HKH BROTHERS SURGICAL

MICRO AND NEURO SURGICAL INSTRUMENTS

Ultra-Precision for Delicate Procedures

- Superior Sharpness
- Precision Crafted
- Durable Performance
- Trusted by Professionals



Schädelhalter
Cervical traction tongs

Pinces de traction crânienne
Pinzas de tracción cranial
Pinze per trazione craniale


1:3

CRUTCHFIELD

13-101-000


1:3

13-102-000


1:3

13-104-000

gross 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 ajjustabili, non necesisita di perforare, regolabili


1:3 1:3

	3.5 mm Ø	5.0 mm Ø
13-103-035	x	
13-103-050		x

Satz à 2 Stück für 13-101-000 und 13-102-000
Set of 2 pieces for 13-101-000 and 13-102-000
Jeu à 2 pièces pour 13-101-000 et pour 13-102-000
Juego con 2 piezas para 13-101-000 y para 13-102-000
Completo con 2 pezzi per 13-101-000 e per 13-102-000

13-105-000

Ersatzdorn für 13-104-000
Spare pin for 13-104-000
Goupille de rechange pour 13-104-000
Perno de cambio para 13-104-000
Punta di ricambio 13-104-000


1:2

13-106-190

Gabelschlüssel, doppelendig zu 13-104-000
Wrench, double-ended for 13-104-000
Clé de fixation, pour 13-104-000
Llave de tuercas, para 13-104-000
Chiave per 13-104-000

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


1:3

HUDSON

270 mm – 10¾ "	13-108-000

Handbohrapparate alleine
Hand drills only
Perforateurs à main seul
Perforadores a mano sólo
Perforatori a mano solo

270 mm – 10¾ "	13-108-016

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

13-108-009

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
13-108-001	13-108-002	13-108-003	13-108-004

CUSHING 1:2



14 mm Ø
13-108-005

MCKENZIE 1:2



13 mm Ø
13-109-070

instrumente zur Schädelöffnung
Instruments for cranial opening
Instruments pour l'ouverture du crâne
Instrumentos para apertura craneana
Strumenti per l'apertura del cranio



1:2

DE VILBISS

210 mm – 8 ¼ "	13-111-210



ADSON 1:2

150 mm – 6 "	13-110-150



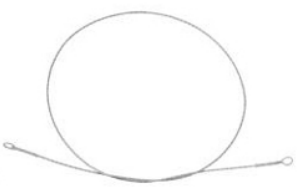
DE MARTEL 1:2

330 mm – 13 "
13-112-330



OLIVECRONA

300 mm – 12 "	13-113-300
400 mm – 16 "	13-113-400
500 mm – 20 "	13-113-500
600 mm – 23 ½ "	13-113-600
700 mm – 27 ½ "	13-113-700



GIGLI

300 mm – 12 "	13-114-300
400 mm – 16 "	13-114-400
500 mm – 20 "	13-114-500

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

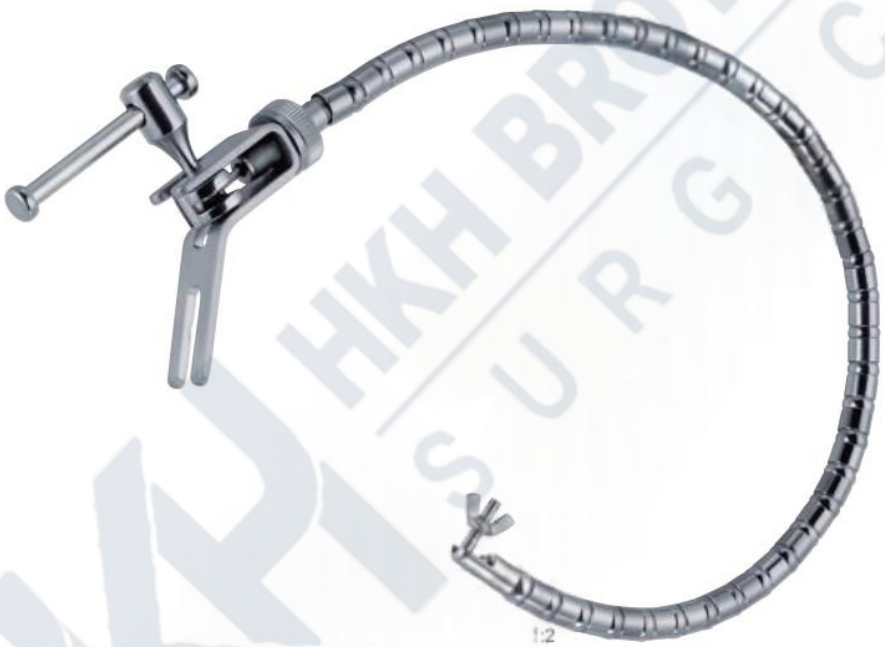


1:2

GIGLI

13-115-000

Selbsthaltender hirnretraktor
Self-retaining brain retractor
Retracteur cérébrale autostatique
Separador cerebral autostático
Rettratore celebrale autostatico



	13-117-000
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 Rettratore celebrale autostatico, flessibile Completo, contente: supporto di fissaggio per un braccio, 1 braccio flessible con supporto di fissaggio per spatole piatte	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 autostatico, 2 brazos flejibles con soporte, completo con brazos y soporte para 2 spatulas llanas Rettratore celebrale autostatico, flessibile con 2 bracci completi, contiene: supporto di fissaggio per bracci per 2 spatole piatte

Selbsthaltender hirnretraktor
Self-retaining brain retractor

Retracteur cérébrale autostatique
Separador cerebral autostático
Rettratore celebrale autostatico



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

13-118-050

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

13-118-090

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

13-118-100

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

13-118-080

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 flejible sólo para montar sobre soportes
Braccio flessibile sólo – per il montaggio sul supporto di fissaggio

hirnspatel
Brain spatula
Spatules cérébrales
Espátulas cerebrales
Spatole celebrali







CUSHING

	180 mm – 7 "
7 mm x 9 mm	13-119-070
11 mm x 13 mm	13-119-110
15 mm x 18 mm	13-119-150
18 mm x 22 mm	13-119-180

OLIVECRONA

	180 mm – 7 "	180 mm – 7 "
7 mm x 9 mm	13-120-007	13-121-007
11 mm x 13 mm	13-120-011	13-121-011
15 mm x 18 mm	13-120-015	13-121-015
18 mm x 22 mm	13-120-018	13-121-018

konvex
convex
convexe
convexa
convessa

konkav
concave
concave
cóncava
concava

HEIFETZ

	200 mm – 8 "
x = 8 mm	13-122-080
x = 11 mm	13-122-110
x = 14 mm	13-122-140
x = 17 mm	13-122-170
x = 20 mm	13-122-200

biegsam
malleable
malléable
maleable
flessibile

McKenzie instrumentarium
McKenzie instruments
McKenzie instruments
Instrumentos McKenzie
Strumenti McKenzie





MCKENZIE

150 mm – 6 "	13-123-150	13-124-150
190 mm – 7½ "	13-123-190	13-124-190

Zangen zum Anlegen der Klammern
Clip applying forceps
Pinces pour poser des agrafes
Pinzas para poner grapas
Pinze per mettere le agraffes



MCKENZIE 1:2

148 mm x 40 mm x 6 mm – 5¾ " x 1 ½ " x ½ "13-125-000

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



1:1

13-126-100

100 Klammern im Plastikbehälter
100 Brain clips in plastic box
100 agrafes dans un tube de plastique
100 grapas en tubo de plástico
100 agraffes 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 – 5½"	13-127-145



RANEY

150 mm – 6"	13-128-000



13-129-000

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

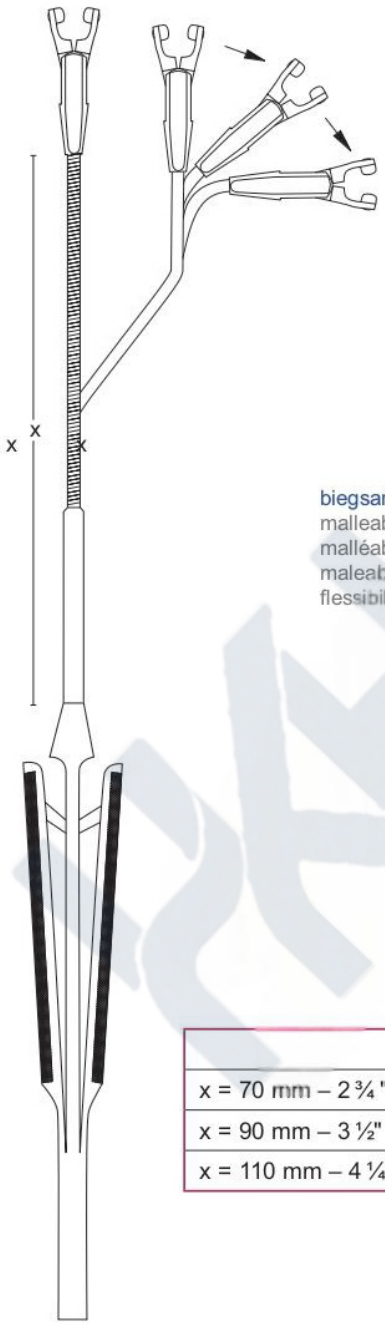


13-130-000

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)
Agraffes 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



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 – 2 ¾ "	13-131-002	13-132-002
x = 90 mm – 3 ½"	13-131-004	13-132-004
x = 110 mm – 4 ¼ "	13-131-006	13-132-006

nicht drehbar
non rotating
non rotatif
no rotatorio
non rotativo

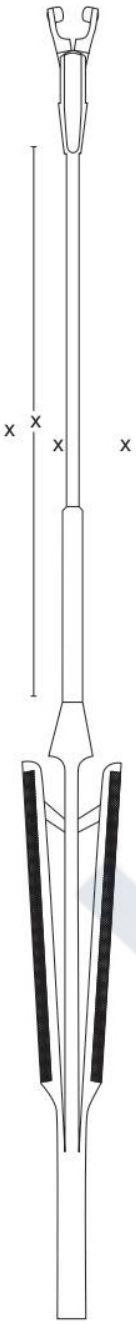


Mini	Standard
13-131-020	13-132-020
13-131-022	13-132-022
13-131-024	13-132-024

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

x



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



	Mini	Standard
x = 70 mm – 2¾"	13-133-002	13-134-002
x = 90 mm – 3½"	13-133-004	13-134-004
x = 110 mm – 4¼"	13-133-006	13-134-006

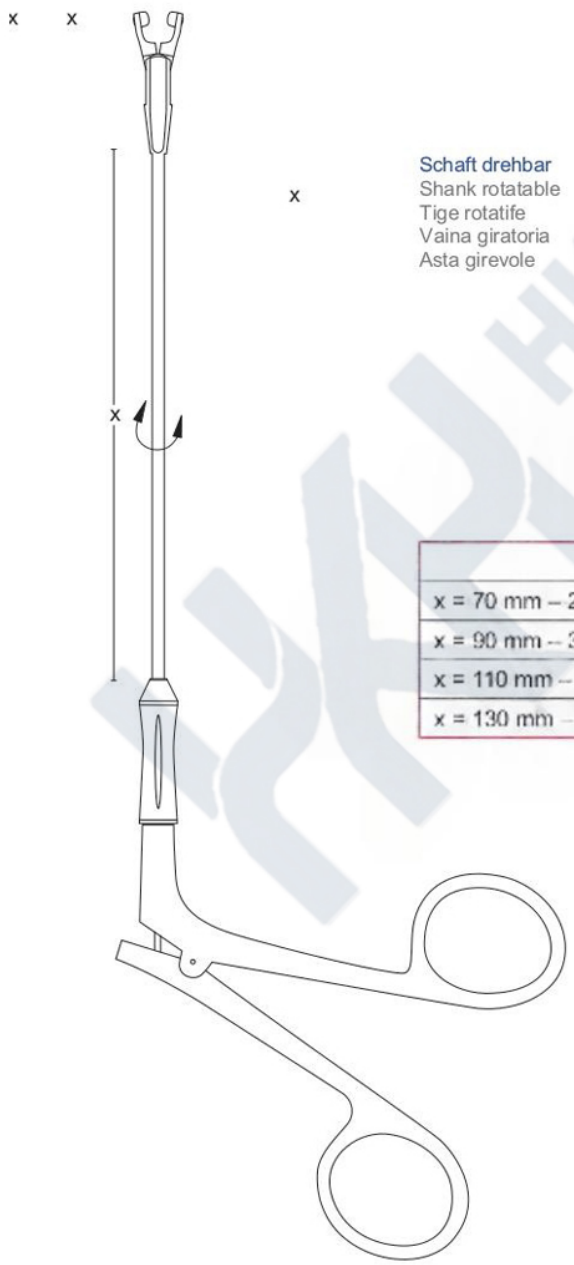
nicht drehbar
non rotating
non rotatif
no rotatorio
non rotativo



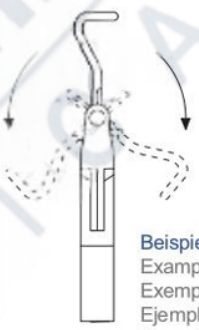
Mini	Standard
13-133-020	13-134-020
13-133-022	13-134-022
13-133-024	13-134-024

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 rotatife
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"	13-135-270	13-136-270
x = 90 mm – 3½"	13-135-290	13-136-290
x = 110 mm – 4¼"	13-135-310	13-136-310
x = 130 mm – 5"	13-135-330	13-136-330

nicht drehbar
non rotating
non rotatif
no rotatorio
non rotativo



Mini	Standard
13-135-070	13-136-070
13-135-090	13-136-090
13-135-110	13-136-110
13-135-130	13-136-130

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 "	13-137-170	13-138-170	13-137-370	13-138-370
21 mm – 8¼ "	13-137-210	13-138-210	13-137-410	13-138-410
23 mm – 9 "	13-137-230	13-138-230	13-137-430	13-138-430

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

drehbar
rotating
rotatif
rotatorio
rotativo

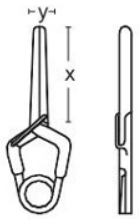


	Mini	Standard	Mini	Standard
18 mm – 7 "	13-139-180	340-774-180	13-139-280	340-774-280

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

drehbar
rotating
rotatif
rotatorio
rotativo

aneurysmen gefäßclips
Aneurysm vessel clips
Anévrisme clips
Aneurisma clips
Clips per aneurisma e vasi



x	y	gms
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

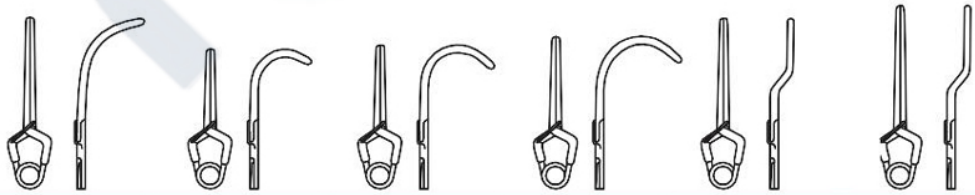
YASARGIL-STANDARD
für permanenten Verschluss, mit Fenster 3.5 mm, aus hochwertigem Implantatstahl, antimagnetisch
for permanent closure, with window 3.5 mm, in high quality implant steel, antimagnetic
pour fermeture permanente, avec fenestra 3.5 mm, acier de haute qualité, anti-magnétique
para oclusión 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 = 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
13-140-550	13-141-600	13-142-680	13-143-800	13-143-106	13-143-114	13-143-133
13-140-550T	13-141-600T	13-142-680T	13-143-800T	13-143-106T	13-143-114T	13-143-133T

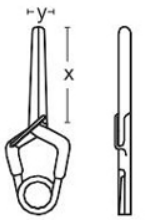


x = 7.0 mm	x = 9.0 mm	x = 11.0 mm	x = 15.0 mm	x = 7.0 mm	x = 9.0 mm	x = 11.0 mm
y = 6.0 mm	y = 6.8 mm	y = 7.5 mm	y = 8.7 mm	y = 5.5 mm	y = 6.1 mm	y = 6.5 mm
gms = 150	gms = 180	gms = 180	gms = 200	gms = 150	gms = 180	gms = 180
13-144-530	13-145-600	13-146-650	13-147-750	13-148-480	13-149-500	13-150-580
13-144-530T	13-145-600T	13-146-650T	13-147-750T	13-148-480T	13-149-500T	13-150-580T



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
13-151-650	13-151-054	13-151-058	13-151-062	13-152-680	13-153-750
13-151-650T	13-151-054T	13-151-058T	13-151-062T	13-152-680T	13-153-750T

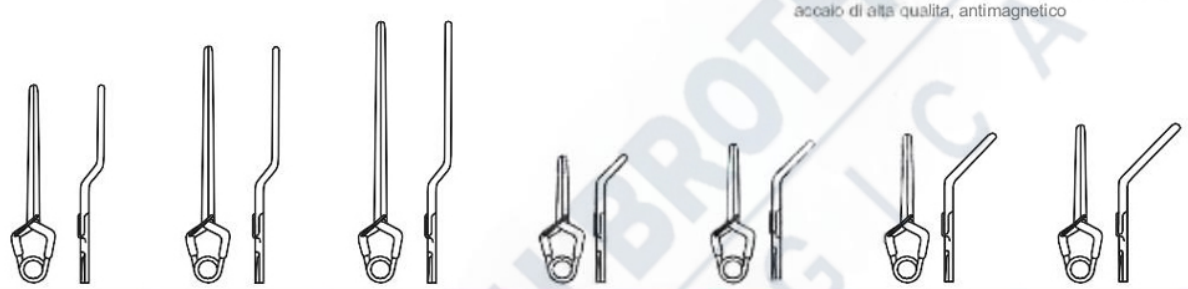
Aneurysmen Gefäßclips
Aneurysm vessel clips
Anévrisme clips
Aneurisma clips
Clips per aneurisma e vasi



x	y	gms
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

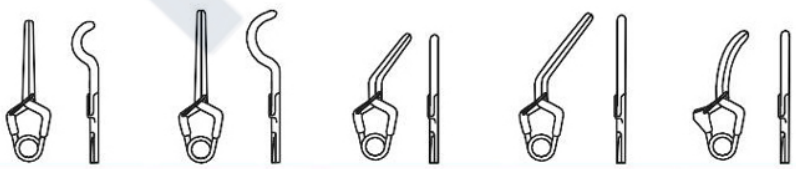
für permanenten Verschluss, mit Fenster 3.5 mm, aus hochwertigem Implantatstahl, antimagnetisch
for permanent closure, with window 3.5 mm, in high quality implant steel, antimagnetic
pour fermeture permanente, avec fenestra 3.5 mm, acier de haute qualité, anti-magnétique
para oclusión permanente, finestrado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



x = 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
13-153-102	13-153-119	13-153-130	13-154-062	13-154-065	13-154-078	13-154-084
13-153-102T	13-153-119T	13-153-130T	13-154-062T	13-154-065T	13-154-078T	13-154-084T

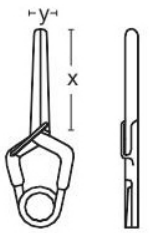


x = 5.0 mm	x = 7.0 mm	x = 10.0 mm	x = 8.0 mm	x = 10.0 mm	x = 5.0 mm
y = 5.6 mm	y = 5.6 mm	y = 5.6 mm	y = 5.4 mm	y = 5.6 mm	y = 7.2 mm
gms = 200	gms = 200	gms = 200	gms = 200	gms = 200	gms = 200
13-155-056	13-155-380	13-153-755	13-155-054	13-153-056	13-155-072
13-155-056T	13-155-380T	13-153-755T	13-155-054T	13-153-056T	13-155-072T



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
13-153-072	13-153-082	13-156-500	13-156-800	13-156-062
13-153-072T	13-153-082T	13-156-500T	13-156-800T	13-156-062T

aneurysmen gefäßclips
Aneurysm vessel clips
Anévrisme clips
Aneurisma clips
Clips per aneurisma e vasi



x	y	gms
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

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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

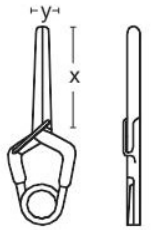


x = 7.0 mm	x = 9.0 mm	x = 12.0 mm	x = 5.0 mm	x = 7.0 mm	x = 11.0 mm
y = 7.4 mm	y = 8.4 mm	y = 9.6 mm	y = 5.8 mm	y = 6.5 mm	y = 7.2 mm
gms = 150	gms = 150	gms = 180	gms = 150	gms = 150	gms = 180
13-157-110	13-157-140	13-157-170	13-158-090	13-158-110	13-158-140
13-157-110T	13-157-140T	13-157-170T	13-158-090T	13-158-110T	13-158-140T



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
13-159-090	13-159-120	13-159-140
13-159-090T	13-159-120T	13-159-140T

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



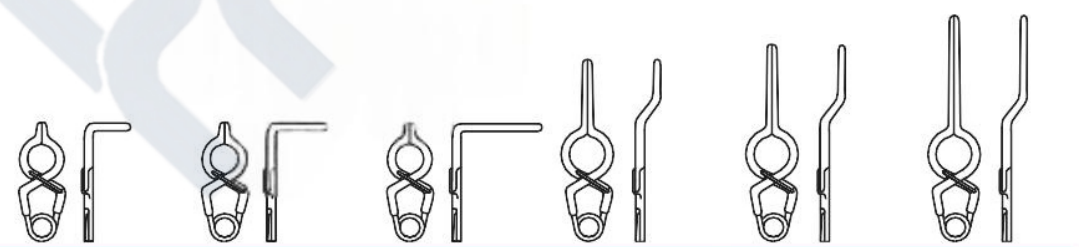
x	y	gms
Maullänge jaw length longueur du mors longitud de la boca lunghezza del morso	max. Maulöffnung max. jaw opening ouverture max. du mors apertura máx. de la boca apertura mass.	Schließkraft closing pressure force de fermeture fuerza de cierre pressione

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

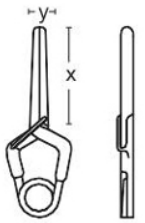


x = 7.0 mm	x = 9.0 mm	x = 12.0 mm	x = 5.0 mm	x = 7.0 mm	x = 11.0 mm
y = 7.9 mm	y = 9.1 mm	y = 10.3 mm	y = 6.5 mm	y = 7.2 mm	y = 7.8 mm
gms = 150	gms = 150	gms = 180	gms = 150	gms = 150	gms = 180
13-160-120	13-160-150	13-160-180	13-161-100	13-161-130	13-161-150
13-160-120T	13-160-150T	13-160-180T	13-161-100T	13-161-130T	13-161-150T



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
13-162-110	13-162-130	13-162-160	13-163-140	13-163-170	13-163-190
13-162-110T	13-162-130T	13-162-160T	13-163-140T	13-163-170T	13-163-190T

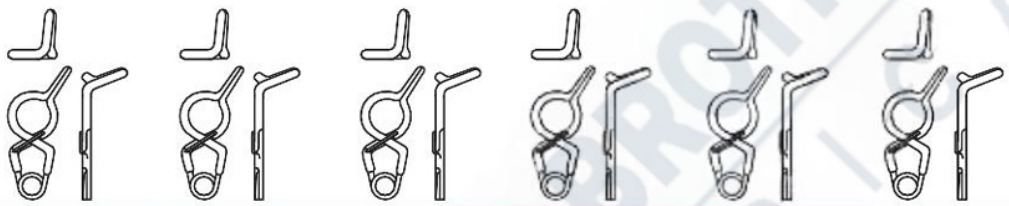
aneurysmen gefäßclips
Aneurysm vessel clips
Anévrisme clips
Aneurisma clips
Clips per aneurisma e vasi



x	y	gms
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

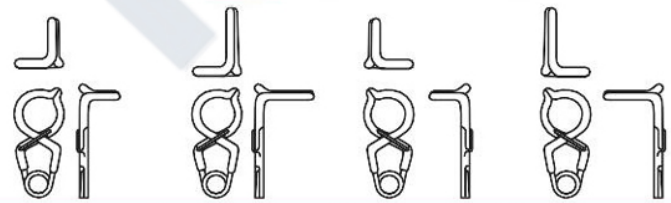
für permanenten Verschluss, mit Fenster 5.0 mm, aus hochwertigem Implantastahl, antimagnetisch
for permanent closure, with window 5.0 mm, in high quality implant steel, antigntic
pour fermeture permanente, avec fenestra 5.0 mm, acier de haute qualité, anti-magnétique
para oclusión permanente, ventana 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
13-164-058	13-165-058	13-166-058	13-167-058	13-168-058	13-169-058
13-164-058T	13-165-058T	13-166-058T	13-167-058T	13-168-058T	13-169-058T

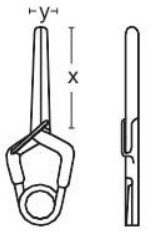


x = 5.0 mm	x = 7.0 mm	x = 10.0 mm	x = 5.0 mm	x = 7.0 mm	x = 5.0 mm	x = 7.0 mm
y = 7.0 mm	y = 7.8 mm	y = 8.8 mm	y = 5.8 mm	y = 6.2 mm	y = 5.8 mm	y = 6.2 mm
gms = 150	gms = 150	gms = 150	gms = 150	gms = 150	gms = 150	gms = 150
13-164-070	13-164-078	13-164-088	341-106-058	13-164-062	341-107-058	13-165-062
13-164-070T	13-164-078T	13-164-088T	341-106-058T	13-164-062T	341-107-058T	13-165-062T



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
13-164-056	13-165-056	13-166-056	13-167-056

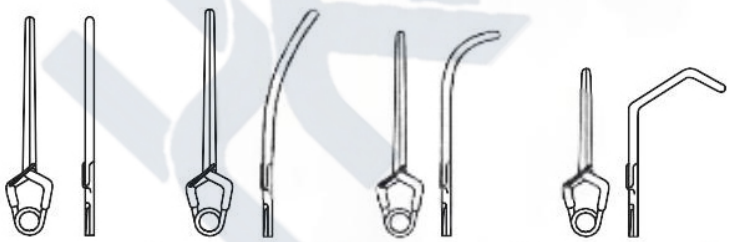
Aneurysmen Gefäßclips
Aneurysm vessel clips
Anévrisme clips
Aneurisma clips
Clips per aneurisma e vasi



x	y	gms
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

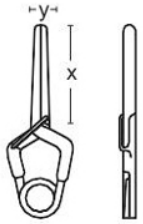


x = 9.0 mm	x = 9.0 mm	x = 9.0 mm	x = 15.0 mm	x = 15.0 mm	x = 15.0 mm	x = 9.0 mm
y = 7.0 mm	y = 6.8 mm	y = 6.1 mm	y = 9.2 mm	y = 8.7 mm	y = 7.4 mm	y = 6.2 mm
gms = 90	gms = 90	gms = 110	gms = 90	gms = 110	gms = 110	gms = 110
13-170-070	13-172-068	13-171-061	13-170-092	13-172-087	13-171-074	13-173-078
13-170-070T	13-172-068T	13-171-061T	13-170-092T	13-172-087T	13-171-074T	13-173-078T



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
13-170-114	13-172-110	13-171-099	13-173-075
13-170-114T	13-172-110T	13-171-099T	13-173-075T

aneurysmen gefäßclips
Aneurysm vessel clips
Anévrisme clips
Aneurisma clips
Clips per aneurisma e vasi



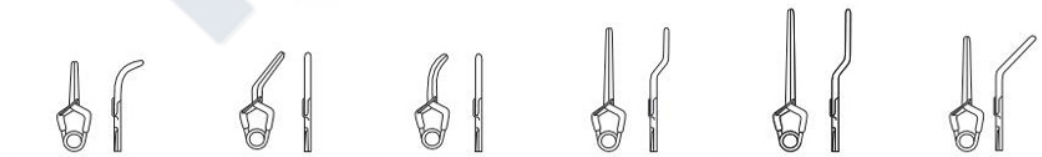
x	y	gms
Maullänge jaw length longueur du mors longitud de la boca lunghezza del morso	max. Maulöffnung max. jaw opening ouverture max. du mors apertura máx. de la boca apertura mass.	Schließkraft closing pressure force de fermeture fuerza de cierre pressione



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
13-174-300	13-175-350	13-176-033	13-176-350	13-177-400	13-178-300	13-179-350
13-174-300T	13-175-350T	13-176-033T	13-176-350T	13-177-400T	13-178-300T	13-179-350T

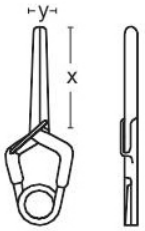


x = 4.0 mm	x = 5.0 mm	x = 4.0 mm	x = 5.0 mm	x = 7.0 mm	x = 4.0 mm	x = 4.0 mm
y = 3.6 mm	y = 3.8 mm	y = 3.6 mm	y = 4.0 mm	y = 4.4 mm	y = 3.6 mm	y = 3.5 mm
gms = 110	gms = 110	gms = 110	gms = 110	gms = 110	gms = 110	gms = 110
13-179-036	13-180-350	13-180-036	13-180-040	13-181-380	13-182-330	341-692-330
13-179-036T	13-180-350T	13-180-036T	13-180-040T	13-181-380T	13-182-330T	341-692-330T



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
13-183-350	13-184-300	13-184-060	13-185-070	13-185-500	13-186-400
13-183-350T	13-184-300T	13-184-060T	13-185-070T	13-185-500T	13-186-400T

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



x	y	gms
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 fermetur 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, accaio di alta qualita, amtimagnetico



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
13-187-033	13-187-040	13-187-038	13-187-046	13-187-044	13-188-040
13-187-033T	13-187-040T	13-187-038T	13-187-046T	13-187-044T	13-188-040T

Nervenhaken
Nerve hooks
Crochets à nerfs
Ganchos para nervios
Uncini per nervi



SCOVILLE 1:2

230 mm – 9 "
x = 8 mm
13-189-230



HOLSHER 1:2

240 mm – 9 ½ "
x = 7 mm
13-190-240



SCOVILLE 1:2

200 mm – 8 "
x = 7 mm
13-191-190



1:2

210 mm – 8 ¼ "
x = 7 mm
13-192-190

Duramesser
Dura knives
Bistouries pour duremère
Bisturís para duramadre
Bisturi per duramadre



TOENNIS

150 mm – 6 "	190 mm – 7 ½ "
13-193-130	13-193-190



HALLE

200 mm – 8 "	13-194-200

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

170 mm – 6 ¾ "	13-195-170
210 mm – 8 ¼ "	13-195-210



HOEN

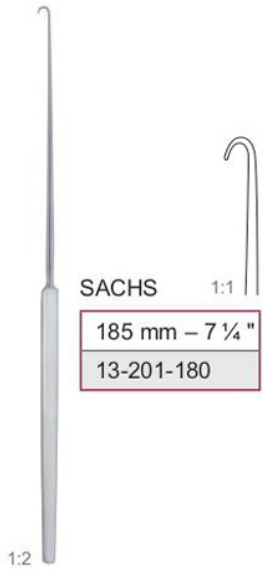
220 mm – 8 ¾ "	
13-196-220	



CUSHING

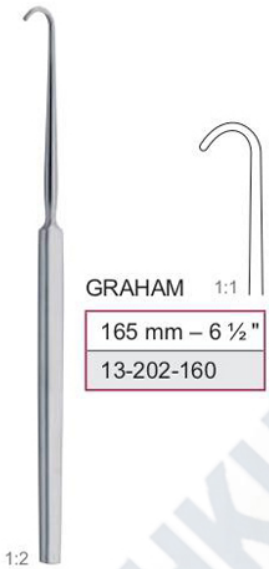
190 mm – 7 ½ "	13-197-190	13-198-190
280 mm – 11 "	13-199-280	13-200-280

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 "
13-201-180



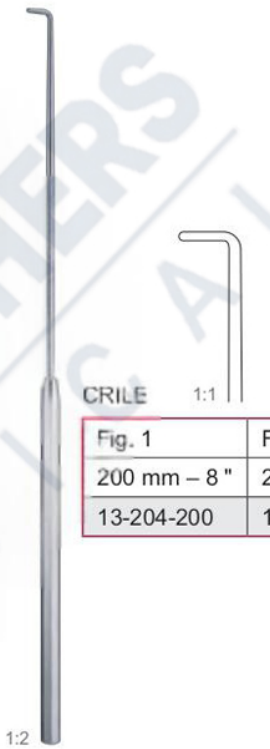
GRAHAM 1:1

165 mm – 6 ½ "
13-202-160



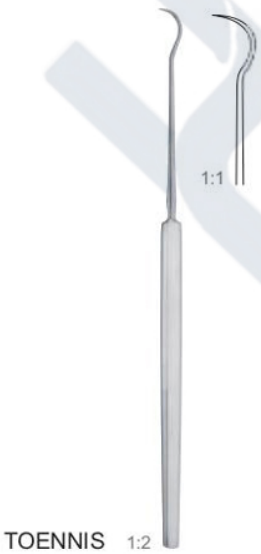
FRAZIER 1:1

180 mm – 7 "
13-203-180



CRILE 1:1 1:1

Fig. 1	Fig. 2
200 mm – 8 "	200 mm – 8 "
13-204-200	13-205-200



TOENNIS 1:2

150 mm – 6 "
13-206-150



DANDY

200 mm – 8 "	13-207-200	13-208-200	13-209-200



ADSON

200 mm – 8 "	13-210-200	13-211-200

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 ½ "	13-212-000	13-212-045	13-212-090



YASARGIL

310 mm – 12 ¼ "	13-213-010
410 mm – 16 ¼ "	13-213-020

Galeahaken
Galea retractor
Retracteur Galea
Retractor de Galea
Rettrotore di Galea





CUSHING 1:1



140 mm – 5 ½ "
13-214-140

FRAZIER 1:1 1:1




130 mm – 5 "	13-215-130	13-216-130
180 mm – 7 "	13-215-180	13-216-180
	spitz sharp pointu agudo acuto	stumpf blunt mousse romos smusso



LAHEY 1:1



130 mm – 5 "
13-217-130

Dura-Dissektoren
Dura dissectors
Décolleurs duremère
Disectores de duramadre
Dissetori per duramadre



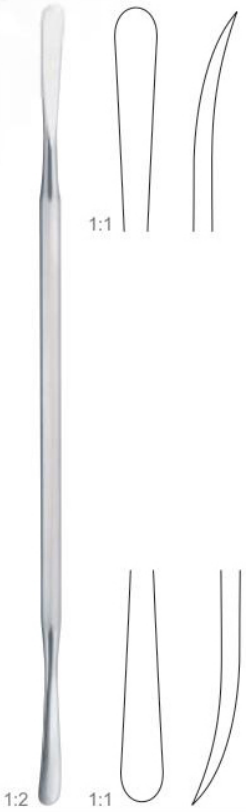
TOENNIS

250 mm – 9 ¾ "
13-218-250



DAVIS

245 mm – 9 ¾ "
13-219-245



220 mm – 8 ¾ "
13-220-220

dura-dissektoren
Dura dissectors
Décolleurs duremère
Disectores de duramadre
Dissetori per duramadre



HORSLEY

200 mm – 8 "
13-221-200



SMITHWICK

290 mm – 11 ½ "
13-222-290



SACHS

210 mm – 8 ¼ "	13-223-210	13-224-210	13-225-210

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 – 7 ¾ "	195 mm – 7 ¾ "	215 mm – 8 ½ "	185 mm – 7 ¼ "
13-226-010	13-226-020	13-226-030	13-226-040	13-226-050

Neuro-Mikro-dissektoren
Neuro-micro dissectors
Neuro-micro dissecteurs
Disectores para micro-neurocirugía
Strumento per micro-neuro chirurgia



YASARGIL



190 mm – 7 ½ "	13-227-070	13-227-080	13-227-090	13-227-100	13-227-050

gerade
straight
droit
recta
rette

190 mm – 7 ½ "	13-228-050	13-228-030	13-228-040	13-229-190	13-228-020

bajonett
bayonet
baionette
bayoneta
baionetta

YASARGIL



190 mm – 7 ½ "	13-227-060	13-227-040	13-227-030	13-227-010

gerade
straight
droit
recta
retta

190 mm – 7 ½ "	13-230-010	13-230-020	13-230-030	13-230-040

bajonett
bayonet
baionette
bayoneta
baionetta



190 mm – 7 ½ "	13-231-100	13-231-180

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





	KRAUS 1:1	YASARGIL 1:1	KOOS 1:1	KOOS 1:1	KOOS 1:1
190 mm – 7 ½ "	13-232-190	13-233-190	13-234-190	13-235-190	13-236-190

bajonett
bayonet
baionette
bayoneta
baionetta

Neuro-Mikro-dissektoren
Neuro-micro dissectors
Neuro-micro dissecteurs
Disectores para micro-neurocirugía
Strumento per micro-neuro chirurgia



JACOBSON

190 mm – 7 ½ "
13-237-190



KRAYEN
BÜHL

190 mm – 7 ½ "	13-238-185	13-239-185	13-241-185	13-242-185



ohne Knopf
without knob
sans boule
sin bola
senza bottone

mit Knopf
with knob
avec boule
con bola
con bottone





JACOBSON FISCH

190 mm – 7 ½ "	13-243-010	13-244-190	13-243-020

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



HARDY

250 mm – 9 ¾ "	13-245-020	13-246-020	13-246-030	13-245-010

bajonett, innen scharf
bayonet, sharp inner edge
baionette, tranchant à l'interne
bayoneta, cortante al interno
baionetta, acuto all'interno



HARDY

	4 mm Ø	6 mm Ø
270 mm – 10 ¾ "	13-247-040	13-247-060

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







VANNAS		
80 mm – 3 ¼ "	13-248-085	13-249-085

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 – 4¾"	13-250-120	13-251-110
Schneide 10 mm, spitz	gerade	gebogen
Blade 10 mm, sharp	straight	curved
Lame 10 mm, pointu	droit	courbe
Hoja 10 mm, agudas	recta	curva
Lama 10 mm, acuta	retta	curva







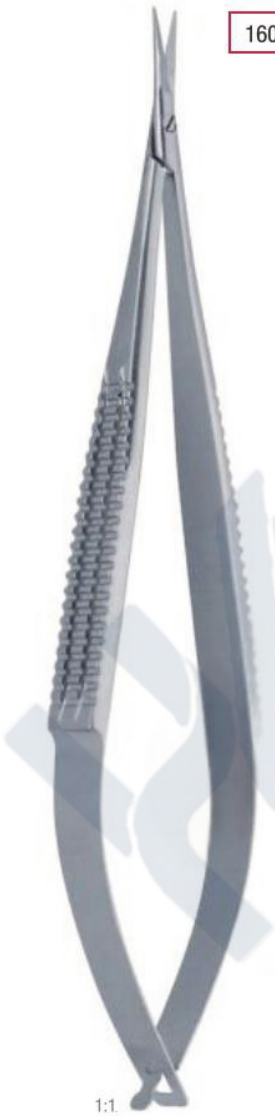
120 mm – 4¾"	13-252-120	13-253-120	05-229-120
Vannas-Schneide	gerade	gebogen	aufgewinkelt
Vannas blade	straight	curved	angled up
Lama de Vannas	droit	courbe	angulaire
Hoja de Vannas	recta	curva	acodada
Vannas-lama	retta	curva	angolata

BIEMER



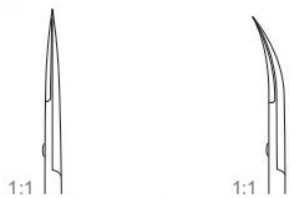
120 mm – 4¾"	309-256-120
Venen-Schneide	gerade
Vein blade	straight
Lame pour vènes	droit
Hoja para venas	recta
Lama per vene	retta

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





160 mm – 6 ⅜ "	05-640-160	05-641-160	05-644-160	05-645-160
	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 ⅜ "	05-642-160	05-643-160
	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 "	05-647-150
180 mm – 7 "	05-647-180

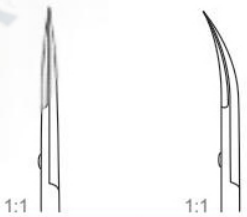
kniegebogen, 45°
angled on flat, 45°
angulaires, 45°
acodada, 45°
angolata, 45°

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

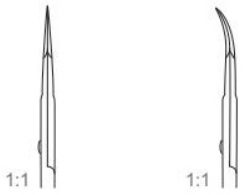




120 mm – 4 ¾"	13-254-120	13-255-120
Lange Schneide 14 mm, glatt, spitz Long blades 14 mm, smooth, sharp Lames longues 14 mm, lisses, pointues Hojas largas 14 mm, lisas, agudas Lama lunga 14 mm, liscia, acuta	gerade straight droites recta retta	gebogen curved courbes curva curva



120 mm – 4 ¾"	05-642-120	05-643-120
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 ¾"	13-252-145	13-253-145
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

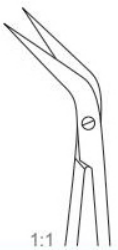
Mikro-federscheren
Micro scissors
Micro ciseaux à ressorts
Micro tijeras con resorte
Forbici per microchirurgia



YASARGIL







185 mm – 7¼"	13-254-185	13-255-185	13-256-190
	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



YASARGIL



	25°	45°	60°	90°	125°
170 mm – 6 ¾"	13-257-025	13-257-045	13-257-060	13-257-090	13-257-125

mit Knopf
with ball
avec bouton
con botón
con bottone

YASARGIL

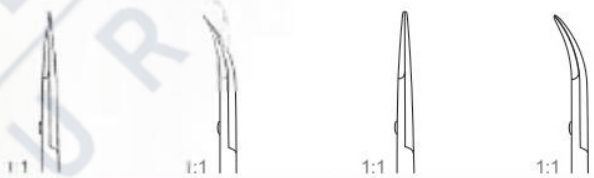


	25°	45°	60°	90°	125°
170 mm – 6 ¾"	411-773-025	411-773-045	13-257-060	13-257-090	13-257-125

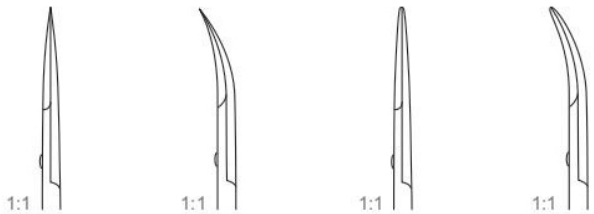
ohne Knopf
without ball
sans bouton
sin botón
senza bottone

Mikro-Präparierscheren
Micro dissecting scissors
Micro ciseaux à dissection
Micro tijeras de disección
Forbici per micro chirurgia con manico rotondo





145 mm – 5 ¾"	13-258-140	13-259-140	13-260-140	13-261-140
180 mm – 7"	13-258-180	13-259-180	13-260-180	13-261-180
kurze Schneide 8 mm, glatt	gerade, spitz	gebogen, spitz	gerade, stumpf	gebogen, stumpf
short blades 8 mm, smooth	straight, sharp	curved, sharp	straight, blunt	curved, blunt
lames courtes 8 mm, lisses	droites, pointues	courbes, pointues	droites, mousses	courbes, mousses
hojas cortas 8 mm, lisos	rectas, agudas	curvas, agudas	rectas, romas	curvas, romas
lama corta 8 mm, liscia	retta, acuta	curva, acuta	retta, smussa	curva, smussa



145 mm – 5 ¾"	13-258-140L	13-259-140L	13-260-140L	13-261-140L
180 mm – 7"	13-258-180L	13-259-180L	13-260-180L	13-261-180L
lange Schneide 14 mm, glatt	gerade, spitz	gebogen, spitz	gerade, stumpf	gebogen, stumpf
long blades 14 mm, smooth	straight, sharp	curved, sharp	straight, blunt	curved, blunt
lames longues 14 mm, lisses	droites, pointues	courbes, pointues	droites, mousses	courbes, mousses
hojas largas 14 mm, lisos	rectas, agudas	curvas, agudas	rectas, romas	curvas, romas
lama lunga 14 mm, liscia	retta, acuta	curva, acuta	retta, smussa	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

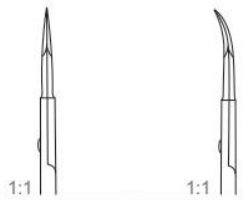


VANNAS



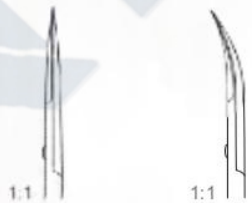
	7 mm Ø	7 mm Ø
120 mm – 5"	13-262-120	13-263-120

VANNAS



	8 mm Ø	8 mm Ø
150 mm – 6"	13-262-150	13-263-150

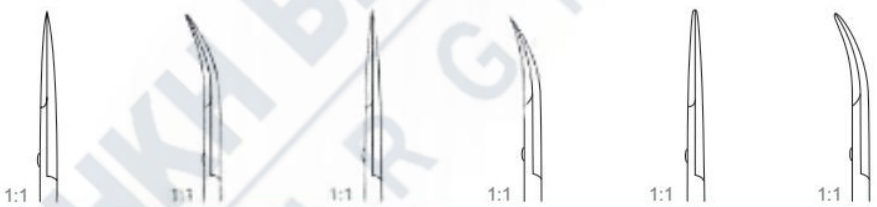
CASTROVIEJO



	8 mm Ø	8 mm Ø
150 mm 6"	13-264-150	13-265-150

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





	180 mm – 7"	180 mm – 7"	180 mm – 7"	180 mm – 7"	180 mm – 7"	180 mm – 7"
10 mm Ø	13-266-180	13-267-180	13-268-180	13-269-180	13-270-180	13-271-180
	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





8 mm Ø	25°	45°	60°	90°	125°
180 mm – 7"	13-272-025	13-272-045	13-272-060	13-272-090	13-272-125

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"	13-273-025	13-273-045	13-273-060	13-273-090	13-273-125

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"	13-274-025	13-274-045	13-274-060	13-274-090	13-274-125

mit Knopf
with ball
avec bouton
con botón
con bottone

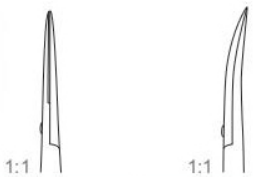


8 mm Ø	25°	45°	60°	90°	125°
180 mm – 7"	13-275-025	13-275-045	13-275-060	13-275-090	13-275-125

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


1:1


1:1 1:1

	9 mm Ø	9 mm Ø
150 mm – 6"	13-276-150	13-277-150

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

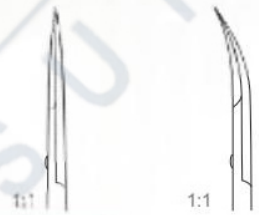

1:1


1:1

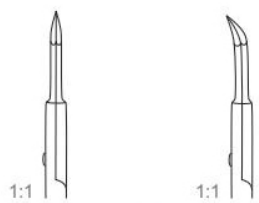
	9 mm Ø	9 mm Ø
150 mm – 6"	13-276-150	13-277-150

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





YASARGIL-MOD.		
180 mm – 7"	13-283-190	13-284-190
225 mm – 8¾"	13-278-225	13-279-225



220 mm – 8¾"	13-281-225	13-282-225

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



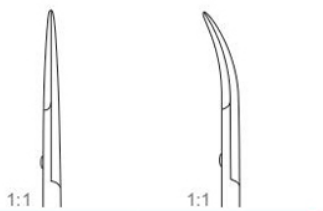


200 mm – 8 "	13-285-001	13-285-002	13-285-003	13-285-004
225 mm – 8 ¾"	13-286-001	13-286-002	13-286-003	13-286-004
Schneide glatt, spitz Blade smooth, sharp Lames lisses, pointues Hojas lisas, agudas Lama liscia, acuta	gerade straight droites recta retta	gebogen curved courbes curva curva	gerade, gezahnt straight, saw edge droites, dentelés recta, dentadas retta, dentata	gebogen, gezahnt curved, saw edge courbes, dentelés curva, dentadas curva, dentata



200 mm – 8 "	13-285-005	13-285-006
225 mm – 8 ¾"	13-286-005	13-286-006

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



200 mm – 8 "	13-285-007	13-285-008
225 mm – 8 ¾"	13-286-007	13-286-008

Präparier-Schneide, stumpf
Dissector blade, blunt
Lames de disscton, moussé
Hojas de disección, roma
Lama da dissezione, smussa

Mikro-federscheren
Micro scissors

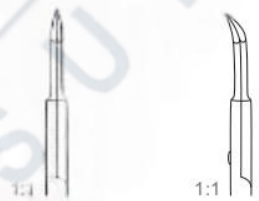
Micro ciseaux à ressorts
Micro tijeras con resorte
Forbici per microchirurgia





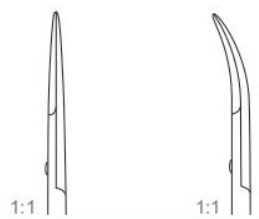
200 mm – 8"	13-285-001	13-285-002	13-285-003	13-285-004
225 mm – 8¾"	13-286-001	13-286-002	13-286-003	13-286-004

Schneide glatt, spitz	gerade	gebogen	gerade, gezahnt	gebogen, gezahnt
Blade smooth, sharp	straight	curved	straight, saw edge	curved, saw edge
Lames lisses, pointues	droites	courbes	droites, dentelés	courbes, dentelés
Hojas lisas, agudas	recta	curva	recta, dentadas	curva, dentadas
Lama liscia, acuta	retta	curva	retta, dentata	curva, dentata



200 mm – 8"	13-285-005	13-285-006
225 mm – 8¾"	13-286-005	13-286-006

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



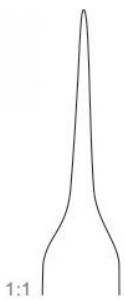
200 mm – 8"	13-285-007	13-285-008
225 mm – 8¾"	13-286-007	13-286-008

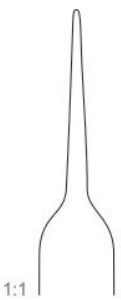
Präparier-Schneide, stumpf
Dissector blade, blunt
Lames de dissction, moussé
Hojas de disección, roma
Lama da dissezione, smussa

Mikro-Knüpfpinzetten
Micro suture tying forceps
Pinces à fixation – Dilatateures vasculaires
Pinzas de fixaciòn – Dilatadores vasculares
Pinze di fissaggio – Pinze per allargare i vasi



LAZAR





	0.5 mm	0.8 mm
155 mm – 6"	13-291-155	13-292-155

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 – 4¾"	13-293-120	13-294-120		
150 mm – 6"	13-296-150	13-295-150	13-296-150Z	13-295-150Z
180 mm – 7"	13-293-180	13-294-180	13-293-180Z	13-294-180Z
210 mm – 8¼"	13-296-210	13-295-210	13-296-210Z	13-295-210Z
230 mm – 9"	13-296-230	13-295-230	13-296-230Z	13-295-230Z
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"	13-296-150T	13-295-150T	13-296-150ZT	13-295-150ZT
180 mm – 7"	13-296-180T	13-295-180T	13-296-180ZT	13-295-180ZT
210 mm – 8¼"	13-296-210T	13-295-210T	13-296-210ZT	13-295-210ZT
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"	13-297-150	13-298-150	13-299-150Z	13-300-150Z
180 mm – 7"	13-297-180	13-298-180	13-299-180Z	13-300-180Z
210 mm – 8¼"	13-297-210	13-298-210	13-299-210Z	13-300-210Z
230 mm – 9"	13-297-230	13-298-230	13-299-230Z	13-300-230Z
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"	13-297-150T	13-298-150T	13-299-150ZT	13-300-150ZT
180 mm – 7"	13-297-180T	13-298-180T	13-299-180ZT	13-300-180ZT
210 mm – 8¼"	13-297-210T	13-298-210T	13-299-210ZT	13-300-210ZT
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 pinces
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"	13-296-150D	13-295-150D	13-296-150ZD	13-295-150ZD
180 mm – 7"	13-293-180D	13-294-180D	13-293-180ZD	13-294-180ZD
210 mm – 8 ¼"	13-296-210D	13-295-210D	13-296-210ZD	13-295-210ZD
230 mm – 9"	13-296-230D	13-295-230D	13-296-230ZD	13-295-230ZD
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"	13-297-150D	13-298-150D	13-299-150ZD	13-300-150ZD
180 mm – 7"	13-297-180D	13-298-180D	13-299-180ZD	13-300-180ZD
210 mm – 8 ¼"	13-297-210D	13-298-210D	13-299-210ZD	13-300-210ZD
230 mm – 9"	13-297-230D	13-298-230D	13-299-230ZD	13-300-230ZD
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 pinces
Micro pinzas
Pinze per microchirurgia





JACOBSON

160 mm – 6 ¼"	13-301-160	13-302-160	13-303-160	13-304-160
185 mm – 7 ¼"	13-301-185	13-302-185	13-303-185	13-304-185
	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"	13-301-160D	13-302-160D	13-303-160D	13-304-160D
185 mm – 7 ¼"	13-301-185D	13-302-185D	13-303-185D	13-304-185D
	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 pinces
Micro pinzas
Pinze per microchirurgia



YASARGIL







	225 mm – 8 ¾ "	225 mm – 8 ¾ "	225 mm – 8 ¾ "
3.0 mm	13-305-220	13-306-220	13-307-220
5.0 mm	13-308-220	13-309-220	13-310-220
	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 pinces
Micro pinzas
Pinze per microchirurgia





YASARGIL

160 mm – 6⅓"	13-311-160	13-312-160
180 mm – 1 ½"	13-311-180	13-312-180
200 mm – 8"	13-311-200	13-312-200
225 mm – 8 ¾"	13-311-220	13-312-220
240 mm – 9 ½"	13-311-240	13-312-240
	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

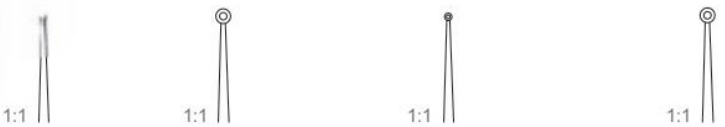




			Diamond coated	Diamond coated
9 mm Ø	1.0 x 0.5 mm	2.0 x 1.0 mm	1.0 x 0.5 mm	2.0 x 1.0 mm
150 mm – 6 "	13-313-150	13-313-151	13-313-150D	13-313-151D
180 mm – 7 "	13-313-180	13-313-181	13-313-180D	13-313-181D
210 mm – 8 ¼ "	13-313-210	13-313-211	13-313-210D	13-313-211D
230 mm – 9 "	13-313-230	13-313-231	13-313-230D	13-313-231D

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 "	13-313-150T	13-313-151T	13-313-150DT	13-313-151DT
180 mm – 7 "	13-313-180T	13-313-181T	13-313-180DT	13-313-181DT
210 mm – 8 ¼ "	13-313-210T	13-313-211T	13-313-210DT	13-313-211DT
230 mm – 9 "	13-313-230T	13-313-231T	13-313-230DT	13-313-231DT

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"	13-314-150	13-315-150	13-316-150	13-317-150
180 mm – 7"	13-314-180	13-315-180	13-316-180	13-317-180
210 mm – 8¼"	13-314-210	13-315-210	13-316-210	13-317-210
230 mm – 9"	13-314-230	13-315-230	13-316-230	13-317-230
	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"	13-314-150T	13-315-150T	13-316-150T	13-317-150T
180 mm – 7"	13-314-180T	13-315-180T	13-316-180T	13-317-180T
210 mm – 8¼"	13-314-210T	13-315-210T	13-316-210T	13-317-210T
230 mm – 9"	13-314-230T	13-315-230T	13-316-230T	13-317-230T
	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





CASTROVIEJO

			Diamond Coated	Diamond Coated
x = 11.0 mm x 0.75 mm				
140 mm – 5½"	13-318-140	13-319-140	13-318-140D	13-319-140D
ohne Sperre, feines Maul	gerade	gebogen	gerade	gebogen
without ratchet, fine jaws	straight	curved	straight	curved
sans crémaillère, mors fins	droites	courbes	droites	courbes
sin cremallera, boca fina	recta	curva	recta	curva
senza cremagliera, morso fine	retto	curva	retto	curva

			Diamond Coated	Diamond Coated
x = 11.0 mm x 0.75 mm				
140 mm – 5½"	13-320-140	13-321-140	13-320-140D	13-321-140D
mit Sperre, feines Maul	gerade	gebogen	gerade	gebogen
with ratchet, fine jaws	straight	curved	straight	curved
avec crémaillère, mors fins	droites	courbes	droites	courbes
con cremallera, boca fina	recta	curva	recta	curva
con cremagliera, morso fino	retto	curva	retto	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 – 7⅓"	13-322-185	13-323-185	13-322-185D	13-323-185D
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 – 7⅓"	13-324-185	13-325-185	13-324-185D	13-325-185D
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









	TC	TC	TC	TC
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
180 mm – 7"	13-326-180	13-327-180	13-328-180	13-329-180
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

	TC	TC	TC	TC
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
180 mm – 7"	13-330-180	13-331-180	13-332-180	13-333-180
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"	13-334-180	13-335-180	13-334-180D	13-335-180D
200 mm – 8"	13-334-200	13-335-200	13-334-200D	13-335-200D
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"	13-336-180	13-337-180	13-336-180D	13-337-180D
200 mm – 8"	13-336-200	13-337-200	13-336-200D	13-337-200D
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



YASARGIL









			Diamond Coated	Diamond Coated
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
210 mm – 8 ¼"	13-338-210	13-339-210	13-338-210D	13-339-210D
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"	13-340-210	13-341-210	13-340-210D	13-341-210D
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









	TC	TC	TC	TC
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
210 mm – 8 ¼"	13-338-210TCG	13-339-210TCG	13-338-210TCS	13-339-210TCS
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

	TC	TC	TC	TC
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
210 mm – 8 ¼"	13-340-210TCG	13-341-210TCG	13-340-210TCS	13-341-210TCS
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 – 4¼"	13-342-110	13-343-110
125 mm – 5"	13-342-125	13-343-125
130 mm – 5"	13-342-130	13-343-130
150 mm – 6"	13-342-150	13-343-150
180 mm – 7"	13-342-180	13-343-180

ohne Sperre	gerade	gebogen
without ratchet	straight	curved
sans crémaillère	droites	courbes
sin cremallera	recta	curva
senza cremagliera	retto	curva

110 mm – 4¼"	13-344-110	13-345-110
125 mm – 5"	13-344-125	13-345-125
130 mm – 5"	13-344-130	13-345-130
150 mm – 6"	13-344-150	13-345-150
180 mm – 7"	13-344-180	13-345-180

mit Sperre	gerade	gebogen
with ratchet	straight	curved
avec crémaillère	droites	courbes
con cremallera	recta	curva
con cremagliera	retto	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



BARRAQUER









				Diamond Coated	Diamond Coated
140 mm – 5½"	8 mm Ø	13-346-140	13-347-140	13-346-140D	13-347-140D
ohne Sperre, sehr feines Maul		gerade	gebogen	gerade	gebogen
without ratchet, extra delicate jaws		straight	curved	straight	curved
sans crémaillère, mors très fine		droites	courbes	droites	courbe
sin cremallera, boca muy fina		recta	curva	recta	curva
senza cremagliera, morso molto fino		retto	curva	retto	curvo

				Diamond Coated	Diamond Coated
140 mm – 5½"	8 mm Ø	13-348-140	13-349-140	13-348-140D	13-349-140D
mit Sperre, sehr feines Maul		gerade	gebogen	gerade	gebogen
with ratchet, extra delicate jaws		straight	curved	straight	curved
avec crémaillère, mors très fine		droites	courbes	droites	courbes
con cremallera, boca muy fina		recta	curva	recta	curva
con cremagliera, morso molto fino		retto	curva	retto	curva

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



1:1



1:1

150 mm – 6"	9 mm Ø	13-350-150

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"	13-351-200	13-352-200	13-353-200	13-354-200
225 mm – 8¾"	13-351-220	13-352-220	13-353-220	13-354-220
240 mm – 9½"	13-351-240	13-352-240	13-353-240	13-354-240

ohne Sperre	gerade	gebogen	gerade	gebogen
without ratchet	straight	curved	straight	curved
sans crémaillère	droites	courbes	droites	courbes
sin cremallera	recta	curva	recta	curva
senza cremagliera	retto	curva	retto	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"	13-351-200D	13-352-200D	13-353-200D	13-354-200D
225 mm – 8¾"	13-351-220D	13-352-220D	13-353-220D	13-354-220D
240 mm – 9½"	13-351-240D	13-352-240D	13-353-240D	13-354-240D

ohne Sperre, diamantiert	gerade	gebogen	gerade	gebogen
without ratchet, diamond coated	straight	curved	straight	curved
sans crémaillère, diamanté	droites	courbes	droites	courbes
sin cremallera, diamantada	recta	curva	recta	curva
senza cremagliera, diamantato	retto	curva	retto	curva

Diese Nadelhalter sind auch mit Sperre erhältlich.
These needle holders are also available with ratchet.
Ces porte aiguilles sort 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



JACOBSON



			Diamond Coated	Diamond Coated
180 mm – 7"	13-355-185	13-356-185	13-355-185D	13-356-185D
ohne Sperre	gerade	gebogen	gerade	gebogen
without ratchet	straight	curved	straight	curved
sans crémaillère	droites	courbes	droites	courbes
sin cremallera	recta	curva	recta	curva
senza cremagliera	retto	curva	retto	curva

			Diamond Coated	Diamond Coated
180 mm – 7"	13-357-185	13-358-185	13-357-185D	13-358-185D
mit Sperre	gerade	gebogen	gerade	gebogen
with ratchet	straight	curved	straight	curved
avec crémaillère	droites	courbes	droites	courbes
con cremallera	recta	curva	recta	curva
con cremagliera	retto	curva	retto	curva

Diese Nadelhalter sind auch mit Sperre erhältlich.
These needle holders are also available with ratchet.
Ces porte aiguilles sort 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





			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"	13-359-001	13-359-002	13-359-003D	13-359-004D
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"	13-360-001	13-360-002	13-360-003D	13-360-004D
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



	TC	TC	TC	TC
9 mm Ø				
230 mm – 9"	13-361-001	13-361-002	13-361-003	13-361-004
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

	TC	TC	TC	TC
9 mm Ø				
230 mm – 9"	13-362-001	13-362-002	13-362-003	13-362-004
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

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"	13-363-180	13-364-180

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"	13-365-185	13-366-185

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"	13-367-200	13-368-200

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"	13-369-200	13-370-200	13-371-200	13-372-200

mit Sperre
with ratchet
avec crémaillère
con cremallera
con cremagliera

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







225 mm – 8 ¾"	13-373-225	13-374-225

	TC	TC
225 mm – 8 ¾"	13-375-225	13-361-225

	Titan	Titan
225 mm – 8 ¾"	13-376-225	13-377-225

ohne Sperre
without ratchet
sans crémaillère
sin cremallera
senza cremagliera

	Titan	Titan
225 mm – 8 ¾"	13-378-225	13-379-225
225 mm – 8 ¾"	13-380-225	13-381-225

mit Sperre
with ratchet
avec crémaillère
con cremallera
con cremagliera

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

FERRIS-SMITH-KERRISON



	x = 150mm – 6"	x = 180 mm – 7"	x = 200 mm – 8"	x = 230 mm – 9"
1 mm	13-382-001	13-383-010	13-385-010	13-386-001
2 mm	13-382-002	13-384-002	13-385-020	13-386-002
3 mm	13-382-003	13-384-003	13-385-030	13-386-003
4 mm	13-382-004	13-383-040	13-385-040	13-386-004
5 mm	13-382-005	13-384-005	13-385-050	13-386-005
6 mm	13-382-006	13-383-060	13-385-060	13-386-006



1 mm	13-387-001	13-388-010	13-390-010	13-391-001
2 mm	13-387-002	13-389-002	13-390-020	13-391-002
3 mm	13-387-003	13-389-003	13-390-030	13-391-003
4 mm	13-387-004	13-388-040	13-390-040	13-391-004
5 mm	13-387-005	13-389-005	13-390-050	13-391-005
6 mm	13-387-006	13-388-060	13-390-060	13-391-006

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

FERRIS-SMITH-KERRISON



	x = 150mm – 6"	x = 180 mm – 7"	x = 200 mm – 8"	x = 230 mm – 9"
1 mm	13-392-001	13-393-010	13-395-010	13-396-001
2 mm	13-392-002	13-394-002	13-395-020	13-396-002
3 mm	13-392-003	13-394-003	13-395-030	13-396-003
4 mm	13-392-004	13-393-040	13-395-040	13-396-004
5 mm	13-392-005	13-394-005	13-395-050	13-396-005
6 mm	13-392-006	13-393-060	13-395-060	13-396-006

1 mm		13-397-010	13-398-010	
2 mm		13-397-020	13-398-020	13-399-002
3 mm		13-397-030	13-398-030	13-399-003
4 mm		13-397-040	13-398-040	13-399-004
5 mm		13-397-050	13-398-050	13-399-005
6 mm		13-397-060	13-398-060	13-399-006



1 mm		13-400-010		
2 mm		13-400-020		
3 mm		13-400-030		



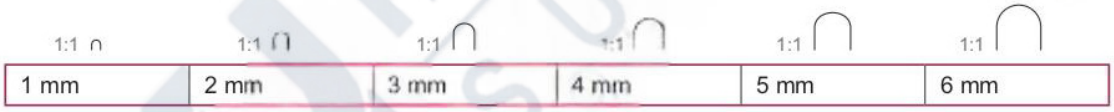
1 mm		13-401-010		
2 mm		13-401-020		
3 mm		13-401-030		

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





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

FERRIS-SMITH-KERRISON

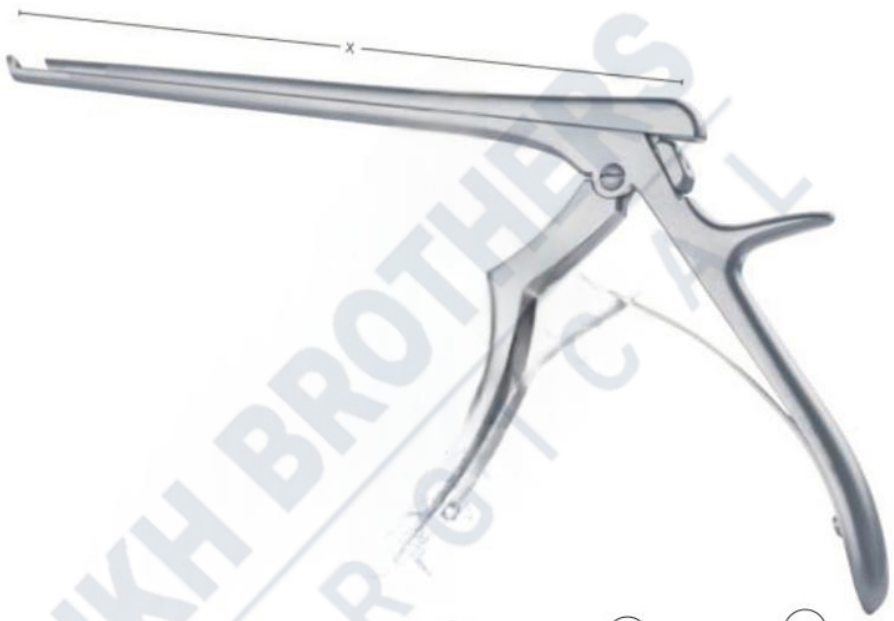


	x = 180 mm – 7"	x = 200 mm – 8"	x = 230 mm – 9"
1 mm	13-383-010Z	13-385-010Z	13-386-001Z
2 mm	13-384-002Z	13-385-020Z	13-386-002Z
3 mm	13-384-003Z	13-385-030Z	13-386-003Z
4 mm	13-383-040Z	13-385-040Z	13-386-004Z
5 mm	13-384-005Z	13-385-050Z	13-386-005Z
6 mm	13-383-060Z	13-385-060Z	13-386-00Z6



1 mm	13-388-010Z	13-390-010Z	13-391-001Z
2 mm	13-389-002Z	13-390-020Z	13-391-002Z
3 mm	13-389-003Z	13-390-030Z	13-391-003Z
4 mm	13-388-040Z	13-390-040Z	13-391-004Z
5 mm	13-389-005Z	13-390-050Z	13-391-005Z
6 mm	13-388-060Z	13-390-060Z	13-391-006Z

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



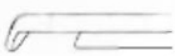


1 mm	2 mm	3 mm	4 mm	5 mm	6 mm

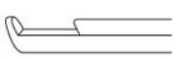
FERRIS-SMITH-KERRISON



	x = 180 mm – 7"	x = 200 mm – 8"	x = 230 mm – 9"
1 mm	13-393-010Z	13-395-010Z	13-396-001Z
2 mm	13-394-002Z	13-395-020Z	13-396-002Z
3 mm	13-394-003Z	13-395-030Z	13-396-003Z
4 mm	13-393-040Z	13-395-040Z	13-396-004Z
5 mm	13-394-005Z	13-395-050Z	13-396-005Z
6 mm	13-393-060Z	13-395-060Z	13-396-006Z



1 mm	13-397-010Z	13-398-010Z	
2 mm	13-397-020Z	13-398-020Z	13-399-002Z
3 mm	13-397-030Z	13-398-030Z	13-399-003Z
4 mm	13-397-040Z	13-398-040Z	13-399-004Z
5 mm	13-397-050Z	13-398-050Z	13-399-005Z
6 mm	13-397-060Z	13-398-060Z	13-399-006Z



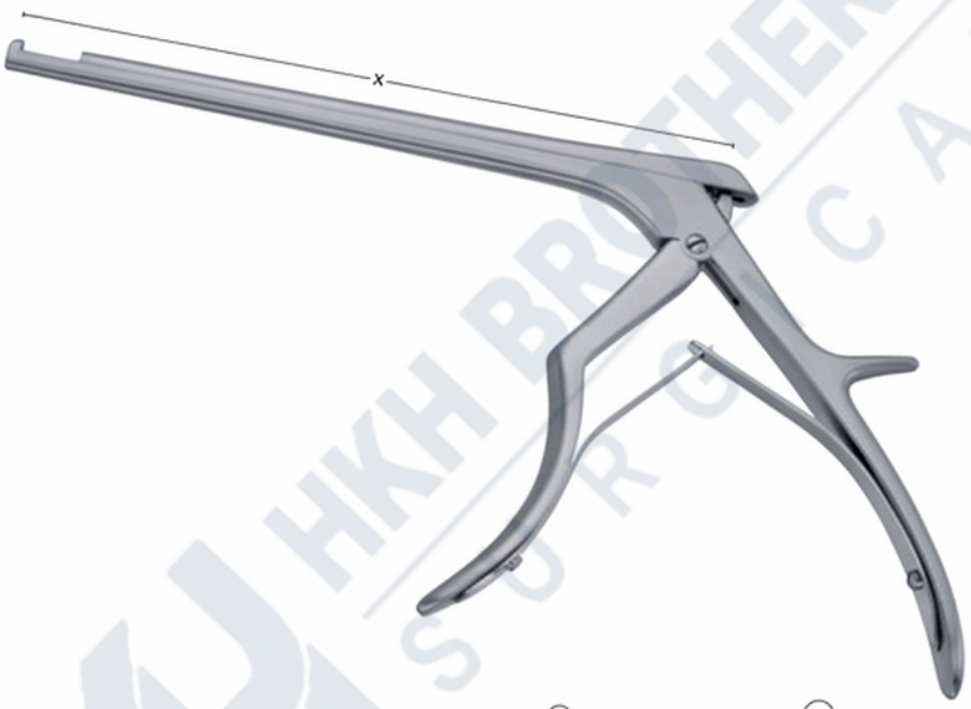
1 mm	13-400-010Z		
2 mm	13-400-020Z		
3 mm	13-400-030Z		

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



1 mm	13-401-010Z		
2 mm	13-401-020Z		
3 mm	13-401-030Z		

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





3 mm	5 mm

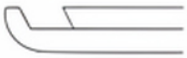
COLCLOUGH



	x = 150 mm – 6"	x = 200 mm – 8"
3 mm	13-402-150	13-402-200
5 mm	13-403-150	13-403-200



3 mm	13-404-150	13-404-200
5 mm	13-405-150	13-405-200



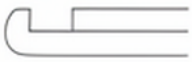
3 mm	13-406-150	13-406-200
5 mm	13-407-150	13-407-200

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

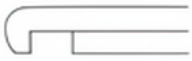


3 mm	5 mm

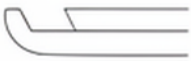
COLCLOUGH



	x = 150 mm – 6"	x = 200 mm – 8"
3 mm	13-402-150	13-402-200
5 mm	13-403-150	13-403-200



3 mm	13-404-150	13-404-200
5 mm	13-405-150	13-405-200



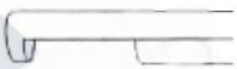
3 mm	13-406-150	13-406-200
5 mm	13-407-150	13-407-200

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



5 mm

FERRIS-SMITH-KERRISON



	x = 180 mm – 7*
5 mm	13-408-050



5 mm	13-409-050

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



CUSHING

1:1

	2 mm x 10 mm	2 mm x 10 mm	2 mm x 10 mm
x = 130 mm – 5"	13-410-130	13-411-130	13-412-130
x = 180 mm – 7"	13-410-180	13-411-180	13-412-180
x = 220 mm – 8¾"	13-410-220	13-411-220	13-412-220

LOVE-GRUENWALD

1:1

	3 mm x 10 mm	3 mm x 10 mm	3 mm x 10 mm
x = 130 mm – 5"	13-413-130	13-414-130	13-415-130
x = 150 mm – 6"	13-413-150	13-414-150	13-415-150
x = 180 mm – 7"	13-413-180	13-414-180	13-415-180

SPURLING

1:1

	4 mm x 10 mm	4 mm x 10 mm	4 mm x 10 mm
x = 150 mm – 6"	13-416-150	13-417-150	13-418-150
x = 180 mm – 7"	13-416-180	13-417-180	13-418-180
x = 230 mm – 9"	13-416-230	13-417-230	13-418-230

CLOWARD

1:1 

	6 mm x 10 mm
x = 180 mm – 7"	13-419-180

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





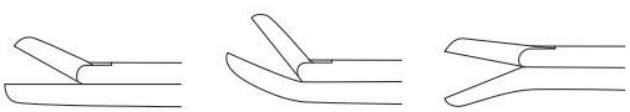
FERRIS-SMITH

		x = 180 mm – 7"	x = 180 mm – 7"	x = 180 mm – 7"
1:1	2 mm x 10 mm	13-420-002	13-421-020	13-422-020
1:1	3 mm x 10 mm	13-420-003	13-421-030	13-422-030
1:1	4 mm x 10 mm	13-420-004	13-421-040	13-422-040
1:1	5 mm x 10 mm	13-420-005	13-421-050	13-422-050
1:1	6 mm x 10 mm	13-420-006	13-421-060	13-422-060

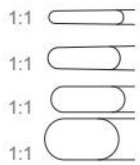
Andere Längen und Ausführungen sind auf Anfrage lieferbar.
Other lengths and executions are available upon request.
Autres longueurs et éxecutions sont disponibles sur demande.
Otras longitudes y dimensiones son disponibles según demanda.
Altre lunghezze e modelli fornibili a richiesta.

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





CASPAR



	x = 155 mm – 6"	x = 155 mm – 6"	x = 155 mm – 6"
2 mm	13-423-020	13-424-020	13-425-020
3 mm	13-423-030	13-424-030	13-425-030
4 mm	13-423-040	13-424-040	13-425-040
5 mm	13-423-050		

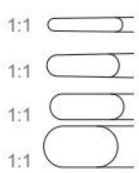
Laminektomiestanzen
Laminectomy punches
Pinces emporte-pièces à laminectomie
Pinzas cortantes para laminectomía
Pinze taglienti per laminectomia





CASPAR

	x = 155 mm – 6"	x = 155 mm – 6"	x = 155 mm – 6"
2 mm	13-423-020	13-424-020	13-425-020
3 mm	13-423-030	13-424-030	13-425-030
4 mm	13-423-040	13-424-040	13-425-040
5 mm	13-423-050		



Laminektomiestanzen
Laminectomy punches

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



CASPAR

	x = 140 mm – 5 ½ "	x = 160 mm – 6 ¼ "	x = 185 mm – 7 ¼ "
2 mm x 12 mm	13-428-200	13-429-200	13-430-200
3 mm x 12 mm	13-428-300	13-429-300	13-430-300
4 mm x 14 mm	13-428-400	13-429-400	13-430-400
5 mm x 14 mm	13-428-500	13-429-500	13-430-500
6 mm x 16 mm	13-428-600	13-429-600	13-430-600



	x = 140 mm – 5 ½ "	x = 160 mm – 6 ¼ "	x = 185 mm – 7 ¼ "
2 mm x 12 mm	13-431-200	13-432-200	
2.5 mm x 12 mm	13-431-250	13-432-250	13-433-300
4 mm x 14 mm	13-431-400	13-432-400	13-433-400
5 mm x 14 mm	13-431-500	13-432-500	13-433-500



	x = 140 mm – 5 ½ "	x = 160 mm – 6 ¼ "	x = 185 mm – 7 ¼ "
2 mm x 12 mm	13-434-200	13-435-200	
3 mm x 12 mm	13-434-250	13-435-250	13-436-300
4 mm x 14 mm	13-434-400	13-435-400	13-436-400

laminektomiestanzen
Laminectomy punches
Pinces emporte-pièces à laminectomie
Pinzas cortantes para laminectomía
Pinze taglienti 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
 0°					
x = 120 mm – 4 ¾ "	13-437-001	13-437-002	13-437-003	13-437-004	13-437-005
 45°					
x = 120 mm – 4 ¾ "	13-438-001	13-438-002	13-438-003	13-438-004	
 90°					
x = 120 mm – 4 ¾ "	13-439-001	13-439-002	13-439-003		

	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
 45°					
x = 180 mm – 7 "	13-440-010	13-440-020	13-440-030	13-440-040	13-440-050
 90°					
x = 180 mm – 7 "	13-441-010	13-441-020	13-441-030	13-441-040	