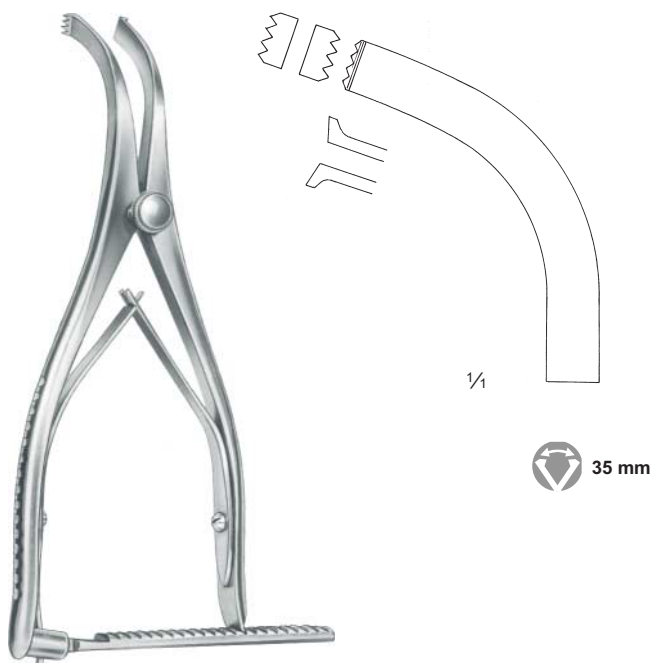
Separatori per vertebre



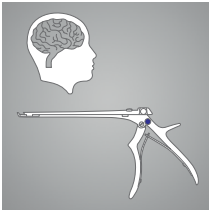
Cloward
14-973-16
16 cm / 6 2/8"



Cloward
14-974-17
16 cm / 6 2/8"

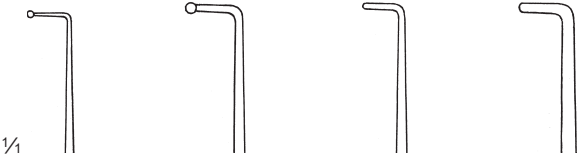


Inge
14-975-17
16 cm / 6 2/8"



1/2

14-940-01-
14-940-04
Micro hooklet
Mikro-Häkchen
Micro-gancho
Micro-crochet
Micro-uncino

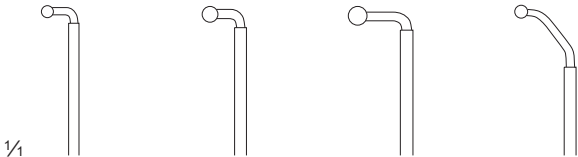


	Krayenbüh	Krayenbü	Krayenbühl	Krayenbühl
Ø	0.6 mm	1.1 mm	0.6 mm	0.8 mm
	90°	90°	90°	90°
	3.3 mm	4.5 mm	3.2 mm	3.2 mm
19 cm / 7 1/8"	14-940-01	14-940-02	14-940-03	14-940-04



1/2

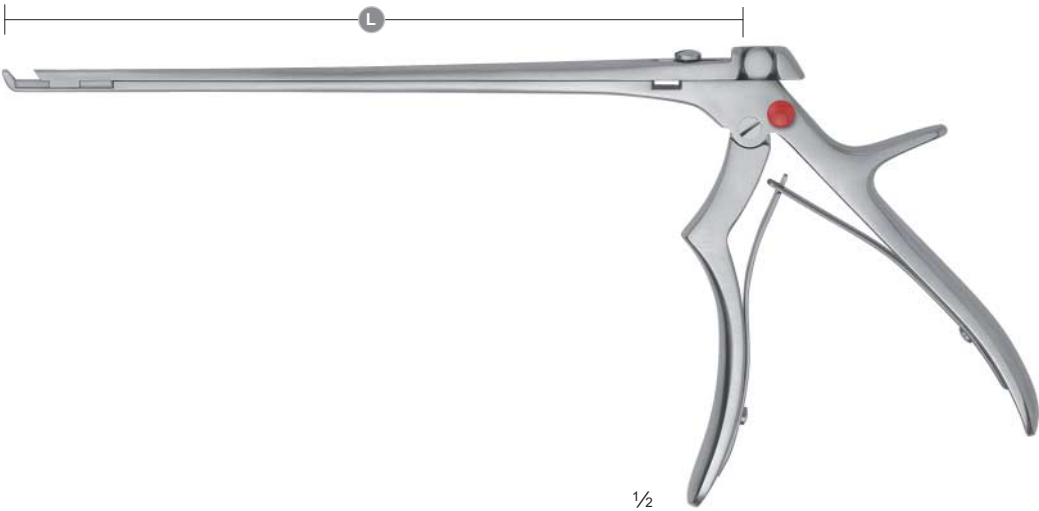
14-942-05-
14-942-11
Micro hooklet
Mikro-Häkchen
Micro-gancho
Micro-crochet
Micro-uncino



	Caspar	Caspar	Caspar	Caspar
Ø	1.8 mm	2.0 mm	2.5 mm	1.8 mm
	90°	90°	90°	45°
	5 mm	7 mm	9 mm	11 mm
24.5 cm / 9 3/8"	14-942-05	14-942-07	14-942-09	14-942-11



Laminectomy Punches
Laminektomiestanzen
Pinzas cortantes para laminectomía
Pincas emporte-pièces à laminectomie
Pinze taglienti per laminectomia



Ferris-Smith-Kerrison
14-978-01-
14-978-48

Punch, with ejector, detachable
Stanze mit Auswerfer, zerlegbar
Perforador con eyector, desmontable
Perforateur avec éjecteur, démontable
Pinze taglienti con espulsore, smontabile

Jaw width Maulbreite Anchura de la boca Largeur de mors Larghezza della bocca		40° cutting upward aufwärts schneidend corte arriba tranchant vers le haut tagliente verso l'alto					90° cutting upward aufwärts schneidend corte arriba tranchant vers le haut tagliente verso l'alto			
		L	18 cm	20 cm	23 cm	28 cm	18 cm	20 cm	23 cm	28 cm
1 mm		St	14-978-01	14-978-03	14-978-05	14-978-14	14-978-02	14-978-04	14-978-06	14-978-08
		SB	14-978-01	14-978-03	14-978-05	14-978-14	14-978-02	14-978-04	14-978-06	14-978-08
2 mm		St	14-978-09	14-978-11	14-978-13	14-978-15	14-978-10	14-978-12	14-978-14	14-978-16
		SB	14-978-09	14-978-11	14-978-13	14-978-15	14-978-10	14-978-12	14-978-14	14-978-16
3 mm		St	14-978-17	14-978-19	14-978-21	14-978-23	14-978-18	14-978-20	14-978-22	14-978-24
		SB	14-978-17	14-978-19	14-978-21	14-978-23	14-978-18	14-978-20	14-978-22	14-978-24
4 mm		St	14-978-25	14-978-27	14-978-29	14-978-31	14-978-26	14-978-28	14-978-30	14-978-32
		SB	14-978-25	14-978-27	14-978-29	14-978-31	14-978-26	14-978-28	14-978-30	14-978-32
5 mm		St	14-978-33	14-978-35	14-978-37	14-978-39	14-978-34	14-978-36	14-978-38	14-978-40
		SB	14-978-33	14-978-35	14-978-37	14-978-39	14-978-34	14-978-36	14-978-38	14-978-40
6 mm		St	14-978-41	14-978-43	14-978-45	14-978-47	14-978-42	14-978-44	14-978-46	14-978-48
		SB	14-978-41	14-978-43	14-978-45	14-978-47	14-978-42	14-978-44	14-978-46	14-978-48

Lamina Spreaders

Wirbelkörperspreizer

Separadores para cuerpos vertebrales

Ecarteurs pour corps vertébraux

Separatori per vertebre

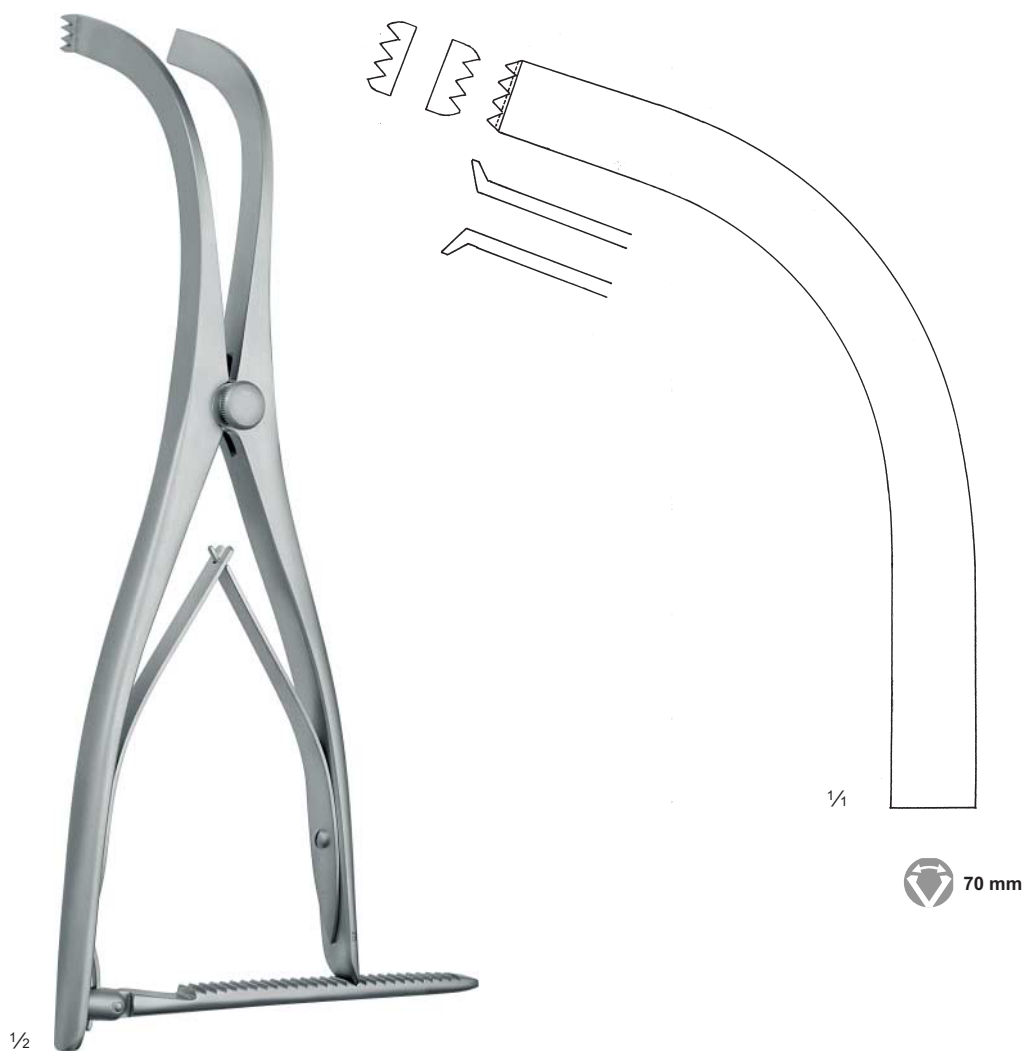
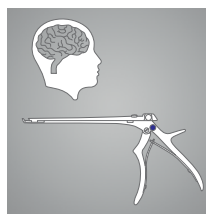
Neurosurgery

Neurochirurgie

Neurocirugía

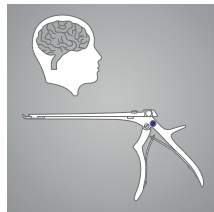
Neurochirurgie

Neurochirurgia

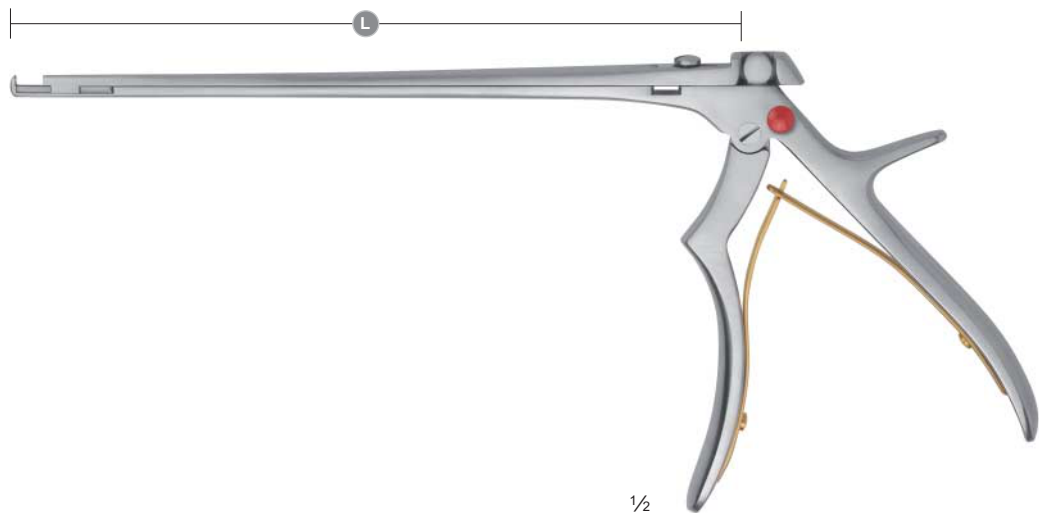


Inge
14-977-27
25.5 cm / 10 "

14



Laminectomy Punches
Laminektomiestanzen
Pinzas cortantes para laminectomía
Pincas emporte-pièces à laminectomie
Pinze taglienti per laminectomia



Ferris-Smith-Kerrison
14-979-01-
14-979-48

Punch, with ejector, detachable, **thin plate**
Stanze mit Auswerfer, zerlegbar, **dünne Platte**
Perforador con eyector, desmontable, **placa delgada**
Perforateur avec éjecteur, démontable, **plaque mince**
Pinze taglienti con espulsore, smontabile, **piastra sottile**

Jaw width Maulbreite Anchura de la boca Largeur de mors Larghezza della bocca		40° cutting upward aufwärts schneidend corte arriba tranchant vers le haut tagliente verso l'alto					90° cutting upward aufwärts schneidend corte arriba tranchant vers le haut tagliente verso l'alto			
		L	18 cm	20 cm	23 cm	28 cm	18 cm	20 cm	23 cm	28 cm
1 mm		St	14-979-01	14-979-03	14-979-05	14-979-07	14-979-02	14-979-04	14-979-06	14-979-08
		SB	14-979-01	14-979-03	14-979-05	14-979-14	14-979-02	14-979-04	14-979-06	14-979-08
2 mm		St	14-979-09	14-979-11	14-979-13	14-979-15	14-979-10	14-979-12	14-979-14	14-979-16
		SB	14-979-09	14-979-11	14-979-13	14-979-15	14-979-10	14-979-12	14-979-14	14-979-16
3 mm		St	14-979-17	14-979-19	14-979-21	14-979-23	14-979-18	14-979-20	14-979-22	14-979-24
		SB	14-979-17	14-979-19	14-979-21	14-979-23	14-979-18	14-979-20	14-979-22	14-979-24
4 mm		St	14-979-25	14-979-27	14-979-29	14-979-31	14-979-26	14-979-28	14-979-30	14-979-32
		SB	14-979-25	14-979-27	14-979-29	14-979-31	14-979-26	14-979-28	14-979-30	14-979-32
5 mm		St	14-979-33	14-979-35	14-979-37	14-979-39	14-979-34	14-979-36	14-979-38	14-979-40
		SB	14-979-33	14-979-35	14-979-37	14-979-39	14-979-34	14-979-36	14-979-38	14-979-40
6 mm		St	14-979-41	14-979-43	14-979-45	14-979-47	14-979-42	14-979-44	14-979-46	14-979-48
		SB	14-979-41	14-979-43	14-979-45	14-979-47	14-979-42	14-979-44	14-979-46	14-979-48

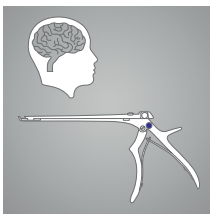
Laminectomy Punches
Laminektomiestanzen
Pinzas cortantes para laminectomía
Pinces emporte-pièces à laminectomie
Pinze taglienti per laminectomia



Ferris-Smith-Kerrison
14-978-90-
14-978-95

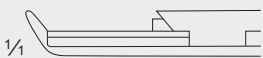
Punch, with ejector, detachable, **long stroke**
Stanze mit Auswerfer, zerlegbar, **Langhub**
Perforador con eyector, desmontable, **carrera larga**
Perforateur avec éjecteur, démontable, **course longue**
Pinze taglienti con espulsore, smontabile, **corsa lunga**

Jaw width Maulbreite Anchura de la boca Largeurde mors Larghezza della bocca		40° cutting upward aufwärts schneidend corte arriba tranchant vers le haut tagliente verso l'alto		
		L		
1 mm		St	14-978-90	
		SB	14-978-90	
2 mm		St	14-978-91	
		SB	14-978-91	
3 mm		St	14-978-92	
		SB	14-978-92	
4 mm		St	14-978-93	
		SB	14-978-93	
5 mm		St	14-978-94	
		SB	14-978-94	
6 mm		St	14-978-95	
		SB	14-978-95	

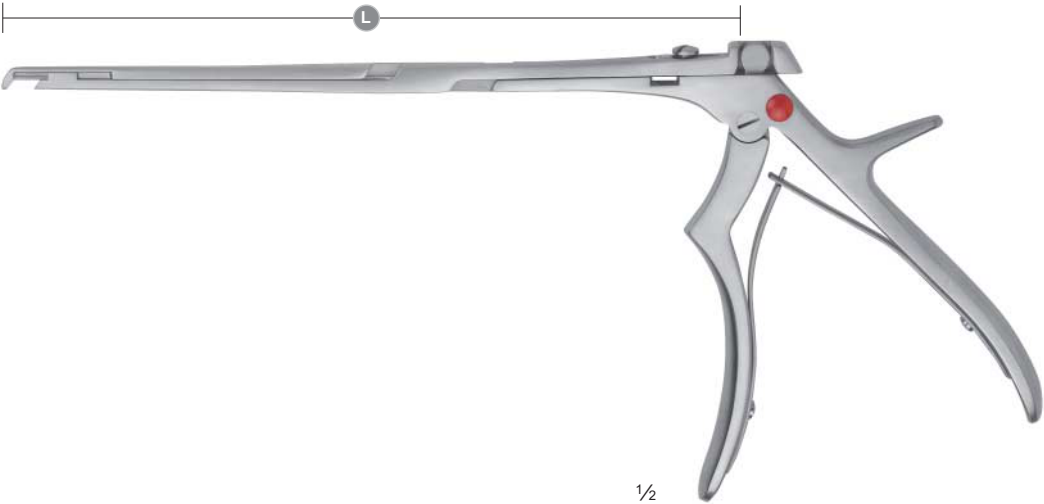


Ferris-Smith-Kerrison
14-979-70-
14-979-75

Punch, with ejector, detachable, **thin plate, long stroke**
Stanze mit Auswerfer, zerlegbar, **dünne Platte, Langhub**,
Perforador con eyector, desmontable, **placa delgada, carrera larga**
Perforateur avec éjecteur, démontable, **plaque mince, course longue**
Pinze taglianti con espulsore, smontabile, **piastra sottile, corsa lunga**

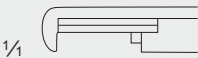
Jaw width Maulbreite Anchura de la boca Largeurde mors Larghezza della bocca		40° cutting upward aufwärts schneidend corte arriba tranchant vers le haut tagliante verso l'alto		
		L		
1 mm		St	14-979-70	
		SB	14-979-70	
2 mm		St	14-979-71	
		SB	14-979-71	
3 mm		St	14-979-72	
		SB	14-979-72	
4 mm		St	14-979-73	
		SB	14-979-73	
5 mm		St	14-979-74	
		SB	14-979-74	
6 mm		St	14-979-75	
		SB	14-979-75	

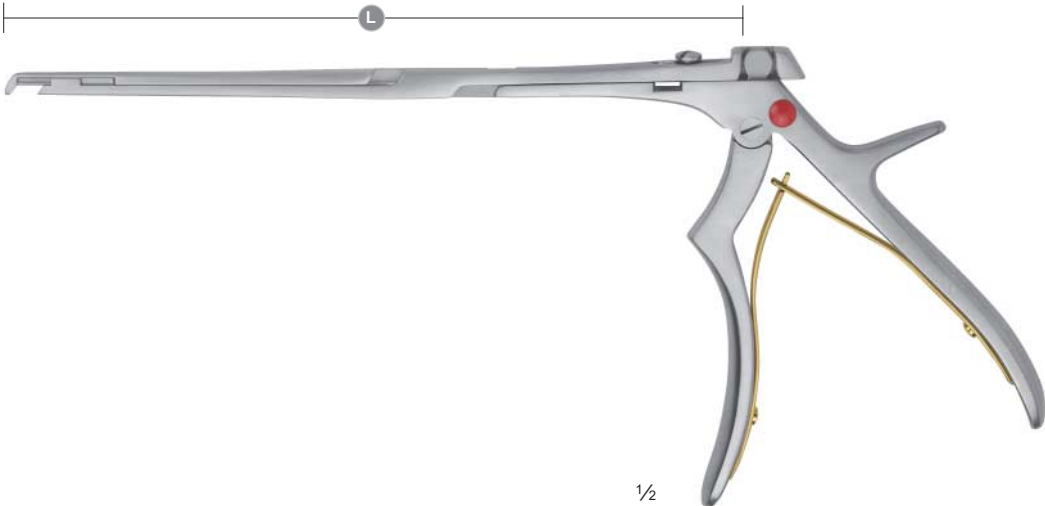
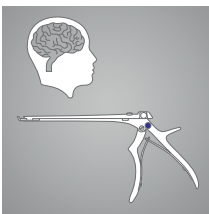
Laminectomy Punches
Laminektomiestanzen
Pinzas cortantes para laminectomía
Pinces emporte-pièces à laminectomie
Pinze taglianti per laminectomia



Ferris-Smith-Kerrison
14-978-50-
14-978-85

Punch, with ejector, detachable
Stanze mit Auswerfer, zerlegbar
Perforador con eyector, desmontable
Perforateur avec éjecteur, démontable
Pinze taglianti con espulsore, smontabile

Jaw width Maulbreite Anchura de la boca Largeur de mors Larghezza della bocca		40° cutting downward abwärts schneidend desmontable, corte abajo tranchant vers le bas tagliante verso il basso				90° cutting downward abwärts schneidend desmontable, corte abajo tranchant vers le bas tagliante verso il basso			
									
1 mm			18 cm	20 cm	23 cm	18 cm	20 cm	23 cm	
			14-978-50	14-978-52	14-978-54	14-978-51	14-978-53	14-978-55	
			14-978-50	14-978-52	14-978-54	14-978-51	14-978-53	14-978-55	
2 mm			14-978-56	14-978-58	14-978-60	14-978-57	14-978-59	14-978-61	
			14-978-56	14-978-58	14-978-60	14-978-57	14-978-59	14-978-61	
3 mm			14-978-62	14-978-64	14-978-66	14-978-63	14-978-65	14-978-67	
			14-978-62	14-978-64	14-978-66	14-978-63	14-978-65	14-978-67	
4 mm			14-978-68	14-978-70	14-978-72	14-978-69	14-978-71	14-978-73	
			14-978-68	14-978-70	14-978-72	14-978-69	14-978-71	14-978-73	
5 mm			14-978-74	14-978-76	14-978-78	14-978-75	14-978-77	14-978-79	
			14-978-74	14-978-76	14-978-78	14-978-75	14-978-77	14-978-79	
6 mm			14-978-80	14-978-82	14-978-84	14-978-81	14-978-83	14-978-85	
			14-978-80	14-978-82	14-978-84	14-978-81	14-978-83	14-978-85	

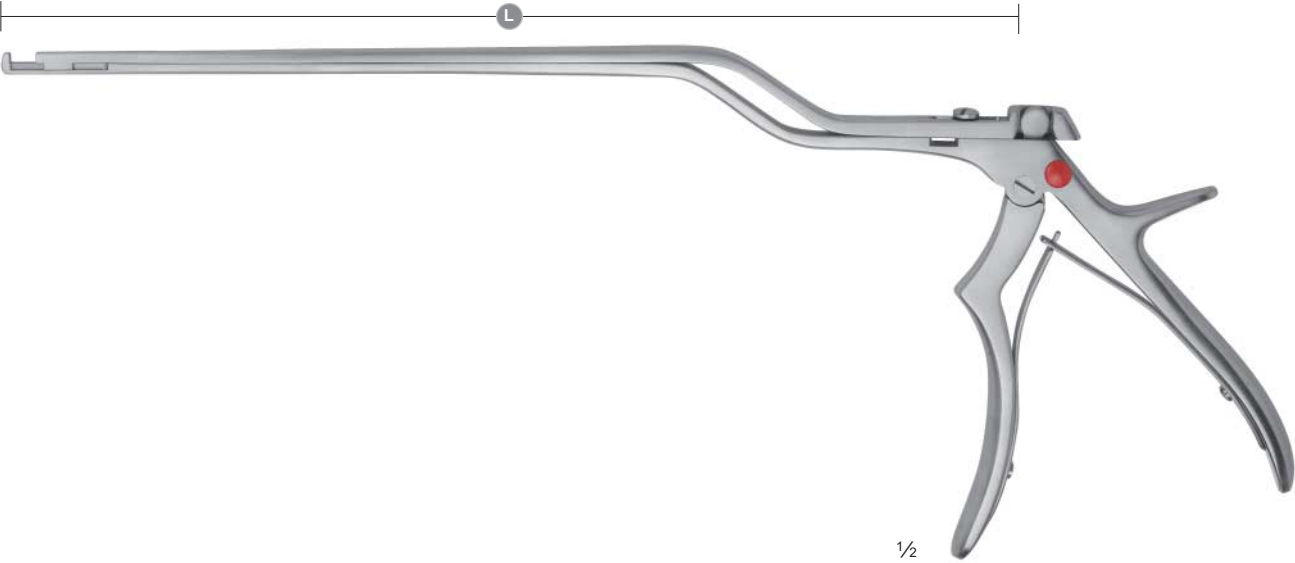


Ferris-Smith-Kerrison
14-979-85-
14-979-96

Punch, with ejector, detachable, **thin plate**
Stanze mit Auswerfer, zerlegbar, **dünne Platte**
Perforador con eyector, desmontable, **placa delgada**
Perforateur avec éjecteur, démontable, **plaque mince**
Pinze taglianti con espulsore, smontabile, **piastra sottile**

Jaw width Maulbreite Anchura de la boca Largeur de mors Larghezza della bocca		40° cutting downward abwärts schneidend desmontable, corte abajo tranchant vers le bas tagliante verso il basso		90° cutting downward abwärts schneidend desmontable, corte abajo tranchant vers le bas tagliante verso il basso	
					
		L	20 cm	L	20 cm
		St	14-979-85	St	14-979-91
		SB	14-979-85	SB	14-979-91
		St	14-979-86	St	14-979-92
		SB	14-979-86	SB	14-979-92
		St	14-979-87	St	14-979-93
		SB	14-979-87	SB	14-979-93
		St	14-979-88	St	14-979-94
		SB	14-979-88	SB	14-979-94
		St	14-979-89	St	14-979-95
		SB	14-979-89	SB	14-979-95
		St	14-979-90	St	14-979-96
		SB	14-979-90	SB	14-979-96

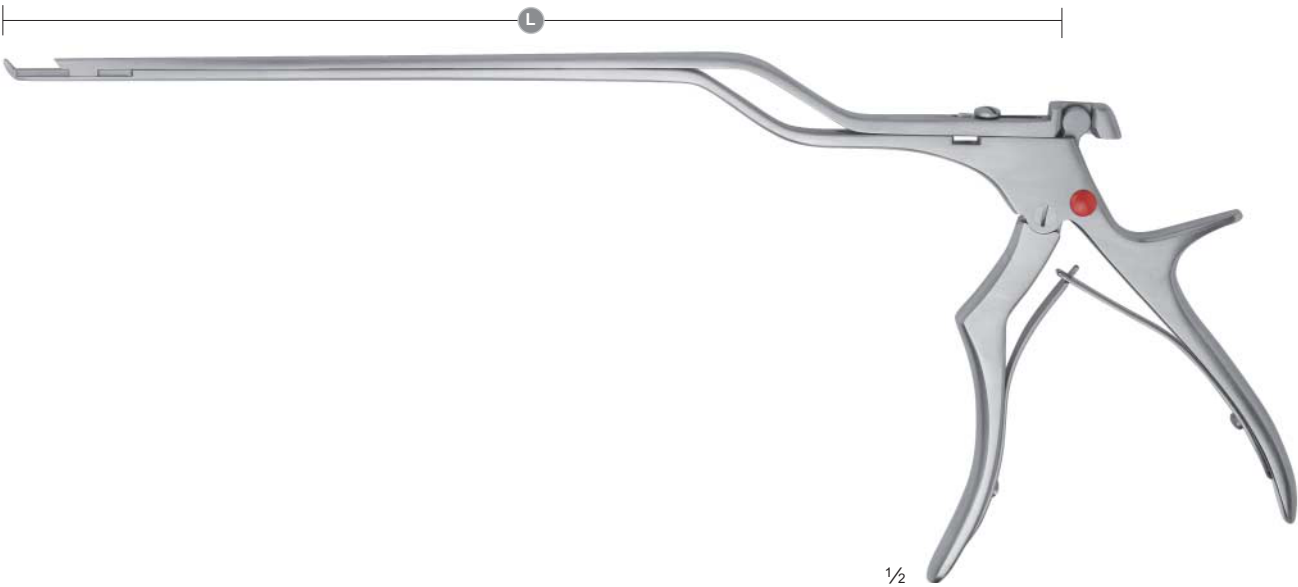
Laminectomy Punches
Laminektomiestanzen
Pinzas cortantes para laminectomía
Pinces emporte-pièces à laminectomie
Pinze taglienti per laminectomia



Ferris-Smith-Kerrison
14-980-01-
14-980-20
Punch, with ejector, detachable
Stanze mit Auswerfer, zerlegbar
Perforadorcon eyector, desmontable
Perforateur avec éjecteur, démontable
Pinze taglienti con espulsore, smontabile

Jaw width Maulbreite Anchura de la boca Largeurde mors Larghezza della bocca		40° cutting upward, bayonet aufwärts schneidend, bajonett corte arriba, bayoneta tranchant vers le haut, baïonnette 1/4 tagliente verso l'alto, baionetta		90° cutting upward, bayonet aufwärts schneidend, bajonett corte arriba, bayoneta tranchant vers le haut, baïonnette 1/4 tagliente verso l'alto, baionetta			
		 L	15 cm	18 cm	 L	15 cm	18 cm
1 mm		 St	14-980-01	14-980-03	 St	14-980-02	14-980-04
		 SB	14-980-01	14-980-03	 SB	14-980-02	14-980-04
2 mm		 St	14-980-05	14-980-14	 St	14-980-06	14-980-08
		 SB	14-980-05	14-980-14	 SB	14-980-06	14-980-08
3 mm		 St	14-980-09	14-980-11	 St	14-980-10	14-980-12
		 SB	14-980-09	14-980-11	 SB	14-980-10	14-980-12
4 mm		 St	14-980-13	14-980-15	 St	14-980-14	14-980-16
		 SB	14-980-13	14-980-15	 SB	14-980-14	14-980-16
5 mm		 St	14-980-17	14-980-19	 St	14-980-18	14-980-20
		 SB	14-980-17	14-980-19	 SB	14-980-18	14-980-20

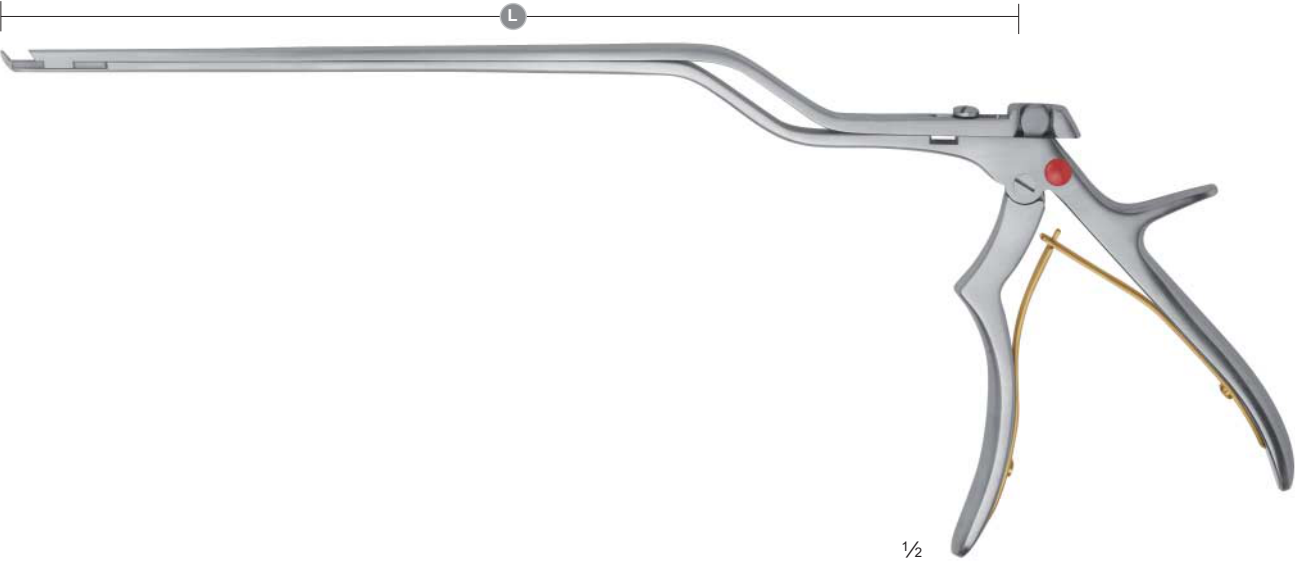
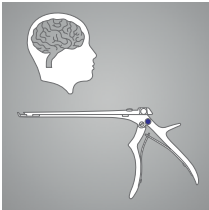
Laminectomy Punches
Laminektomiestanzen
Pinzas cortantes para laminectomía
Pinces emporte-pièces à laminectomie
Pinze taglienti per laminectomia



Ferris-Smith-Kerrison
14-980-21-
14-980-25

Punch, with ejector, detachable, **long stroke**
Stanze mit Auswerfer, zerlegbar, **Langhub**
Perforador con eyector, desmontable, **carrera larga**
Perforateur avec éjecteur, démontable, **course longue**
Pinze taglienti con espulsore, smontabile, **corsa lunga**

Jaw width Maulbreite Anchura de la boca Largeur de mors Larghezza della bocca		40° cutting upward, bayonet aufwärts schneidend, bajonett corte arriba, bayoneta tranchant vers le haut, baïonnette tagliente verso l'alto, baionetta	
1 mm		L	18 cm
		St	14-980-21
		SB	14-980-21
2 mm		St	14-980-22
		SB	14-980-22
3 mm		St	14-980-23
		SB	14-980-23
4 mm		St	14-980-14
		SB	14-980-14
5 mm		St	14-980-25
		SB	14-980-25

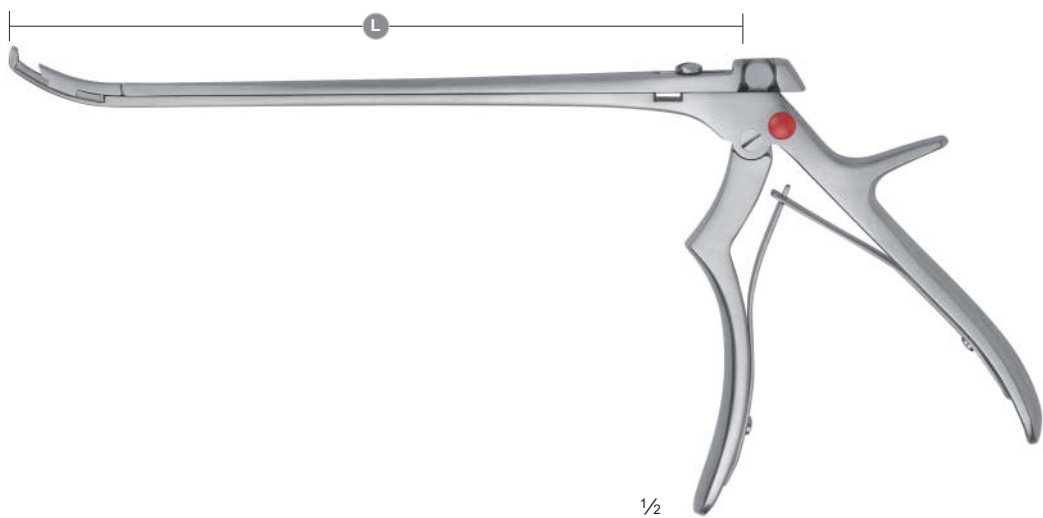


Ferris-Smith-Kerrison
14-979-50-
14-979-69

Punch, with ejector, detachable, **thin plate**
Stanze mit Auswerfer, zerlegbar, **dünne Platte**
Perforador con eyector, desmontable **placa delgada**
Perforateur avec éjecteur, démontable **plaque mince**
Pinze taglienti con espulsore, smontabile **piastra sottile**

Jaw width Maulbreite Anchura de la boca Largeur de mors Larghezza della bocca		40° cutting upward, bayonet aufwärts schneidend, bajonett corte arriba, bayoneta tranchant vers le haut, baïonnette 1/1		90° cutting upward, bayonet aufwärts schneidend, bajonett corte arriba, bayoneta tranchant vers le haut, baïonnette 1/1		
						
1 mm		L	15 cm	18 cm		
		St	14-979-50	14-979-52	14-979-51	14-979-53
		SB	14-979-50	14-979-52	14-979-51	14-979-53
2 mm		St	14-979-54	14-979-56	14-979-55	14-979-57
		SB	14-979-54	14-979-56	14-979-55	14-979-57
3 mm		St	14-979-58	14-979-60	14-979-59	14-979-61
		SB	14-979-58	14-979-60	14-979-59	14-979-61
4 mm		St	14-979-62	14-979-64	14-979-63	14-979-65
		SB	14-979-62	14-979-64	14-979-63	14-979-65
5 mm		St	14-979-66	14-979-68	14-979-67	14-979-69
		SB	14-979-66	14-979-68	14-979-67	14-979-69

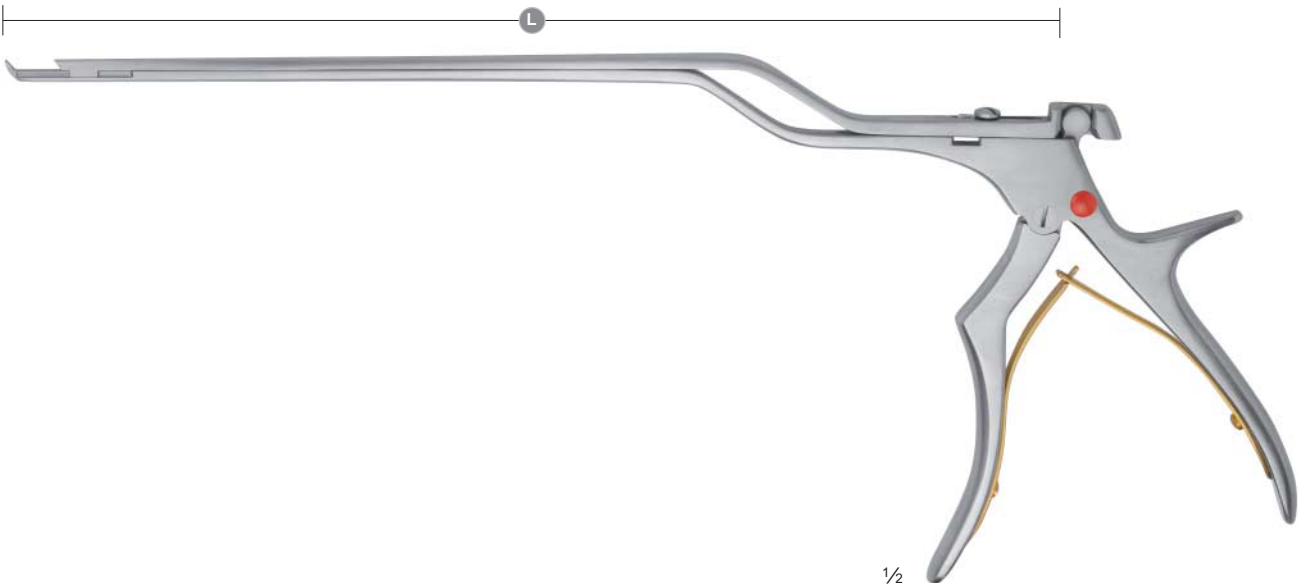
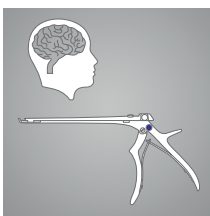
Laminectomy Punches
Laminektomiestanzen
Pinzas cortantes para laminectomía
Pinces emporte-pièces à laminectomie
Pinze taglianti per laminectomia



Ferris-Smith-Kerrison
14-980-30-
14-980-44

Punch, with ejector, detachable
Stanze mit Auswerfer, zerlegbar
Perforador con eyector, desmontable
Perforateur avec éjecteur, démontable
Pinze taglianti con espulsore, smontabile

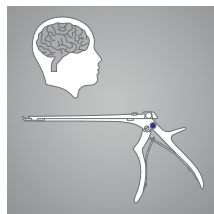
Jaw width Maulbreite Anchura de la boca Largeur de mors Larghezza della bocca		40° curved upward aufwärts gebogen curvo arriba coudé vers le haut curva verso l'alto		40° curved leftwards links gebogen curvo izquierda coudé à gauche curva a sinistra		0° curved rightwards rechts gebogen curvo der echs coudé à droite curva a d estra	
1 mm		L	20 cm	20 cm	20 cm		
		St	14-980-30	14-980-31	14-98 0-32		
		SB	14-980-30	14-980-31	14-98 0-32		
2 mm		St	14-980-33	14-980-34	14-98 0-35		
		SB	14-980-33	14-980-34	14-98 0-35		
3 mm		St	14-980-36	14-980-37	14-98 0-38		
		SB	14-980-36	14-980-37	14-98 0-38		
4 mm		St	14-980-39	14-980-40	14-98 0-41		
		SB	14-980-39	14-980-40	14-98 0-41		
5 mm		St	14-980-42	14-980-43	14-98 0-44		
		SB	14-980-42	14-980-43	14-98 0-44		



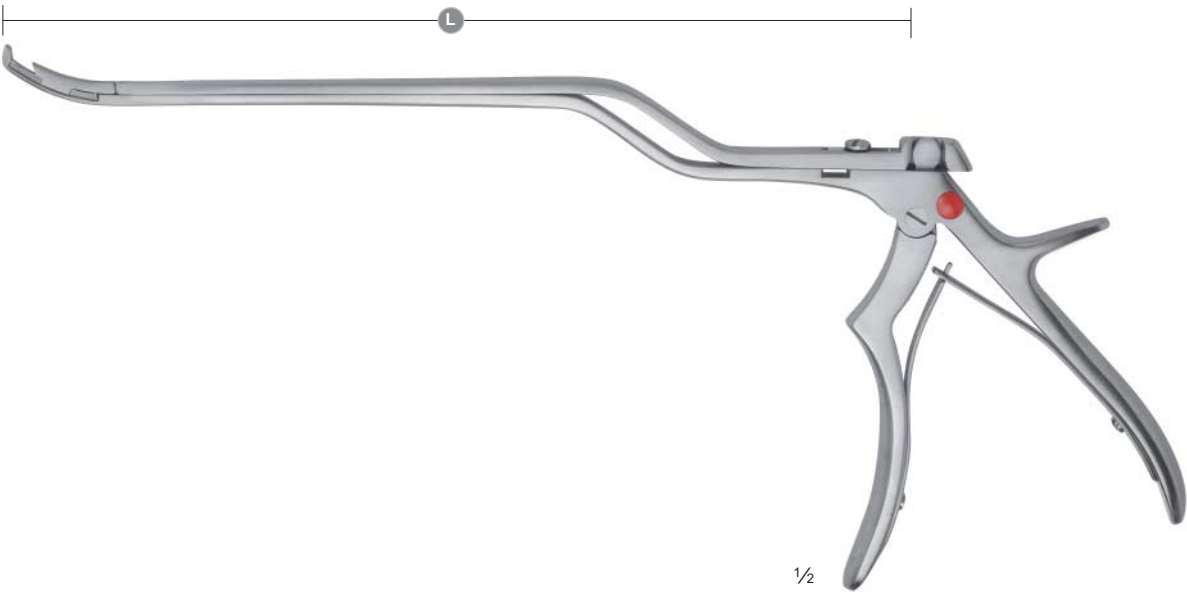
Ferris-Smith-Kerrison
14-979-80-
14-979-84

Punch, with ejector, detachable, **long stroke, thin plate**
Stanze mit Auswerfer, zerlegbar, **Langhub, dünne Platte**
Perforador con eyector, desmontable, **carrera larga, placa delgada**
Perforateur avec éjecteur, démontable, **course longue, plaque mince**
Pinze taglianti con espulsore, smontabile, **corsa lunga, piastra sottile**

Jaw width Maulbreite Anchura de la boca Largeurde mors Larghezza della bocca		40° cutting upward, bayonet aufwärts schneidend, bajonett corte arriba, bayoneta tranchant vers le haut, baïonnette tagliante verso l'alto, baionetta	
1 mm		L	18 cm
		St	14-979-80
		SB	14-979-80
2 mm		St	14-979-81
		SB	14-979-81
3 mm		St	14-979-82
		SB	14-979-82
4 mm		St	14-979-83
		SB	14-979-83
5 mm		St	14-979-84
		SB	14-979-84

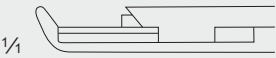


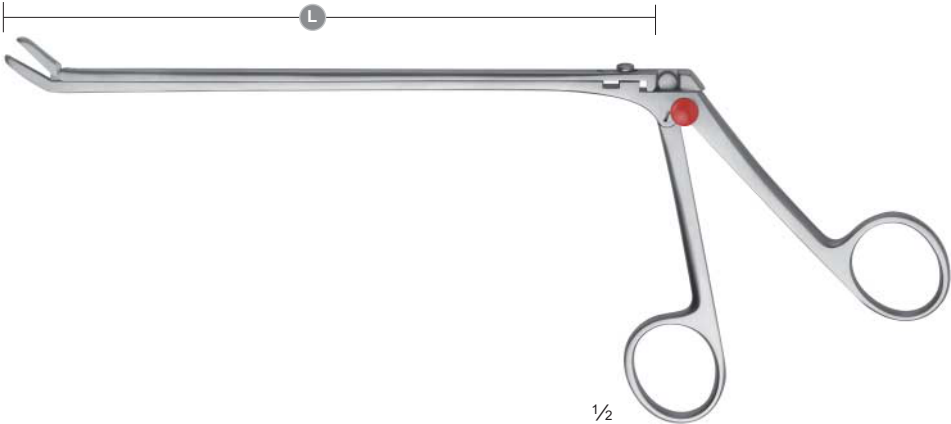
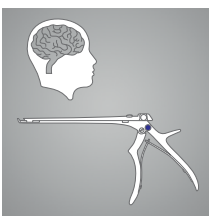
Laminectomy Punches
Laminektomiestanzen
Pinzas cortantes para laminectomía
Pincas emporte-pièces à laminectomie
Pinze taglienti per laminectomia



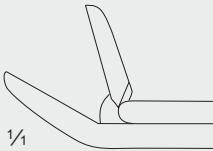
**Ferris-Smith-Kerrison
14-980-50**

Punch, with ejector, detachable
Stanze mit Auswerfer, zerlegbar
Perforador con eyector, desmontable
Perforateur avec éjecteur, démontable
Pinze taglienti con espulsore, smontabile

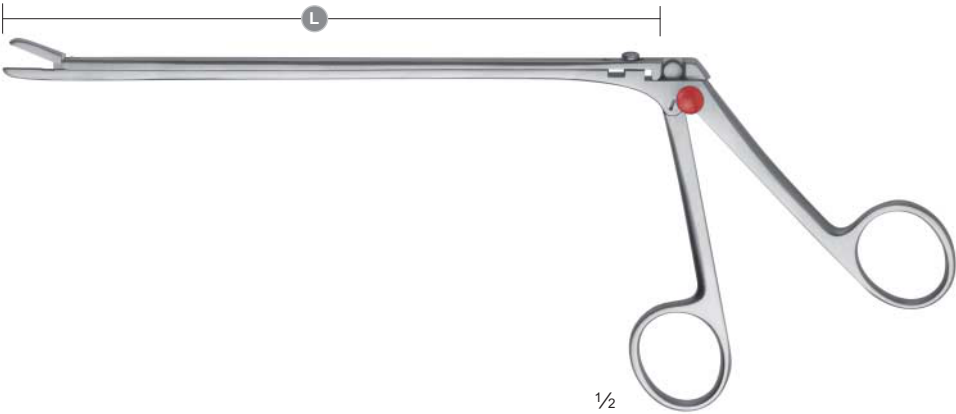
Jaw width Maulbreite Anchura de la boca Largeur de mors Larghezza della bocca	40° curved, bayonet gebogen, bajonett curvo, bayoneta coudé, baïonnette curva, baionetta		
	3 mm		
L		18 cm	
St		14-980-50	



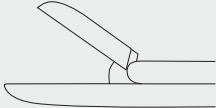
Caspar
14-981-25 -
14-981-40
detachable
zerlegbar
desmontable
démontable
smontabile

Jaw width Maulbreite Anchura de la boca Largeur de mors Larghezza della bocca		30° angled upward aufgewinkelt acodado arrib angulé vers le haut angolato verso l'alto				
						
		L	15 cm	18 cm	20 cm	30 cm
2 mm		St	14-981-25	14-981-29	14-981-33	14-981-37
		SB	14-981-25	14-981-29	14-981-33	14-981-37
3 mm		St	14-981-26	14-981-30	14-981-34	14-981-38
		SB	14-981-26	14-981-30	14-981-34	14-981-38
4 mm		St	14-981-27	14-981-31	14-981-35	14-981-39
		SB	14-981-27	14-981-31	14-981-35	14-981-39
5 mm		St	14-981-28	14-981-32	14-981-36	14-981-40
		SB	14-981-28	14-981-32	14-981-36	14-981-40

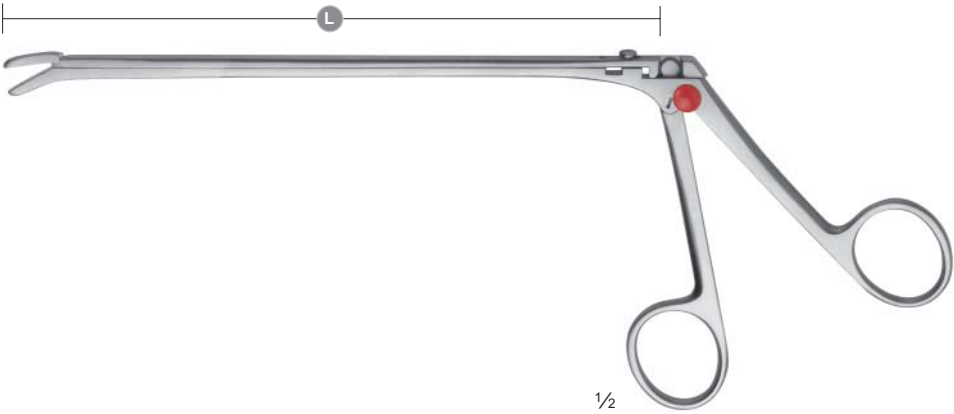
Rongeurs
Rongeur
Pinzas cortantes
Rongeurs
Pinze per afferrare



Caspar
14-981-05 -
14-981-20
detachable
zerlegbar
desmontable
démontable
smontabile

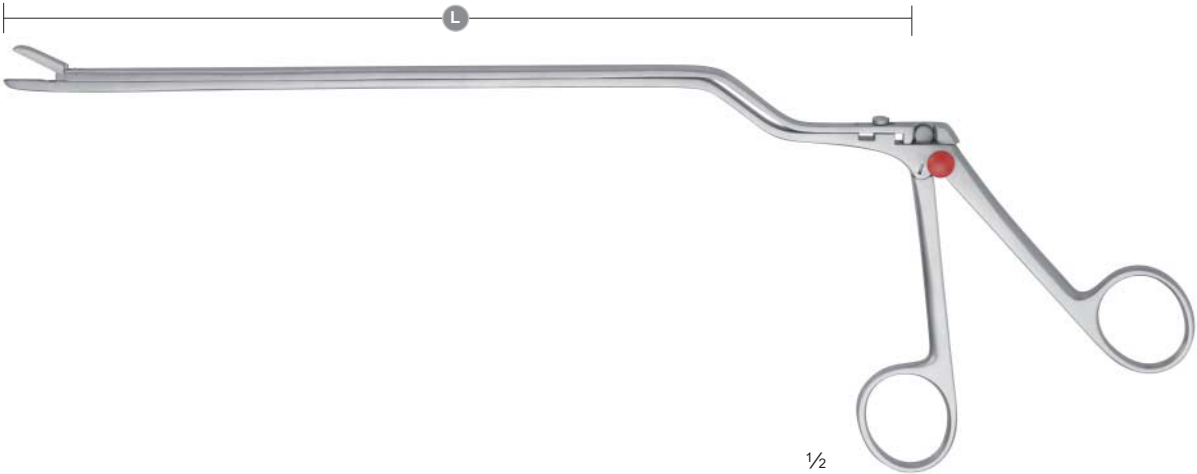
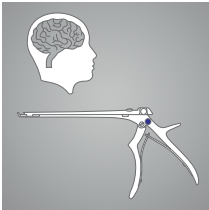
Jaw width Maulbreite Anchura de la boca Largeur mors Larghezza della bocca		straight gerade recto droit diritto					
2 mm		L	15 cm	18 cm	20 cm	30 cm	
		St	14-981-05	14-981-09	14-981-13	14-981-17	
		SB	14-981-05	14-981-09	14-981-13	14-981-17	
3 mm		St	14-981-06	14-981-10	14-981-14	14-981-18	
		SB	14-981-06	14-981-10	14-981-14	14-981-18	
4 mm		St	14-981-10	14-981-11	14-981-15	14-981-19	
		SB	14-981-10	14-981-11	14-981-15	14-981-19	
5 mm		St	14-981-08	14-981-12	14-981-16	14-981-20	
		SB	14-981-08	14-981-12	14-981-16	14-981-20	

Rongeurs
Rongeur
Pinzas cortantes
Rongeurs
Pinze per afferrare



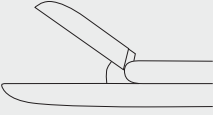
Caspar
14-981-45 -
14-981-60
zerlegbar
detachable
desmontable
démontable
smontabile

Jaw width Maulbreite Anchura de la boca Largeur de mors Larghezza della bocca		30° angled downward abgewinkelt acodado abajo angulé vers le bas angolato verso il basso				
		1/1				
		L	15 cm	18 cm	20 cm	30 cm
2 mm		St	14-981-45	14-981-49	14-981-53	14-981-57
		SB	14-981-45	14-981-49	14-981-53	14-981-57
3 mm		St	14-981-46	14-981-50	14-981-54	14-981-58
		SB	14-981-46	14-981-50	14-981-54	14-981-58
4 mm		St	14-981-47	14-981-51	14-981-55	14-981-59
		SB	14-981-47	14-981-51	14-981-55	14-981-59
5 mm		St	14-981-48	14-981-52	14-981-56	14-981-60
		SB	14-981-48	14-981-52	14-981-56	14-981-60



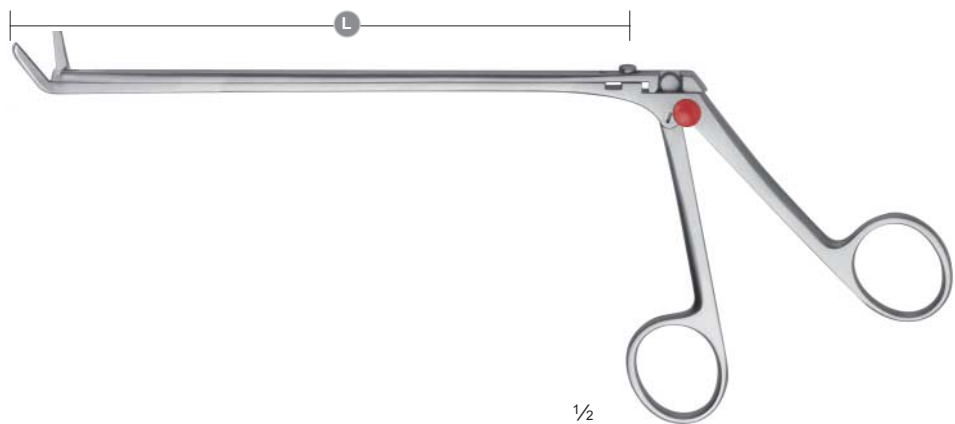
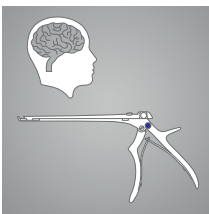
Caspar
14-981-61-
14-981-68

detachable
zerlegbar
desmontable
démontable
smontabile

Jaw width Maulbreite Anchura de la boca Largeurde mors Larghezza della bocca		straight, bayonet geraigt, bajonett recto, bayoneta droit, baïonnette diritto, baionetta		
		L	15 cm	18 cm
2 mm		St	14-981-61	14-981-65
		SB	14-981-61	14-981-65
3 mm		St	14-981-62	14-981-66
		SB	14-981-62	14-981-66
4 mm		St	14-981-63	14-981-67
		SB	14-981-63	14-981-67
5 mm		St	14-981-64	14-981-68
		SB	14-981-64	14-981-68

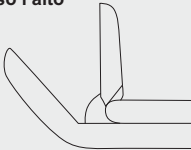
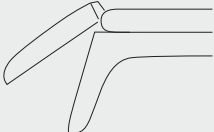
Rongeurs
Rongeur
Pinzas cortantes
Rongeurs
Pinze per afferrare

Neurosurgery
Neurochirurgie
Neurocirurgia
Neurochirurgie
Neurochirurgia

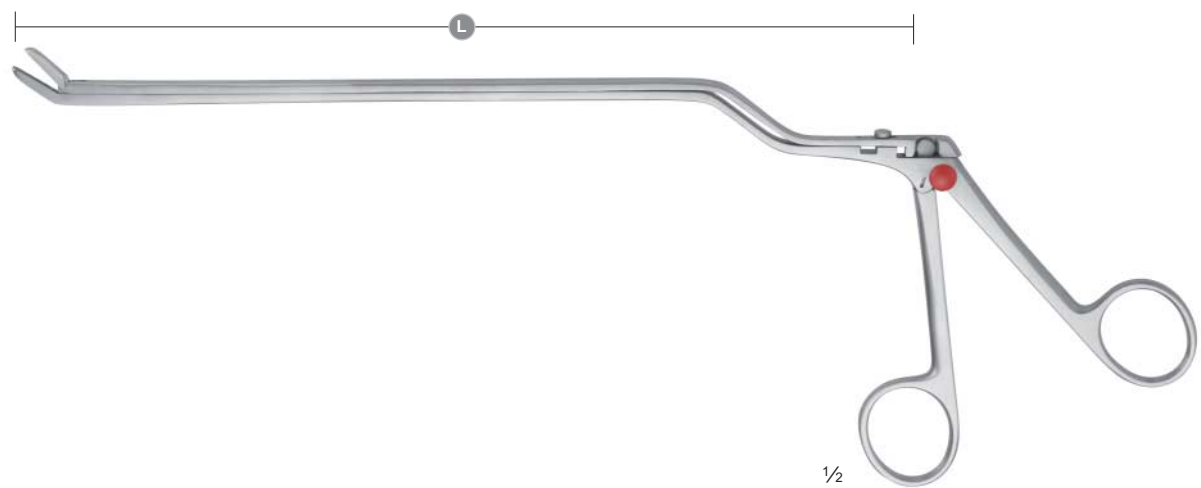


Caspar
14-981-80-
14-981-83

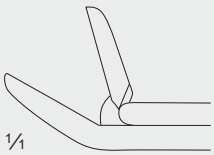
detachable
zerlegbar
desmontable
démontable
smontabile

Jaw width Maulbreite Anchura de la boca Largeurde mors Larghezza della bocca 4 mm 	50° angled upward aufgewinkelt acodado arrib angulé vers le haut angolato verso l'alto  1/1		50° angled downward abgewinkelt acodado abajo angulé vers le bas angolato verso il basso 		
	L	18 cm	30 cm	18 cm	30 cm
	St	14-981-80	14-981-81	14-981-82	14-981-83
	SB	14-981-80	14-981-81	14-981-82	14-981-83

Rongeurs
Rongeur
Pinzas cortantes
Rongeurs
Pinze per afferrare



Caspar
14-981-71-
14-981-78
detachable
zerlegbar
desmontable
démontable
smontabile

Jaw width Maulbreite Anchura de la boca Largeur de mors Larghezza della bocca		30° angled upward, bayonet aufgewinkelt, bajonett acodado arriba, bayoneta angulé vers le haut, baïonnette angolato verso l'alto, baionetta		
		L	15 cm	18 cm
2 mm		St	14-981-71	14-981-75
		SB	14-981-71	14-981-75
3 mm		St	14-981-72	14-981-76
		SB	14-981-72	14-981-76
4 mm		St	14-981-73	14-981-77
		SB	14-981-73	14-981-77
5 mm		St	14-981-74	14-981-78
		SB	14-981-74	14-981-78

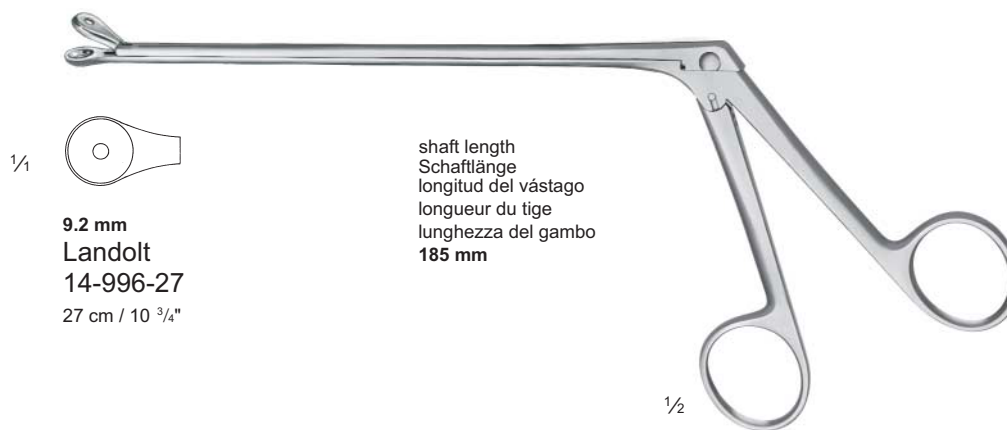
Laminectomy Rongeurs

Laminektomieezangen

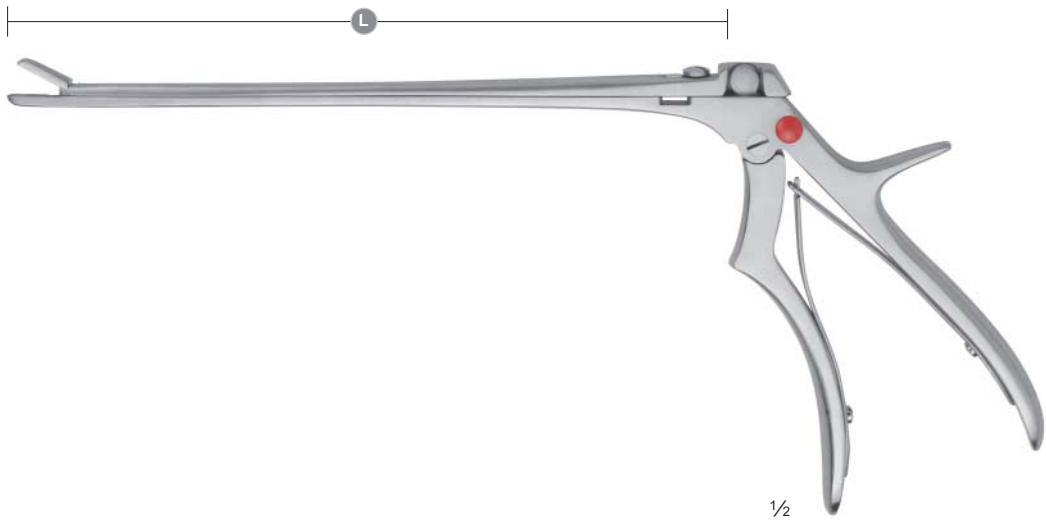
Pinzas para laminectomía

Pinces pour laminectomie

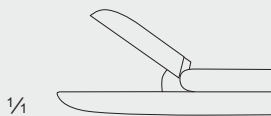
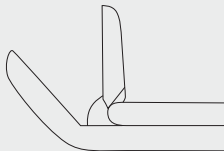
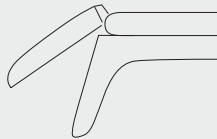
Pinze per laminectomia



Rongeurs
Rongeur
Pinzas cortantes
Rongeurs
Pinze per afferrare

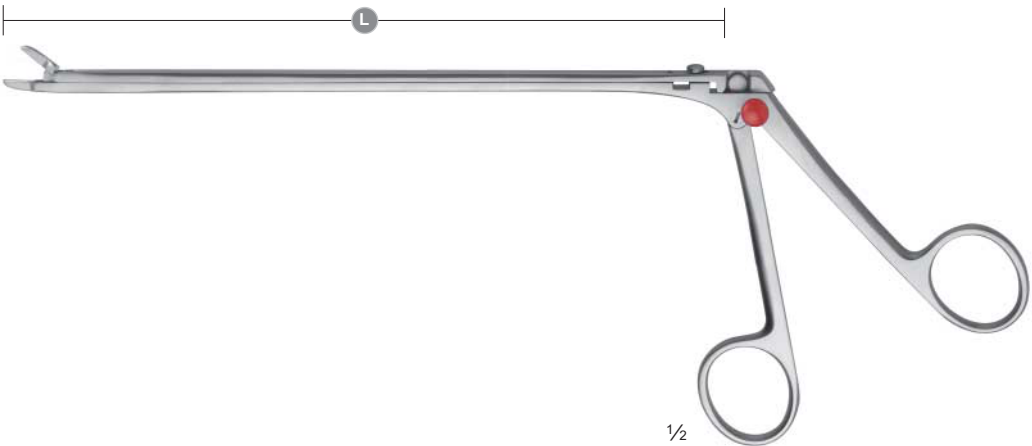
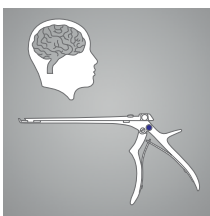


Wagner
14-981-91-
14-981-96
detachable, **strong model**
zerlegbar, **kräftig**
desmontable, **robusto**
démontable, **robuste**
smontabile, **robusto**

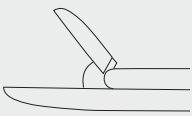
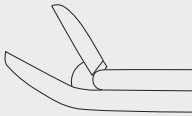
Jaw width Maulbreite Anchura de la boca Largeurde mors Larghezza della bocca		straight gerade recto droit diritto		30° angled upward aufgewinkelt acodado arrib angulé vers le haut angolato verso l'alto		30° angled downward abgewinkelt acodado abajo angulé vers le bas angolato verso il basso		
								
3 mm		L	20 cm	30 cm	20 cm	30 cm	20 cm	30 cm
		St	14-981-91	14-981-94				
		SB	14-981-91	14-981-94				
4 mm		St	14-981-92	14-981-95	14-981-84	14-981-85	14-981-86	14-981-87
		SB	14-981-92	14-981-95	14-981-84	14-981-85	14-981-86	14-981-87
5 mm		St	14-981-93	14-981-96				
		SB	14-981-93	14-981-96				

Rongeurs
Rongeur
Pinzas cortantes
Rongeurs
Pinze per afferrare

Neurosurgery
Neurochirurgie
Neurocirugía
Neurochirurgie
Neurochirurgia

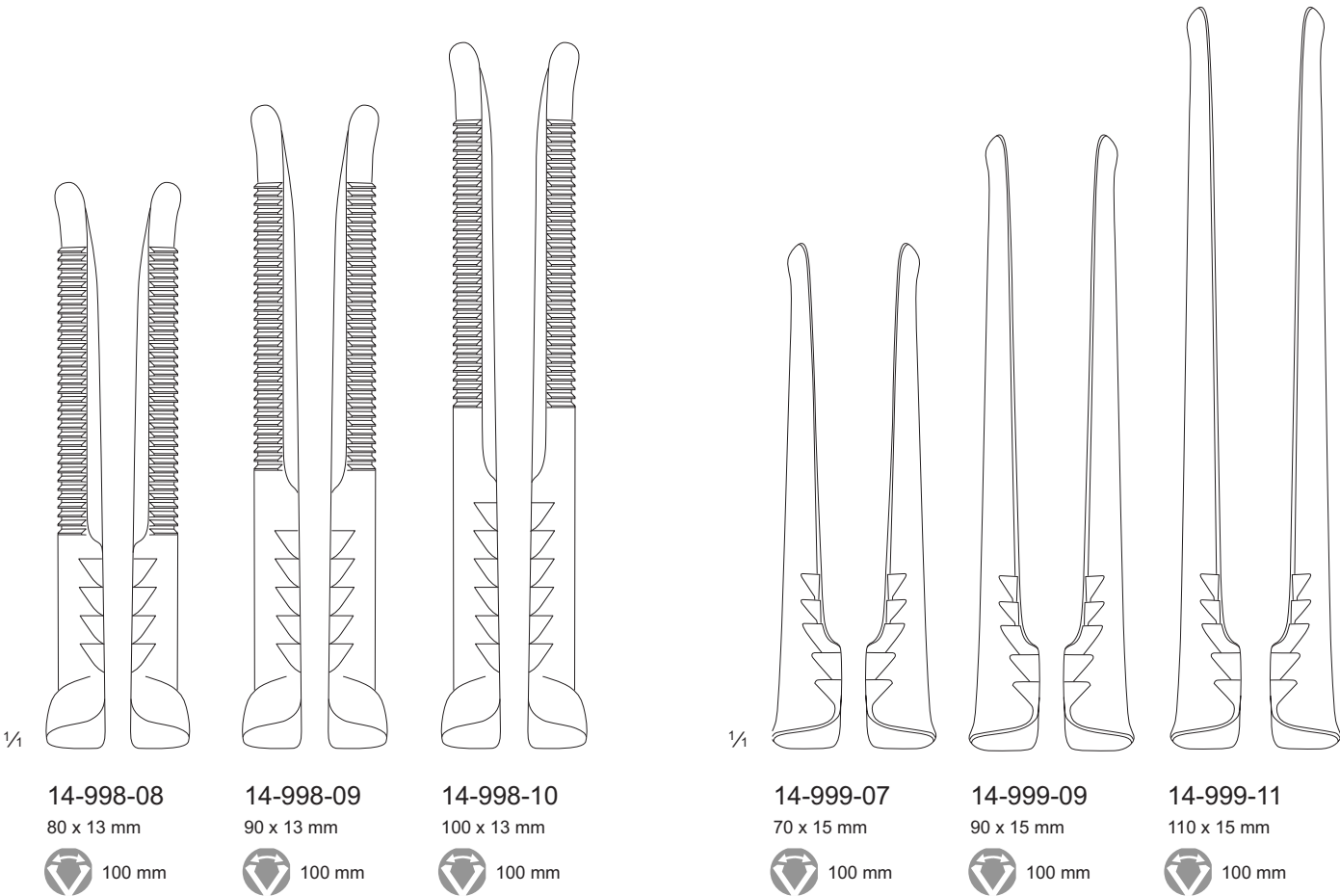
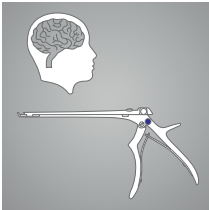


Richter
14-982-10-
14-982-13
detachable
zerlegbar
desmontable
démontable
smontabile

Jaw width Maulbreite Anchura de la boca Largeurde mors Larghezza della bocca		straight gerade recto droit diritto	30° angled upward aufgewinkelt acodado arrib angulé vers le haut angolato verso l'alto
			
			
1.0 mm		 18 cm	18 cm
		 14-982-10	14-982-11
		 14-982-10	14-982-11
1.5 mm		 14-982-12	14-982-13
		 14-982-12	14-982-13

Pituitary specula
Hypophysen-Spekula
Espéculos para hipófisis
Spéculums pour hypophyse
Specoli per ipofisi

Neurosurgery
Neurochirurgie
Neurocirugía
Neurochirurgie
Neurochirurgia



14-998-08
80 x 13 mm

14-998-09
90 x 13 mm

14-998-10
100 x 13 mm

14-999-07
70 x 15 mm

14-999-09
90 x 15 mm

14-999-11
110 x 15 mm



1/2

Papavero-Caspar
14-998-08
incl. handle
inklusive Handgriff
incl. mango
manche compris
compreso manico



1/2

Cushing-Landolt
14-999-07-14-999-11

