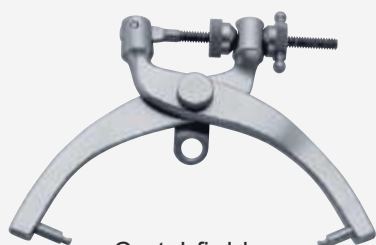




Micro – Neurosurgery
Mikro – Neurochirurgie
Micro – Neurocirugía
Micro – Neurochirurgie
Micro – Neurochirurgia



Crutchfield
13-700-00



13-701-00
3.5 mmØ



13-702-00
5.0 mmØ



Crutchfield
13-703-00



Cervical Tong
13-704-00

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

13-705-00

Spare pin
Ersatzdorn
Pivote de cambio
Goupille de rechange
Punta di ricambio



Wrench
13-706-00

Wrench, double-ended
Gabelschlüssel, doppelendig
Llave de tuercas
Clé de fixation,
Chiave



Drill Handle

13-707-27 27 cm - 10 3/4"



13-708-27

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



13-709-01

Fig.1
9 mm Ø



13-710-02

Fig.2
14 mm Ø



13-711-03

Fig.3
16 mm Ø



13-712-04

Fig.4
22 mmØ



Cushing
13-713-04

Fig.5
14 mm Ø



McKenzie
13-714-04

Fig.6
13 mmØ

Hudson

13-707-01	Complete set consisting:
13-707-27	Drill handle
	4 twist drills (Fig. 1 to Fig. 4)

Hudson

13-707-02	Complete set consisting:
13-707-27	Drill handle
	6 twist drills (Fig. 1 to Fig. 6)
	1 extension piece



De Martel
 13-717-33
 33 cm - 13"



Adson
 13-715-15 15 cm - 6"



De Vilbiss
 13-716-21 21 cm - 8 1/4"



Olivecrona
 13-718-30 30 cm - 12"
 13-718-40 40 cm - 16"
 13-718-50 50 cm - 20"
 13-718-60 60 cm - 23 1/2"
 13-718-70 70 cm - 27 1/2"

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

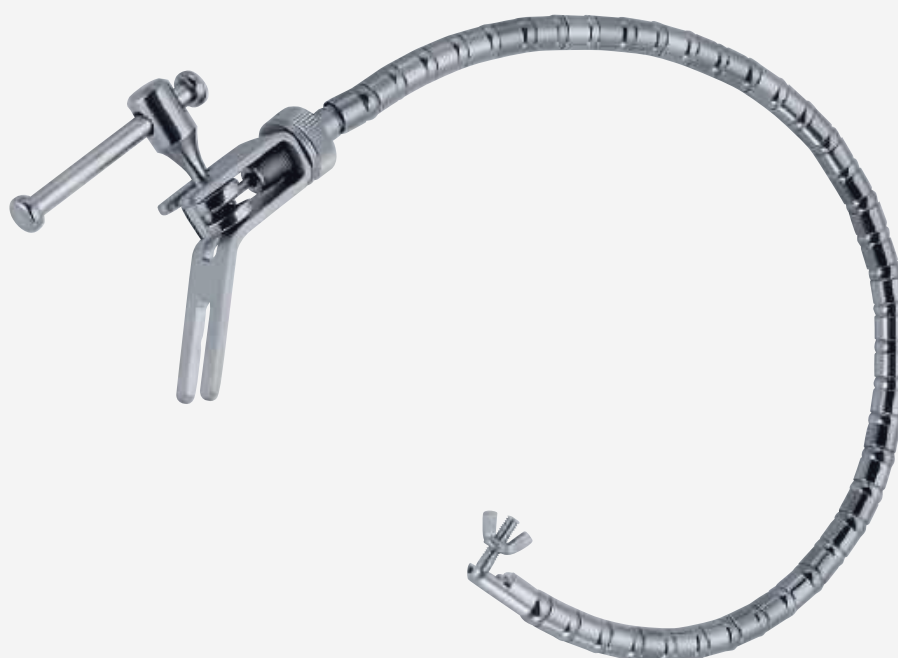


Gigli
 13-719-30 30 cm - 12"
 13-719-40 40 cm - 16"
 13-719-50 50 cm - 20"

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



Gigli
 13-720-00



Leyla

13-721-00

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

Selbsthaltender Hirnretraktor, flexibel mit 1 Spannarm, komplett, bestehend aus: Fixierungsvorrichtung für 1 Spannarm, Spannarm und Spatelhalter für flache Spatel
Separador cerebral autostatico, 1 brazo flexible con soporte, completo con brazo y soporte para spatulas llanas

Retracteur cérébrale autostatique, flexible avec 1 tendeur, complét avec support pour 1 tendeur, tendeur et porte-spatule pour spatules plates

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

Leyla

13-722-00

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

Selbsthaltender Hirnretraktor, flexibel mit 2 Spannarmen, komplett, bestehend aus: Fixierungsvorrichtung für 2 Spannarme, 2 Spannarme und 2 Spatelhalter für flache Spatel
Separador cerebral autostatico, 2 brazos flexibles con soporte, completo con brazos y soporte para 2 spatulas llanas

Retracteur cérébrale autostatique, flexible avec 2 tendeurs, complét avec supports pour 2 tendeurs, 2 tendeurs et 2 portes-spatule pour spatules plates

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



Leyla

13-723-00

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

13-724-00

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

13-725-00

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

13-726-00

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

13-727-00

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

Leyla

13-428-00

Brain Retractor, flexible, for one flat spatula complete, consisting of:

Fixation Base for one flexible arm

Flexible Arm

Support for flat brain spatulas



Leyla

13-429-00

Brain Retractor, flexible, for two flat spatulas complete, consisting of:

Fixation Base for two flexible arms

2 Flexible Arms

2 Support for flat brain spatulas



13-430-0

Flexible Arm

13-431-00

Spare Part

13-432-00

Wire Cable, only



Leyla
 Fig. 1
 13-433-00

Fixation Base for skull mounting,
 holding one flexible arm



Leyla
 Fig. 2
 13-434-00

Fixation Base for skull mounting,
 holding two flexible arms



Leyla
 Fig. 3
 13-435-00

Support, only, for flat brain spatulas,
 for fixation at the flexible arm



Leyla
 Fig. 4
 13-436-00

Support, only, for brain spatulas with round shaft
 up to 5.5 mm diam., for fixation at the flexible arm



Leyla
 Fig. 5
 13-437-00

Fixation Base for mounting on bars up to Ø 16 mm
 for one flexible arm



Leyla

Fig. 1

13-438-00

Self-Retaining Retractor for fixation to the operation table, complete, consisting of:

- Ball and Socket Joint
- Holding Arm
- Coupling Head
- 2 Flexible Arms
- 2 Supports for flat spatulas
- Brain Spatula
- Brain Spatula



Leyla

Fig. 2

13-439-00

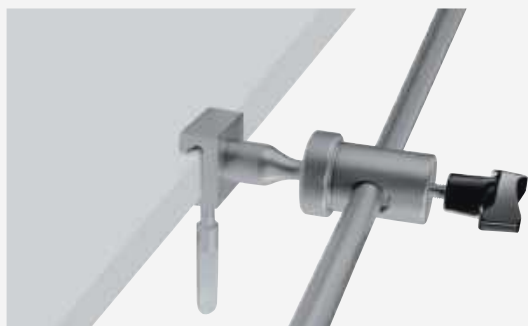
Self-Retaining Retractor for fixation to the operation table, without support, consisting of:

- Ball and Socket Joint
- Holding Arm
- Coupling Head, laterally open, to hold one flexible arm
- Flexible Arm



13-440-00

Holding Arm, detachable, for fixation in ball and socket joint for holding one of the coupling heads.



13-441-00

Ball and Socket Joint for fixation at the operating for holding arm table



13-442-00

Flexible Arm

13-443-00

Spare Part

13-444-00

Wire Cable, only



13-445-00

Coupling Head, laterally open, to hold one flexible arm



13-446-00

Coupling Head, rotatable, to hold one flexible arm



13-447-00

Coupling Head, to hold max. five flexible arms



Ammy

13-448-12	20 cm - 8"	12 mm
13-448-17	20 cm - 8"	17 mm
13-448-20	20 cm - 8"	20 mm
13-448-25	20 cm - 8"	25 mm
13-448-25	25 cm - 10"	25 mm

malleable



Heifetz

13-452-08	8 mm
13-452-11	11 mm
13-452-14	14 mm
13-452-17	17 mm

15.5 cm - 6"
malleable



Mod. Aachen

13-457-07	7+8 mm
13-457-10	10+11mm
13-457-13	13+14 mm
13-457-16	16+17 mm
13-457-19	19+20 mm
13-457-22	22+25 mm

20 cm - 8"
malleable



Davis

13-458-06	6 mm
13-458-10	10 mm
13-458-14	14 mm
13-458-16	16 mm
13-458-19	19 mm
13-458-25	25 mm
13-458-32	32 mm
13-458-38	38 mm

18 cm - 7"
malleable



Scoville

13-459-10	10+13 mm
13-459-16	16+17 mm

20 cm - 8"
malleable



Cushing

13-728-07	7 mm x 9 mm
13-728-11	11 mm x 13 mm
13-728-15	15 mm x 18 mm
13-728-18	18 mm x 22 mm

18 cm - 7"

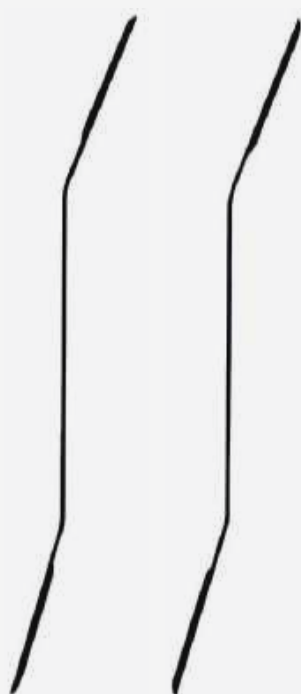


Olivecrona

13-729-07	13-730-07	7 mm x 9 mm
13-729-11	13-730-11	11 mm x 13 mm
13-729-15	13-730-15	15 mm x 18 mm
13-729-18	13-730-18	18 mm x 22 mm

18 cm - 7"

convex
konvex
convexa
convexe
convessa



18 cm - 7"

concave
konkav
cóncava
concave
concava



Heifetz

13-731-08	x = 8 mm
13-731-11	x = 11 mm
13-731-14	x = 14 mm
13-731-17	x = 17 mm
13-731-20	x = 20 mm

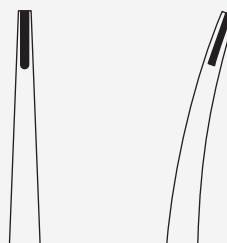
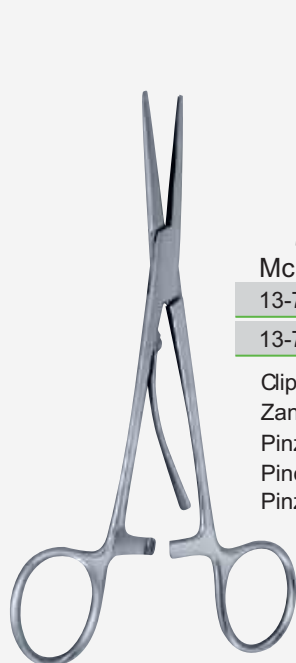
20 cm - 8"
malleable
biegsam
maleable
malléable
flessibile



Casper

13-227-04	x=4 mm
13-227-06	x=6 mm
13-227-08	x=8 mm
13-227-10	x=10 mm

247 cm - 9½"



McKenzie

13-732-15

13-733-15

15 cm - 6"

13-732-19

13-733-19

19 cm - 7 1/2"

Clip applying forceps

Zangen zum Anlegen der Klammern

Pinzas para poner grapas

Pinces pour poser des agrafes

Pinze per mettere leagrafes



McKenzie

13-734-14

14.8 cm x 4 cm x 6 mm - 5 3/4" x 1 1/2" x 1/2"

Brain clip-rack for 20 clips

Klammerblock für 20 Klammern

Porta-grapas para 20 grapas

Porte-agrafes pour 20 agrafes

Supporto port'agrafes per 20 agrafes



13-735-00

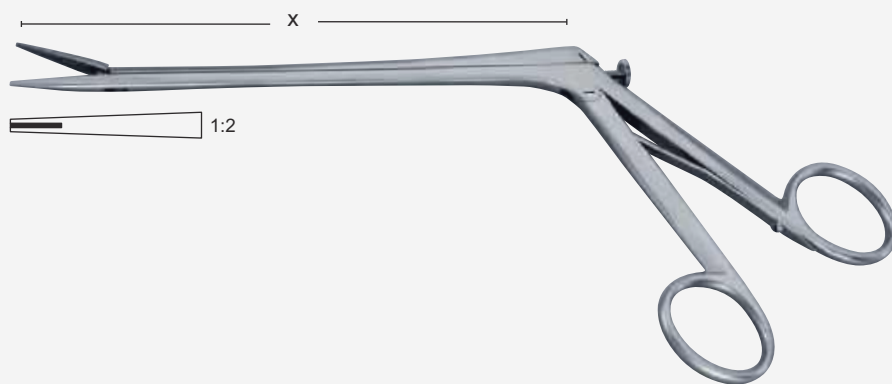
100 Brain clips in plastic box

100 Klammern im Plastikbehälter

100 grapas en tubo de plástico

100 agrafes dans un tube de plastique

100 agrafes nella scatola di plastica



Olivecrona-Toennis
 (Scoville)

13-736-14

x = 14 cm - 5 1/2"



Raney

13-737-15

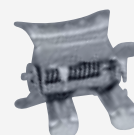
15 cm - 6"



Clip
 Fig. 1

13-738-15

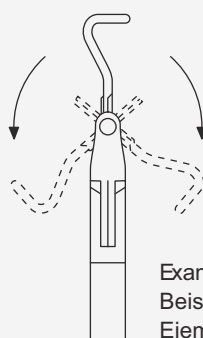
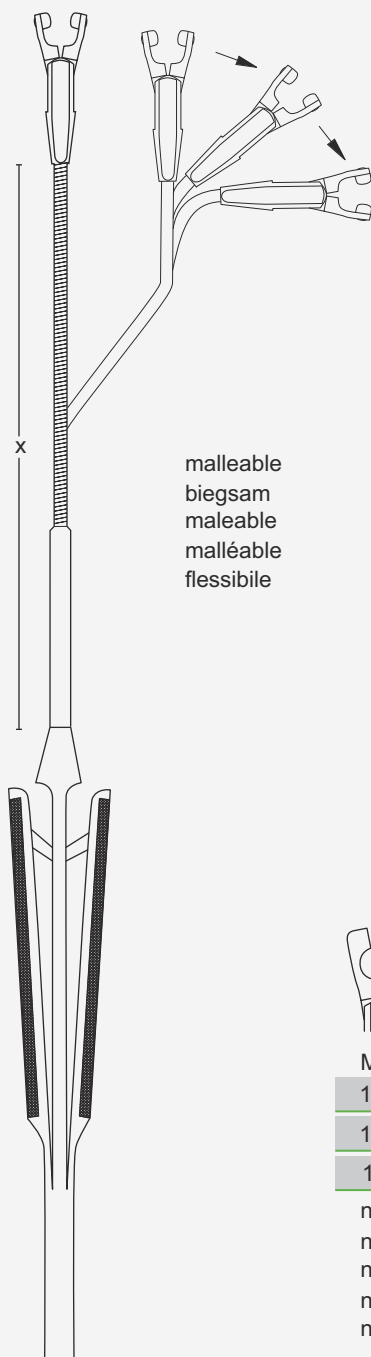
Scalp clip "Raney"
 Kopfhautklammer "Raney"
 Grapa para cuero cabelludo "Raney"
 Agrafes pour le cuir chevelu «Raney»
 Agraftes per il cuoio capelluto „Raney“



Clip
 Fig. 2

13-739-15

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



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



Mini

13-740-07

13-740-09

13-740-11

non rotating
nicht drehbar
non rotatorio
non rotatif
non rotativo

Standard

13-741-07

13-741-09

13-741-11



Mini

13-742-07

13-742-09

13-742-11

rotating
drehbar
rotatorio
rotatif
rotativo

Standard

13-743-07

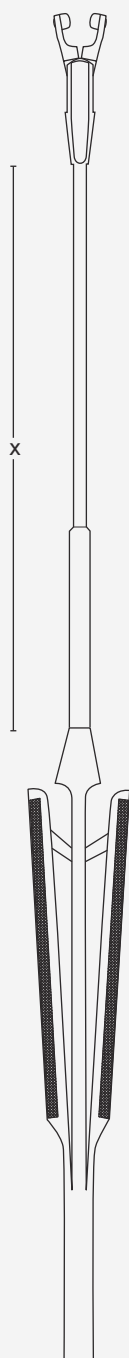
13-743-09

13-743-11

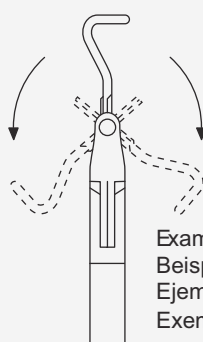
x = 7 cm - 2 3/4"

x = 9 cm - 3 1/2"

x = 11 cm - 4 1/4"



starr
 rigid
 rigide
 rigido
 rigido



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



Mini

13-744-07

13-744-09

13-744-11

non rotating
 nicht drehbar
 non rotatorio
 non rotatif
 non rotativo

Standard

13-745-07

13-745-09

13-745-11



Mini

13-746-07

13-746-09

13-746-11

rotating
 drehbar
 rotatorio
 rotatif
 rotativo

Standard

13-747-07

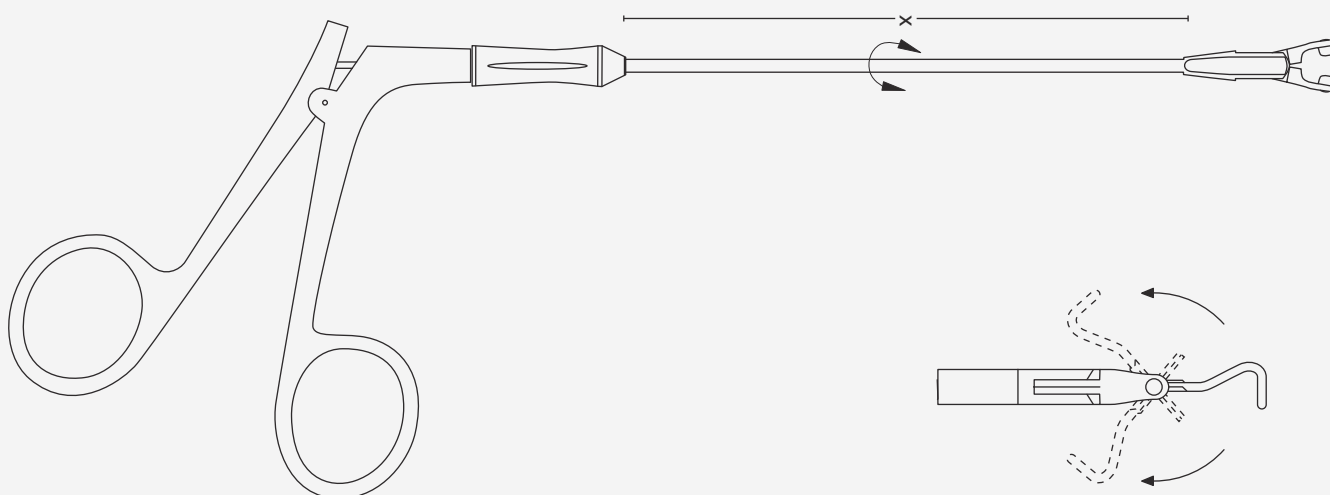
13-747-09

13-747-11

x = 7 cm - 2 3/4"

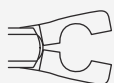
x = 9 cm - 3 1/2"

x = 11 cm - 4 1/4"



Shank rotatable
Schaft drehbar
Vaina giratoria
Tige rotative
Asta girevole

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



Mini	Standard
13-748-07	13-749-07
13-748-09	13-749-09
13-748-11	13-749-11
13-748-13	13-749-13

non rotating
nicht drehbar
non rotatorio
non rotatif
non rotativo



Mini	Standard	
13-750-07	13-751-07	x = 7 cm - 2 3/4"
13-750-09	13-751-09	x = 9 cm - 3 1/2"
13-750-11	13-751-11	x = 11 cm - 4 1/4"
13-750-13	13-751-13	x = 13 cm - 5"

rotating
drehbar
rotatorio
rotatif
rotativo



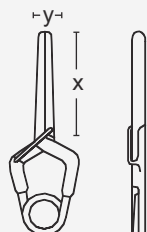
Mini	Standard
13-752-07	13-753-07
13-752-08	13-753-08
13-752-09	13-753-09
13-752-10	13-756-10

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



Mini	Standard	
13-754-07	13-755-07	1.7 cm - 6 3/4"
13-754-08	13-755-08	1.8 cm - 7"
13-754-09	13-755-09	2.1 cm - 8 1/4"
13-754-10	13-755-10	2.3 cm - 9"

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



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

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

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

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

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

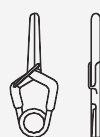
Para clips de titanio, por favor añadir und "T" a la referencia.

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

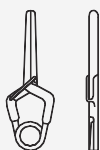
Per clips in titanio, per favore aggiuntete al numero d'articolo un "T".

Yasargil-Standard

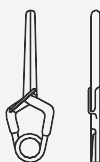
for permanent closure, in high quality implant steel, antimagnetic
für permanenten Verschluss, aus hochwertigem Implantatstahl, antimagnetisch
para oclusión permanente, acero de alta calidad, antimagnetico
pour fermeture permanente, acier de haute qualité, anti-magnétique
per chiusura permanente, acciaio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



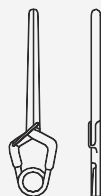
13-756-00
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y = 6.2 mm
gms = 150



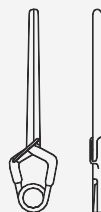
13-757-00
x = 9.0 mm
y = 7.0 mm
gms = 180



13-758-00
x = 11.0 mm
y = 7.8 mm
gms = 180



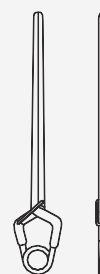
13-759-00
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y = 9.2 mm
gms = 200



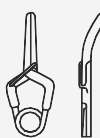
13-760-00
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y = 10.6 mm
gms = 200



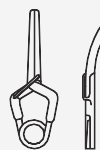
13-761-00
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y = 11.4 mm
gms = 200



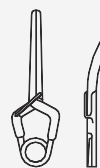
13-762-00
x = 25.0 mm
y = 13.3 mm
gms = 200



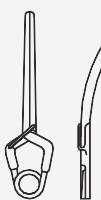
13-763-00
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y = 6.0 mm
gms = 150



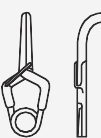
13-764-00
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gms = 180



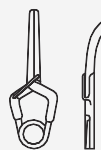
13-765-00
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y = 7.5 mm
gms = 180



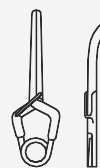
13-766-00
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y = 8.7 mm
gms = 200



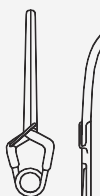
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gms = 150



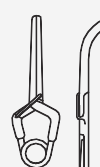
13-768-00
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y = 6.1 mm
gms = 180



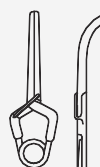
13-769-00
x = 11.0 mm
y = 6.5 mm
gms = 180



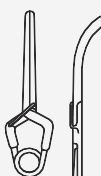
13-770-00
x = 15.0 mm
y = 7.4 mm
gms = 200



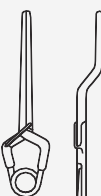
13-771-00
x = 7.0 mm
y = 5.4 mm
gms = 180



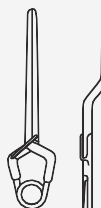
13-772-00
x = 9.0 mm
y = 5.8 mm
gms = 180



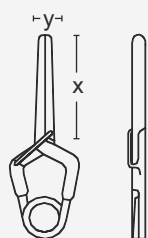
13-773-00
x = 11.0 mm
y = 6.2 mm
gms = 180



13-774-00
x = 7.0 mm
y = 7.9 mm
gms = 200



13-775-00
x = 9.0 mm
y = 8.7 mm
gms = 200



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

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

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

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

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

Per clips in titanio, per favore aggiungete al numero d'articolo un "T".

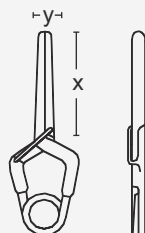
Yasargil-Standard

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

13-776-00	13-777-00	13-778-00	13-779-00	13-780-00	13-781-00	13-782-00
x = 12.0 mm	x = 17.0 mm	x = 20.0 mm	x = 5.0 mm	x = 7.0 mm	x = 9.0 mm	x = 11.0 mm
y = 10.2 mm	y = 11.9 mm	y = 13.0 mm	y = 6.2 mm	y = 6.5 mm	y = 7.8 mm	y = 8.4 mm
gms = 200	gms = 180	gms = 180	gms = 200	gms = 200	gms = 200	gms = 200

13-783-00	13-784-00	13-785-00	13-786-00	13-787-00	13-788-00
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

13-789-00	13-790-00	13-791-00	13-792-00	13-793-00
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



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

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

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

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

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

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

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

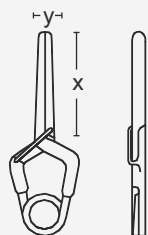
Per clips in titanio, per favore aggiuntete al numero d'articolo un "T".

Yasargil-Standard

for permanent closure, with window 3,5 mm, in high quality implant steel, antimagnetic
für permanenten Verschluss, mit Fenster 3,5 mm, aus hochwertigem Implantatstahl, antimagnetisch
para oclusión permanente, con finestra de 3,5 mm, acero de alta calidad, antimagnetico
pour fermeture permanente, avec fenestra 3,5 mm, acier de haute qualité, anti-magnétique
per chiusura permanente, con finestra di 3,5 mm, acciaio di alta qualita, antimagnetico

13-794-00	13-795-00	13-796-00	13-797-00	13-798-00	13-799-00
x = 7.0 mm	x = 9.0 mm	x = 12.0 mm	x = 5.0 mm	x = 7.0 mm	x = 11.0 mm
y = 7.4 mm	y = 8.4 mm	y = 9.6 mm	y = 5.8 mm	y = 6.5 mm	y = 7.2 mm
gms = 150	gms = 150	gms = 180	gms = 150	gms = 150	gms = 180

13-800-00	13-801-00	13-802-00
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



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

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

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

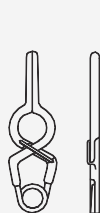
Para clips de titanio, por favor añadir und "T" a la referencia.

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

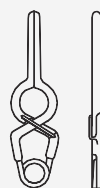
Per clips in titanio, per favore aggiuntete al numero d'articolo un "T".

Yasargil-Standard

for permanent closure, with window 3,5 mm, in high quality implant steel, antimagnetic
für permanenten Verschluss, mit Fenster 3,5 mm, aus hochwertigem Implantatstahl, antimagnetisch
para oclusión permanente, con finestra de 3,5 mm, acero de alta calidad, antimagnetico
pour fermeture permanente, avec fenestra 3,5 mm, acier de haute qualité, anti-magnétique
per chiusura permanente, con finestra di 3,5 mm, acciaio di alta qualita, antimagnetico



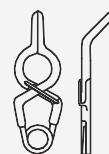
13-803-00
x = 7.0 mm
y = 7.9 mm
gms = 150



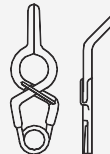
13-804-00
x = 9.0 mm
y = 9.1 mm
gms = 150



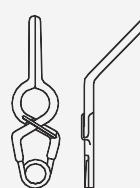
13-805-00
x = 12.0 mm
y = 10.3 mm
gms = 180



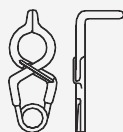
13-806-00
x = 5.0 mm
y = 6.5 mm
gms = 150



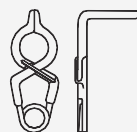
13-807-00
x = 7.0 mm
y = 7.2 mm
gms = 150



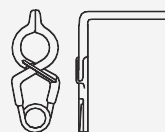
13-808-00
x = 11.0 mm
y = 7.8 mm
gms = 180



13-809-00
x = 5.0 mm
y = 5.5 mm
gms = 150



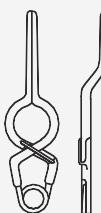
13-810-00
x = 7.0 mm
y = 5.5 mm
gms = 150



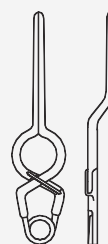
13-811-00
x = 11.0 mm
y = 5.5 mm
gms = 180



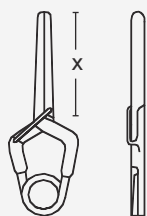
13-812-00
x = 5.0 mm
y = 7.9 mm
gms = 150



13-813-00
x = 7.0 mm
y = 8.8 mm
gms = 150



13-814-00
x = 11.0 mm
y = 10.0 mm
gms = 180



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

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

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

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

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

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

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

Per clips in titanio, per favore aggiungete al numero d'articolo un "T".

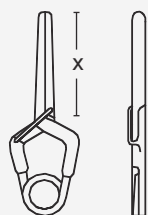
Yasargil-Standard

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

13-815-00	13-816-00	13-817-00	13-818-00	13-819-00	13-820-00
x = 5.0 mm	x = 7.0 mm	x = 10.0 mm	x = 5.0 mm	x = 7.0 mm	x = 10.0 mm
y = 5.8 mm	y = 5.8 mm	y = 5.8 mm	y = 5.8 mm	y = 5.8 mm	y = 5.8 mm
gms = 150	gms = 150	gms = 150	gms = 150	gms = 150	gms = 150

13-821-00	13-822-00	13-823-00	13-824-00	13-825-00	13-826-00	13-827-00
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

13-828-00	13-829-00	13-830-00	13-831-00
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



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

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

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

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

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

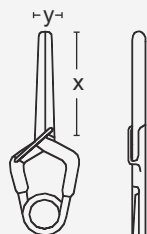
Per clips in titanio, per favore aggiungete al numero d'articolo un "T".

Yasargil-Standard

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

13-832-00	13-833-00	13-834-00	13-835-00	13-836-00	13-837-00	13-838-00
x = 9.0 mm	x = 9.0 mm	x = 9.0 mm	x = 15.0 mm	x = 15.0 mm	x = 15.0 mm	x = 9.0 mm
y = 7.0 mm	y = 6.8 mm	y = 6.1 mm	y = 9.2 mm	y = 8.7 mm	y = 7.4 mm	y = 6.2 mm
gms = 90	gms = 90	gms = 110	gms = 90	gms = 110	gms = 110	gms = 110

13-839-00	13-840-00	13-841-00	13-842-00
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



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

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

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

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

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

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

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

Per clips in titanio, per favore aggiuntete al numero d'articolo un "T".

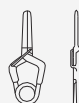
Yasargil-Mini

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



13-843-00

x = 3.0 mm
y = 3.3 mm
gms = 110



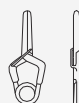
13-844-00

x = 5.0 mm
y = 4.0 mm
gms = 110



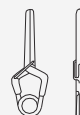
13-845-00

x = 3.0 mm
y = 3.3 mm
gms = 110



13-846-00

x = 5.0 mm
y = 4.0 mm
gms = 110



13-847-00

x = 7.0 mm
y = 4.6 mm
gms = 110



13-848-00

x = 3.0 mm
y = 3.2 mm
gms = 110



13-849-00

x = 4.0 mm
y = 3.8 mm
gms = 110



13-850-00

x = 4.0 mm
y = 3.6 mm
gms = 110



13-851-00

x = 5.0 mm
y = 3.8 mm
gms = 110



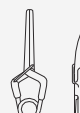
13-852-00

x = 4.0 mm
y = 3.6 mm
gms = 110



13-853-00

x = 5.0 mm
y = 4.0 mm
gms = 110



13-854-00

x = 7.0 mm
y = 4.4 mm
gms = 110



13-855-00

x = 4.0 mm
y = 3.6 mm
gms = 110



13-856-00

x = 4.0 mm
y = 3.5 mm
gms = 110



13-857-00

x = 5.0 mm
y = 4.0 mm
gms = 110



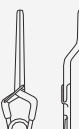
13-858-00

x = 5.0 mm
y = 3.5 mm
gms = 130



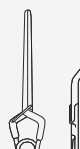
13-859-00

x = 6.0 mm
y = 6.0 mm
gms = 130



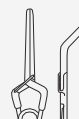
13-860-00

x = 4.0 mm
y = 7.0 mm
gms = 130



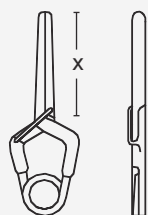
13-861-00

x = 7.0 mm
y = 5.7 mm
gms = 130 gms



13-862-00

x = 7.0 mm
y = 4.5 mm
gms = 130



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

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

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

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

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

Per clips in titanio, per favore aggiuntete al numero d'articolo un "T".

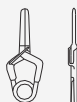
Yasargil-Mini

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



13-863-00

x = 3.0 mm
y = 3.3 mm
gms = 90



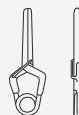
13-864-00

x = 5.0 mm
y = 4.0 mm
gms = 70



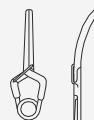
13-865-00

x = 4.0 mm
y = 3.8 mm
gms = 70



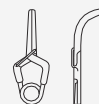
13-866-00

x = 7.0 mm
y = 4.6 mm
gms = 70



13-867-01

x = 7.0 mm
y = 4.4 mm
gms = 70



13-868-00

x = 5.0 mm
y = 4.0 mm
gms = 70



Scoville

13-869-23

23 cm - 9"
x = 8 mm



Holsher

13-870-24

24 cm - 9 1/2"
x = 7 mm



Scoville

13-871-20

20 cm - 8"
x = 7 mm



Martin

13-872-21

21 cm - 8 1/4"
x = 7 mm



Toennis

13-873-01

15 cm - 6"

13-874-02

19 cm - 7 1/2"



Halle

13-875-20

20 cm - 8"



Smithwick

13-876-17 17 cm - 6 3/4"

13-876-21 21 cm - 8 1/4"



Hoen

13-877-22

22 cm - 8 3/4"



Cushing

13-878-19

13-878-28

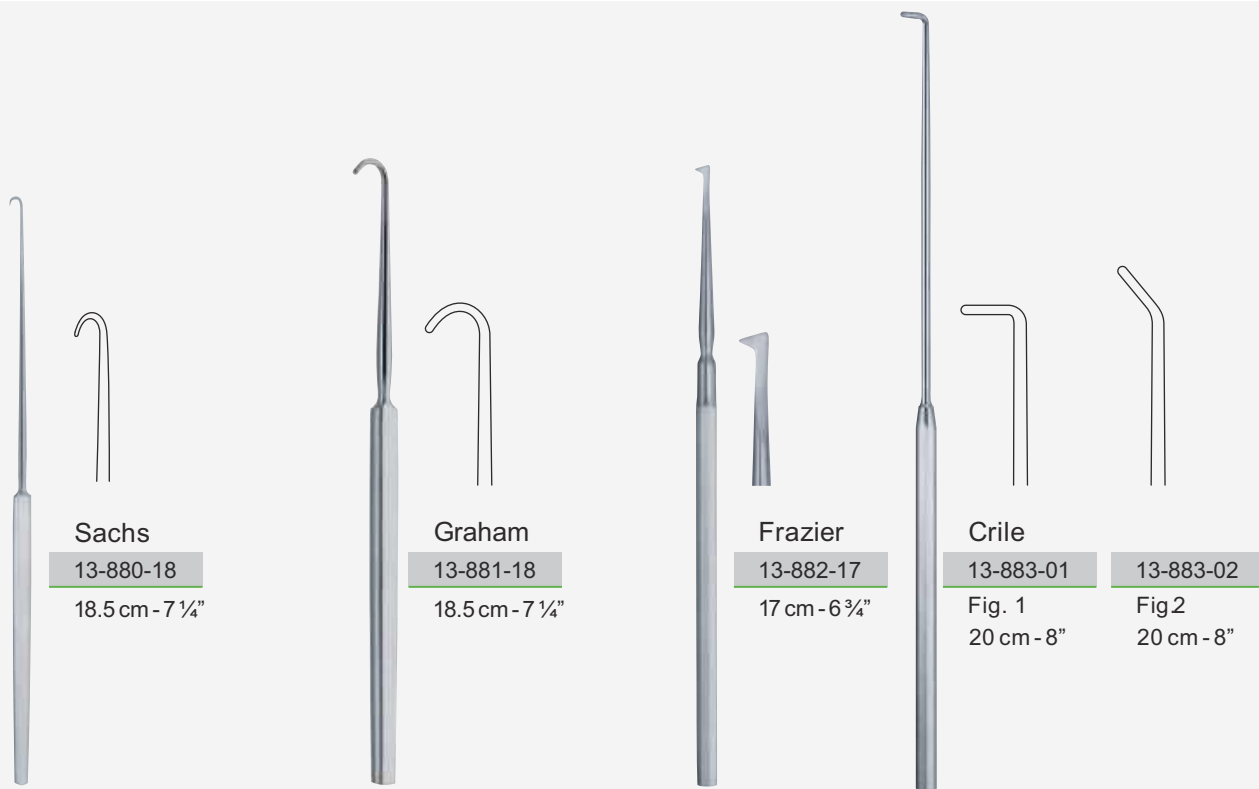


13-879-19

13-879-28

19 cm - 7 1/2"

28 cm - 11"



Nerve hooks – Dura hooks
 Nervenhooken – Durahaken
 Ganchos para nervios – Ganchos para duramadre
 Crochets à nerfs – Crochets pour duremère
 Ganci Nerve - ganci Dura



Love

13-891-19

Fig. 1



13-892-19

Fig. 2



13-893-19

Fig. 3

19 cm - 7 1/2"



Yasargil

13-894-31 31 cm - 12 1/4"

13-894-41 41 cm - 16 1/4"

Galea retractor
 Galeahaken
 Retractor de Galea
 Retracteur Galea
 Rettrotore di Galea



Cushing

13-895-14

14 cm - 5 1/2"



Frazier

13-896-13

13-896-18

sharp
 spitz
 agudo
 pointu
 acuto



13-897-13

13-897-18

blunt
 stumpf
 romos
 mousse
 smusso

13 cm - 5"

18 cm - 7"



Lahey

13-898-01

13 cm - 5"



Zöllner

90°

13-899-01

Roundknife, angledup
Rundschnittmesser, nach oben gebogen
Cuchillo redondo, angulado arriba
Coureau rond, coudé en haut
Coltello rotondo, angolato in alto



90°

13-900-00

Roundknife, angleddown
Rundschnittmesser, nach unten gebogen
Cuchillo redondo, angulado a bajo
Coureau rond, coudé en bas
Coltello rotondo, angolato in basso



13-901-00

Sickleknife, angledup
Sichelmesser, nach oben gebogen
Cuchillo de hoz, angulado arriba
Coureau faucille, courbe vers le haut
Coltello a forma di falce, angolato in alto



13-902-00

Sickleknife, angleddown
Sichelmesser, nach unten gebogen
Cuchillo de hoz, angulado a bajo
Coureau faucille, courbe vers le bas
Coltello a forma di falce, curvato in basso



13-903-00

Lancetknife, curved to left
Lanzenmesser, links gebogen
Cuchillo lanceolado, angulado a la izquierda
Coureau lancéolaire, courbe à gauche
Coltelloancelato, curvato a sinistra



13-904-00

Lancetknife, curved to right
Lanzenmesser, rechts gebogen
Cuchillo lanceolado, angulado a la derecha
Coureau lancéolaire, courbe à droite
Coltelloancelato, curvato a destra



13-905-01

Raspatory, curved to left
Raspatorium, links gebogen
Raspatorio, angulado a la izquierda
Décolleur, courbe à gauche
Raspatorio, curvato a sinistra



13-906-01

Raspatory, curved to right
Raspatorium, rechts gebogen
Raspatorio, angulado a la derecha
Décolleur, courbe à droite
Raspatorio, curvato a destra



13-907-01

Wireguide
Führungsgabel
Tenedor guía
Fourchette d'introduction
Forchetta guida



Sachs

13-908-21



13-909-21



13-910-21 21 cm - 8 1/4"



Horsley

13-911-20

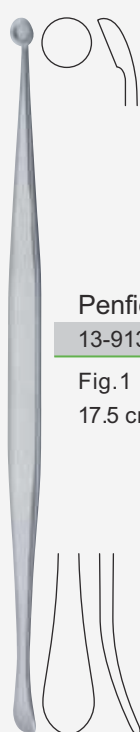
20 cm - 8"



Smithwick

13-912-29

29 cm - 11 1/2"

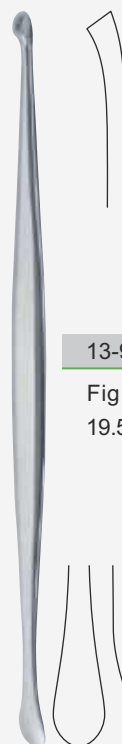


Penfield

13-913-17

Fig.1

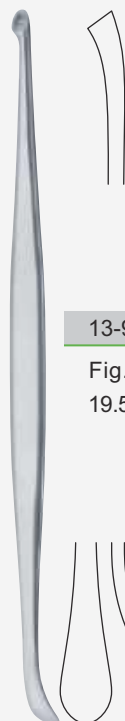
17.5 cm - 7"



13-914-19

Fig.2

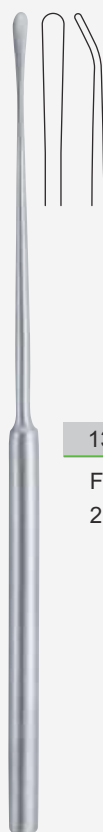
19.5 cm - 7 3/4"



13-915-19

Fig.3

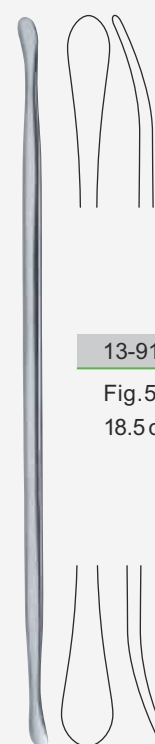
19.5 cm - 7 3/4"



13-916-21

Fig.4

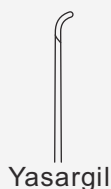
21.5 cm - 8 1/2"



13-917-18

Fig.5

18.5 cm - 7 1/4"



Yasargil

13-918-19

straight
gerade
recta
droit
rette



13-919-19



13-920-19



13-921-19



13-922-19

19 cm - 7 1/2"

13-923-19

bayonet
bajonett
bayoneta
baionette
baionetta

13-924-19

13-925-19

13-926-19

13-927-19

19 cm - 7 1/2"



Yasargil

13-928-19

straight
gerade
recta
droit
rette



13-929-19



13-930-19



13-931-19

19 cm - 7 1/2"

01-932-22

bayonet
bajonett
bayoneta
baionette
baionetta

01-933-22

01-934-22

01-935-22

19 cm - 7 1/2"



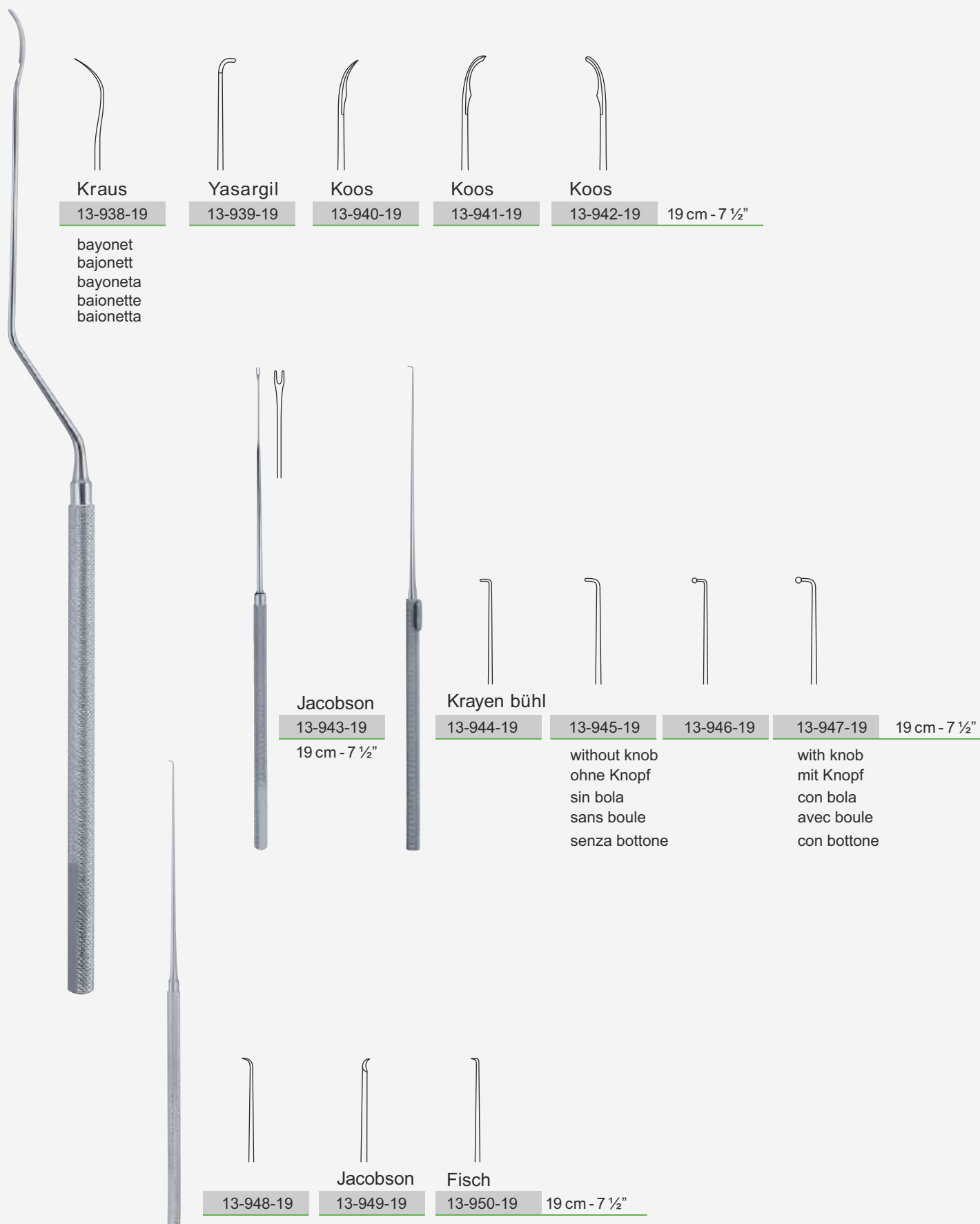
01-936-22



01-937-22

19 cm - 7 1/2"

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





Hardy

13-951-25

25 cm - 9 3/4"

13-952-25

25 cm - 9 3/4"

13-953-25

25 cm - 9 3/4"

13-954-25

25 cm - 9 3/4"

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



Hardy

13-955-27

4 mmØ

13-956-27

6 mmØ

27 cm - 10 3/4"

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



Vannas

13-957-08

13-958-08

8 cm - 3 1/4"

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



Welsh

13-959-12

13-960-12

12 cm - 4 3/4"

straight
gerade
recta
droite
retta

curved
gebogen
curva
courbe
curva

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



13-961-12

13-962-12

13-963-12

12 cm - 4 3/4"

straight
gerade
recta
droite
retta

curved
gebogen
curva
courbe
curva

angled up
aufgewinkelt
acodada
angulaire
angolata

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



13-964-12

12 cm - 4 3/4"

straight
gerade
recta
droite
retta

Vein-blade (Biemer)
Venen-Schneide (Biemer)
Hoja para venas (Biemer)
Lame pour vènes (Biemer)
Lama per vene (Biemer)



Welsh

13-965-15

13-965-18

straight, short blades
gerade, kurze Schneide
recta, hojas cortas
droites, lames courtes
retta, lama corta



13-966-15

13-966-18

curved, short blades
gebogen, kurze Schneide
curva, hojas cortas
courbes, lames courtes
curva, lama corta



13-967-15

13-967-18

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



13-968-15

15 cm - 6"

13-968-18

18 cm - 7"

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



13-969-15

13-969-18

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



13-970-15

13-970-18

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



13-971-15 15 cm - 6"

13-971-18 18 cm - 7"

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



Yasargil

13-972-18

straight
gerade
recta
droits
retta



13-973-18

curved
gebogen
curva
courbes
curva



13-974-18

18.5 cm - 7 1/4"

angled on flat
kniegebogen
acodada
angulaires
angolata





Welsh

13-975-12

straight
gerade
recta
droites
retta



13-976-12

12cm - 4 3/4"

curved
gebogen
curva
courbes
curva

Long blades 14 mm, smooth, sharp
Lange Schneide 14 mm, glatt, spitz
Hojas largas 14 mm, lisas, agudas
Lama lunga 14 mm, liscia, acuta
Lames longues 14 mm, lisses, pointues



13-977-12

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



13-978-12

12cm - 4 3/4"

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

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



13-979-14

straight
gerade
recta
droits
retta



13-980-14

14.5 cm - 5 3/4"

curved
gebogen
curva
courbes
curva

Vannas-blades, smooth, sharp
Vannas-Schneide, glatt, spitz
Hojas de Vannas, lisas, agudas
Lames de Vannas, lisses, pointues
Vannas-lama, liscia, acuta



Yasargil

13-981-17

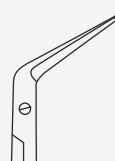
25°

with ball
mit Knopf
con botón
avec bouton
con bottone



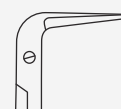
13-982-17

45°



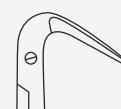
13-983-17

60°



13-984-17

90°



13-985-17

125°

17 cm - 6 3/4"



Yasargil

13-986-17

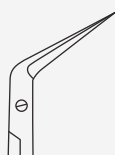
25°

without ball
mit ohne Knopf
sin bola botón
sans boule bouton
con senza bottone



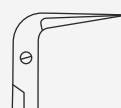
13-987-17

45°



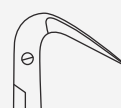
13-988-17

60°



13-989-17

90°



13-990-17

125°

17 cm - 6 3/4"



Irwan

13-991-14

13-991-18

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



13-992-14

13-992-18

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



13-993-14

13-993-18

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



13-994-14

13-994-18

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

14.5 cm 5 3/4"

18 cm - 7"

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



13-995-14

13-995-18

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



13-996-14

13-996-18

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



13-997-14

13-997-18

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



13-998-14

13-998-18

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

14.5 cm 5 3/4"

18 cm - 7"

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



Vannas

13-999-12

12 cm - 5"

7 mm Ø



13-100-12

12 cm - 5"

7 mm Ø



Vannas

13-101-15

15 cm - 6"

8 mm Ø



13-102-15

15 cm - 6"

8 mm Ø



Castroviejo

13-103-15

8 mm Ø



13-104-15

8 mm Ø

15 cm - 6"



Irwan

13-105-08

18 cm - 7"

sharp/sharp



13-106-08

18 cm - 7"

sharp/sharp



13-107-08

18 cm - 7"

sharp/blunt



13-108-08

18 cm - 7"

sharp/blunt



13-109-08

18 cm - 7"

blunt/blunt



13-110-08

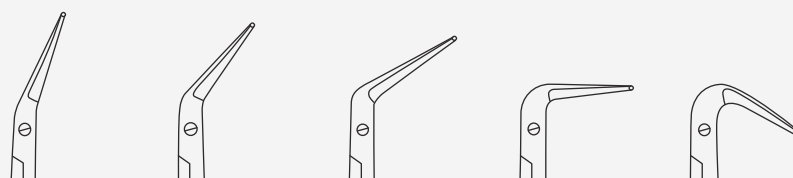
18 cm - 7"

blunt/blunt

8 mm Ø

10 mm Ø

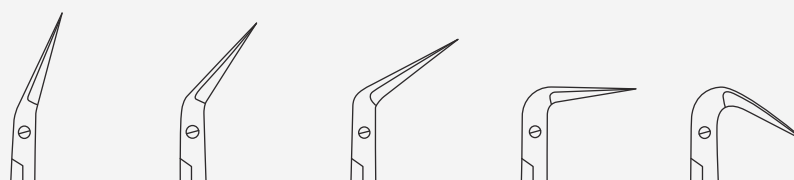
Micro scissors with round handle
 Mikroscheren mit Rundgriff
 Micro tijeras con mango redondo
 Micro ciseaux avec manche ronde
 Micro forbici con manico rotondo



Irwan Pro

13-111-17	13-112-17	13-113-17	13-114-17	13-115-17	17 cm - 6 3/4"
25°	45°	60°	90°	125°	8 mmØ

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



13-116-18	13-117-18	13-118-18	13-119-18	13-120-18	18 cm - 7"
25°	45°	60°	90°	125°	8 mmØ

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



Irwan Pro

13-121-18

25°

with ball
mit Knopf
con botón
avec bouton
con bottone

13-122-18

45°

13-123-18

60°

13-124-18

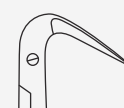
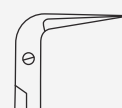
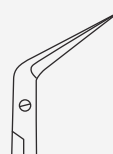
90°

13-125-18

125°

18 cm 7"

8 mmØ



13-126-18

25°

without ball
ohne Knopf
sin botón
sans bouton
senza bottone

13-127-18

45°

13-128-18

60°

13-129-18

90°

13-130-18

125°

18 cm 7"

8 mmØ



Dylex

13-131-15

9 mmØ

13-132-15

9 mmØ

15 cm - 6"



Jacobson

13-133-16

13-133-18

straight
gerade
recta
droits
retta



13-134-16

13-134-18

curved
gebogen
curva
courbes
curva



13-135-16

13-135-18

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

16 cm - 6 1/4"

18 cm - 7"



13-136-16

13-136-18

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



13-137-16

13-137-18

13-138-16

13-138-18

16 cm - 6 1/4"

18 cm - 7"



Yasargil-mod.

13-139-18

13-139-22



13-140-18

13-140-22

18 cm - 7"

22.5 cm - 8 3/4"



13-141-22



13-142-22

22.5 cm - 8 3/4"

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





Yasargil

13-143-20

13-143-22

straight
gerade
recta
droits
retta



13-144-20

13-144-22

curved
gebogen
curva
courbes
curva



13-145-20

13-145-22

straight, saw edge
gerade, gezahnt
recta, dentadas
droits, dentelées
retta, dentata



13-146-20

13-146-22

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

20 cm - 8"

22. cm - 8 3/4"

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



13-147-20

13-147-22



13-148-20

13-148-22

20 cm - 8"

22. cm - 8 3/4"

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



13-149-20

13-149-22



13-150-20

13-150-22

20 cm - 8"

22. cm - 8 3/4"

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



Pierse

13-156-12	12 cm - 4 3/4"
13-156-13	13.5 cm - 5 1/4"



Sholm

13-157-11	x = 0.2 mm
	very fine
	sehr fein
	muy fino
	très fin
	molto fino



13-158-11	11 cm - 4 1/4"
	x = 0.3 mm



Lazar

13-159-15

15.5 cm - 6"
0.5 mm



13-160-15

15.5 cm - 6"
0.8 mm



9 mm Ø

Lester

13-161-18



9 mm Ø

13-162-18



9 mm Ø

13-163-18

1x2



9 mm Ø

13-164-18

1x2

18 cm - 7"

Tying platform 6.0 mm x 0.4 mm, smooth

Fadenplatte 6,0 mm x 0,4 mm, glatt

Plataforma 6.0 mm x 0.4 mm, lisa

Plate-forme 6.0 mm x 0.4 mm, lisse

Piano per sutura 6.0 mm x 0.4 mm, liscio

9 mm Ø

13-165-18

9 mm Ø

13-166-18

9 mm Ø

13-167-18

1x2

9 mm Ø

13-168-18

1x2

18 cm - 7"

Tying platform 6.0 mm x 0.4 mm, diamond coated

Fadenplatte 6,0 mm x 0,4 mm, diamantiert

Plataforma 6.0 mm x 0.4 mm, diamantada

Plate-forme 6.0 mm x 0.4 mm, diamanté

Piano per sutura 6.0 mm x 0.4 mm, diamantata



9 mm Ø

13-169-18



9 mm Ø

13-170-18



9 mm Ø

13-171-18

1x2



9 mm Ø

13-172-18

1x2

18 cm - 7"

Tying platform 6.0 mm x 0.8 mm, smooth

Fadenplatte 6,0 mm x 0,8 mm, glatt

Plataforma 6.0 mm x 0.8 mm, lisa

Plate-forme 6.0 mm x 0.8 mm, lisse

Piano per sutura 6.0 mm x 0.8 mm, liscio

9 mm Ø

13-173-18

9 mm Ø

13-174-18

9 mm Ø

13-175-18

1x2

9 mm Ø

13-176-18

1x2

18 cm - 7"

Tying platform 6.0 mm x 0.8 mm, diamond coated

Fadenplatte 6,0 mm x 0,8 mm, diamantiert

Plataforma 6.0 mm x 0.8 mm, diamantada

Plate-forme 6.0 mm x 0.8 mm, diamanté

Piano per sutura 6.0 mm x 0.8 mm, diamantata



Lester

13-177-15	13-178-15	13-179-15	13-180-15	15 cm - 6"
13-177-18	13-178-18	13-179-18	13-180-18	18 cm - 7"
13-177-21	13-178-21	13-179-21	13-180-21	21 cm - 8 1/4"
13-177-23	13-178-23	13-179-23	13-180-23	23 cm - 9"
0.3 mm	0.3 mm	0.7 mm	0.7 mm	8 mmØ

Jaw smooth
Maul glatt
Boca lisa
Mors lisse
Morso liscio



13-181-15	13-182-15	13-183-15	13-184-15	15 cm - 6"
13-181-18	13-182-18	13-183-18	13-184-18	18 cm - 7"
13-181-21	13-182-21	13-183-21	13-184-21	21 cm - 8 1/4"
13-181-23	13-182-23	13-183-23	13-184-23	23 cm - 9"
0.3 mm	0.3 mm	0.7 mm	0.7 mm	8 mmØ

Tying platform 6.0 mm x 0.3mm, smooth
Fadenplatte 6,0 mm x 0,3mm, glatt
Plataforma 6.0 mm x 0.3mm, lisa
Plate-forme 6.0 mm x 0.3mm, lisse
Piano per sutura 6.0 mm x 0.3mm, liscio



13-185-15	13-186-15	13-187-15	13-188-15	15 cm - 6"
13-185-18	13-186-18	13-187-18	13-188-18	18 cm - 7"
13-185-21	13-186-21	13-187-21	13-188-21	21 cm - 8 1/4"
13-185-23	13-186-23	13-187-23	13-188-23	23 cm - 9"
0.3 mm	0.3 mm	0.7 mm 1x2	0.7 mm 1x2	8 mmØ

Tying platform 6.0 mm x 0.7mm, smooth
Fadenplatte 6,0 mm x 0,7 mm, glatt
Plataforma 6.0 mm x 0.7mm, lisa
Plate-forme 6.0 mm x 0.7mm, lisse
Piano per sutura 6.0 mm x 0.7mm, liscio



Lester

13-189-15	13-190-15	13-191-15	13-192-15	15 cm - 6"
13-189-18	13-190-18	13-191-18	13-192-18	18 cm - 7"
13-189-21	13-190-21	13-191-21	13-192-21	21 cm - 8 1/4"
13-189-23	13-190-23	13-191-23	13-192-23	23 cm - 9"
0.3 mm	0.3 mm	0.7 mm	0.7 mm	8 mmØ
diamond coated				
diamantiert				
diamantada				
diamanté				
diamantata				



13-193-15	13-194-15	13-195-15	13-196-15	15 cm - 6"
13-193-18	13-194-18	13-195-18	13-196-18	18 cm - 7"
13-193-21	13-194-21	13-195-21	13-196-21	21 cm - 8 1/4"
13-193-23	13-194-23	13-195-23	13-196-23	23 cm - 9"
0.3 mm	0.3 mm	0.7 mm	0.7 mm	8 mmØ
		1x2	1x2	
Tying platform 6.0 mm x 0.3 mm, diamond coated				
Fadenplatte 6,0 mm x 0,3 mm, diamantiert				
Plataforma 6.0 mm x 0.3 mm, diamantada				
Plate-forme 6.0 mm x 0.3 mm, diamanté				
Piano per sutura 6.0 mm x 0.3 mm, diamantata				



13-197-15	13-198-15	13-199-15	13-200-15	15 cm - 6"
13-197-18	13-198-18	13-199-18	13-200-18	18 cm - 7"
13-197-21	13-198-21	13-199-21	13-200-21	21 cm - 8 1/4"
13-197-23	13-198-23	13-199-23	13-200-23	23 cm - 9"
0.3 mm	0.3 mm	0.7 mm	0.7 mm	8 mmØ
		1x2	1x2	
Tying platform 6.0 mm x 0.7 mm, diamond coated				
Fadenplatte 6,0 mm x 0,7 mm, diamantiert				
Plataforma 6.0 mm x 0.7 mm, diamantada				
Plate-forme 6.0 mm x 0.7 mm, diamanté				
Piano per sutura 6.0 mm x 0.7 mm, diamantata				



Jacobson

13-201-16

13-201-18

straight, sharp
gerade, spitz
recta, aguda
droit, pointue
retta, acuta

13-205-16

13-205-18

straight, sharp
gerade, spitz
recta, aguda
droit, pointue
retta, acuta

diamond coated
diamantiert
diamantada
diamanté
diamantata



13-202-16

13-202-18

straight, blunt
gerade, stumpf
recta, roma
droit, mousse
retta, smussa

13-206-16

13-206-18

straight, blunt
gerade, stumpf
recta, roma
droit, mousse
retta, smussa



13-203-16

13-203-18

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

13-207-16

13-207-18

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



13-204-16

16 cm - 6 1/4"

13-204-18

18 cm - 7"

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

13-208-16

16 cm - 6 1/4"

13-208-18

18 cm - 7"

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



Yasargil

13-209-22

13-209-22

22.5 cm - 8 3/4"

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



13-210-22

13-210-22

22.5 cm - 8 3/4"

plan toothed
flach gezahnt
dentada
dentelé
dentato



13-211-22

13-211-22

22.5 cm - 8 3/4"

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

3.0 mm

5.0 mm



Yasagil

13-212-20

13-212-22

straight, sharp
gerade, spitz
recta, aguda
droit, pointue
retta, acuta

diamond coated
diamantiert
diamantado
diamanté
diamantato



13-213-20

13-213-22

straight, blunt
gerade, stumpf
recta, roma
droit, mousse
retta, smussa

13-214-20

13-214-22

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

13-215-20

13-215-22

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

20 cm - 8"

22.5 cm - 8 3/4"

13-216-22

straight, sharp
gerade, spitz
recta, aguda
droit, pointue
retta, acuta

Titanium

13-217-22

straight, blunt
gerade, stumpf
recta, roma
droit, mousse
retta, smussa

22.5 cm - 8 3/4"

13-218-20

13-218-22

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

13-219-20

13-219-22

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

20 cm - 8"

22.5 cm - 8 3/4"

Micro-forceps with round handle
Mikropinzetten mit Rundgriff
Pinzas micro con mango redondo
Micro-pince avec manche ronde
Micro-pinza con manico rotondo



Wolf

9 mmØ

13-220-21

13-220-23

straight, sharp
gerade, spitz
recta, aguda
droit, pointue
retta, acuta



9 mmØ

13-221-21

13-221-23

straight, blunt
gerade, stumpf
recta, roma
droit, mousse
retta, smussa



9 mmØ

13-222-21

13-222-23

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



9 mmØ

13-223-21

21 cm - 8 1/4"

13-223-23

23 cm - 9"

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

9 mmØ

13-224-21

13-224-23

straight, sharp
gerade, spitz
recta, aguda
droit, pointue
retta, acuta

9 mmØ

13-225-21

13-225-23

straight, blunt
gerade, stumpf
recta, roma
droit, mousse
retta, smussa

9 mmØ

13-226-21

13-226-23

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

9 mmØ

13-227-21

21 cm - 8 1/4"

13-227-23

23 cm - 9"

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

diamond coated
diamantiert
diamantado
diamanté
diamantato



Herman

13-228-15

13-228-18

13-228-21

13-228-23

1.0 x 0.5 mm

smooth

glatt

lisa

lisse

liscia



13-229-15

13-229-18

13-229-21

13-229-23

1.0 x 0.5 mm

slightly serrated

fein gerieft

lig. estriada

légèrement strié

fina zigrinata



13-230-15

13-230-18

13-230-21

13-230-23

2.0 x 1.0 mm

smooth

glatt

lisa

lisse

liscia



13-231-15

13-231-18

13-231-21

13-231-23

2.0 x 1.0 mm

slightly serrated

fein gerieft

lig. estriada

légèrement strié

fina zigrinata



13-232-15

13-232-18

13-232-21

13-232-23

1.0 x 0.5 mm

diamond coated

diamantiert

diamantada

diamanté

diamantata



13-233-15

13-233-18

13-233-21

13-233-23

2.0 x 1.0 mm 9 mmØ

diamond coated

diamantiert

diamantada

diamanté

diamantata

15 cm - 6"

18 cm - 7"

21 cm - 8 1/4"

23 cm - 9"

13-234-15

13-234-18

13-234-21

13-234-23

1.0 x 0.5 mm

smooth

glatt

lisa

lisse

liscia

13-235-15

13-235-18

13-235-21

13-235-23

1.0 x 0.5 mm

slightly serrated

fein gerieft

lig. estriada

légèrement strié

fina zigrinata

13-236-15

13-236-18

13-236-21

13-236-23

2.0 x 1.0 mm

smooth

glatt

lisa

lisse

liscia

13-237-15

13-237-18

13-237-21

13-237-23

2.0 x 1.0 mm

slightly serrated

fein gerieft

lig. estriada

légèrement strié

fina zigrinata

13-238-15

13-238-18

13-238-21

13-238-23

1.0 x 0.5 mm

diamond coated

diamantiert

diamantada

diamanté

diamantata

13-239-15

13-239-18

13-239-21

13-239-23

2.0 x 1.0 mm 9 mmØ

diamond coated

diamantiert

diamantada

diamanté

diamantata

15 cm - 6"

18 cm - 7"

21 cm - 8 1/4"

23 cm - 9"

Titanium



Herman

13-240-21

13-240-23

1.0 mm x 0.5 mm

smooth

glatt

liso

lisse

liscia



13-241-21

13-241-23

1.0 mm x 0.5 mm

serrated

gerieft

estriada

strié

zigrinata



13-242-21

13-242-23

2.0 mm x 1.0 mm

smooth

glatt

liso

lisse

liscia



13-243-21

21 cm - 8 1/4"

13-243-23

23 cm - 9"

2.0 mm x 1.0 mm

9 mmØ

serrated

gerieft

estriada

strié

zigrinata



13-244-21

13-244-23

1.0 mm x 0.5 mm

diamond coated

diamantiert

diamantada

diamanté

diamantata



13-245-21

21 cm - 8 1/4"

13-245-23

23 cm - 9"

2.0 mm x 1.0 mm

9 mmØ



Stenberg

13-246-15
13-246-18
13-246-21
13-246-23

x = 1.2 mm
straight
gerade
recta
droit
retta



13-247-15
13-247-18
13-247-21
13-247-23

x = 2.0 mm
straight
gerade
recta
droit
retta

13-248-15
13-248-18
13-248-21
13-248-23

x = 1.2 mm
angled
abgewinkelt
acodada
angulaire
angolata

13-249-15	15 cm - 6"
13-249-18	18 cm - 7"
13-249-21	21 cm - 8 ¼"
13-249-23	23 cm - 9"

x = 2.0 mm
angled
abgewinkelt
acodada
angulaire
angolata



Castroviejo

13-250-14

13-251-14

13-252-14

13-253-14

14 cm - 5 1/2"

x = 11.0 mm x 0.75 mm

straight

curved

straight, diamond coated

curved, diamond coated

gerade

gebogen

gerade, diamantiert

gebogen, diamantiert

recta

curva

recta, diamantada

curva, diamantada

droit

courbe

droit, diamanté

courbe, diamanté

retto

curvo

retto, diamantato

curvo, diamantato

without ratchet, fine jaws

ohne Sperre, feines Maul

sin cremallera, boca fina

sans crémaillère, mors fine

senza cremagliera, morso fino

13-254-14

13-255-14

13-256-14

13-257-14

14 cm - 5 1/2"

x = 11.0 mm x 0.75 mm

straight

curved

straight, diamond coated

curved, diamond coated

gerade

gebogen

gerade, diamantiert

gebogen, diamantiert

recta

curva

recta, diamantada

curva, diamantada

droit

courbe

droit, diamanté

courbe, diamanté

retto

curvo

retto, diamantato

curvo, diamantato

with ratchet, fine jaws

mit Sperre, feines Maul

con cremallera, boca fina

avec crémaillère, mors fine

con cremagliera, morso fino



Jacobson

13-258-18

x = 1 mm

straight

gerade

recta

droit

retto

without ratchet

ohne Sperre

sin cremallera

sans crémaillère

senza cremagliera

13-259-18

x = 1 mm

curved

gebogen

curva

courbe

curvo

13-260-18

x = 1 mm

straight, diamond coated

gerade, diamantiert

recta, diamantada

droit, diamanté

retto, diamantato

13-261-18

x = 1 mm

curved, diamond coated

gebogen, diamantiert

curva, diamantada

courbe, diamanté

curvo, diamantato

18 cm - 7"

13-262-18

x = 1 mm

straight

gerade

recta

droit

retto

with ratchet

mit Sperre

con cremallera

avec crémaillère

con cremagliera

13-263-18

x = 1 mm

curved

gebogen

curva

courbe

curvo

13-264-18

x = 1 mm

straight, diamond coated

gerade, diamantiert

recta, diamantada

droit, diamanté

retto, diamantato

13-265-18

x = 1 mm

curved, diamond coated

gebogen, diamantiert

curva, diamantada

courbe, diamanté

curvo, diamantato

18 cm - 7"



13-266-18

x = 1 mm

straight, smooth

gerade, glatt

recta, liso

droit, lisse

retto, liscio

without ratchet

ohne Sperre

sin cremallera

sans crémaillère

senza cremagliera

13-267-18

x = 1 mm

curved, smooth

gebogen, glatt

curva, lisa

courbe, lisse

curvo, liscio

13-268-18

x = 1 mm

straight, serrated

gerade, gerieft

recta, estriada

droit, strié

retto, zigrinato

13-269-18

x = 1 mm

curved, serrated

gebogen, gerieft

curva, estriada

courbe, strié

curvo, zigrinato

1 mm

13-270-18

x = 1 mm

straight, smooth

gerade, glatt

recta, liso

droit, lisse

retto, liscio

with ratchet

mit Sperre

con cremallera

avec crémaillère

con cremagliera

13-271-18

x = 1 mm

curved, smooth

gebogen, glatt

curva, lisa

courbe, lisse

curvo, liscio

13-272-18

x = 1 mm

straight, serrated

gerade, gerieft

recta, estriada

droit, strié

retto, zigrinato

13-273-18

x = 1 mm

curved, serrated

gebogen, gerieft

curva, estriada

courbe, strié

curvo, zigrinato

1 mm





Yasargil

13-274-18

13-274-20

straight
gerade
recta
droit
retto



13-275-18

13-275-20

curved
gebogen
curva
courbe
curvo



13-276-18

13-276-20

straight, diamond coated
gerade, diamantiert
recta, diamantada
droit, diamanté
retto, diamantato



13-277-18

18 cm - 7"

13-277-20

20 cm - 8"

curved, diamond coated
gebogen, diamantiert
curva, diamantada
courbe, diamanté
curvo, diamantato

without ratchet
ohne Sperre
sin cremallera
sans crémaillère
senza cremagliera

13-278-18

13-278-20

straight
gerade
recta
droit
retto

13-279-18

13-279-20

curved
gebogen
curva
courbe
curvo

13-280-18

13-280-20

straight, diamond coated
gerade, diamantiert
recta, diamantada
droit, diamanté
retto, diamantato

13-281-18

18 cm - 7"

13-281-20

20 cm - 8"

curved, diamond coated
gebogen, diamantiert
curva, diamantada
courbe, diamanté
curvo, diamantato

with ratchet
mit Sperre
con cremallera
avec crémaillère
con cremagliera



Jacobson

13-282-21

x = 1 mm
straight
gerade
recta
droit
retto

13-283-21

x = 1 mm
curved
gebogen
curva
courbe
curvo

13-284-21

x = 1 mm
straight, diamond coated
gerade, diamantiert
recta, diamantada
droit, diamanté
retto, diamantato

13-285-21

x = 1 mm
curved, diamond coated
gebogen, diamantiert
curva, diamantada
courbe, diamanté
curvo, diamantato

21 cm - 8 1/4"

without ratchet
ohne Sperre
sin cremallera
sans crémaillère
senza cremagliera

13-286-21

x = 1 mm
straight
gerade
recta
droit
retto

13-287-21

x = 1 mm
curved
gebogen
curva
courbe
curvo

13-288-21

x = 1 mm
straight, diamond coated
gerade, diamantiert
recta, diamantada
droit, diamanté
retto, diamantato

13-289-21

x = 1 mm
curved, diamond coated
gebogen, diamantiert
curva, diamantada
courbe, diamanté
curvo, diamantato

21 cm - 8 1/4"

with ratchet
mit Sperre
con cremallera
avec crémaillère
con cremagliera



13-290-21

x = 1 mm
straight, smooth
gerade, glatt
recta, liso
droit, lisse
retto, liscio

13-291-21

x = 1 mm
curved, smooth
gebogen, glatt
curva, lisa
courbe, lisse
curvo, liscio

13-292-21

x = 1 mm
straight, serrated
gerade, gerieft
recta, estriada
droit, strié
retto, zigrinato

13-293-21

x = 1 mm
curved, serrated
gebogen, gerieft
curva, estriada
courbe, strié
curvo, zigrinato

21 cm - 8 1/4"

without ratchet
ohne Sperre
sin cremallera
sans crémaillère
senza cremagliera

13-295-21

x = 1 mm
straight, smooth
gerade, glatt
recta, liso
droit, lisse
retto, liscio

13-296-21

x = 1 mm
curved, smooth
gebogen, glatt
curva, lisa
courbe, lisse
curvo, liscio

13-297-21

x = 1 mm
straight, serrated
gerade, gerieft
recta, estriada
droit, strié
retto, zigrinato

13-298-21

x = 1 mm
curved, serrated
gebogen, gerieft
curva, estriada
courbe, strié
curvo, zigrinato

21 cm - 8 1/4"

with ratchet
mit Sperre
con cremallera
avec crémaillère
con cremagliera



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



Hubson

13-299-01	13-300-01	11 cm - 4 1/4"	8 mmØ
13-299-02	13-300-02	12.5 cm - 5"	7 mmØ
13-299-03	13-300-03	13 cm - 5"	8 mmØ
13-299-04	13-300-04	13 cm - 5"	10 mmØ
13-299-05	13-300-05	15 cm - 6"	8 mmØ
13-299-06	13-300-06	18 cm - 7"	8 mmØ
13-299-07	13-300-07	18 cm - 7"	10 mmØ

straight
gerade
recta
droit
retto



curved
gebogen
curva
courbe
curvo

without ratchet
ohne Sperre
sin cremallera
sans crémaillère
senza cremagliera

13-301-01	13-302-01	11 cm - 4 1/4"	8 mmØ
13-301-02	13-302-02	12.5 cm - 5"	7 mmØ
13-301-03	13-302-03	13 cm - 5"	8 mmØ
13-301-04	13-302-04	13 cm - 5"	10 mmØ
13-301-05	13-302-05	15 cm - 6"	8 mmØ
13-301-06	13-302-06	18 cm - 7"	8 mmØ
13-301-07	13-302-07	18 cm - 7"	10 mmØ

straight
gerade
recta
droit
retto

curved
gebogen
curva
courbe
curvo

with ratchet
mit Sperre
con cremallera
avec crémaillère
con cremagliera



Barraquer

13-303-14

straight
gerade
recta
droit
retto

13-304-14

curved
gebogen
curva
courbe
curvo

13-305-14

straight, diamond coated
gerade, diamantiert
recta, diamantada
droit, diamanté
retto, diamantato

13-306-14

curved, diamond coated
gebogen, diamantiert
curva, diamantada
courbe, diamanté
curvo, diamantato

14 cm - 5 1/2"

8 mm Ø

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

13-307-14

straight
gerade
recta
droit
retto

13-308-14

curved
gebogen
curva
courbe
curvo

13-309-14

straight, diamond coated
gerade, diamantiert
recta, diamantada
droit, diamanté
retto, diamantato

13-310-14

curved, diamond coated
gebogen, diamantiert
curva, diamantada
courbe, diamanté
curvo, diamantato

14 cm - 5 1/2"

8 mm Ø

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



Dylex Hegar

13-311-15

15 cm - 6"
9 mm Ø

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





Luke

13-312-18

18.5 cm - 7 1/4"
0.8 mm x 0.8 mm



13-313-18

18.5 cm - 7 1/4"
0.8 mm x 0.8 mm

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



Luke Modified

13-314-18

18 cm - 7"
0.3 mm x 0.4 mm



13-315-18

18 cm - 7"
0.3 mm x 0.4 mm

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



York

13-320-20

20 cm - 8"

0.5 mm x 0.8 mm

13-321-20

20 cm - 8"

0.5 mm x 0.8 mm

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



Zeff

13-316-20

0.4 x 0.6 mm

13-317-20

0.4 x 0.6 mm

13-318-20

0.6 x 0.6 mm

13-319-20

0.6 x 0.6 mm

20 cm - 8"

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



Carlson

13-322-01



13-323-01 22.5 cm - 8 3/4"

13-322-02

13-323-02 22.5 cm - 8 3/4"

without ratchet
ohne Sperre
sin cremallera
sans crémaillère
senza cremagliera

Titanium
Titan
Titano
Titane
Titanio

13-324-22

13-325-22 22.5 cm - 8 3/4"

with ratchet
mit Sperre
con cremallera
avec crémaillère
con cremagliera

Titanium
Titan
Titano
Titane
Titanio



Yasargil

13-326-20

13-326-22

13-326-24

x = 0.4 mm

straight
gerade
recta
droit
retto



13-327-20

13-327-22

13-327-24

x = 0.4 mm

curved
gebogen
curva
courbe
curvo



13-328-20

13-328-22

13-328-24

x = 0.9 mm

straight
gerade
recta
droit
retto



13-329-20

13-329-22

13-329-24

x = 0.9 mm

curved
gebogen
curva
courbe
curvo

20 cm - 8"

22.5 cm - 8 3/4"

24 cm - 9 1/2"

without ratchet
ohne Sperre
sin cremallera
sans crémaillère
senza cremagliera

13-330-20

13-330-22

13-330-24

x = 0.4 mm

straight
gerade
recta
droit
retto

13-331-20

13-331-22

13-331-24

x = 0.4 mm

curved
gebogen
curva
courbe
curvo

13-332-20

13-332-22

13-332-24

x = 0.9 mm

straight
gerade
recta
droit
retto

13-333-20

13-333-22

13-333-24

x = 0.9 mm

curved
gebogen
curva
courbe
curvo

20 cm - 8"

22.5 cm - 8 3/4"

24 cm - 9 1/2"

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



Jacobson

13-334-18

straight
gerade
recta
droit
retto



13-335-18

curved
gebogen
curva
courbe
curvo



13-336-18

straight, diamond coated
gerade, diamantiert
recta, diamantada
droit, diamanté
retto, diamantato



13-337-18

18 cm - 7"

curved, diamond coated
gebogen, diamantiert
curva, diamantada
courbe, diamanté
curvo, diamantato

without ratchet
ohne Sperre
sin cremallera
sans crémaillère
senza cremagliera

13-338-18

straight
gerade
recta
droit
retto

13-339-18

curved
gebogen
curva
courbe
curvo

13-340-18

straight, diamond coated
gerade, diamantiert
recta, diamantada
droit, diamanté
retto, diamantato

13-341-18

18 cm - 7"

curved, diamond coated
gebogen, diamantiert
curva, diamantada
courbe, diamanté
curvo, diamantato

with ratchet
mit Sperre
con cremallera
avec crémaillère
con cremagliera



Range

13-342-23	13-343-23	13-344-23	13-345-23	23 cm - 9"	9 mmØ
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x = 1.0 mm straight gerade recta droit retto	x = 1.0 mm curved gebogen curva courbe curvo	x = 1.0 mm straight, diamond coated gerade, diamantiert recta, diamantada droit, diamanté retto, diamantato	x = 1.0 mm curved, diamond coated gebogen, diamantiert curva, diamantada courbe, diamanté curvo, diamantato		
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without ratchet
ohne Sperre
sin cremallera
sans crémaillère
senza cremagliera

13-346-23	13-347-23	13-348-23	13-349-23	23 cm - 9"	9 mmØ
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x = 1.0 mm straight gerade recta droit retto	x = 1.0 mm curved gebogen curva courbe curvo	x = 1.0 mm straight, diamond coated gerade, diamantiert recta, diamantada droit, diamanté retto, diamantato	x = 1.0 mm curved, diamond coated gebogen, diamantiert curva, diamantada courbe, diamanté curvo, diamantato		
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with ratchet
mit Sperre
con cremallera
avec crémaillère
con cremagliera



13-350-23	13-351-23	13-352-23	13-353-23	23 cm - 9"	9 mmØ
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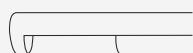
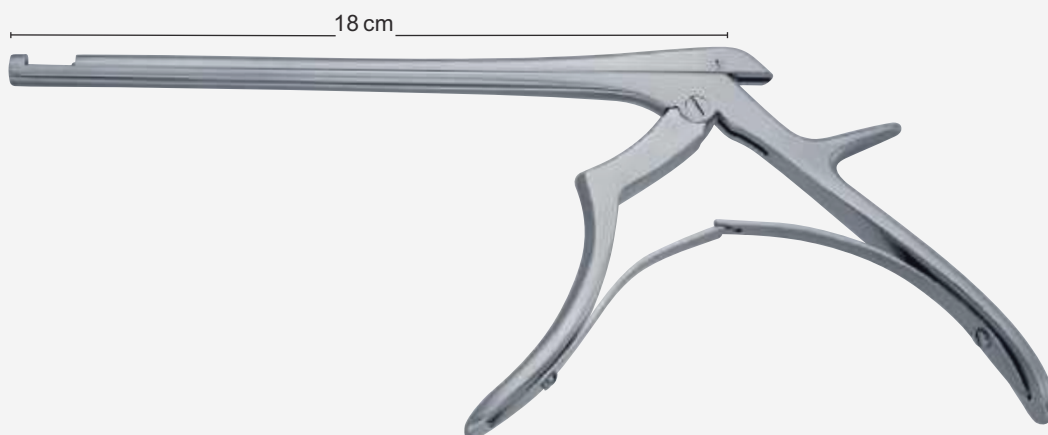
straight, smooth gerade, glatt recta, liso droit, lisse retto, liscio	curved, smooth gebogen, glatt curva, lisa courbe, lisse curvo, liscio	straight, serrated gerade, gerieft recta, estriada droit, strié retto, zigrinato	curved, serrated gebogen, gerieft curva, estriada courbe, strié curvo, zigrinato		
---	---	--	--	--	--

without ratchet
ohne Sperre
sin cremallera
sans crémaillère
senza cremagliera

13-354-23	13-355-23	13-356-23	13-357-23	23 cm - 9"	9 mmØ
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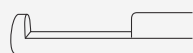
straight, smooth gerade, glatt recta, liso droit, lisse retto, liscio	curved, smooth gebogen, glatt curva, lisa courbe, lisse curvo, liscio	straight, serrated gerade, gerieft recta, estriada droit, strié retto, zigrinato	curved, serrated gebogen, gerieft curva, estriada courbe, strié curvo, zigrinato		
---	---	--	--	--	--

with ratchet
mit Sperre
con cremallera
avec crémaillère
con cremagliera



Ferris- Smith-Kerrison

13-358-01	13-359-01	13-360-01	13-361-01	1 mm
13-358-02	13-359-02	13-360-02	13-361-02	2 mm
13-358-03	13-359-03	13-360-03	13-361-03	3 mm
13-358-04	13-359-04	13-360-04	13-361-04	4 mm
13-358-05	13-359-05	13-360-05	13-361-05	5 mm
13-358-06	13-359-06	13-360-06	13-361-06	6 mm



13-362-07	13-363-07	13-364-07	13-365-07	1 mm
13-362-08	13-363-08	13-364-08	13-365-08	2 mm
13-362-09	13-363-09	13-364-09	13-365-09	3 mm
13-362-10	13-363-10	13-364-10	13-365-10	4 mm
13-362-11	13-363-11	13-364-11	13-365-11	5 mm
13-362-12	13-363-12	13-364-12	13-365-12	6 mm



13-366-13	13-367-13	13-368-13	13-369-13	1 mm
13-366-14	13-367-14	13-368-14	13-369-14	2 mm
13-366-15	13-367-15	13-368-15	13-369-15	3 mm
13-366-16	13-367-16	13-368-16	13-369-16	4 mm
13-366-17	13-367-17	13-368-17	13-369-17	5 mm
13-366-18	13-367-18	13-368-18	13-369-19	6 mm



20 cm Thin footplate

13-369-20	13-370-19	13-371-11	13-371-01	1 mm
13-369-21	13-370-20	13-371-22	13-371-02	2 mm
13-369-22	13-370-21	13-371-33	13-371-03	3 mm
13-369-23	13-370-22	13-371-44	13-371-04	4 mm
13-369-24	13-370-23	13-371-55	13-371-05	5 mm
13-369-25	13-370-24	13-371-66	13-371-06	6 mm

x = 15 cm - 6"

x = 18 cm - 7"

x = 20 cm - 8"

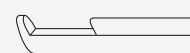
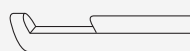
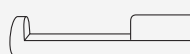
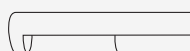
x = 23 cm - 9"

i add "B" with catalogue part number if required in black TiN coating
 add "E" with catalogue part number if required with ejector



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

Ferris- Smith-Kerrison (Detachable)



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

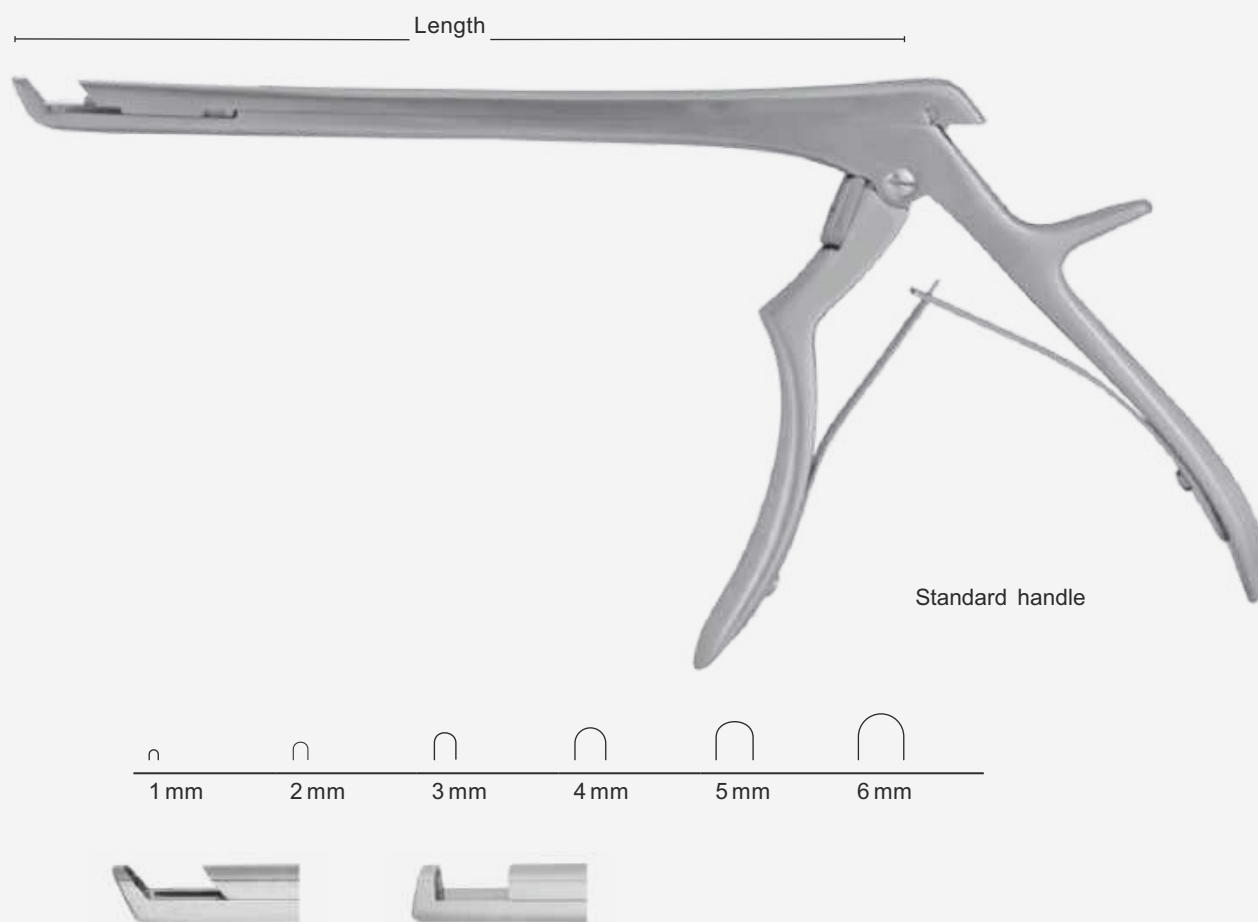
13-372-01	13-372-07	13-373-01	1 mm
13-372-02	13-372-08	13-373-02	2 mm
13-372-03	13-372-09	13-373-03	3 mm
13-372-04	13-372-10	13-373-04	4 mm
13-372-05	13-372-11	13-373-05	5 mm
13-372-06	13-372-12	13-373-06	6 mm
13-374-01	13-374-07	13-375-01	1 mm
13-374-02	13-374-08	13-375-02	2 mm
13-374-03	13-374-09	13-375-03	3 mm
13-374-04	13-374-10	13-375-04	4 mm
13-374-05	13-374-11	13-375-05	5 mm
13-374-06	13-374-12	13-375-06	6 mm
13-376-01	13-376-13	13-377-01	1 mm
13-376-02	13-376-14	13-377-02	2 mm
13-376-03	13-376-15	13-377-03	3 mm
13-376-04	13-376-16	13-377-04	4 mm
13-376-05	13-376-17	13-377-05	5 mm
13-376-06	13-376-18	13-377-06	6 mm
13-376-07	13-376-19	13-377-11	1 mm
13-376-08	13-376-20	13-377-12	2 mm
13-376-09	13-376-21	13-377-07	3 mm
13-376-10	13-376-22	13-377-08	4 mm
13-376-11	13-376-23	13-377-09	5 mm
13-376-12	13-376-24	13-377-10	6 mm

x = 18 cm - 7"

x = 20 cm - 8"

x = 23 cm - 9"

add "B" with catalogue part number if required in black TiN coating
add "E" with catalogue part number if required with ejector



Ferris- Smith-Kerrison

Fig. 1

13-677-01
13-678-01
13-677-02
13-678-02
13-677-03
13-678-03
13-677-04
13-678-04
13-677-05
13-678-05
13-677-06
13-678-06

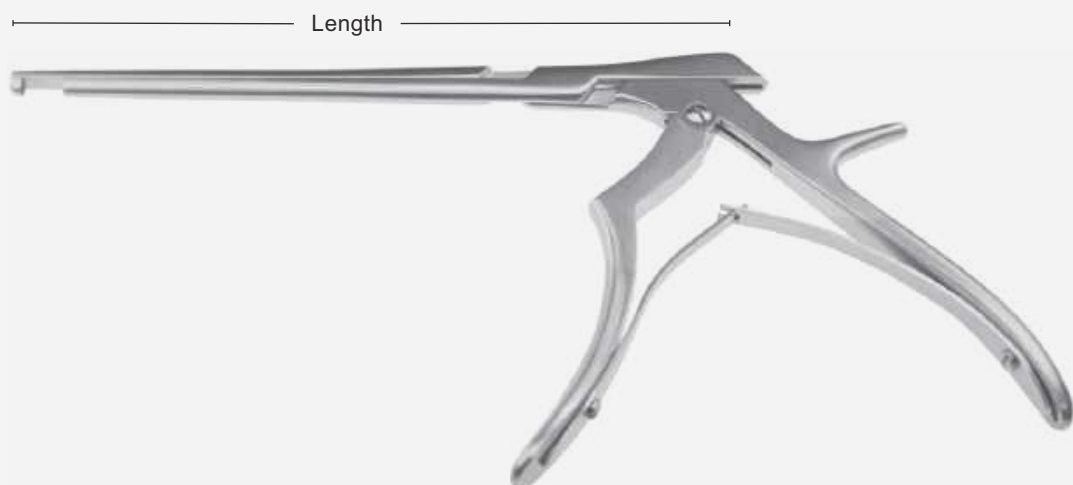
Upwards cutting 40°

Fig. 2

Fig. 2	Length
13-679-01	1 mm 18 cm / 7"
13-680-01	1 mm 23 cm / 9"
13-679-02	2 mm 18 cm / 7"
13-680-02	2 mm 23 cm / 9"
13-679-03	3 mm 18 cm / 7"
13-680-03	3 mm 23 cm / 9"
13-679-04	4 mm 18 cm / 7"
13-680-04	4 mm 23 cm / 9"
13-679-05	5 mm 18 cm / 7"
13-680-05	5 mm 23 cm / 9"
13-679-06	6 mm 18 cm / 7"
13-680-06	6 mm 23 cm / 9"

Upwards cutting 90°

i add "B" with catalogue part number if required in black TiN coating
 add "E" with catalogue part number if required with ejector



Standard handle



Love - Kerrison

Fig. 1

13-681-01
13-681-02
13-681-03
13-681-04
13-681-05
13-681-06
13-682-01
13-682-02
13-682-03
13-682-04
13-682-05
13-682-06

Upwards cutting 90°

Fig. 2

13-683-01
13-683-02
13-683-03
13-683-04
13-683-05
13-683-06
13-684-01
13-684-02
13-684-03
13-684-04
13-684-05
13-684-06

Upwards cutting 40°

Fig. 3

	Length
13-685-01	1 mm 18 cm / 7"
13-685-02	2 mm 18 cm / 7"
13-685-03	3 mm 18 cm / 7"
13-685-04	4 mm 18 cm / 7"
13-685-05	5 mm 18 cm / 7"
13-685-06	6 mm 18 cm / 7"
13-686-01	1 mm 20 cm / 8"
13-686-02	2 mm 20 cm / 8"
13-686-03	3 mm 20 cm / 8"
13-686-04	4 mm 20 cm / 8"
13-686-05	5 mm 20 cm / 8"
13-686-06	6 mm 20 cm / 8"

Upwards cutting 90°

i add "B" with catalogue part number if required in black TiN coating
add "E" with catalogue part number if required with ejector



Kerrison
 Fig. 1

13-723-02
13-723-03
13-723-04
13-723-05
13-724-01
13-724-02
13-724-03
13-724-04
13-724-05
13-725-02
13-725-03
13-725-04
13-725-05
13-726-02
13-726-03
13-726-04
13-726-05

Upwards cutting 90°
 Thin footplate

Fig. 2

13-727-02
13-727-03
13-727-04
13-727-05
13-728-01
13-728-02
13-728-03
13-728-04
13-728-05
13-729-02
13-729-03
13-729-04
13-729-05
13-730-02
13-730-03
13-730-04
13-730-05

Upwards cutting 40°
 Thin footplate

Fig. 3

13-731-02
13-731-03
13-731-04
13-731-05
13-732-01
13-732-02
13-732-03
13-732-04
13-732-05
13-733-02
13-733-03
13-733-04
13-733-05
13-001-02
13-001-03
13-001-04
13-001-05

Downwards cutting 90°
 Thin footplate

Fig. 4

		Length
13-002-02	2 mm	15 cm / 6"
13-002-03	3 mm	15 cm / 6"
13-002-04	4 mm	15 cm / 6"
13-002-05	5 mm	15 cm / 6"
13-734-01	1 mm	18 cm / 7"
13-734-02	2 mm	18 cm / 7"
13-734-03	3 mm	18 cm / 7"
13-734-04	4 mm	18 cm / 7"
13-734-05	5 mm	18 cm / 7"
13-003-02	2 mm	20 cm / 8"
13-003-03	3 mm	20 cm / 8"
13-003-04	4 mm	20 cm / 8"
13-003-05	5 mm	20 cm / 8"
13-004-02	2 mm	23 cm / 9"
13-004-03	3 mm	23 cm / 9"
13-004-04	4 mm	23 cm / 9"
13-004-05	5 mm	23 cm / 9"

Downwards cutting 40°
 Thin footplate

i add "B" with catalogue part number if required in black TiN coating
 add "E" with catalogue part number if required with ejector

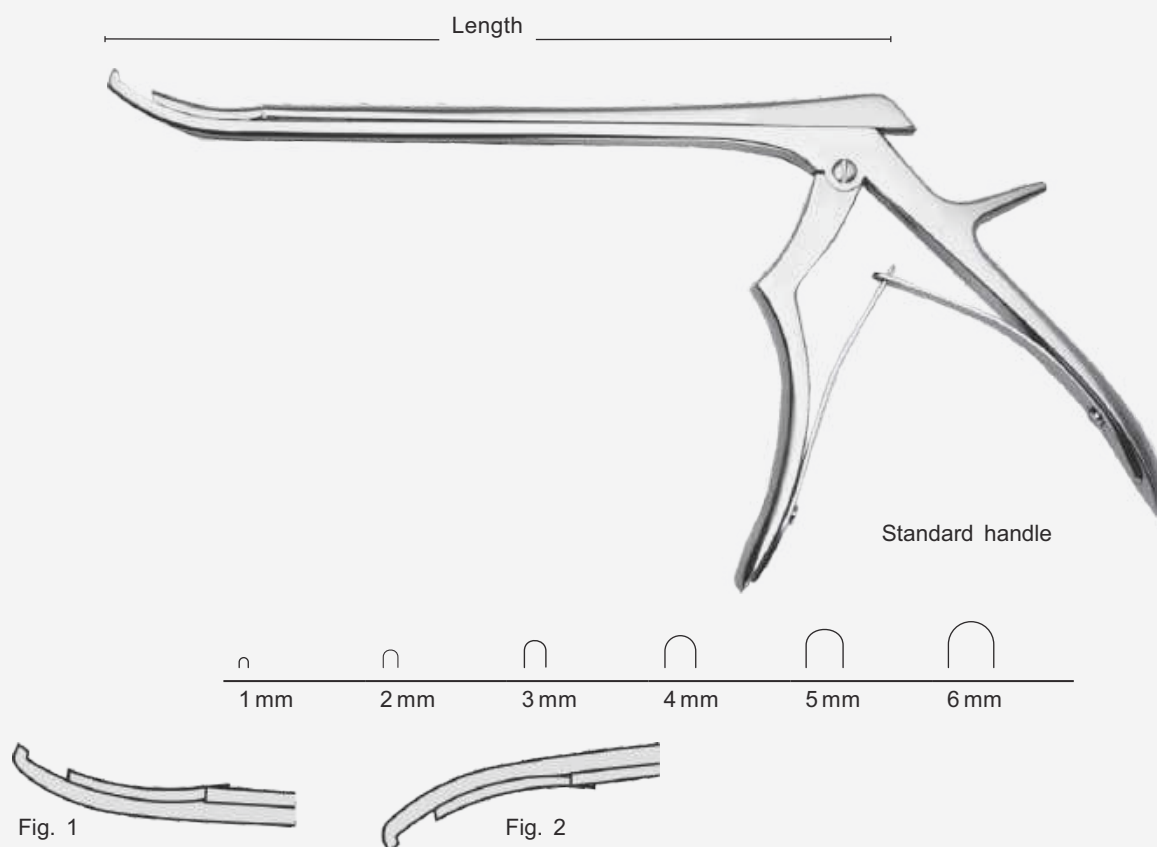


Fig. 1

Fig. 2

Kerrison
Fig. 1

	Fig. 2	Length
13-735-01	13-738-01 1 mm	18 cm / 7"
13-736-01	13-739-01 1 mm	20 cm / 8"
13-737-01	13-740-01 1 mm	23 cm / 9"
13-735-02	13-738-02 2 mm	18 cm / 7"
13-736-02	13-739-02 2 mm	20 cm / 8"
13-737-02	13-740-02 2 mm	23 cm / 9"
13-735-03	13-738-03 3 mm	18 cm / 7"
13-736-03	13-739-03 3 mm	20 cm / 8"
13-737-03	13-740-03 3 mm	23 cm / 9"
13-735-04	13-738-04 4 mm	18 cm / 7"
13-736-04	13-739-04 4 mm	20 cm / 8"
13-737-04	13-740-04 4 mm	23 cm / 9"
13-735-05	13-738-05 5 mm	18 cm / 7"
13-736-05	13-739-05 5 mm	20 cm / 8"
13-737-05	13-740-05 5 mm	23 cm / 9"
13-735-06	13-738-06 6 mm	18 cm / 7"
13-736-06	13-739-06 6 mm	20 cm / 8"
13-737-06	13-740-06 6 mm	23 cm / 9"

Upwards cutting 40°

Downwards cutting 40°

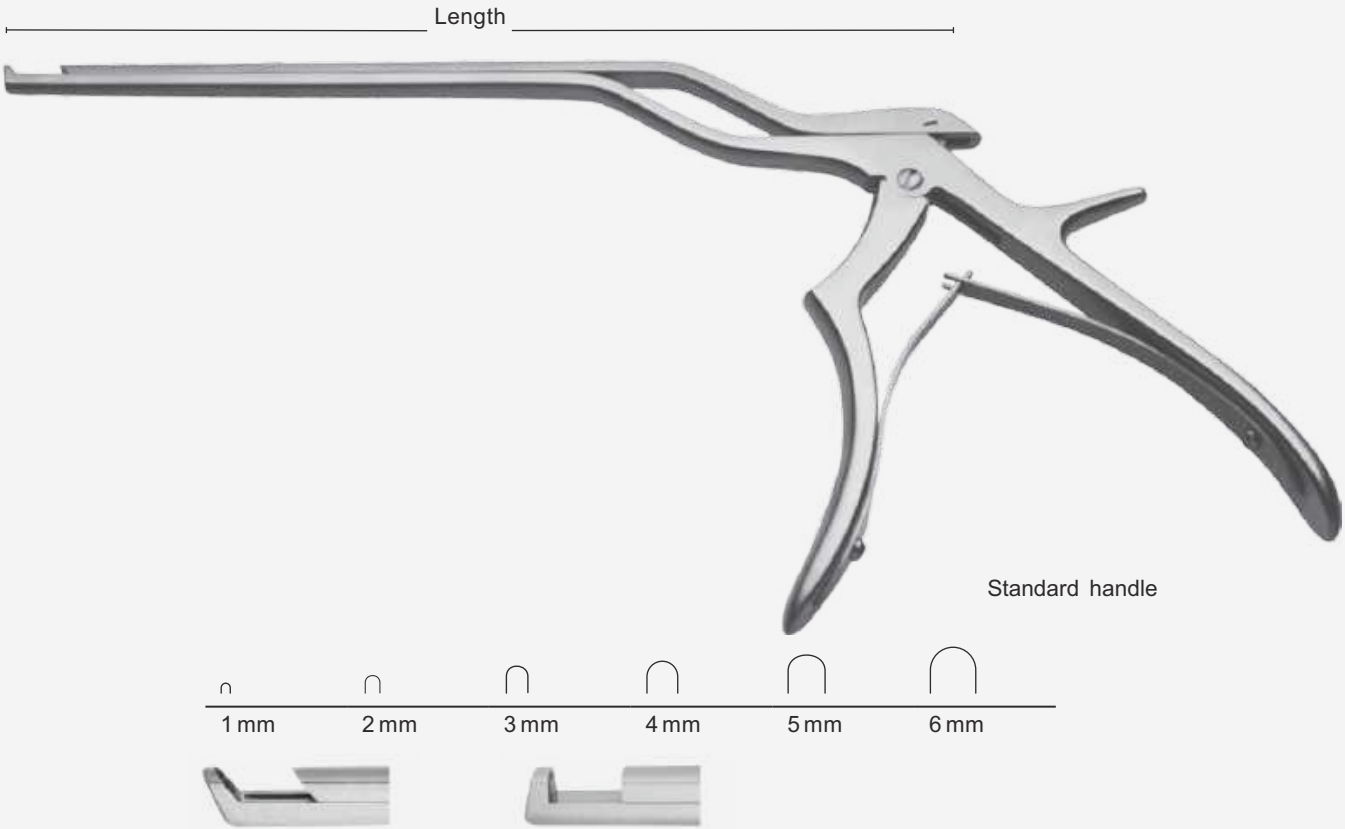
Kerrison
Fig. 1

	Fig. 2	Length
13-741-01	13-744-01 1 mm	18 cm / 7"
13-742-01	13-745-01 1 mm	20 cm / 8"
13-743-01	13-746-01 1 mm	23 cm / 9"
13-741-02	13-744-02 2 mm	18 cm / 7"
13-742-02	13-745-02 2 mm	20 cm / 8"
13-743-02	13-746-02 2 mm	23 cm / 9"
13-741-03	13-744-03 3 mm	18 cm / 7"
13-742-03	13-745-03 3 mm	20 cm / 8"
13-743-03	13-746-03 3 mm	23 cm / 9"
13-741-04	13-744-04 4 mm	18 cm / 7"
13-742-04	13-745-04 4 mm	20 cm / 8"
13-743-04	13-746-04 4 mm	23 cm / 9"
13-741-05	13-744-05 5 mm	18 cm / 7"
13-742-05	13-745-05 5 mm	20 cm / 8"
13-743-05	13-746-05 5 mm	23 cm / 9"
13-741-06	13-744-06 6 mm	18 cm / 7"
13-742-06	13-745-06 6 mm	20 cm / 8"
13-743-06	13-746-06 6 mm	23 cm / 9"

Upwards cutting 40°
Bayonet

Downwards cutting 40°
Bayonet

i add "B" with catalogue part number if required in black TiN coating
add "E" with catalogue part number if required with ejector



Kerrison
 Fig. 1

13-747-01
13-748-01
13-749-01
13-747-02
13-748-02
13-749-02
13-747-03
13-748-03
13-749-03
13-747-04
13-748-04
13-749-04
13-747-05
13-748-05
13-749-05
13-747-06
13-748-06
13-749-06

Upwards cutting 40°

Fig. 2

Length

13-750-01	1 mm	11 cm / 4¼"
13-751-01	1 mm	15 cm / 6"
13-752-01	1 mm	18 cm / 7"
13-750-02	2 mm	11 cm / 4¼"
13-751-02	2 mm	15 cm / 6"
13-752-02	2 mm	18 cm / 7"
13-750-03	3 mm	11 cm / 4¼"
13-751-03	3 mm	15 cm / 6"
13-752-03	3 mm	18 cm / 7"
13-750-04	4 mm	11 cm / 4¼"
13-751-04	4 mm	15 cm / 6"
13-752-04	4 mm	18 cm / 7"
13-750-05	5 mm	11 cm / 4¼"
13-751-05	5 mm	15 cm / 6"
13-752-05	5 mm	18 cm / 7"
13-750-06	6 mm	11 cm / 4¼"
13-751-06	6 mm	15 cm / 6"
13-752-06	6 mm	18 cm / 7"

Upwards cutting 90°

i add "B" with catalogue part number if required in black TiN coating
 add "E" with catalogue part number if required with ejector



Kerrison
Fig. 1

13-753-01
13-754-01
13-755-01
13-753-02
13-754-02
13-755-02
13-753-03
13-754-03
13-755-03
13-753-04
13-754-04
13-755-04
13-753-05
13-754-05
13-755-05
13-753-06
13-754-06
13-755-06

Upwards cutting 40°
Bayonet left



Fig. 2

13-756-01
13-757-01
13-758-01
13-756-02
13-757-02
13-758-02
13-756-03
13-757-03
13-758-03
13-756-04
13-757-04
13-758-04
13-756-05
13-757-05
13-758-05
13-756-06
13-757-06
13-758-06

Upwards cutting 90°
Bayonet left



Fig. 3

13-759-01
13-760-01
13-761-01
13-759-02
13-760-02
13-761-02
13-759-03
13-760-03
13-761-03
13-759-04
13-760-04
13-761-04
13-759-05
13-760-05
13-761-05
13-759-06
13-760-06
13-761-06

Upwards cutting 40°
Bayonet right



Fig. 4

		Length
13-762-01	1 mm	11 cm / 4 1/4"
13-763-01	1 mm	15 cm / 6"
13-764-01	1 mm	18 cm / 7"
13-762-02	2 mm	11 cm / 4 1/4"
13-763-02	2 mm	15 cm / 6"
13-764-02	2 mm	18 cm / 7"
13-762-03	3 mm	11 cm / 4 1/4"
13-763-03	3 mm	15 cm / 6"
13-764-03	3 mm	18 cm / 7"
13-762-04	4 mm	11 cm / 4 1/4"
13-763-04	4 mm	15 cm / 6"
13-764-04	4 mm	18 cm / 7"
13-762-05	5 mm	11 cm / 4 1/4"
13-763-05	5 mm	15 cm / 6"
13-764-05	5 mm	18 cm / 7"
13-762-06	6 mm	11 cm / 4 1/4"
13-763-06	6 mm	15 cm / 6"
13-764-06	6 mm	18 cm / 7"

Upwards cutting 90°
Bayonet right

i add "B" with catalogue part number if required in black TiN coating
add "E" with catalogue part number if required with ejector



Kerrison Detachable

Fig. 1

13-765-01
13-766-01
13-765-02
13-766-02
13-765-03
13-766-03
13-765-04
13-766-04
13-765-05
13-766-05
13-765-06
13-766-06

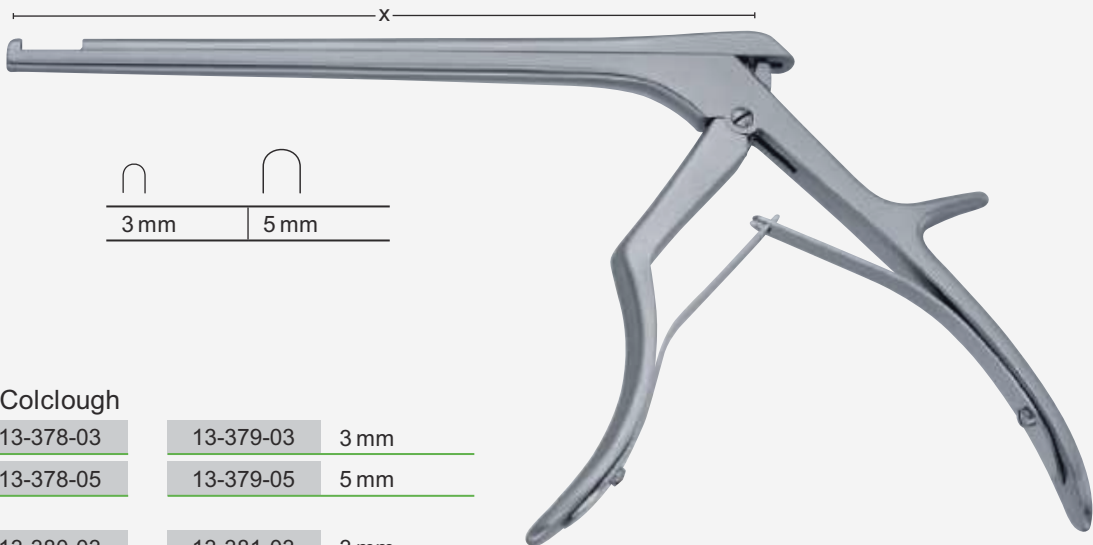
Upwards cutting 40°

Fig. 2

	Length
13-667-01	1 mm 18 cm / 7"
13-668-01	1 mm 23 cm / 9"
13-667-02	2 mm 18 cm / 7"
13-668-02	2 mm 23 cm / 9"
13-667-03	3 mm 18 cm / 7"
13-668-03	3 mm 23 cm / 9"
13-667-04	4 mm 18 cm / 7"
13-668-04	4 mm 23 cm / 9"
13-667-05	5 mm 18 cm / 7"
13-668-05	5 mm 23 cm / 9"
13-667-06	6 mm 18 cm / 7"
13-668-06	6 mm 23 cm / 9"

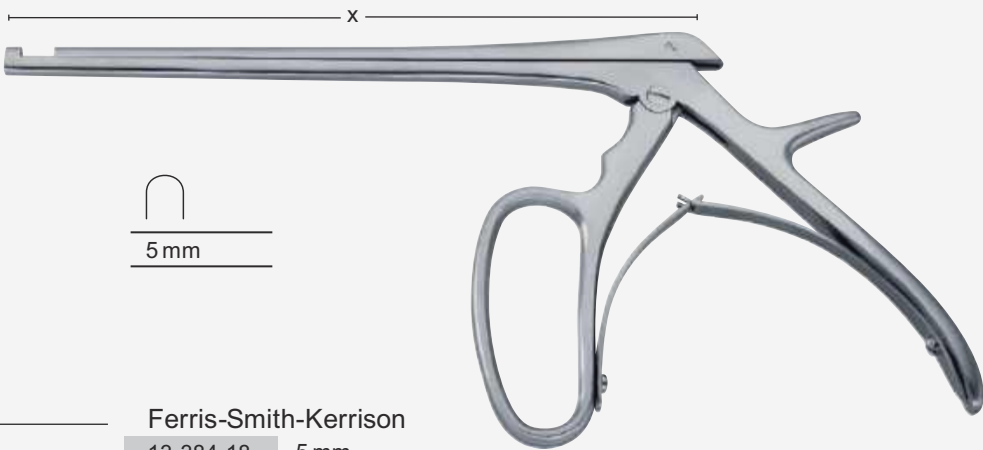
Upwards cutting 90°

i add "B" with catalogue part number if required in black TiN coating
 add "E" with catalogue part number if required with ejector



Colclough

	13-378-03	13-379-03	3 mm
	13-378-05	13-379-05	5 mm
	13-380-03	13-381-03	3 mm
	13-380-05	13-381-05	5 mm
	13-382-03	13-383-03	3 mm
	13-382-05	13-383-05	5 mm
	x = 15 cm - 6"		x = 20 cm - 8"

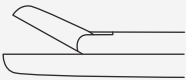
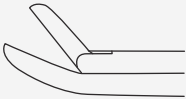
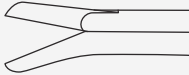


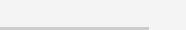
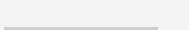
Ferris-Smith-Kerrison

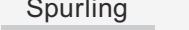
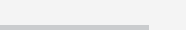
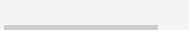
	13-384-18	5 mm
	13-385-18	5 mm
	x = 18 cm - 7"	

i add "B" with catalogue part number if required in black TiN coating
add "E" with catalogue part number if required with ejector

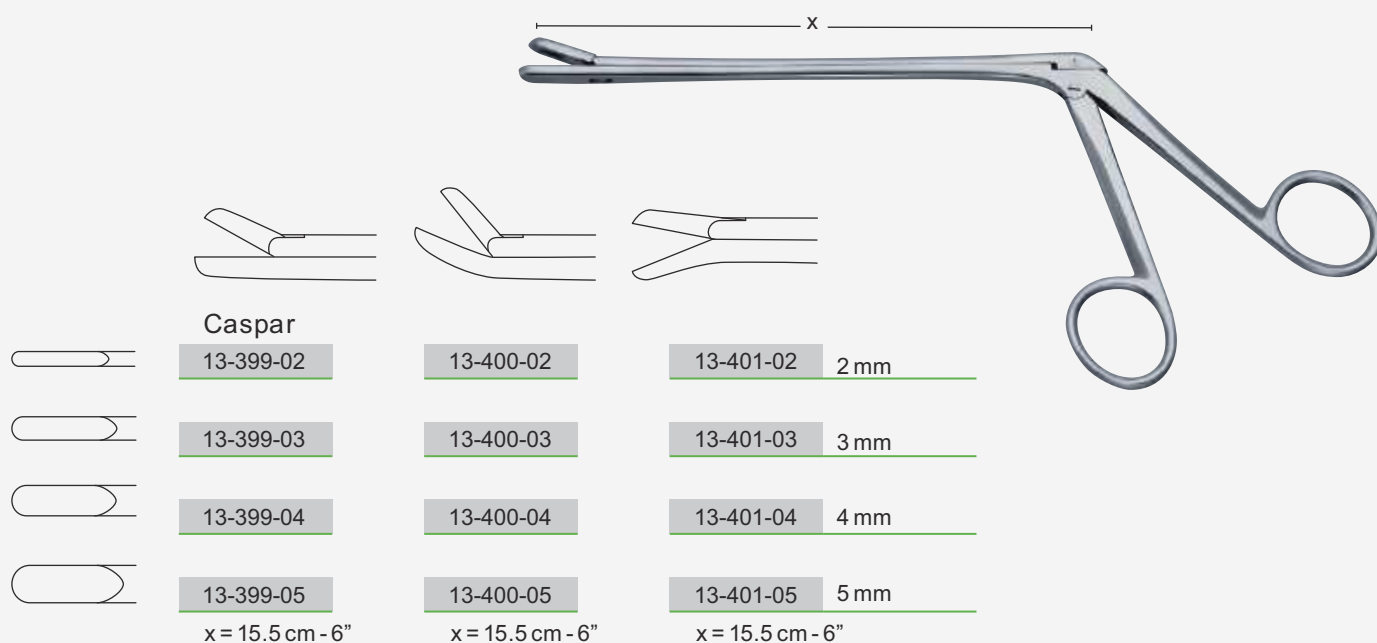
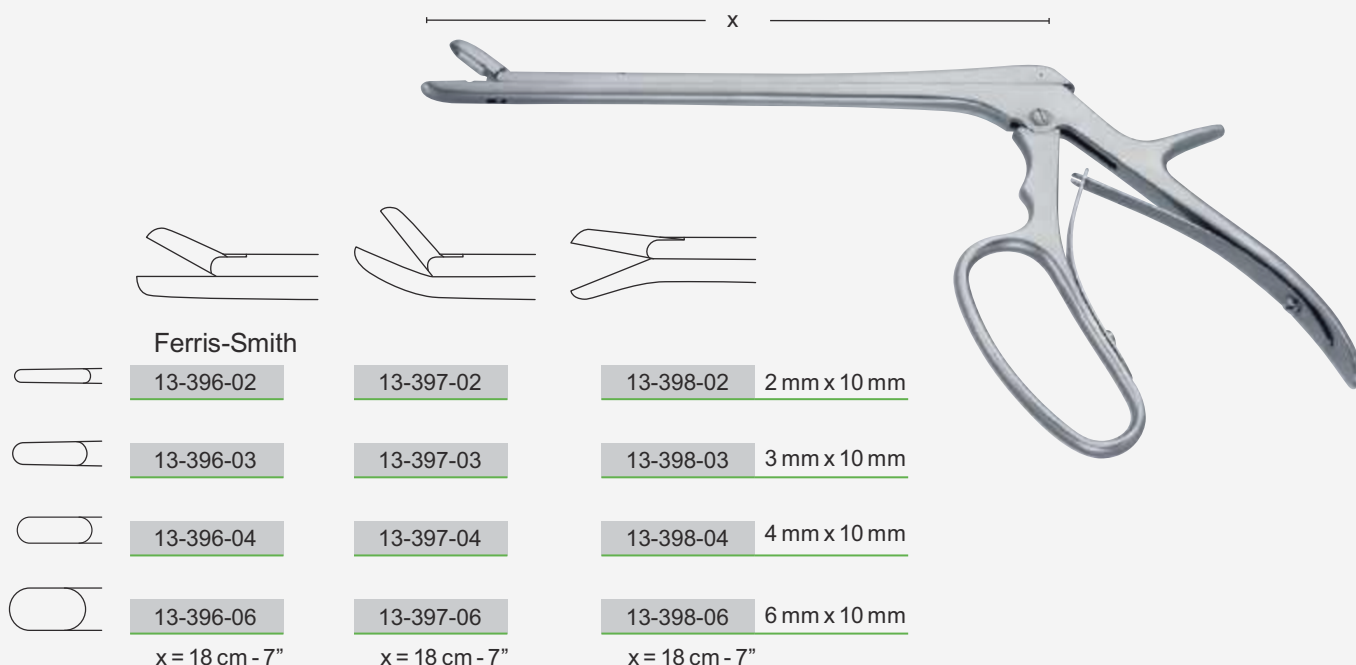


			
Cushing			
	13-386-13	13-387-13	13-388-13 x = 13 cm - 5"
	13-386-18	13-387-18	13-388-18 x = 18 cm - 7"
	13-386-22	13-387-22	13-388-22 x = 22 cm - 8 3/4"
	2 mm x 10 mm	2 mm x 10 mm	2 mm x 10 mm

			
Love-Gruenwald			
	13-389-13	13-390-13	13-391-13 x = 13 cm - 5"
	13-389-18	13-390-18	13-391-18 x = 18 cm - 7"
	13-389-22	13-390-22	13-391-22 x = 22 cm - 8 3/4"
	3 mmx10 mm	3 mmx10 mm	3 mmx10 mm

			
Spurling			
	13-392-13	13-393-13	13-394-13 x = 13 cm - 5"
	13-392-18	13-393-18	13-394-18 x = 18 cm - 7"
	13-392-22	13-393-22	13-394-22 x = 22 cm - 8 3/4"
	4 mm x 10 mm	4 mm x 10 mm	4 mm x 10 mm

	
Cloward	
	13-395-18 x = 18 cm - 7"
	6 mm x 10 mm





Oldenberg

13-402-17	13-403-17	17 cm - 6 3/4"
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3.5 mm Ø

6.0 mm Ø

x = 180 mm - 7"

x = 180 mm - 7"



Schlesinger

13-404-19	19 cm - 7 1/2"
-----------	----------------

13-404-21	21.5 cm - 8 1/2"
-----------	------------------

3 mm x 10 mm

x = 125 mm - 5"

saw edge

gezahnt

dentada

dentelé

dentata



Caspar

13-405-02	13-406-02	13-407-02	2 mm x 12 mm
13-405-03	13-406-03	13-407-03	3 mm x 12 mm
13-405-04	13-406-04	13-407-04	4 mm x 14 mm
13-405-05	13-406-05	13-407-05	5 mm x 14 mm
13-405-06	13-406-06	13-407-06	6 mm x 16 mm

x = 14 cm - 5 1/2"

x = 16 cm - 6 1/4"

x = 18.5 cm - 7 1/4"



13-408-02	13-409-02	13-410-02	2 mm x 12 mm
13-408-04	13-409-04	13-410-04	4 mm x 14 mm
13-408-05	13-409-05	13-410-05	5 mm x 14 mm
13-408-06	13-409-06	13-410-06	6 mm x 16 mm

x = 14 cm - 5 1/2"

x = 16 cm - 6 1/4"

x = 18.5 cm - 7 1/4"



13-411-05	13-412-05	13-413-05	5 mm x 14 mm
13-411-06	13-412-06	13-413-06	6 mm x 16 mm

x = 14 cm - 5 1/2"

x = 16 cm - 6 1/4"

x = 18.5 cm - 7 1/4"

Jaw fenestrated and serrated

Maul gefenstert und gezahnt

Boca con orificio y dentada

Mors fenêtré et dentelé

Morso finestrato e dentellato



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

**Weil-
Blakesley**



0°

18-288-12

a = 3.0mm

18-289-12

a = 3.5mm

18-290-12

a = 4.5mm

18-291-12

a = 5.0mm

18-292-12

a = 5.5mm

x = 12 cm - 4 ¾"



45°

18-293-00

a = 3.0mm

18-294-00

a = 3.5mm

18-295-00

a = 4.5mm

18-296-00

a = 5.0mm



90°

18-297-00

a = 3.0mm

18-298-00

a = 3.5mm

18-299-00

a = 4.5mm



45°

Fig. 1

18-300-18

a = 3.0mm

Fig. 2

18-301-18

a = 3.5mm

Fig. 3

18-302-18

a = 4.5mm

Fig. 4

18-303-18

a = 5.0mm

Fig. 5

18-304-18

a = 5.5mm

x = 18 cm - 7"



90°

18-305-18

a = 3.0mm

18-306-18

a = 3.5mm

18-307-18

a = 4.5mm

18-308-18

a = 5.0mm

x = 18 cm - 7"



Cloward

08-160-16	Retractor only	16 cm - 6 1/4"
08-160-00	Complete set consisting of:	
	1 Retractor	
	1 pair of blades 08-164-01 to 08-164-05	



08-161-25	Retractor only	25 cm - 9 3/4"
08-161-00	Complete set consisting of:	
	1 Retractor	
	1 pair of blades 08-164-01 to 08-164-05	



08-164-01	Fig.1	x = 60 mm
08-164-02	Fig.2	x = 55 mm
08-164-03	Fig.3	x = 50 mm
08-164-04	Fig.4	x = 45 mm
08-164-05	Fig.5	x = 40 mm

Non toothed
Nicht gezahnt
No dentada
Non denté
Non dentato



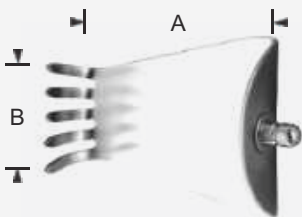
08-165-01	Fig.1	x = 60 mm
08-165-02	Fig.2	x = 55 mm
08-165-03	Fig.3	x = 50 mm
08-165-04	Fig.4	x = 45 mm
08-165-05	Fig.5	x = 40 mm

Toothed
Gezahnt
Dentada
Dentelée
Dentata



Cloward - Hoen

13-867-25	Retractor only	25 cm - 10"
13-867-00	Complete set consisting of:	
13-867-25	1 Retractor	
	1 pair of blades 13-858-50 to 13-868-64	



Cloward - Hoen

	A	B
13-868-50	50x31mm	
13-868-64	64x31mm	



Caspar
Fig. 1

13-878-01	Retractor only
13-878-00	Complete set consisting of:
13-878-01	1 Retractor
	1 pair of blades 13-888-45 to 13-888-65



Caspar
Fig. 2

13-879-01	Retractor only
13-879-00	Complete set consisting of:
13-879-01	1 Retractor
	1 pair of blades 13-888-45 to 13-888-65



Caspar
Fig. 3

13-880-03	Retractor only
13-880-00	Complete set consisting of:
13-880-03	1 Retractor
	1 pair of blades 13-884-40 to 13-884-60
	1 pair of blades 13-885-40 to 13-885-60



Blade Opener

13-881-11

11.5 cm - 4 1/2"

Forceps for changing
the blades



Blade Inserter

13-882-20

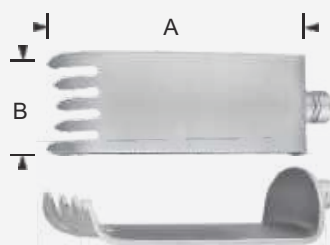
20 cm - 8"

Ferrozell handle

13-883-20

20 cm - 8"

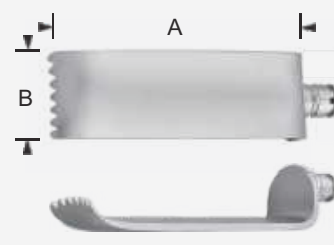
Propylux handle



5 Prongs Blade A B

13-884-40	40 x 23 mm
13-884-45	45 x 23 mm
13-884-50	50 x 23 mm
13-884-55	55 x 23 mm
13-884-60	60 x 23 mm
13-884-65	65 x 23 mm
13-884-75	75 x 23 mm

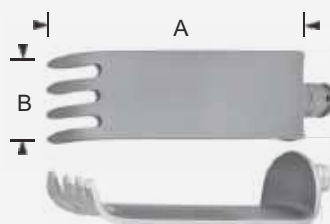
Medial



Toothed Blade A B

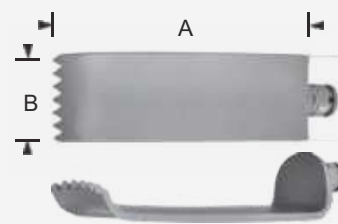
13-885-40	40 x 23 mm
13-885-45	45 x 23 mm
13-885-50	50 x 23 mm
13-885-55	55 x 23 mm
13-885-60	60 x 23 mm
13-885-65	65 x 23 mm
13-885-75	75 x 23 mm

Lateral



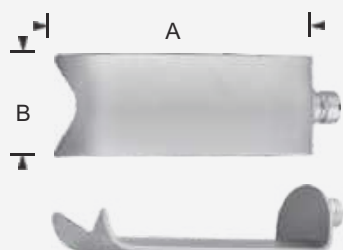
4 Prongs Blade A B

13-886-40	40 x 23 mm
13-886-45	45 x 23 mm
13-886-50	50 x 23 mm
13-886-55	55 x 23 mm
13-886-60	60 x 23 mm
13-886-65	65 x 23 mm

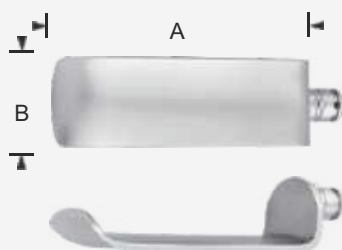


Toothed Blade A B

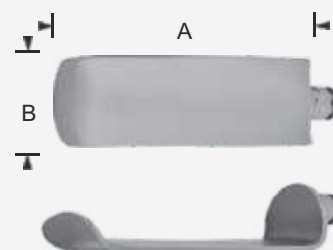
13-887-40	40 x 23 mm
13-887-45	45 x 23 mm
13-887-50	50 x 23 mm
13-887-55	55 x 23 mm
13-887-60	60 x 23 mm
13-887-65	65 x 23 mm



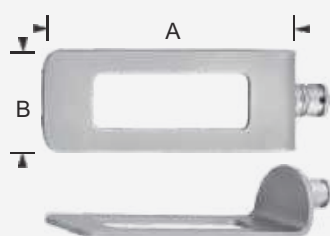
Concave Blade	A	B
13-888-40	40 x 23 mm	
13-888-45	45 x 23 mm	
13-888-50	50 x 23 mm	
13-888-55	55 x 23 mm	
13-888-60	60 x 23 mm	
13-888-65	65 x 23 mm	
13-888-70	70 x 23 mm	
13-888-75	75 x 23 mm	



Blunt Blade	A	B
13-889-40	40 x 23 mm	
13-889-45	45 x 23 mm	
13-889-50	50 x 23 mm	
13-889-55	55 x 23 mm	
13-889-60	60 x 23 mm	
13-889-65	65 x 23 mm	

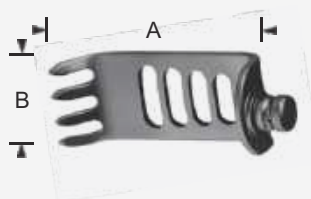


Blunt Blade	A	B
13-890-30	30 x 20 mm	
13-890-35	35 x 20 mm	
13-890-40	40 x 20 mm	
13-890-45	45 x 20 mm	
13-890-50	50 x 20 mm	
13-890-55	55 x 20 mm	
13-890-60	60 x 20 mm	
13-890-65	65 x 20 mm	
13-890-70	70 x 20 mm	
13-890-75	75 x 20 mm	



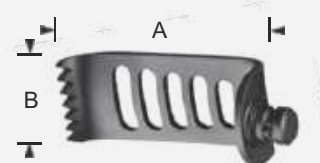
Blunt Blade	A	B
13-891-50	50 x 25 mm	
13-891-60	60 x 25 mm	

Blades for harvesting of the fusion graft from the iliac crest, blunt



Fenestrated Blade Fig. 1	A	B
13-892-25	25 x 20 mm	
13-892-30	30 x 20 mm	
13-892-35	35 x 20 mm	
13-892-40	40 x 20 mm	
13-892-45	45 x 20 mm	
13-892-50	50 x 20 mm	
13-892-55	55 x 20 mm	
13-892-60	60 x 20 mm	
13-892-65	65 x 20 mm	
13-892-70	70 x 20 mm	

Medial



Fenestrated Blade Fig. 2	A	B
13-893-25	25 x 20 mm	
13-893-30	30 x 20 mm	
13-893-35	35 x 20 mm	
13-893-40	40 x 20 mm	
13-893-45	45 x 20 mm	
13-893-50	50 x 20 mm	
13-893-55	55 x 20 mm	
13-893-60	60 x 20 mm	
13-893-65	65 x 20 mm	
13-893-70	70 x 20 mm	

Lateral



Cervical Spin
Fig. 1

13-894-13	Retractor only	13.5 cm - 5 1/4"
13-894-00	Complete set consisting of:	
13-894-13	1 Retractor	
	1 pair of blades 13-884-40 to 13-884-60	
	1 pair of blades 13-885-40 to 13-885-60	

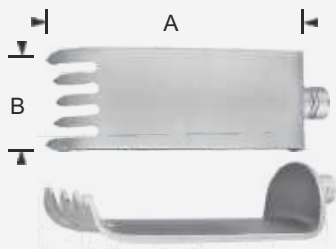
Transverse retractor, double hinged



Cervical Spin
Fig. 2

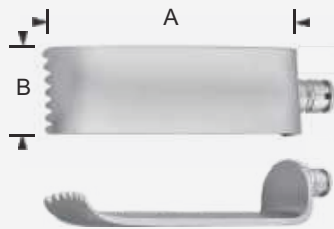
13-895-20	Retractor only	20 cm - 8"
13-895-00	Complete set consisting of:	
13-895-20	1 Retractor	
	1 pair of blades 13-884-40 to 13-884-60	
	1 pair of blades 13-885-40 to 13-885-60	

Transverse retractor, double hinged



5 Prongs Blade	A	B
13-884-40	40 x 23 mm	
13-884-45	45 x 23 mm	
13-884-50	50 x 23 mm	
13-884-55	55 x 23 mm	
13-884-60	60 x 23 mm	
13-884-65	65 x 23 mm	
13-884-75	75 x 23 mm	

Medial



Toothed Blade	A	B
13-885-40	40 x 23 mm	
13-885-45	45 x 23 mm	
13-885-50	50 x 23 mm	
13-885-55	55 x 23 mm	
13-885-60	60 x 23 mm	
13-885-65	65 x 23 mm	
13-885-75	75 x 23 mm	

Lateral



Cervical Spin
Fig. 3

		A	
13-896-17	Retractor only	90mm	17 cm - 6 ¾"
13-896-00	Complete set consisting of:		
13-896-17	1 Retractor		
	1 pair of blades 13-884-40 to 13-884-60		
	1 pair of blades 13-885-40 to 13-885-60		

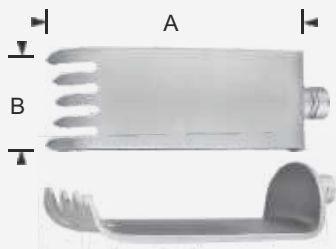
Retractor, double hinged, open blade reception



Cervical Spin
Fig. 4

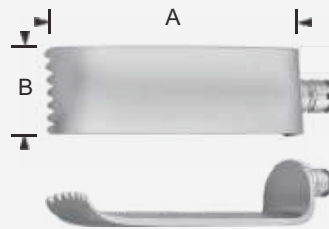
		A	B	C	
13-897-11	Retractor only	90mm	115mm	130mm	11.5 cm - 4 ½"
13-897-00	Complete set consisting of:				
13-897-11	1 Retractor				
	1 pair of blades 13-884-40 to 13-884-60				
	1 pair of blades 13-885-40 to 13-885-60				

Retractor, double hinged, open blade reception



5 Prongs Blade	A	B
13-884-40	40 x 23 mm	
13-884-45	45 x 23 mm	
13-884-50	50 x 23 mm	
13-884-55	55 x 23 mm	
13-884-60	60 x 23 mm	
13-884-65	65 x 23 mm	
13-884-75	75 x 23 mm	

Medial



Toothed Blade	A	B
13-885-40	40 x 23 mm	
13-885-45	45 x 23 mm	
13-885-50	50 x 23 mm	
13-885-55	55 x 23 mm	
13-885-60	60 x 23 mm	
13-885-65	65 x 23 mm	
13-885-75	75 x 23 mm	

Lateral



Cervical Spin
 Fig. 5

13-898-13	Retractor only	13.5 cm - 5 1/4"
13-898-00	Complete set consisting of:	
13-898-13	1 Retractor	
	1 pair of blades 13-900-40 to 13-900-60	
	1 pair of blades 13-901-40 to 13-901-60	
	1 pair of blades 13-902-40 to 13-902-60	

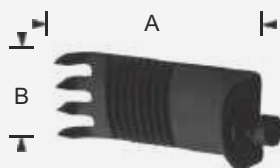
Transverse retractor, double hinged



Cervical Spin
 Fig. 6

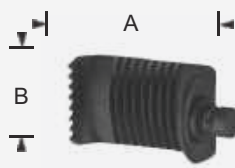
13-899-20	Retractor only	20 cm - 8"
13-899-00	Complete set consisting of:	
13-899-20	1 Retractor	
	1 pair of blades 13-900-40 to 13-900-60	
	1 pair of blades 13-901-40 to 13-901-60	
	1 pair of blades 13-902-40 to 13-902-60	

Transverse retractor, double hinged



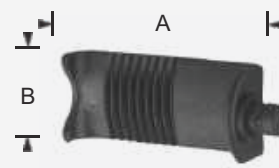
	A	B
13-900-40	40 x 23 mm	
13-900-45	45 x 23 mm	
13-900-50	50 x 23 mm	
13-900-55	55 x 23 mm	
13-900-60	60 x 23 mm	
13-900-65	65 x 23 mm	
13-900-70	70 x 23 mm	
13-900-75	75 x 23 mm	

Blades, medial



	A	B
13-901-40	40 x 23 mm	
13-901-45	45 x 23 mm	
13-901-50	50 x 23 mm	
13-901-55	55 x 23 mm	
13-901-60	60 x 23 mm	
13-901-65	65 x 23 mm	
13-901-70	70 x 23 mm	
13-901-75	75 x 23 mm	

Blades, lateral



	A	B
13-902-40	40 x 23 mm	
13-902-45	45 x 23 mm	
13-902-50	50 x 23 mm	
13-902-55	55 x 23 mm	
13-902-60	60 x 23 mm	
13-902-65	65 x 23 mm	
13-902-70	70 x 23 mm	
13-902-75	75 x 23 mm	

Blades, blunt



Mc Culloch

13-903-01

Rigid



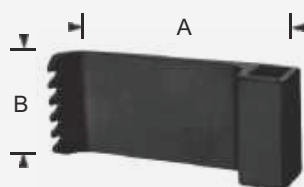
Mc Culloch

13-904-01 Retractor only

13-904-00 Complete set consisting of:

13-904-01	1 Retractor
	1 pair of blades 13-905-40 to 13-905-60
	1 pair of blades 13-906-40 to 13-906-60
	1 pair of blades 13-907-40 to 13-907-60
21-545-03	1 Wire basket 540 x 255 x 70mm
21-627-04	2 Silicone mats 380 x 230 mm

Hinged



	A	B	
13-905-30	30 x 23 mm	1 piece	
13-905-40	40 x 23 mm	1 piece	
13-905-50	50 x 23 mm	1 piece	
13-905-60	60 x 23 mm	1 piece	
13-905-70	70 x 23 mm	1 piece	
13-905-80	80 x 23 mm	1 piece	
13-905-00	Set	1 pair each	

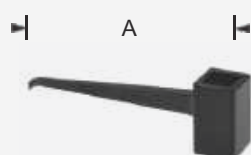
Muscle blades, wide



	A	B	
13-906-30	30 x 20 mm	1 piece	
13-906-40	40 x 20 mm	1 piece	
13-906-50	50 x 20 mm	1 piece	
13-906-60	60 x 20 mm	1 piece	
13-906-70	70 x 20 mm	1 piece	
13-906-80	80 x 20 mm	1 piece	
13-906-00	Set	1 pair each	

Muscle blades, narrow

 add "C" with catalogue part number if required in black ceramic coating



	A	
13-907-20	20 mm	1 piece
13-907-30	30 mm	1 piece
13-907-40	40 mm	1 piece
13-907-50	50 mm	1 piece
13-907-60	60 mm	1 piece
13-907-70	70 mm	1 piece
13-907-00	Set	1 pair each

Hook blades



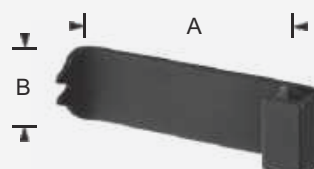
	A	
13-908-20	20 mm	1 piece
13-908-30	30 mm	1 piece
13-908-40	40 mm	1 piece
13-908-50	50 mm	1 piece
13-908-60	60 mm	1 piece
13-908-70	70 mm	1 piece
13-908-00	Set	1 pair each

Hook blades



	A B	
13-909-30	30 x 17 mm	1 piece
13-909-40	40 x 17 mm	1 piece
13-909-50	50 x 17 mm	1 piece
13-909-60	60 x 17 mm	1 piece
13-909-70	70 x 17 mm	1 piece
13-909-80	80 x 17 mm	1 piece
13-909-00	Set	1 pair each

Thin muscle blades



	A B	
13-910-50	50 x 20 mm	1 piece
13-910-60	60 x 20 mm	1 piece
13-910-70	70 x 20 mm	1 piece
13-910-00	Set	1 pair each

Cervical blades

 add "C" with catalogue part number if required in black ceramic coating



Caspar	Blade length
13-911-40	40 mm
13-911-45	45 mm
13-911-50	50 mm
13-911-55	55 mm
13-911-60	60 mm
13-911-65	65 mm
13-911-70	70 mm
13-911-75	75 mm
13-911-85	85 mm

Specula



Caspar
13-912-00
Counter retractor frame



	A B
13-913-35	35 x 15 mm
13-913-40	40 x 15 mm
13-913-45	45 x 15 mm
13-913-50	50 x 15 mm
13-913-55	55 x 15 mm
13-913-60	60 x 15 mm
13-913-65	65 x 15 mm
13-913-70	70 x 15 mm
13-913-75	75 x 15 mm
13-913-85	85 x 15 mm

Blades, lateral



	A B
13-914-40	40 x 15 mm
13-914-45	45 x 15 mm
13-914-50	50 x 15 mm
13-914-55	55 x 15 mm
13-914-60	60 x 15 mm
13-914-65	65 x 15 mm
13-914-70	70 x 15 mm

Blades, medial

i Vertebral body distractor,
 for use in surgical procedures from the left approach for
 C5 through T1/2 and from the right approach for the upper
 cervical spine.



Cervical Body Distractor, Left
 13-915-00

Vertebral body distractor left only
 with standard prolonged toothed bar
 (length 113 mm)



Drill Guide, Left
 13-916-00

Drill guide,
 for parallel positioning of the
 distraction screws,
 to be used with distractor 13-915-00

i Vertebral body distractor,
 for use in surgical procedures from the right approach for
 C5 through T1/2 and from the left approach for the upper
 cervical spine.



Cervical Body Distractor, Right
 13-917-00

Vertebral body distractor right only
 with standard prolonged toothed bar
 (length 113 mm)



Drill Guide, Right
 13-918-00

Drill guide,
 for parallel positioning of the
 distraction screws,
 to be used with distractor 13-917-00



Cervical Body Distractor, Left
13-919-00

Spreading right, 110 mm wide,
total opening 70 mm,
depths of shank 60 mm



Cervical Body Distractor, Right
13-920-00

Spreading left, 110 mm wide,
total opening 70 mm,
depths of shank 60 mm



Distraction Screw

13-921-12	12 mm
13-921-14	14 mm
13-921-16	16 mm
13-921-18	18 mm

7 cm - 2 3/4"

Distraction screws
to be used with distractors
13-915-00 and 13-917-00
at least 2 each are required
Packing unit of 2 pieces



Distraction Screw Modified A

13-922-12	90 mm	12 mm
13-922-14	92 mm	14 mm
13-922-16	94 mm	16 mm



Twist Drill

13-923-14

14.5 cm - 5 3/4"
Ø 1.7 mm,
for pre-drilling holes for
distraction screws,
Drilling depth: 8 mm,
sheath Ø 2.35 mm



Screw Driver

13-924-01 20 cm - 8"

For distraction screws
 Ferrozell handle

13-924-02 20 cm - 8"

For distraction screws
 Propylux handle



Bone Graft Holder

13-925-01 22 cm - 8 3/4"

Insertion instrument
 Ferrozell handle

13-925-02 22 cm - 8 3/4"

Insertion instrument
 Propylux handle



Fig. 1

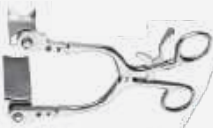
Fig. 2

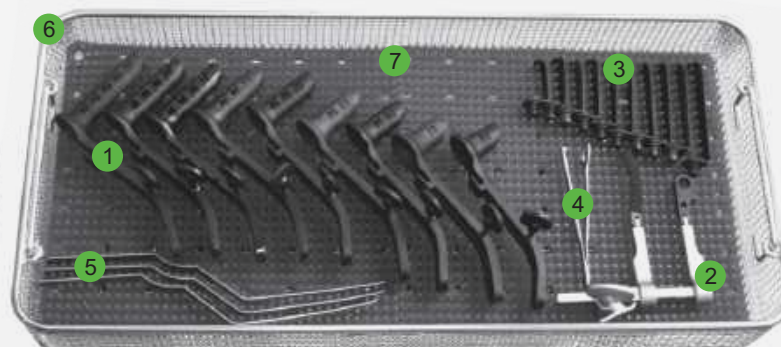
Dissector

13-926-01 Fig. 1

13-926-02 Fig. 2

20.5 cm - 8"
 Vertebral body dissectors
 Ferrozell handle

	Item No.	Description
	Cervical Retractor Set	
	13-927-00	Set consisting of:
	13-878-01	1 Caspar Retractor Fig. 1
	13-879-02	1 Caspar Retractor Fig. 3
	13-880-03	2 Micro forceps straight 18 cm - 7"
	13-179-18	1 Micro forceps straight 18 cm - 7"
	13-892-25 to 13-892-70	1 pair of blades
	13-893-40 to 13-893-70	1 pair of blades
	13-890-30 to 13-890-75	1 pair of blades
	13-881-00	1 Forceps for changing the blades with ball snap closure
	21-545-03	1 Wire basket 540 x 255 x 70 mm
	21-627-04	2 Silicone mats 380 x 230 mm

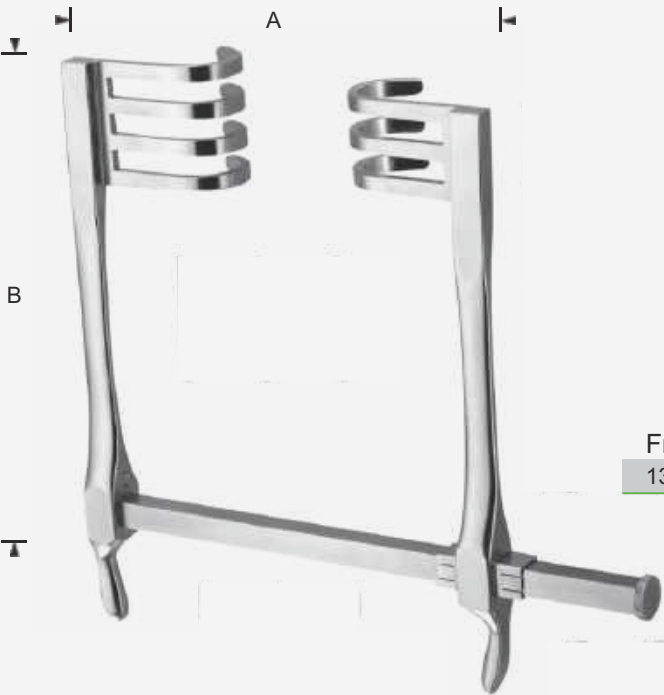


	Item No.	Description
	Micro Disectomy Set Fig. 1	
	13-928-00	Set consisting of:
1	13-911-40 to 13-911-85	1 pair of blades
2	13-912-00	1 Caspar Counter Retractor Frame
3	13-913-35 to 13-913-85	2 Micro forceps straight 18 cm - 7"
4	13-881-00	1 Forceps for changing the blades with ball snap closure
5	13-227-06 to 13-227-10	Caspar nerve root retractors
6	21-515-03	1 Wire basket 540 x 255 x 70 mm
7	21-627-04	2 Silicone mats 380 x 230 mm

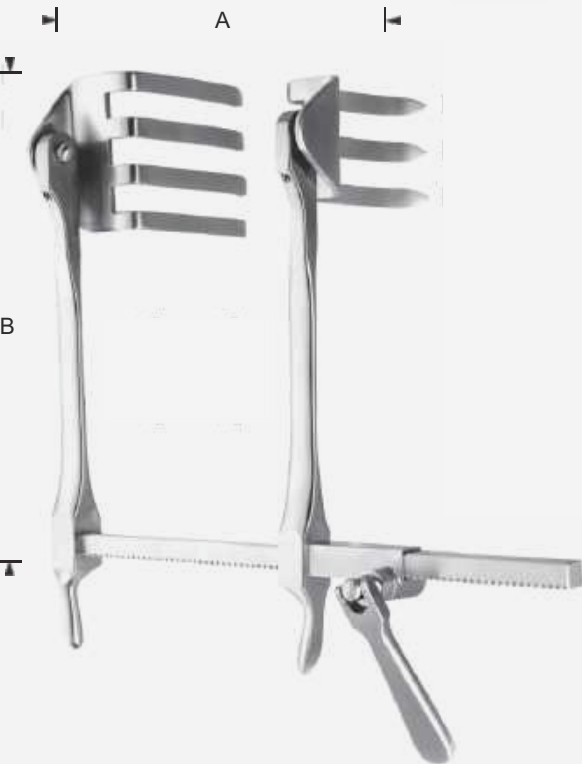
	Item No.	Description
	Micro Disectomy Set Fig. 2	
	13-929-00	Set consisting of:
1	13-911-40 to 13-911-85	1 pair of blades
2	13-912-00	1 Caspar Counter Retractor Frame
3	13-913-35 to 13-913-85	2 Micro forceps straight 18 cm - 7"
4	13-881-00	1 Forceps for changing the blades with ball snap closure
6	21-515-03	1 Wire basket 540 x 255 x 70 mm
7	21-627-04	2 Silicone mats 380 x 230 mm

	Item No.	Description
	Micro Disectomy Set Fig. 3	
	13-930-00	Set consisting of:
	13-917-00	1 Caspar Retractor Fig. 1
	13-918-00	1 Drill guide, right
	13-924-01	1 Screw driver
	13-923-14	1 Twist drill
	13-921-14	10 pcs Distraction screws

	Item No.	Description
	Micro Disectomy Set Fig. 4	
	13-931-00	Set consisting of:
	13-912-00	1 Caspar counter retractor frame
	13-911-40 to 13-911-85	1 pair of blades
	13-913-40 to 13-913-85	1 pair of blades
	13-881-00	1 Forceps for changing the blades with ball snap closure



Frazier	A	B
13-932-50	16.5 cm - 6 1/2"	13 cm - 5"



Scoville - Richter	A	B
13-933-01	14 cm - 5 1/2"	17 cm - 6 3/4"
13-933-00	Complete set consisting of:	
13-933-01	1 Retractor	17 cm - 6 3/4"
	13-934-01 to 13-934-02	
	1 pair of each	

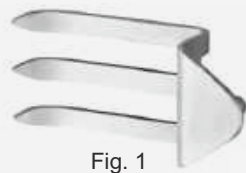


Fig. 1



Fig. 2

Scoville - Richter		
13-934-01	Fig. 1	60 x 37 mm
13-934-02	Fig. 2	60 x 50 mm
1 pair of blades		



Fig. 3

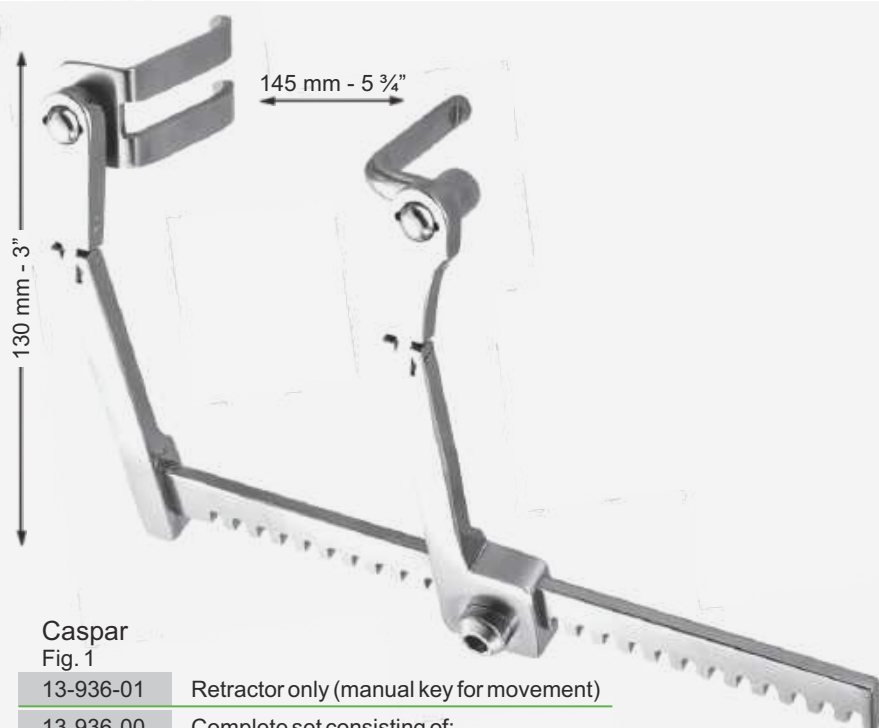


Fig. 4



Fig. 5

Scoville - Richter		
13-935-03	Fig. 3	48 x 50 mm
13-935-04	Fig. 4	28 x 40 mm
13-935-05	Fig. 5	38 x 62 mm
1 pair of blades		



Caspar
Fig. 1

13-936-01	Retractor only (manual key for movement)
13-936-00	Complete set consisting of:
13-936-01	1 Retractor
13-938-58	1 Hook 58 mm
13-937-00	Key for retractor movement
	1 pair of each, 13-940-37 and 13-941-41



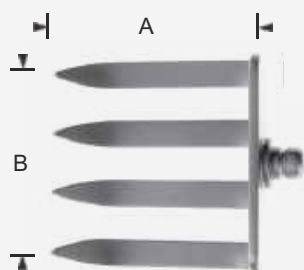
Key
13-937-00



Hook
13-938-38 38 mm
13-938-58 58 mm

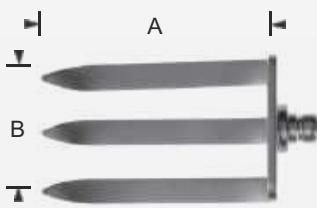
Caspar
Fig. 2

13-936-02	Retractor only (attached key for movement)
13-936-00	Complete set consisting of:
13-936-01	1 Retractor
13-938-38	1 Hook 38 mm
	1 pair of each, 13-941-37 to 13-941-57



Blade
Fig. 1

Fig.1	A	B
13-939-32	32 x 52 mm	1 piece
13-939-37	37 x 52 mm	1 piece
13-939-42	42 x 52 mm	1 piece
13-939-47	32 x 52 mm	1 piece
13-939-52	52 x 52 mm	1 piece
13-939-57	57 x 52 mm	1 piece
13-939-65	65 x 52 mm	1 piece
13-939-67	67 x 52 mm	1 piece



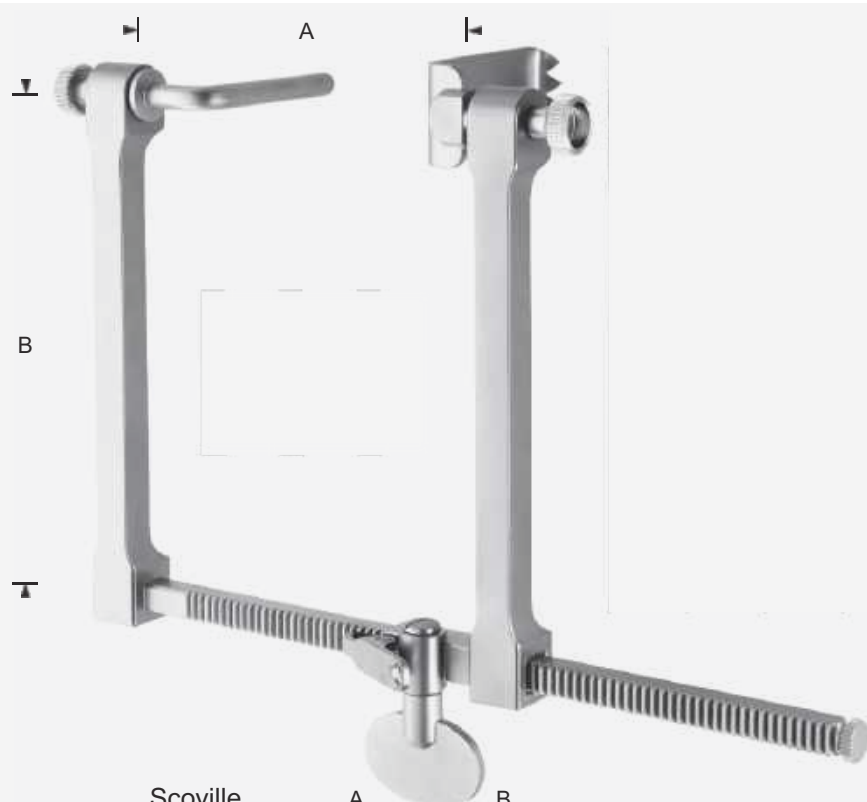
Blade
Fig. 2

Fig.2	A	B
13-940-32	32 x 52 mm	1 piece
13-940-37	37 x 52 mm	1 piece
13-940-42	42 x 52 mm	1 piece
13-940-47	32 x 52 mm	1 piece
13-940-52	52 x 52 mm	1 piece
13-940-57	57 x 52 mm	1 piece
13-940-65	65 x 52 mm	1 piece
13-940-67	67 x 52 mm	1 piece



Blade
Fig. 3

Fig.3	A	B
13-941-32	32 x 52 mm	1 piece
13-941-37	37 x 52 mm	1 piece
13-941-42	42 x 52 mm	1 piece
13-941-47	32 x 52 mm	1 piece
13-941-52	52 x 52 mm	1 piece
13-941-57	57 x 52 mm	1 piece
13-941-65	65 x 52 mm	1 piece
13-941-67	67 x 52 mm	1 piece



Scoville	A	B	
13-942-01	22 cm - 8 3/4"	14 cm - 5 1/2"	Retractor only
13-942-00	Complete set consisting of:		
13-942-01	1 Retractor		
	1 pair of each, 13-945-47 to 13-945-60		

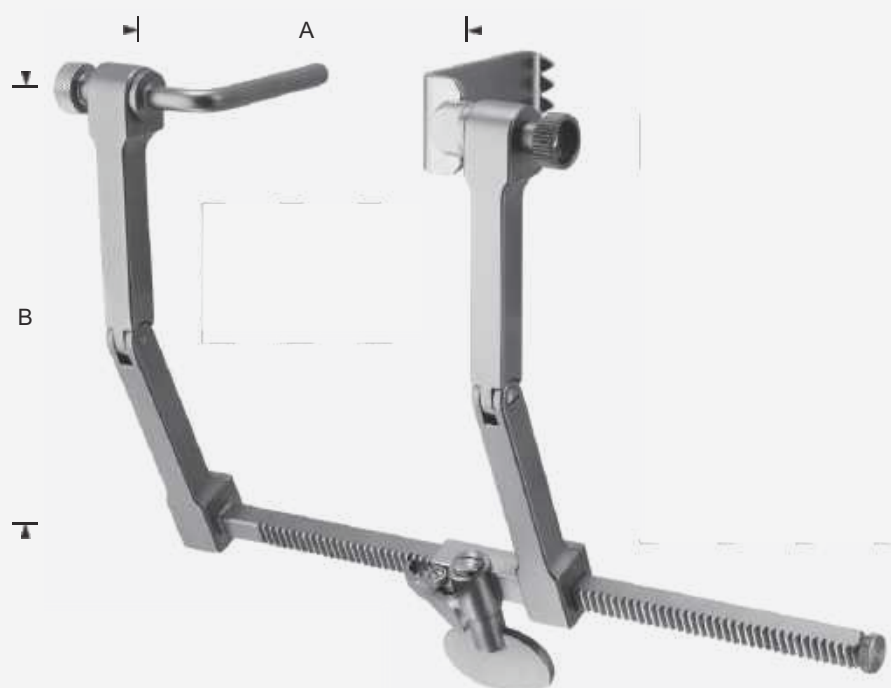


Fig. 1



Fig. 2

Scoville		
13-945-57	Fig. 1	57 mm
13-945-60	Fig. 2	60 x 25 mm
	1 pair of blades only	



Scoville - Haverfield	A	B	
13-943-01	22 cm - 8 3/4"	14 cm - 5 1/2"	Retractor only
13-943-00	Complete set consisting of:		
13-943-01	1 Retractor		
	1 pair of each, 13-945-57 to 13-945-60		



Scoville	A	B	
13-944-01	22 cm - 8 ¾"	14 cm - 5 ½"	Retractor only
13-944-00	Complete set consisting of:		
13-944-01	1 Retractor		
	1 pair of each, 13-947-48 to 13-947-78		



Scoville	
13-947-48	48 mm
13-947-58	58 mm
13-947-78	78 mm



Meyerdung	
13-956-48	48 x 25 mm
13-956-81	81 x 25 mm
13-956-90	90 x 50 mm



Scoville

13-945-57	57 mm
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13-945-83	83 mm
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Blunt, wide



Scoville

13-946-57	57 mm
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13-946-71	71 mm
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Sharp



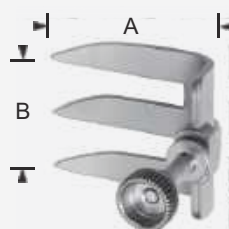
Scoville

13-947-48	48 mm
-----------	-------

13-947-58	58 mm
-----------	-------

13-947-78	78 mm
-----------	-------

With crossbar



Taylor/
Scoville

A B

13-948-45	45 x 39 mm
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13-948-50	50 x 35 mm
-----------	------------

3 prongs



Taylor/
Scoville

A B

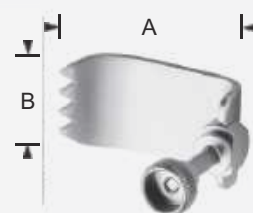
13-949-70	70 x 46 mm
-----------	------------

13-949-50	50 x 50 mm
-----------	------------

13-949-62	62 x 57 mm
-----------	------------

13-949-80	80 x 57 mm
-----------	------------

4 prongs



Hibbs

A B

13-950-48	48 x 19 mm
-----------	------------

13-950-58	58 x 51 mm
-----------	------------

13-950-51	51 x 26 mm
-----------	------------

13-950-60	60 x 38 mm
-----------	------------

13-950-65	65 x 26 mm
-----------	------------

13-950-74	74 x 38 mm
-----------	------------

13-951-74	74 x 64 mm
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13-951-78	78 x 50 mm
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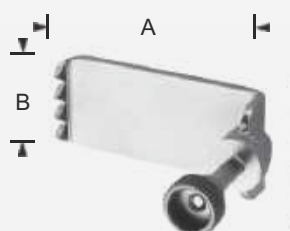
13-951-80	80 x 26 mm
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13-951-89	89 x 26 mm
-----------	------------

13-951-90	92 x 39 mm
-----------	------------

13-951-10	104 x 51 mm
-----------	-------------

13-952-10	105 x 26 mm
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Scoville

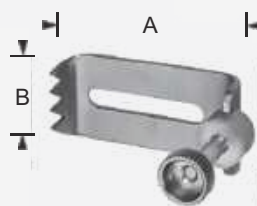
A B

13-953-60	60 x 25 mm
-----------	------------

13-953-78	78 x 51 mm
-----------	------------

13-954-78	78 x 29 mm
-----------	------------

13-954-91	91 x 26 mm
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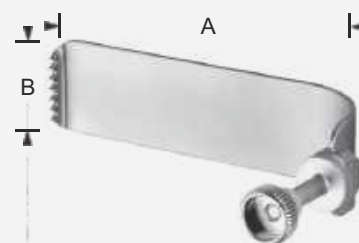


Epstein

A B

13-955-70	57 x 26 mm
-----------	------------

Fenestrated



Meyerding

A B

13-956-48	48 x 25 mm
-----------	------------

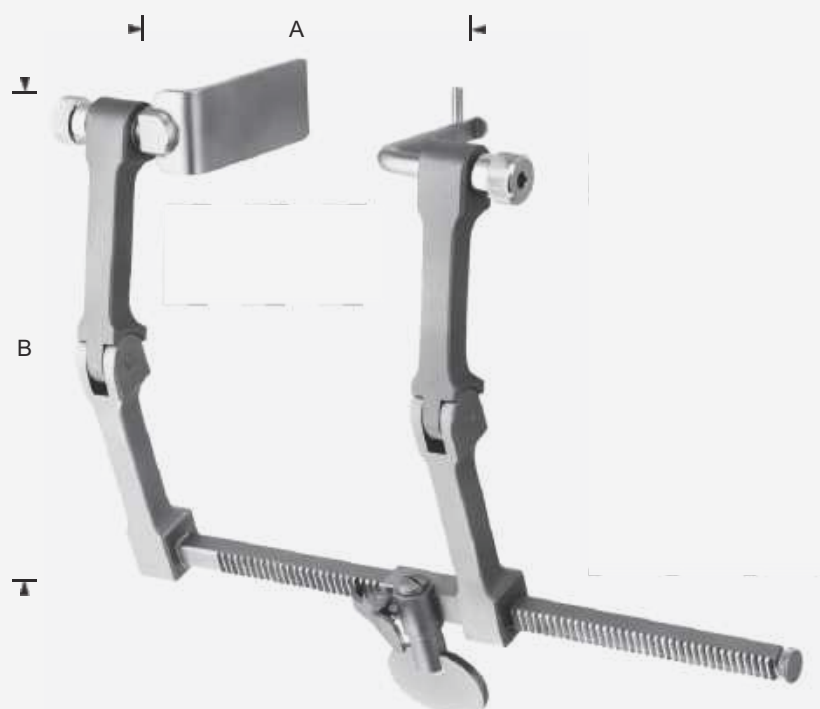
13-956-62	62 x 25 mm
-----------	------------

13-956-70	70 x 25 mm
-----------	------------

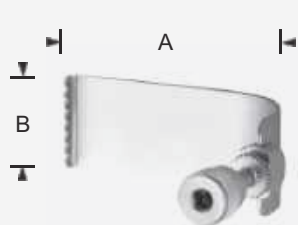
13-956-78	78 x 25 mm
-----------	------------

13-956-81	81 x 25 mm
-----------	------------

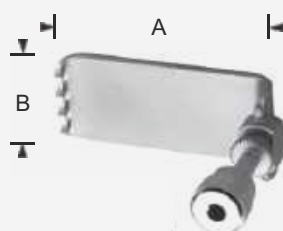
13-956-90	90 x 50 mm
-----------	------------



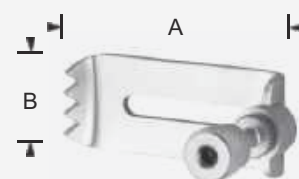
Scoville	A	B	
13-957-01	22 cm - 8 3/4"	14 cm - 5 1/2"	Retractor only
13-957-00	Complete set consisting of:		
13-957-01	1 Retractor		
13-959-60	1 blade		
13-959-58	1 blade		



Meyerding	A	B
13-958-48	48 x 25 mm	
13-958-62	62 x 25 mm	
13-958-70	70 x 25 mm	
13-958-78	78 x 25 mm	
13-958-81	81 x 25 mm	
13-958-90	90 x 50 mm	

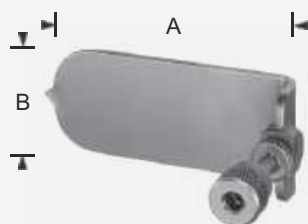


Scoville	A	B
13-959-60	60 x 25 mm	
13-959-78	78 x 29 mm	
13-959-78	78 x 51 mm	
13-959-91	91 x 26 mm	



Epstein	A	B
13-960-48	48 x 26 mm	

Fenestrated



Taylor

	A	B
13-961-80	80 x 31 mm	
13-961-10	105 x 42 mm	



Taylor

	A	B
13-962-60	60 mm	
13-962-70	70 mm	



Scoville

	A	B
13-963-57	57 mm	
13-963-77	77 mm	

Pointed



Scoville

	A	B
13-964-57	57 mm	
13-964-83	83 mm	

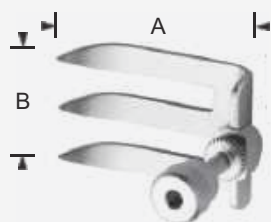
3 prongs



Scoville

	A	B
13-965-48	48 mm	
13-965-58	58 mm	
13-965-78	78 mm	

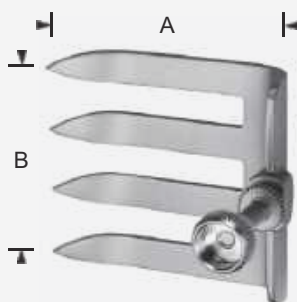
With crossbar



Scoville

	A	B
13-966-50	50 x 35 mm	
13-966-45	45 x 39 mm	

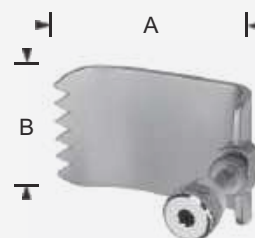
3 prongs



Scoville

	A	B
13-967-50	50 x 50 mm	
13-967-62	62 x 57 mm	
13-967-70	70 x 46 mm	
13-967-80	80 x 57 mm	

4 prongs



Hibbs

	A	B
13-968-48	48 x 19 mm	
13-968-58	58 x 51 mm	
13-968-51	51 x 26 mm	
13-968-60	60 x 38 mm	
13-968-65	65 x 26 mm	
13-968-74	74 x 38 mm	
13-969-74	74 x 64 mm	
13-969-78	78 x 50 mm	
13-969-80	80 x 26 mm	
13-969-89	89 x 26 mm	
13-969-90	92 x 39 mm	
13-969-10	104 x 51 mm	
13-970-10	105 x 26 mm	