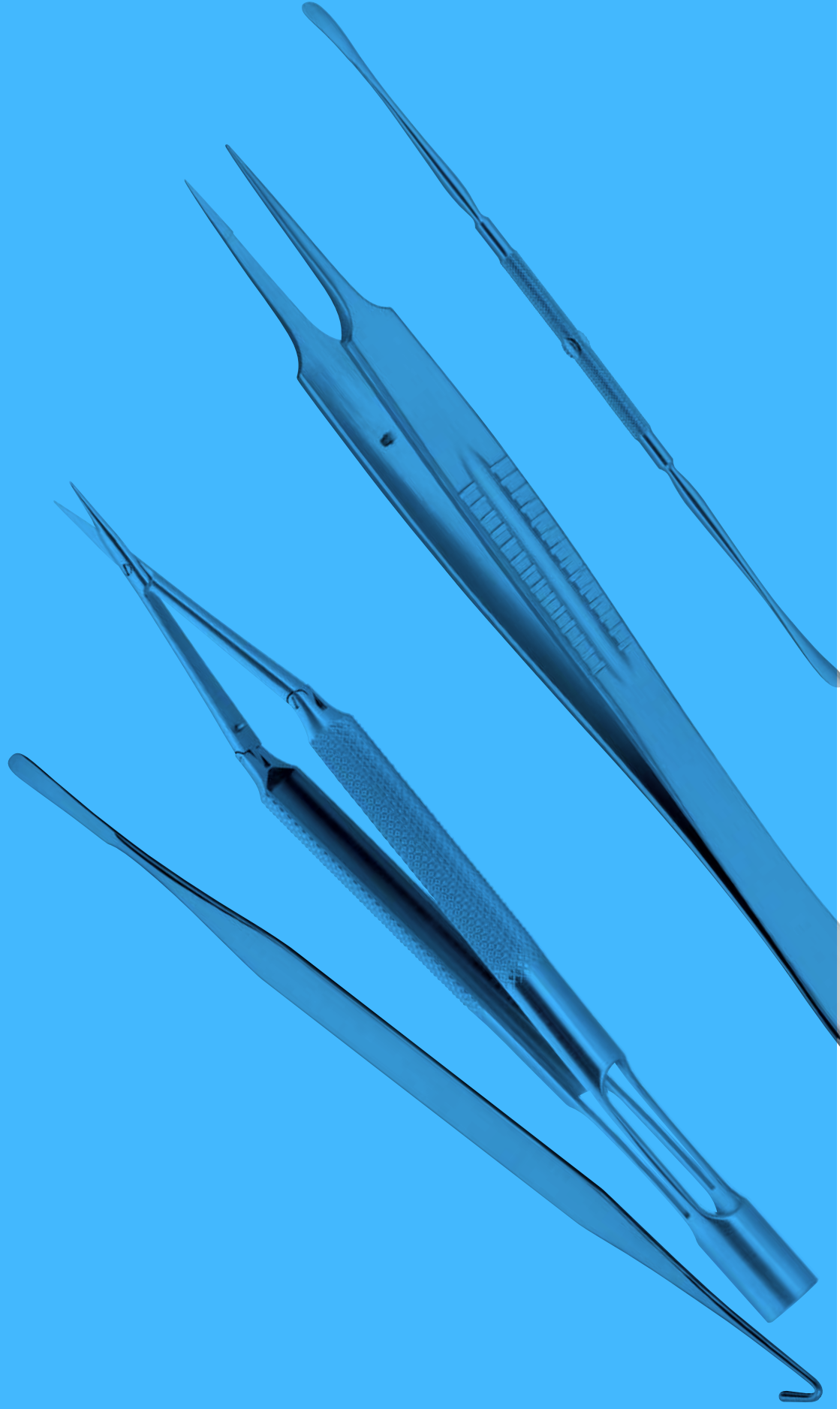


07

MICRO SURGERY
2025
CATALOGUE



WE



ZULFIQAR SURGICAL is known for its quality For Surgical instruments and Instruments for surgery and is an operated business that has been dedicated to providing healthcare professionals with the products they need to perform their art since a long. Our high quality, precision crafted instruments have been an essential product line to our worthy customers. We carry an exclusive range of Surgical Instruments, Surgical Instruments and Healthcare Equipments.

We are committed to providing a product line that guarantees quality and extraordinary value to the end user as well as a level of service, satisfaction, and cooperation that has become a hallmark of Eco Surgical. We have gained a reputation for offering unbeatable prices on branded items as well as outstanding customer service on all levels. Every single instrument is manufactured with great care. We are working hard for maintaining higher standard. Advanced techniques are used in manufacturing and finishing departments in order to made best products.

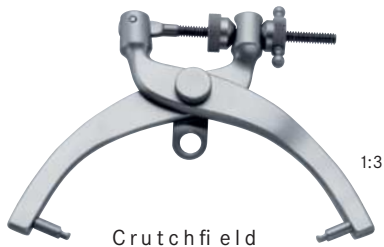
ZULFIQAR SURGICAL is offering you huge selection of our products and much more for a fast growing number of customers. We make it easy for you to browse our products, place orders and benefit from our quality services.

We assure you quality instruments, most competitive prices and shortest delivery time.



All Instruments are available in a high-polish or satin/matte finish according to individual preferences. Constructed from high-quality 300, 410, or 420 Series Stainless Steel, these devices meet or exceed all ASTM/AISI International Standards for Medical Device production. Undergoing the latest finishing techniques to prevent rusting and future corrosion, our state-of-the-art method includes, but is not limited to: surface grinding, broaching, heat treating, drilling, tapping, electronically passivating and I.D./O.D. Threading.

Schädelhalter
Cervical traction tongs
Pincas de traction crânienne
Pinzas de traccion cranial
Pinze per trazione craniale



Crutchfield

Z 64900-00

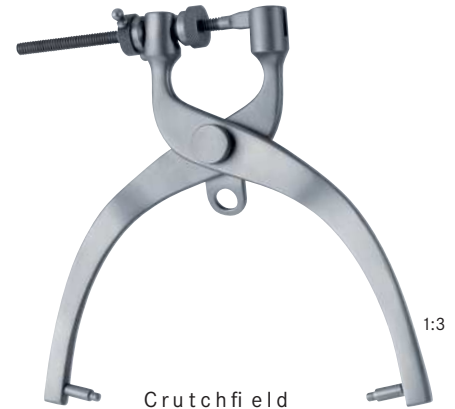


1:3



1:3

	3.5 mm Ø	5.0 mm Ø
<u>Z 64901-02</u>	x	x



Crutchfield

Z 64901-00

Satz à 2 Stück für Z 64900-00 und Z 64901-00
Set of 2 pieces for Z 64900-00 and Z 64901-00
Jeu à 2 pièces pour Z 64900-00 et pour Z 64901-00
Juego con 2 piezas para Z 64900-00 y para Z 64901-00
Completo con 2 pezzi per Z 64900-00 e per Z 64901-00



Z 64903-00

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

Z 64903-01

Ersatzdorn für Z 64903-00
Spare pin for Z 64903-00

Goupille de rechange pour Z 64903-00
Pivote de cambio para Z 64903-00

Punta di ricambio Z 64903-00

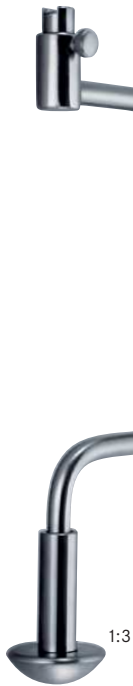


Z 98584-19

Gabelschlüssel, doppelendig zu Z 64903-00
Wrench, double-ended for Z 64903-00

Clé de fixation, pour Z 64903-00
Llave de tuercas, para Z 64903-00

Chiave per Z 64903-00



Hudson

270 mm - 10 $\frac{3}{4}$ " **Z 64850-00**

komplett mit 4 Bohrern (Fig. 1 - Fig. 4) und Verlängerungsstück
complete with 4 twist drills (Fig. 1 - Fig. 4) and extension piece
complet 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



Z 64851-00

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



Fig. 1
9 mm Ø
Z 64851-01



Fig. 2
14 mm Ø
Z 64851-02



Fig. 3
16 mm Ø
Z 64851-03



Fig. 4
22 mm Ø
Z 64851-04



Cushing
14 mm Ø
Z 64854-05



McKenzie
13 mm Ø
Z 64854-09



1:2

De Martel

330mm -13"

[Z 64912-33](#)



1:2

Adson

150 mm - 6"

[Z 64907-15](#)

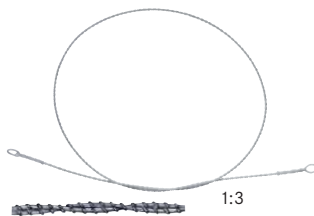


1:2

De Vilbiss

210 mm - 8 1/4"

[Z 64909-21](#)



1:3

Olivecrona

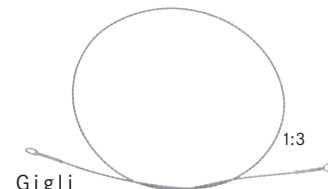
300 mm - 12" [Z 64915-30](#)

400 mm - 16" [Z 64915-40](#)

500 mm - 20" [Z 64915-50](#)

600 mm - 23 1/2" [Z 64915-60](#)

700 mm - 27 1/2" [Z 64915-70](#)



1:3

Gigli

300 mm - 12" [Z 64917-30](#)

400 mm - 16" [Z 64917-40](#)

500 mm - 20" [Z 64917-50](#)

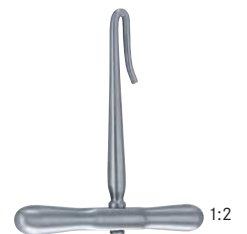
6-teilig

6 wires twisted

6 fils tordus

6 alambres torcidos

6 fili attorcigliati



1:2

Gigli

[Z 64916-00](#)



Z 64920-00

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 autostatico, 1 brazo flexible con
soporte, completo con brazo y soporte para spatulas
llanas

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

Z 64922-00

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 flexibles
con soporte, completo con brazos y soporte para
2 spatulas llanas

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



Z 64922-02

Fixierungsvorrichtung allein, für 2 Spannarme
Fixation base only, holding 2 flexible arms

Support seul pour 2 tendeurs
Soporte solo para 2 brazos de separador
Supporto di fissaggio per 2 bracci, solo

Z 64920-02

Fixierungsvorrichtung allein, für 1 Spannarm
Fixation base only, holding 1 flexible arm

Support seul pour 1 tendeur
Soporte solo para 1 brazo de separador
Supporto di fissaggio per 1 braccio, solo

Z 64925-02

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

Z 64925-01

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 solo para la fijación de spatulas
de 4 mm y 5 mm Ø al brazo
Supporto solo per spatole con asta tonda
di Ø 4 mm e 5 mm

Z 64926-00

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



1:2

Cushing

	180 mm - 7"
7 mm x 9 mm	Z 65240-07
11 mm x 13 mm	Z 65240-11
15 mm x 18 mm	Z 65240-15
18 mm x 22 mm	Z 65240-18



1:2

Olivecrona

	180 mm - 7"	180 mm - 7"
7 mm x 9 mm	Z 65246-07	Z 65245-07
11 mm x 13 mm	Z 65246-11	Z 65245-11
15 mm x 18 mm	Z 65246-15	Z 65245-15
18 mm x 22 mm	Z 65246-18	Z 65245-18

konvex
convex
convexe
convexa
convessa

konkav
concave
concave
cóncava
concava

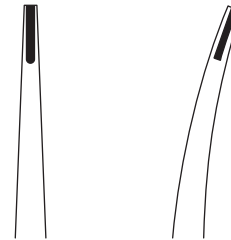


1:2

Heifetz

	200 mm - 8"
x = 8 mm	Z 65249-08
x = 11 mm	Z 65249-11
x = 14 mm	Z 65249-14
x = 17 mm	Z 65249-17
x = 20 mm	Z 65249-20

biegsam
malleable
malléable
maleable
flessibile



McKenzie

150 mm - 6"	Z 65020-15	Z 65021-15
190 mm - 7½"	Z 65020-19	Z 65021-19

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



1:2

McKenzie

148 mm x 40 mm x 6 mm - 5/8" x 1½" x 1/2"	Z 65001-00
---	------------

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



1:1

Z 65000-00

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



Raney 1:2
150 mm - 6" **Z 65040-15**



Olivecrona-Toennis
(Scoville) 1:2
x = 140 mm - 5 1/2" **Z 65010-24**



Z 65039-00

Kopfhautklammer „Raney“
Scalpcip "Raney"

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

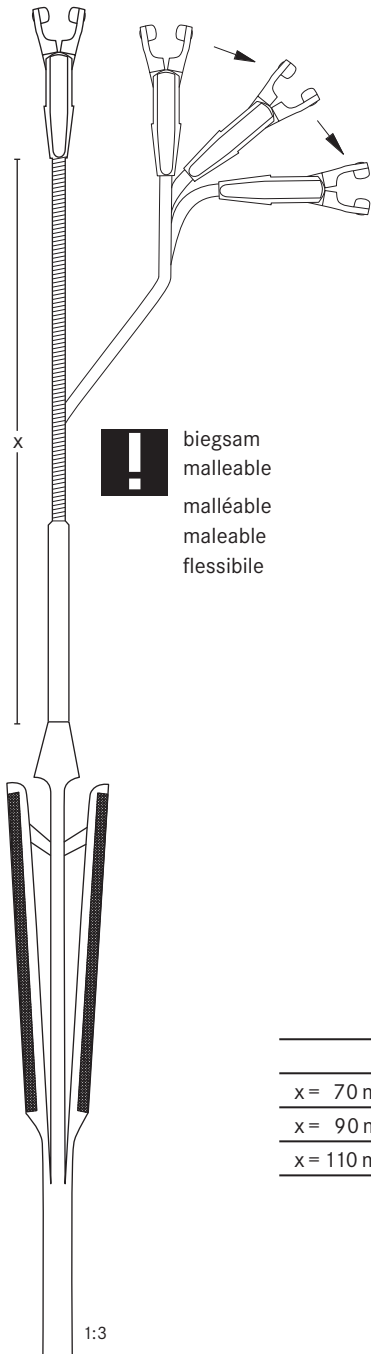


Z 65038-00

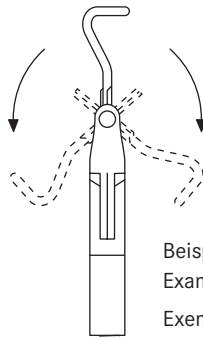
Kopfhautklammer „Köln“
Scalpcip "Köln"

Agrafes pour le cuir chevelu «Köln»
Grapa para cuero cabelludo "Köln"
Agraftes per il cuoio capelluto „Köln“

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



! biegsam
 malleable
 malléable
 maleable
 flessibile



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



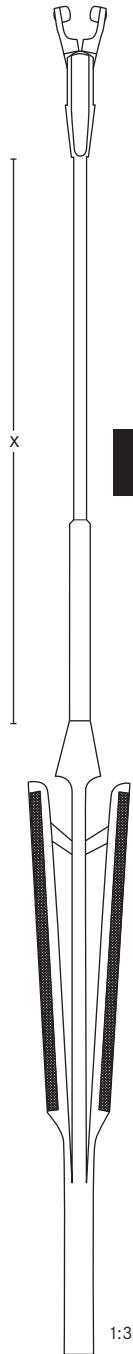
	Mini	Standard
x = 70 mm - 2 ³ / ₄ "	Z 65080-01	Z 65081-01
x = 90 mm - 3 ¹ / ₂ "	Z 65080-02	Z 65081-02
x = 110 mm - 4 ¹ / ₄ "	Z 65080-03	Z 65081-03

nicht drehbar
 non rotating
 non rotatif
 non rotatorio
 non rotativo

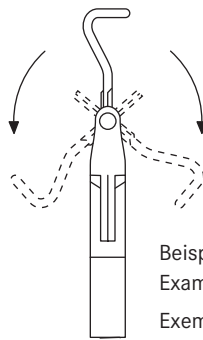


	Mini	Standard
	Z 65082-01	Z 65083-01
	Z 65082-02	Z 65083-02
	Z 65082-03	Z 65083-03

drehbar
 rotating
 rotatif
 rotatorio
 rotativo



starr
rigid
rigide
rigido
rigido



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



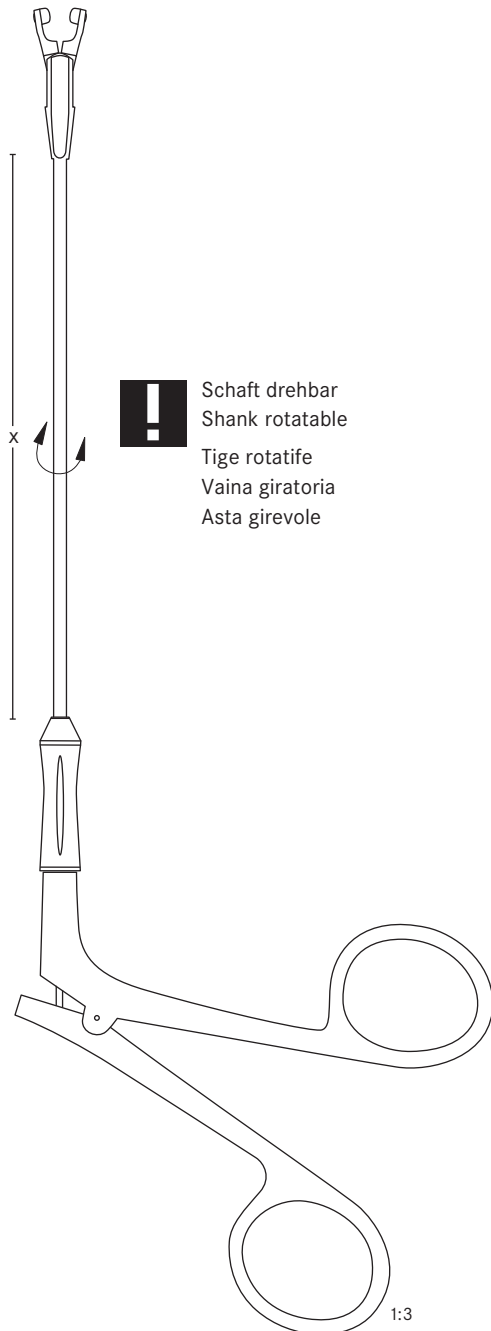
	Mini	Standard
x = 70 mm - 2 $\frac{3}{4}$ "	Z 65084-01	Z 65085-01
x = 90 mm - 3 $\frac{1}{2}$ "	Z 65084-02	Z 65085-02
x = 110 mm - 4 $\frac{1}{4}$ "	Z 65084-03	Z 65085-03

nicht drehbar
non rotating
non rotatif
non rotatorio
non rotativo

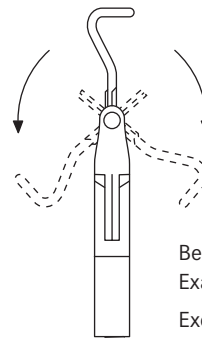


	Mini	Standard
	Z 65086-01	Z 65087-01
	Z 65086-02	Z 65087-02
	Z 65086-03	Z 65087-03

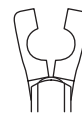
drehbar
rotating
rotatif
rotatorio
rotativo



! Schaft drehbar
 Shank rotatable
 Tige rotative
 Vaina giratoria
 Asta girevole



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



	Mini	Standard
x = 70 mm - 2 ³ / ₄ "	Z 65092-01	Z 65093-01
x = 90 mm - 3 ¹ / ₂ "	Z 65092-02	Z 65093-02
x = 110 mm - 4 ¹ / ₄ "	Z 65092-03	Z 65093-03
x = 130 mm - 5"	Z 65092-04	Z 65093-04

nicht drehbar
 non rotating
 non rotatif
 non rotatorio
 non rotativo

Mini	Standard
Z 65094-01	Z 65095-01
Z 65094-02	Z 65095-02
Z 65094-03	Z 65095-03
Z 65094-04	Z 65095-04

drehbar
 rotating
 rotatif
 rotatorio
 rotativo

1:3



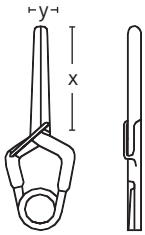
	Mini	Standard
17 mm - 6 ³ / ₄ "		
18 mm - 7 " Z 65088-18	Z 65088-18	Z 65089-18
21 mm - 8 ¹ / ₄ "		
23 mm - 9 "		

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



Mini	Standard
Z 65090-17	Z 65091-17
Z 65090-21	Z 65091-21
Z 65090-23	Z 65091-23

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



x = Maullänge
 x = Jaw length
 x = Longueur du mors
 x = Longitud de la boca
 x = Lunghezza del morso

y = max. Maulöffnung
 y = max. opening
 y = Ouverture max. du mors
 y = Apertura max. de la boca
 y = Apertura mass. del morso

gms = Schließkraft
 gms = Pressure
 gms=Force de fermeture
 gms = Presión
 gms= Sforza della chiusura



Bei Bestellung von Titan Clips, bitte der Artikelnummer ein „T“ hinzufügen.

For titanium clips, please add a “T” to the reference number.

Pour des clips en titane, veuillez ajouter un «T» à la référence.

Para clips de titanio, por favor añadir un “T” a la referencia.

Per clips in titanio, per favore aggiungete al numero d’articolo un “T”.

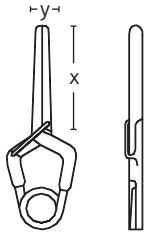
Yasargil-Standard

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, antimagnetico
 per chiusura permanente, acciaio di alta qualita, 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
Z 65096-00	Z 65097-00	Z 65098-00	Z 65099-00	Z 65100-00	Z 65101-00	Z 65102-00

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
Z 65103-00	Z 65104-00	Z 65105-00	Z 65106-00	Z 65107-00	Z 65108-00	Z 65109-00

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
Z 65110-00	Z 65111-00	Z 65112-00	Z 65113-00	Z 65114-00	Z 65115-00



x = Maullänge
x = Jaw length
x = Longueur du mors
x = Longitud de la boca
x = Lunghezza del morso

y = max. Maulöffnung
y = max. opening
y = Ouverture max. du mors
y = Apertura max. de la boca
y = Apertura mass. del morso

gms = Schließkraft
gms = Pressure
gms = Force de fermeture
gms = Presión
gms = Sforza della chiusura



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Para clips de titanio, por favor añadir un “T” a la referencia.

Per clips in titanio, per favore aggiungete al numero d’articolo un “T”.



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

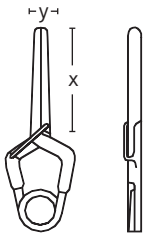
para oclusión permanente, acero de alta calidad, antimagnético

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
Z 65116-00	Z 65117-00	Z 65118-00	Z 65119-00	Z 65120-00	Z 65121-00	Z 65122-00

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
Z 65123-00	Z 65124-00	Z 65125-00	Z 65126-00	Z 65127-00	Z 65128-00

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
Z 65129-00	Z 65130-00	Z 65131-00	Z 65132-00	Z 65133-00



x = Maullänge	y = max. Maulöffnung	gms = Schließkraft
x = Jaw length	y = max. opening	gms = Pressure
x = Longueur du mors	y = Ouverture max. du mors	gms = Force de fermeture
x = Longitud de la boca	y = Apertura max. de la boca	gms = Presión
x = Lunghezza del morso	y = Apertura mass. del morso	gms = Sforza della chiusura



Bei Bestellung von Titan Clips, bitte der Artikelnummer ein „T“ hinzufügen.

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Per clips in titanio, per favore aggiungete al numero d’articolo un “T”.

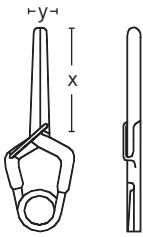


Yasargil-Standard

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 3,5mm, acier de haute qualité, anti-magnétique
 para oclusión permanente, con finestra de 3,5mm, acero de alta calidad, antimagnetico
 per chiusura permanente, con finestra di 3,5mm, 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
Z 65134-00	Z 65135-00	Z 65136-00	Z 65137-00	Z 65138-00	Z 65139-00

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
Z 65140-00	Z 65141-00	Z 65142-00



x = Maullänge
x = Jaw length
x = Longueur du mors
x = Longitud de la boca
x = Lunghezza del morso

y = max. Maulöffnung
y = max. opening
y = Ouverture max. du mors
y = Apertura max. de la boca
y = Apertura mass. del morso

gms = Schließkraft
gms = Pressure
gms = Force de fermeture
gms = Presión
gms = Sforza della chiusura



Bei Bestellung von Titan Clips, bitte der Artikelnummer ein „T“ hinzufügen.

For titanium clips, please add a “T” to the reference number.

Pour des clips en titane, veuillez ajouter un «T» à la référence.

Para clips de titanio, por favor añadir un “T” a la referencia.

Per clips in titanio, per favore aggiuntete al numero d’articolo un “T”.

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

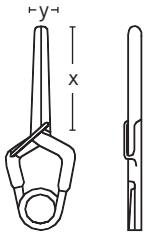
pour fermeture permanente, avec fenestra 3.5mm, acier de haute qualité, anti-magnétique

para oclusión permanente, con finestra de 3.5mm, acero de alta calidad, antimagnetico

per chiusura permanente, con finestra di 3.5mm, 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 = 7.9 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
Z 65143-00	Z 65144-00	Z 65145-00	Z 65146-00	Z 65147-00	Z 65148-00

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
Z 65149-00	Z 65150-00	Z 65151-00	Z 65152-00	Z 65153-00	Z 65154-00



x = Maullänge
 x = Jaw length
 x = Longueur du mors
 x = Longitud de la boca
 x = Lunghezza del morso

y = max. Maulöffnung
 y = max. opening
 y = Ouverture max. du mors
 y = Apertura max. de la boca
 y = Apertura mass. del morso

gms = Schließkraft
 gms = Pressure
 gms = Force de fermeture
 gms = Presión
 gms = Sforza della chiusura



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For titanium clips, please add a “T” to the reference number.

Pour des clips en titane, veuillez ajouter un «T» à la référence.

Para clips de titanio, por favor añadir un “T” a la referencia.

Per clips in titanio, per favore aggiungete al numero d’articolo un “T”.

Yasargil-Standard

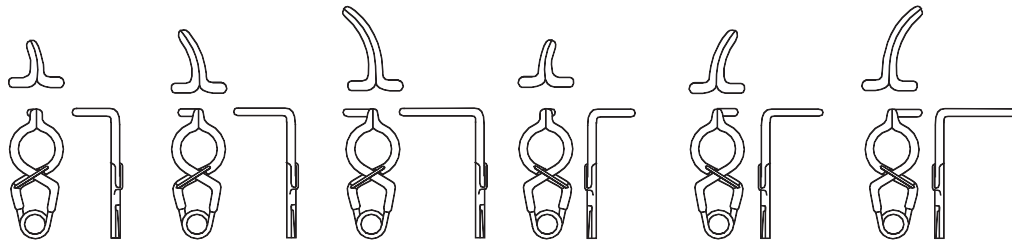
für permanenten Verschluss, mit Fenster 5.0 mm, aus hochwertigem Implantatstahl, antimagnetisch

for permanent closure, with window 5.0 mm, in high quality implant steel, antimagnetic

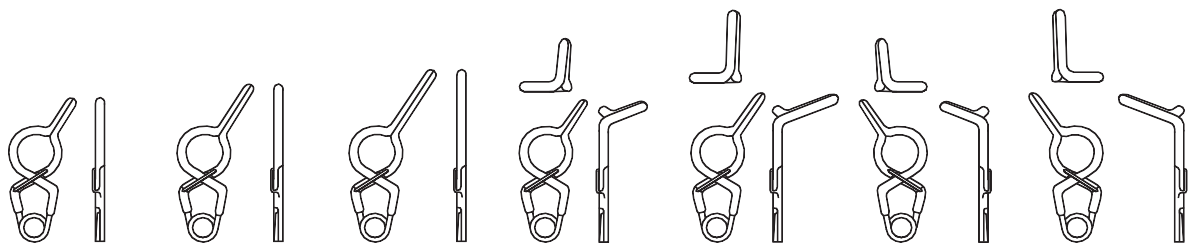
pour fermeture permanente, avec fenestra 5.0mm, acier de haute qualité, anti-magnétique

para oclusión permanente, con finestra de 5.0mm, acero de alta calidad, antimagnetico

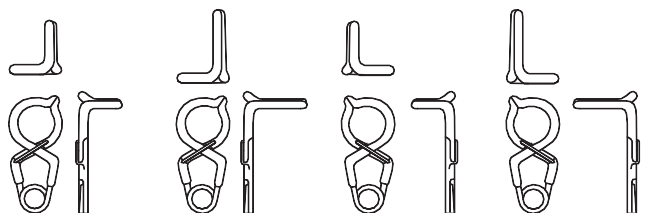
per chiusura permanente, con finestra di 5.0mm, acciaio di alta qualita, antimagnetico



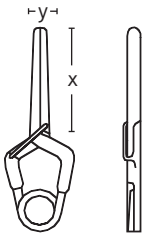
x = 5.0 mm	x = 7.0 mm	x = 10.0 mm	x = 5.0 mm	x = 7.0 mm	x = 10.0 mm
y = 5.8 mm	y = 5.8 mm	y = 5.8 mm	y = 5.8 mm	y = 5.8 mm	y = 5.8 mm
gms = 150	gms = 150	gms = 150	gms = 150	gms = 150	gms = 150
Z 65155-00	Z 65156-00	Z 65157-00	Z 65158-00	Z 65159-00	Z 65160-00



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
Z 65161-00	Z 65162-00	Z 65163-00	Z 65164-00	Z 65165-00	Z 65166-00	Z 65167-00



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
Z 65168-00	Z 65169-00	Z 65170-00	Z 65171-00



x = Maullänge	y = max. Maulöffnung	gms = Schließkraft
x = Jaw length	y = max. opening	gms = Pressure
x = Longueur du mors	y = Ouverture max. du mors	gms = Force de fermeture
x = Longitud de la boca	y = Apertura max. de la boca	gms = Presión
x = Lunghezza del morso	y = Apertura mass. del morso	gms = Sforza della chiusura



Bei Bestellung von Titan Clips, bitte der Artikelnummer ein „T“ hinzufügen.

For titanium clips, please add a “T” to the reference number.

Pour des clips en titane, veuillez ajouter un «T» à la référence.

Para clips de titanio, por favor añadir und “T” a la referencia.

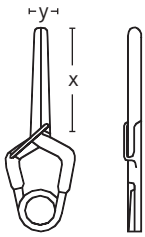
Per clips in titanio, per favore aggiuntete al numero d’articolo un “T”.

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, antimagnetico
per uso temporaneo, acciaio di alta qualita, 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
Z 65172-00	Z 65173-00	Z 65174-00	Z 65175-00	Z 65176-00	Z 65177-00	Z 65178-00

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
Z 65179-00	Z 65180-00	Z 65181-00	Z 65182-00



x = Maullänge
 x = Jaw length
 x = Longueur du mors
 x = Longitud de la boca
 x = Lunghezza del morso

y = max. Maulöffnung
 y = max. opening
 y = Ouverture max. du mors
 y = Apertura max. de la boca
 y = Apertura mass. del morso

gms = Schließkraft
 gms = Pressure
 gms = Force de fermeture
 gms = Presión
 gms = Sforza della chiusura



Bei Bestellung von Titan Clips, bitte der Artikelnummer ein „T“ hinzufügen.

For titanium clips, please add a “T” to the reference number.

Pour des clips en titane, veuillez ajouter un «T» à la référence.

Para clips de titanio, por favor añadir un “T” a la referencia.

Per clips in titanio, per favore aggiuntete al numero d’articolo un “T”.

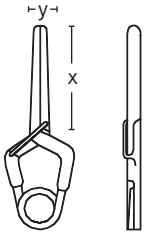
Yasargil-Mini

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, antimagnetico
 per chiusura permanente, acciaio di alta qualita, 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
Z 65183-00	Z 65184-00	Z 65185-00	Z 65186-00	Z 65187-00	Z 65188-00	Z 65189-00

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
Z 65190-00	Z 65191-00	Z 65192-00	Z 65193-00	Z 65194-00	Z 65195-00	Z 65196-00

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	x = 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	gms = 130
Z 65197-00	Z 65198-00	Z 65199-00	Z 65200-00	Z 65201-00	Z 65202-00



x = Maullänge	y = max. Maulöffnung	gms = Schließkraft
x = Jaw length	y = max. opening	gms = Pressure
x = Longueur du mors	y = Ouverture max. du mors	gms = Force de fermeture
x = Longitud de la boca	y = Apertura max. de la boca	gms = Presión
x = Lunghezza del morso	y = Apertura mass. del morso	gms = Sforza della chiusura



Bei Bestellung von Titan Clips, bitte der Artikelnummer ein „T“ hinzufügen.

For titanium clips, please add a “T” to the reference number.

Pour des clips en titane, veuillez ajouter un «T» à la référence.

Para clips de titanio, por favor añadir und “T” a la referencia.

Per clips in titanio, per favore aggiuntete al numero d’articolo un “T”.

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, antimagnetico

per chiusura temporanea, acciaio di alta qualita, 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
Z 65203-00	Z 65204-00	Z 65205-00	Z 65206-00	Z 65207-00	Z 65208-00

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



Scoville
 230 mm - 9"
 x = 8 mm
Z 65236-23



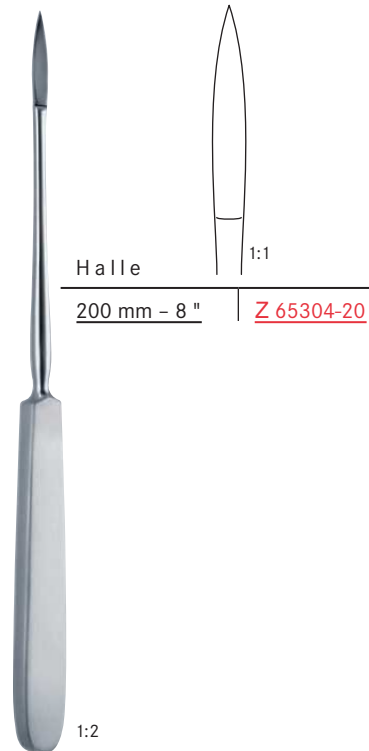
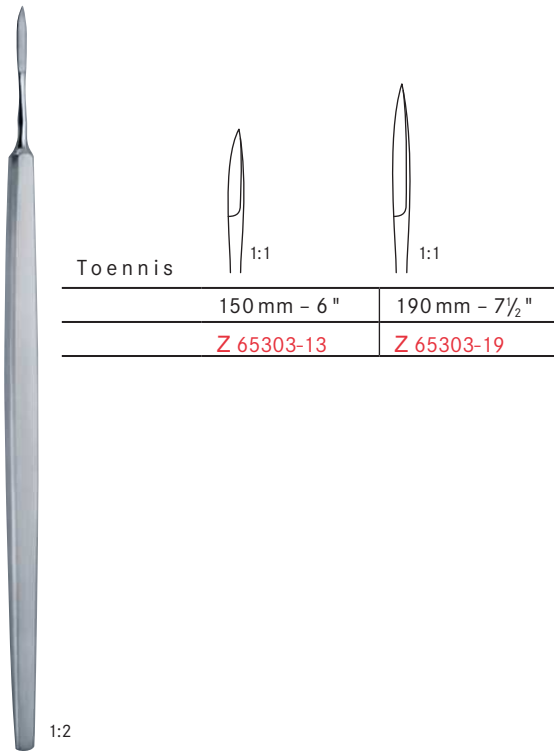
Holsher
 240 mm - 9½"
 x = 7 mm
Z 65237-24



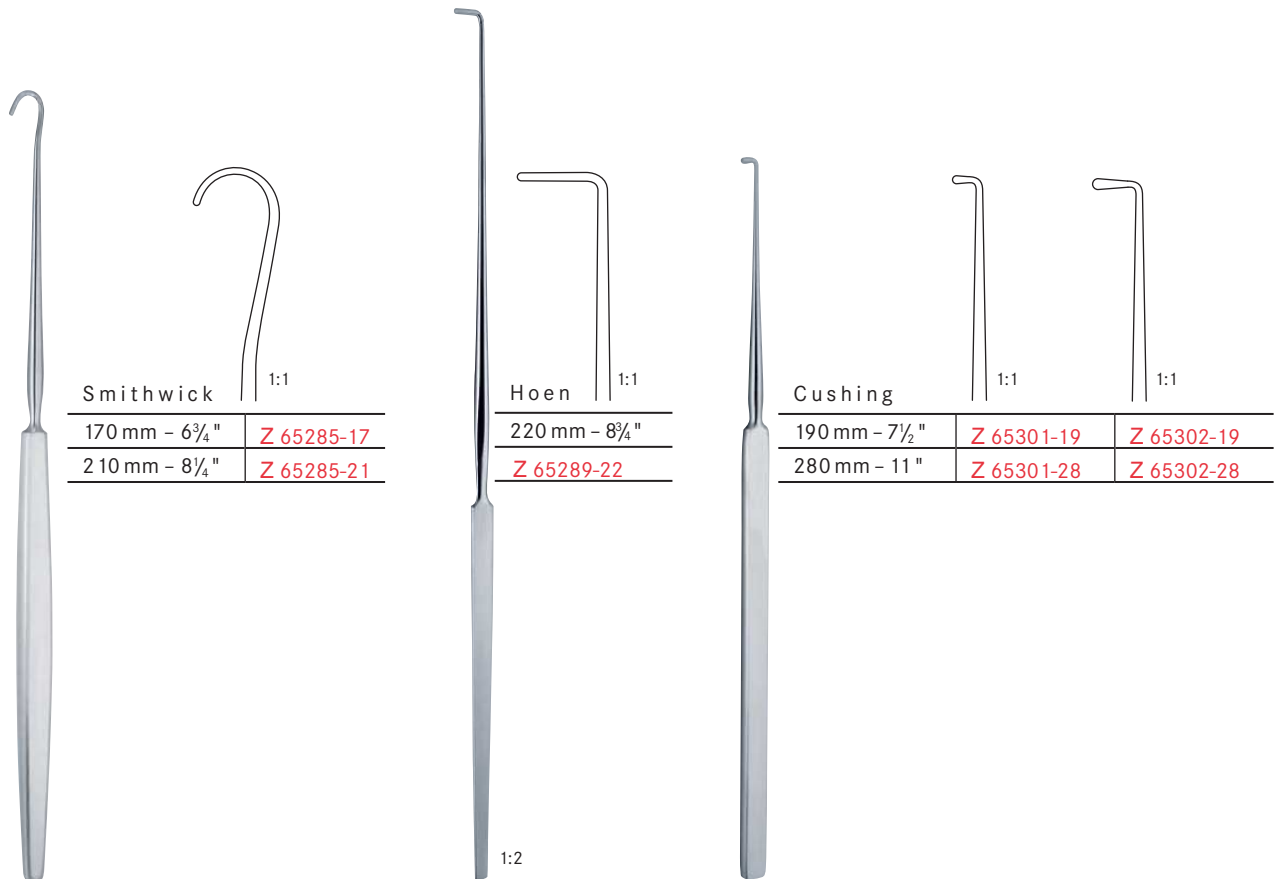
Scoville
 200 mm - 8"
 x = 7 mm
Z 65238-19

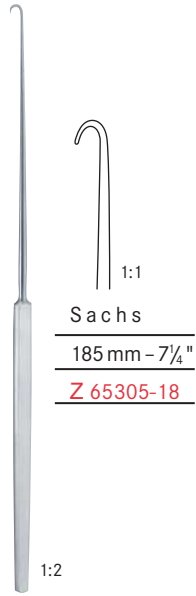


Martin
 210 mm - 8¼"
 x = 7 mm
Z 65239-19

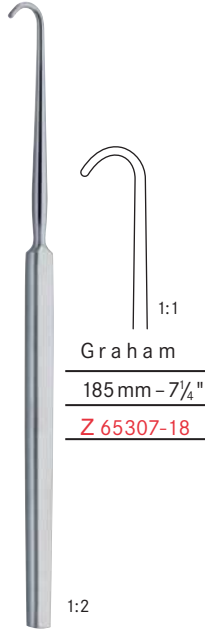


Nervenhaken – Durahaken
 Nerve hooks – Dura hooks
 Crochets à nerfs – Crochets pour duremère
 Ganchos para nervios – Ganchos para duramadre
 Uncini per nervi – Uncini per duramadre

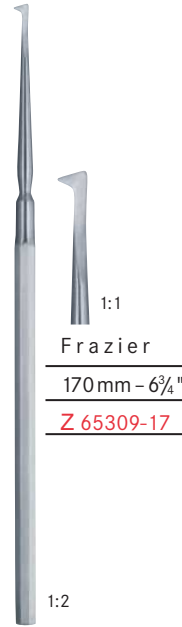




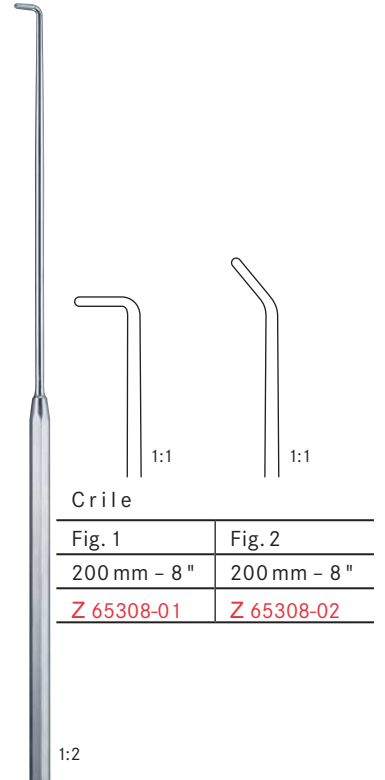
Sachs
185 mm – 7¹/₄"
Z 65305-18



Graham
185 mm – 7¹/₄"
Z 65307-18



Frazier
170 mm – 6³/₄"
Z 65309-17



Crile	
Fig. 1	Fig. 2
200 mm – 8"	200 mm – 8"
Z 65308-01	Z 65308-02



Toennis
150 mm – 6"
Z 65310-15



Dandy
200 mm – 8" **Z 65315-20**



Z 65316-20

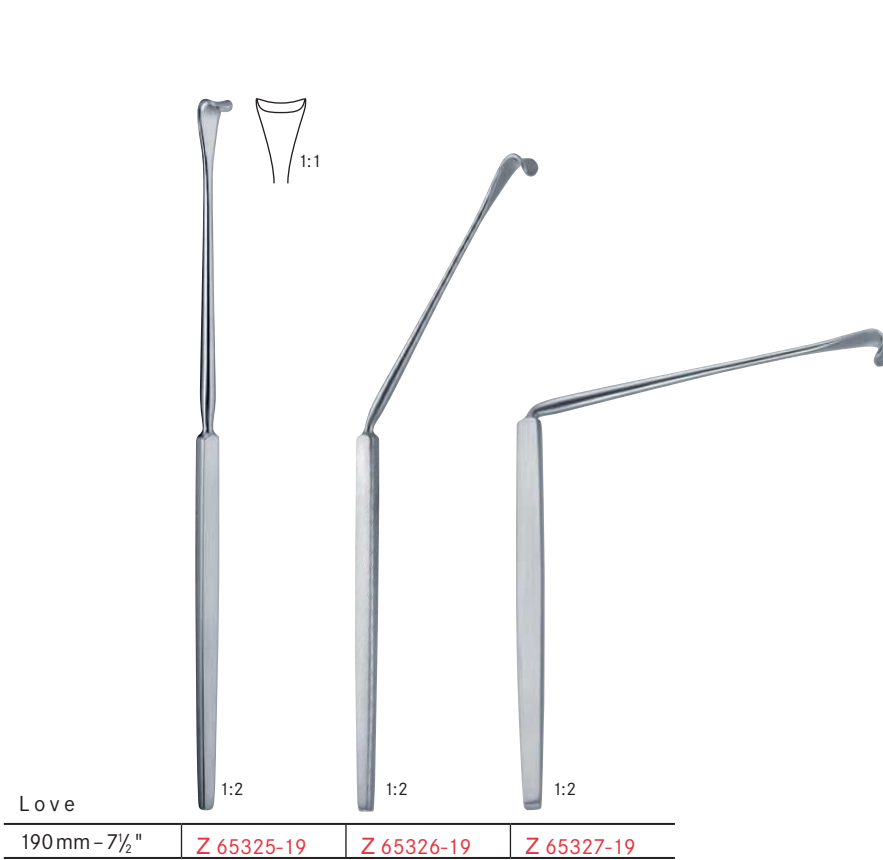


Z 65317-20



Adson
200 mm – 8" **Z 65320-20** **Z 65321-20**

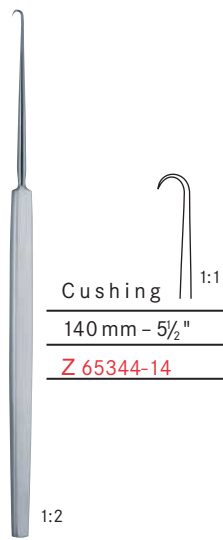
Nervenhaken – Durahaken
 Nerve hooks – Dura hooks
 Crochets à nerfs – Crochets pour duremère
 Ganchos para nervios – Ganchos para duramadre
 Uncini per nervi – Uncini per duramadre



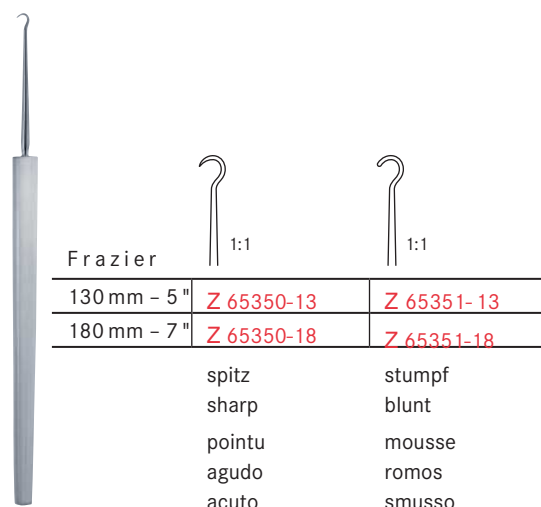
Love	1:2	1:2	1:2
190 mm – 7½"	Z 65325-19	Z 65326-19	Z 65327-19



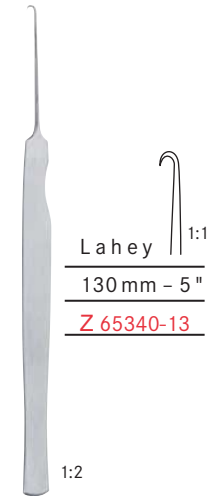
Yasargil	
310 mm – 12¼"	Z 65399-01
410 mm – 16¼"	Z 65399-02
Galeahaken Galea retractor Retracteur Galea Retractor de Galea Rettrotore di Galea	



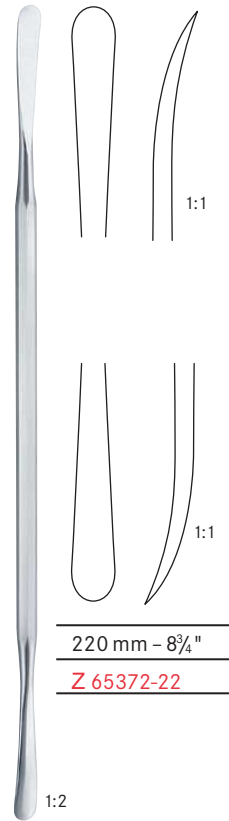
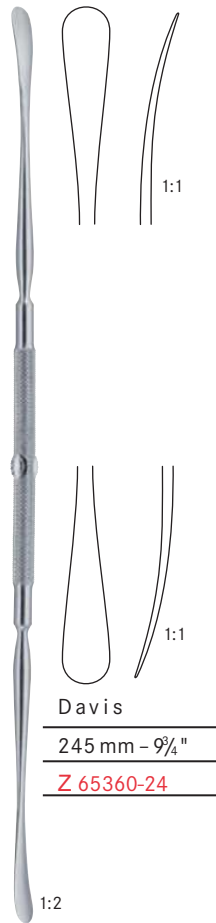
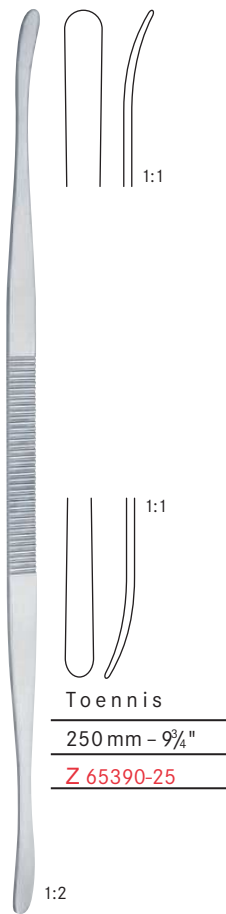
Cushing	1:1
140 mm – 5½"	
Z 65344-14	



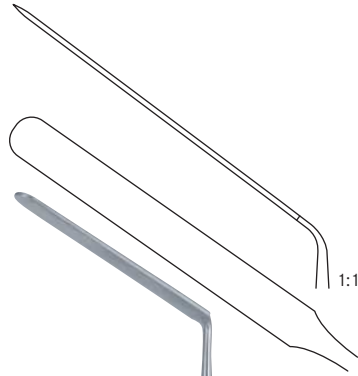
Frazier	1:1	1:1
130 mm – 5"	Z 65350-13	Z 65351-13
180 mm – 7"	Z 65350-18	Z 65351-18
	spitz sharp pointu agudo acuto	stumpf blunt mousse romos smusso



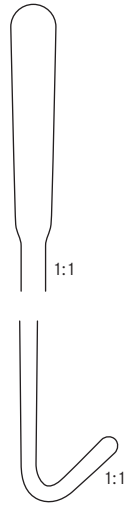
Lahey	1:1
130 mm – 5"	
Z 65340-13	



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



Horsley
 200 mm - 8"
 Z 65379-20



Smithwick
 290 mm - 11½"
 Z 65380-29



Sachs
 210 mm - 8¼" Z 65385-21



Z 65386-21



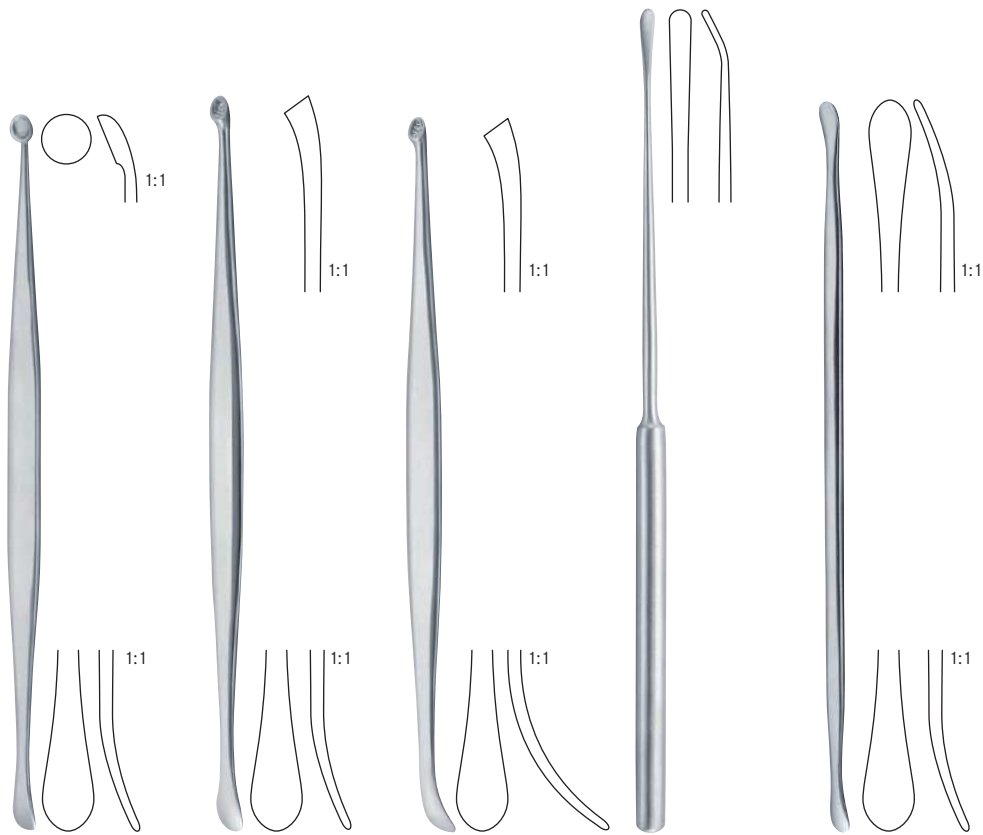
Z 65387-21



1:2








1:2



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"
Z 65395-01	Z 65395-02	Z 65395-03	Z 65395-04	Z 65395-05







Yasargil	 1:1	 1:1	 1:1	 1:1	 1:1
190 mm - 7½"	Z 65400-01	Z 65400-02	Z 65400-03	Z 65400-04	Z 65400-05

gerade
 straight
 droit
 recta
 rette

190 mm - 7½"	Z 65401-01	Z 65401-02	Z 65401-03	Z 65401-04	Z 65401-05
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bajonett
 bayonet
 baionette
 bayoneta
 baionetta

Yasargil	 1:1	 1:1	 1:1	 1:1
190 mm - 7½"	Z 65400-06	Z 65400-07	Z 65400-08	Z 65400-09

gerade
 straight
 droit
 recta
 rette

190 mm - 7½"	Z 65401-06	Z 65401-07	Z 65401-08	Z 65401-09
--------------	------------	------------	------------	------------

bajonett
 bayonet
 baionette
 bayoneta
 baionetta

	 1:1	 1:1
190 mm - 7½"	Z 65400-10	Z 65400-11

gerade, mit Dreh-Fixierhaken
 straight, with Twist-fixationhook
 droit, avec crochet de fixation
 recta, con gancho de fijación
 rette, con uncino di fissaggio „Twist“



Kraus



Yasargil



Koos



Koos

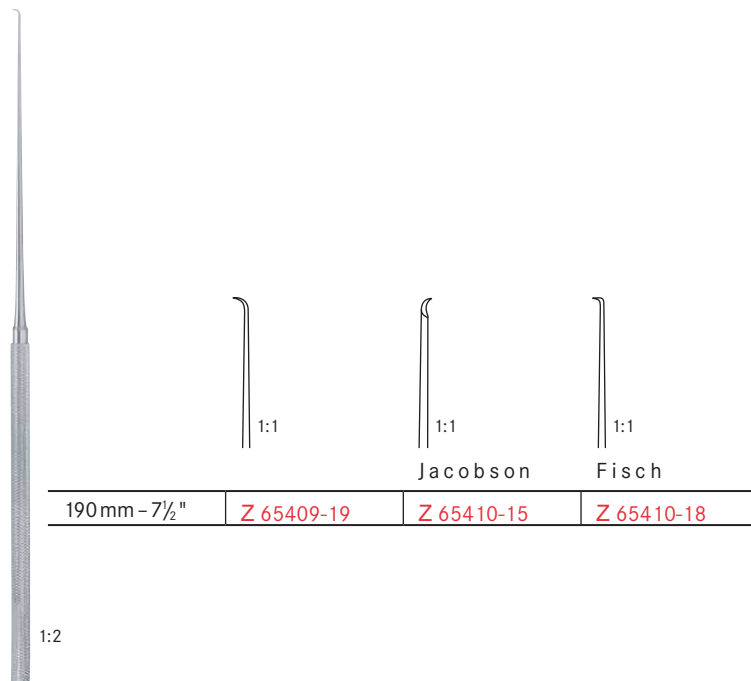
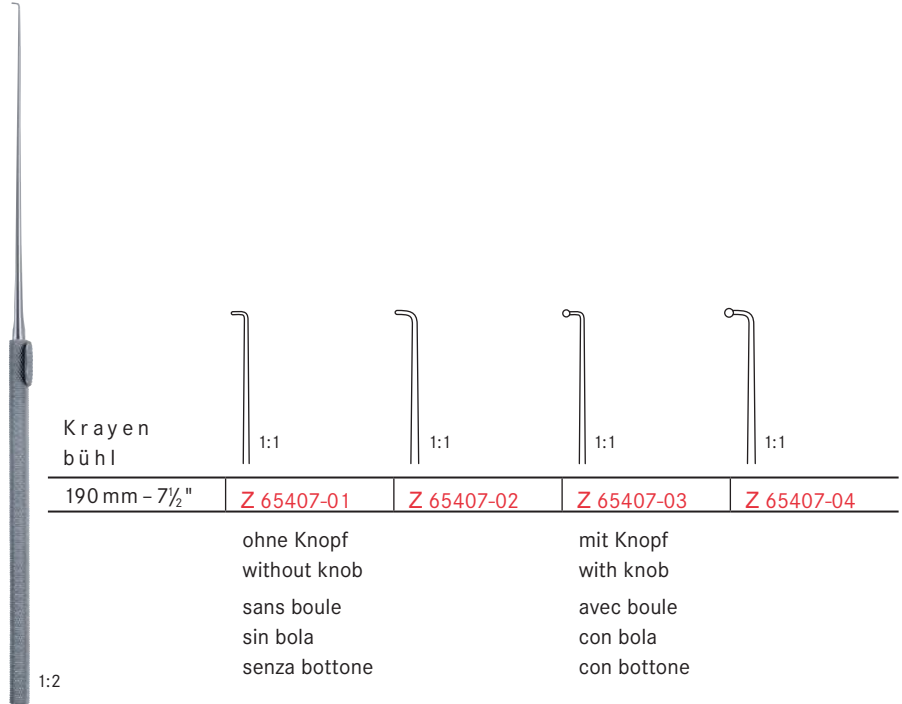


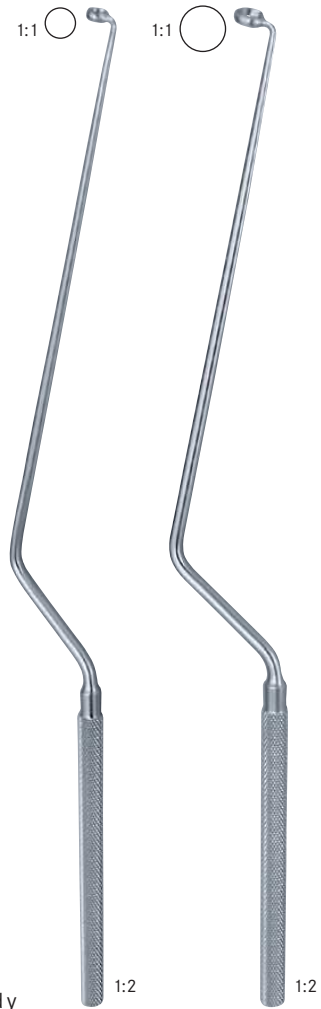
Koos

190 mm - $\frac{7\frac{1}{2}}{16}$ "	Z 65410-	Z 65410-20	Z 65411-16	Z 65411-17	Z 65411-18
--------------------------------------	----------	------------	------------	------------	------------

19
bajonett
bayonet
baionette
bayoneta
baionetta

1:1





Hardy

Hardy

250 mm - 9 3/4"	Z 65430-01	Z 65430-02	Z 65430-03	Z 65430-04
-----------------	------------	------------	------------	------------

	4 mm Ø	6 mm Ø
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bajonett, innen scharf
bayonet, sharp inner edge
baionette, tranchant à l'interne
bayoneta, cortante al interno
baionetta, acuto all'interno

270 mm - 10 3/4"	Z 65435-01	Z 65435-02
------------------	------------	------------

bajonett, biegsam
bayonet, malleable
baionette, malléable
bayoneta, maleable
baionetta, flessibile

Mikro-Federschere
Micro scissors
Micro ciseaux
Micro tijeras
Forbici per micro chirurgia



Vannas

80 mm - 3 1/4"

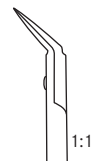
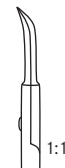
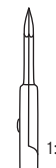
Z 7282-08

Z 7283-08

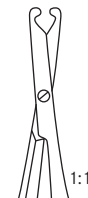
Vannas-Schneide
Vannas-blade
Lame de Vannas
Hoja de Vannas
Lama Vannas



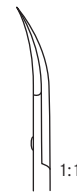
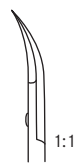
120 mm - 4 ³ / ₄ "	Z 65753-01	Z 65753-02
Schneide 10 mm, spitz Blade 10 mm, sharp Lame 10 mm, pointu Hoja 10 mm, agudas Lama 10 mm, acuta	gerade straight droite recta retta	gebogen curved courbe curva curva



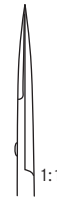
120 mm - 4 ³ / ₄ "	Z 65753-03	Z 65753-04	Z 65753-05
Vannas-Schneide Vannas-blade Lama de Vannas Hoja de Vannas Vannas-lama	gerade straight droite recta retta	gebogen curved courbe curva curva	aufgewinkelt angled up angulaire acodada angolata



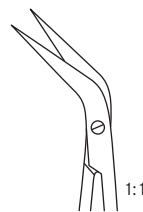
120 mm - 4 ³ / ₄ "	Z 65753-06
Venen-Schneide (Biemer) Vein-blade (Biemer) Lame pour vènes (Biemer) Hoja para venas (Biemer) Lama per vene (Biemer)	gerade straight droite recta retta



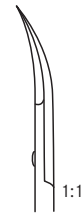
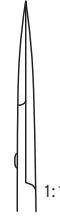
150 mm - 6"	Z 65670-15	Z 65671-15	Z 65672-15	Z 65673-15
	gerade, kurze Schneide straight, short blades droites, lames courtes recta, hojas cortas retta, lama corta	gebogen, kurze Schneide curved, short blades courbes, lames courtes curva, hojas cortas curva, lama corta	gerade, lange Schneide straight, 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



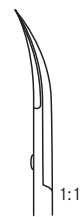
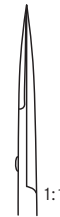
150 mm - 6"	Z 65678-15	Z 65679-15
	gerade, gezahnt straight, saw edge droites, dentelés recta, dentadas retta, dentata	gebogen, gezahnt curved, saw edge courbes, dentelés curva, dentadas curva, dentata



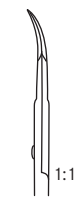
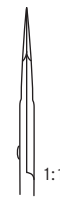
150 mm - 6"	Z 65675-15
180 mm - 7"	Z 65677-18
	kniegebogen, 45° angled on flat, 45° angulaires, 45° acodada, 45° angolata, 45°



120 mm - 4 ³ / ₄ "	Z 65751-01	Z 65751-02
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 "	Z 65751-03	Z 65751-04
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



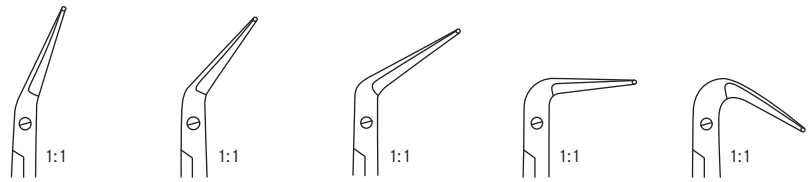
145 mm - 5 ³ / ₄ "	Z 65751-05	Z 65751-06
Vannas-Schneide, glatt, spitz Vannas-blades, smooth, sharp Lames de Vannas, lisses, pointues Hojas de Vannas, lisas, agudas Vannas-lama, liscia, acuta	gerade straight droits recta retta	gebogen curved courbes curva curva



			
	1:1	1:1	1:1
Yasargil			
185 mm - 7 1/4"	Z 65500-18	Z 65501-18	Z 65502-18
	gerade straight droits recta retta	gebogen curved courbes curva curva	kniegebogen angled on flat angulaires acodada angolata



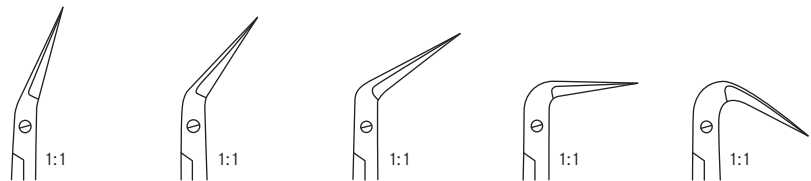
Yasargil



	25°	45°	60°	90°	125°
170 mm - 6 ³ / ₄ "	Z 65754-25	Z 65754-45	Z 65754-60	Z 65754-90	Z 65754-12

mit Knopf
with ball
avec bouton
con botón
con bottone

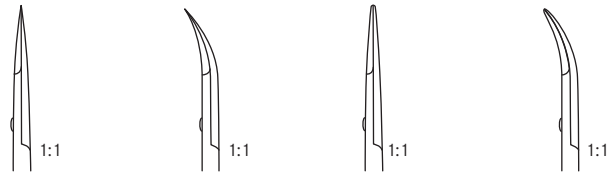
Yasargil



	25°	45°	60°	90°	125°
170 mm - 6 ³ / ₄ "	Z 65755-25	Z 65755-45	Z 65755-60	Z 65755-90	Z 65755-12

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 – 5¾"	Z 65602-01	Z 65603-01	Z 65602-02	Z 65603-02
180 mm – 7"	Z 65610-01	Z 65611-01	Z 65610-02	Z 65611-02

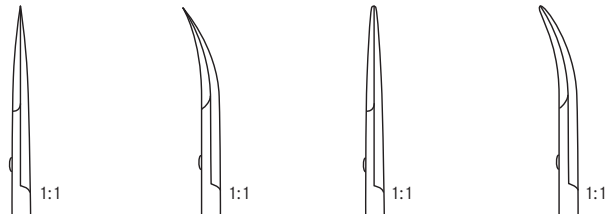
kurze Schneide 8 mm, glatt
 short blades 8 mm, smooth
 lames courtes 8 mm, lisses
 hojas cortas 8 mm, lisos
 lama corta 8 mm, liscia

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 – 5¾"	Z 65602-03	Z 65603-03	Z 65602-04	Z 65603-04
180 mm – 7"	Z 65610-03	Z 65611-03	Z 65610-04	Z 65611-04

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



Vannas

	7 mm Ø	7 mm Ø
120 mm - 5 "	Z 65612-12	Z 65613-12

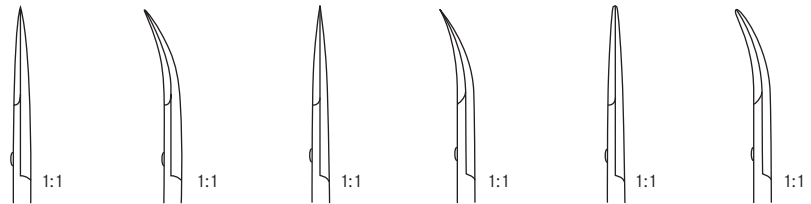
Vannas

	8 mm Ø	8 mm Ø
150 mm - 6 "	Z 65600-15	Z 65601-15

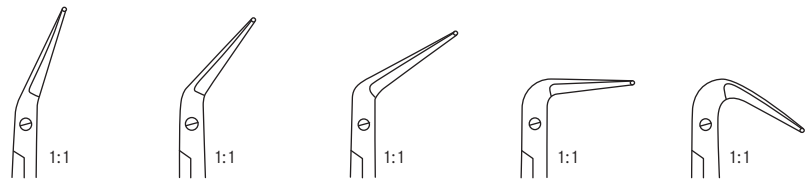
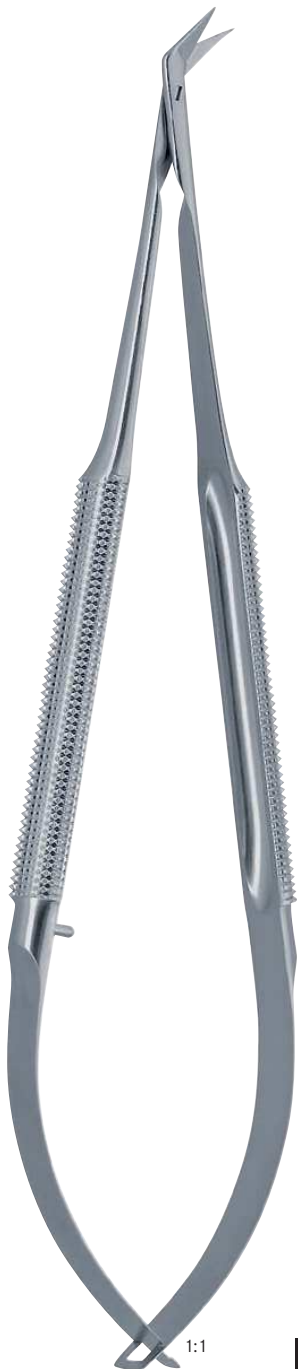
Castroviejo

	8 mm Ø	8 mm Ø
150 mm - 6 "	Z 65610-15	Z 65611-15

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

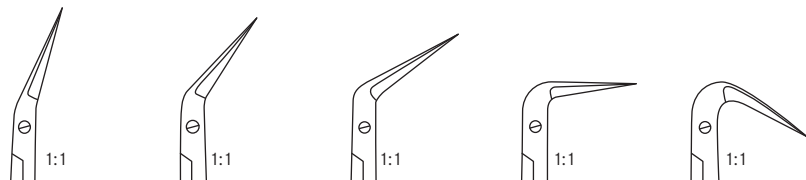


	180 mm - 7"	180 mm - 7"	180 mm - 7"	180 mm - 7"	180 mm - 7"	180 mm - 7"
8 mm Ø	Z 65606-18	Z 65607-18				
10 mm Ø	Z 65602-18	Z 65603-18	Z 65618-18	Z 65619-18	Z 65620-18	Z 65621-18



8 mm Ø	25°	45°	60°	90°	125°
180 mm - 7"	Z 65758-25	Z 65758-45	Z 65758-60	Z 65758-90	Z 65758-12

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



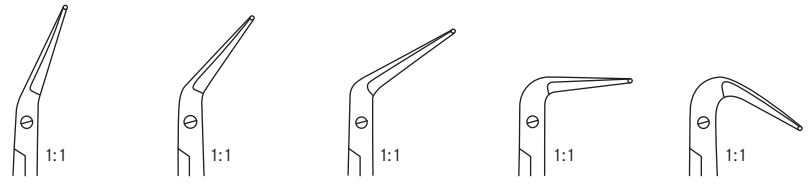
8 mm Ø	25°	45°	60°	90°	125°
180 mm - 7"	Z 65759-25	Z 65759-45	Z 65759-60	Z 65759-90	Z 65759-12

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



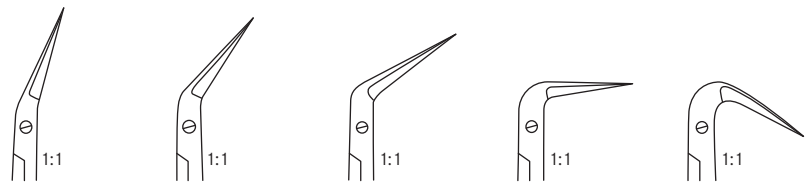
mit gedrehtem Schluss
90° twisted
tordus de 90°
giradas de 90°
girato 90°

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



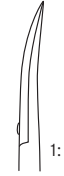
8 mm Ø	25°	45°	60°	90°	125°
180 mm – 7 "	Z 65756-25	Z 65756-45	Z 65756-60	Z 65756-90	Z 65756-12

mit Knopf
 with ball
 avec bouton
 con botón
 con bottone



8 mm Ø	25°	45°	60°	90°	125°
180 mm – 7 "	Z 65757-25	Z 65757-45	Z 65757-60	Z 65757-90	Z 65757-12

ohne Knopf
 without ball
 sans bouton
 sin botón
 senza bottone



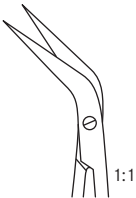


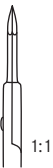
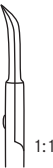
	9 mm Ø	9 mm Ø
150 mm - 6"	Z 65680-15	Z 65681-15

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

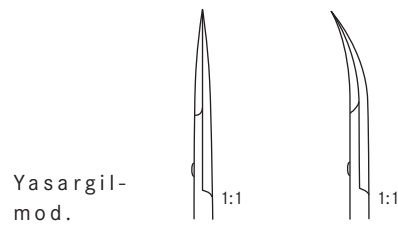


Jacobson

	 1:1	 1:1	 1:1
160 mm - 6 1/4"	Z 65521-16	Z 65522-16	Z 65520-16
180 mm - 7"	Z 65521-18	Z 65522-18	Z 65520-18
	gerade straight	gebogen curved	abgewinkelt, 45° angled, 45°
	droits recta retta	courbes curva curva	angulaires, 45° acodada, 45° angolata, 45°

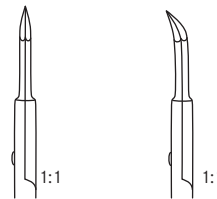
	 1:1	 1:1
160 mm - 6 1/4"	Z 65526-16	Z 65527-16
180 mm - 7"	Z 65526-18	Z 65527-18

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



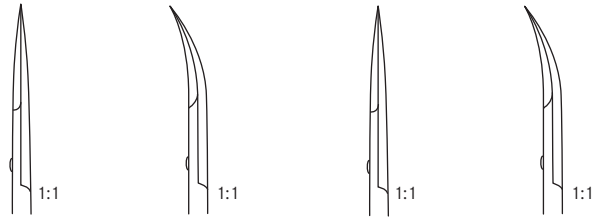
Yasargil-
mod.

180 mm - 7"	Z 65556-18	Z 65557-18
225 mm - 8¾"	Z 65556-22	Z 65557-22

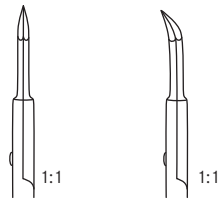


220 mm - 8¾"	Z 65558-22	Z 65559-22
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Vannas Schneide
Vannas blade
Lame de Vannas
Hoja de Vannas
Lama Vannas

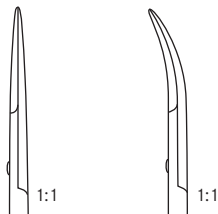


200 mm – 8"	Z 65760-01	Z 65760-02	Z 65760-03	Z 65760-04
225 mm – 8¾"	Z 65761-01	Z 65761-02	Z 65761-03	Z 65761-04
Schneide glatt, spitz Blade smooth, sharp	gerade straight	gebogen curved	gerade, gezahnt straight, saw edge	gebogen, gezahnt curved, saw edge
Lames lisses, pointues Hojas lisas, agudas Lama liscia, acuta	droits recta retta	courbes curva curva	droits, dentelées recta, dentadas retta, dentata	courbes, dentelées curva, dentadas curva, dentata



200 mm – 8"	Z 65760-05	Z 65760-06
225 mm – 8¾"	Z 65761-05	Z 65761-06

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

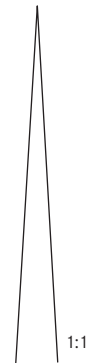
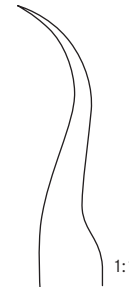
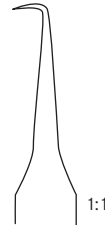
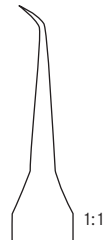
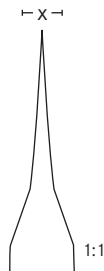


200 mm – 8"	Z 65760-07	Z 65760-08
225 mm – 8¾"	Z 65761-07	Z 65761-08

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



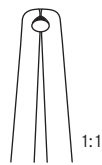
Typ
Juwelier



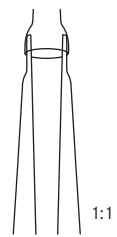
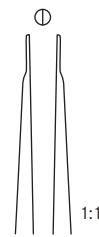
x = 0.2 mm	x = 0.3 mm	x = 0.3 mm	x = 0.2 mm	x = 0.3 mm
110 mm - 4 ³ / ₄ "	110 mm - 4 ³ / ₄ "	110 mm - 4 ³ / ₄ "	120 mm - 4 ³ / ₄ "	120 mm - 4 ³ / ₄ "
Z 66001-11	Z 66002-11	Z 66003-11	Z 66005-12	Z 66006-13



Pierse



120 mm - 4 ³ / ₄ "	Z 66009-12
135 mm - 5 ¹ / ₄ "	Z 66009-13



	x = 0.2 mm	x = 0.3 mm
110 mm - 4 ³ / ₄ "	Z 66015-02	Z 66015-03

sehr fein
very fine
très fin
muy fino
molto fino

1:1

Mikro-Knüpfpinzetten
 Micro suture tying forceps
 Micro pinces pour sutures
 Micro pinzas para suturas
 Pinze per micro-suture



Lazar	0.5 mm	0.8 mm
155 mm - 6"	Z 66016-01	Z 66016-02



1:1

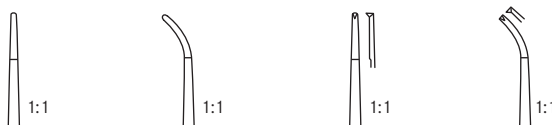


	9 mm Ø	9 mm Ø	9 mm Ø	9 mm Ø
180 mm - 7 "	Z 65695-01	Z 65695-02	Z 65695-05	Z 65695-06

Fadenplatte 6,0 mm x 0,4 mm, glatt 1x2 1x2
Tying platform 6.0 mm x 0.4 mm, smooth
Plate-forme 6.0 mm x 0.4 mm, lisse
Plataforma 6.0 mm x 0.4 mm, lisa
Piano per sutura 6.0 mm x 0.4 mm, liscio

	9 mm Ø	9 mm Ø	9 mm Ø	9 mm Ø
180 mm - 7 "	Z 65695-09	Z 65695-10	Z 65695-13	Z 65695-14

Fadenplatte 6,0 mm x 0,4 mm, diamantiert 1x2 1x2
Tying platform 6.0 mm x 0.4 mm, diamond coated
Plate-forme 6.0 mm x 0.4 mm, diamanté
Plataforma 6.0 mm x 0.4 mm, diamantada
Piano per sutura 6.0 mm x 0.4 mm, diamantata



	9 mm Ø	9 mm Ø	9 mm Ø	9 mm Ø
180 mm - 7 "	Z 65695-03	Z 65695-04	Z 65695-07	Z 65695-08

Fadenplatte 6,0 mm x 0,8 mm, glatt 1x2 1x2
Tying platform 6.0 mm x 0.8 mm, smooth
Plate-forme 6.0 mm x 0.8 mm, lisse
Plataforma 6.0 mm x 0.8 mm, lisa
Piano per sutura 6.0 mm x 0.8 mm, liscio

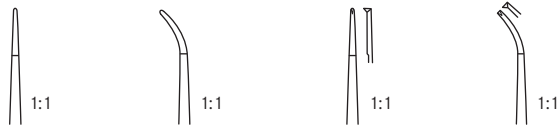
	9 mm Ø	9 mm Ø	9 mm Ø	9 mm Ø
180 mm - 7 "	Z 65695-11	Z 65695-12	Z 65695-15	Z 65695-16

Fadenplatte 6,0 mm x 0,8 mm, diamantiert 1x2 1x2
Tying platform 6.0 mm x 0.8 mm, diamond coated
Plate-forme 6.0 mm x 0.8 mm, diamanté
Plataforma 6.0 mm x 0.8 mm, diamantada
Piano per sutura 6.0 mm x 0.8 mm, diamantata



	0.3 mm	0.3 mm	0.7 mm	0.7 mm
8 mm Ø				
150 mm – 6 "	Z 65686-01	Z 65686-02	Z 65686-03	Z 65686-04
180 mm – 7 "	Z 65687-01	Z 65687-02	Z 65687-03	Z 65687-04
210 mm – 8¼ "	Z 65688-01	Z 65688-02	Z 65688-03	Z 65688-04
230 mm – 9 "	Z 65689-01	Z 65689-02	Z 65689-03	Z 65689-04

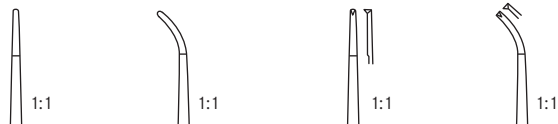
Maul glatt
 Jaw smooth
 Mors lisse
 Boca lisa
 Morso liscio



	0.3 mm	0.3 mm	0.7 mm	0.7 mm
8 mm Ø				
150 mm – 6 "	Z 65686-05	Z 65686-06	Z 65686-09	Z 65686-10
180 mm – 7 "	Z 65687-05	Z 65687-06	Z 65687-09	Z 65687-10
210 mm – 8¼ "	Z 65688-05	Z 65688-06	Z 65688-09	Z 65688-10
230 mm – 9 "	Z 65689-05	Z 65689-06	Z 65689-09	Z 65689-10

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

1x2 1x2

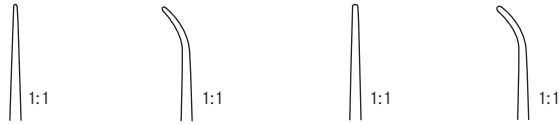


	0.3 mm	0.3 mm	0.7 mm	0.7 mm
8 mm Ø				
150 mm – 6 "	Z 65686-07	Z 65686-08	Z 65686-11	Z 65686-12
180 mm – 7 "	Z 65687-07	Z 65687-08	Z 65687-11	Z 65687-12
210 mm – 8¼ "	Z 65688-07	Z 65688-08	Z 65688-11	Z 65688-12
230 mm – 9 "	Z 65689-07	Z 65689-08	Z 65689-11	Z 65689-12

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

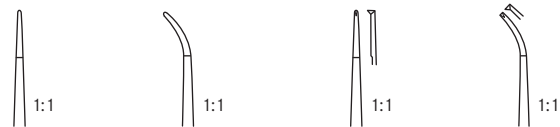
1x2 1x2

 diamantiert
diamond coated
diamanté
diamantada
diamantato



8 mm Ø	0.3 mm	0.3 mm	0.7 mm	0.7 mm
150 mm - 6 "	Z 65686-13	Z 65686-14	Z 65686-15	Z 65686-16
180 mm - 7 "	Z 65687-13	Z 65687-14	Z 65687-15	Z 65687-16
210 mm - 8 ¼ "	Z 65688-13	Z 65688-14	Z 65688-15	Z 65688-16
230 mm - 9 "	Z 65689-13	Z 65689-14	Z 65689-15	Z 65689-16

diamantiert
diamond coated
diamanté
diamantada
diamantata



8 mm Ø	0.3 mm	0.3 mm	0.7 mm	0.7 mm
150 mm - 6 "	Z 65686-17	Z 65686-18	Z 65686-21	Z 65686-22
180 mm - 7 "	Z 65687-17	Z 65687-18	Z 65687-21	Z 65687-22
210 mm - 8 ¼ "	Z 65688-17	Z 65688-18	Z 65688-21	Z 65688-22
230 mm - 9 "	Z 65689-17	Z 65689-18	Z 65689-21	Z 65689-22





Fadenplatte 6,0 mm x 0,3 mm, diamantiert 1x2 1x2
Tying platform 6.0 mm x 0.3 mm, diamond coated
Plate-forme 6.0 mm x 0.3 mm, diamanté
Plataforma 6.0 mm x 0.3 mm, diamantada
Piano per sutura 6.0 mm x 0.3 mm, diamantata






8 mm Ø	0.3 mm	0.3 mm	0.7 mm	0.7 mm
150 mm - 6 "	Z 65686-19	Z 65686-20	Z 65686-23	Z 65686-24
180 mm - 7 "	Z 65687-19	Z 65687-20	Z 65687-23	Z 65687-24
210 mm - 8 ¼ "	Z 65688-19	Z 65688-20	Z 65688-23	Z 65688-24
230 mm - 9 "	Z 65689-19	Z 65689-20	Z 65689-23	Z 65689-24

Fadenplatte 6,0 mm x 0,7 mm, diamantiert 1x2 1x2
Tying platform 6.0 mm x 0.7 mm, diamond coated
Plate-forme 6.0 mm x 0.7 mm, diamanté
Plataforma 6.0 mm x 0.7 mm, diamantada
Piano per sutura 6.0 mm x 0.7 mm, diamantata



Jacobson				
160 mm - 6 1/4"	Z 65733-01	Z 65733-02	Z 65733-03	Z 65733-04
180 mm - 7"	Z 65734-01	Z 65734-02	Z 65734-03	Z 65734-04
	gerade, spitz straight, sharp droit, pointue recta, aguda retta, acuta	gerade, stumpf straight, blunt droit, mousse recta, roma retta, smussa	abgewinkelt, spitz angled, sharp angulaire, pointue acodada, aguda angolata, acuta	abgewinkelt, stumpf angled, blunt angulaire, mousse acodada, roma angolata, smussa
160 mm - 6 1/4"	Z 65733-05	Z 65733-06	Z 65733-07	Z 65733-08
180 mm - 7"	Z 65734-05	Z 65734-06	Z 65734-07	Z 65734-08
diamantiert diamond coated	gerade, spitz straight, sharp	gerade, stumpf straight, blunt	abgewinkelt, spitz angled, sharp	abgewinkelt, stumpf angled, blunt
diamanté diamantada diamantata	droit, pointue recta, aguda retta, acuta	droit, mousse recta, roma retta, smussa	angulaire, pointue acodada, aguda angolata, acuta	angulaire, mousse acodada, roma angolata, smussa



Yasargil	 1:1	 1:1	 1:1
	225 mm – 8 ³ / ₄ "	225 mm – 8 ³ / ₄ "	225 mm – 8 ³ / ₄ "
3.0 mm	Z 65580-03	Z 65581-03	Z 65582-03
5.0 mm	Z 65580-05	Z 65581-05	Z 65582-05
	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



1:1



200 mm – 8"	Z 65732-05	Z 65732-06	Z 65732-07	Z 65732-08
225 mm – 8¾"	Z 65732-13	Z 65732-14	Z 65732-15	Z 65732-16
diamantiert	gerade, spitz	gerade, stumpf	abgewinkelt, spitz	abgewinkelt, stumpf
diamond coated	straight, sharp	straight, blunt	angled, sharp	angled, blunt
diamanté	droit, pointue	droit, mousse	angulaire, pointue	angulaire, mousse
diamantado	recta, aguda	recta, roma	acodada, aguda	acodada, roma
diamantato	retta, acuta	retta, smussa	angolata, acuta	angolata, smussa

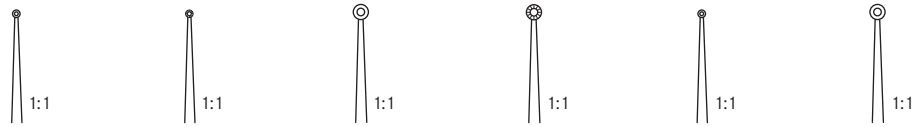
225 mm – 8¾"	Z 65876-22 Titan	Z 65877-22 Titan
	gerade, spitz	gerade, stumpf
	straight, sharp	straight, blunt
	droit, pointue	droit, mousse
	recta, aguda	recta, roma
	retta, acuta	retta, smussa

200 mm – 8"	Z 65732-03	Z 65732-04
225 mm – 8¾"	Z 65732-11	Z 65732-12
	abgewinkelt, spitz	abgewinkelt, stumpf
	angled, sharp	angled, blunt
	angulaire, pointue	angulaire, mousse
	acodada, aguda	acodada, roma
	angolata, acuta	angolata, smussa



	9 mm Ø	9 mm Ø	9 mm Ø	9 mm Ø
210 mm - 8 1/4"	Z 65730-01	Z 65730-02	Z 65730-03	Z 65730-04
230 mm - 9"	Z 65730-09	Z 65730-10	Z 65730-11	Z 65730-12
	gerade, spitz straight, sharp droit, pointue recta, aguda retta, acuta	gerade, stumpf straight, blunt droit, mousse recta, roma retta, smussa	abgewinkelt, spitz angled, sharp angulaire, pointue acodada, aguda angolata, acuta	abgewinkelt, stumpf angled, blunt angulaire, mousse acodada, roma angolata, smussa

	9 mm Ø	9 mm Ø	9 mm Ø	9 mm Ø
210 mm - 8 1/4"	Z 65730-05	Z 65730-06	Z 65730-07	Z 65730-08
230 mm - 9"	Z 65730-13	Z 65730-14	Z 65730-15	Z 65730-16
diamantiert diamond coated diamanté diamantada diamantata	gerade, spitz straight, sharp droit, pointue recta, aguda retta, acuta	gerade, stumpf straight, blunt droit, mousse recta, roma retta, smussa	abgewinkelt, spitz angled, sharp angulaire, pointue acodada, aguda angolata, acuta	abgewinkelt, stumpf angled, blunt angulaire, mousse acodada, roma angolata, smussa



9 mm Ø	1.0 x 0.5 mm	1.0 x 0.5 mm	2.0 x 1.0 mm	2.0 x 1.0 mm	1.0 x 0.5 mm	2.0 x 1.0 mm
150 mm – 6 "	Z 65698-01	Z 65698-02	Z 65698-03	Z 65698-04	Z 65698-05	Z 65698-06
180 mm – 7 "	Z 65698-07	Z 65698-08	Z 65698-09	Z 65698-10	Z 65698-11	Z 65698-12
210 mm – 8 1/4 "	Z 65699-01	Z 65699-02	Z 65699-03	Z 65699-04	Z 65699-05	Z 65699-06
230 mm – 9 "	Z 65699-07	Z 65699-08	Z 65699-09	Z 65699-10	Z 65699-11	Z 65699-12
	glatt smooth	fein gerieft slightly serrated	glatt smooth	fein gerieft slightly serrated	diamantiert diamond coated	diamantiert diamond coated
	lisse lisa liscia	légèrement strié lig. estriada fina zigrinata	lisse lisa liscia	légèrement strié lig. estriada fina zigrinata	diamanté diamantada diamantata	diamanté diamantada diamantata



9 mm Ø	1.0 x 0.5 mm	1.0 x 0.5 mm	2.0 x 1.0 mm	2.0 x 1.0 mm	1.0 x 0.5 mm	2.0 x 1.0 mm
150 mm – 6 "	Z 65696-01	Z 65696-02	Z 65696-03	Z 65696-04	Z 65696-05	Z 65696-06
180 mm – 7 "	Z 65696-07	Z 65696-08	Z 65696-09	Z 65696-10	Z 65696-11	Z 65696-12
210 mm – 8 1/4 "	Z 65697-01	Z 65697-02	Z 65697-03	Z 65697-04	Z 65697-05	Z 65697-06
230 mm – 9 "	Z 65697-07	Z 65697-08	Z 65697-09	Z 65697-10	Z 65697-11	Z 65697-12
	glatt smooth	fein gerieft slightly serrated	glatt smooth	fein gerieft slightly serrated	diamantiert diamond coated	diamantiert diamond coated
	lisse lisa liscia	légèrement strié lig. estriada fina zigrinata	lisse lisa liscia	légèrement strié lig. estriada fina zigrinata	diamanté diamantada diamantata	diamanté diamantada diamantata



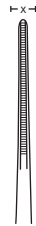
9 mm Ø	1.0 mm x 0.5 mm	1.0 mm x 0.5 mm	2.0 mm x 1.0 mm	2.0 mm x 1.0 mm
210 mm - 8 1/4"	Z 65731-01	Z 65731-02	Z 65731-03	Z 65731-04
230 mm - 9"	Z 65731-07	Z 65731-08	Z 65731-09	Z 65731-10
	glatt smooth	gerieft serrated	glatt smooth	gerieft serrated
	lisse liso liscia	strié estriada zigrinata	lisse liso liscia	strié estriada zigrinata



9 mm Ø	1.0 mm x 0.5 mm	2.0 mm x 1.0 mm
210 mm - 8 1/4"	Z 65731-05	Z 65731-06
230 mm - 9"	Z 65731-11	Z 65731-12





diamantiert
diamond coated
diamanté
diamantada
diamantata

Atraumatische Mikropinzetten
 Atraumatic micro forceps
 Micro pinces atraumatiques
 Micro pinces atraumaticas
 Micro pinze atraumatiche







	x = 1.2 mm	x = 2.0 mm	x = 1.2 mm	x = 2.0 mm
150 mm – 6"	Z 65690-01	Z 65690-02	Z 65690-03	Z 65690-04
180 mm – 7"	Z 65690-05	Z 65690-06	Z 65690-07	Z 65690-08
210 mm – 8¼"	Z 65690-09	Z 65690-10	Z 65690-11	Z 65690-12
230 mm – 9"	Z 65690-13	Z 65690-14	Z 65690-15	Z 65690-16
	gerade straight droit recta retta	gerade straight droit recta retta	abgewinkelt angled angulaire acodada angolata	abgewinkelt angled angulaire acodada angolata







Castroviejo	 1:1	 1:1	 1:1	 1:1
x = 11.0 mm x 0.75 mm				
140 mm - 5½"	Z 60810-14	Z 60811-14	Z 60812-14	Z 60813-14
ohne Sperre, feines Maul without ratchet, fine jaws sans crémaillère, mors fine sin cremallera, boca fina senza cremagliera, morso fino	gerade straight droit recta retto	gebogen curved courbe curva curvo	gerade, diamantiert straight, diamond coated droit, diamanté recta, diamantada retto, diamantato	gebogen, diamantiert curved, diamond coated courbe, diamanté curva, diamantada curvo, diamantato
x = 11.0 mm x 0.75 mm				
140 mm - 5½"	Z 60815-14	Z 60817-14	Z 60818-14	Z 60819-14
mit Sperre, feines Maul with ratchet, fine jaws avec crémaillère, mors fine con cremallera, boca fina con cremagliera, morso fino	gerade straight droit recta retto	gebogen curved courbe curva curvo	gerade, diamantiert straight, diamond coated droit, diamanté recta, diamantada retto, diamantato	gebogen, diamantiert curved, diamond coated courbe, diamanté curva, diamantada curvo, diamantato







Jacobson	 1:1	 1:1	 1:1	 1:1
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
180 mm – 7 "	Z 65740-01	Z 65740-02	Z 65740-13	Z 65740-14
ohne Sperre without ratchet	gerade straight	gebogen curved	gerade, diamantiert straight, diamond coated	gebogen, diamantiert curved, diamond coated
sans crémaillère sin cremallera senza cremagliera	droit recta retto	courbe curva curvo	droit, diamanté recta, diamantada retto, diamantato	courbe, diamanté curva, diamantada curvo, diamantato

	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
180 mm – 7 "	Z 65740-03	Z 65740-04	Z 65740-15	Z 65740-16
mit Sperre with ratchet	gerade straight	gebogen curved	gerade, diamantiert straight, diamond coated	gebogen, diamantiert curved, diamond coated
avec crémaillère con cremallera con cremagliera	droit recta retto	courbe curva curvo	droit, diamanté recta, diamantada retto, diamantato	courbe, diamanté curva, diamantada curvo, diamantato

	 1:1	 1:1	 1:1	 1:1
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
180 mm – 7 "	Z 65740-05 tucar	Z 65740-06 tucar	Z 65740-09 tucar	Z 65740-10 tucar
ohne Sperre without ratchet	gerade, glatt straight, smooth	gebogen, glatt curved, smooth	gerade, gerieft straight, serrated	gebogen, gerieft curved, serrated
sans crémaillère sin cremallera senza cremagliera	droit, lisse recta, liso retto, liscio	courbe, lisse curva, lisa curvo, liscio	droit, strié recta, estriada retto, zigrinato	courbe, strié curva, estriada curvo, zigrinato





180 mm – 7 "	Z 65740-07 tucar	Z 65740-08 tucar	Z 65740-11 tucar	Z 65740-12 tucar
1 mm				
mit Sperre with ratchet	gerade, glatt straight, smooth	gebogen, glatt curved, smooth	gerade, gerieft straight, serrated	gebogen, gerieft curved, serrated
avec crémaillère con cremallera con cremagliera	droit, lisse recta, liso retto, liscio	courbe, lisse curva, lisa curvo, liscio	droit, strié recta, estriada retto, zigrinato	courbe, strié curva, estriada curvo, zigrinato







Yasargil	 1:1	 1:1	 1:1	 1:1
180 mm - 7 "	Z 655 12-18	Z 655 13-18	Z 655 14-18	Z 655 15-18
200 mm - 8 "	Z 655 12-20	Z 655 13-20	Z 655 14-20	Z 655 15-20
ohne Sperre without ratchet	gerade straight	gebogen curved	gerade, diamantiert straight, diamond coated	gebogen, diamantiert curved, diamond coated
sans crémaillère sin cremallera senza cremagliera	droit recta retto	courbe curva curvo	droit, diamanté recta, diamantada retto, diamantato	courbe, diamanté curva, diamantada curvo, diamantato
180 mm - 7 "	Z 655 10-18	Z 655 11-18	Z 655 16-18	Z 655 17-18
200 mm - 8 "	Z 655 10-20	Z 655 11-20	Z 655 16-20	Z 655 17-20
mit Sperre with ratchet	gerade straight	gebogen curved	gerade, diamantiert straight, diamond coated	gebogen, diamantiert curved, diamond coated
avec crémaillère con cremallera con cremagliera	droit recta retto	courbe curva curvo	droit, diamanté recta, diamantada retto, diamantato	courbe, diamanté curva, diamantada curvo, diamantato

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	 1:1	 1:1	 1:1	 1:1
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
2 10 mm – 8¼"	Z 65623-01	Z 65623-02	Z 65623-13	Z 65623-14
ohne Sperre without ratchet	gerade straight	gebogen curved	gerade, diamantiert straight, diamond coated	gebogen, diamantiert curved, diamond coated
sans crémaillère	droit	courbe	droit, diamanté	courbe, diamanté
sin cremallera	recta	curva	recta, diamantado	curva, diamantado
senza cremagliera	retto	curvo	retto, diamantato	curvo, diamantato

	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
2 10 mm – 8¼"	Z 65623-03	Z 65623-04	Z 65623-15	Z 65623-16
mit Sperre with ratchet	gerade straight	gebogen curved	gerade, diamantiert straight, diamond coated	gebogen, diamantiert curved, diamond coated
avec crémaillère	droit	courbe	droit, diamanté	courbe, diamanté
con cremallera	recta	curva	recta, diamantada	curva, diamantada
con cremagliera	retto	curvo	retto, diamantato	curvo, diamantato

	 1:1	 1:1	 1:1	 1:1
	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
2 10 mm – 8¼"	Z 65623-05 tucar	Z 65623-06 tucar	Z 65623-09 tucar	Z 65623-10 tucar
ohne Sperre without ratchet	gerade, glatt straight, smooth	gebogen, glatt curved, smooth	gerade, gerieft straight, serrated	gebogen, gerieft curved, serrated
sans crémaillère	droit, lisse	courbe, lisse	droit, strié	courbe, strié
sin cremallera	recta, lisa	curva, lisa	recta, estriada	curva, estriada
senza cremagliera	retto, liscio	curvo, liscio	retto, zigrinato	curvo, zigrinato

	x = 1 mm	x = 1 mm	x = 1 mm	x = 1 mm
2 10 mm – 8¼"	Z 65623-07 tucar	Z 65623-08 tucar	Z 65623-11 tucar	Z 65623-12 tucar
mit Sperre with ratchet	gerade, glatt straight, smooth	gebogen, glatt curved, smooth	gerade, gerieft straight, serrated	gebogen, gerieft curved, serrated
avec crémaillère	droit, lisse	courbe, lisse	droit, strié	courbe, strié
con cremallera	recta, lisa	curva, lisa	recta, estriada	curva, estriada
con cremagliera	retto, liscio	curvo, liscio	retto, zigrinato	curvo, zigrinato



Auf Anfrage mit kräftigem Maul 1.5 mm – 2.0 mm lieferbar.
 On request also available with stronger jaw 1.5 mm – 2.0 mm.

Egalement disponible avec mors plus gros 1.5mm – 2.0 mm.
 También disponible con boca mas fuerte 1.5mm – 2.0 mm.

A richiesta fornibile anche con morso più forte di mm 1.5 a mm 2.0.



110 mm - 4 $\frac{1}{4}$ "	8 mm Ø	Z 65637-11	Z 65638-11
125 mm - 5"	7 mm Ø	Z 65654-12	Z 65655-12
130 mm - 5"	8 mm Ø	Z 65658-13	Z 65659-13
130 mm - 5"	10 mm Ø	Z 65652-13	Z 65653-13
150 mm - 6"	8 mm Ø	Z 65640-15	Z 65641-15
180 mm - 7"	8 mm Ø	Z 65664-18	Z 65665-18
180 mm - 7"	10 mm Ø	Z 65668-18	Z 65669-18

ohne Sperre
without ratchet
sans crémaillère
sin cremallera
senza cremagliera

gerade
straight
droit
recta
retto

gebogen
curved
courbe
curva
curvo

110 mm - 4 $\frac{1}{4}$ "	8 mm Ø	Z 65635-11	Z 65636-11
125 mm - 5"	7 mm Ø	Z 65656-12	Z 65657-12
130 mm - 5"	8 mm Ø	Z 65662-13	Z 65663-13
130 mm - 5"	10 mm Ø	Z 65645-13	Z 65646-13
150 mm - 6"	8 mm Ø	Z 65642-15	Z 65643-15
180 mm - 7"	8 mm Ø	Z 65666-18	Z 65667-18
180 mm - 7"	10 mm Ø	Z 65670-18	Z 65671-18





mit Sperre
with ratchet
avec crémaillère
con cremallera
con cremagliera

gerade
straight
droit
recta
retto

gebogen
curved
courbe
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



Barraquer		 1:1	 1:1	 1:1	 1:1
140 mm - 5½"	8 mm Ø	Z 65622-01	Z 65622-02	Z 65622-05	Z 65622-06
ohne Sperre, sehr feines Maul without ratchet, extra delicate jaws	gerade straight	gebogen curved	gerade, diamantiert straight, diamond coated	gebogen, diamantiert curved, diamond coated	
sans crémaillère, mors très fine sin cremallera, boca muy fina senza cremagliera, morso molto fino	droit recta retto	courbe curva curvo	droit, diamanté recta, diamantada retto, diamantato	courbe, diamanté curva, diamantada curvo, diamantato	
140 mm - 5½"	8 mm Ø	Z 65622-03	Z 65622-04	Z 65622-07	Z 65622-08
mit Sperre, sehr feines Maul with ratchet, extra delicate jaws	gerade straight	gebogen curved	gerade, diamantiert straight, diamond coated	gebogen, diamantiert curved, diamond coated	
avec crémaillère, mors très fine con cremallera, boca muy fina con cremagliera, morso molto fino	droit recta retto	courbe curva curvo	droit, diamanté recta, diamantada retto, diamantato	courbe, diamanté curva, diamantada curvo, diamantato	



150 mm - 6"	9 mm Ø	Z 65685-15
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ohne Sperre, gebogen
without ratchet, curved
sans crémaillère, courbe
sin cremallera, curvo
senza cremagliera, curvo

1:1

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.

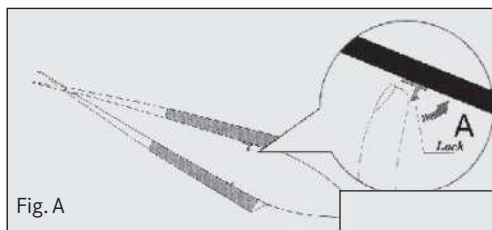


Fig. A

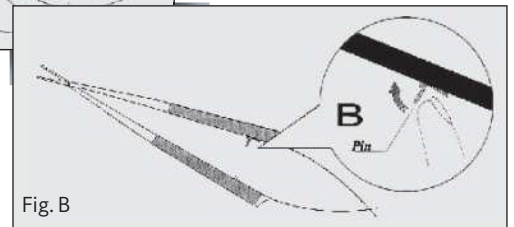
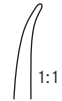
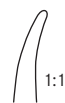


Fig. B



	0.3 mm x 0.4 mm	0.3 mm x 0.4 mm
180 mm - 7"	Z 65685-07	Z 65685-08

Titan, mit Sperre
Titanium, with ratchet
Titane, avec crémaillère
Titano, con cremallera
Titanio, con cremagliera

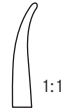


	0.8 mm x 0.8 mm	0.8 mm x 0.8 mm
185 mm - 7 1/4"	Z 65685-09	Z 65685-10

Titan, mit Sperre
Titanium, with ratchet
Titane, avec crémaillère
Titano, con cremallera
Titanio, con cremagliera

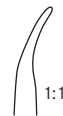
1:1

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



	0.5 mm x 0.8 mm	0.5 mm x 0.8 mm
200 mm - 8"	Z 65685-11	Z 65685-12

Titan, mit Sperre
 Titanium, with ratchet
 Titane, avec crémaillère
 Titano, con cremallera
 Titanio, con cremagliera



	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"	Z 65685-13	Z 65685-14	Z 65685-15	Z 65685-16

Titan, mit Sperre
 Titanium, with ratchet
 Titane, avec crémaillère
 Titano, con cremallera
 Titanio, con cremagliera



225 mm - 8 ³ / ₄ "	Z 65563-22	Z 65564-22
225 mm - 8 ³ / ₄ "	Z 65565-22	Z 65566-22

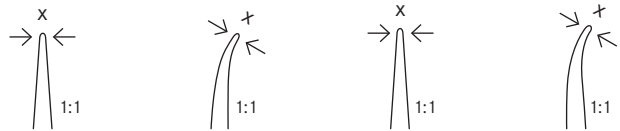
225 mm - 8 ³ / ₄ "	Z 65863-22 Titan	Z 65864-22 Titan
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ohne Sperre
without ratchet
sans crémaillère
sin cremallera
senza cremagliera

225 mm - 8 ³ / ₄ "	Z 65567-22	Z 65568-22
225 mm - 8 ³ / ₄ "	Z 65569-22	Z 65570-22

mit Sperre
with ratchet
avec crémaillère
con cremallera
con cremagliera

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"	Z 65700-01	Z 65700-02	Z 65700-03	Z 65700-04
225 mm - 8¾"	Z 65700-09	Z 65700-10	Z 65700-11	Z 65700-12
240 mm - 9½"	Z 65702-01	Z 65702-02	Z 65702-03	Z 65702-04
ohne Sperre without ratchet	gerade straight	gebogen curved	gerade straight	gebogen curved
sans crémaillère sin cremallera senza cremagliera	droit recta retto	courbe curva curvo	droit recta retto	courbe curva curvo

	x = 0.4 mm	x = 0.4 mm	x = 0.9 mm	x = 0.9 mm
200 mm - 8"	Z 65700-05	Z 65700-06	Z 65700-07	Z 65700-08
225 mm - 8¾"	Z 65700-13	Z 65700-14	Z 65700-15	Z 65700-16
240 mm - 9½"	Z 65702-05	Z 65702-06	Z 65702-07	Z 65702-08
ohne Sperre, diamantiert without ratchet, diamond coated	gerade straight	gebogen curved	gerade straight	gebogen curved
sans crémaillère, diamanté sin cremallera, diamantada senza cremagliera, diamantato	droit recta retto	courbe curva curvo	droit recta retto	courbe curva curvo



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 son también disponibles con cremallera.
 Questi port'aghi son fornibili anche con cremagliera.

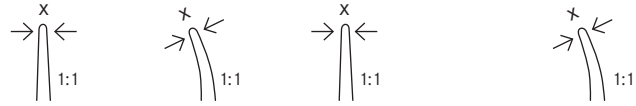


Jacobson	 1:1	 1:1	 1:1	 1:1
180 mm - 7 "	Z 65701-01	Z 65701-02	Z 65701-05	Z 65701-06
ohne Sperre without ratchet	gerade straight	gebogen curved	gerade, diamantiert straight, diamond coated	gebogen, diamantiert curved, diamond coated
sans crémaillère sin cremallera senza cremagliera	droit recta retto	courbe curva curvo	droit, diamanté recta, diamantada retto, diamantato	courbe, diamanté curva, diamantada curvo, diamantato
180 mm - 7 "	Z 65701-03	Z 65701-04	Z 65701-07	Z 65701-08
mit Sperre with ratchet	gerade straight	gebogen curved	gerade, diamantiert straight, diamond coated	gebogen, diamantiert curved, diamond coated
avec crémaillère con cremallera con cremagliera	droit recta retto	courbe curva curvo	droit, diamanté recta, diamantada retto, diamantato	courbe, diamanté curva, diamantadao curvo, diamantato



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 son también disponibles con cremallera.
Questi port'aghi son fornibili anche con cremagliera.



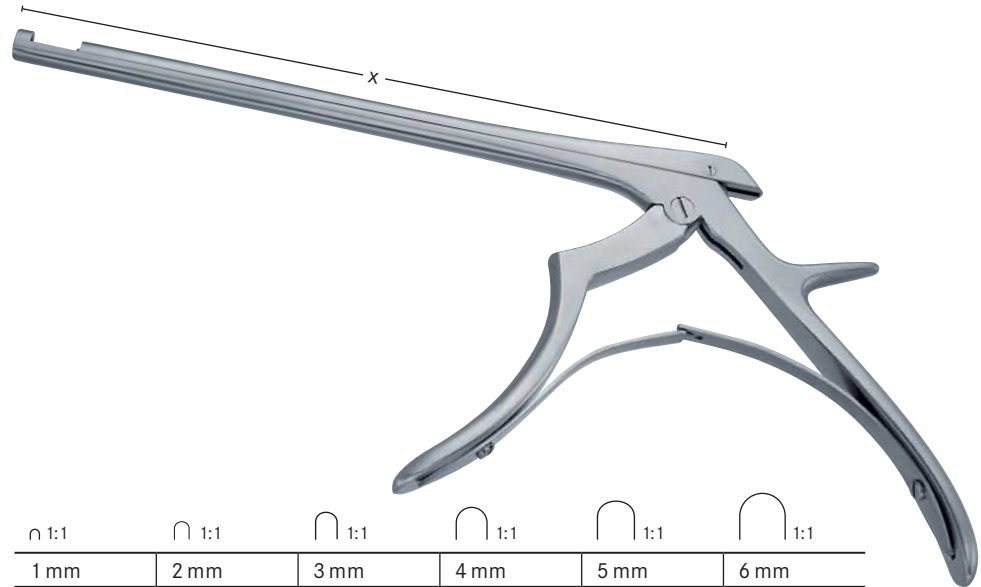
9 mm Ø	x = 1.0 mm	x = 1.0 mm	x = 1.0 mm	x = 1.0 mm
230 mm – 9 "	Z 65624-01	Z 65624-02	Z 65624-13	Z 65624-14
ohne Sperre without ratchet	gerade straight	gebogen curved	gerade, diamantiert straight, diamond coated	gebogen, diamantiert curved, diamond coated
sans crémaillère sin cremallera senza cremagliera	droit recta retto	courbe curva curvo	droit, diamanté recta, diamantada retto, diamantato	courbe, diamanté curva, diamantada curvo, diamantato

9 mm Ø	x = 1.0 mm	x = 1.0 mm	x = 1.0 mm	x = 1.0 mm
230 mm – 9 "	Z 65624-03	Z 65624-04	Z 65624-15	Z 65624-16
mit Sperre with ratchet	gerade straight	gebogen curved	gerade, diamantiert straight, diamond coated	gebogen, diamantiert curved, diamond coated
avec crémaillère con cremallera con cremagliera	droit recta retto	courbe curva curvo	droit, diamanté recta, diamantada retto, diamantato	courbe, diamanté curva, diamantada curvo, diamantato



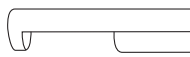
9 mm Ø				
230 mm – 9 "	Z 65624-05 tucar	Z 65624-06 tucar	Z 65624-09 tucar	Z 65624-10 tucar
ohne Sperre without ratchet	gerade, glatt straight, smooth	gebogen, glatt curved, smooth	gerade, gerieft straight, serrated	gebogen, gerieft curved, serrated
sans crémaillère sin cremallera senza cremagliera	droit, lisse recta, lisa retto, liscio	courbe, lisse curva, lisa curvo, liscio	droit, strié recta, estriada retto, zigrinato	courbe, strié curva, estriada curvo, zigrinato

9 mm Ø				
230 mm – 9 "	Z 65624-07 tucar	Z 65624-08 tucar	Z 65624-11 tucar	Z 65624-12 tucar
mit Sperre with ratchet	gerade, glatt straight, smooth	gebogen, glatt curved, smooth	gerade, gerieft straight, serrated	gebogen, gerieft curved, serrated
avec crémaillère con cremallera con cremagliera	droit, lisse recta, lisa retto, liscio	courbe, lisse curva, lisa curvo, liscio	droit, strié recta, estriada retto, zigrinato	courbe, strié curva, estriada curvo, zigrinato



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

Ferris- Smith-Kerrison



	x = 150mm - 6"	x = 180mm - 7"	x = 200mm - 8"	x = 230mm - 9"
1 mm	Z 69001-01	Z 69002-01	Z 69003-01	Z 69004-01
2 mm	Z 69001-02	Z 69002-02	Z 69003-02	Z 69004-02
3 mm	Z 69001-03	Z 69002-03	Z 69003-03	Z 69004-03
4 mm	Z 69001-04	Z 69002-04	Z 69003-04	Z 69004-04
5 mm	Z 69001-05	Z 69002-05	Z 69003-05	Z 69004-05
6 mm	Z 69001-06	Z 69002-06	Z 69003-06	Z 69004-06



1 mm	Z 69005-01	Z 69006-01	Z 69007-01	Z 69008-01
2 mm	Z 69005-02	Z 69006-02	Z 69007-02	Z 69008-02
3 mm	Z 69005-03	Z 69006-03	Z 69007-03	Z 69008-03
4 mm	Z 69005-04	Z 69006-04	Z 69007-04	Z 69008-04
5 mm	Z 69005-05	Z 69006-05	Z 69007-05	Z 69008-05
6 mm	Z 69005-06	Z 69006-06	Z 69007-06	Z 69008-06



1 mm	Z 69010-01	Z 69011-01	Z 69012-01	Z 69013-01
2 mm	Z 69010-02	Z 69011-02	Z 69012-02	Z 69013-02
3 mm	Z 69010-03	Z 69011-03	Z 69012-03	Z 69013-03
4 mm	Z 69010-04	Z 69011-04	Z 69012-04	Z 69013-04
5 mm	Z 69010-05	Z 69011-05	Z 69012-05	Z 69013-05
6 mm	Z 69010-06	Z 69011-06	Z 69012-06	Z 69013-06



1 mm		Z 69090-01		
2 mm		Z 69090-02		Z 69095-02
3 mm		Z 69090-03		Z 69095-03
4 mm		Z 69090-04		Z 69095-04
5 mm		Z 69090-05		Z 69095-05
6 mm		Z 69090-06		Z 69095-06

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

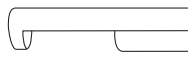
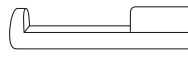
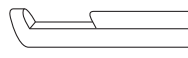
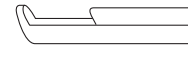


Dünne Fußplatte
 Thin footplate

Plaque de coupe étroite
 Lámina de punzonar estrecha
 Battente sottile

∅ 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	Z 69002-01Z		
2 mm	Z 69002-02Z		Z 69008-02Z
3 mm	Z 69002-03Z		Z 69008-03Z
4 mm	Z 69002-04Z		Z 69008-04Z
5 mm	Z 69002-05Z		Z 69008-05Z
6 mm	Z 69002-06Z		Z 69008-06Z
 1 mm	Z 69006-01Z		
2 mm	Z 69006-02Z		Z 69009-02Z
3 mm	Z 69006-03Z		Z 69009-03Z
4 mm	Z 69006-04Z		Z 69009-04Z
5 mm	Z 69006-05Z		Z 69009-05Z
6 mm	Z 69006-06Z		Z 69009-06Z
 1 mm	Z 69011-01Z		
2 mm	Z 69011-02Z	Z 69013-02Z	Z 69015-02Z
3 mm	Z 69011-03Z	Z 69013-03Z	Z 69015-03Z
4 mm	Z 69011-04Z	Z 69013-04Z	Z 69015-04Z
5 mm	Z 69011-05Z	Z 69013-05Z	Z 69015-05Z
6 mm	Z 69011-06Z	Z 69013-06Z	Z 69015-06Z
 1 mm	Z 69090-01Z		
2 mm	Z 69090-02Z		Z 69095-02Z
3 mm	Z 69090-03Z		Z 69095-03Z
4 mm	Z 69090-04Z		Z 69095-04Z
5 mm	Z 69090-05Z		Z 69095-05Z
6 mm	Z 69090-06Z		Z 69095-06Z

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 significa 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 hacía atrás.
Sfilare la slitta (parte superiore) tirandola indietro.

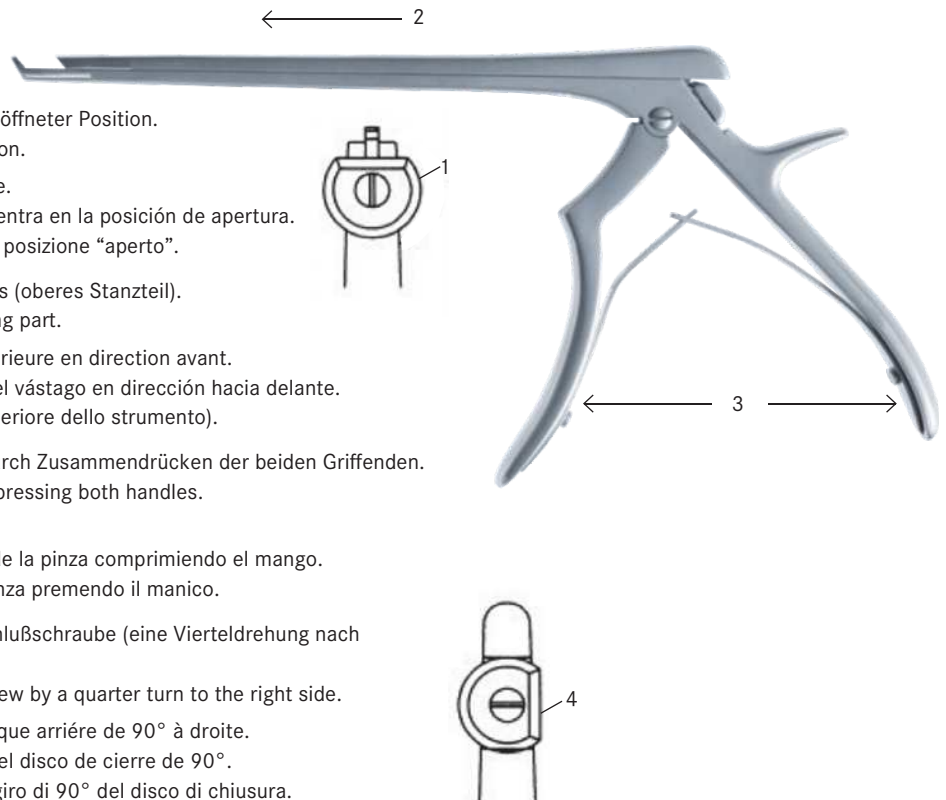


Zuordnung
Relation
Classement
Asignación
Aggiungere

- 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.

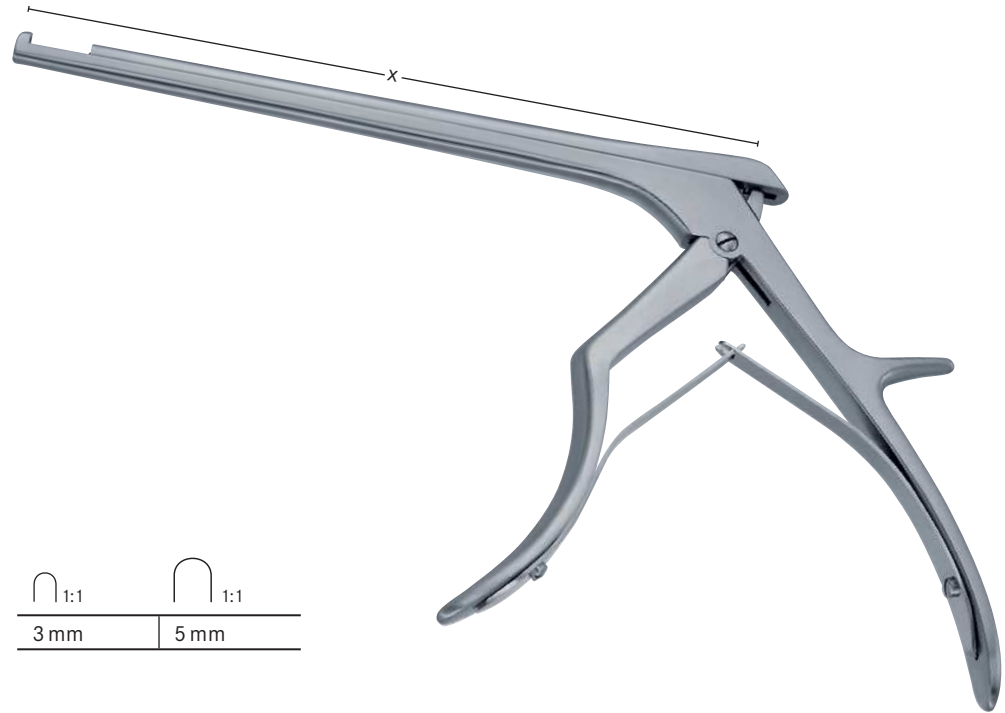
Montieren
Assembling
Montage
Montaje
Montaggio

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.
Inserir 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.
Chiedere il morso della pinza premendo il manico.
4. Verriegelung durch Verschlusschraube (eine Vierteldrehung nach rechts).
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°.
Chiedere la pinza con un giro di 90° del disco di chiusura.

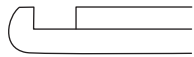
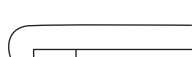
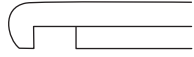
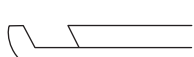
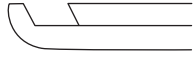



Einsatzbereit
Ready for use
Pince prêt pour l'utilisation
La pinza esta lista para su uso
Lo strumento è pronto



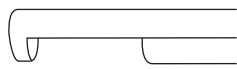
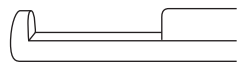


Colclough

	x = 150 mm - 6"	x = 200 mm - 8"
	Z 69016-03	Z 69017-03
	Z 69016-05	Z 69017-05
	Z 69018-03	Z 69019-03
	Z 69018-05	Z 69019-05
	Z 69022-03	Z 69023-03
	Z 69022-05	Z 69023-05


Laminectomiestanzen
 Laminectomy punches
 Pincas emporte-pièces à laminectomie
 Pinzas cortantes para laminectomía
 Pinze taglienti per laminectomia



Ferris-Smith-Kerrison		
		x = 180 mm - 7"
	5 mm	Z 69024-01
	5 mm	Z 69024-02



Cushing

	2 mm x 10 mm	2 mm x 10 mm	2 mm x 10 mm
1:1 x = 130 mm - 5"	Z 69030-13	Z 69031-13	Z 69033-13
x = 180 mm - 7"	Z 69030-18	Z 69031-18	Z 69033-18
x = 220 mm - 8 ³ / ₄ "	Z 69030-22	Z 69031-22	Z 69033-22

Love-Gruenwald

3 mm x 10 mm	3 mm x 10 mm	3 mm x 10 mm	
1:1 x = 130 mm - 5"	Z 69034-13	Z 69035-13	Z 69037-13
x = 180 mm - 7"	Z 69034-18	Z 69035-18	Z 69037-18
x = 220 mm - 8 ³ / ₄ "	Z 69034-22	Z 69035-22	Z 69037-22

Spurling

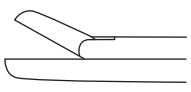
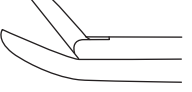
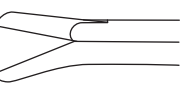




4 mm x 10 mm	4 mm x 10 mm	4 mm x 10 mm	
1:1 x = 130 mm - 5"	Z 69038-13	Z 69039-13	Z 69041-13
x = 180 mm - 7"	Z 69038-18	Z 69039-18	Z 69041-18
x = 220 mm - 8 ³ / ₄ "	Z 69038-22	Z 69039-22	Z 69041-22

Cloward

6 mm x 10 mm		
1:1 x = 180 mm - 7"	Z 69042-18	

Laminektomiezanzen
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 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	Z 69050-02	Z 69051-02	Z 69053-02
 1:1	3 mm x 10 mm	Z 69050-03	Z 69051-03	Z 69053-03
 1:1	4 mm x 10 mm	Z 69050-04	Z 69051-04	Z 69053-04
 1:1	6 mm x 10 mm	Z 69050-06		



Andere Längen und Ausführungen sind auf Anfrage lieferbar.

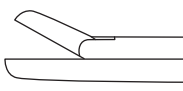
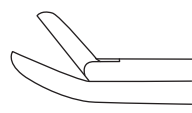
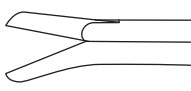
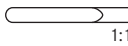
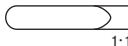


Other lengths and executions are available upon request.

Autres longueurs et exécutions sont disponibles sur demande.

Otras longitudes y ejecuciones son disponibles según demanda.

Altre lunghezze e modelli fornibili a richiesta.



Caspar				
		x = 155 mm - 6"	x = 155 mm - 6"	x = 155 mm - 6"
 1:1	2 mm	Z 69025-02	Z 69026-02	Z 69027-02
 1:1	3 mm	Z 69025-03	Z 69026-03	Z 69027-03
 1:1	4 mm	Z 69025-04	Z 69026-04	Z 69027-04
 1:1	5 mm	Z 69025-05		

Laminektomie­zangen
 Laminectomy rongeurs
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 Pinze taglianti per laminectomia



Oldenberg	○ 1:1	○ 1:1
x = 180 mm - 7"	3.5 mm Ø	6.0 mm Ø
170 mm - 6¾"	Z 69075-25	Z 69074-25

1:2



Schlesinger	
	3 mm x 10 mm
	x = 125 mm - 5"
190 mm - 7½"	Z 69070-19

gezahnt
 saw edge
 dentelé
 dentada
 dentata

1:2



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



Caspar

	x = 140 mm - 5½"	x = 160 mm - 6¼"	x = 185 mm - 7¼"
2 mm x 12 mm	Z 69080-02	Z 69081-02	Z 69082-02
3 mm x 12 mm	Z 69080-03	Z 69081-03	Z 69082-03
4 mm x 14 mm	Z 69080-04	Z 69081-04	Z 69082-04
5 mm x 14 mm		Z 69081-05	Z 69082-05
6 mm x 16 mm		Z 69081-06	Z 69082-06



	x = 140 mm - 5½"	x = 160 mm - 6¼"	x = 185 mm - 7¼"
3 mm x 12 mm	Z 69083-03	Z 69084-03	Z 69085-03
4 mm x 14 mm	Z 69083-04	Z 69084-04	Z 69085-04
5 mm x 14 mm		Z 69084-05	Z 69085-05



	x = 140 mm - 5½"	x = 160 mm - 6¼"	x = 185 mm - 7¼"
3 mm x 12 mm	Z 69086-03	Z 69087-03	Z 69088-03
4 mm x 14 mm	Z 69086-04	Z 69087-04	Z 69088-04

Laminectomiezen
 Laminectomy rongeurs
 Pincas 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
x = 120 mm - 4 ³ / ₄ "	Z 6155-01	Z 6155-02	Z 6155-03	Z 6155-04	Z 6155-05



x = 120 mm - 4 ³ / ₄ "	Z 6158-01	Z 6158-02	Z 6158-03	Z 6158-04	
x = 120 mm - 4 ³ / ₄ "	Z 6159-01	Z 6159-02	Z 6159-03		



	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"	Z 6160-01	Z 6160-02	Z 6160-03	Z 6160-04	Z 6160-05
x = 180 mm - 7"	Z 6161-01	Z 6161-02	Z 6161-03	Z 6161-04	

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