



13

Mikro- und Neurochirurgie

Micro- and neuro surgery

Chirurgie micro et neuro

Cirugía micro y neuro

Micro- e Neuro-Chirurgia



Mikro- und Neurochirurgie

Micro- and neuro surgery

Mikronadelhalter
Micro needle holders
Micro porte aiguilles
Micro porta agujas
Micro porta aghi



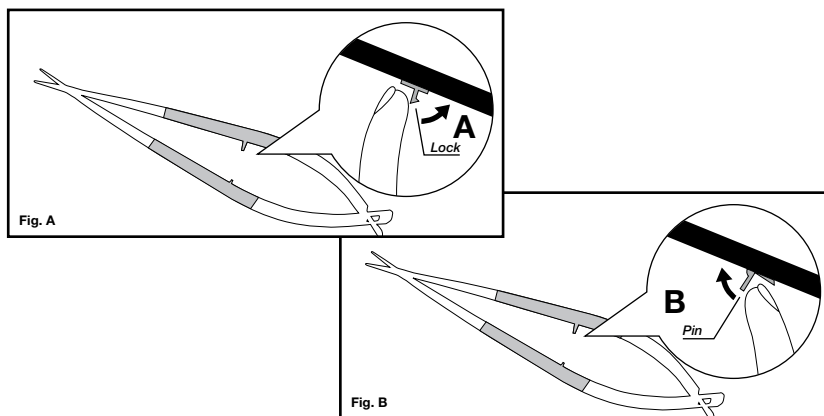
Das 2 in 1 System erlaubt die Benutzung der Nadelhalter, selbst während des Eingriffs, mit Sperre (Fig. A) oder ohne Sperre (Fig. B). Außer dem wirtschaftlichen Aspekt, der für dieses System spricht, erhöht sich auch die Zuverlässigkeit der Instrumente.

The 2 in 1 system allows to switch intraoperatively from lock (Fig. A) to lock free (Fig. B) use of the needle holder. In addition to cost effectiveness, this new concept provides better reliability.

Le système 2 in 1 permet d'utiliser, même en cours d'intervention, les porte-aiguille avec verrou (Fig. A) ou sans verrou (Fig. B). En dehors de l'aspect économique, ce nouveau concept apporte une plus grande fiabilité.

El sistema 2 in 1 permite utilizar el portaaguja con cerrojo (Fig. A) o sin cerrojo (Fig. B) incluso durante la intervención. Aparte del aspecto económico, este nuevo concepto aporta una mayor fiabilidad.

Il sistema 2 in 1 permette di utilizzare, anche in corso d'intervento il portaghi con la chiusura (Fig. A) o senza (Fig. B). Questo nuovo concetto assicura una maggiore affidabilità.



Schädelhalter

Cervical traction tongs

Pinces de traction crânienne

Pinzas de tracción craneal

Pinze per trazione craniale



1:3

CRUTCHFIELD

39-190-000



1:3

CRUTCHFIELD

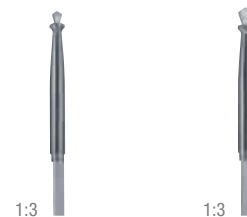
39-192-000



1:3

39-206-000

grosses Modell, für Extension der Halswirbel – kein Vorbohren erforderlich – Dorne verstellbar
 large type, cervical traction tongs – pins adjustable no drilling to be done
 modèle large, distracteur cervicale – poinçons ajustables pas de perçage nécessaire
 modelo grande, distractor cervical – espigas ajustables sin necesidad de trepanar
 modello grande, distrattore cervicale, pin ajustabili, non necessita di perforare, regolabili



1:3

1:3

	3.5 mm Ø	5.0 mm Ø
39-198-035	x	
39-198-050		x

Satz à 2 Stück für 39-190-000 und 39-192-000

Set of 2 pieces for 39-190-000 and 39-192-000

Jeu à 2 pièces pour 39-190-000 et pour 39-192-000

Juego con 2 piezas para 39-190-000 y para 39-192-000

Completo con 2 pezzi per 39-190-000 e per 39-192-000

39-208-000

Ersatzdorn für 39-206-000
 Spare pin for 39-206-000
 Goupille de rechange pour 39-206-000
 Perno de cambio para 39-206-000
 Punta di ricambio 39-206-000



1:2

66-386-190

Gabelschlüssel, doppelendig zu 39-206-000
 Wrench, double-ended for 39-206-000
 Clé de fixation, pour 39-206-000
 Llave de tuercas, para 39-206-000
 Chiave per 39-206-000

Handbohrapparate
Hand drills
Perforateurs à main
Perforadores a mano
Perforatori a mano


1:3

HUDSON

270 mm – 10 ³ / ₄ "	66-130-000
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Handbohrapparate alleine
 Hand drills only
 Perforateurs à main seul
 Perforadores a mano sólo
 Perforatori a mano solo

270 mm – 10 ³ / ₄ "	66-130-016
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komplett mit 4 Bohrern (Fig. 1 – Fig. 4) und Verlängerungsstück
 complete with 4 twist drills (Fig. 1 – Fig. 4) and extension piece
 complèt avec 4 mèches (Fig. 1 – Fig. 4) et pièce d'extension
 completa con 4 fresas (Fig. 1 – Fig. 4) y pieza de prolongación
 completo con 4 frese (Fig. 1 – Fig. 4) e pezzo di prolungazione


1:2

66-130-009

Verlängerungsstück
 Extension piece
 Pièce d'extension
 Pieza de prolongación
 Pezzo di prolungazione


1:2



1:2



1:2



1:2

Fig. 1	Fig. 2	Fig. 3	Fig. 4
9 mm Ø	14 mm Ø	16 mm Ø	22 mm Ø
66-130-001	66-130-002	66-130-003	66-130-004



1:2

CUSHING

14 mm Ø
66-130-005



1:2

MCKENZIE

13 mm Ø
421-148-070

Instrumente zur Schädelöffnung

Instruments for cranial opening

Instrumentos para l'ouverture du crâne
Instrumentos para apertura craneana
Strumenti per l'apertura del cranio



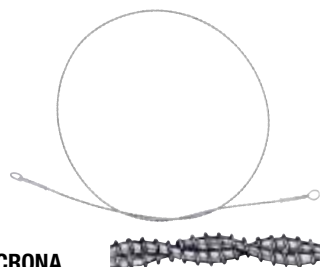
DE MARTEL 1:2
 330 mm – 13"
 39-140-330



ADSON 1:2
 150 mm – 6" 421-135-150

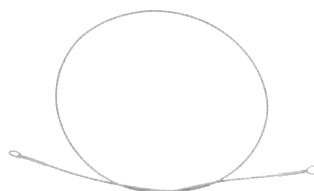


1:2
DE VILBISS
 210 mm – 8 ¼" 39-180-210



OLIVECRONA

300 mm – 12"	39-120-300
400 mm – 16"	39-120-400
500 mm – 20"	39-120-500
600 mm – 23 ½"	39-120-600
700 mm – 27 ½"	39-120-700



GIGLI

300 mm – 12"	39-122-300
400 mm – 16"	39-122-400
500 mm – 20"	39-122-500

6-teilig
 6 wires twisted
 6 fils tordus
 6 alambres torcidos
 6 fili attorcigliati



1:2
GIGLI
 39-130-000

Selbsthaltender Hirnretraktor
Self-retaining brain retractor

Retracteur cérébrale autostatique
Separador cerebral autostático
Retrattore celebrale autostatico



1:2

339-217-000

Selbsthaltender Hirnretraktor, flexibel mit 1 Spannarm, komplett, bestehend aus: Fixierungsvorrichtung für 1 Spannarm, Spannarm und Spatelhalter für flache Spatel

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

Retracteur cérébrale autostatique, flexible avec 1 tendeur, complét avec support pour 1 tendeur, tendeur et porte-spatule pour spatules plates
Separador cerebral autostático, 1 brazo flexible con soporte, completo con brazo y soporte para espátulas llanas

Retrattore celebrale autostatico, flessibile
Completo, contiene: supporto di fissaggio per un braccio, 1 braccio flessibile con supporto di fissaggio per spatole piatte

339-218-000

Selbsthaltender Hirnretraktor, flexibel mit 2 Spannarmen, komplett, bestehend aus: Fixierungsvorrichtung für 2 Spannarme, 2 Spannarme und 2 Spatelhalter für flache Spatel

Brain retractor self-retaining, with 2 flexible arms, complete, consisting of: fixation base for 2 flexible arms, 2 flexible arms, 2 supports for flat brain spatulas

Retracteur cérébrale autostatique, flexible avec 2 tendeurs, complét avec supports pour 2 tendeurs, 2 tendeurs et 2 portes-spatule pour spatules plates
Separador cerebral autostático, 2 brazos flexibles con soporte, completo con brazos y soporte para 2 spatulas llanas

Retrattore celebrale autostatico, flessibile con 2 bracci completi, contiene: supporto di fissaggio per bracci per 2 spatole piatte

Selbthaltender Hirnretraktor Self-retaining brain retractor

Retracteur cérébrale autostatique
Separador cerebral autostático
Retrattore celebrale autostatico

**339-216-060**

Fixierungsvorrichtung allein, für 2 Spannarme
Fixation base only, holding 2 flexible arms
Support seul pour 2 tendeurs
Soporte sólo para 2 brazos de separador
Supporto di fissaggio per 2 bracci, solo

339-216-050

Fixierungsvorrichtung allein, für 1 Spannarm
Fixation base only, holding 1 flexible arm
Support seul pour 1 tendeur
Soporte sólo para 1 brazo de separador
Supporto di fissaggio per 1 braccio, solo

339-216-090

Spatelhalter allein, für Flachspatel
Support only, for flat brain spatulas
Porte-spatule seul, pour spatules plates
Soporte sólo, para espátulas planas
Supporto solo, per fissaggio di spatole piatte

339-216-100

Spatelhalter allein, für Spatel mit Rundschaft von 4 mm und 5 mm Ø, zum Befestigen am Spannarm
Support only, for brain spatulas with round shaft of 4 mm and 5 mm Ø to fix on the flexible arm
Porte-spatule seul pour la fixation des spatules de 4 mm et 5 mm Ø diam
Soporte sólo para la fijación de espátulas de 4 mm y 5 mm Ø al brazo
Supporto solo per spatole con asta tonda di Ø 4 mm e 5 mm

339-216-080

Spannarm allein – zum Aufstecken auf Kupplungsköpfe und Fixierungsvorrichtungen
Flexible arm only – for attaching coupling heads and for fixation bases
Tendeur flexible seul – pour le montage sur supports et accouplements
Brazo flexible sólo para montar sobre soportes
Braccio flessibile sólo – per il montaggio sul supporto di fissaggio

Hirnspatel
Brain spatula
Spatules cérébrales
Espátulas cerebrales
Spatole cerebrali


CUSHING

	180 mm – 7"
7 mm x 9 mm	339-246-070
11 mm x 13 mm	339-246-110
15 mm x 18 mm	339-246-150
18 mm x 22 mm	339-246-180


OLIVECRONA

	180 mm – 7"	180 mm – 7"
7 mm x 9 mm	39-323-007	39-321-007
11 mm x 13 mm	39-323-011	39-321-011
15 mm x 18 mm	39-323-015	39-321-015
18 mm x 22 mm	39-323-018	39-321-018

konvex
 convex
 convexe
 convexa
 convessa

konkav
 concave
 concave
 cóncava
 concava


HEIFETZ

	200 mm – 8"
x = 8 mm	339-256-080
x = 11 mm	339-256-110
x = 14 mm	339-256-140
x = 17 mm	339-256-170
x = 20 mm	339-256-200

biegsam
 malleable
 malléable
 maleable
 flessibile

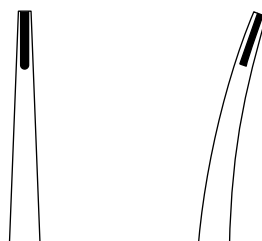
McKenzie Instrumentarium

McKenzie instruments

McKenzie instruments

Instrumentos McKenzie

Strumenti McKenzie



MCKENZIE

150 mm – 6"	339-009-150	39-241-150
190 mm – 7½"	339-009-190	39-241-190

Zangen zum Anlegen der Klammern

Clip applying forceps
 Pincés pour poser des agrafes
 Pinzas para poner grapas
 Pinze per mettere le agraiffe

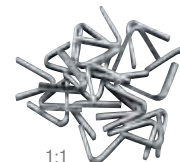


MCKENZIE 1:2

148 mm x 40 mm x 6 mm – 5¾" x 1½" x ½"	39-256-000
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Klammerblock für 20 Klammern

Brain clip rack for 20 clips
 Porte-agraffes pour 20 agrafes
 Porta-grapas para 20 grapas
 Supporto port'agraffes per 20 agraiffe



1:1

39-220-100

100 Klammern im Plastikbehälter

100 Brain clips in plastic box
 100 agrafes dans un tube de plastique
 100 grapas en tubo de plástico
 100 agraiffe nella scatola di plastica

Clips und Anlegezangen

Clips and applying forceps

Clips et pinces à appliquer

Clips y aplicadores

Clips e pinze per mettere clips



**OLIVECRONA-TOENNIS
(SCOVILLE)**

x = 140 mm – 5 ½" 39-246-145



1:2

RANEY

150 mm – 6" 339-024-000



1:1

339-023-000

Kopfhautklammer „Raney“
Scalp clip "Raney"
Agrafes pour le cuir chevelu «Raney»
Grapa para cuero cabelludo "Raney"
Agrafes per il cuoio capelluto „Raney“



1:1

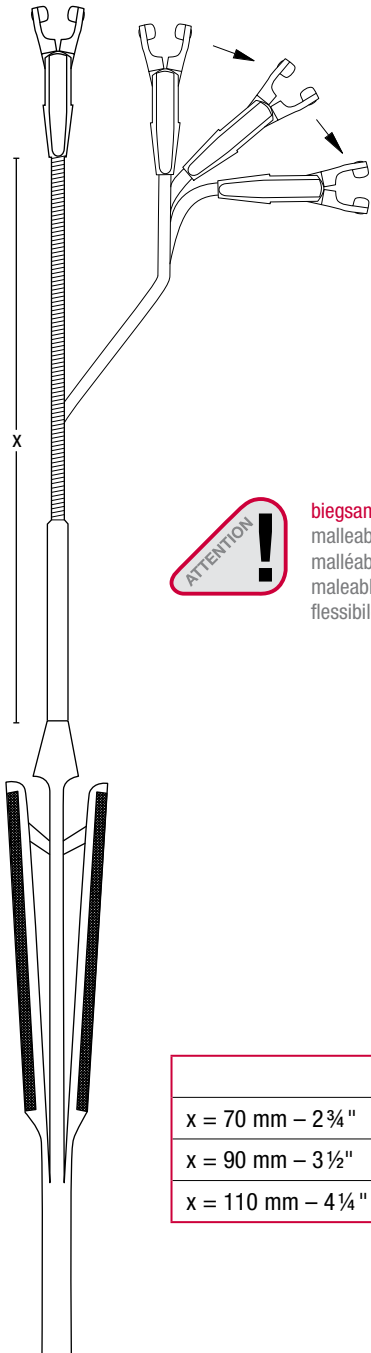
21-650-000

Kopfhautklammer „Köln“ (Packung mit 10 Stück)
Scalp clip "Köln" (Package of 10 pieces)
Agrafes pour le cuir chevelu «Köln» (Paquet de 10 pièces)
Grapa para cuero cabelludo "Köln" (Paquetes de 10 piezas)
Agrafes per il cuoio capelluto „Köln“ (Confezione da 10 pezzi)

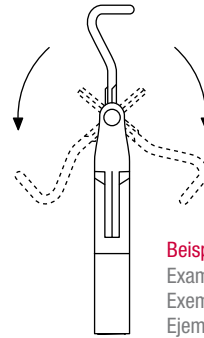
Anlegezangen für Yasargil Clips

Applying forceps for Yasargil clips

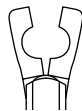
Pince à poser pour des clips Yasargil
Aplicadora para clips Yasargil
Pinze per mettere clips Yasargil



ATTENTION !
 biegsam
 malleable
 malléable
 maleable
 flessibile

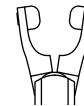


Beispiel für Drehmechanismus
 Example for rotation
 Exemple pour la rotation
 Ejemplo de rotación
 Esempio per la rotazione



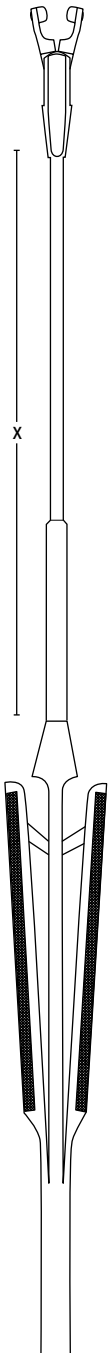
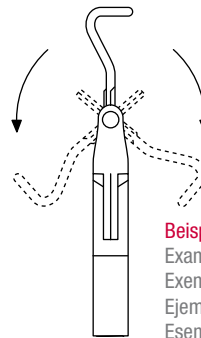
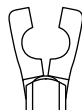
	Mini	Standard
x = 70 mm – 2¾"	339-780-002	339-781-002
x = 90 mm – 3½"	339-780-004	339-781-004
x = 110 mm – 4¼"	339-780-006	339-781-006

nicht drehbar
 non rotating
 non rotatif
 no rotatorio
 non rotativo



Mini	Standard
339-780-020	339-781-020
339-780-022	339-781-022
339-780-024	339-781-024

drehbar
 rotating
 rotatif
 rotatorio
 rotativo

Anlegezangen für Yasargil Clips
Applying forceps for Yasargil clips
Pince à poser pour des clips Yasargil
Aplicadora para clips Yasargil
Pinze per mettere clips Yasargil

starr
 rigid
 rigide
 rigido
 rigido

Beispiel für Drehmechanismus
 Example for rotation
 Exemple pour la rotation
 Ejemplo de rotación
 Esempio per la rotazione


	Mini	Standard
x = 70 mm – 2 ¾"	339-782-002	339-783-002
x = 90 mm – 3 ½"	339-782-004	339-783-004
x = 110 mm – 4 ¼"	339-782-006	339-783-006

nicht drehbar
 non rotating
 non rotatif
 no rotatorio
 non rotativo

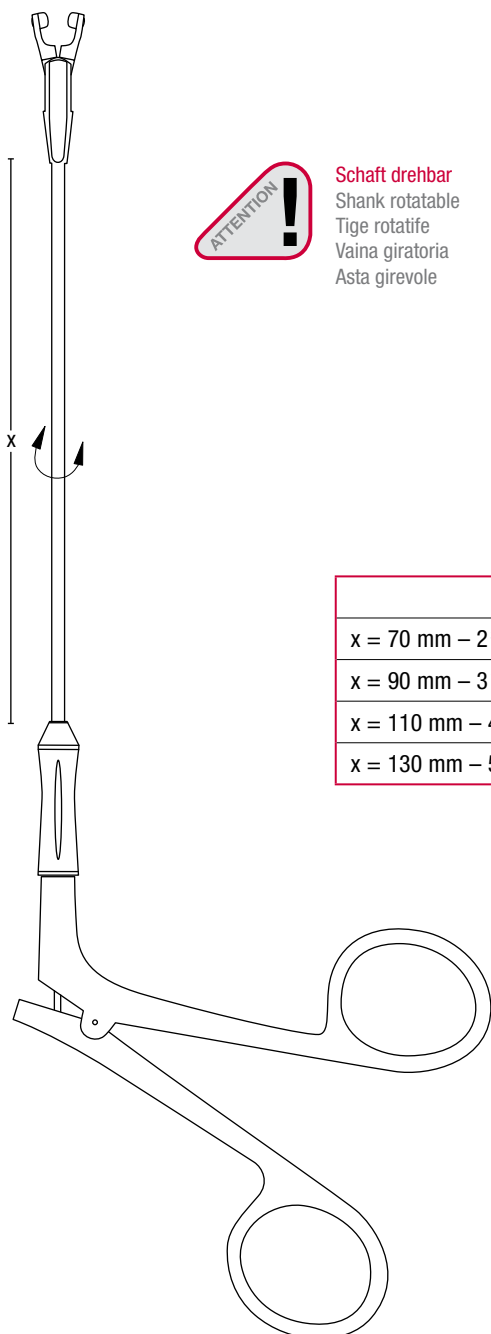

	Mini	Standard
	339-782-020	339-783-020
	339-782-022	339-783-022
	339-782-024	339-783-024

drehbar
 rotating
 rotatif
 rotatorio
 rotativo

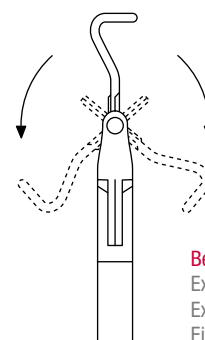
Anlegezangen für Yasargil Clips

Applying forceps for Yasargil clips

Pince à poser pour des clips Yasargil
Aplicadora para clips Yasargil
Pinze per mettere clips Yasargil



Schaft drehbar
 Shank rotatable
 Tige rotative
 Vaina giratoria
 Asta girevole



Beispiel für Drehmechanismus
 Example for rotation
 Exemple pour la rotation
 Ejemplo de rotación
 Esempio per la rotazione



	Mini	Standard
x = 70 mm – 2¾"	339-763-270	339-765-270
x = 90 mm – 3½"	339-763-290	339-765-290
x = 110 mm – 4¼"	339-763-310	339-765-310
x = 130 mm – 5"	339-763-330	339-765-330

nicht drehbar
 non rotating
 non rotatif
 no rotatorio
 non rotativo

Mini	Standard
339-763-070	339-765-070
339-763-090	339-765-090
339-763-110	339-765-110
339-763-130	339-765-130

drehbar
 rotating
 rotatif
 rotatorio
 rotativo

Anlegezangen für Yasargil Clips
Applying forceps for Yasargil clips
Pince à poser pour des clips Yasargil
Aplicadora para clips Yasargil
Pinze per mettere clips Yasargil


	Mini	Standard	Mini	Standard
17 mm – 6¾"	339-768-170	339-770-170	339-768-370	339-770-370
21 mm – 8¼"	339-768-210	339-770-210	339-768-410	339-770-410
23 mm – 9"	339-768-230	339-770-230	339-768-430	339-770-430

bayonett-förmig, mit Sperre
 bayonett shaped, with ratchet
 en baionette, avec verrou
 forma bayoneta, con cierre
 forma baionetta, con cremagliera

drehbar
 rotating
 rotatif
 rotatorio
 rotativo



	Mini	Standard	Mini	Standard
18 mm – 7"	339-772-180	339-774-180	339-772-280	339-774-280

gerade, mit Sperre
 straight, with ratchet
 droit, avec verrou
 recta, con cierre
 retta, con cremagliera

drehbar
 rotating
 rotatif
 rotatorio
 rotativo

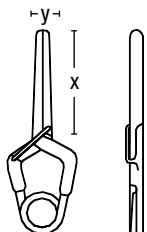
Mikro- und Neurochirurgie

Micro- and neuro surgery

Aneurysmen Gefäßclips

Aneurysm vessel clips

Anévrisme clips
Aneurisma clips
Clips per aneurisma e vasi



x	y	gms
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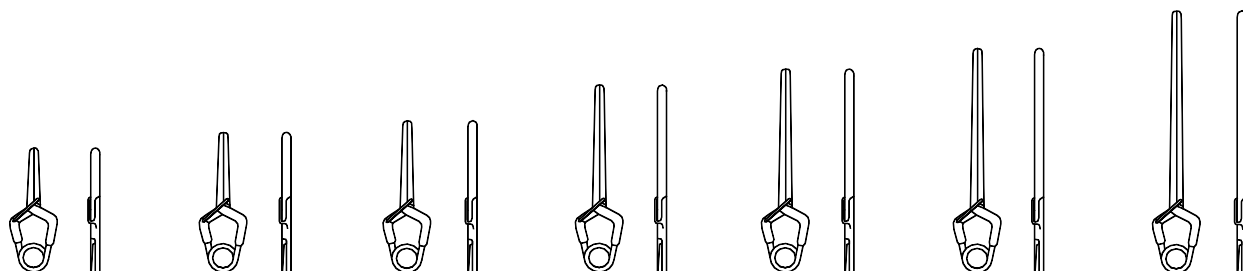
Maullänge
jaw length
longueur du mors
longitud de la boca
lunghezza del morso

max. Maulöffnung
max. jaw opening
ouverture max. du mors
apertura máx. de la boca
apertura mass.

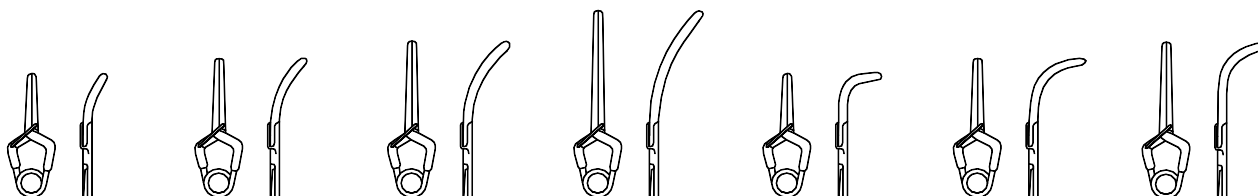
Schließkraft
closing pressure
force de fermeture
fuerza de cierre
pressione

YASARGIL-STANDARD

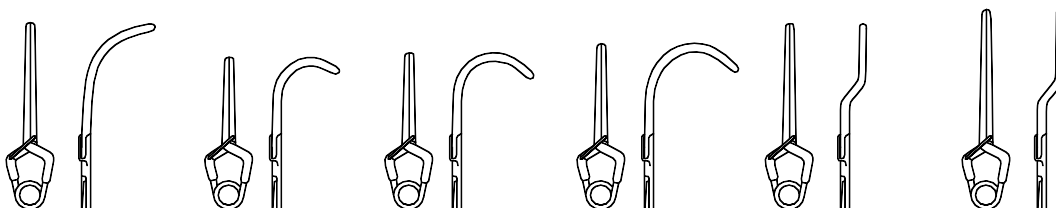
für **permanenten** Verschluss, aus hochwertigem Implantatstahl, antimagnetisch
for **permanent** closure, in high quality implant steel, antimagnetic
pour fermeture **permanente**, acier de haute qualité, anti-magnétique
para oclusión **permanente**, acero de alta calidad, antimagnético
per chiusura **permanente**, acciaio di alta qualità, antimagnetico



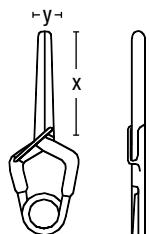
x = 7.0 mm	x = 9.0 mm	x = 11.0 mm	x = 15.0 mm	x = 17.0 mm	x = 20.0 mm	x = 25.0 mm
y = 6.2 mm	y = 7.0 mm	y = 7.8 mm	y = 9.2 mm	y = 10.6 mm	y = 11.4 mm	y = 13.3 mm
gms = 150	gms = 180	gms = 180	gms = 200	gms = 200	gms = 200	gms = 200
340-716-550	340-726-600	340-736-680	340-746-800	340-746-106	340-746-114	340-746-133
340-716-550T	340-726-600T	340-736-680T	340-746-800T	340-746-106T	340-746-114T	340-746-133T



x = 7.0 mm	x = 9.0 mm	x = 11.0 mm	x = 15.0 mm	x = 7.0 mm	x = 9.0 mm	x = 11.0 mm
y = 6.0 mm	y = 6.8 mm	y = 7.5 mm	y = 8.7 mm	y = 5.5 mm	y = 6.1 mm	y = 6.5 mm
gms = 150	gms = 180	gms = 180	gms = 200	gms = 150	gms = 180	gms = 180
340-718-530	340-728-600	340-738-650	340-748-750	340-720-480	340-730-500	340-740-580
340-718-530T	340-728-600T	340-738-650T	340-748-750T	340-720-480T	340-730-500T	340-740-580T



x = 15.0 mm	x = 7.0 mm	x = 9.0 mm	x = 11.0 mm	x = 7.0 mm	x = 9.0 mm
y = 7.4 mm	y = 5.4 mm	y = 5.8 mm	y = 6.2 mm	y = 7.9 mm	y = 8.7 mm
gms = 200	gms = 180	gms = 180	gms = 180	gms = 200	gms = 200
340-750-650	340-750-054	340-750-058	340-750-062	340-724-680	340-734-750
340-750-650T	340-750-054T	340-750-058T	340-750-062T	340-724-680T	340-734-750T

Aneurysmen Gefäßclips
Aneurysm vessel clips
Anévrisme clips
Aneurisma clips
Clips per aneurisma e vasi


x	y	gms
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Maullänge
 jaw length
 longueur du mors
 longitud de la boca
 lunghezza del morso

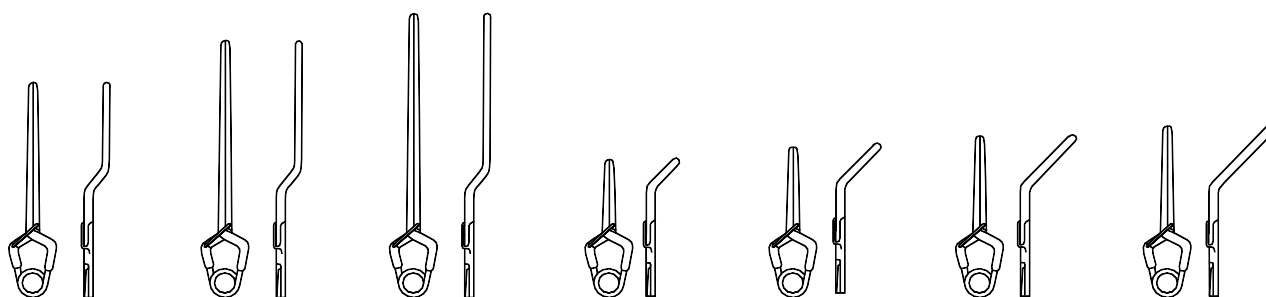
max. Maulöffnung
 max. jaw opening
 ouverture max. du mors
 apertura máx. de la boca
 apertura mass.

Schließkraft
 closing pressure
 force de fermeture
 fuerza de cierre
 pressione

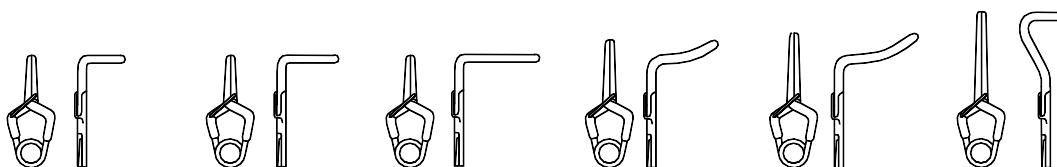
YASARGIL-STANDARD

 für **permanenten** Verschluss, aus hochwertigem Implantatstahl, antimagnetisch

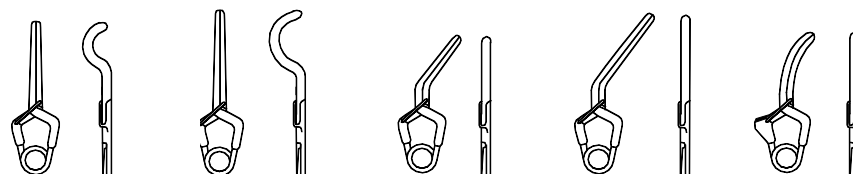
 for **permanent** closure, in high quality implant steel, antimagnetic
 pour fermeture **permanente**, acier de haute qualité, anti-magnétique

 para oclusión **permanente**, acero de alta calidad, antimagnético
 per chiusura **permanente**, acciaio di alta qualità, antimagnetico


x = 12.0 mm	x = 17.0 mm	x = 20.0 mm	x = 5.0 mm	x = 7.0 mm	x = 9.0 mm	x = 11.0 mm
y = 10.2 mm	y = 11.9 mm	y = 13.0 mm	y = 6.2 mm	y = 6.5 mm	y = 7.8 mm	y = 8.4 mm
gms = 200	gms = 180	gms = 180	gms = 200	gms = 200	gms = 200	gms = 200
340-734-102	340-734-119	340-734-130	340-735-062	340-735-065	340-735-078	340-735-084
340-734-102T	340-734-119T	340-734-130T	340-735-062T	340-735-065T	340-735-078T	340-735-084T



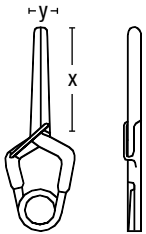
x = 5.0 mm	x = 7.0 mm	x = 10.0 mm	x = 8.0 mm	x = 10.0 mm	x = 5.0 mm
y = 5.6 mm	y = 5.6 mm	y = 5.6 mm	y = 5.4 mm	y = 5.6 mm	y = 7.2 mm
gms = 200	gms = 200	gms = 200	gms = 200	gms = 200	gms = 200
340-776-056	340-776-380	340-734-755	340-776-054	340-734-056	340-776-072
340-776-056T	340-776-380T	340-734-755T	340-776-054T	340-734-056T	340-776-072T



x = 9.0 mm	x = 11.0 mm	x = 7.0 mm	x = 11.0 mm	x = 9.0 mm
y = 7.2 mm	y = 8.2 mm	y = 5.7 mm	y = 8.0 mm	y = 7.0 mm
gms = 200	gms = 200	gms = 200	gms = 200	gms = 200
340-734-072	340-734-082	340-722-500	340-722-800	340-722-062
340-734-072T	340-734-082T	340-722-500T	340-722-800T	340-722-062T

Aneurysmen Gefäßclips Aneurysm vessel clips

Anévrisme clips
Aneurisma clips
Clips per aneurisma e vasi



x	y	gms
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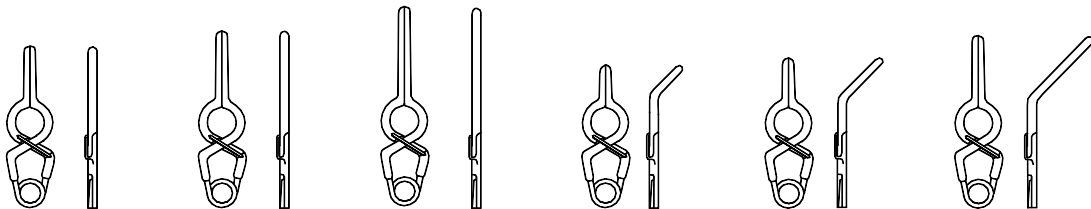
Maullänge
jaw length
longueur du mors
longitud de la boca
lunghezza del morso

max. Maulöffnung
max. jaw opening
ouverture max. du mors
apertura máx. de la boca
apertura mass.

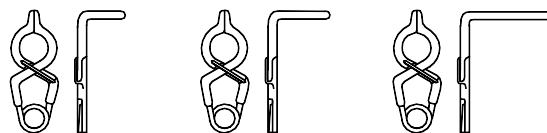
Schließkraft
closing pressure
force de fermeture
fuerza de cierre
pressione

YASARGIL-STANDARD

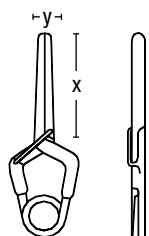
für **permanenten** Verschluss, mit Fenster 3.5 mm, aus hochwertigem Implantastahl, antimagnetisch
for **permanent** closure, with window 3.5 mm, in high quality implant steel, antignetic
pour fermeture **permanente**, avec fenestra 3.5 mm, acier de haute qualité, anti-magnétique
para oclusión **permanente**, finestrado de 3.5 mm, acero de alta calidad, antimagnético
per chiusura **permanente**, con finestra di 3.5 mm, acciaio di alta qualita, antimagnetico



x = 7.0 mm	x = 9.0 mm	x = 12.0 mm	x = 5.0 mm	x = 7.0 mm	x = 11.0 mm
y = 7.4 mm	y = 8.4 mm	y = 9.6 mm	y = 5.8 mm	y = 6.5 mm	y = 7.2 mm
gms = 150	gms = 150	gms = 180	gms = 150	gms = 150	gms = 180
339-556-110	339-556-140	339-556-170	339-557-090	339-557-110	339-557-140
339-556-110T	339-556-140T	339-556-170T	339-557-090T	339-557-110T	339-557-140T



x = 5.0 mm	x = 7.0 mm	x = 11.0 mm
y = 4.9 mm	y = 4.9 mm	y = 4.9 mm
gms = 150	gms = 150	gms = 180
339-558-090	339-558-120	339-558-140
339-558-090T	339-558-120T	339-558-140T

Aneurysmen Gefäßclips
Aneurysm vessel clips
Anévrisme clips
Aneurisma clips
Clips per aneurisma e vasi


x	y	gms
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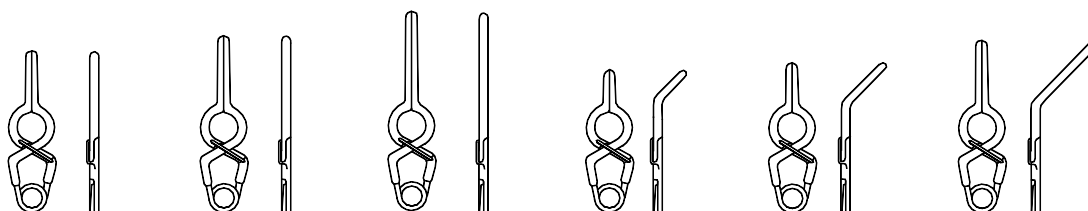
Maullänge
 jaw length
 longueur du mors
 longitud de la boca
 lunghezza del morso

max. Maulöffnung
 max. jaw opening
 ouverture max. du mors
 apertura máx. de la boca
 apertura mass.

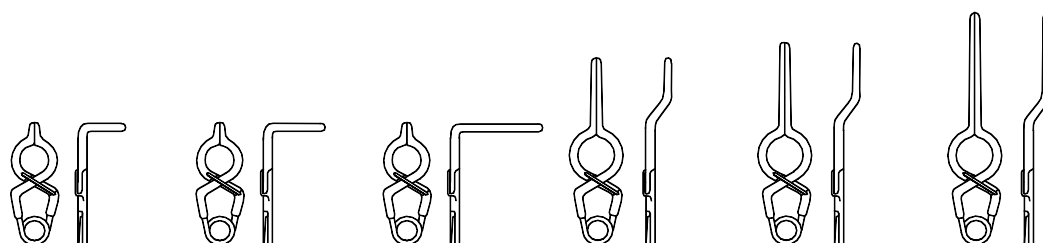
Schließkraft
 closing pressure
 force de fermeture
 fuerza de cierre
 pressione

YASARGIL-STANDARD

für **permanenten** Verschluss, mit Fenster 3.5 mm,
 aus hochwertigem Implantatstahl, antimagnetisch
 for **permanent** closure, with window 3.5 mm,
 in high quality implant steel, antimagnetic
 pour fermeture **permanente**, avec fenestra 3.5 mm,
 acier de haute qualité, anti-magnétique
 para oclusión **permanente**, finestrado de 3.5 mm,
 acero de alta calidad, antimagnético
 per chiusura **permanente**, con finestra di 3.5 mm,
 acciaio di alta qualità, antimagnetico



x = 7.0 mm	x = 9.0 mm	x = 12.0 mm	x = 5.0 mm	x = 7.0 mm	x = 11.0 mm
y = 7.9 mm	y = 9.1 mm	y = 10.3 mm	y = 6.5 mm	y = 7.2 mm	y = 7.8 mm
gms = 150	gms = 150	gms = 180	gms = 150	gms = 150	gms = 180
339-560-120	339-560-150	339-560-180	339-561-100	339-561-130	339-561-150
339-560-120T	339-560-150T	339-560-180T	339-561-100T	339-561-130T	339-561-150T

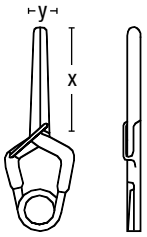


x = 5.0 mm	x = 7.0 mm	x = 11.0 mm	x = 5.0 mm	x = 7.0 mm	x = 11.0 mm
y = 5.5 mm	y = 5.5 mm	y = 5.5 mm	y = 7.9 mm	y = 8.8 mm	y = 10.0 mm
gms = 150	gms = 150	gms = 180	gms = 150	gms = 150	gms = 180
339-562-110	339-562-130	339-562-160	339-564-140	339-564-170	339-564-190
339-562-110T	339-562-130T	339-562-160T	339-564-140T	339-564-170T	339-564-190T

Aneurysmen Gefäßclips

Aneurysm vessel clips

Anévrisme clips
Aneurisma clips
Clips per aneurisma e vasi



x	y	gms
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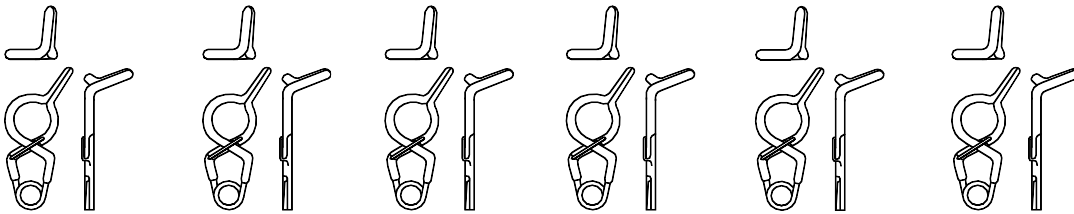
Maullänge
 jaw length
 longueur du mors
 longitud de la boca
 lunghezza del morso

max. Maulöffnung
 max. jaw opening
 ouverture max. du mors
 apertura máx. de la boca
 apertura mass.

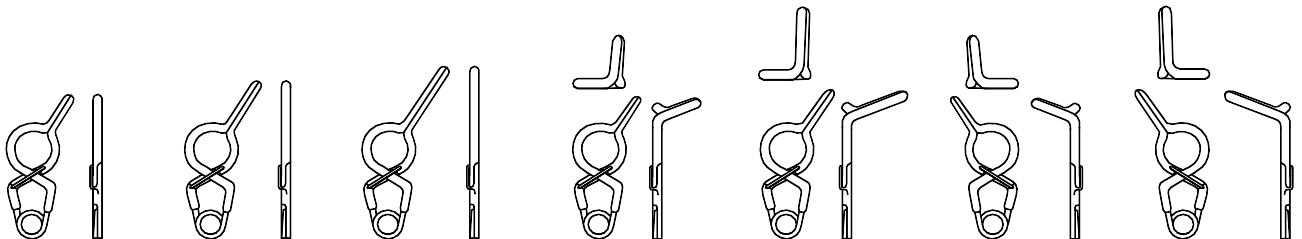
Schließkraft
 closing pressure
 force de fermeture
 fuerza de cierre
 pressione

YASARGIL-STANDARD

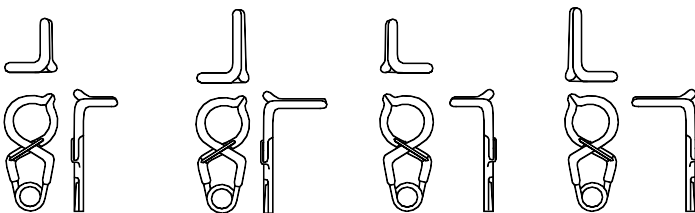
für **permanenten** Verschluss, mit Fenster 5.0 mm, aus hochwertigem Implantastahl, antimagnetisch
 for **permanent** closure, with window 5.0 mm, in high quality implant steel, antignitic
 pour fermeture **permanente**, avec fenestra 5.0 mm, acier de haute qualité, anti-magnétique
 para oclusión **permanente**, finestrado de 5.0 mm, acero de alta calidad, antimagnético
 per chiusura **permanente**, con finestra di 5.0 mm, acciaio di alta qualita, antimagnetico



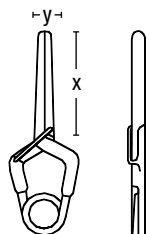
x = 5.0 mm	x = 7.0 mm	x = 10.0 mm	x = 5.0 mm	x = 7.0 mm	x = 10.0 mm
y = 5.8 mm	y = 5.8 mm	y = 5.8 mm	y = 5.8 mm	y = 5.8 mm	y = 5.8 mm
gms = 150	gms = 150	gms = 150	gms = 150	gms = 150	gms = 150
340-100-058	340-101-058	340-102-058	340-103-058	340-104-058	340-105-058
340-100-058T	340-101-058T	340-102-058T	340-103-058T	340-104-058T	340-105-058T



x = 5.0 mm	x = 7.0 mm	x = 10.0 mm	x = 5.0 mm	x = 7.0 mm	x = 5.0 mm	x = 7.0 mm
y = 7.0 mm	y = 7.8 mm	y = 8.8 mm	y = 5.8 mm	y = 6.2 mm	y = 5.8 mm	y = 6.2 mm
gms = 150	gms = 150	gms = 150	gms = 150	gms = 150	gms = 150	gms = 150
340-100-070	340-100-078	340-100-088	340-106-058	340-100-062	340-107-058	340-101-062
340-100-070T	340-100-078T	340-100-088T	340-106-058T	340-100-062T	340-107-058T	340-101-062T



x = 5.0 mm	x = 7.0 mm	x = 5.0 mm	x = 7.0 mm
y = 5.6 mm	y = 5.6 mm	y = 5.6 mm	y = 5.6 mm
gms = 150	gms = 150	gms = 150	gms = 150
340-100-056	340-101-056	340-102-056	340-103-056
340-100-056T	340-101-056T	340-102-056T	340-103-056T

Aneurysmen Gefäßclips
Aneurysm vessel clips
Anévrisme clips
Aneurisma clips
Clips per aneurisma e vasi


x	y	gms
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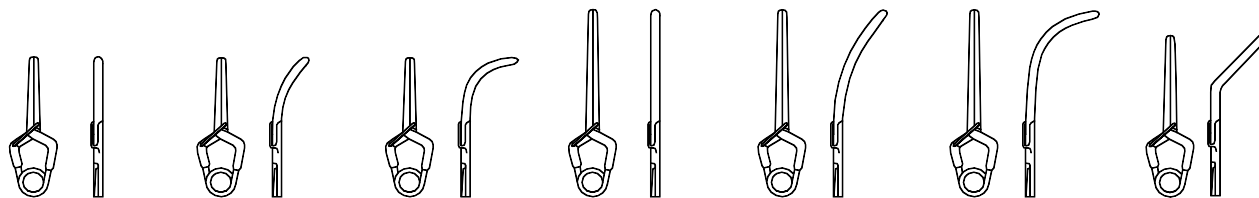
Maullänge
 jaw length
 longueur du mors
 longitud de la boca
 lunghezza del morso

max. Maulöffnung
 max. jaw opening
 ouverture max. du mors
 apertura máx. de la boca
 apertura mass.

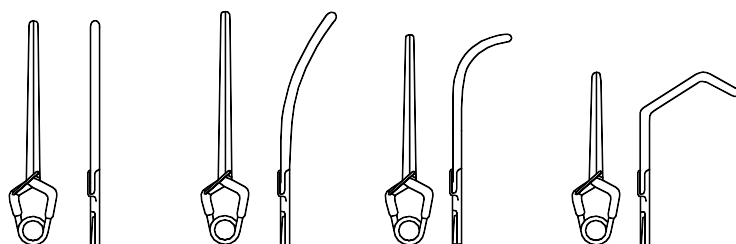
Schließkraft
 closing pressure
 force de fermeture
 fuerza de cierre
 pressione

YASARGIL-STANDARD

für **temporären** Verschluss, aus hochwertigem Implantatstahl, antimagnetisch
 for **temporary** closure, in high quality implant steel, antimagnetic
 pour fermeture **temporaire**, acier de haute qualité, anti-magnétique
 para oclusión **temporal**, acero de alta calidad, antimagnético
 per uso **temporaneo**, acciaio di alta qualità, antimagnetico



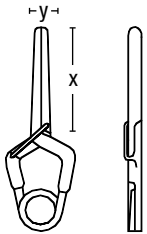
x = 9.0 mm	x = 9.0 mm	x = 9.0 mm	x = 15.0 mm	x = 15.0 mm	x = 15.0 mm	x = 9.0 mm
y = 7.0 mm	y = 6.8 mm	y = 6.1 mm	y = 9.2 mm	y = 8.7 mm	y = 7.4 mm	y = 6.2 mm
gms = 90	gms = 90	gms = 110	gms = 90	gms = 110	gms = 110	gms = 110
340-000-070	340-001-068	340-002-061	340-000-092	340-001-087	340-002-074	340-005-078
340-000-070T	340-001-068T	340-002-061T	340-000-092T	340-001-087T	340-002-074T	340-005-078T



x = 20.0 mm	x = 20.0 mm	x = 17.0 mm	x = 13.0 mm
y = 11.4 mm	y = 11.0 mm	y = 9.9 mm	y = 7.5 mm
gms = 110	gms = 90	gms = 90	gms = 90
340-000-114	340-001-110	340-002-099	340-005-075
340-000-114T	340-001-110T	340-002-099T	340-005-075T

Aneurysmen Gefäßclips Aneurysm vessel clips

Anévrisme clips
Aneurisma clips
Clips per aneurisma e vasi



x	y	gms
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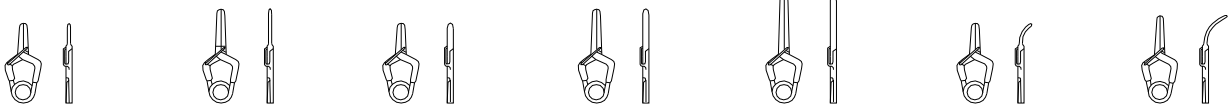
Maullänge
jaw length
longueur du mors
longitud de la boca
lunghezza del morso

max. Maulöffnung
max. jaw opening
ouverture max. du mors
apertura máx. de la boca
apertura mass.

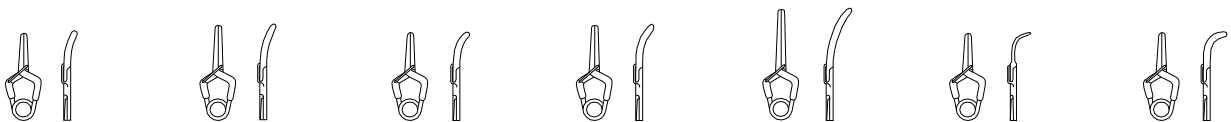
Schließkraft
closing pressure
force de fermeture
fuerza de cierre
pressione

YASARGIL-MINI

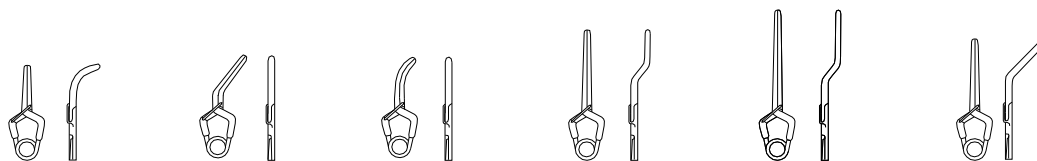
für **permanenten** Verschluss, aus hochwertigem Implantatstahl, antimagnetisch
for **permanent** closure, in high quality implant steel, antimagnetic
pour fermeture **permanente**, acier de haute qualité, anti-magnétique
para oclusión **permanente**, acero de alta calidad, antimagnético
per chiusura **permanente**, acciaio di alta qualità, antimagnetico



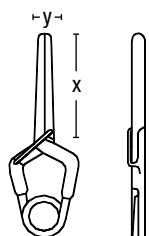
x = 3.0 mm	x = 5.0 mm	x = 3.0 mm	x = 5.0 mm	x = 7.0 mm	x = 3.0 mm	x = 4.0 mm
y = 3.3 mm	y = 4.0 mm	y = 3.3 mm	y = 4.0 mm	y = 4.6 mm	y = 3.2 mm	y = 3.8 mm
gms = 110	gms = 110	gms = 110	gms = 110	gms = 110	gms = 110	gms = 110
340-566-300	340-576-350	340-688-033	340-688-350	340-706-400	340-568-300	340-578-350
340-566-300T	340-576-350T	340-688-033T	340-688-350T	340-706-400T	340-568-300T	340-578-350T



x = 4.0 mm	x = 5.0 mm	x = 4.0 mm	x = 5.0 mm	x = 7.0 mm	x = 4.0 mm	x = 4.0 mm
y = 3.6 mm	y = 3.8 mm	y = 3.6 mm	y = 4.0 mm	y = 4.4 mm	y = 3.6 mm	y = 3.5 mm
gms = 110	gms = 110	gms = 110	gms = 110	gms = 110	gms = 110	gms = 110
340-578-036	340-690-350	340-690-036	340-690-040	340-708-380	340-580-330	340-692-330
340-578-036T	340-690-350T	340-690-036T	340-690-040T	340-708-380T	340-580-330T	340-692-330T



x = 5.0 mm	x = 5.0 mm	x = 6.0 mm	x = 4.0 mm	x = 7.0 mm	x = 7.0 mm
y = 4.0 mm	y = 3.5 mm	y = 6.0 mm	y = 7.0 mm	y = 5.7 mm	y = 4.5 mm
gms = 110	gms = 130	gms = 130	gms = 130	gms = 130	gms = 130
340-710-350	340-694-300	340-694-060	340-714-070	340-714-500	340-762-400
340-710-350T	340-694-300T	340-694-060T	340-714-070T	340-714-500T	340-762-400T

Aneurysmen Gefäßclips
Aneurysm vessel clips
Anévrisme clips
Aneurisma clips
Clips per aneurisma e vasi


x	y	gms
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Maullänge
 jaw length
 longueur du mors
 longitud de la boca
 lunghezza del morso

max. Maulöffnung
 max. jaw opening
 ouverture max. du mors
 apertura máx. de la boca
 apertura mass.

Schließkraft
 closing pressure
 force de fermeture
 fuerza de cierre
 pressione

YASARGIL-MINI

für **temporären** Verschluss, aus hochwertigem Implantatstahl, antimagnetisch

for **temporary** closure, in high quality implant steel, antimagnetic
 pour fermeture **temporaire**, acier de haute qualité, anti-magnétique
 para oclusión **temporal**, acero de alta calidad, antimagnético
 per uso **temporaneo**, acciaio di alta qualità, antimagnetico



x = 3.0 mm	x = 5.0 mm	x = 4.0 mm	x = 7.0 mm	x = 7.0 mm	x = 5.0 mm
y = 3.3 mm	y = 4.0 mm	y = 3.8 mm	y = 4.6 mm	y = 4.4 mm	y = 4.0 mm
gms = 90	gms = 70	gms = 70	gms = 70	gms = 70	gms = 70
340-120-033	340-120-040	340-120-038	340-120-046	340-120-044	340-123-040
340-120-033T	340-120-040T	340-120-038T	340-120-046T	340-120-044T	340-123-040T

Nervenhaken

Nerve hooks

Crochets à nerfs

Ganchos para nervios

Uncini per nervi



SCOVILLE

1:2

230 mm – 9"
x = 8 mm
423-720-230

HOLSHER

1:2

240 mm – 9½"
x = 7 mm
423-721-240

SCOVILLE

1:2

200 mm – 8"
x = 7 mm
423-723-190

1:2

210 mm – 8¼"
x = 7 mm
423-725-190

Duramesser
Dura knives

Bistouries pour duremère
Bisturís para duramadre
Bisturi per duramadre



1:1



1:1



TOENNIS

150 mm – 6"

190 mm – 7 ½"

01-164-130

01-164-190



1:2



1:1

HALLE

200 mm – 8"

01-168-200

Nervenhaken – Durahaken
Nerve hooks – Dura hooks

Crochets à nerfs – Crochets pour duremère
Ganchos para nervios – Ganchos para duramadre
Uncini per nervi – Uncini per duramadre




SMITHWICK 1:1

170 mm – 6¾"	423-744-170
210 mm – 8¼"	423-744-210



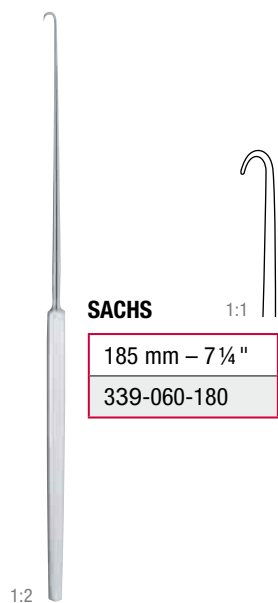
HOEN 1:2 1:1

220 mm – 8¾"	423-751-220
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CUSHING 1:1 1:1

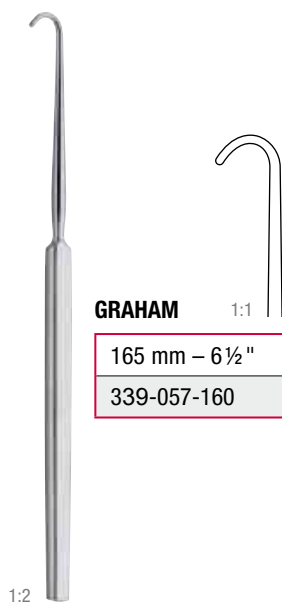
190 mm – 7½"	23-481-190	23-483-190
280 mm – 11"	339-052-280	339-054-280

Nervenhaken – Durahaken
Nerve hooks – Dura hooks
Crochets à nerfs – Crochets pour duremère
Ganchos para nervios – Ganchos para duramadre
Uncini per nervi – Uncini per duramadre

SACHS

1:1

185 mm – 7 ¼"

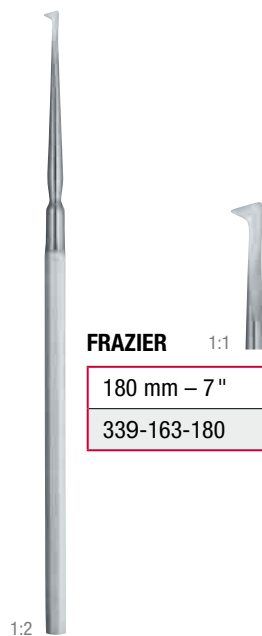
339-060-180


GRAHAM

1:1

165 mm – 6 ½"

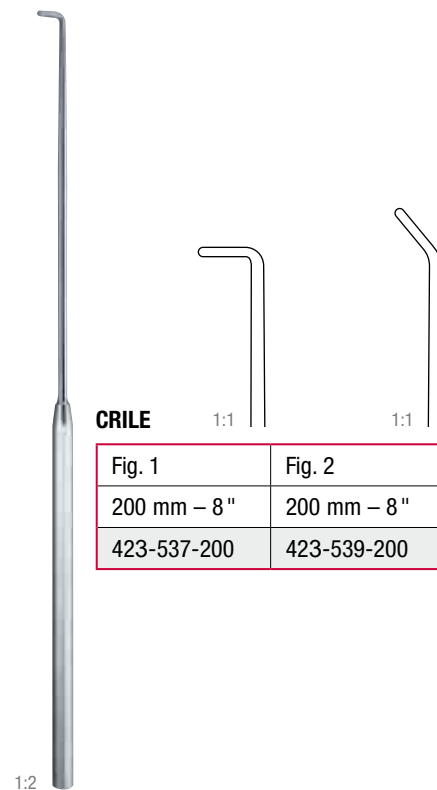
339-057-160


FRAZIER

1:1

180 mm – 7"

339-163-180


CRILE

1:1

1:1

Fig. 1

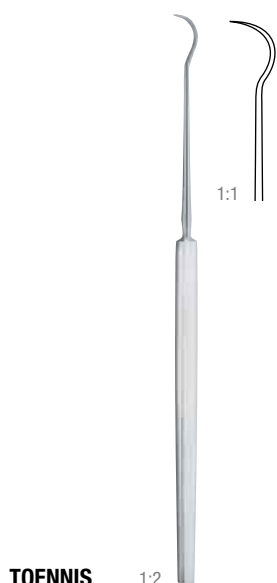
Fig. 2

200 mm – 8"

200 mm – 8"

423-537-200

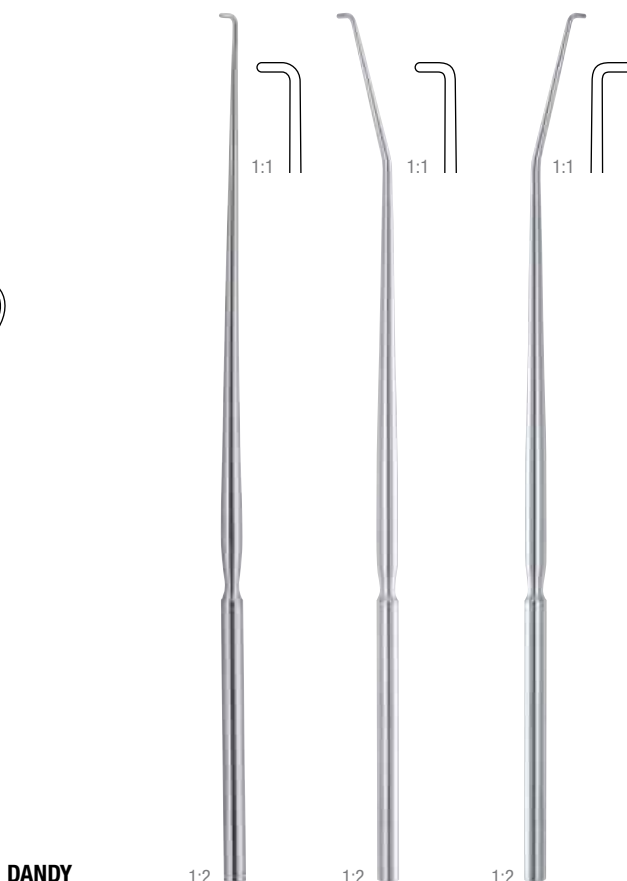
423-539-200


TOENNIS

1:2

150 mm – 6"

423-825-150


DANDY

1:2

1:2

1:2

200 mm – 8"

339-048-200

339-047-200

339-049-200


ADSON

1:2

1:1

1:1

200 mm – 8"

23-449-200

23-451-200

Nervenhaken – Durahaken
Nerve hooks – Dura hooks

Crochets à nerfs – Crochets pour duremère
Ganchos para nervios – Ganchos para duramadre
Uncini per nervi – Uncini per duramadre



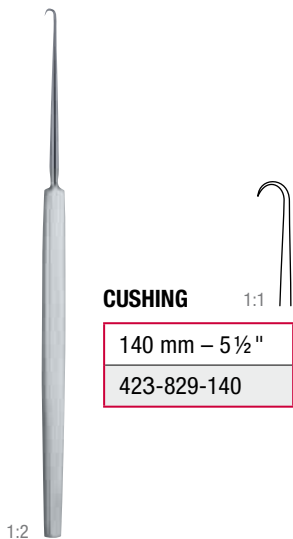
LOVE

190 mm – 7 1/2"	23-491-000	23-491-045	23-491-090
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YASARGIL

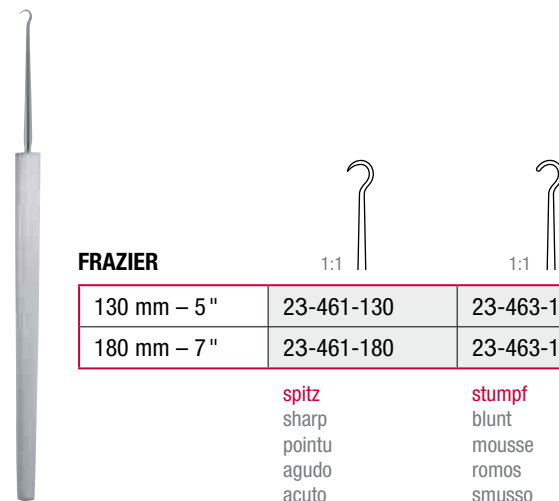
310 mm – 12 1/4"	423-674-010
410 mm – 16 1/4"	423-674-020

Galeahaken
 Galea retractor
 Retracteur Galea
 Retractor de Galea
 Rettrotore di Galea



CUSHING

140 mm – 5 1/2"
423-829-140

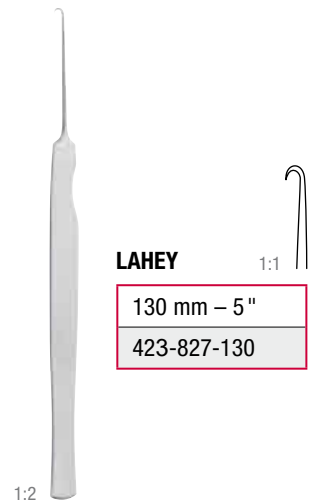


FRAZIER

130 mm – 5"	23-461-130	23-463-130
180 mm – 7"	23-461-180	23-463-180

spitz
 sharp
 pointu
 agudo
 acuto

stumpf
 blunt
 mousse
 romos
 smusso



LAHEY

130 mm – 5"
423-827-130

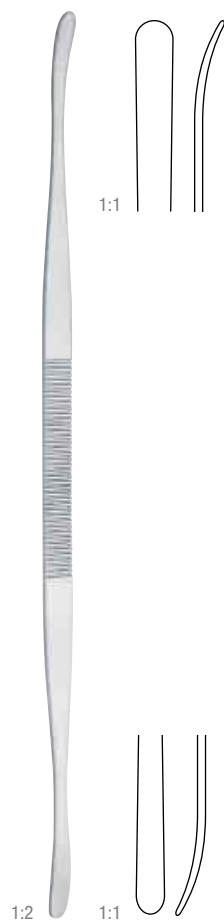
Dura-Dissektoren

Dura dissectors

Décolleurs duremère

Disectores de duramadre

Dissetori per duramadre



TOENNIS

1:2

1:1

250 mm – 9¾"

339-137-250



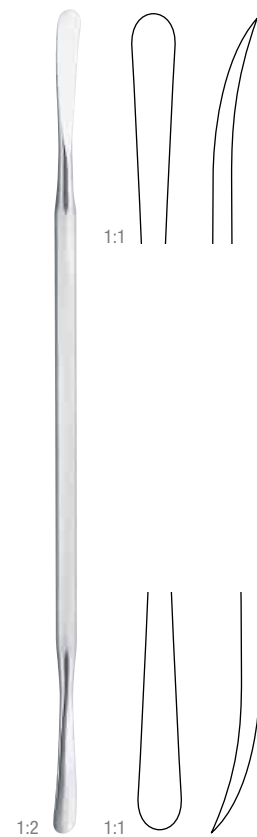
DAVIS

1:2

1:1

245 mm – 9¾"

26-901-245



1:2

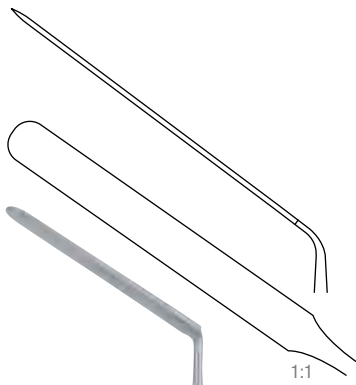
1:1

220 mm – 8¾"

339-145-220

Dura-Dissektoren
Dura dissectors

Décolleurs duremère
Disectores de duramadre
Dissetori per duramadre



1:1

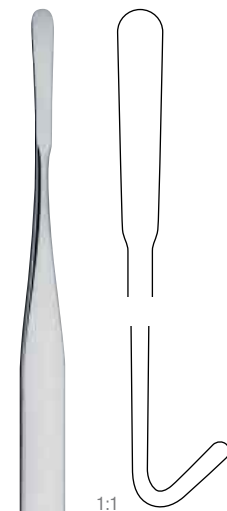


1:2

HORSLEY

200 mm – 8"

339-151-200



1:1

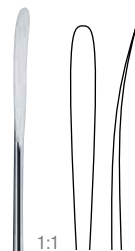


1:2

SMITHWICK

290 mm – 11 ½"

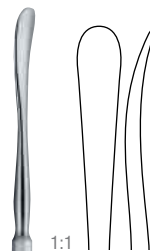
339-066-290



1:1



1:2



1:1



1:2



1:1



1:2

SACHS

210 mm – 8 ¼"

339-141-210

339-139-210

26-941-210

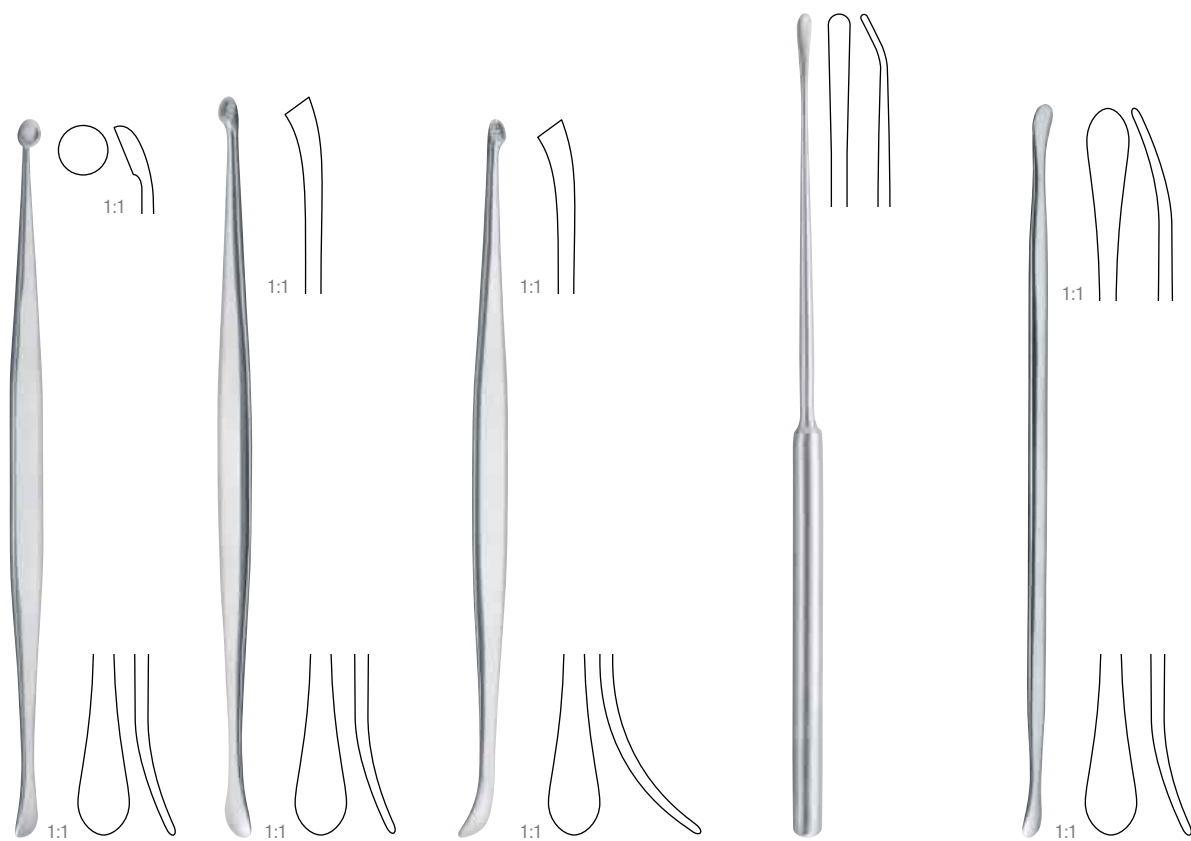
Dura-Dissektoren

Dura dissectors

Décolleurs duremère

Disectores de duramadre

Dissetori per duramadre



PENFIELD

Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5
175 mm – 7"	195 mm – 7¾"	195 mm – 7¾"	215 mm – 8½"	185 mm – 7¼"
339-157-010	339-157-020	339-157-030	339-157-040	339-157-050

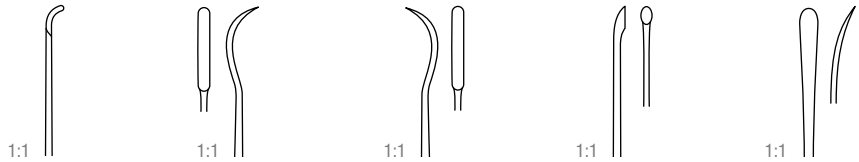
Neuro-Mikro-Dissektoren

Neuro-micro dissectors

Neuro-micro dissecteurs
Disectores para micro-neurocirugía
Strumento per micro-neuro chirurgia



YASARGIL



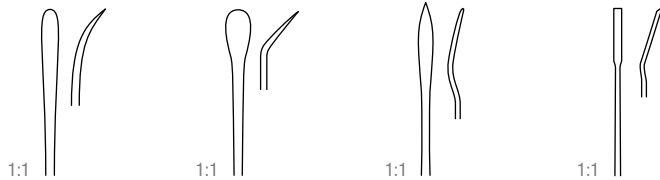
190 mm – 7 ½"	423-946-070	423-946-080	423-946-090	423-946-100	423-946-050
---------------	-------------	-------------	-------------	-------------	-------------

gerade
straight
droit
recta
rette

190 mm – 7 ½"	423-953-050	423-953-030	423-953-040	423-955-190	423-953-020
---------------	-------------	-------------	-------------	-------------	-------------

bajonett
bayonet
baionette
bayoneta
baionetta

YASARGIL

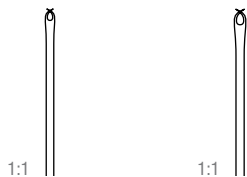


190 mm – 7 ½"	423-946-060	423-946-040	423-946-030	423-946-010
---------------	-------------	-------------	-------------	-------------

gerade
straight
droit
recta
retta

190 mm – 7 ½"	423-947-010	423-947-020	423-947-030	423-947-040
---------------	-------------	-------------	-------------	-------------

bajonett
bayonet
baionette
bayoneta
baionetta



190 mm – 7 ½"	339-186-100	339-186-180
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gerade, mit Dreh-Fixierhaken
straight, with Twist-fixationhook
droit, avec crochet de fixation
recta, con gancho de fijación
rette, con uncino di fissaggio „Twist“

Neuro-Mikro-Dissektoren

Neuro-micro dissectors

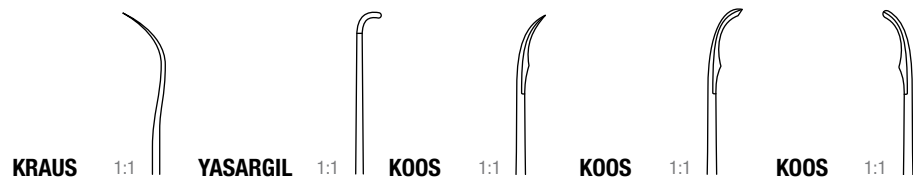
Neuro-micro dissecteurs

Disectores para micro-neurocirugía

Strumento per micro-neuro chirurgia



1:1

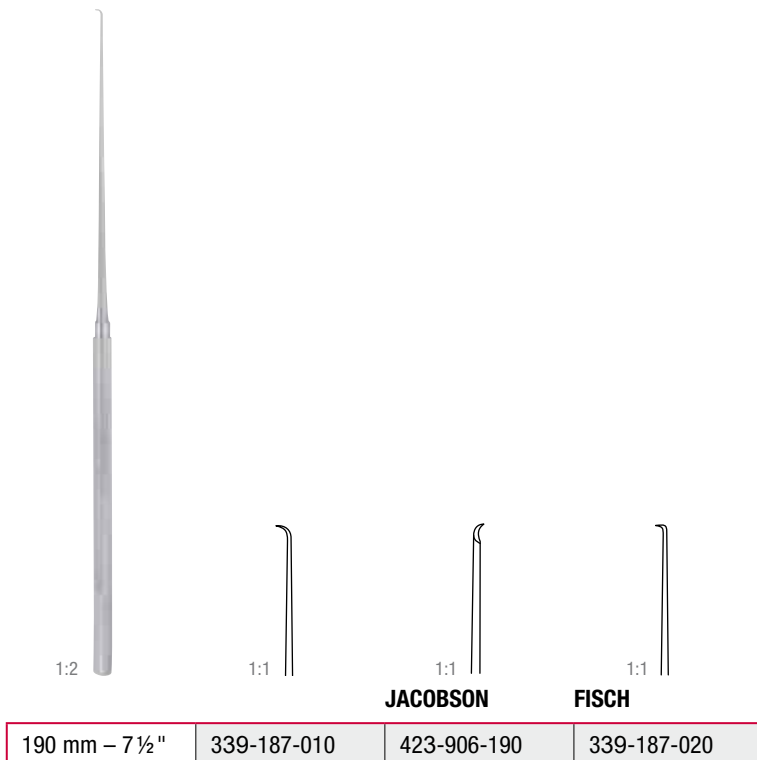
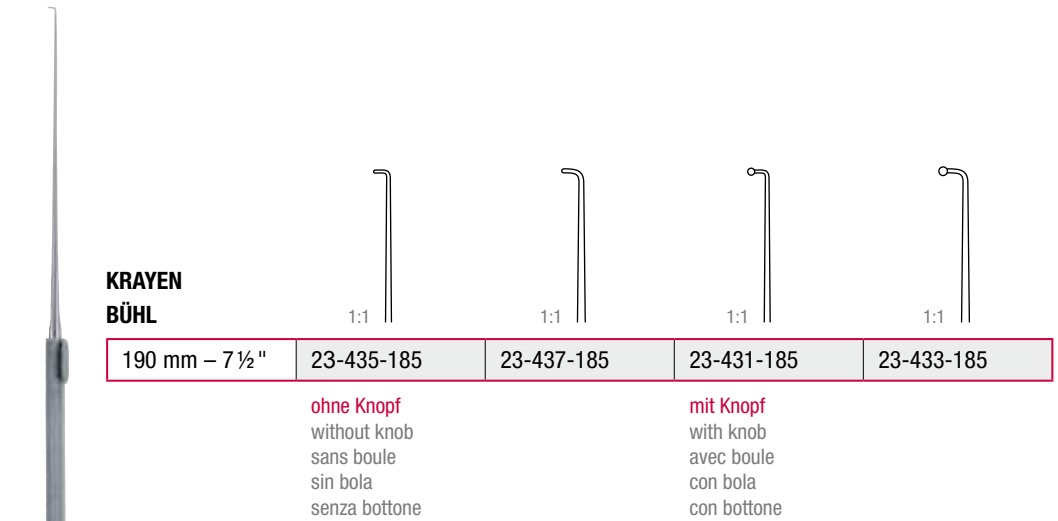
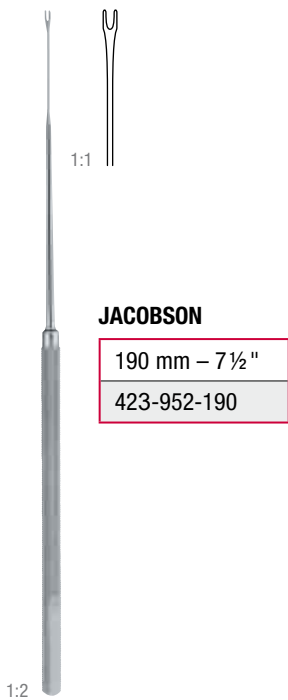


190 mm – 7 ½"	KRAUS 1:1 423-917-190	YASARGIL 1:1 423-919-190	KOOS 1:1 423-909-190	KOOS 1:1 423-911-190	KOOS 1:1 423-913-190
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bajonett
bayonet
baionette
bayoneta
baionetta

Neuro-Mikro-Dissektoren
Neuro-micro dissectors

Neuro-micro dissecteurs
Disectores para micro-neurocirugía
Strumento per micro-neuro chirurgia



Neuro-Dissektoren und Küretten
Neuro dissectors and curettes
Neuro-dissecteurs et curettes
Disectores y curetas para neurocirugía
Scollatori per neuro-chirurgia

HARDY

1:2

1:2

1:2

1:2

250 mm – 9¾"	339-828-020	339-827-020	339-827-030	339-828-010
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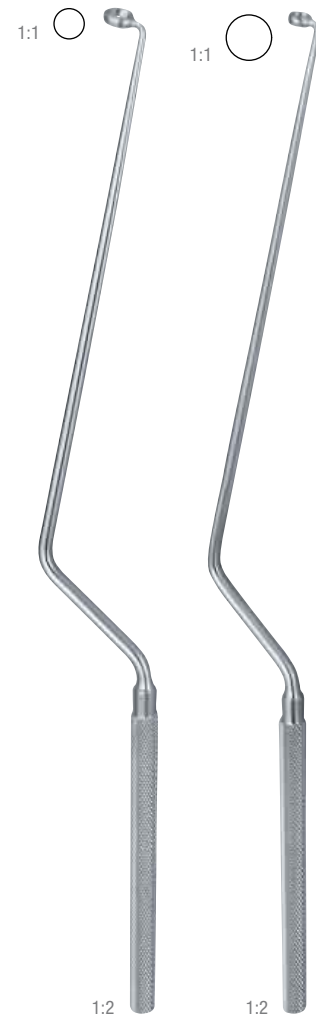
bajonett, innen scharf

bayonet, sharp inner edge

baionette, tranchant à l'interno

bayoneta, cortante al interno

baionetta, acuto all'interno


HARDY

1:2

1:2

	4 mm Ø	6 mm Ø
270 mm – 10¾"	339-811-040	339-811-060

bajonett, biegsam

bayonet, malleable

baionette, malléable

bayoneta, maleable

baionetta, flessibile

Mikro-Federscheren

Micro scissors

Micro ciseaux à ressorts

Micro tijeras con resorte

Forbici per microchirurgia



1:1



1:1



1:1

VANNAS

80 mm – 3 ¼"

04-220-085

04-223-085

Vannas-Schneide

Vannas-blade

Lame de Vannas

Hoja de Vannas

Lama Vannas

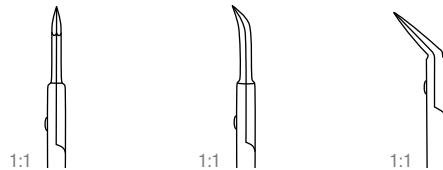
Mikro-Federscheren
Micro scissors
Micro ciseaux à ressorts
Micro tijeras con resorte
Forbici per microchirurgia


120 mm – 4 3/4"	410-752-120	410-751-110
-----------------	-------------	-------------

Schneide 10 mm, spitz
 Blade 10 mm, sharp
 Lame 10 mm, pointu
 Hoja 10 mm, agudas
 Lama 10 mm, acuta

gerade
 straight
 droit
 recta
 retta

gebogen
 curved
 courbe
 curva
 curva



120 mm – 4 3/4"	308-258-120	308-259-120	04-229-120
-----------------	-------------	-------------	------------

Vannas-Schneide
 Vannas blade
 Lama de Vannas
 Hoja de Vannas
 Vannas-lama

gerade
 straight
 droit
 recta
 retta

gebogen
 curved
 courbe
 curva
 curva

aufgewinkelt
 angled up
 angulaire
 acodada
 angolata


BIEMER

120 mm – 4 3/4"	308-256-120
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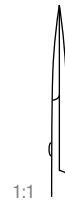
Venen-Schneide
 Vein blade
 Lame pour vènes
 Hoja para venas
 Lama per vene

gerade
 straight
 droit
 recta
 retta

Mikro-Federscheren

Micro scissors

Micro ciseaux à ressorts
Micro tijeras con resorte
Forbici per microchirurgia



160 mm – 6 1/3"	04-640-160	04-641-160	04-644-160	04-645-160
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gerade, kurze Schneide
 curved, short blades
 courbes, lames courtes
 curva, hojas cortas
 curva, lama corta

gebogen, kurze Schneide
 straight, long blades
 droites, lames longues
 recta, hojas largas
 retta, lama lunga

gerade, lange Schneide
 straight, long blades
 droites, lames longues
 recta, hojas largas
 retta, lama lunga

gebogen, lange Schneide
 curved, long blades
 courbes, lames longues
 curva, hojas largas
 curva, lama lunga



160 mm – 6 1/3"	04-642-160	04-643-160
-----------------	------------	------------

gerade, gezahnt
 straight, saw edge
 droites, dentelés
 recta, dentadas
 retta, dentata

gebogen, gezahnt
 curved, saw edge
 courbes, dentelés
 curva, dentadas
 curva, dentata

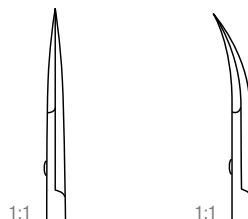


150 mm – 6"	04-647-150
180 mm – 7"	04-647-180

kniegebogen, 45°
 angled on flat, 45°
 angulaires, 45°
 acodada, 45°
 angolata, 45°

Mikro-Federscheren
Micro scissors
Micro ciseaux à ressorts
Micro tijeras con resorte
Forbici per microchirurgia


1:1

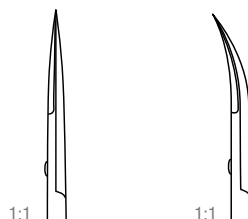


120 mm – 4 3/4"	04-620-120	04-621-120
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Lange Schneide 14 mm, glatt, spitz
 Long blades 14 mm, smooth, sharp
 Lames longues 14 mm, lisses, pointues
 Hojas largas 14 mm, lisas, agudas
 Lama lunga 14 mm, liscia, acuta

gerade
 straight
 droites
 recta
 retta

gebogen
 curved
 courbes
 curva
 curva

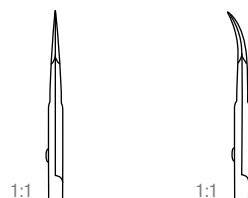


120 mm – 4 3/4"	04-642-120	04-643-120
-----------------	------------	------------

Lange Schneide 14 mm, spitz
 Long blades 14 mm, sharp
 Lames longues 14 mm, pointues
 Hojas largas 14 mm, agudas
 Lama lunga 14 mm, acuta

gerade, gezahnt
 straight, saw edge
 droites, dentelés
 recta, dentadas
 retta, dentata

gebogen, gezahnt
 curved, saw edge
 courbes, dentelés
 curva, dentadas
 curva, dentata



145 mm – 5 3/4"	308-258-145	308-259-145
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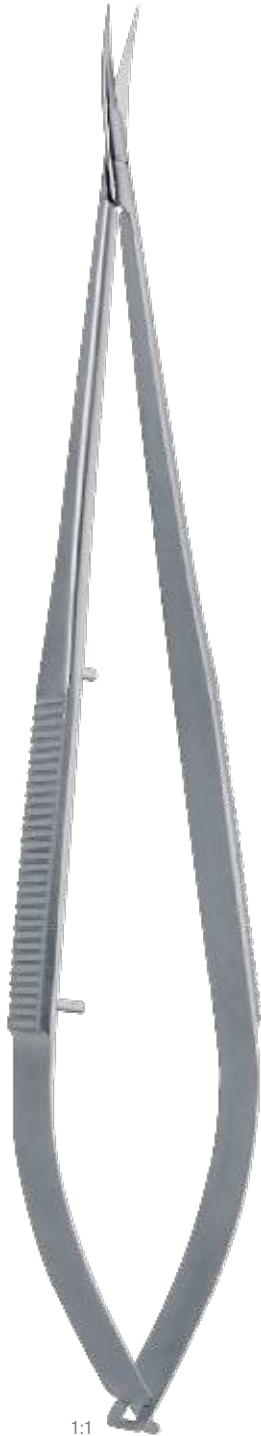
Vannas-Schneide, glatt, spitz
 Vannas-blades, smooth, sharp
 Lames de Vannas, lisses, pointues
 Hojas de Vannas, lisas, agudas
 Vannas-lama, liscia, acuta

gerade
 straight
 droites
 recta
 retta

gebogen
 curved
 courbes
 curva
 curva

Mikro-Federscheren
Micro scissors

Micro ciseaux à ressorts
Micro tijeras con resorte
Forbici per microchirurgia



YASARGIL



185 mm – 7 ¼"	04-620-185	04-621-185	410-735-190
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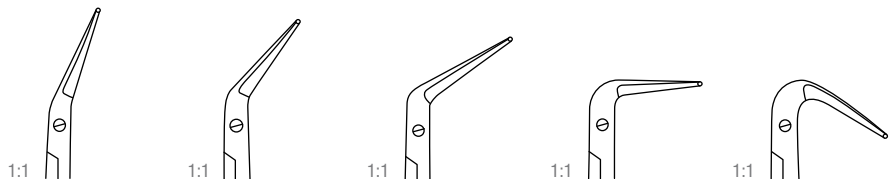
gerade
 straight
 droit
 recta
 retta

gebogen
 curved
 courbe
 curva
 curva

kniegebogen
 angled on flat
 angulaires
 acodada
 angolata

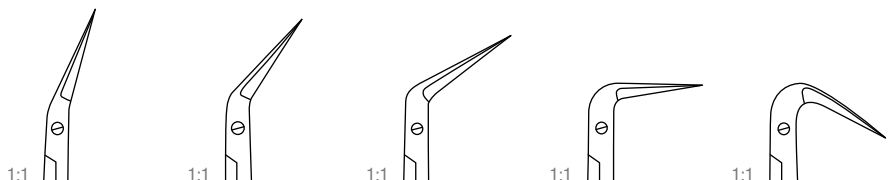
Mikro-Federscheren
Micro scissors
Micro ciseaux à ressorts
Micro tijeras con resorte
Forbici per microchirurgia


1:1


YASARGIL

	25°	45°	60°	90°	125°
170 mm – 6¾"	410-771-025	410-771-045	410-771-060	410-771-090	410-771-125

mit Knopf

 with ball
 avec bouton
 con botón
 con bottone

YASARGIL

	25°	45°	60°	90°	125°
170 mm – 6¾"	410-773-025	410-773-045	410-771-060	410-771-090	410-771-125

ohne Knopf

 without ball
 sans bouton
 sin botón
 senza bottone

Mikro-Präparierscheren

Micro dissecting scissors

Micro ciseaux à dissection

Micro tijeras de disección

Forbici per micro chirurgia con manico rotondo



145 mm – 5 3/4"	308-216-140	308-217-140	308-218-140	308-219-140
180 mm – 7"	308-216-180	308-217-180	308-218-180	308-219-180

kurze Schneide 8 mm, glatt
short blades 8 mm, smooth
lames courtes 8 mm, lisses
hojas cortas 8 mm, lisos
lama corta 8 mm, liscia

gerade, spitz
straight, sharp
droites, pointues
rectas, agudas
retta, acuta

gebogen, spitz
curved, sharp
courbes, pointues
curvas, agudas
curva, acuta

gerade, stumpf
straight, blunt
droites, mousses
rectas, romas
retta, smussa

gebogen, stumpf
curved, blunt
courbes, mousses
curvas, romas
curva, smussa



145 mm – 5 3/4"	308-216-140L	308-217-140L	308-218-140L	308-219-140L
180 mm – 7"	308-216-180L	308-217-180L	308-218-180L	308-219-180L

lange Schneide 14 mm, glatt
long blades 14 mm, smooth
lames longues 14 mm, lisses
hojas largas 14 mm, lisos
lama lunga 14 mm, liscia

gerade, spitz
straight, sharp
droites, pointues
rectas, agudas
retta, acuta

gebogen, spitz
curved, sharp
courbes, pointues
curvas, agudas
curva, acuta

gerade, stumpf
straight, blunt
droites, mousses
rectas, romas
retta, smussa

gebogen, stumpf
curved, blunt
courbes, mousses
curvas, romas
curva, smussa

Mikroscheren mit Rundgriff
Micro scissors with round handle
Micro ciseaux avec manche ronde
Micro tijeras con mango redondo
Forbici per micro chirurgia con manico rotondo

VANNAS

1:1



1:1



	7 mm Ø	7 mm Ø
120 mm – 5 "	308-222-120	308-223-120

VANNAS

1:1



1:1



	8 mm Ø	8 mm Ø
150 mm – 6 "	308-222-150	308-223-150

CASTROVIEJO

1:1



1:1



	8 mm Ø	8 mm Ø
150 mm – 6 "	308-224-150	308-225-150

Mikroscheren mit Rundgriff

Micro scissors with round handle

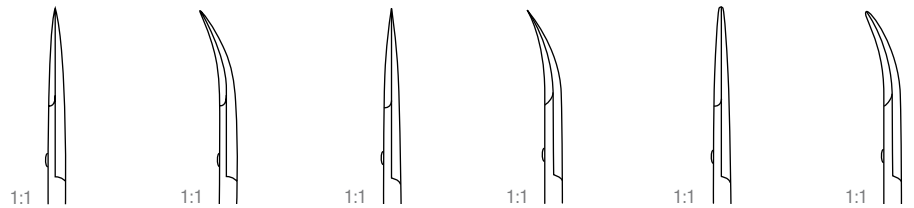
Micro ciseaux avec manche ronde

Micro tijeras con mango redondo

Forbici per micro chirurgia con manico rotondo

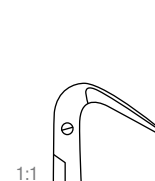
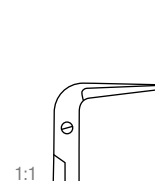
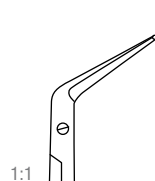
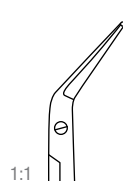
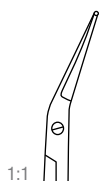


1:1



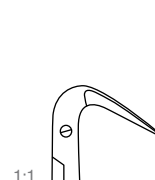
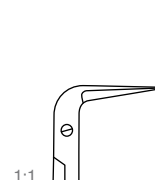
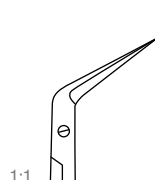
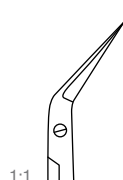
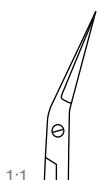
	180 mm – 7"	180 mm – 7"	180 mm – 7"	180 mm – 7"	180 mm – 7"	180 mm – 7"
10 mm Ø	308-198-180	308-199-180	04-820-180	04-821-180	04-826-180	04-827-180
	gerade, gezahnt straight, saw edge droites, dentelés recta, dentadas retta, dentata	gebogen, gezahnt curved, saw edge courbes, dentelés curva, dentadas curva, dentata	gerade, spitz straight, sharp droites, pointue recta, aguda retta, acuta	gebogen, spitz curved, sharp courbes, pointue curva, aguda curva, acuta	gerade, stumpf straight, blunt droites, mousse recta, roma retta, smussa	gebogen, stumpf curved, blunt courbes, mousse curva, roma curva, smussa

Mikroscheren mit Rundgriff
Micro scissors with round handle
Micro ciseaux avec manche ronde
Micro tijeras con mango redondo
Forbici per micro chirurgia con manico rotondo

mit gedrehtem Schluss
 90° twisted
 tordus de 90°
 giradas de 90°
 girato 90°


8 mm Ø	25°	45°	60°	90°	125°
180 mm – 7"	308-211-025	308-211-045	308-211-060	308-211-090	308-211-125

Schneide 10 mm, mit Knopf, spitz

 Blade 10 mm, with ball, sharp
 Lames 10 mm, avec bouton, pointues
 Hojas 10 mm, con botón, agudas
 Lama 10 mm, con bottone, acuta


8 mm Ø	25°	45°	60°	90°	125°
180 mm – 7"	308-210-025	308-210-045	308-210-060	308-210-090	308-210-125

Schneide 10 mm, ohne Knopf, spitz

 Blade 10 mm, without ball, sharp
 Lames 10 mm, sans bouton, pointues
 Hojas 10 mm, sin botón, agudas
 Lama 10 mm, senza bottone, acuta

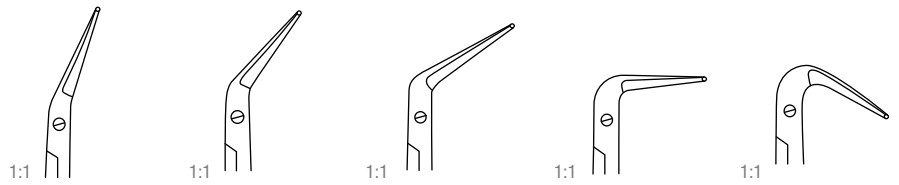
Mikroscheren mit Rundgriff

Micro scissors with round handle

Micro ciseaux avec manche ronde

Micro tijeras con mango redondo

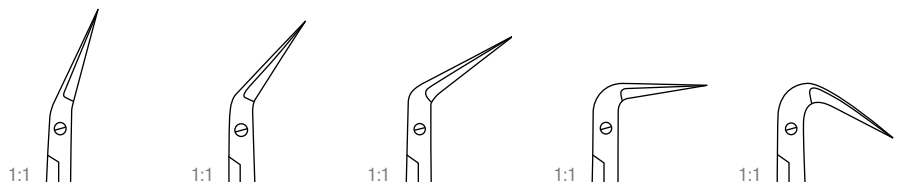
Forbici per micro chirurgia con manico rotondo



8 mm Ø	25°	45°	60°	90°	125°
180 mm – 7"	308-209-025	308-209-045	308-209-060	308-209-090	308-209-125

mit Knopf

with ball
avec bouton
con botón
con bottone



8 mm Ø	25°	45°	60°	90°	125°
180 mm – 7"	308-208-025	308-208-045	308-208-060	308-208-090	308-208-125

ohne Knopf

without ball
sans bouton
sin botón
senza bottone

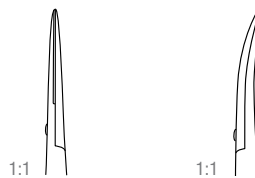
Mikroscheren mit Rundgriff

Micro scissors with round handle

Micro ciseaux avec manche ronde

Micro tijeras con mango redondo

Forbici per micro chirurgia con manico rotondo



	9 mm Ø	9 mm Ø
150 mm – 6"	308-206-150	308-207-150

Mikro-Federscheren
Micro scissors

Micro ciseaux à ressorts
Micro tijeras con resorte
Forbici per microchirurgia



JACOBSON



160 mm – 6 ¼ "	04-629-155	04-631-155	410-749-160
180 mm – 7 "	04-629-185	04-631-185	410-749-190

gerade
 straight
 droites
 recta
 retta

gebogen
 curved
 courbes
 curva
 curva

abgewinkelt, 45°
 angled, 45°
 angulaires, 45°
 acodada, 45°
 angolata, 45°



160 mm – 6 ¼ "	04-633-155	04-635-155
180 mm – 7 "	04-633-185	04-635-185

Vannas Schneide
 Vannas blade
 Lame de Vannas
 Hoja de Vannas
 Lama Vannas

Mikro-Federscheren

Micro scissors

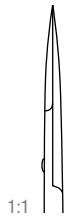
Micro ciseaux à ressorts

Micro tijeras con resorte

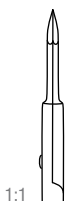
Forbici per microchirurgia



**YASARGIL-
MOD.**



180 mm – 7 "	410-746-190	410-747-190
225 mm – 8 ¾ "	04-629-225	04-631-225



220 mm – 8 ¾ "	04-633-225	04-635-225
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Vannas Schneide

Vannas blade

Lame de Vannas

Hoja de Vannas

Lama Vannas

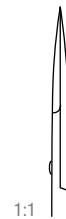
Mikro-Federscheren

Micro scissors

Micro ciseaux à ressorts

Micro tijeras con resorte

Forbici per microchirurgia



200 mm – 8"	04-616-001	04-616-002	04-616-003	04-616-004
225 mm – 8¾"	04-618-001	04-618-002	04-618-003	04-618-004

Schneide glatt, spitz
Blade smooth, sharp
Lames lisses, pointues
Hojas lisas, agudas
Lama liscia, acuta

gerade
straight
droites
recta
retta

gebogen
curved
courbes
curva
curva

gerade, gezahnt
straight, saw edge
droites, dentelés
recta, dentadas
retta, dentata

gebogen, gezahnt
curved, saw edge
courbes, dentelés
curva, dentadas
curva, dentata



200 mm – 8"	04-616-005	04-616-006
225 mm – 8¾"	04-618-005	04-618-006

Vannas Schneide

Vannas blade
Lame de Vannas
Hoja de Vannas
Lama Vannas

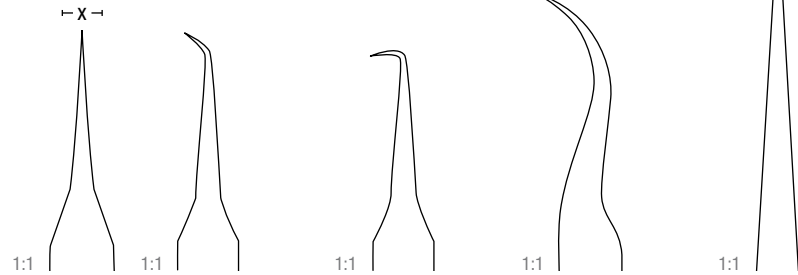


200 mm – 8"	04-616-007	04-616-008
225 mm – 8¾"	04-618-007	04-618-008

Präparier-Schneide, stumpf

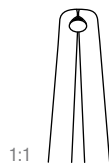
Dissector blade, blunt
Lames de dissection, moussé
Hojas de dissección, roma
Lama da dissezione, smussa

Fixierpinzetten – Gefäßdilatoren
Fixation forceps – Vascular dilators
Pinces à fixation – Dilatateurs vasculaires
Pinzas de fixaciòn – Dilatadores vasculares
Pinze di fissaggio – Pinze per allargare i vasi

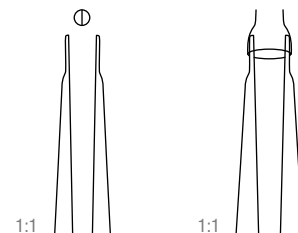
TYP
JUWELIER


x = 0.2 mm	x = 0.3 mm	x = 0.3 mm	x = 0.2 mm	x = 0.3 mm
110 mm – 4 ¼ "	110 mm – 4 ¼ "	110 mm – 4 ¼ "	120 mm – 4 ¾ "	120 mm – 4 ¾ "
07-962-004	07-962-045	07-962-090	07-962-005	07-962-001

Titan	Titan	Titan
x = 0.2 mm	x = 0.3 mm	x = 0.3 mm
110 mm – 4 ¼ "	110 mm – 4 ¼ "	110 mm – 4 ¼ "
10-962-004	10-962-045	10-962-090


PIERSE


120 mm – 4 ¾ "	07-980-120
135 mm – 5 ¼ "	07-980-135



	x = 0.2 mm	x = 0.3 mm
110 mm – 4 ¼ "	07-969-007	07-969-008

sehr fein
 very fine
 très fin
 muy fino
 molto fino

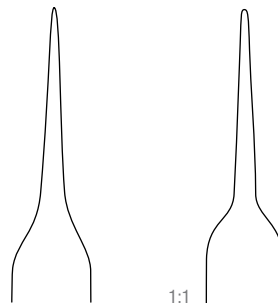
Mikro-Knüpfpinzetten

Micro suture tying forceps

Pinces à fixation – Dilatateurs vasculaires

Pinzas de fixaciòn – Dilatadores vasculares

Pinze di fissaggio – Pinze per allargare i vasi



LAZAR

	0.5 mm	0.8 mm
155 mm – 6"	08-260-155	08-262-155


Mikropinzetten
Micro forceps
Micro pinces
Micro pinzas
Pinze per microchirurgia


8 mm Ø	0.3 mm	0.3 mm	0.3 mm	0.3 mm
120 mm – 4 ¾"	08-220-120	08-221-120		
150 mm – 6"	08-230-150	08-231-150	08-230-150Z	08-231-150Z
180 mm – 7"	08-220-180	08-221-180	08-220-180Z	08-221-180Z
210 mm – 8 ¼"	08-230-210	08-231-210	08-230-210Z	08-231-210Z
230 mm – 9"	08-230-230	08-231-230	08-230-230Z	08-231-230Z

Fadenplatte 6,0 mm x 0,3 mm, glatt

Tying platform 6.0 mm x 0.3 mm, smooth

Plate-forme 6.0 mm x 0.3 mm, lisse

Plataforma 6.0 mm x 0.3 mm, lisa

Piano per sutura 6.0 mm x 0.3 mm, liscio

1 x 2

1 x 2



	Titan	Titan	Titan	Titan
8 mm Ø	0.3 mm	0.3 mm	0.3 mm	0.3 mm
150 mm – 6"	08-230-150T	08-231-150T	08-230-150ZT	08-231-150ZT
180 mm – 7"	08-230-180T	08-231-180T	08-230-180ZT	08-231-180ZT
210 mm – 8 ¼"	08-230-210T	08-231-210T	08-230-210ZT	08-231-210ZT

Fadenplatte 6,0 mm x 0,3 mm, glatt

Tying platform 6.0 mm x 0.3 mm, smooth

Plate-forme 6.0 mm x 0.3 mm, lisse

Plataforma 6.0 mm x 0.3 mm, lisa

Piano per sutura 6.0 mm x 0.3 mm, liscio

1 x 2

1 x 2



8 mm Ø	0.7 mm	0.7 mm	0.7 mm	0.7 mm
150 mm – 6"	08-226-150	08-227-150	08-223-150Z	08-225-150Z
180 mm – 7"	08-226-180	08-227-180	08-223-180Z	08-225-180Z
210 mm – 8 ¼"	08-226-210	08-227-210	08-223-210Z	08-225-210Z
230 mm – 9"	08-226-230	08-227-230	08-223-230Z	08-225-230Z

Fadenplatte 6,0 mm x 0,7 mm, glatt

Tying platform 6.0 mm x 0.7 mm, smooth

Plate-forme 6.0 mm x 0.7 mm, lisse

Plataforma 6.0 mm x 0.7 mm, lisa

Piano per sutura 6.0 mm x 0.7 mm, liscio

1 x 2

1 x 2

	Titan	Titan	Titan	Titan
8 mm Ø	0.7 mm	0.7 mm	0.7 mm	0.7 mm
150 mm – 6"	08-226-150T	08-227-150T	08-223-150ZT	08-225-150ZT
180 mm – 7"	08-226-180T	08-227-180T	08-223-180ZT	08-225-180ZT
210 mm – 8 ¼"	08-226-210T	08-227-210T	08-223-210ZT	08-225-210ZT

Fadenplatte 6,0 mm x 0,7 mm, glatt

Tying platform 6.0 mm x 0.7 mm, smooth

Plate-forme 6.0 mm x 0.7 mm, lisse

Plataforma 6.0 mm x 0.7 mm, lisa

Piano per sutura 6.0 mm x 0.7 mm, liscio

1 x 2

1 x 2

Mikropinzetten

Micro forceps

Micro pincers

Micro pinzas

Pinze per microchirurgia



	Diamond Coated	Diamond Coated	Diamond Coated	Diamond Coated
8 mm Ø	0.3 mm	0.3 mm	0.3 mm	0.3 mm
150 mm – 6 "	08-230-150D	08-231-150D	08-230-150ZD	08-231-150ZD
180 mm – 7 "	08-220-180D	08-221-180D	08-220-180ZD	08-221-180ZD
210 mm – 8 ¼ "	08-230-210D	08-231-210D	08-230-210ZD	08-231-210ZD
230 mm – 9 "	08-230-230D	08-231-230D	08-230-230ZD	08-231-230ZD

Fadenplatte 6,0 mm x 0,3 mm

Tying platform 6.0 mm x 0.3 mm

Plate-forme 6.0 mm x 0.3 mm

Plataforma 6.0 mm x 0.3 mm

Piano per sutura 6.0 mm x 0.3 mm

1 x 2

1 x 2



	Diamond Coated	Diamond Coated	Diamond Coated	Diamond Coated
8 mm Ø	0.7 mm	0.7 mm	0.7 mm	0.7 mm
150 mm – 6 "	08-226-150D	08-227-150D	08-223-150ZD	08-225-150ZD
180 mm – 7 "	08-226-180D	08-227-180D	08-223-180ZD	08-225-180ZD
210 mm – 8 ¼ "	08-226-210D	08-227-210D	08-223-210ZD	08-225-210ZD
230 mm – 9 "	08-226-230D	08-227-230D	08-223-230ZD	08-225-230ZD

Fadenplatte 6,0 mm x 0,7 mm

Tying platform 6.0 mm x 0.7 mm

Plate-forme 6.0 mm x 0.7 mm

Plataforma 6.0 mm x 0.7 mm

Piano per sutura 6.0 mm x 0.7 mm

1 x 2

1 x 2

Mikropinzetten
Micro forceps
Micro pincers
Micro pinzas
Pinze per microchirurgia

JACOBSON


160 mm – 6 ¼ "	08-121-160	08-125-160	08-127-160	08-123-160
185 mm – 7 ¼ "	08-121-185	08-125-185	08-127-185	08-123-185

gerade, spitz
 straight, sharp
 droites, pointues
 rectas, agudas
 retta, acuta

gerade, stumpf
 straight, blunt
 droites, mousses
 rectas, romas
 retta, smussa

abgewinkelt, spitz
 angled, sharp
 angulaire, pointue
 acodada, aguda
 angolata, acuta

abgewinkelt, stumpf
 angled, blunt
 angulaire, mousse
 acodada, roma
 angolata, smussa

	Diamond Coated	Diamond Coated	Diamond Coated	Diamond Coated
160 mm – 6 ¼ "	08-121-160D	08-125-160D	08-127-160D	08-123-160D
185 mm – 7 ¼ "	08-121-185D	08-125-185D	08-127-185D	08-123-185D

gerade, spitz
 straight, sharp
 droites, pointues
 rectas, agudas
 retta, acuta

gerade, stumpf
 straight, blunt
 droites, mousses
 rectas, romas
 retta, smussa

abgewinkelt, spitz
 angled, sharp
 angulaire, pointue
 acodada, aguda
 angolata, acuta

abgewinkelt, stumpf
 angled, blunt
 angulaire, mousse
 acodada, roma
 angolata, smussa

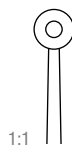
Mikropinzetten

Micro forceps

Micro pincers

Micro pinzas

Pinze per microchirurgia



YASARGIL

	225 mm – 8 ¾ "	225 mm – 8 ¾ "	225 mm – 8 ¾ "
3.0 mm	07-165-220	07-196-220	07-177-220
5.0 mm	07-167-220	07-197-220	07-179-220

löffelförmig
 spoon form
 forme de cuillère
 forma de cuchara
 forma di cucchiaio

flach gezahnt
 plan toothed
 dentelé
 dentada
 dentato

kürettenförmig
 curette form
 forme de curette
 forma de cureta
 forma di curetta

Mikropinzetten
Micro forceps
Micro pincers
Micro pinzas
Pinze per microchirurgia

YASARGIL

160 mm – 1 1/3 "	310-502-160	310-505-160
180 mm – 1 1/2 "	310-502-180	310-505-180
200 mm – 8 "	310-502-200	310-505-200
225 mm – 8 3/4 "	310-502-220	310-505-220
240 mm – 9 1/2 "	310-502-240	310-505-240

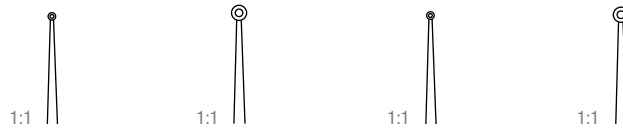
gerade, spitz
 straight, sharp
 droites, pointues
 rectas, agudas
 retta, acuta

gerade, stumpf
 straight, blunt
 droites, mousses
 rectas, romas
 retta, smussa

Mikro-Ringpinzetten

Micro ring forceps

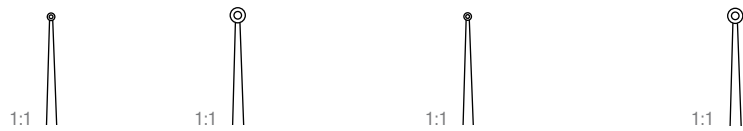
Micro pinces avec anneaux
 Micro pinzas con anillos
 Micro pinze con anelli



			Diamond Coated	Diamond Coated
9 mm Ø	1.0 x 0.5 mm	2.0 x 1.0 mm	1.0 x 0.5 mm	2.0 x 1.0 mm
150 mm – 6"	08-280-150	08-280-151	08-280-150D	08-280-151D
180 mm – 7"	08-280-180	08-280-181	08-280-180D	08-280-181D
210 mm – 8¼"	08-280-210	08-280-211	08-280-210D	08-280-211D
230 mm – 9"	08-280-230	08-280-231	08-280-230D	08-280-231D

glatt
 smooth
 lisse
 lisa
 liscia

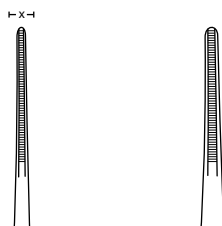
glatt
 smooth
 lisse
 lisa
 liscia



	Titan	Titan	Titan / Diamond Coated	Titan / Diamond Coated
9 mm Ø	1.0 x 0.5 mm	2.0 x 1.0 mm	1.0 x 0.5 mm	2.0 x 1.0 mm
150 mm – 6"	08-280-150T	08-280-151T	08-280-150DT	08-280-151DT
180 mm – 7"	08-280-180T	08-280-181T	08-280-180DT	08-280-181DT
210 mm – 8¼"	08-280-210T	08-280-211T	08-280-210DT	08-280-211DT
230 mm – 9"	08-280-230T	08-280-231T	08-280-230DT	08-280-231DT

glatt
 smooth
 lisse
 lisa
 liscia

glatt
 smooth
 lisse
 lisa
 liscia

Atraumatische Mikropinzetten
Atraumatic micro forceps
Micro pinces atraumatiques
Micro pinzas atraumáticas
Micro pinze atraumatiche


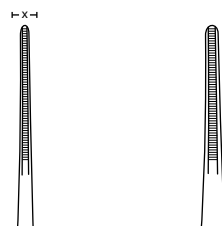
	Atrauma	Atrauma	Atrauma	Atrauma
	x = 1.2 mm	x = 1.8 mm	x = 1.2 mm	x = 1.8 mm
150 mm – 6"	08-300-150	08-304-150	08-301-150	08-305-150
180 mm – 7"	08-300-180	08-304-180	08-301-180	08-305-180
210 mm – 8¼"	08-300-210	08-304-210	08-301-210	08-305-210
230 mm – 9"	08-300-230	08-304-230	08-301-230	08-305-230

gerade
 straight
 droites
 recta
 retta

gerade
 straight
 droites
 recta
 retta

abgewinkelt
 angled
 angulaire
 acodada
 angolata

abgewinkelt
 angled
 angulaire
 acodada
 angolata



	Titan	Titan	Titan	Titan
	x = 1.2 mm	x = 1.8 mm	x = 1.2 mm	x = 1.8 mm
150 mm – 6"	08-300-150T	08-304-150T	08-301-150T	08-305-150T
180 mm – 7"	08-300-180T	08-304-180T	08-301-180T	08-305-180T
210 mm – 8¼"	08-300-210T	08-304-210T	08-301-210T	08-305-210T
230 mm – 9"	08-300-230T	08-304-230T	08-301-230T	08-305-230T

gerade
 straight
 droites
 recta
 retta

gerade
 straight
 droites
 recta
 retta

abgewinkelt
 angled
 angulaire
 acodada
 angolata

abgewinkelt
 angled
 angulaire
 acodada
 angolata

Mikronadelhalter
Micro needle holders
Micro porte aiguilles
Micro porta agujas
Micro porta aghi



1:1

CASTROVIEJO



1:1



1:1



1:1



1:1

			Diamond Coated	Diamond Coated
x = 11.0 mm x 0.75 mm				
140 mm – 5 ½"	18-860-140	18-861-140	18-860-140D	18-861-140D

ohne Sperre, feines Maul
 without ratchet, fine jaws
 sans crémaillère, mors fine
 sin cremallera, boca fina
 senza cremagliera, morso fino

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curva

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curva

			Diamond Coated	Diamond Coated
x = 11.0 mm x 0.75 mm				
140 mm – 5 ½"	18-870-140	18-871-140	18-870-140D	18-871-140D

mit Sperre, feines Maul
 with ratchet, fine jaws
 avec crémaillère, mors fine
 con cremallera, boca fina
 con cremagliera, morso fino

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curva

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curva

Mikronadelhalter
Micro needle holders
Micro porte aiguilles
Micro porta agujas
Micro porta aghi

JACOBSON

			Diamond Coated	Diamond Coated
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
185 mm – 7 1/3"	18-620-185	18-621-185	18-620-185D	18-621-185D

ohne Sperre
 without ratchet
 sans crémaillère
 sin cremallera
 senza cremagliera

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curvo

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curvo

			Diamond Coated	Diamond Coated
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
185 mm – 7 1/3"	18-622-185	18-623-185	18-622-185D	18-623-185D

mit Sperre
 with ratchet
 avec crémaillère
 con cremallera
 con cremagliera

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curvo

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curvo



	almedur	almedur	almedur	almedur
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
180 mm – 7"	19-636-180	19-637-180	19-638-180	19-639-180

ohne Sperre
 without ratchet
 sans crémaillère
 sin cremallera
 senza cremagliera

gerade, glatt
 straight, smooth
 droit, lisse
 curva, lisa
 retto, liscio

gebogen, glatt
 curved, smooth
 courbe, lisse
 curva, lisa
 curvo, liscio

gerade, gerieft
 straight, serrated
 droit, strié
 recta, estriada
 retto, zigrinato

gebogen, gerieft
 curved, serrated
 courbe, strié
 curva, estriada
 curvo, zigrinato

	almedur	almedur	almedur	almedur
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
180 mm – 7"	19-640-180	19-641-180	19-644-180	19-645-180

mit Sperre
 with ratchet
 avec crémaillère
 con cremallera
 con cremagliera

gerade, glatt
 straight, smooth
 droit, lisse
 curva, lisa
 retto, liscio

gebogen, glatt
 curved, smooth
 courbe, lisse
 curva, lisa
 curvo, liscio

gerade, gerieft
 straight, serrated
 droit, strié
 recta, estriada
 retto, zigrinato

gebogen, gerieft
 curved, serrated
 courbe, strié
 curva, estriada
 curvo, zigrinato



Mikronadelhalter
Micro needle holders
Micro porte aiguilles
Micro porta agujas
Micro porta aghi



YASARGIL

			Diamond Coated	Diamond Coated
180 mm – 7 "	419-040-180	419-041-180	419-040-180D	419-041-180D
200 mm – 8 "	419-040-200	419-041-200	419-040-200D	419-041-200D

ohne Sperre
 without ratchet
 sans crémaillère
 sin cremallera
 senza cremagliera

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curva

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curvo

			Diamond Coated	Diamond Coated
180 mm – 7 "	419-044-180	419-045-180	419-044-180D	419-045-180D
200 mm – 8 "	419-044-200	419-045-200	419-044-200D	419-045-200D

mit Sperre
 with ratchet
 avec crémaillère
 con cremallera
 con cremagliera

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curva

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curvo

Mikronadelhalter mit Rundgriff
Micro needle holders with round handle
Micro porte aiguilles avec manche ronde
Micro porta agujas con mango redondo
Micro porta aghi con manico rotondo


1:1

YASARGIL


			Diamond Coated	Diamond Coated
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
210 mm – 8 ¼ "	323-652-210	323-653-210	323-652-210D	323-653-210D

ohne Sperre
 without ratchet
 sans crémaillère
 sin cremallera
 senza cremagliera

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curvo

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curvo

			Diamond Coated	Diamond Coated
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
210 mm – 8 ¼ "	323-654-210	323-655-210	323-654-210D	323-655-210D

mit Sperre
 with ratchet
 avec crémaillère
 con cremallera
 con cremagliera

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curvo

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curvo



	almedur	almedur	almedur	almedur
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
210 mm – 8 ¼ "	323-652-210TCG	323-653-210TCG	323-652-210TCS	323-653-210TCS

ohne Sperre
 without ratchet
 sans crémaillère
 sin cremallera
 senza cremagliera

gerade, glatt
 straight, smooth
 droit, lisse
 curva, lisa
 retto, liscio

gebogen, glatt
 curved, smooth
 courbe, lisse
 curva, lisa
 curvo, liscio

gerade, gerieft
 straight, serrated
 droit, strié
 recta, estriada
 retto, zigrinato

gebogen, gerieft
 curved, serrated
 courbe, strié
 curva, estriada
 curvo, zigrinato

	almedur	almedur	almedur	almedur
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
210 mm – 8 ¼ "	323-654-210TCG	323-655-210TCG	323-654-210TCS	323-655-210TCS

mit Sperre
 with ratchet
 avec crémaillère
 con cremallera
 con cremagliera

gerade, glatt
 straight, smooth
 droit, lisse
 curva, lisa
 retto, liscio

gebogen, glatt
 curved, smooth
 courbe, lisse
 curva, lisa
 curvo, liscio

gerade, gerieft
 straight, serrated
 droit, strié
 recta, estriada
 retto, zigrinato

gebogen, gerieft
 curved, serrated
 courbe, strié
 curva, estriada
 curvo, zigrinato

Mikronadelhalter mit Rundgriff

Micro needle holders with round handle

Micro porte aiguilles avec manche ronde

Micro porta agujas con mango redondo

Micro porta aghi con manico rotondo



110 mm – 4 ¼ "	18-780-110	18-781-110
125 mm – 5 "	18-780-125	18-781-125
130 mm – 5 "	18-780-130	18-781-130
150 mm – 6 "	18-780-150	18-781-150
180 mm – 7 "	18-780-180	18-781-180

ohne Sperre
without ratchet
sans crémaillère
sin cremallera
senza cremagliera

gerade
straight
droites
recta
retto

gebogen
curved
courbes
curva
curva

110 mm – 4 ¼ "	18-782-110	18-783-110
125 mm – 5 "	18-782-125	18-783-125
130 mm – 5 "	18-782-130	18-783-130
150 mm – 6 "	18-782-150	18-783-150
180 mm – 7 "	18-782-180	18-783-180

mit Sperre
with ratchet
avec crémaillère
con cremallera
con cremagliera

gerade
straight
droites
recta
retto

gebogen
curved
courbes
curva
curva

Mikronadelhalter mit Rundgriff
Micro needle holders with round handle
Micro porte aiguilles avec manche ronde
Micro porta agujas con mango redondo
Micro porta aghi con manico rotondo


1:1

BARRAQUER


				Diamond Coated	Diamond Coated
140 mm – 5 ½ "	8 mm Ø	323-648-140	323-649-140	323-648-140D	323-649-140D

ohne Sperre, sehr feines Maul
 without ratchet, extra delicate jaws
 sans crémaillère, mors très fine
 sin cremallera, boca muy fina
 senza cremagliera, morso molto fino

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curva

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbe
 curva
 curvo

				Diamond Coated	Diamond Coated
140 mm – 5 ½ "	8 mm Ø	323-658-140	323-659-140	323-658-140D	323-659-140D

mit Sperre, sehr feines Maul
 with ratchet, extra delicate jaws
 avec crémaillère, mors très fine
 con cremallera, boca muy fina
 con cremagliera, morso molto fino

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curva

gerade
 straight
 droites
 recta
 retto

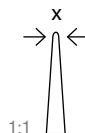
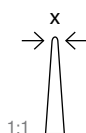
gebogen
 curved
 courbes
 curva
 curva

Mikronadelhalter
Micro needle holders
Micro porte aiguilles
Micro porta agujas
Micro porta aghi



150 mm – 6 "	9 mm Ø	323-646-150
--------------	--------	-------------

ohne Sperre, gebogen
without ratchet, curved
sans crémaillère, courbe
sin cremallera, curvo
senza cremagliera, curvo

Mikronadelhalter mit gedrehtem Schluss
Micro needle holders, 90° twisted
Micro porte aiguilles, tordus de 90°
Micro porta agujas, giradas de 90°
Porta aghi per micro-neurochirurgia


	x = 0.4 mm	x = 0.4 mm	x = 0.9 mm	x = 0.9 mm
200 mm – 8 "	323-704-200	323-705-200	323-706-200	323-707-200
225 mm – 8 ¾ "	323-704-220	323-705-220	323-706-220	323-707-220
240 mm – 9 ½ "	323-704-240	323-705-240	323-706-240	323-707-240

ohne Sperre
 without ratchet
 sans crémaillère
 sin cremallera
 senza cremagliera

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curva

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curva

	Diamond Coated	Diamond Coated	Diamond Coated	Diamond Coated
	x = 0.4 mm	x = 0.4 mm	x = 0.9 mm	x = 0.9 mm
200 mm – 8 "	323-704-200D	323-705-200D	323-706-200D	323-707-200D
225 mm – 8 ¾ "	323-704-220D	323-705-220D	323-706-220D	323-707-220D
240 mm – 9 ½ "	323-704-240D	323-705-240D	323-706-240D	323-707-240D

ohne Sperre, diamantiert
 without ratchet, diamond coated
 sans crémaillère, diamanté
 sin cremallera, diamantada
 senza cremagliera, diamantato

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curva

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curva



Diese Nadelhalter sind auch mit Sperre erhältlich.

These needle holders are also available with ratchet.

Ces porte aiguilles sont également disponibles avec crémaillère.

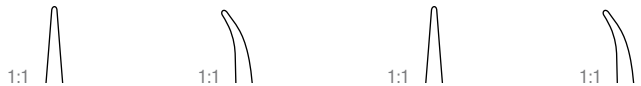
Estas porta agujas también son disponibles con cremallera.

Questi port'aghi son fornibili anche con cremagliera.

Mikronadelhalter
Micro needle holders
Micro porte aiguilles
Micro porta agujas
Micro porta aghi



1:1



JACOBSON

			Diamond Coated	Diamond Coated
180 mm – 7"	18-631-185	18-633-185	18-631-185D	18-633-185D

ohne Sperre
 without ratchet
 sans crémaillère
 sin cremallera
 senza cremagliera

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curva

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curva

			Diamond Coated	Diamond Coated
180 mm – 7"	18-635-185	18-637-185	18-635-185D	18-637-185D

mit Sperre
 with ratchet
 avec crémaillère
 con cremallera
 con cremagliera

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curva

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curva



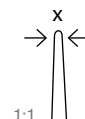
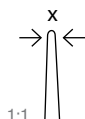
Diese Nadelhalter sind auch mit Sperre erhältlich.

These needle holders are also available with ratchet.

Ces porte aiguilles sont également disponibles avec crémaillère.

Estas porta agujas también son disponibles con cremallera.

Questi port'aghi sono fornibili anche con cremagliera.

Mikronadelhalter
Micro needle holders
Micro porte aiguilles
Micro porta agujas
Micro porta aghi


			Diamond Coated	Diamond Coated
9 mm Ø	x = 1.0 mm	x = 1.0 mm	x = 1.0 mm	x = 1.0 mm
230 mm – 9"	18-641-001	18-641-002	18-641-003D	18-641-004D

ohne Sperre
 without ratchet
 sans crémaillère
 sin cremallera
 senza cremagliera

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curvo

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curvo

			Diamond Coated	Diamond Coated
9 mm Ø	x = 1.0 mm	x = 1.0 mm	x = 1.0 mm	x = 1.0 mm
230 mm – 9"	18-643-001	18-643-002	18-643-003D	18-643-004D

mit Sperre
 with ratchet
 avec crémaillère
 con cremallera
 con cremagliera

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curvo

gerade
 straight
 droites
 recta
 retto

gebogen
 curved
 courbes
 curva
 curvo



	almedur	almedur	almedur	almedur
9 mm Ø				
230 mm – 9"	19-651-001	19-651-002	19-651-003	19-651-004

ohne Sperre
 without ratchet
 sans crémaillère
 sin cremallera
 senza cremagliera

gerade, glatt
 straight, smooth
 droit, lisse
 curva, lisa
 retto, liscio

gebogen, glatt
 curved, smooth
 courbe, lisse
 curva, lisa
 curvo, liscio

gerade, gerieft
 straight, serrated
 droit, strié
 recta, estriada
 retto, zigrinato

gebogen, gerieft
 curved, serrated
 courbe, strié
 curva, estriada
 curvo, zigrinato

	almedur	almedur	almedur	almedur
9 mm Ø				
230 mm – 9"	19-653-001	19-653-002	19-653-003	19-653-004

mit Sperre
 with ratchet
 avec crémaillère
 con cremallera
 con cremagliera

gerade, glatt
 straight, smooth
 droit, lisse
 curva, lisa
 retto, liscio

gebogen, glatt
 curved, smooth
 courbe, lisse
 curva, lisa
 curvo, liscio

gerade, gerieft
 straight, serrated
 droit, strié
 recta, estriada
 retto, zigrinato

gebogen, gerieft
 curved, serrated
 courbe, strié
 curva, estriada
 curvo, zigrinato

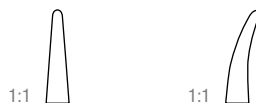
1:1

Mikronadelhalter
Micro needle holders
Micro porte aiguilles
Micro porta agujas
Micro porta aghi



	Titan	Titan
	0.3 mm x 0.4 mm	0.3 mm x 0.4 mm
180 mm – 7"	20-202-180	20-203-180

mit Sperre
 with ratchet
 avec crémaillère
 con cremallera
 con cremagliera



	Titan	Titan
	0.8 mm x 0.8 mm	0.8 mm x 0.8 mm
185 mm – 7 ¼"	20-200-185	20-201-185

mit Sperre
 with ratchet
 avec crémaillère
 con cremallera
 con cremagliera

Mikronadelhalter
Micro needle holders
Micro porte aiguilles
Micro porta agujas
Micro porta aghi



	Titan	Titan
	0.5 mm x 0.8 mm	0.5 mm x 0.8 mm
200 mm – 8 "	20-216-200	20-217-200

mit Sperre
with ratchet
avec crémaillère
con cremallera
con cremagliera



	Titan	Titan	Titan	Titan
	0.4 x 0.6 mm	0.4 x 0.6 mm	0.6 x 0.6 mm	0.6 x 0.6 mm
200 mm – 8 "	20-208-200	20-209-200	20-210-200	20-211-200

mit Sperre
with ratchet
avec crémaillère
con cremallera
con cremagliera

Mikronadelhalter
Micro needle holders
Micro porte aiguilles
Micro porta agujas
Micro porta aghi



1:1



225 mm – 8 3/4 "	18-650-225	18-651-225
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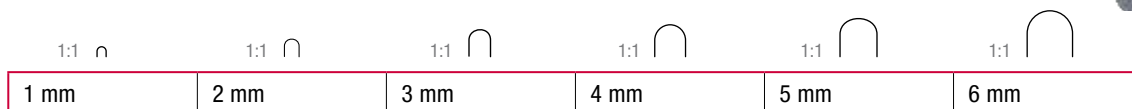
	almedur	almedur
225 mm – 8 3/4 "	19-650-225	19-651-225

	Titan	Titan
225 mm – 8 3/4 "	20-650-225	20-651-225

ohne Sperre
 without ratchet
 sans crémaillère
 sin cremallera
 senza cremagliera

	Titan	Titan
225 mm – 8 3/4 "	18-652-225	18-653-225
225 mm – 8 3/4 "	20-652-225	20-653-225

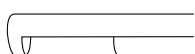
mit Sperre
 with ratchet
 avec crémaillère
 con cremallera
 con cremagliera

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


1 mm	2 mm	3 mm	4 mm	5 mm	6 mm
------	------	------	------	------	------

FERRIS-SMITH-KERRISON


	x = 150mm – 6"	x = 180 mm – 7"	x = 200 mm – 8"	x = 230 mm – 9"
1 mm	28-414-001	339-506-010	339-502-010	28-430-001
2 mm	28-414-002	28-420-002	339-502-020	28-430-002
3 mm	28-414-003	28-420-003	339-502-030	28-430-003
4 mm	28-414-004	339-506-040	339-502-040	28-430-004
5 mm	28-414-005	28-420-005	339-502-050	28-430-005
6 mm	28-414-006	339-506-060	339-502-060	28-430-006



1 mm	28-416-001	339-507-010	339-500-010	28-432-001
2 mm	28-416-002	28-422-002	339-500-020	28-432-002
3 mm	28-416-003	28-422-003	339-500-030	28-432-003
4 mm	28-416-004	339-507-040	339-500-040	28-432-004
5 mm	28-416-005	28-422-005	339-500-050	28-432-005
6 mm	28-416-006	339-507-060	339-500-060	28-432-006

Laminektomiestanzen

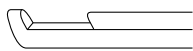
Laminectomy punches

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

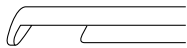


1 mm	2 mm	3 mm	4 mm	5 mm	6 mm
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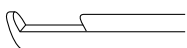
FERRIS-SMITH-KERRISON



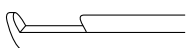
	x = 150mm - 6"	x = 180 mm - 7"	x = 200 mm - 8"	x = 230 mm - 9"
1 mm	28-418-001	339-508-010	339-503-010	28-434-001
2 mm	28-418-002	28-424-002	339-503-020	28-434-002
3 mm	28-418-003	28-424-003	339-503-030	28-434-003
4 mm	28-418-004	339-508-040	339-503-040	28-434-004
5 mm	28-418-005	28-424-005	339-503-050	28-434-005
6 mm	28-418-006	339-508-060	339-503-060	28-434-006



1 mm		339-509-010	339-519-010	
2 mm		339-509-020	339-519-020	28-436-002
3 mm		339-509-030	339-519-030	28-436-003
4 mm		339-509-040	339-519-040	28-436-004
5 mm		339-509-050	339-519-050	28-436-005
6 mm		339-509-060	339-519-060	28-436-006



1 mm		339-511-010		
2 mm		339-511-020		
3 mm		339-511-030		



1 mm		339-513-010		
2 mm		339-513-020		
3 mm		339-513-030		



Dünne Fußplatte
 Thin footplate
 Plaque de coupe étroite
 Lámina de punción estrecha
 Battente sottile

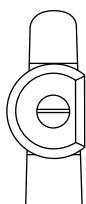
Zerlegbare Laminektomiestanzen
Dismantable laminectomy punches

Pinces emporte-pièces démontables à laminectomie
Pinzas cortantes desmontables para laminectomía
Pinze taglienti smontabili per laminectomia

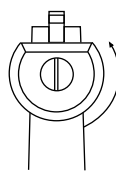
Einfaches Zerlegen und Montieren
easy dismantling and assembling
Démontage et montage facile
Sencillo desmontaje y montaje
Semplicità di smontaggio e assemblaggio

zerlegbar für leichtes Reinigen und bessere Hygiene
dismantable for easy cleaning and better hygiene
démontable pour nettoyage facile et meilleure hygiène
desmontable para una óptima limpieza y esterilización
smontare signifi ca avere maggiore pulizia ed igiene

Zerlegen
Dismantling
Démontage
Desmontaje
Smontaggio



geschlossene Position
closed position
position fermée
posición cerrada
posizione chiuso



Drehung zum Öffnen
turn to open
position ouverture
girar para abrir
giro per aprire

1. Öffnen der Verschlusscheibe durch Vierteldrehung.
opening of the locking nut by a quarter turn.
Tourner la disque arrière de 90° à gauche pour ouvrir.
Girar de 90° el disco de cierre.
Girare di 90° il disco di chiusura.

2. Den Schlitten (oberes Stanzteil) nach hinten abziehen.
Pulling backwards of the upper cutting part.
Tirer la partie supérieure vers l'arrière.
Tirar la parte superior del vástago hacia atrás.
Sfi lare la slitta (parte superiore) tirandola indietro.



Zerlegbare Laminektomiestanzen

Dismantable laminectomy punches

Pinces emporte-pièces démontables à laminectomie

Pinzas cortantes desmontables para laminectomía

Pinze taglienti smontabili per laminectomia

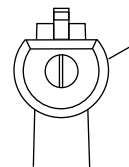
Zuordnung
relation
Classement
Asignación
Aggiungere

- des oberen Stanzteils zum Basis-Instrument erfolgt durch Nummern-Code.
- the upper cutting part with the basic instrument is related by numerical codes.
- des pièces démontées par un code numérique.
- de las partes desmontadas a través un código numérico.
- unire la slitta e lo strumento base con lo stesso codice di riferimento.

Montieren
Assembling
Montage
Montaje
Montaggio

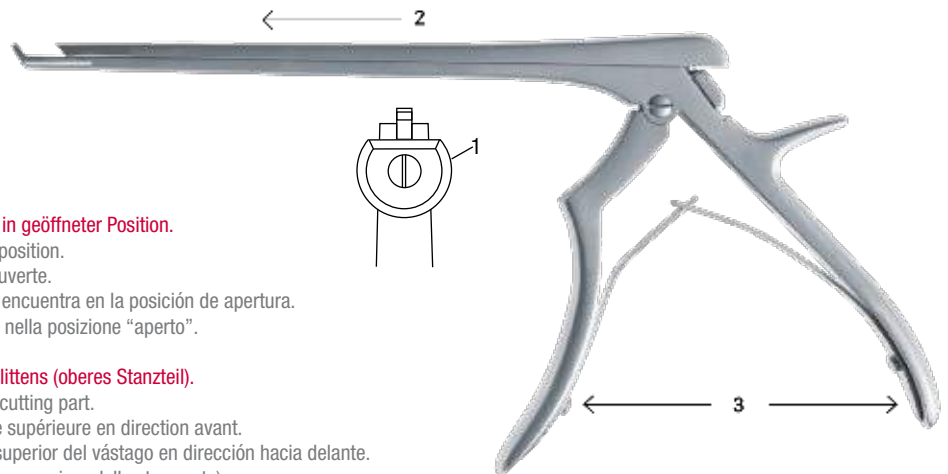
1. Verschlusscheibe ist in geöffneter Position.

Locking nut in open position.
Disque en position ouverte.
El disco de cierre se encuentra en la posición de apertura.
Il disco di chiusura è nella posizione "aperto".



2. Aufschieben des Schlittens (oberes Stanzteil).

Positioning of upper cutting part.
Faire glisser la partie supérieure en direction avant.
Posecionar la parte superior del vástago en dirección hacia delante.
Inserire la slitta (parte superiore dello strumento).

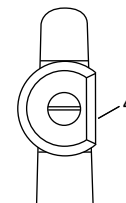


3. Zangenmaul schliessen durch Zusammendrücken der beiden Griffenden.

closing of punch jaws by pressing both handles.
Serrer la poignée.
Cerrar el bocado (punta) de la pinza comprimiendo el mango.
Chiudere il morso della pinza premendo il manico.

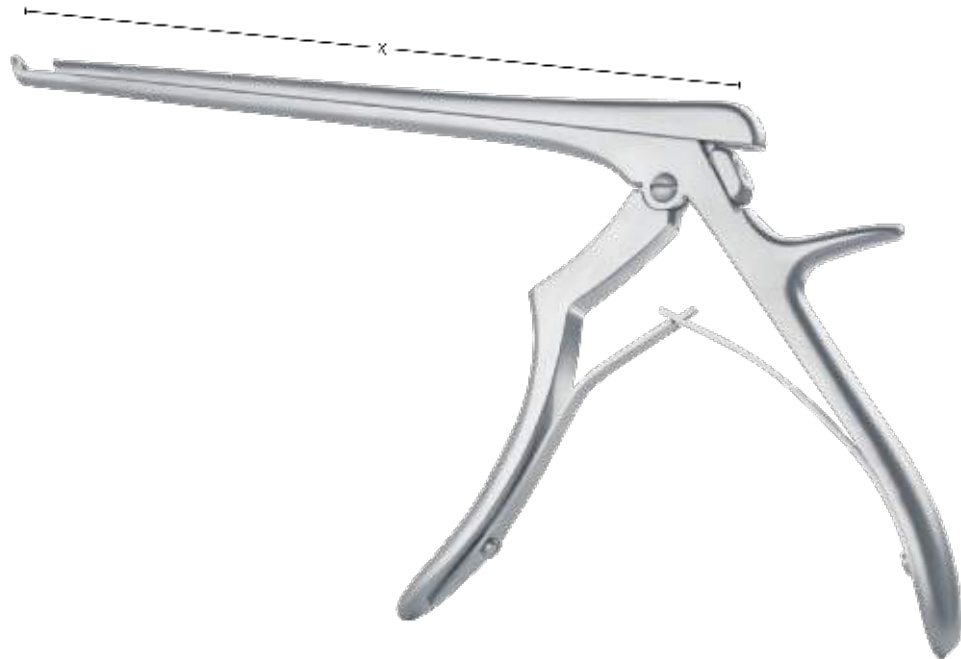
4. Verriegelung durch Verschlusschraube (eine Vierteldrehung nachrechts).







interlocking of locking screw by a quarter turn to the right side.
Pour fermer tourner la disque arrière de 90° à droite.
Bloquear la pinza girando el disco de cierre de 90°.
Chiudere la pinza con un giro di 90° del disco di chiusura.



Einsatzbereit
ready for use
Pince prêt pour l'utilisation
La pinza está lista para su uso
Lo strumento è pronto

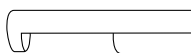


Zerlegbare Laminektomiestanzen
Dismantable laminectomy punches
Pinces emporte-pièces démontables à laminectomie
Pinzas cortantes desmontables para laminectomía
Pinze taglienti smontabili per laminectomia


1:1 	1:1 	1:1 	1:1 	1:1 	1:1 
1 mm	2 mm	3 mm	4 mm	5 mm	6 mm

FERRIS-SMITH-KERRISON


	x = 180 mm – 7"	x = 200 mm – 8"	x = 230 mm – 9"
1 mm	339-506-010Z	339-502-010Z	28-430-001Z
2 mm	28-420-002Z	339-502-020Z	28-430-002Z
3 mm	28-420-003Z	339-502-030Z	28-430-003Z
4 mm	339-506-040Z	339-502-040Z	28-430-004Z
5 mm	28-420-005Z	339-502-050Z	28-430-005Z
6 mm	339-506-060Z	339-502-060Z	28-430-006Z



1 mm	339-507-010Z	339-500-010Z	28-432-001Z
2 mm	298-422-002Z	339-500-020Z	28-432-002Z
3 mm	28-422-003Z	339-500-030Z	28-432-003Z
4 mm	339-507-040Z	339-500-040Z	28-432-004Z
5 mm	28-422-005Z	339-500-050Z	28-432-005Z
6 mm	339-507-060Z	339-500-060Z	28-432-006Z

Zerlegbare Laminektomiestanzen

Dismantable laminectomy punches

Pinces emporte-pièces démontables à laminectomie

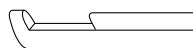
Pinzas cortantes desmontables para laminectomía

Pinze taglienti smontabili per laminectomia

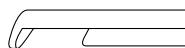


1 mm	2 mm	3 mm	4 mm	5 mm	6 mm
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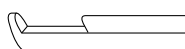
FERRIS-SMITH-KERRISON



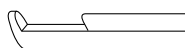
	x = 180 mm - 7 "	x = 200 mm - 8 "	x = 230 mm - 9 "
1 mm	339-508-010Z	339-503-010Z	28-434-001Z
2 mm	28-424-002Z	339-503-020Z	28-434-002Z
3 mm	28-424-003Z	339-503-030Z	28-434-003Z
4 mm	339-508-040Z	339-503-040Z	28-434-004Z
5 mm	28-424-005Z	339-503-050Z	28-434-005Z
6 mm	339-508-060Z	339-503-060Z	28-434-006Z



1 mm	339-509-010Z	339-519-010Z	
2 mm	339-509-020Z	339-519-020Z	28-436-002Z
3 mm	339-509-030Z	339-519-030Z	28-436-003Z
4 mm	339-509-040Z	339-519-040Z	28-436-004Z
5 mm	339-509-050Z	339-519-050Z	28-436-005Z
6 mm	339-509-060Z	339-519-060Z	28-436-006Z



1 mm	339-511-010Z		
2 mm	339-511-020Z		
3 mm	339-511-030Z		



1 mm	339-513-010Z		
2 mm	339-513-020Z		
3 mm	339-513-030Z		



Dünne Fußplatte

Thin footplate

Plaque de coupe étroite

Lámina de punción estrecha

Battente sottile

Laminektomiestanzen

Laminectomy punches

Pinces emporte-pièces à laminectomie

Pinzas cortantes para laminectomía

Pinze taglianti per laminectomia



1:1 

1:1 

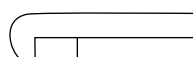
3 mm

5 mm

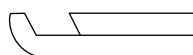
COLCLOUGH



	$x = 150 \text{ mm} - 6''$	$x = 200 \text{ mm} - 8''$
3 mm	28-320-150	28-320-200
5 mm	28-322-150	28-322-200



3 mm	28-330-150	28-330-200
5 mm	28-332-150	28-332-200



3 mm	28-380-150	28-380-200
5 mm	28-382-150	28-382-200

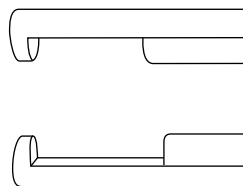
Laminektomiestanzen
Laminectomy punches

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



5 mm

FERRIS-SMITH-KERRISON

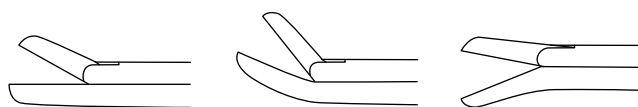



	$x = 180 \text{ mm} - 7''$
5 mm	28-252-050


5 mm	28-250-050
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Laminektomiestanzen
Laminectomy punches

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


 1:1 
CUSHING

	2 mm x 10 mm	2 mm x 10 mm	2 mm x 10 mm
x = 130 mm – 5"	28-730-130	28-733-130	28-735-130
x = 180 mm – 7"	28-730-180	28-733-180	28-735-180
x = 220 mm – 8¾"	28-730-220	28-733-220	28-735-220

 1:1 
LOVE-GRUENWALD

	3 mm x 10 mm	3 mm x 10 mm	3 mm x 10 mm
x = 130 mm – 5"	28-770-130	28-773-130	28-775-130
x = 150 mm – 6"	28-770-150	28-773-150	28-775-150
x = 180 mm – 7"	28-770-180	28-773-180	28-775-180

 1:1 
SPURLING

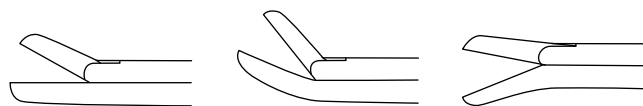
	4 mm x 10 mm	4 mm x 10 mm	4 mm x 10 mm
x = 150 mm – 6"	28-820-150	28-823-150	28-825-150
x = 180 mm – 7"	28-820-180	28-823-180	28-825-180
x = 230 mm – 9"	28-820-230	28-823-230	28-825-230

 1:1 
CLOWARD

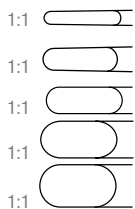
	6 mm x 10 mm
x = 180 mm – 7"	28-830-180

Laminektomiestanzen
Laminectomy punches

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



FERRIS-SMITH



	x = 180 mm – 7"	x = 180 mm – 7"	x = 180 mm – 7"
2 mm x 10 mm	28-720-002	339-451-020	339-453-020
3 mm x 10 mm	28-720-003	339-451-030	339-453-030
4 mm x 10 mm	28-720-004	339-451-040	339-453-040
5 mm x 10 mm	28-720-005	339-451-050	339-453-050
6 mm x 10 mm	28-720-006	339-451-060	339-453-060



Andere Längen und Ausführungen sind auf Anfrage lieferbar.
 Other lengths and executions are available upon request.
 Autres longueurs et exécutions sont disponibles sur demande.
 Otras longitudes y dimensiones son disponibles según demanda.
 Altre lunghezze e modelli fornibili a richiesta.

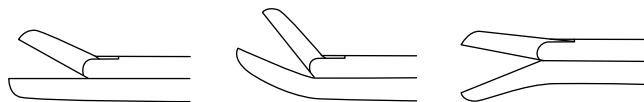
Laminektomiestanzen

Laminectomy punches

Pinces emporte-pièces à laminectomie

Pinzas cortantes para laminectomía

Pinze taglianti per laminectomia



CASPAR



	x = 155 mm – 6"	x = 155 mm – 6"	x = 155 mm – 6"
2 mm	339-466-020	339-467-020	339-469-020
3 mm	339-466-030	339-467-030	339-469-030
4 mm	339-466-040	339-467-040	339-469-040
5 mm	339-466-050		

Laminektomiestanzen

Laminectomy punches

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



OLDBERG

$x = 180 \text{ mm} - 7''$	3.5 mm Ø	6.0 mm Ø
	28-912-035	28-912-065



SCHLESINGER

	2 mm x 10 mm	3 mm x 10 mm	4 mm x 10 mm
	$x = 125 \text{ mm} - 5''$	$x = 125 \text{ mm} - 5''$	$x = 125 \text{ mm} - 5''$
190 mm - 7½''	423-994-020	423-994-030	423-994-040

gezahnt
 saw edge
 dentelé
 dentada
 dentata

Laminektomiestanzen
Laminectomy punches

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



Maul gefenestert und gezahnt
 Jaw fenestrated and serrated
 Mors fenêtré et dentelé
 Boca con orificio y dentada
 Morso finestrato e dentellato


CASPAR

	x = 140 mm – 5 ½"	x = 160 mm – 6 ¼"	x = 185 mm – 7 ¼"
2 mm x 12 mm	339-456-200	339-460-200	339-464-200
3 mm x 12 mm	339-456-300	339-460-300	339-464-300
4 mm x 14 mm	339-456-400	339-460-400	339-464-400
5 mm x 14 mm	339-456-500	339-460-500	339-464-500
6 mm x 16 mm	339-456-600	339-460-600	339-464-600



	x = 140 mm – 5 ½"	x = 160 mm – 6 ¼"	x = 185 mm – 7 ¼"
2 mm x 12 mm	339-457-200	339-461-200	
2.5 mm x 12 mm	339-457-250	339-461-250	339-465-300
4 mm x 14 mm	339-457-400	339-461-400	339-465-400
5 mm x 14 mm	339-457-500	339-461-500	339-465-500



	x = 140 mm – 5 ½"	x = 160 mm – 6 ¼"	x = 185 mm – 7 ¼"
2 mm x 12 mm	339-459-200	339-463-200	
3 mm x 12 mm	339-459-250	339-463-250	339-471-300
4 mm x 14 mm	339-459-400	339-463-400	339-471-400

Laminektomiestanzen
Laminectomy punches

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



**WEIL-
BLAKESLEY**

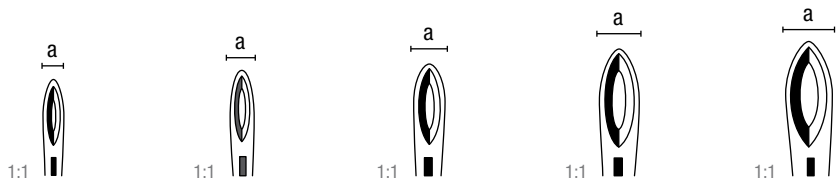


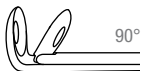
	Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5
	a = 3.0 mm	a = 3.5 mm	a = 4.5 mm	a = 5.0 mm	a = 5.5 mm



x = 120 mm – 4 3/4"	45-321-001	45-321-002	45-321-003	45-321-004	45-321-005
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x = 120 mm – 4 3/4"	45-319-001	45-319-002	45-319-003	45-319-004	
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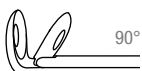


x = 120 mm – 4 3/4"	45-317-001	45-317-002	45-317-003		
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	Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5
	a = 3.0 mm	a = 3.5 mm	a = 4.5 mm	a = 5.0 mm	a = 5.5 mm



x = 180 mm – 7"	345-223-010	345-223-020	345-223-030	345-223-040	345-223-050
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x = 180 mm – 7"	345-225-010	345-225-020	345-225-030	345-225-040	
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