

MIKRO CHIRURGIE  
MICRO SURGERY  
CIRUGIA MICRO  
CHIRURGIE MICRO

**ELCON**  
MEDICAL INSTRUMENTS GmbH



# **ELCON**

MIC 1 - MIC 82

## **MIKRO - CHIRURGIE MICRO SURGERY CHIRURGIA MICRO CHIRURGIE MICRO**



Grau dargestellte Artikelnummern bezeichnen „distributed by ELCON“ Produkte

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***ELCON***  
**MICRO**

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malleable

<b>HEIFETZ</b>	200mm
<b>342-220</b>	14 x 100mm
<b>342-221</b>	17 x 100mm
<b>342-222</b>	20 x 100mm



malleable

<b>HEIFETZ</b>	155mm
<b>342-210</b>	8 x 100mm
<b>342-211</b>	11 x 100mm
<b>342-212</b>	14 x 100mm
<b>342-213</b>	17 x 100mm



malleable

<b>SCOVILLE</b>	200mm
<b>342-230</b>	9 + 12mm
<b>342-231</b>	16 + 19mm



malleable

<b>AACHEN</b>	200mm
<b>342-261</b>	7 + 8mm
<b>342-262</b>	10 + 11mm
<b>342-263</b>	13 + 14mm
<b>342-264</b>	16 + 17mm
<b>342-265</b>	19 + 20mm
<b>342-266</b>	22 + 25mm



malleable

<b>CUSHING</b>	
<b>342-240</b>	13 + 19mm
	170mm
<b>342-242</b>	16 + 25mm
	200mm



malleable

<b>OLIVERCRONA</b>	180mm
straight	
<b>342-200</b>	7 + 9mm
<b>342-202</b>	11 + 13mm
<b>342-204</b>	15 + 18mm
<b>342-206</b>	18 + 22mm
bayonett	
<b>342-201</b>	7 + 9mm
<b>342-203</b>	11 + 13mm
<b>342-205</b>	15 + 18mm
<b>342-207</b>	18 + 22mm



malleable

<b>DAVIS</b>	
nickel-silver	
<b>342-250</b>	6 x 180mm
<b>342-251</b>	9 x 180mm
<b>342-252</b>	12 x 180mm
<b>342-253</b>	16 x 180mm
<b>342-254</b>	19 x 180mm
<b>342-255</b>	25 x 180mm
<b>342-256</b>	32 x 180mm
<b>342-257</b>	38 x 180mm



### BUNNEL

#### 412-500

Hand Drill with 3-jaw chuck and key, to fit any size of shanks up to  $\varnothing$  4,0mm, cannulated for taking wires and nails.

Length: 160mm / 6 1/4"

#### 412-501

Key for small 3-jaw chuck



#### 412-510

275mm, 10 1/4"

Spindel längsdurchbohrt, Spannweite bis 6,00mm  
Cannulated spindle for shanks up to 6,00mm  
huso barrenado oblongo, apertura hasta  $\varnothing$  6,00mm  
passage de fuseau et mâchoire jusqu'à 6,00mm



**HUDSON STANDARD**  
340-505



**HUDSON**  
340-538

Extension piece 100mm



**HUDSON Burr**  
340-530 Ø 9mm



**HUDSON Burr**  
340-532 Ø 14mm



**HUDSON Burr**  
340-534 Ø 16mm



**HUDSON Burr**  
340-536 Ø 22mm



**Mc KNEZIE Perforator Drill**  
340-540 Ø 13mm



**Mc KNEZIE Burr**  
340-545 Ø 16mm



**D'ERRICO Perforator and Enlarging Drill**  
340-580 Ø 16mm



**ADSON Twist Drill**  
340-560 Ø 2mm



**ADSON Perforating Burr**  
340-550 Ø 15mm



**CUSHING Perforator Drill**  
340-510 Ø 10mm  
340-512 Ø 12mm  
340-514 Ø 16mm



**CUSHING Burr**  
340-520 Ø 10mm  
340-522 Ø 15mm  
340-524 Ø 20mm



### 342-010-00

LEYLA Self-Retaining Retractor Set No. 1

consisting of:

- 342-001 1 fixation base for 1 arm
- 342-006 1 flexible arm
- 342-007 1 support for flat brain spatula



### 342-006

Flexible arm for attaching  
coupling heads 342-036 / 342-038  
and fixation bases 342-001 / 342-002 / 342-003

### 342-020-00

LEYLA Self-Retaining Retractor Set No. 2

consisting of:

- 342-002 1 fixation base for 2 arms
- 342-006 2 flexible arms
- 342-007 2 supports for flat brain spatulas



### 342-002

Fixation Clamp for 2 flexible arms 342-006  
for bone mounting



### 342-001

Fixation Clamp for 1 flexible arm 342-006,  
for bone mounting



### 342-003

Fixation Clamp for 1 flexible arm 342-006  
for mounting bars up to 16mm



### 342-007

Support for flat brain spatulas,  
fixation to flexible arm 342-006



### 342-008

Support for brain spatulas with round shaft  
up to Ø 5,5mm, fixation to  
flexible arm 342-006



**342-032**

Ball and socket joint for standard rails 10x25mm and 9x32mm



**342-034**

Holding rod, detachable, for fixation in ball and socket joint 342-032 and to hold the coupling head 342-036, 342-037 or 342-038



**342-036**

Coupling head to hold up to 5 arms (342-006)



**342-037**

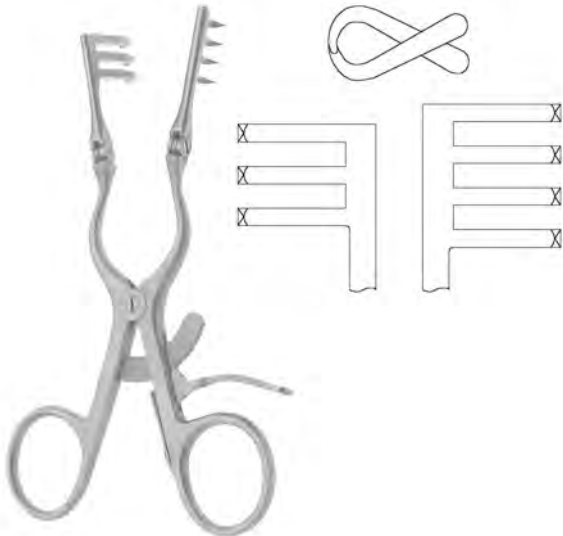
Coupling head to hold up to 1 arm (342-006), lateral open



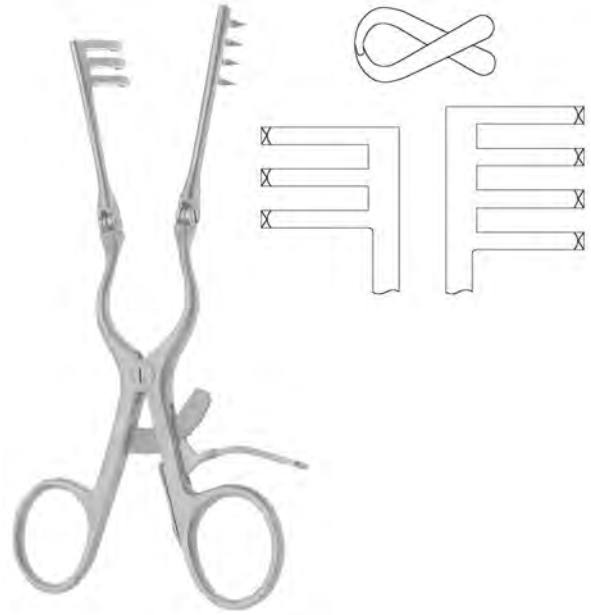
**342-038**

Coupling head to hold up to 1 arm (342-006)

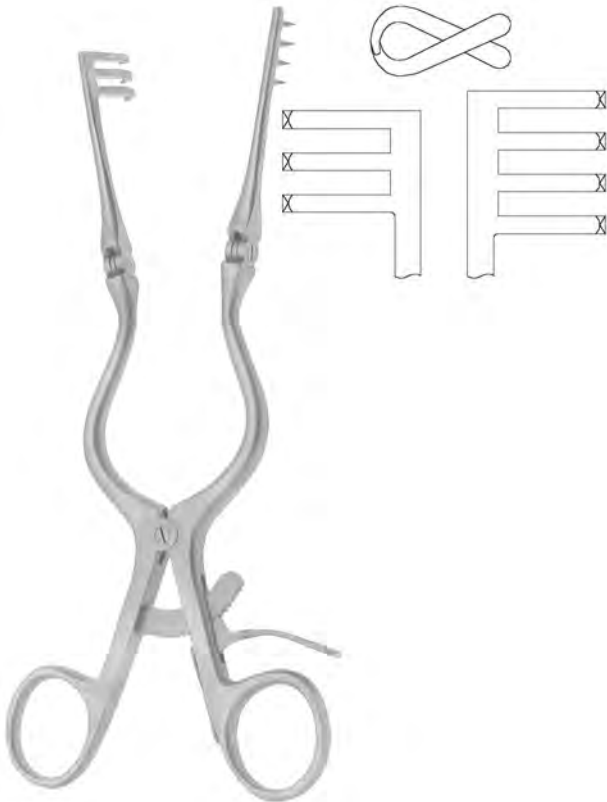




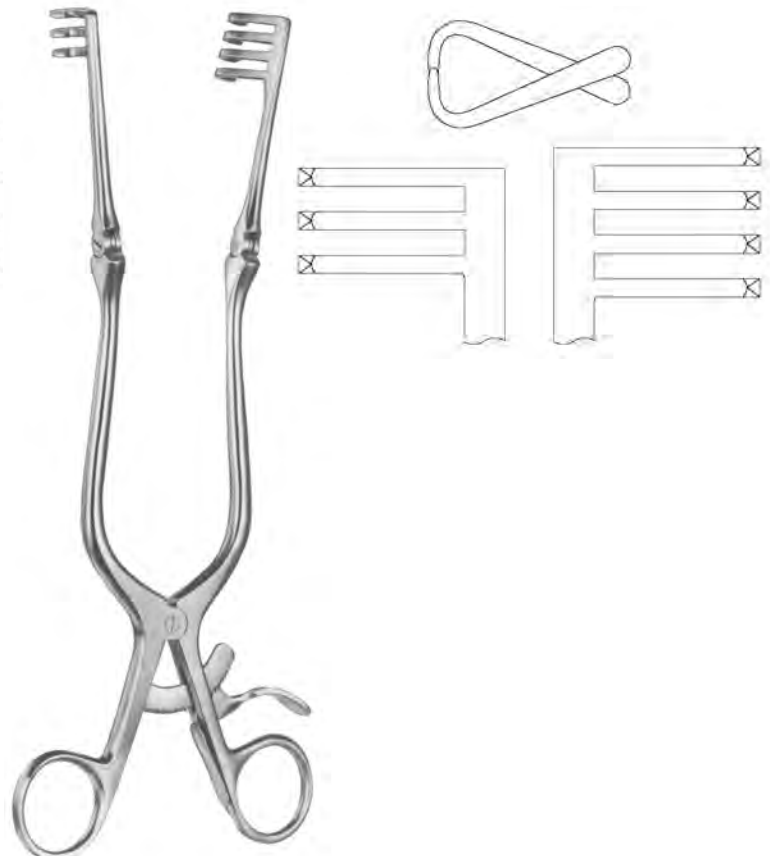
**CONE (ADSON-BABY)**  
**170-600** 135mm, 5 1/4" **170-601**  
 spitz, sharp stumpf, blunt  
 agudo, pointu romo, mousse



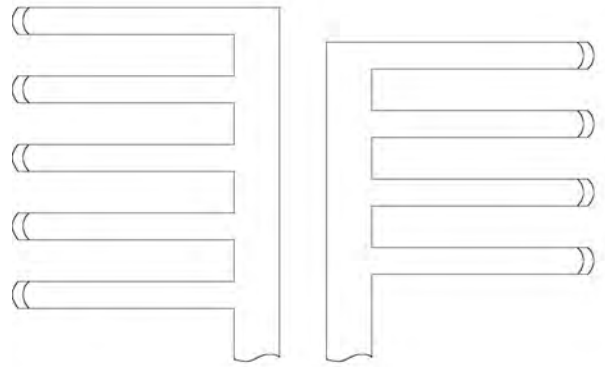
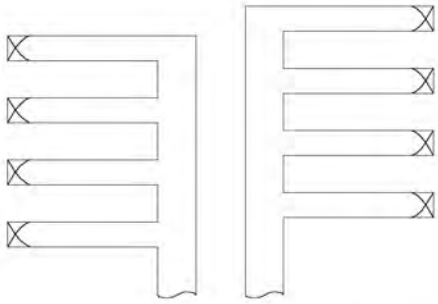
**BECKMANN**  
**170-602** 160mm, 6 1/4" **170-603**  
 spitz, sharp stumpf, blunt  
 agudo, pointu romo, mousse



**CONE**  
**170-610** 200mm, 8" **170-611**  
 spitz, sharp stumpf, blunt  
 agudo, pointu romo, mousse



**CONE**  
**170-612** 255mm, 10" **170-613**  
 spitz, sharp stumpf, blunt  
 agudo, pointu romo, mousse



**BECKMANN**

**170-640**  
 spitz, sharp  
 agudo, pointu

310mm, 11"

**170-641**  
 stumpf, blunt  
 romo, mousse

1/2

**ADSON**

**170-670**  
 spitz, sharp  
 agudo, pointu

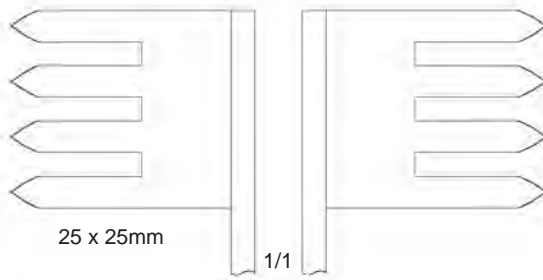
325mm, 12 7/8"

**170-671**  
 stumpf, blunt  
 romo, mousse

1/2



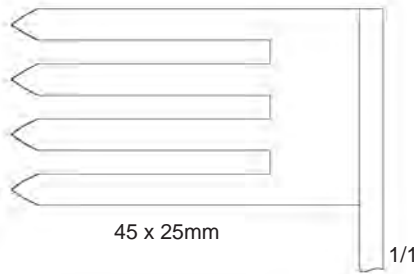
**BECKMANN-ADSON**  
 170-660 - 170-665



25 x 25mm

1/1

**170-660** 320mm, 12 5/8" spitz,sharp agudo,pointu  
**170-663** stumpf,blunt romo,mousse



45 x 25mm

1/1

**170-662** 320mm, 12 5/8" spitz,sharp agudo,pointu  
**170-665** stumpf,blunt romo,mousse



**BECKMANN-EATON**

**170-644** 325mm, 12 7/8" spitz,sharp agudo,pointu  
**170-645** stumpf,blunt romo,mousse



**MARKHAM-MEYERDUNG**

**343-540** 180 mm, 7"

Blatt links  
blade left side  
valva a la izquierda  
valve à gauche

**343-541**

Blatt rechts  
blade right side  
valva a la derecha  
valve à droite



**MEYERDUNG**

**343-530** blades 45 mm deep x 25 mm wide

**343-532** blades 55 mm deep x 25 mm wide

**343-533** blades 60 mm deep x 25 mm wide  
170 mm, 6 3/4"

# ELCON MICRO

WUNDSPREIZER FÜR DIE CERVICALE WIRBELSÄULE  
RETRACTORS FOR CERVICAL VERTEBRAL COLUMN  
SEPARADORES PARA LA COLUMNA CERVICAL  
ECARTEURS POUR COLONNE VERTEBRALE



**343-553-40**  
40 x 14mm



**343-553-45**  
45 x 14mm



**343-553-55**  
55 x 14mm



**343-553-50**  
50 x 14mm



**343-553-60**  
60 x 14mm



**343-563-40**  
40 x 14mm



**343-563-45**  
45 x 14mm



**343-563-55**  
55 x 14mm



**343-563-50**  
50 x 14mm



**343-563-60**  
60 x 14mm



**CLOWARD**  
**343-550-00** 160mm, 6 1/4"

Spreizer komplett mit 5 stumpfen Valven  
Spreader complete with 5 blunt blades  
Separador completo con 5 valvas romas  
Ecarteur complet avec 5 valves mousses

**CLOWARD**  
**343-551** 160mm, 6 1/4"

Spreizer ohne Valven  
Spreader without blades  
Separador sin valvas  
Ecarteur sans valves

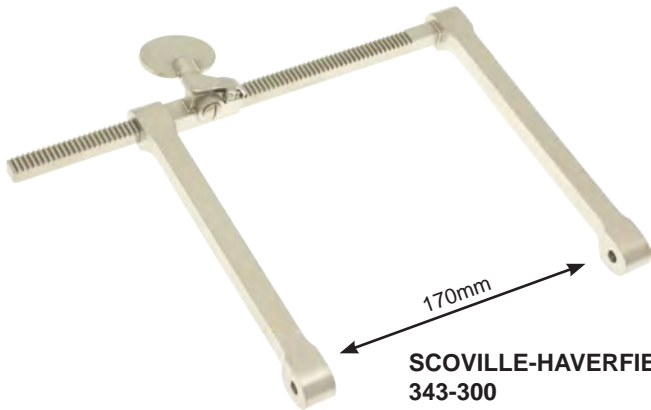


**CLOWARD**  
**343-560-00** 250mm, 10"

Spreizer komplett mit 5 spitzen Valven  
Spreader complete with 5 sharp blades  
Separador completo con 5 valvas agudas  
Ecarteur complet avec 5 valves pointues

**CLOWARD**  
**343-561** 250mm, 10"

Spreizer ohne Valven  
Spreader without blades  
Separador sin valvas  
Ecarteur sans valves



170mm

**SCOVILLE-HAVERFIELD**  
**343-300**



170mm

**SCOVILLE-HAVERFIELD**  
**343-301**



**SCOVILLE**  
**343-430** 51mm  
**343-431** 75mm



**SCOVILLE**  
**343-436** 51mm  
**343-437** 75mm



**343-440** 41 x 38mm  
**343-441** 66 x 48mm



**TAYLOR**  
**343-444** 44 x 38mm



**SCOVILLE**  
**343-450** 63 x 26mm  
**343-451** 63 x 51mm  
**343-452** 66 x 32mm  
**343-453** 89 x 26mm



**HIBBS**  
**343-471** 51 x 26mm  
**343-472** 51 x 51mm  
**343-473** 63 x 26mm  
**343-474** 63 x 38mm  
**343-475** 76 x 26mm  
**343-476** 76 x 38mm  
**343-477** 76 x 51mm  
**343-478** 101 x 26mm  
**343-479** 101 x 51mm



**MEYERDING**  
**343-481** 61 x 26mm  
**343-482** 67 x 26mm  
**343-485** 89 x 51mm



**TAYLOR**  
**343-445** 48 x 51mm  
**343-446** 63 x 63mm  
**343-447** 82 x 58mm



**TAYLOR**  
**343-490** 76 x 32mm  
**343-491** 101 x 32mm



**343-462-40** 40 x 23mm  
**343-462-45** 45 x 23mm  
**343-462-50** 50 x 23mm  
**343-462-55** 55 x 23mm  
**343-462-60** 60 x 23mm

Mediale Valven mit Kugelschnellverschluss  
Medial valves with ball snap closure  
Valvas medianas con cierre rápido  
Valves médianes avec enclenchement à bille



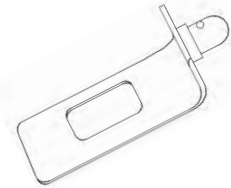
**343-460-40** 40 x 23mm  
**343-460-45** 45 x 23mm  
**343-460-50** 50 x 23mm  
**343-460-55** 55 x 23mm  
**343-460-60** 60 x 23mm

Laterale Valven mit Kugelschnellverschluss für selfretaining retractors  
Valvas laterales con cierre rápido esférico, para separadores  
Valves latérales avec enclenchement à bille, pour écarteurs



**343-466-40** 40 x 23mm  
**343-466-45** 45 x 23mm  
**343-466-50** 50 x 23mm  
**343-466-55** 55 x 23mm  
**343-466-60** 60 x 23mm

Stumpfe Valven mit Kugelschnellverschluss  
Blunt valves with ball snap closure  
Valvas romas con cierre rápido esférico  
Valves mousses avec enclenchement à bille



**343-468-50** 50 x 25mm  
**343-468-60** 60 x 25mm

Stumpfe Valven mit Kugelschnellverschluss zur Spanentnahme am Beckenkamm  
Blunt valves with ball snap closure for harvesting of the fusion graft for the iliac crest  
Valvas romas con cierre rápido esférico  
Valves mousses avec enclenchement à bille



**343-465-25T** 25 x 24mm  
**343-465-30T** 30 x 24mm  
**343-465-35T** 35 x 24mm  
**343-465-40T** 40 x 24mm  
**343-465-45T** 45 x 24mm  
**343-465-50T** 50 x 24mm  
**343-465-55T** 55 x 24mm  
**343-465-60T** 60 x 24mm  
**343-465-65T** 65 x 24mm  
**343-465-70T** 70 x 24mm

Laterale Valven aus Titan, mit Kugelschnellverschluss, für Wundspreizer  
Lateral valves of Titanium, with ball snap closure  
Valvas laterales de Titanio, con cierre rápido esférico  
Valves latérales Titane avec enclenchement à bille, pour écarteurs



**343-464-25T** 25 x 24mm  
**343-464-30T** 30 x 24mm  
**343-464-35T** 35 x 24mm  
**343-464-40T** 40 x 24mm  
**343-464-45T** 45 x 24mm  
**343-464-50T** 50 x 24mm  
**343-464-55T** 55 x 24mm  
**343-464-60T** 60 x 24mm  
**343-464-65T** 65 x 24mm  
**343-464-70T** 70 x 24mm

Mediale Valven aus Titan, mit Kugelschnellverschluss, für Wundspreizer  
Medial valves of Titanium, with ball snap closure  
Valvas medianas de Titanio, con cierre rápido esférico  
Valves médianes Titane avec enclenchement à bille



**343-469-30T** 30 x 24mm  
**343-469-35T** 35 x 24mm  
**343-469-40T** 40 x 24mm  
**343-469-45T** 45 x 24mm  
**343-469-50T** 50 x 24mm  
**343-469-55T** 55 x 24mm  
**343-469-60T** 60 x 24mm  
**343-469-65T** 65 x 24mm  
**343-469-70T** 70 x 24mm  
**343-469-75T** 75 x 24mm

**343-334**  
130mm

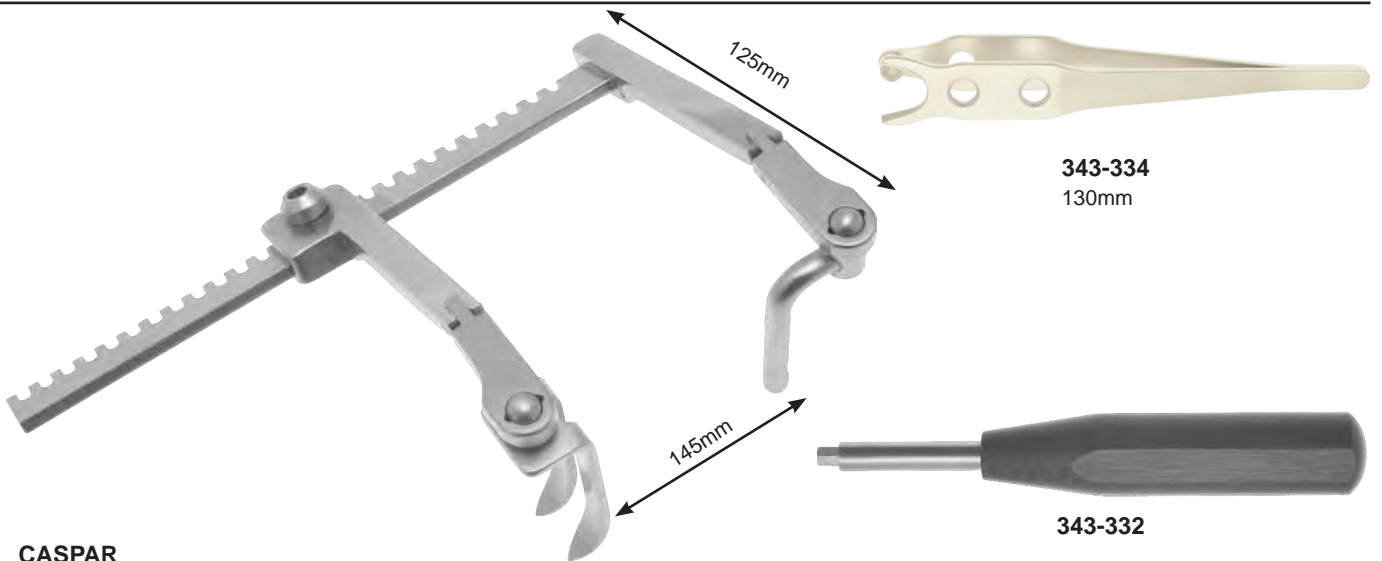
Pinzette zum wechseln der Valven mit Kugelschnellverschluss  
Blade ejector for changing the blades with ball snap closure  
Pinza para cambiar las valvas con sistema bola de aseguramiento rápido  
Pince pour changer les valves munies du système de verrouillage rapide à billes





**WUNDSPREIZER FÜR DIE WIRBELSÄULE  
RETRACTORS FOR VERTEBRAL COLUMN  
SEPARADORES PARA LA COLUMNA VERTEBRAL  
ECARTEURS POUR COLONNE VERTEBRALE**

**ELCON**  
**MICRO**



**CASPAR  
343-330-00**

Wundspreizer mit Gelenkarmen und Kugelschnellverschluss, für Laminektomie und Hemi-Laminektomie, komplett, bestehend aus:

- 343-331** 1 Rahmen inklusive **343-332** 1 Drehschlüssel
- 343-410-38** 1 Haken 38mm
- 343-412-37** 1 Seitenvalve 37 x 22mm
- 343-412-42** 1 Seitenvalve 42 x 22mm
- 343-412-47** 1 Seitenvalve 47 x 22mm
- 343-412-52** 1 Seitenvalve 52 x 22mm
- 343-412-57** 1 Seitenvalve 57 x 22mm

Separador con brazos de articulación y aseguramiento rápido de sistema bola, para laminectomia y hemilactomia, completo compuesto de:

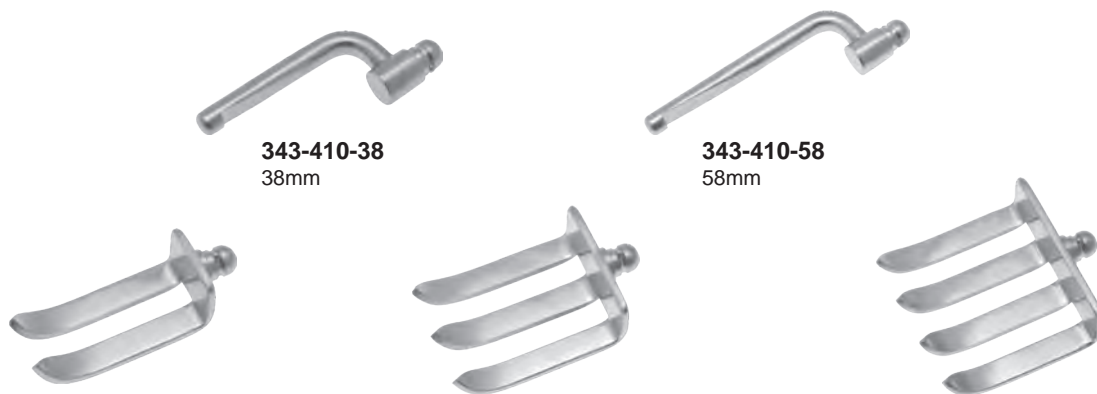
- 343-331** 1 Cuadro con **343-332** 1 Llave
- 343-410-38** 1 Separador 38mm
- 343-412-37** 1 Valva lateral 37 x 22mm
- 343-412-42** 1 Valva lateral 43 x 22mm
- 343-412-47** 1 Valva lateral 47 x 22mm
- 343-412-52** 1 Valva lateral 52 x 22mm
- 343-412-57** 1 Valva lateral 57 x 22mm

Self-retaining retractor with articulated arms and ball snap closure, for laminectomy and hemi-laminectomy, complete, consisting of:

- 343-331** 1 Frame including **343-332** 1 Key
- 343-410-38** 1 Hook 38mm
- 343-412-37** 1 Lateral blade 37 x 22mm
- 343-412-42** 1 Lateral blade 43 x 22mm
- 343-412-47** 1 Lateral blade 47 x 22mm
- 343-412-52** 1 Lateral blade 52 x 22mm
- 343-412-57** 1 Lateral blade 57 x 22mm

Ecarteur avec bras articulés, enclenchement à billes, pour laminectomie et hémi laminectomie, complet composé de:

- 343-331** 1 Cadre avec **343-332** 1 Clef
- 343-410-38** 1 Crochet 38mm
- 343-412-37** 1 Valve laterale 37 x 22mm
- 343-412-42** 1 Valve laterale 43 x 22mm
- 343-412-47** 1 Valve laterale 47 x 22mm
- 343-412-52** 1 Valve laterale 52 x 22mm
- 343-412-57** 1 Valve laterale 57 x 22mm



- 343-412-32** 32 x 22mm
- 343-412-37** 37 x 22mm
- 343-412-42** 42 x 22mm
- 343-412-47** 47 x 22mm
- 343-412-52** 52 x 22mm
- 343-412-57** 57 x 22mm
- 343-412-62** 62 x 22mm
- 343-412-67** 67 x 22mm

- 343-413-32** 32 x 37mm
- 343-413-37** 37 x 37mm
- 343-413-42** 42 x 37mm
- 343-413-47** 47 x 37mm
- 343-413-52** 52 x 37mm
- 343-413-57** 57 x 37mm
- 343-413-62** 62 x 37mm
- 343-413-67** 67 x 37mm

- 343-414-32** 32 x 52mm
- 343-414-37** 37 x 52mm
- 343-414-42** 42 x 52mm
- 343-414-47** 47 x 52mm
- 343-414-52** 52 x 52mm
- 343-414-57** 57 x 52mm
- 343-414-62** 62 x 52mm
- 343-414-67** 67 x 52mm

**343-340-00**  
 165mm, 6 1/2"

Wundspreizer mit Gelenkarmen und Kugelschnellverschluß, komplett, bestehend aus:

- 343-341** 1 Sperrer
- 343-466-45** 1 stumpfen Valve 45 x 23mm
- 343-466-50** 1 stumpfen Valve 50 x 23mm
- 343-466-55** 1 stumpfen Valve 55 x 23mm
- 343-466-60** 1 stumpfen Valve 60 x 23mm
- 343-466-65** 1 stumpfen Valve 65 x 23mm

Self-retaining retractor with articulated arms and ball snap closure, complete, consisting of:

- 343-341** 1 Spreader
- 343-466-45** 1 Blunt valve 45 x 23mm
- 343-466-50** 1 Blunt valve 50 x 23mm
- 343-466-55** 1 Blunt valve 55 x 23mm
- 343-466-60** 1 Blunt valve 60 x 23mm
- 343-466-65** 1 Blunt valve 65 x 23mm

Separador con brazos articulados y cierre rápido esférico, completo, compuesto de:

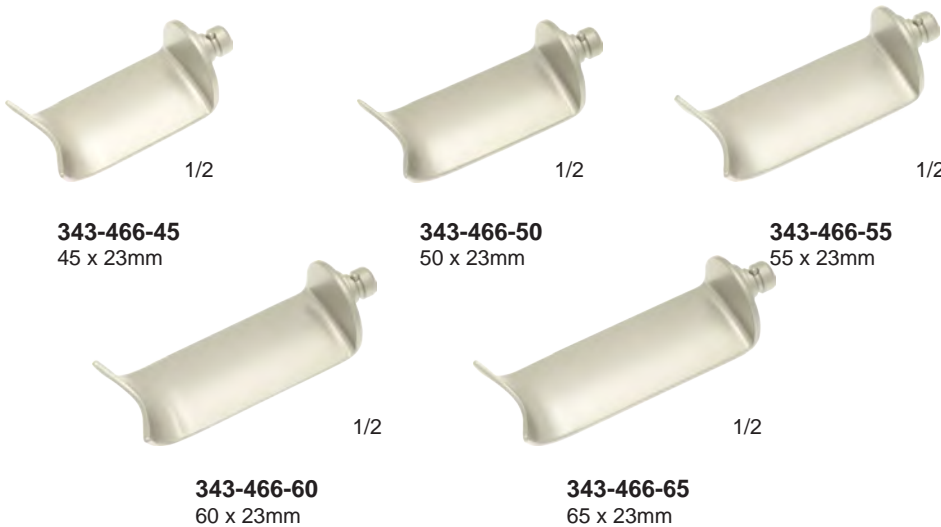
- 343-341** 1 Separador
- 343-466-45** 1 Valva roma 45 x 23mm
- 343-466-50** 1 Valva roma 50 x 23mm
- 343-466-55** 1 Valva roma 55 x 23mm
- 343-466-60** 1 Valva roma 60 x 23mm
- 343-466-65** 1 Valva roma 65 x 23mm

Ecarteur avec bras articulés, enclenchement à billes, complet composé de:

- 343-341** 1 Ecarteur
- 343-466-45** 1 Valve, mousse 45 x 23mm
- 343-466-50** 1 Valve, mousse 50 x 23mm
- 343-466-55** 1 Valve, mousse 55 x 23mm
- 343-466-60** 1 Valve, mousse 60 x 23mm
- 343-466-65** 1 Valve, mousse 65 x 23mm



**CASPAR**  
**343-340-00**  
 165mm, 6 1/2"



**343-390-00**  
 105mm, 4 1/8"

Wundspreizer mit Gelenkarmen und Kugelschnellverschluß, komplett, bestehend aus:

- 343-391** 1 Sperrer
- 343-466-45** 1 stumpfen Valve 45 x 23mm
- 343-466-50** 1 stumpfen Valve 50 x 23mm
- 343-466-55** 1 stumpfen Valve 55 x 23mm
- 343-466-60** 1 stumpfen Valve 60 x 23mm
- 343-466-65** 1 stumpfen Valve 65 x 23mm

Self-retaining retractor with articulated arms and ball snap closure, complete, consisting of:

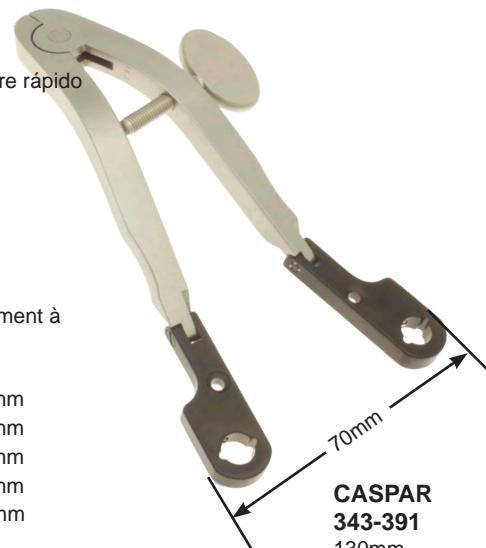
- 343-391** 1 Spreader
- 343-466-45** 1 Blunt valve 45 x 23mm
- 343-466-50** 1 Blunt valve 50 x 23mm
- 343-466-55** 1 Blunt valve 55 x 23mm
- 343-466-60** 1 Blunt valve 60 x 23mm
- 343-466-65** 1 Blunt valve 65 x 23mm

Separador con brazos articulados y cierre rápido esférico, completo, compuesto de:

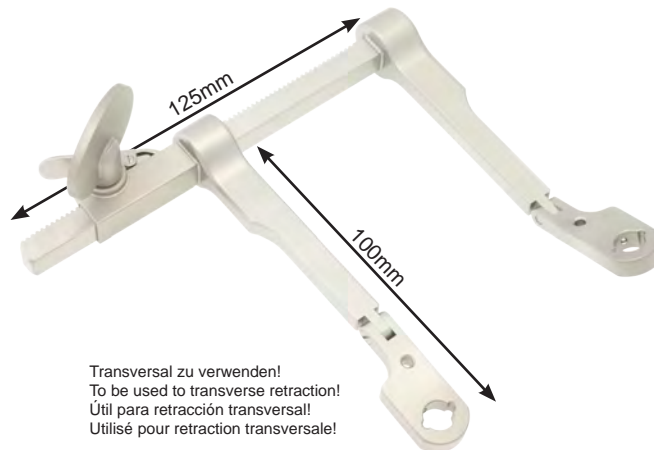
- 343-391** 1 Separador
- 343-466-45** 1 Valva roma 45 x 23mm
- 343-466-50** 1 Valva roma 50 x 23mm
- 343-466-55** 1 Valva roma 55 x 23mm
- 343-466-60** 1 Valva roma 60 x 23mm
- 343-466-65** 1 Valva roma 65 x 23mm

Ecarteur avec bras articulés, enclenchement à billes, complet composé de:

- 343-391** 1 Ecarteur
- 343-466-45** 1 Valve, mousse 45 x 23mm
- 343-466-50** 1 Valve, mousse 50 x 23mm
- 343-466-55** 1 Valve, mousse 55 x 23mm
- 343-466-60** 1 Valve, mousse 60 x 23mm
- 343-466-65** 1 Valve, mousse 65 x 23mm



**CASPAR**  
**343-391**  
 130mm



**343-460-40**  
40 x 23mm



**343-460-45**  
45 x 23mm



**343-460-50**  
50 x 23mm



**343-460-55**  
55 x 23mm



**343-460-60**  
60 x 23mm



**343-462-40**  
40 x 23mm



**343-462-45**  
45 x 23mm



**343-462-50**  
50 x 23mm



**343-462-55**  
55 x 23mm



**343-462-60**  
60 x 23mm

**CASPAR**  
**343-322-00**

Wundspreizer mit Gelenkarmen und Kugelschnellverschluss, komplett, bestehend aus:

- 343-323** 1 Rahmen
- 343-462-40** 1 medialen Valve 40 x 23mm
- 343-462-45** 1 medialen Valve 45 x 23mm
- 343-462-50** 1 medialen Valve 50 x 23mm
- 343-462-55** 1 medialen Valve 55 x 23mm
- 343-462-60** 1 medialen Valve 60 x 23mm
- 343-460-40** 1 lateralen Valve 40 x 23mm
- 343-460-45** 1 lateralen Valve 45 x 23mm
- 343-460-50** 1 lateralen Valve 50 x 23mm
- 343-460-55** 1 lateralen Valve 55 x 23mm
- 343-460-60** 1 lateralen Valve 60 x 23mm

Self-retaining retractor with articulated arms and ball snap closure, complete, consisting of:

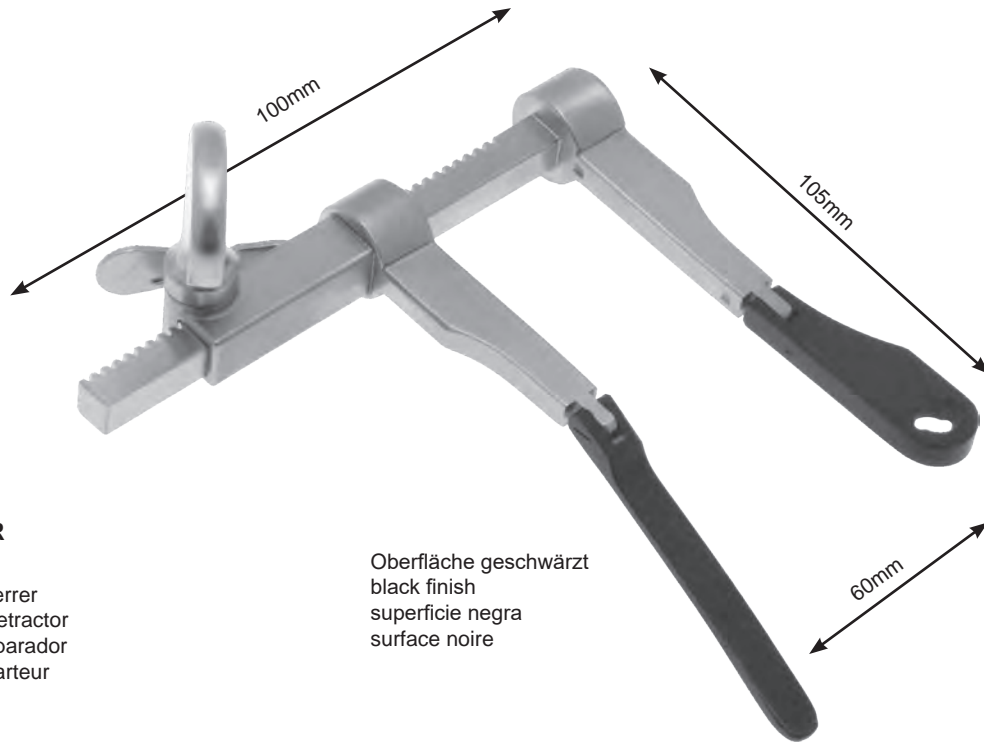
- 343-323** 1 Frame
- 343-462-40** 1 Medial valve 40 x 23mm
- 343-462-45** 1 Medial valve 45 x 23mm
- 343-462-50** 1 Medial valve 50 x 23mm
- 343-462-55** 1 Medial valve 55 x 23mm
- 343-462-60** 1 Medial valve 60 x 23mm
- 343-460-40** 1 Lateral valve 40 x 23mm
- 343-460-45** 1 Lateral valve 45 x 23mm
- 343-460-50** 1 Lateral valve 50 x 23mm
- 343-460-55** 1 Lateral valve 55 x 23mm
- 343-460-60** 1 Lateral valve 60 x 23mm

Separador con brazos articulados y cierre rápido esférico, completo, compuesto de:

- 343-323** 1 Cuadro
- 343-462-40** 1 Valva mediana 40 x 23mm
- 343-462-45** 1 Valva mediana 45 x 23mm
- 343-462-50** 1 Valva mediana 50 x 23mm
- 343-462-55** 1 Valva mediana 55 x 23mm
- 343-462-60** 1 Valva mediana 60 x 23mm
- 343-460-40** 1 Valva lateral 40 x 23mm
- 343-460-45** 1 Valva lateral 45 x 23mm
- 343-460-50** 1 Valva lateral 50 x 23mm
- 343-460-55** 1 Valva lateral 55 x 23mm
- 343-460-60** 1 Valva lateral 60 x 23mm

Ecarteur avec bras articulés, enclenchement à billes, complet composé de:

- 343-323** 1 Cadre
- 343-462-40** 1 Valve médiane 40 x 23mm
- 343-462-45** 1 Valve médiane 45 x 23mm
- 343-462-50** 1 Valve médiane 50 x 23mm
- 343-462-55** 1 Valve médiane 55 x 23mm
- 343-462-60** 1 Valve médiane 60 x 23mm
- 343-460-40** 1 Valve latérale 40 x 23mm
- 343-460-45** 1 Valve latérale 45 x 23mm
- 343-460-50** 1 Valve latérale 50 x 23mm
- 343-460-55** 1 Valve latérale 55 x 23mm
- 343-460-60** 1 Valve latérale 60 x 23mm



**CASPAR**  
**343-371**  
Gegensperrer  
Counter-retractor  
contra separador  
contre écarteur

Oberfläche geschwärzt  
black finish  
superficie negra  
surface noire



Blattlänge  
Length of the blade  
Longitud des valvas  
Longueur des valves

- 343-402-40** 40mm
- 343-402-45** 45mm
- 343-402-50** 50mm
- 343-402-55** 55mm
- 343-402-60** 60mm
- 343-402-65** 65mm
- 343-402-70** 70mm

Mediale Valven, Oberfläche geschwärzt  
Medial blades, black finish  
Valvas medianas, superficie negra  
Valves médianes, surface noire



Blattlänge  
Length of the blade  
Longitud des valvas  
Longueur des valves

- 343-400-35** 35mm
- 343-400-40** 40mm
- 343-400-45** 45mm
- 343-400-50** 50mm
- 343-400-55** 55mm
- 343-400-60** 60mm
- 343-400-65** 65mm
- 343-400-75** 75mm
- 343-400-85** 85mm

Laterale Valven mit Kugelverschluss,  
Oberfläche geschwärzt  
Lateral blades with snap lock,  
black finish  
Valvas laterales con cierre rápido  
esférico, superficie negra  
Valves latérales avec enclenchement à  
bille, surface noire



Oberfläche geschwärzt  
Surface black-finish  
Superficie negra  
Surface noire

**CASPAR**

**343-680-40 - 343-680-85**

150mm, 6"

**343-680-40** A = 40mm

**343-680-45** A = 45mm

**343-680-50** A = 50mm

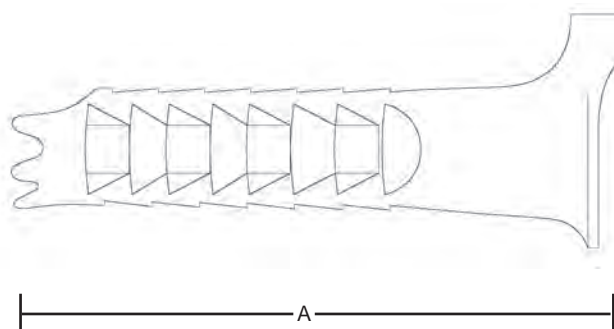
**343-680-55** A = 55mm

**343-680-60** A = 60mm

**343-680-65** A = 65mm

**343-680-75** A = 75mm

**343-680-85** A = 85mm



ALLE HIER ABGEBILDETEN MC CULLOCH INSTRUMENTE SIND KERAMIK BESCHICHTET  
 ALL MC CULLOCH INSTRUMENTS HERE ARE CERAMIC COATED  
 TODOS ESTOS INSTRUMENTOS DE MC CULLOCH SON CON REVESTIMIENTO CERAMICO  
 TOUS LES INSTRUMENTS MC CULLOCH REPRESENTES ICI ONT UNE COUCHE CERAMIQUE



### MC CULLOCH

**343-611**

Rahmen alleine mit Gelenkarmen, maximale Spreizweite 85mm  
 Frame only with hinged arms, maximale opening 85mm  
 Cuadro solo con brazos movibles, extension maxima 85mm  
 Cadre seul, avec bras articulés, écartement maximal 85mm

### MC CULLOCH

**343-612**

Rahmen alleine mit starren Armen, maximale Spreizweite 85mm  
 Frame only with rigid arms, maximale opening 85mm  
 Cuadro solo con brazos rígidos, extension maxima 85mm  
 Cadre seul, avec bras rigides, écartement maximal 85mm



### MC CULLOCH

schmale Valve  
 narrow muscle blade  
 valvula estrecha  
 valve étroite

**343-613-30** 30x20mm  
**343-613-40** 40x20mm  
**343-613-50** 50x20mm  
**343-613-60** 60x20mm  
**343-613-70** 70x20mm  
**343-613-80** 80x20mm



### MC CULLOCH

breite Valve  
 wide muscle blade  
 valvula ancha  
 valve large

**343-614-30** 30x27mm  
**343-614-40** 40x27mm  
**343-614-50** 50x27mm  
**343-614-60** 60x27mm  
**343-614-70** 70x27mm  
**343-614-80** 80x27mm



### MC CULLOCH

extra schmale Valve  
 extra narrow muscle blade  
 valvula extra estrecha  
 valve extra-étroite

**343-617-30** 30x17mm  
**343-617-40** 40x17mm  
**343-617-50** 50x17mm  
**343-617-60** 60x17mm  
**343-617-70** 70x17mm  
**343-617-80** 80x17mm



### MC CULLOCH

Haken  
 hook  
 gancho  
 crochet

**343-615-20** 20mm  
**343-615-30** 30mm  
**343-615-40** 40mm  
**343-615-50** 50mm  
**343-615-60** 60mm  
**343-615-70** 70mm



### MC CULLOCH

Mehrzahl-Haken  
 multiple toothed hook  
 gancho con varios dientes  
 crochet à plusieurs dents

**343-616-20** 20mm  
**343-616-30** 30mm  
**343-616-40** 40mm  
**343-616-50** 50mm  
**343-616-60** 60mm  
**343-616-70** 70mm



### MC CULLOCH

verjüngte Valve  
 tapered muscle blade  
 valvula conica  
 valve diminuée

**343-618-40** 40x27mm



**CASPAR**  
**343-381L**

links, Zahnstange 110mm  
 left, toothed bar 110mm

**343-383L**

links, Zahnstange 130mm  
 left, toothed bar 130mm



**CASPAR**  
**343-381R**

rechts, Zahnstange 110mm  
 right, toothed bar 110mm

**343-383R**

rechts, Zahnstange 130mm  
 right, toothed bar 130mm



**CASPAR**  
**343-385L**  
**343-385R**

links / left  
 rechts / right



**CASPAR**  
**343-380L-00**

Set bestehend aus:  
 Set consisting of:

- 343-381L** links, Zahnstange 110mm  
left, toothed bar 110mm
- 343-385L** links / left
- 343-386** Schraubendreher  
screw driver
- 343-388** Ø 1,7mm, Bohrtiefe 8mm  
Ø 1,7mm, depth 8mm
- 343-388-16** Ø 16mm

**CASPAR**  
**343-380R-00**

Set bestehend aus:  
 Set consisting of:

- 343-381R** rechts, Zahnstange 110mm  
right, toothed bar 110mm
- 343-385R** rechts / right
- 343-386** Schraubendreher  
screw driver
- 343-388** Ø 1,7mm, Bohrtiefe 8mm  
Ø 1,7mm, depth 8mm
- 343-388-16** Ø 16mm



**CASPAR**  
**343-386**  
200mm



**CASPAR**  
**343-387**    Ø 1,7mm, Bohrtiefe 14mm  
                  Ø 1,7mm, depth 14mm  
**343-388**    Ø 1,7mm, Bohrtiefe 8mm  
                  Ø 1,7mm, depth 8mm



**CASPAR**  
**343-388-12**    Tiefe 12mm  
                          depth 12mm  
**343-388-14**    Tiefe 14mm  
                          depth 14mm  
**343-388-16**    Tiefe 16mm  
                          depth 16mm  
**343-388-18**    Tiefe 18mm  
                          depth 18mm



CLOWARD	Länge length longitud longueur	Spreizweite spreading width extensión écartement
343-505	160mm	15mm



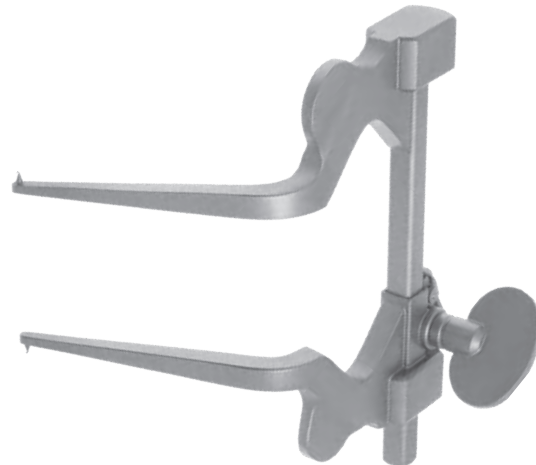
CLOWARD	Länge length longitud longueur	Spreizweite spreading width extensión écartement
343-509	130mm	15mm



CLOWARD	Länge length longitud longueur	Spreizweite spreading width extensión écartement
343-510	150mm	17mm



CLOWARD	Armlänge length of arm longitud del brazo longueur bras	Spreizweite spreading width extensión écartement
343-511	70mm	80mm



CLOWARD	Armlänge length of arm longitud del brazo longueur bras	Spreizweite spreading width extensión écartement
343-513	85mm	70mm
343-514	100mm	70mm



# ELCON

## MICRO

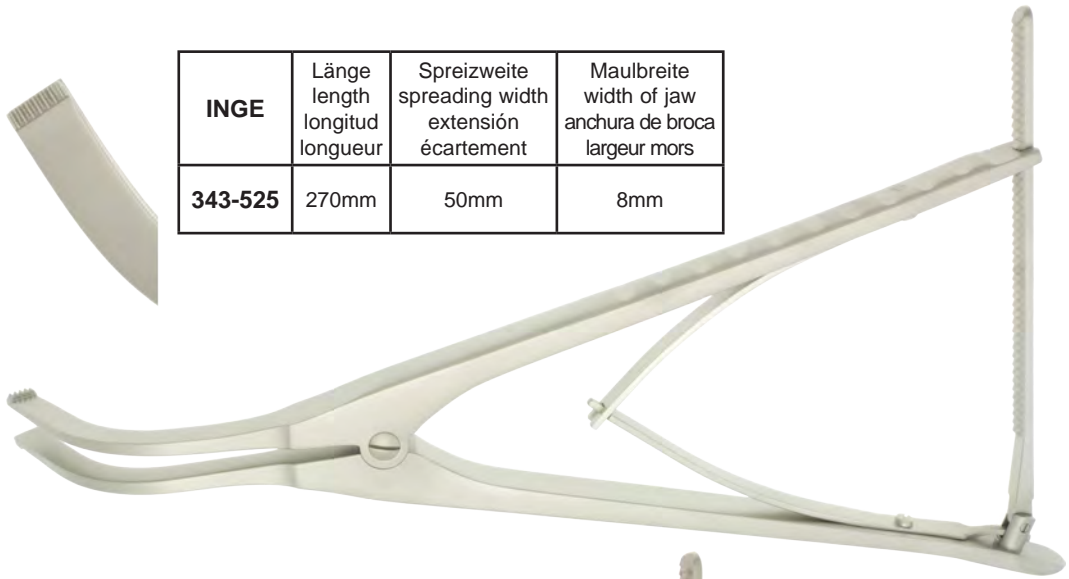
WIRBELKÖRPERSPREIZER  
 LAMINA SPREADERS  
 SEPARADORES PARA CUERPOS VERTEBRALES  
 ECARTEURS POUR CORPS VERTEBRAUX



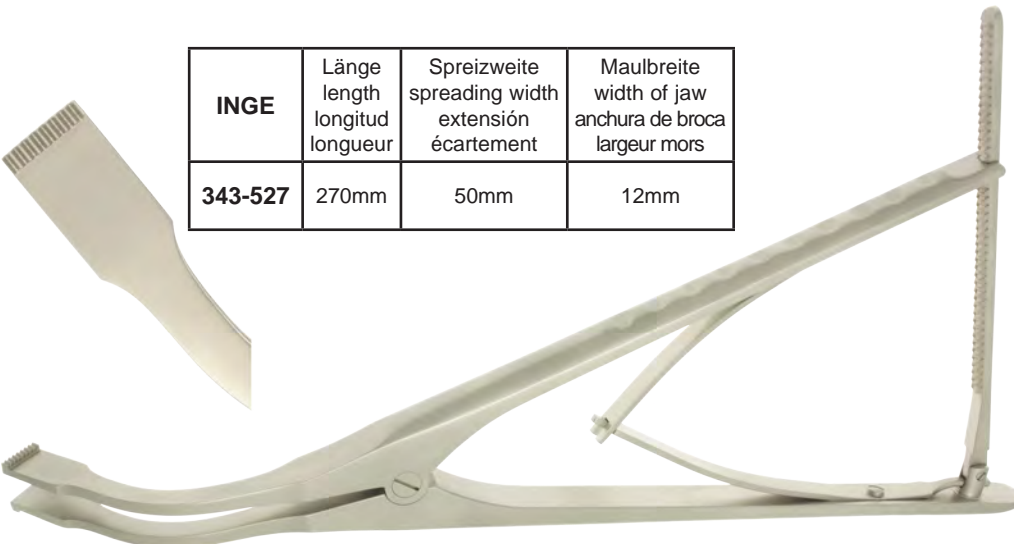
INGE	Länge length longitud longueur	Spreizweite spreading width extensión écartement	Maulbreite width of jaw anchura de broca largeur mors
<b>343-520</b>	160mm	38mm	6mm



INGE	Länge length longitud longueur	Spreizweite spreading width extensión écartement	Maulbreite width of jaw anchura de broca largeur mors
<b>343-521</b>	160mm	38mm	6mm



INGE	Länge length longitud longueur	Spreizweite spreading width extensión écartement	Maulbreite width of jaw anchura de broca largeur mors
<b>343-525</b>	270mm	50mm	8mm



INGE	Länge length longitud longueur	Spreizweite spreading width extensión écartement	Maulbreite width of jaw anchura de broca largeur mors
<b>343-527</b>	270mm	50mm	12mm

**LOVE**

Nervenwurzelretractor, Gesamtlänge 210mm  
nerve root retractor, total length 210mm

**343-143-03** 3mm

**343-143-05** 5mm



**SCOVILLE**

Nervenwurzelretractor, Gesamtlänge 230mm  
nerve root retractor, total length 230mm

**343-150** 8mm



**CASPAR**

Nervenwurzelretractor, Gesamtlänge 240mm  
nerve root retractor, total length 240mm

**343-156** 6mm



**HESS**

Nervenwurzelretractor, Gesamtlänge 195mm  
nerve root retractor, total length 195mm

**343-163** 3mm

**343-164** 4mm

**343-165** 5mm

**343-167** 7mm



**TAYLOR**

Spinal Haken, Gesamtlänge 200mm  
Spinal retractor, total length 200mm

**343-200** 75 x 32mm

**343-201** 100 x 32mm



**CLOWARD**

Wundhaken, Gesamtlänge 180mm  
Blade retractor, total length 180mm

**343-210** 75x18mm

**343-211** 75x20mm

**343-212** 75x23mm



# ELCON

## MICRO



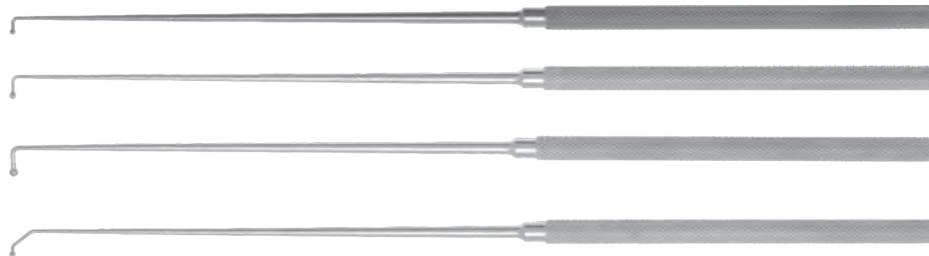
### DANDY

Haken, 4mm tief, Gesamtlänge 220mm  
Hook, depth 4mm, total length 220mm

**341-820** gerade / straight

**341-821** links / left

**341-822** rechts /right



Haken, Gesamtlänge 245mm  
Hook, total length 245mm

**341-888**

**341-889**

**341-890**

**341-891**



### YASARGIL

Federhaken zur Galea Fixierung  
Galea hook

**341-315** 7mm breit, Gesamtlänge 310mm  
width 7mm, total length 310mm

**341-316** 12mm breit, Gesamtlänge 410mm  
width 12mm, total length 410mm

**KERRISON**

Bissbreite Width of bite Anchura de la boca Largeur des mors	Schaftlänge Length of the shaft Longitud del vástago Longueur de la tige	90°	40°	90°	40°
1mm	150mm	<b>344-001</b>	<b>344-131</b>		
2mm	150mm	<b>344-002</b>	<b>344-132</b>		
3mm	150mm	<b>344-003</b>	<b>344-133</b>		
4mm	150mm	<b>344-004</b>	<b>344-134</b>		
5mm	150mm	<b>344-005</b>	<b>344-135</b>		
6mm	150mm	<b>344-006</b>	<b>344-136</b>		
1mm	180mm	<b>344-011</b>	<b>344-141</b>	<b>344-041</b>	<b>344-071</b>
1,5mm	180mm		<b>344-141-15</b>		
2mm	180mm	<b>344-012</b>	<b>344-142</b>	<b>344-042</b>	<b>344-072</b>
3mm	180mm	<b>344-013</b>	<b>344-143</b>	<b>344-043</b>	<b>344-073</b>
4mm	180mm	<b>344-014</b>	<b>344-144</b>	<b>344-044</b>	<b>344-074</b>
5mm	180mm	<b>344-015</b>	<b>344-145</b>	<b>344-045</b>	<b>344-075</b>
6mm	180mm	<b>344-016</b>	<b>344-146</b>	<b>344-046</b>	<b>344-076</b>
1mm	200mm	<b>344-021</b>	<b>344-151</b>	<b>344-051</b>	<b>344-081</b>
1,5mm	200mm		<b>344-151-15</b>		
2mm	200mm	<b>344-022</b>	<b>344-152</b>	<b>344-052</b>	<b>344-082</b>
3mm	200mm	<b>344-023</b>	<b>344-153</b>	<b>344-053</b>	<b>344-083</b>
4mm	200mm	<b>344-024</b>	<b>344-154</b>	<b>344-054</b>	<b>344-084</b>
5mm	200mm	<b>344-025</b>	<b>344-155</b>	<b>344-055</b>	<b>344-085</b>
6mm	200mm	<b>344-026</b>	<b>344-156</b>	<b>344-056</b>	<b>344-086</b>
1mm	230mm	<b>344-170-10</b>	<b>344-172-10</b>		
1,5mm	230mm		<b>344-172-15</b>		
2mm	230mm	<b>344-170-20</b>	<b>344-172-20</b>		
3mm	230mm	<b>344-170-30</b>	<b>344-172-30</b>		
4mm	230mm	<b>344-170-40</b>	<b>344-172-40</b>		
5mm	230mm	<b>344-170-50</b>	<b>344-172-50</b>		
6mm	230mm	<b>344-170-60</b>	<b>344-172-60</b>		
1mm	280mm	<b>344-180-10</b>	<b>344-182-10</b>		
1,5mm	280mm		<b>344-182-15</b>		
2mm	280mm	<b>344-180-20</b>	<b>344-182-20</b>		
3mm	280mm	<b>344-180-30</b>	<b>344-182-30</b>		
4mm	280mm	<b>344-180-40</b>	<b>344-182-40</b>		
5mm	280mm	<b>344-180-50</b>	<b>344-182-50</b>		
6mm	280mm	<b>344-180-60</b>	<b>344-182-60</b>		
1mm	300mm	<b>344-190-10</b>	<b>344-192-10</b>		
2mm	300mm	<b>344-190-20</b>	<b>344-192-20</b>		
3mm	300mm	<b>344-190-30</b>	<b>344-192-30</b>		
4mm	300mm	<b>344-190-40</b>	<b>344-192-40</b>		
5mm	300mm	<b>344-190-50</b>	<b>344-192-50</b>		
6mm	300mm	<b>344-190-60</b>	<b>344-192-60</b>		

Öffnungsweite 8-10mm • opening width 8-10mm • ancho apertura 8-10mm • overture 8-10mm

### KERRISON

Keramik beschichtet (TiALN) • ceramic coated (TiALN) • cubierto ceramica (TiALN) • couche ceramique (TiALN)

Bissbreite Width of bite Anchura de la boca Largeur des mors	Schaftlänge Length of the shaft Longitud del vástago Longueur de la tige	90°	40°	90°	40°
1mm	150mm	344-001CC	344-131CC		
2mm	150mm	344-002CC	344-132CC		
3mm	150mm	344-003CC	344-133CC		
4mm	150mm	344-004CC	344-134CC		
5mm	150mm	344-005CC	344-135CC		
6mm	150mm	344-006CC	344-136CC		
1mm	180mm	344-011CC	344-141CC	344-041CC	344-071CC
1,5mm	180mm		344-141-15CC		
2mm	180mm	344-012CC	344-142CC	344-042CC	344-072CC
3mm	180mm	344-013CC	344-143CC	344-043CC	344-073CC
4mm	180mm	344-014CC	344-144CC	344-044CC	344-074CC
5mm	180mm	344-015CC	344-145CC	344-045CC	344-075CC
6mm	180mm	344-016CC	344-146CC	344-046CC	344-076CC
1mm	200mm	344-021CC	344-151CC	344-051CC	344-081CC
1,5mm	200mm		344-151-15CC		
2mm	200mm	344-022CC	344-152CC	344-052CC	344-082CC
3mm	200mm	344-023CC	344-153CC	344-053CC	344-083CC
4mm	200mm	344-024CC	344-154CC	344-054CC	344-084CC
5mm	200mm	344-025CC	344-155CC	344-055CC	344-085CC
6mm	200mm	344-026CC	344-156CC	344-056CC	344-086CC
1mm	230mm	344-170-10CC	344-172-10CC		
1,5mm	230mm		344-172-15CC		
2mm	230mm	344-170-20CC	344-172-20CC		
3mm	230mm	344-170-30CC	344-172-30CC		
4mm	230mm	344-170-40CC	344-172-40CC		
5mm	230mm	344-170-50CC	344-172-50CC		
6mm	230mm	344-170-60CC	344-172-60CC		
1mm	280mm	344-180-10CC	344-182-10CC		
1,5mm	280mm		344-182-15CC		
2mm	280mm	344-180-20CC	344-182-20CC		
3mm	280mm	344-180-30CC	344-182-30CC		
4mm	280mm	344-180-40CC	344-182-40CC		
5mm	280mm	344-180-50CC	344-182-50CC		
6mm	280mm	344-180-60CC	344-182-60CC		
1mm	300mm	344-190-10CC	344-192-10CC		
2mm	300mm	344-190-20CC	344-192-20CC		
3mm	300mm	344-190-30CC	344-192-30CC		
4mm	300mm	344-190-40CC	344-192-40CC		
5mm	300mm	344-190-50CC	344-192-50CC		
6mm	300mm	344-190-60CC	344-192-60CC		



Öffnungsweite 8-10mm • opening width 8-10mm • ancho apertura 8-10mm • ouverture 8-10mm

**KERRISON**

zerlegbar • detachable • desmontable • decomposable

Bissbreite Width of bite Anchura de la boca Largeur des mors	Schaftlänge Length of the shaft Longitud del vástago Longueur de la tige	90°	40°
1mm	180mm	<b>344-011DT</b>	<b>344-141DT</b>
2mm	180mm	<b>344-012DT</b>	<b>344-142DT</b>
3mm	180mm	<b>344-013DT</b>	<b>344-143DT</b>
4mm	180mm	<b>344-014DT</b>	<b>344-144DT</b>
5mm	180mm	<b>344-015DT</b>	<b>344-145DT</b>
6mm	180mm	<b>344-016DT</b>	<b>344-146DT</b>
1mm	200mm	<b>344-021DT</b>	<b>344-151DT</b>
2mm	200mm	<b>344-022DT</b>	<b>344-152DT</b>
3mm	200mm	<b>344-023DT</b>	<b>344-153DT</b>
4mm	200mm	<b>344-024DT</b>	<b>344-154DT</b>
5mm	200mm	<b>344-025DT</b>	<b>344-155DT</b>
6mm	200mm	<b>344-026DT</b>	<b>344-156DT</b>
1mm	230mm	<b>344-170-10DT</b>	<b>344-172-10DT</b>
2mm	230mm	<b>344-170-20DT</b>	<b>344-172-20DT</b>
3mm	230mm	<b>344-170-30DT</b>	<b>344-172-30DT</b>
4mm	230mm	<b>344-170-40DT</b>	<b>344-172-40DT</b>
5mm	230mm	<b>344-170-50DT</b>	<b>344-172-50DT</b>
6mm	230mm	<b>344-170-60DT</b>	<b>344-172-60DT</b>

**KERRISON**

zerlegbar und Keramik beschichtet (TiALN) • detachable and ceramic coated (TiALN)  
 desmontable y cubierto ceramica (TiALN) • decomposable et couche ceramique (TiALN)

Bissbreite Width of bite Anchura de la boca Largeur des mors	Schaftlänge Length of the shaft Longitud del vástago Longueur de la tige	90°	40°
1mm	180mm	<b>344-011DTCC</b>	<b>344-141DTCC</b>
2mm	180mm	<b>344-012DTCC</b>	<b>344-142DTCC</b>
3mm	180mm	<b>344-013DTCC</b>	<b>344-143DTCC</b>
4mm	180mm	<b>344-014DTCC</b>	<b>344-144DTCC</b>
5mm	180mm	<b>344-015DTCC</b>	<b>344-145DTCC</b>
6mm	180mm	<b>344-016DTCC</b>	<b>344-146DTCC</b>
1mm	200mm	<b>344-021DTCC</b>	<b>344-151DTCC</b>
2mm	200mm	<b>344-022DTCC</b>	<b>344-152DTCC</b>
3mm	200mm	<b>344-023DTCC</b>	<b>344-153DTCC</b>
4mm	200mm	<b>344-024DTCC</b>	<b>344-154DTCC</b>
5mm	200mm	<b>344-025DTCC</b>	<b>344-155DTCC</b>
6mm	200mm	<b>344-026DTCC</b>	<b>344-156DTCC</b>
1mm	230mm	<b>344-170-10DTCC</b>	<b>344-172-10DTCC</b>
2mm	230mm	<b>344-170-20DTCC</b>	<b>344-172-20DTCC</b>
3mm	230mm	<b>344-170-30DTCC</b>	<b>344-172-30DTCC</b>
4mm	230mm	<b>344-170-40DTCC</b>	<b>344-172-40DTCC</b>
5mm	230mm	<b>344-170-50DTCC</b>	<b>344-172-50DTCC</b>
6mm	230mm	<b>344-170-60DTCC</b>	<b>344-172-60DTCC</b>

Öffnungsweite 10mm • opening width 10mm • ancho apertura 10mm • overture 10mm

### KERRISON

Auswerfer und zerlegbar • ejector and detachable • eyector y desmontable • ejecteur et decomposable

Bissbreite Width of bite Anchura de la boca Largeur des mors	Schaftlänge Length of the shaft Longitud del vástago Longueur de la tige	90°	40°
2mm	180mm	<b>344-012EDT</b>	<b>344-142EDT</b>
3mm	180mm	<b>344-013EDT</b>	<b>344-143EDT</b>
4mm	180mm	<b>344-014EDT</b>	<b>344-144EDT</b>
5mm	180mm	<b>344-015EDT</b>	<b>344-145EDT</b>
6mm	180mm	<b>344-016EDT</b>	<b>344-146EDT</b>
2mm	200mm	<b>344-022EDT</b>	<b>344-152EDT</b>
3mm	200mm	<b>344-023EDT</b>	<b>344-153EDT</b>
4mm	200mm	<b>344-024EDT</b>	<b>344-154EDT</b>
5mm	200mm	<b>344-025EDT</b>	<b>344-155EDT</b>
6mm	200mm	<b>344-026EDT</b>	<b>344-156EDT</b>
2mm	230mm	<b>344-170-20EDT</b>	<b>344-172-20EDT</b>
3mm	230mm	<b>344-170-30EDT</b>	<b>344-172-30EDT</b>
4mm	230mm	<b>344-170-40EDT</b>	<b>344-172-40EDT</b>
5mm	230mm	<b>344-170-50EDT</b>	<b>344-172-50EDT</b>
6mm	230mm	<b>344-170-60EDT</b>	<b>344-172-60EDT</b>

Öffnungsweite 10mm • opening width 10mm • ancho apertura 10mm • overture 10mm

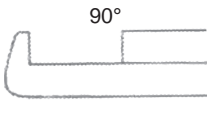
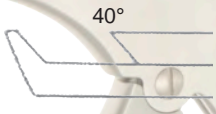


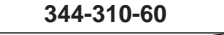

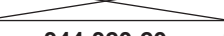
### KERRISON

Auswerfer, zerlegbar und Keramik beschichtet (TiALN) • ejector, detachable and ceramic coated (TiALN)  
eyector, desmontable y cubierto ceramica (TiALN) • ejecteur, decomposable et couche ceramique (TiALN)

Bissbreite Width of bite Anchura de la boca Largeur des mors	Schaftlänge Length of the shaft Longitud del vástago Longueur de la tige	90°	40°
2mm	180mm	<b>344-012EDTCC</b>	<b>344-142EDTCC</b>
3mm	180mm	<b>344-013EDTCC</b>	<b>344-143EDTCC</b>
4mm	180mm	<b>344-014EDTCC</b>	<b>344-144EDTCC</b>
5mm	180mm	<b>344-015EDTCC</b>	<b>344-145EDTCC</b>
6mm	180mm	<b>344-016EDTCC</b>	<b>344-146EDTCC</b>
2mm	200mm	<b>344-022EDTCC</b>	<b>344-152EDTCC</b>
3mm	200mm	<b>344-023EDTCC</b>	<b>344-153EDTCC</b>
4mm	200mm	<b>344-024EDTCC</b>	<b>344-154EDTCC</b>
5mm	200mm	<b>344-025EDTCC</b>	<b>344-155EDTCC</b>
6mm	200mm	<b>344-026EDTCC</b>	<b>344-156EDTCC</b>
2mm	230mm	<b>344-170-20EDTCC</b>	<b>344-172-20EDTCC</b>
3mm	230mm	<b>344-170-30EDTCC</b>	<b>344-172-30EDTCC</b>
4mm	230mm	<b>344-170-40EDTCC</b>	<b>344-172-40EDTCC</b>
5mm	230mm	<b>344-170-50EDTCC</b>	<b>344-172-50EDTCC</b>
6mm	230mm	<b>344-170-60EDTCC</b>	<b>344-172-60EDTCC</b>



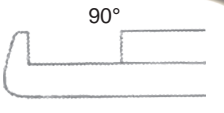
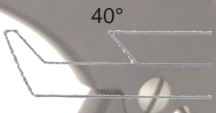


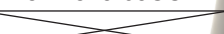


**KERRISON**

Bissbreite Width of bite Anchura de la boca Largeur des mors	Schaftlänge Length of the shaft Longitud del vástago Longueur de la tige	90°	40°
1mm	180mm		
1,5mm	180mm		<b>344-312-10</b>
2mm	180mm		<b>344-312-15</b>
3mm	180mm	<b>344-310-20</b>	<b>344-312-20</b>
4mm	180mm	<b>344-310-30</b>	<b>344-312-30</b>
5mm	180mm	<b>344-310-40</b>	<b>344-312-40</b>
6mm	180mm	<b>344-310-50</b>	<b>344-312-50</b>
1mm	200mm		<b>344-310-60</b>
1,5mm	200mm		<b>344-322-10</b>
2mm	200mm		<b>344-322-15</b>
3mm	200mm	<b>344-320-20</b>	<b>344-322-20</b>
4mm	200mm	<b>344-320-30</b>	<b>344-322-30</b>
5mm	200mm	<b>344-320-40</b>	<b>344-322-40</b>
6mm	200mm	<b>344-320-50</b>	<b>344-322-50</b>
6mm	200mm	<b>344-320-60</b>	<b>344-322-60</b>

Öffnungsweite 15mm • opening width 15mm • ancho apertura 15mm • overture 15mm

**KERRISON**

Keramik beschichtet (TiALN) • ceramic coated (TiALN) • cubierto ceramica (TiALN) • couche ceramique (TiALN)

Bissbreite Width of bite Anchura de la boca Largeur des mors	Schaftlänge Length of the shaft Longitud del vástago Longueur de la tige	90°	40°
1mm	180mm		
1,5mm	180mm		<b>344-312-10CC</b>
2mm	180mm		<b>344-312-15CC</b>
3mm	180mm	<b>344-310-20CC</b>	<b>344-312-20CC</b>
4mm	180mm	<b>344-310-30CC</b>	<b>344-312-30CC</b>
5mm	180mm	<b>344-310-40CC</b>	<b>344-312-40CC</b>
6mm	180mm	<b>344-310-50CC</b>	<b>344-312-50CC</b>
1mm	200mm		<b>344-310-60CC</b>
1,5mm	200mm		<b>344-322-10CC</b>
2mm	200mm		<b>344-322-15CC</b>
3mm	200mm	<b>344-320-20CC</b>	<b>344-322-20CC</b>
4mm	200mm	<b>344-320-30CC</b>	<b>344-322-30CC</b>
5mm	200mm	<b>344-320-40CC</b>	<b>344-322-40CC</b>
6mm	200mm	<b>344-320-50CC</b>	<b>344-322-50CC</b>
6mm	200mm	<b>344-320-60CC</b>	<b>344-322-60CC</b>

Öffnungsweite 15mm • opening width 15mm • ancho apertura 15mm • overture 15mm

Bissbreite Width of bite Anchura de la boca Largeur des mors	Schaftlänge Length of the shaft Longitud del vástago Longueur de la tige	90°	40°	90°
1 mm	180mm	<b>344-220-10</b>	<b>344-224-10</b>	<b>344-226-10</b>
2mm	180mm	<b>344-220-20</b>	<b>344-224-20</b>	<b>344-226-20</b>
3mm	180mm	<b>344-220-30</b>	<b>344-224-30</b>	<b>344-226-30</b>
4mm	180mm	<b>344-220-40</b>	<b>344-224-40</b>	<b>344-226-40</b>
5mm	180mm	<b>344-220-50</b>	<b>344-224-50</b>	<b>344-226-50</b>
6mm	180mm	<b>344-220-60</b>	<b>344-224-60</b>	<b>344-226-60</b>
1mm	200mm	<b>344-230-10</b>	<b>344-234-10</b>	<b>344-236-10</b>
1,5mm	200mm		<b>344-234-15</b>	
2mm	200mm	<b>344-230-20</b>	<b>344-234-20</b>	<b>344-236-20</b>
3mm	200mm	<b>344-230-30</b>	<b>344-234-30</b>	<b>344-236-30</b>
4mm	200mm	<b>344-230-40</b>	<b>344-234-40</b>	<b>344-236-40</b>
5mm	200mm	<b>344-230-50</b>	<b>344-234-50</b>	<b>344-236-50</b>
6mm	200mm	<b>344-230-60</b>	<b>344-234-60</b>	<b>344-236-60</b>

Öffnungsweite 8-10mm • opening width 8-10mm • ancho apertura 8-10mm • ouverture 8-10mm

Keramik beschichtet (TiALN) • ceramic coated (TiALN) • cubierto ceramica (TiALN) • couche ceramique (TiALN)

Bissbreite Width of bite Anchura de la boca Largeur des mors	Schaftlänge Length of the shaft Longitud del vástago Longueur de la tige	90°	40°	90°
1 mm	180mm	<b>344-220-10CC</b>	<b>344-224-10CC</b>	<b>344-226-10CC</b>
2mm	180mm	<b>344-220-20CC</b>	<b>344-224-20CC</b>	<b>344-226-20CC</b>
3mm	180mm	<b>344-220-30CC</b>	<b>344-224-30CC</b>	<b>344-226-30CC</b>
4mm	180mm	<b>344-220-40CC</b>	<b>344-224-40CC</b>	<b>344-226-40CC</b>
5mm	180mm	<b>344-220-50CC</b>	<b>344-224-50CC</b>	<b>344-226-50CC</b>
6mm	180mm	<b>344-220-60CC</b>	<b>344-224-60CC</b>	<b>344-226-60CC</b>
1mm	200mm	<b>344-230-10CC</b>	<b>344-234-10CC</b>	<b>344-236-10CC</b>
1,5mm	200mm		<b>344-234-15CC</b>	
2mm	200mm	<b>344-230-20CC</b>	<b>344-234-20CC</b>	<b>344-236-20CC</b>
3mm	200mm	<b>344-230-30CC</b>	<b>344-234-30CC</b>	<b>344-236-30CC</b>
4mm	200mm	<b>344-230-40CC</b>	<b>344-234-40CC</b>	<b>344-236-40CC</b>
5mm	200mm	<b>344-230-50CC</b>	<b>344-234-50CC</b>	<b>344-236-50CC</b>
6mm	200mm	<b>344-230-60CC</b>	<b>344-234-60CC</b>	<b>344-236-60CC</b>

Öffnungsweite 8-10mm • opening width 8-10mm • ancho apertura 8-10mm • ouverture 8-10mm

zerlegbar • detachable • desmontable • decomposable

Bissbreite Width of bite Anchura de la boca Largeur des mors	Schaftlänge Length of the shaft Longitud del vástago Longueur de la tige	90°	40°
1mm	180mm	<b>344-220-10DT</b>	<b>344-224-10DT</b>
2mm	180mm	<b>344-220-20DT</b>	<b>344-224-20DT</b>
3mm	180mm	<b>344-220-30DT</b>	<b>344-224-30DT</b>
4mm	180mm	<b>344-220-40DT</b>	<b>344-224-40DT</b>
5mm	180mm	<b>344-220-50DT</b>	<b>344-224-50DT</b>
6mm	180mm	<b>344-220-60DT</b>	<b>344-224-60DT</b>
1mm	200mm	<b>344-230-10DT</b>	<b>344-234-10DT</b>
2mm	200mm	<b>344-230-20DT</b>	<b>344-234-20DT</b>
3mm	200mm	<b>344-230-30DT</b>	<b>344-234-30DT</b>
4mm	200mm	<b>344-230-40DT</b>	<b>344-234-40DT</b>
5mm	200mm	<b>344-230-50DT</b>	<b>344-234-50DT</b>
6mm	200mm	<b>344-230-60DT</b>	<b>344-234-60DT</b>

Öffnungsweite 10mm • opening width 10mm • ancho apertura 10mm • overture 10mm

zerlegbar und Keramik beschichtet (TiALN) • detachable and ceramic coated (TiALN)  
 desmontable y cubierto ceramica (TiALN) • decomposable et couche ceramique (TiALN)

Bissbreite Width of bite Anchura de la boca Largeur des mors	Schaftlänge Length of the shaft Longitud del vástago Longueur de la tige	90°	40°
1mm	180mm	<b>344-220-10DTCC</b>	<b>344-224-10DTCC</b>
2mm	180mm	<b>344-220-20DTCC</b>	<b>344-224-20DTCC</b>
3mm	180mm	<b>344-220-30DTCC</b>	<b>344-224-30DTCC</b>
4mm	180mm	<b>344-220-40DTCC</b>	<b>344-224-40DTCC</b>
5mm	180mm	<b>344-220-50DTCC</b>	<b>344-224-50DTCC</b>
6mm	180mm	<b>344-220-60DTCC</b>	<b>344-224-60DTCC</b>
1mm	200mm	<b>344-230-10DTCC</b>	<b>344-234-10DTCC</b>
2mm	200mm	<b>344-230-20DTCC</b>	<b>344-234-20DTCC</b>
3mm	200mm	<b>344-230-30DTCC</b>	<b>344-234-30DTCC</b>
4mm	200mm	<b>344-230-40DTCC</b>	<b>344-234-40DTCC</b>
5mm	200mm	<b>344-230-50DTCC</b>	<b>344-234-50DTCC</b>
6mm	200mm	<b>344-230-60DTCC</b>	<b>344-234-60DTCC</b>

Öffnungsweite 10mm • opening width 10mm • ancho apertura 10mm • overture 10mm

Auswerfer und zerlegbar • ejector and detachable • eyector y desmontable • ejecteur et decomposable)

Bissbreite Width of bite Anchura de la boca Largeur des mors	Schaftlänge Length of the shaft Longitud del vástago Longueur de la tige	90°	40°
2mm	180mm	<b>344-220-20EDT</b>	<b>344-224-20EDT</b>
3mm	180mm	<b>344-220-30EDT</b>	<b>344-224-30EDT</b>
4mm	180mm	<b>344-220-40EDT</b>	<b>344-224-40EDT</b>
5mm	180mm	<b>344-220-50EDT</b>	<b>344-224-50EDT</b>
6mm	180mm	<b>344-220-60EDT</b>	<b>344-224-60EDT</b>
2mm	200mm	<b>344-230-20EDT</b>	<b>344-234-20EDT</b>
3mm	200mm	<b>344-230-30EDT</b>	<b>344-234-30EDT</b>
4mm	200mm	<b>344-230-40EDT</b>	<b>344-234-40EDT</b>
5mm	200mm	<b>344-230-50EDT</b>	<b>344-234-50EDT</b>
6mm	200mm	<b>344-230-60EDT</b>	<b>344-234-60EDT</b>

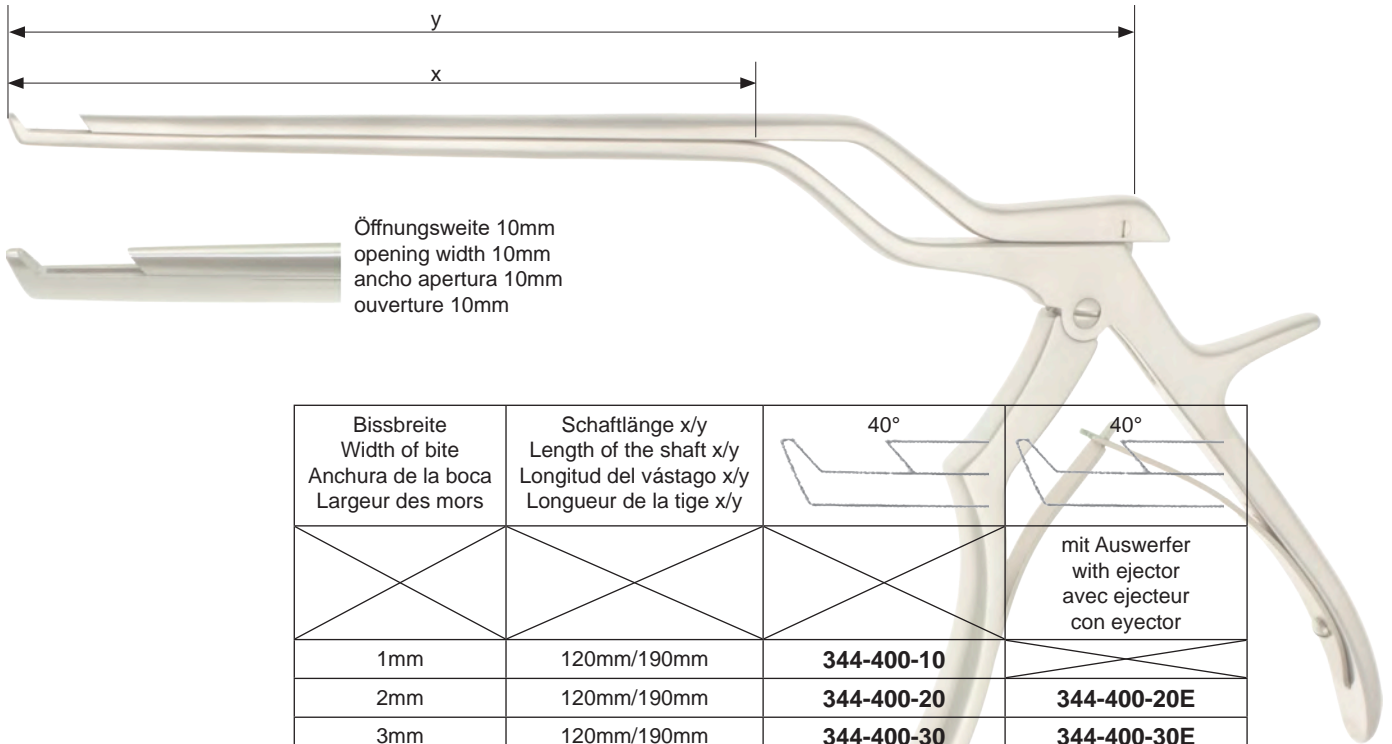
Öffnungsweite 10mm • opening width 10mm • ancho apertura 10mm • ouverture 10mm

Auswerfer, zerlegbar und Keramik beschichtet (TiALN) • ejector, detachable and ceramic coated (TiALN)  
eyector, desmontable y cubierto ceramica (TiALN) • ejecteur, decomposable et couche ceramique (TiALN)

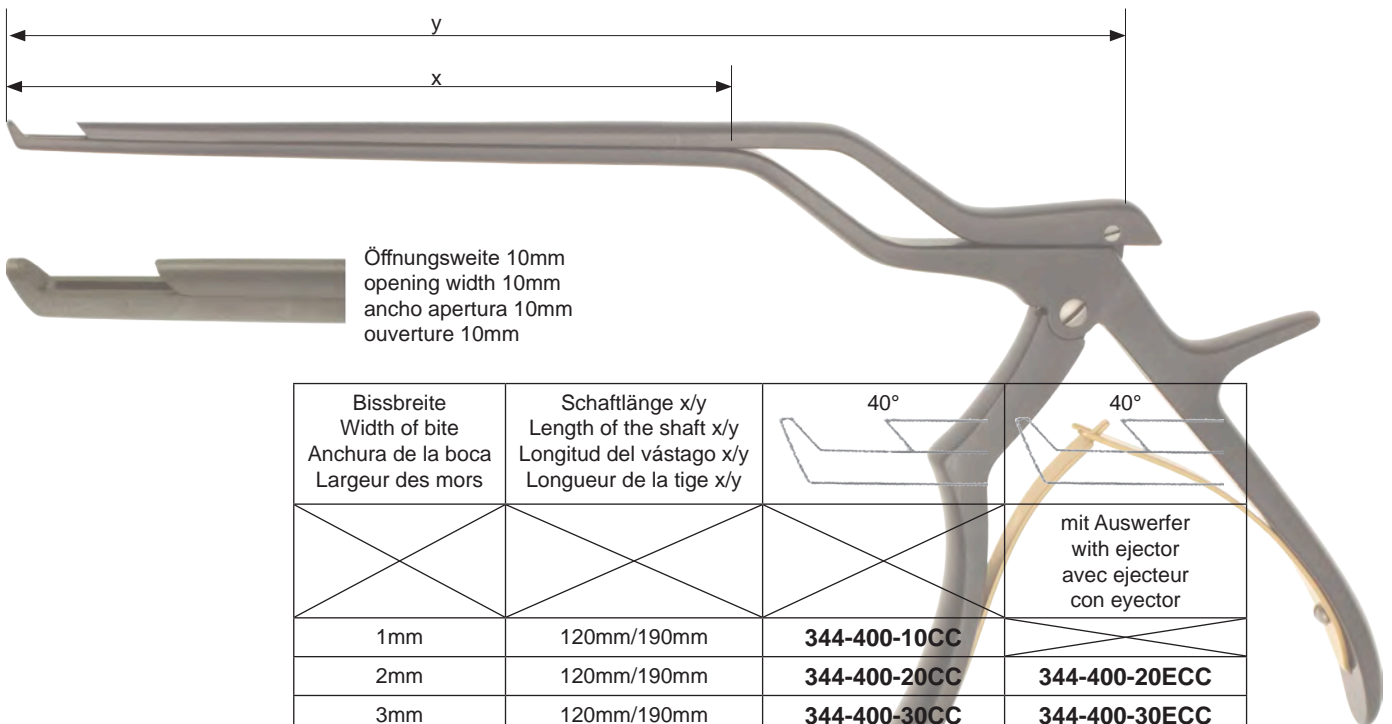
Bissbreite Width of bite Anchura de la boca Largeur des mors	Schaftlänge Length of the shaft Longitud del vástago Longueur de la tige	90°	40°
2mm	180mm	<b>344-220-20EDTCC</b>	<b>344-224-20EDTCC</b>
3mm	180mm	<b>344-220-30EDTCC</b>	<b>344-224-30EDTCC</b>
4mm	180mm	<b>344-220-40EDTCC</b>	<b>344-224-40EDTCC</b>
5mm	180mm	<b>344-220-50EDTCC</b>	<b>344-224-50EDTCC</b>
6mm	180mm	<b>344-220-60EDTCC</b>	<b>344-224-60EDTCC</b>
2mm	200mm	<b>344-230-20EDTCC</b>	<b>344-234-20EDTCC</b>
3mm	200mm	<b>344-230-30EDTCC</b>	<b>344-234-30EDTCC</b>
4mm	200mm	<b>344-230-40EDTCC</b>	<b>344-234-40EDTCC</b>
5mm	200mm	<b>344-230-50EDTCC</b>	<b>344-234-50EDTCC</b>
6mm	200mm	<b>344-230-60EDTCC</b>	<b>344-234-60EDTCC</b>

LAMINEKTOMIE STANZE BAJONETTSCHAFT  
 LAMINECTOMY PUNCH SHAFT BAYONET SHAPED  
 PINZAS CORTANTES PARA LAMINECTOMIA VASTAGO BAYONETA  
 PINCE EMPORTE-PIECE A LAMINECTOMIE TIGE BAIONNETTE

**ELCON**  
**MICRO**



Bissbreite Width of bite Anchura de la boca Largeur des mors	Schaftlänge x/y Length of the shaft x/y Longitud del vástago x/y Longueur de la tige x/y	40°	40°
			mit Auswerfer with ejector avec ejecteur con eyector
1mm	120mm/190mm	<b>344-400-10</b>	
2mm	120mm/190mm	<b>344-400-20</b>	<b>344-400-20E</b>
3mm	120mm/190mm	<b>344-400-30</b>	<b>344-400-30E</b>
4mm	120mm/190mm	<b>344-400-40</b>	<b>344-400-40E</b>
5mm	120mm/190mm	<b>344-400-50</b>	<b>344-400-50E</b>
6mm	120mm/190mm	<b>344-400-60</b>	<b>344-400-60E</b>

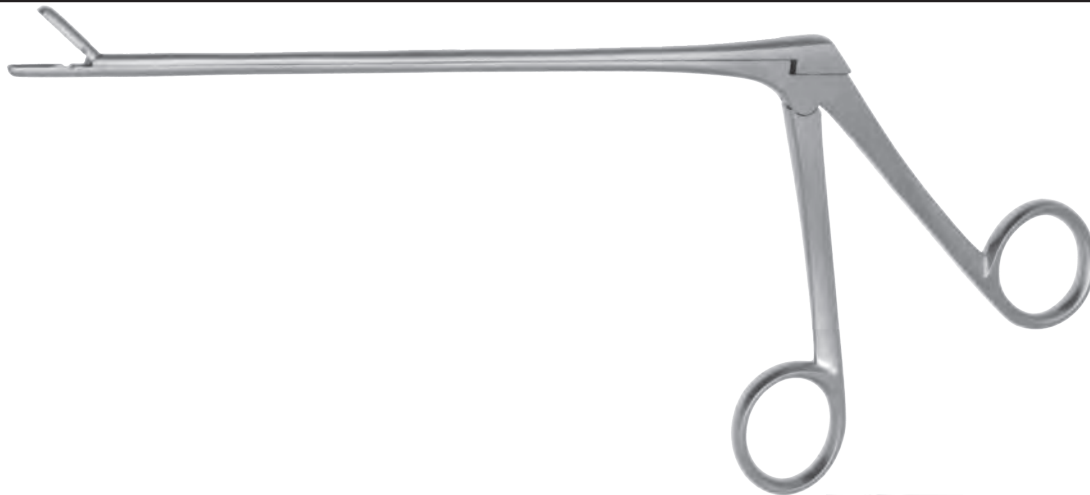


Bissbreite Width of bite Anchura de la boca Largeur des mors	Schaftlänge x/y Length of the shaft x/y Longitud del vástago x/y Longueur de la tige x/y	40°	40°
			mit Auswerfer with ejector avec ejecteur con eyector
1mm	120mm/190mm	<b>344-400-10CC</b>	
2mm	120mm/190mm	<b>344-400-20CC</b>	<b>344-400-20ECC</b>
3mm	120mm/190mm	<b>344-400-30CC</b>	<b>344-400-30ECC</b>
4mm	120mm/190mm	<b>344-400-40CC</b>	<b>344-400-40ECC</b>
5mm	120mm/190mm	<b>344-400-50CC</b>	<b>344-400-50ECC</b>
6mm	120mm/190mm	<b>344-400-60CC</b>	<b>344-400-60ECC</b>

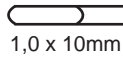


### WEIL-BLAKSLEY

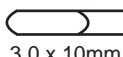
Maulteil jaws boca mors	Schaftlänge length of the shaft longitud del vástago longueur de la tige	gerade straight recta droit	aufwärts upwards hacia arriba vers le haut
2,5mm	180mm	<b>346-900</b>	<b>346-901</b>
3,0mm	180mm	<b>346-910</b>	<b>346-911</b>
3,5mm	180mm	<b>346-920</b>	<b>346-921</b>
4,0mm	180mm	<b>346-930</b>	<b>346-931</b>
4,5mm	180mm	<b>346-940</b>	<b>346-941</b>
5,0mm	180mm	<b>346-950</b>	<b>346-951</b>
5,5mm	180mm	<b>346-960</b>	<b>346-961</b>



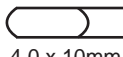
**CUSHING**

 1,0 x 10mm	130mm	<b>346-000</b>	<b>346-033</b>	<b>346-037</b>
	150mm	<b>346-100</b>	<b>346-103</b>	<b>346-107</b>
	180mm	<b>346-200</b>	<b>346-203</b>	<b>346-207</b>
 1,5 x 10mm	130mm	<b>346-010</b>	<b>346-013</b>	<b>346-017</b>
	150mm	<b>346-110</b>	<b>346-113</b>	<b>346-117</b>
	180mm	<b>346-210</b>	<b>346-213</b>	<b>346-217</b>
	200mm	<b>346-310</b>	<b>346-313</b>	<b>346-317</b>
 2,0 x 10mm	130mm	<b>346-020</b>	<b>346-023</b>	<b>346-027</b>
	150mm	<b>346-120</b>	<b>346-123</b>	<b>346-127</b>
	180mm	<b>346-220</b>	<b>346-223</b>	<b>346-227</b>
	200mm	<b>346-320</b>	<b>346-323</b>	<b>346-327</b>

**LOVE-GRUENWALD**

 3,0 x 10mm	130mm	<b>346-030</b>	<b>346-033</b>	<b>346-037</b>
	150mm	<b>346-130</b>	<b>346-133</b>	<b>346-137</b>
	180mm	<b>346-230</b>	<b>346-233</b>	<b>346-237</b>
	200mm	<b>346-330</b>	<b>346-333</b>	<b>346-337</b>

**SPURLING**

 4,0 x 10mm	130mm	<b>346-040</b>	<b>346-043</b>	<b>346-047</b>
	150mm	<b>346-140</b>	<b>346-143</b>	<b>346-147</b>
	180mm	<b>346-240</b>	<b>346-243</b>	<b>346-247</b>
	200mm	<b>346-340</b>	<b>346-343</b>	<b>346-347</b>

**CUSHING „e-move“** zerlegbar, detachable, decomposable, desmontable

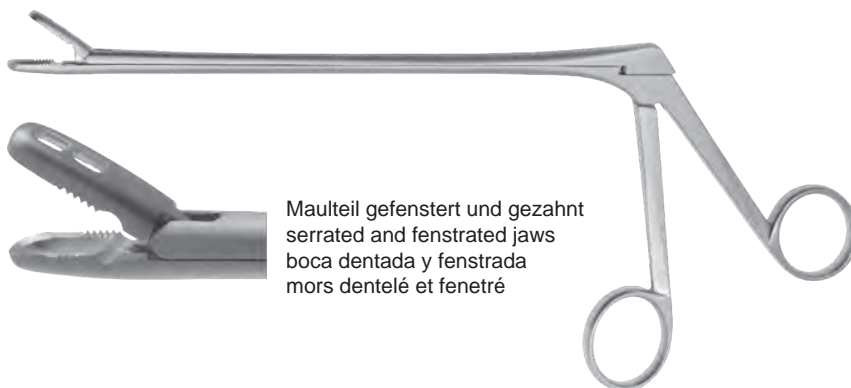
2,0 x 10mm	130mm	<b>346-020DT</b>	<b>346-023DT</b>	<b>346-027DT</b>
	180mm	<b>346-220DT</b>	<b>346-223DT</b>	<b>346-227DT</b>

**LOVE-GRUENWALD „e-move“** zerlegbar, detachable, decomposable, desmontable

3,0 x 10mm	130mm	<b>346-030DT</b>	<b>346-033DT</b>	<b>346-037DT</b>
	180mm	<b>346-230DT</b>	<b>346-233DT</b>	<b>346-237DT</b>

**SPURLING „e-move“** zerlegbar, detachable, decomposable, desmontable

4,0 x 10mm	130mm	<b>346-040DT</b>	<b>346-043DT</b>	<b>346-047DT</b>
	180mm	<b>346-240DT</b>	<b>346-243DT</b>	<b>346-247DT</b>



Maulteil gefenstert und gezahnt  
serrated and fenestrated jaws  
boca dentada y fenestrada  
mors dentelé et fenêtré

### CASPAR LAMINECTOMY RONGEURS

Maulteil jaws boca mors	Schaftlänge length of the shaft longitud del vástago longueur de la tige	gerade straight recta droit	aufwärts upwards hacia arriba vers le haut	abwärts downwards hacia abajo vers le bas
2,0 x 12mm	140mm	<b>347-000-14</b>	<b>347-001-14</b>	<b>347-003-14</b>
3,0 x 12mm	140mm	<b>347-010-14</b>	<b>347-011-14</b>	<b>347-013-14</b>
4,0 x 14mm	140mm	<b>347-020-14</b>	<b>347-021-14</b>	<b>347-023-14</b>
5,0 x 14mm	140mm	<b>347-030-14</b>	<b>347-031-14</b>	<b>347-033-14</b>
2,0 x 12mm	160mm	<b>347-000-16</b>	<b>347-001-16</b>	<b>347-003-16</b>
3,0 x 12mm	160mm	<b>347-010-16</b>	<b>347-011-16</b>	<b>347-013-16</b>
4,0 x 14mm	160mm	<b>347-020-16</b>	<b>347-021-16</b>	<b>347-023-16</b>
5,0 x 14mm	160mm	<b>347-030-16</b>	<b>347-031-16</b>	<b>347-033-16</b>
2,0 x 12mm	185mm	<b>347-000-18</b>	<b>347-001-18</b>	<b>347-003-18</b>
3,0 x 12mm	185mm	<b>347-010-18</b>	<b>347-011-18</b>	<b>347-013-18</b>
4,0 x 14mm	185mm	<b>347-020-18</b>	<b>347-021-18</b>	<b>347-023-18</b>
5,0 x 14mm	185mm	<b>347-030-18</b>	<b>347-031-18</b>	<b>347-033-18</b>





**LANDOLT**

Eukleator, Arbeitslänge 155mm, Gesamtlänge 260mm  
Enucleator, working length 155mm, total length 260mm

**348-9625L** biegsamer Schaft,  
links schneidend  
malleable shaft  
cutting the left

**348-9625R** biegsamer Schaft,  
rechts schneidend  
malleable shaft  
cutting on the right



**LANDOLT**

Spatelkürette, Arbeitslänge 155mm, Gesamtlänge 260mm  
Spatula curette, working length 155mm, total length 260mm

**348-9627** biegsamer Schaft,  
malleable shaft



**LANDOLT-REULEN**

Löffel, Arbeitslänge 155mm, Gesamtlänge 260mm  
Curette, working length 155mm, total length 260mm

**348-9642** Ø 2,5mm



**LANDOLT-REULEN**

Stumpfes Häkchen, Arbeitslänge 155mm, Gesamtlänge 260mm  
Blunt hook, working length 155mm, total length 260mm

**348-9643**



**FAHLBUSCH**

Kürette Ø 2,5mm, biegsam,  
Arbeitslänge 155mm, Gesamtlänge 260mm  
Curette, Ø 2,5mm, malleable,  
working length 155mm, total length 260mm

**348-9637**

















**HARDY**

Kürette Ø 4mm, biegsam,  
Arbeitslänge 155mm, Gesamtlänge 260mm  
Curette, Ø 4mm, malleable,  
working length 155mm, total length 260mm

**341-534**

### HARDY

Arbeitslänge 120mm, Gesamtlänge 240mm  
 Working length 120mm, total length 240mm

	<b>341-500</b>	Kürette, Ø 3mm, 90° aufgewinkelt Curette, Ø 3mm, 90° angled up
	<b>341-501</b>	Kürette, Ø 3mm, 90° abgewinkelt Curette, Ø 3mm, 90° angled down
	<b>341-502</b>	Kürette, Ø 3mm, 90° links gewinkelt Curette, Ø 3mm, 90° left angled
	<b>341-503</b>	Kürette, Ø 3mm, 45° rechts gewinkelt Curette, Ø 3mm, 45° right angled
	<b>341-510</b>	Kürette, Ø 5mm, 90° aufgewinkelt Curette, Ø 5mm, 90° angled up
	<b>341-511</b>	Kürette, Ø 5mm, 90° abgewinkelt Curette, Ø 5mm, 90° angled down
	<b>341-512</b>	Kürette, Ø 5mm, 90° links gewinkelt Curette, Ø 5mm, 90° left angled
	<b>341-513</b>	Kürette, Ø 5mm, 45° rechts gewinkelt Curette, Ø 5mm, 45° right angled
	<b>341-514</b>	Kürette, Ø 5mm, links gebogen Curette, Ø 5mm, curved left
	<b>341-515</b>	Kürette, Ø 5mm, rechts gebogen Curette, Ø 5mm, curved right
	<b>341-531</b>	Mikro Dissektor, 2mm aufwärts gebogen Micro dissector, 2mm, curved up
	<b>341-533</b>	Mikro Dissektor, 2mm abwärts gebogen Micro dissector, 2mm, curved down
	<b>341-538</b>	Implatationsgabel Implant fork
	<b>341-540</b>	Kürette, Ø 4mm, biegsam Curette, Ø 4mm, malleable

**CONE**

Ringkürette, gerade, Gesamtlänge 230mm  
 Ring curette, straight, total length 230mm

- 341-520      Ø 3mm
- 341-522      Ø 6mm
- 341-524      Ø 8mm



**CONE**

Ringkürette, gebogen, Gesamtlänge 230mm  
 Ring curette, curved, total length 230mm

- 341-521      Ø 3mm
- 341-523      Ø 6mm
- 341-525      Ø 8mm



**NICOLA**

Kürette, Arbeitlänge 120mm, Gesamtlänge 240mm  
 Curette, working length 120mm, total length 240mm

- 341-590      Ø 6,5mm, biegsam
- Ø 6,5mm, malleable



**NICOLA**

Kürette, Arbeitlänge 120mm, Gesamtlänge 240mm  
 Curette, working length 120mm, total length 240mm

- 341-591      Ø 6,5mm, biegsam,
- nach rechts schneidend
- Ø 6,5mm, malleable,
- cutting to the right



**NICOLA**

Kürette, Arbeitlänge 120mm, Gesamtlänge 240mm  
 Curette, working length 120mm, total length 240mm

- 341-593      Ø 6,5mm, biegsam,
- nach links schneidend
- Ø 6,5mm, malleable,
- cutting to the left



**HARDY-FAHLBUSCH**

Dissektor, Arbeitlänge 120mm, Gesamtlänge 240mm  
 Dissector, working length 120mm, total length 240mm

- 341-585L      links schneidend,
- Innenkante scharf
- cutting on the left,
- sharp inner edge



- 341-585R      rechts schneidend,
- Innenkante scharf
- cutting on the right,
- sharp inner edge





### YASARGIL

Raspatorium, Gesamtlänge 185mm  
Raspatory, total length 185mm

**360-401** leicht gebogen / slightly curved



**360-402** stark gebogen / strong curved



**360-403** abgewinkelt / angled



**360-404** abgewinkelt / angled



### YASARGIL

Dissektor, Gesamtlänge 185mm  
Dissector, total length 185mm

**360-410** abgewinkelt / angled



### YASARGIL

Raspatorium, Gesamtlänge 185mm  
Raspatory, total length 185mm

**360-406** stark aufgebogen / heavy curved up



### YASARGIL

Kürette, Gesamtlänge 185mm  
Curette, total length 185mm

**360-430**



### YASARGIL

Gefäßmesser, Gesamtlänge 185mm  
Vessel knife, total length 185mm

**360-466** aufgebogen / curved upwards



**360-467** abgebogen / curved downwards



### JACOBSON

Gefäßmesser, Gesamtlänge 185mm  
Vessel knife, total length 185mm

**360-450**



### JACOBSON

Knopfsonde Gesamtlänge 185mm  
Probe with ball point, total length 185mm

**360-420**



### JACOBSON

Doppelsonde Gesamtlänge 185mm  
Vessel probe and supporter, total length 185mm

**360-422**

Gefäßdilator, Gesamtlänge 125mm  
Vessel dilator, total length 125mm

**360-423** Ø 0,5mm

**360-424** Ø 1,0mm

**360-425** Ø 1,5mm

**KRAYENBUEHL**

Nerven- und Gefäßhäkchen, Gesamtlänge 185mm  
 Nerve and vessel hook, total length 185mm

**360-600** stumpf, kurz / blunt, short



**360-601** stumpf, lang / blunt, long



**360-602** geknöpft, kurz / ball pointed, short



**360-603** geknöpft, lang / ball pointed, long



**YASRAGIL**

Fadenführer, geknöpft, Gesamtlänge 185mm  
 Ligature guide, probe ended, total length 185mm

**360-840** leicht gebogen / slightly curved

**360-841** stark gebogen / strong curved

**360-842** sehr stark gebogen / very strong curved

**360-843** 90° abgewinkelt / angled 90°



**CASPAR**

Dissektor, Arbeitlänge 100mm, Gesamtlänge 230mm  
 Dissector, working length 100mm, total length 230mm

**348-9305** abgebogen, 4,5mm breit  
 curved downwards, width 4,5mm

**348-9307** abgebogen, 2,0mm breit  
 curved downwards, width 2,0mm



**CASPAR**

Mkro Dissektor, Arbeitlänge 100mm, Gesamtlänge 210mm  
 Micro dissector, working length 100mm, total length 210mm

**348-9311** aufgebogen, 1mm breit  
 curved upwards, width 1mm



**SAMII**

Tumormesser, Gesamtlänge 230mm  
 Tumor knife, total length 230mm

**348-0510** 1,0mm

**348-0511** 1,5mm

**348-0512** 2,0mm

**348-0513** 2,5mm

**348-0514** 3,0mm

**348-0515** 3,5mm

**348-0516** 4,0mm

**348-0517** 4,5mm

**348-0518** 5,0mm





### RHOTON

kompletter Satz bestehend aus 19 Instrumenten und Sotiergestell

Set complete consisting of 19 micro-instruments and rack

**365-001-00**

**365-001-00T** Titan, Titanium



Dissektor, 45° abgewinkelt, rund Ø 1mm, Gesamtlänge 190mm  
Dissector, angled 45°, round, Ø 1mm, total length 190mm

**365-001-01**

**365-001-01T** Titan, Titanium



Dissektor, 45° abgewinkelt, rund Ø 2mm, Gesamtlänge 190mm  
Dissector, angled 45°, round, Ø 2mm, total length 190mm

**365-001-02**

**365-001-02T** Titan, Titanium



Dissektor, 45° abgewinkelt, rund Ø 3mm, Gesamtlänge 190mm  
Dissector, angled 45°, round, Ø 3mm, total length 190mm

**365-001-03**

**365-001-03T** Titan, Titanium



Elevatorium, abgewinkelt, 1,2mm breit, Gesamtlänge 190mm  
Elevator, angled, width 1,2mm, total length 190mm

**365-001-04**

**365-001-04T** Titan, Titanium



Elevatorium, gebogen, 2,8mm breit, Gesamtlänge 190mm  
Elevator, curved, width 2,8mm, total length 190mm

**365-001-05**

**365-001-05T** Titan, Titanium



Spatel-Dissektor, 1,0mm breit, Gesamtlänge 190mm  
Spatula-Dissector, width 1,0mm, total length 190mm

**365-001-06**

**365-001-06T** Titan, Titanium



Spatel-Dissektor, 1,5mm breit, Gesamtlänge 190mm  
Spatula-Dissector, width 1,5mm, total length 190mm

**365-001-07**

**365-001-07T** Titan, Titanium



Spatel-Dissektor, 2,0mm breit, Gesamtlänge 190mm  
Spatula-Dissector, width 2,0mm, total length 190mm

**365-001-08**

**365-001-08T** Titan, Titanium

Häkchen, 90° abgewinkelt, 2mm, halbscharf, Gesamtlänge 190mm  
Hook, angled 90°, semi-sharp, total length 190mm

**365-001-09**

**365-001-09T** Titan, Titanium



Häkchen, 90° abgewinkelt, 2mm, stumpf, Gesamtlänge 190mm  
Hook, angled 90°, 2mm, blunt, total length 190mm

**365-001-10**

**365-001-10T** Titan, Titanium



Häkchen, 45° abgewinkelt, 3mm, halbscharf, Gesamtlänge 190mm  
Hook, angled 45°, 3mm, semi-sharp, total length 190mm

**365-001-11**

**365-001-11T** Titan, Titanium



Nadel, gerade, spitz, Gesamtlänge 190mm  
Needle, straight, sharp, total length 190mm

**365-001-12**

**365-001-12T** Titan, Titanium



scharfer Löffel, gerade, 1x2mm oval, Gesamtlänge 190mm  
Curette, straight, 1x2mm oval, total length 190mm

**365-001-13**

**365-001-13T** Titan, Titanium



scharfer Löffel, abgewinkelt, 1x2mm oval, Gesamtlänge 190mm  
Curette, angled, 1x2mm oval, total length 190mm

**365-001-14**

**365-001-14T** Titan, Titanium



Kugel-Dissektor, gerade, Gesamtlänge 190mm  
Ball-dissector straight, total length 190mm

**365-001-15**

**365-001-15T** Titan, Titanium



Kugel Dissektor, 90° abgewinkelt, 3mm, Gesamtlänge 190mm  
Ball-dissector, angled 90°, 3mm, total length 190mm

**365-001-16**

**365-001-16T** Titan, Titanium



Kugel-Dissektor, 90° abgewinkelt, 5mm, Gesamtlänge 190mm  
Ball-dissector, angled 90°, 5mm, total length 190mm

**365-001-17**

**365-001-17T** Titan, Titanium



Kugel-Dissektor, 40° abgewinkelt, 4mm, Gesamtlänge 190mm  
Ball-dissector, angled 40°, 4mm, total length 190mm

**365-001-18**

**365-001-18T** Titan, Titanium



Kugel-Dissektor, 40° abgewinkelt, 8mm, Gesamtlänge 190mm  
Ball-dissector, angled 40°, 8mm, total length 190mm

**365-001-19**

**365-001-19T** Titan, Titanium






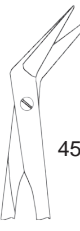



cervicale Mikrodisektomie Kürette  
 cervical micro disectomy curette

	Länge length longitud longueur	Fig.0 3,0mm	Fig.00 2,7mm	Fig.000 2,4mm	Fig.0000 1,6mm
vorwärts, gerade forward, straight	210mm	<b>360-700-21</b>	<b>360-701-21</b>	<b>360-702-21</b>	<b>360-703-21</b>
	240mm	<b>360-700-24</b>	<b>360-701-24</b>	<b>360-702-24</b>	<b>360-703-24</b>
vorwärts, abgewinkelt forward, angled	210mm	<b>360-710-21</b>	<b>360-711-21</b>	<b>360-712-21</b>	<b>360-713-21</b>
	240mm	<b>360-710-24</b>	<b>360-711-24</b>	<b>360-712-24</b>	<b>360-713-24</b>
rückwärts, gerade backward, straight	210mm	<b>360-720-21</b>	<b>360-721-21</b>	<b>360-722-21</b>	<b>360-723-21</b>
	240mm	<b>360-720-24</b>	<b>360-721-24</b>	<b>360-722-24</b>	<b>360-723-24</b>
rückwärts, abgewinkelt backward, angled	210mm	<b>360-730-21</b>	<b>360-731-21</b>	<b>360-732-21</b>	<b>360-733-21</b>
	240mm	<b>360-730-24</b>	<b>360-731-24</b>	<b>360-732-24</b>	<b>360-733-24</b>

lumbale Mikrodisektomie Kürette  
 lumbalr micro disectomy curette

	Länge length longitud longueur	Fig.0 3,0mm	Fig.1 3,5mm	Fig.2 4,0mm
vorwärts, gerade forward, straight	240mm	<b>360-740-24</b>	<b>360-741-24</b>	<b>360-742-24</b>
vorwärts, abgewinkelt forward, up angled	240mm	<b>360-750-24</b>	<b>360-751-24</b>	<b>360-752-24</b>
vorwärts, abwärts foward, down angled	240mm	<b>360-760-24</b>	<b>360-761-24</b>	<b>360-762-24</b>
rückwärts, gerade backward, straight	240mm	<b>360-770-24</b>	<b>360-771-24</b>	<b>360-772-24</b>
rückwärts, abgewinkelt backward, angled	240mm	<b>360-780-24</b>	<b>360-781-24</b>	<b>360-782-24</b>
rückwärts, abwärts backward, down angled	240mm	<b>360-790-24</b>	<b>360-791-24</b>	<b>360-792-24</b>








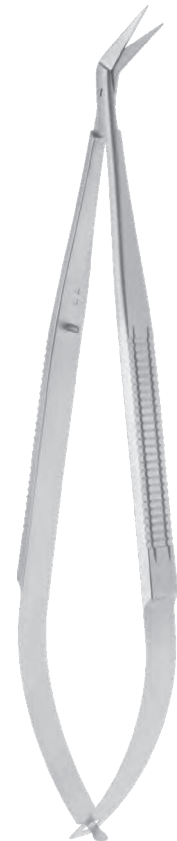
Blatt blade hojas lame	 25°	 45°	 60°	 90°	 125°
geknöpft, 14mm probepointed, 14mm abotonado, 14mm boutonnée, 14mm	<b>126-021</b>	<b>126-023</b>	<b>126-025</b>	<b>126-027</b>	<b>126-029</b>
Standard, 14mm standard, 14mm estándar, 14mm standard, 14mm	<b>126-031</b>	<b>126-033</b>	<b>126-035</b>	<b>126-037</b>	<b>126-039</b>
fein, 10mm delicate, 10mm fina, 10mm fine, 10mm	<b>126-041</b>	<b>126-043</b>	<b>126-045</b>	<b>126-047</b>	<b>126-049</b>
sehr fein, 7mm very delicate, 7mm muy fina, 7mm trés fine, 7mm	<b>126-051</b>	<b>126-053</b>	<b>126-055</b>	<b>126-057</b>	<b>126-059</b>



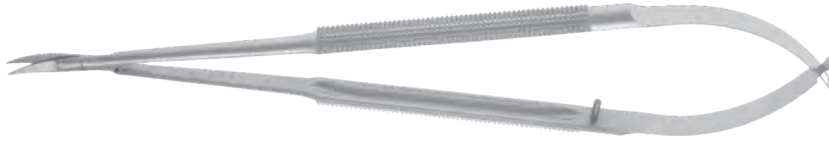
Griff ø 8mm  
handle ø 8mm  
mango ø 8mm  
poignée ø 8mm

180mm, 7"

Blatt blade lame hojas	 25°	 45°	 60°	 90°	 125°
geknöpft, 14mm probepointed, 14mm abotonado, 14mm boutonnée, 14mm	<b>126-061</b>	<b>126-063</b>	<b>126-065</b>	<b>126-067</b>	<b>126-069</b>
Standard, 14mm standard, 14mm estándar, 14mm standard, 14mm	<b>126-071</b>	<b>126-073</b>	<b>126-075</b>	<b>126-077</b>	<b>126-079</b>
fein, 10mm delicate, 10mm fina, 10mm fine, 10mm	<b>126-081</b>	<b>126-083</b>	<b>126-085</b>	<b>126-087</b>	<b>126-089</b>
sehr fein, 7mm very delicate, 7mm muy fina, 7mm trés fine, 7mm	<b>126-091</b>	<b>126-093</b>	<b>126-095</b>	<b>126-097</b>	<b>126-099</b>



180mm, 7"



Blattlänge length of blade largo de la hoja longueur lame	10mm, spitz 10mm, sharp 10mm, punta 10mm, pointu	10mm, spitz 10mm, sharp 10mm, punta 10mm, pointu	10mm, stumpf 10mm, stumpf 10mm, romo 10mm, mousse	10mm, stumpf 10mm, stumpf 10mm, romo 10mm, mousse	14mm, spitz 14mm, sharp 14mm, punta 14mm, pointu	14mm, spitz 14mm, sharp 14mm, punta 14mm, pointu	14mm, stumpf 14mm, stumpf 14mm, romo 14mm, mousse	14mm, stumpf 14mm, stumpf 14mm, romo 14mm, mousse
Gesamtlänge total length longitud total longueur totale	gerade straight recta droite	gebogen curved curva courbée	gerade straight recta droite	gebogen curved curva courbée	gerade straight recta droite	gebogen curved curva courbée	gerade straight recta droite	gebogen curved curva courbée
150mm	<b>127-100-15</b>	<b>127-101-15</b>	<b>127-102-15</b>	<b>127-103-15</b>	<b>127-140-15</b>	<b>127-141-15</b>	<b>127-142-15</b>	<b>127-143-15</b>
180mm	<b>127-100-18</b>	<b>127-101-18</b>	<b>127-102-18</b>	<b>127-103-18</b>	<b>127-140-18</b>	<b>127-141-18</b>	<b>127-142-18</b>	<b>127-143-18</b>
210mm	<b>127-100-21</b>	<b>127-101-21</b>	<b>127-102-21</b>	<b>127-103-21</b>	<b>127-140-21</b>	<b>127-141-21</b>	<b>127-142-21</b>	<b>127-143-21</b>
230mm	<b>127-100-23</b>	<b>127-101-23</b>	<b>127-102-23</b>	<b>127-103-23</b>	<b>127-140-23</b>	<b>127-141-23</b>	<b>127-142-23</b>	<b>127-143-23</b>

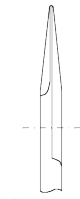


mit gedrehtem Schluss  
streamlined

Blattlänge length of blade largo de la hoja longueur lame	10mm, spitz 10mm, sharp 10mm, punta 10mm, pointu	10mm, spitz 10mm, sharp 10mm, punta 10mm, pointu	10mm, stumpf 10mm, stumpf 10mm, romo 10mm, mousse	10mm, stumpf 10mm, stumpf 10mm, romo 10mm, mousse	14mm, spitz 14mm, sharp 14mm, punta 14mm, pointu	14mm, spitz 14mm, sharp 14mm, punta 14mm, pointu	14mm, stumpf 14mm, stumpf 14mm, romo 14mm, mousse	14mm, stumpf 14mm, stumpf 14mm, romo 14mm, mousse
Gesamtlänge total length longitud total longueur totale	gerade straight recta droite	gebogen curved curva courbée	gerade straight recta droite	gebogen curved curva courbée	gerade straight recta droite	gebogen curved curva courbée	gerade straight recta droite	gebogen curved curva courbée
150mm	<b>127-600-16</b>	<b>127-601-16</b>	<b>127-602-16</b>	<b>127-603-16</b>	<b>127-640-16</b>	<b>127-641-16</b>	<b>127-642-16</b>	<b>127-643-16</b>
180mm	<b>127-600-18</b>	<b>127-601-18</b>	<b>127-602-18</b>	<b>127-603-18</b>	<b>127-640-18</b>	<b>127-641-18</b>	<b>127-642-18</b>	<b>127-643-18</b>
210mm	<b>127-600-21</b>	<b>127-601-21</b>	<b>127-602-21</b>	<b>127-603-21</b>	<b>127-640-21</b>	<b>127-641-21</b>	<b>127-642-21</b>	<b>127-643-21</b>
230mm	<b>127-600-23</b>	<b>127-601-23</b>	<b>127-602-23</b>	<b>127-603-23</b>	<b>127-640-23</b>	<b>127-641-23</b>	<b>127-642-23</b>	<b>127-643-23</b>



**YASARGIL**  
 127-700 - 127-705



**127-700**  
 165mm, 6 1/2"



**127-701**  
 165mm, 6 1/2"



**127-702**  
 200mm, 8"



**127-703**  
 200mm, 8"



**127-705**  
 200mm, 8"



**YASARGIL**  
 127-710 - 127-711



**127-710**  
 200mm, 8"



**127-711**  
 200mm, 8"



**127-730**  
 225mm, 9"



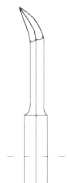
**127-731**  
 225mm, 9"



**127-730Z**  
 225mm, 9"  
 gezahnt  
 serrated  
 dentada  
 dentelées



**127-748**  
 225mm, 9"



**127-749**  
 225mm, 9"



**127-740**  
 225mm, 9"



**127-741**  
 225mm, 9"



**127-736**  
 245mm, 9 3/4"



**127-737**  
 245mm, 9 3/4"



**YASARGIL**  
 127-730 - 127-749

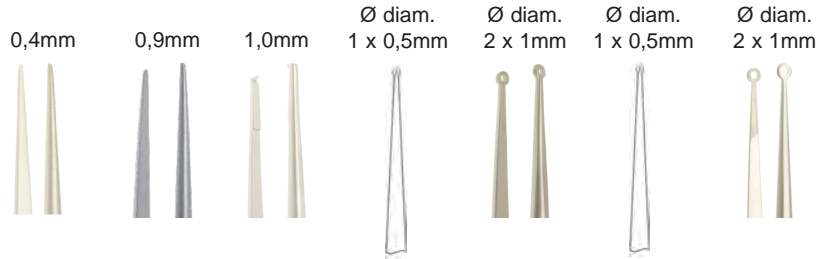


	Länge length longitud longueur	0,3mm ohne Fadenplatte without platform sin plataforma sans plateau		0,3x6mm mit Fadenplatte with platform con plataforma avec plateau		0,3x6mm mit Fadenplatte with platform con plataforma avec plateau	
	150mm 6"	<b>143-300</b>	<b>143-301</b>	<b>143-302</b>	<b>143-303</b>	<b>143-304</b>	<b>143-305</b>
	180mm 7"	<b>143-310</b>	<b>143-311</b>	<b>143-312</b>	<b>143-313</b>	<b>143-314</b>	<b>143-315</b>
	210mm 8 1/4"	<b>143-320</b>	<b>143-321</b>	<b>143-322</b>	<b>143-323</b>	<b>143-324</b>	<b>143-325</b>
	230mm 9"	<b>143-330</b>	<b>143-331</b>	<b>143-332</b>	<b>143-333</b>	<b>143-334</b>	<b>143-335</b>
Maul diamantiert Jaws diamond dusted boca diamantada mors diamanté	150mm 6"	<b>143-300D</b>	<b>143-301D</b>	<b>143-302D</b>	<b>143-303D</b>	<b>143-304D</b>	<b>143-305D</b>
	180mm 7"	<b>143-310D</b>	<b>143-311D</b>	<b>143-312D</b>	<b>143-313D</b>	<b>143-314D</b>	<b>143-315D</b>
	210mm 8 1/4"	<b>143-320D</b>	<b>143-321D</b>	<b>143-322D</b>	<b>143-323D</b>	<b>143-324D</b>	<b>143-325D</b>
	230mm 9"	<b>143-330D</b>	<b>143-331D</b>	<b>143-332D</b>	<b>143-333D</b>	<b>143-334D</b>	<b>143-335D</b>
<b>Auch aus Titan lieferbar, Also available from titanium Tambien suministrable en titanio, Aussi livrable en titane</b>							

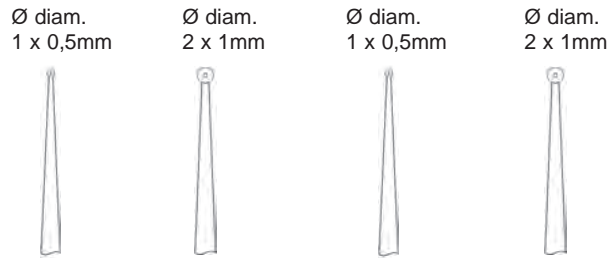
	Länge length longitud longueur	0,7mm ohne Fadenplatte without platform sin plataforma sans plateau		0,7x6mm mit Fadenplatte with platform con plataforma avec plateau		0,7x6mm mit Fadenplatte with platform con plataforma avec plateau	
	150mm 6"	<b>143-340</b>	<b>143-341</b>	<b>143-342</b>	<b>143-343</b>	<b>143-344</b>	<b>143-345</b>
	180mm 7"	<b>143-350</b>	<b>143-351</b>	<b>143-352</b>	<b>143-353</b>	<b>143-354</b>	<b>143-355</b>
	210mm 8 1/4"	<b>143-360</b>	<b>143-361</b>	<b>143-362</b>	<b>143-363</b>	<b>143-364</b>	<b>143-365</b>
	230mm 9"	<b>143-370</b>	<b>143-371</b>	<b>143-372</b>	<b>143-373</b>	<b>143-374</b>	<b>143-375</b>
Maul diamantiert Jaws diamond dusted boca diamantada mors diamanté	150mm 6"	<b>143-340D</b>	<b>143-341D</b>	<b>143-342D</b>	<b>143-343D</b>	<b>143-344D</b>	<b>143-345D</b>
	180mm 7"	<b>143-350D</b>	<b>143-351D</b>	<b>143-352D</b>	<b>143-353D</b>	<b>143-354D</b>	<b>143-355D</b>
	210mm 8 1/4"	<b>143-360D</b>	<b>143-361D</b>	<b>143-362D</b>	<b>143-363D</b>	<b>143-364D</b>	<b>143-365D</b>
	230mm 9"	<b>143-370D</b>	<b>143-371D</b>	<b>143-372D</b>	<b>143-373D</b>	<b>143-374D</b>	<b>143-375D</b>
<b>Auch aus Titan lieferbar, Also available from titanium Tambien suministrable en titanio, Aussi livrable en titane</b>							

**TUMOR- UND GEWEBE PINZETTEN  
TUMOR AND TISSUE GRASPING FORCEPS  
PINZAS PARA TUMORES Y TEJIDOS  
PINCES A TUMEUR ET TISSU**

**ELCON**  
**MICRO**



Länge, length largo, longueur mm, inch.	glatt smooth lisa lisses	glatt smooth lisa lisses	1x2 Zähne 1x2 teeth 1x2 dientes 1x2 griffes	glatt smooth lisa lisses	glatt smooth lisa lisses	gerieft serrated estriado striée	gerieft serrated estriado striée
180mm, 7"	<b>143-800</b>	<b>143-810</b>	<b>143-820</b>				
200mm, 8"	<b>143-802</b>	<b>143-812</b>					
225mm, 9"	<b>143-804</b>	<b>143-814</b>		<b>143-830</b>	<b>143-840</b>	<b>143-832</b>	<b>143-842</b>
240mm, 9 1/2"	<b>143-806</b>	<b>143-816</b>					
Maul diamantiert = D hinter der Kat. Nr. jaws diamond dusted = D behind Cat. No. boca diamantado = D tras del código mors diamanté = D après le numero							
<b>Auch aus Titan lieferbar, Also available from Titan Tambien suministrable en titanio, Aussi livrable en titane</b>							

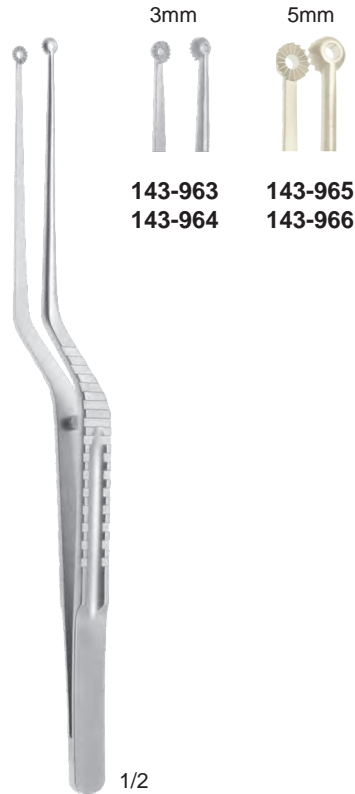


Länge, length largo, longueur mm, inch.	glatt smooth lisa lisses	glatt smooth lisa lisses	gerieft serrated estriado striée	gerieft serrated estriado striée
150mm, 6"	<b>143-400</b>	<b>143-410</b>	<b>143-420</b>	<b>143-430</b>
180mm, 7"	<b>143-402</b>	<b>143-412</b>	<b>143-422</b>	<b>143-432</b>
210mm, 8 1/4"	<b>143-404</b>	<b>143-414</b>	<b>143-424</b>	<b>143-434</b>
230mm, 9"	<b>143-406</b>	<b>143-416</b>	<b>143-426</b>	<b>143-436</b>
Maul diamantiert = D hinter der Kat. Nr. jaws diamond dusted = D behind Cat. No. boca diamantado = D tras del código mors diamanté = D après le numero				
<b>Auch aus Titan lieferbar, Also available from Titan Tambien suministrable en titanio, Aussi livrable en titane</b>				





**HUNT**  
**143-975**  
 200mm, 8"



**YASARGIL**  
**143-963** 200mm, 8" **143-965**  
**143-964** 225mm, 8 7/8" **143-966**









**HUNT**  
**143-971**  
 200mm, 8"









	3mm	5mm	7mm		3mm	5mm	7mm
				löffelförmig spoon shaped forma cuchara forme cuillère			
	<b>YASARGIL - SAMII</b> <b>143-903</b> 240mm, 9 1/2"	<b>143-905</b> 240mm, 9 1/2"	<b>143-907</b> 240mm, 9 1/2"		<b>YASARGIL</b> <b>143-913</b> 225mm, 8 7/8"	<b>YASARGIL</b> <b>143-915</b> 225mm, 8 7/8"	<b>YASARGIL</b> <b>143-917</b> 225mm, 8 7/8"
	3mm	5mm			3mm	5mm	
	<b>YASARGIL</b> <b>143-923</b> 225mm, 8 7/8"	<b>YASARGIL</b> <b>143-925</b> 225mm, 8 7/8"			<b>HEIFETZ</b> <b>143-933</b> 225mm, 8 7/8"	<b>HEIFETZ</b> <b>143-935</b> 225mm, 8 7/8"	

1/2



	Länge length longitud longueur	1,2mm breit width 1,2mm anchura 1,2mm largeur 1,2mm  Grip 0,3mm	1,2mm breit width 1,2mm anchura 1,2mm largeur 1,2mm  Grip 0,3mm	1,5mm breit width 1,5mm anchura 1,5mm largeur 1,5mm  Grip 0,3mm	1,5mm breit width 1,5mm anchura 1,5mm largeur 1,5mm  Grip 0,3mm	1,8mm breit width 1,8mm anchura 1,8mm largeur 1,8mm  Grip 0,3mm	1,8mm breit width 1,8mm anchura 1,8mm largeur 1,8mm  Grip 0,3mm
mit Sperre with lock con cremallera avec crémaillère	150mm	<b>200-720-15</b>	<b>200-721-15</b>	<b>200-722-15</b>	<b>200-723-15</b>	<b>200-724-15</b>	<b>200-725-15</b>
	180mm	<b>200-720-18</b>	<b>200-721-18</b>	<b>200-722-18</b>	<b>200-723-18</b>	<b>200-724-18</b>	<b>200-725-18</b>
	210mm	<b>200-720-21</b>	<b>200-721-21</b>	<b>200-722-21</b>	<b>200-723-21</b>	<b>200-724-21</b>	<b>200-725-21</b>
	230mm	<b>200-720-23</b>	<b>200-721-23</b>	<b>200-722-23</b>	<b>200-723-23</b>	<b>200-724-23</b>	<b>200-725-23</b>
ohne Sperre without ratchet sin cremallera sans crémaillère	150mm	<b>200-760-15</b>	<b>200-761-15</b>	<b>200-762-15</b>	<b>200-763-15</b>	<b>200-764-15</b>	<b>200-765-15</b>
	180mm	<b>200-760-18</b>	<b>200-761-18</b>	<b>200-762-18</b>	<b>200-763-18</b>	<b>200-764-18</b>	<b>200-765-18</b>
	210mm	<b>200-760-21</b>	<b>200-761-21</b>	<b>200-762-21</b>	<b>200-763-21</b>	<b>200-764-21</b>	<b>200-765-21</b>
	230mm	<b>200-760-23</b>	<b>200-761-23</b>	<b>200-762-23</b>	<b>200-763-23</b>	<b>200-764-23</b>	<b>200-765-23</b>



	Länge length longitud longueur	1,2mm breit width 1,2mm anchura 1,2mm largeur 1,2mm 	1,2mm breit width 1,2mm anchura 1,2mm largeur 1,2mm 	1,5mm breit width 1,5mm anchura 1,5mm largeur 1,5mm 	1,5mm breit width 1,5mm anchura 1,5mm largeur 1,5mm 	1,8mm breit width 1,8mm anchura 1,8mm largeur 1,8mm 	1,8mm breit width 1,8mm anchura 1,8mm largeur 1,8mm 
mit Sperre with lock con cremallera avec crémaillère	150mm	<b>200-730-15</b>	<b>200-731-15</b>	<b>200-732-15</b>	<b>200-733-15</b>	<b>200-734-15</b>	<b>200-735-15</b>
	180mm	<b>200-730-18</b>	<b>200-731-18</b>	<b>200-732-18</b>	<b>200-733-18</b>	<b>200-734-18</b>	<b>200-735-18</b>
	210mm	<b>200-730-21</b>	<b>200-731-21</b>	<b>200-732-21</b>	<b>200-733-21</b>	<b>200-734-21</b>	<b>200-735-21</b>
	230mm	<b>200-730-23</b>	<b>200-731-23</b>	<b>200-732-23</b>	<b>200-733-23</b>	<b>200-734-23</b>	<b>200-735-23</b>
ohne Sperre without ratchet sin cremallera sans crémaillère	150mm	<b>200-770-15</b>	<b>200-771-15</b>	<b>200-772-15</b>	<b>200-773-15</b>	<b>200-774-15</b>	<b>200-775-15</b>
	180mm	<b>200-770-18</b>	<b>200-771-18</b>	<b>200-772-18</b>	<b>200-773-18</b>	<b>200-774-18</b>	<b>200-775-18</b>
	210mm	<b>200-770-21</b>	<b>200-771-21</b>	<b>200-772-21</b>	<b>200-773-21</b>	<b>200-774-21</b>	<b>200-775-21</b>
	230mm	<b>200-770-23</b>	<b>200-771-23</b>	<b>200-772-23</b>	<b>200-773-23</b>	<b>200-774-23</b>	<b>200-775-23</b>



	Länge length longitud longueur	Grip 0,2mm	Grip 0,2mm		
mit Sperre with lock con cremallera avec crémaillère	140mm	<b>200-610</b>	<b>200-612</b>	<b>200-611</b>	<b>200-613</b>











	Länge length longitud longueur	Grip 0,3mm	Grip 0,3mm		
mit Sperre with lock con cremallera avec crémaillère	180mm	<b>200-642</b>	<b>200-643</b>	<b>200-646</b>	<b>200-647</b>
	210mm	<b>200-652</b>	<b>200-653</b>	<b>200-656</b>	<b>200-657</b>
	225mm	<b>200-662</b>	<b>200-663</b>	<b>200-666</b>	<b>200-667</b>
ohne Sperre without ratchet sin cremallera sans crémaillère	180mm	<b>200-640</b>	<b>200-641</b>	<b>200-644</b>	<b>200-645</b>
	210mm	<b>200-650</b>	<b>200-651</b>	<b>200-654</b>	<b>200-655</b>
	225mm	<b>200-660</b>	<b>200-661</b>	<b>200-664</b>	<b>200-665</b>











	Länge length longitud longueur				
ohne Sperre without ratchet sin cremallera sans crémaillère	200mm	<b>207-700</b>	<b>200-701</b>	<b>207-702</b>	<b>207-703</b>
	225mm	<b>207-710</b>	<b>200-711</b>	<b>207-712</b>	<b>207-713</b>
	240mm	<b>207-720</b>	<b>207-721</b>	<b>207-722</b>	<b>207-723</b>
Maul diamantiert, jaws diamond dusted, boca diamantada, mors diamanté					
ohne Sperre without ratchet sin cremallera sans crémaillère	200mm	<b>207-700D</b>	<b>200-701D</b>	<b>207-702D</b>	<b>207-703D</b>
	225mm	<b>207-710D</b>	<b>207-711D</b>	<b>207-712D</b>	<b>207-713D</b>
	240mm	<b>207-720D</b>	<b>207-721D</b>	<b>207-722D</b>	<b>207-723D</b>





	ohne Sperre, without ratchet, sin cremallera, sans crémaillère				mit Sperre, with lock, con cremallera, avec crémaillère			
Länge length longitud longueur	11x0,4mm 	11x0,4mm 	11x0,8mm 	11x0,8mm 	11x0,4mm 	11x0,4mm 	11x0,8mm 	11x0,8mm 
150mm, 6"	<b>207-300</b>	<b>207-301</b>	<b>207-304</b>	<b>207-305</b>	<b>207-302</b>	<b>207-303</b>	<b>207-306</b>	<b>207-307</b>
180mm, 7"	<b>207-310</b>	<b>207-311</b>	<b>207-314</b>	<b>207-315</b>	<b>207-312</b>	<b>207-313</b>	<b>207-316</b>	<b>207-317</b>
210mm, 8 1/4"			<b>207-324</b>	<b>207-325</b>			<b>207-326</b>	<b>207-327</b>
230mm, 9"			<b>207-334</b>	<b>207-335</b>			<b>207-336</b>	<b>207-337</b>
Maul diamantiert, jaws diamond dusted, boca diamantada, mors diamanté								
	ohne Sperre, without ratchet, sin cremallera, sans crémaillère				mit Sperre, with lock, con cremallera, avec crémaillère			
150mm, 6"	<b>207-300D</b>	<b>207-301D</b>	<b>207-304D</b>	<b>207-305D</b>	<b>207-302D</b>	<b>207-303D</b>	<b>207-306D</b>	<b>207-307D</b>
180mm, 7"	<b>207-310D</b>	<b>207-311D</b>	<b>207-314D</b>	<b>207-315D</b>	<b>207-312D</b>	<b>207-313D</b>	<b>207-316D</b>	<b>207-317D</b>
210mm, 8 1/4"			<b>207-324D</b>	<b>207-325D</b>			<b>207-326D</b>	<b>207-327D</b>
230mm, 9"			<b>207-334D</b>	<b>207-335D</b>			<b>207-336D</b>	<b>207-337D</b>

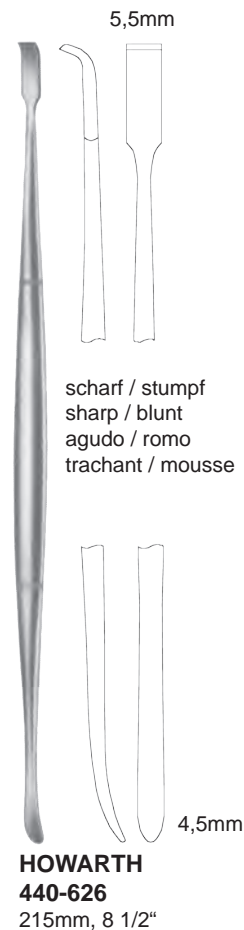
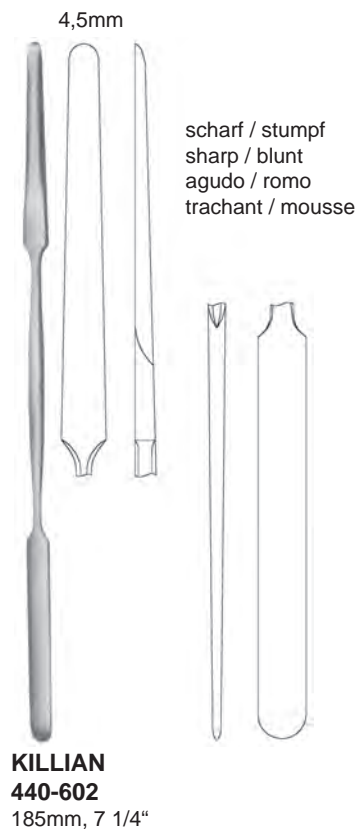
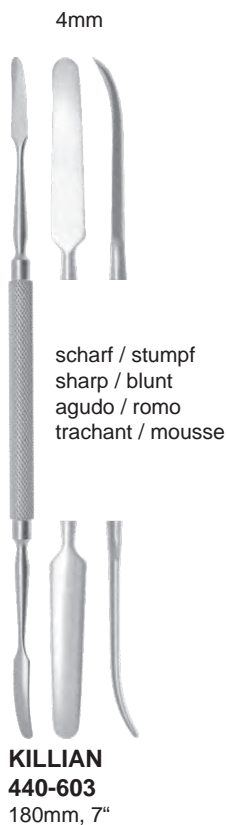
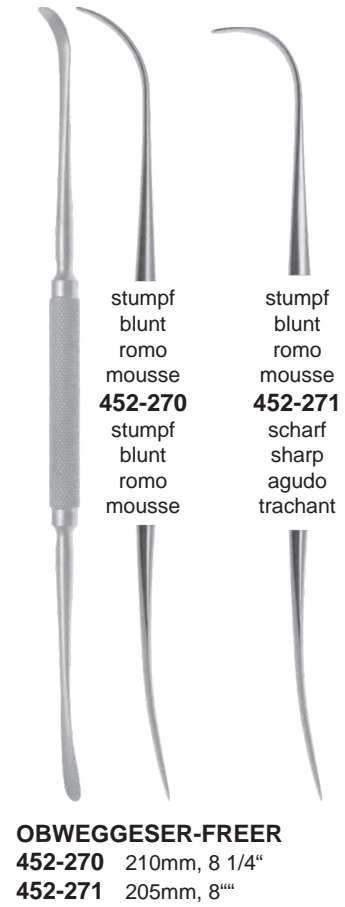
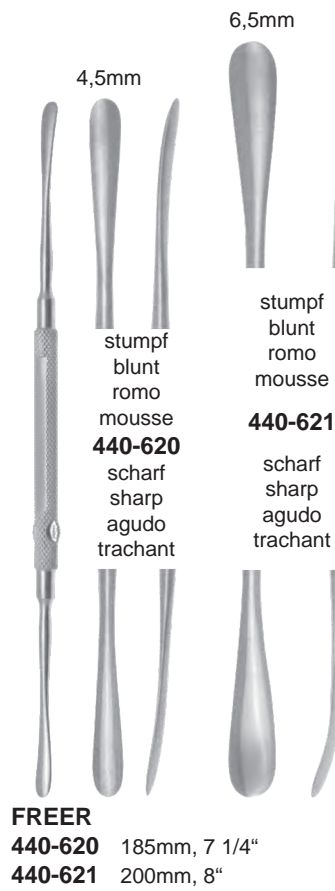
<b>TITAN Micro Nadelhalter, TITANIUM Micro Needle Holders, Micro-porta agujas en TITANIO, Micro porte aiguille en TITANE</b>								
	ohne Sperre, without ratchet, sin cremallera, sans crémaillère				mit Sperre, with lock, con cremallera, avec crémaillère			
Länge length longitud longueur	11x0,4mm 	11x0,4mm 	11x0,8mm 	11x0,8mm 	11x0,4mm 	11x0,4mm 	11x0,8mm 	11x0,8mm 
150mm, 6"	<b>207-300T</b>	<b>207-301T</b>	<b>207-304T</b>	<b>207-305T</b>	<b>207-302T</b>	<b>207-303T</b>	<b>207-306T</b>	<b>207-307T</b>
180mm, 7"	<b>207-310T</b>	<b>207-311T</b>	<b>207-314T</b>	<b>207-315T</b>	<b>207-312T</b>	<b>207-313T</b>	<b>207-316T</b>	<b>207-317T</b>
210mm, 8 1/4"			<b>207-324T</b>	<b>207-325T</b>			<b>207-326T</b>	<b>207-327T</b>
Maul diamantiert, jaws diamond dusted, boca diamantada, mors diamanté								
	ohne Sperre, without ratchet, sin cremallera, sans crémaillère				mit Sperre, with lock, con cremallera, avec crémaillère			
150mm, 6"	<b>207-300TD</b>	<b>207-301TD</b>	<b>207-304TD</b>	<b>207-305TD</b>	<b>207-302TD</b>	<b>207-303TD</b>	<b>207-306TD</b>	<b>207-307TD</b>
180mm, 7"	<b>207-310TD</b>	<b>207-311TD</b>	<b>207-314TD</b>	<b>207-315TD</b>	<b>207-312TD</b>	<b>207-313TD</b>	<b>207-316TD</b>	<b>207-317TD</b>
210mm, 8 1/4"			<b>207-324TD</b>	<b>207-325TD</b>			<b>207-326TD</b>	<b>207-327TD</b>

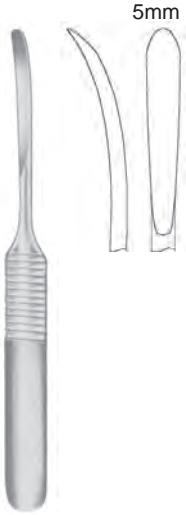


mit gedrehtem Schluss  
streamlined

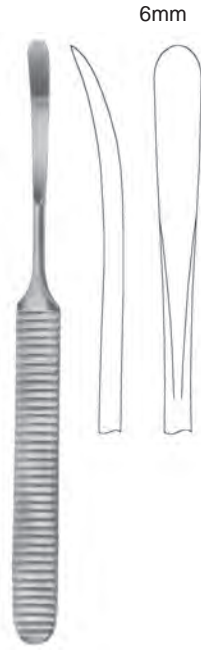
	ohne Sperre, without ratchet, sin cremallera, sans crémaillère				mit Sperre, with lock, con cremallera, avec crémaillère			
Länge length longitud longueur	11x0,4mm 	11x0,4mm 	11x0,8mm 	11x0,8mm 	11x0,4mm 	11x0,4mm 	11x0,8mm 	11x0,8mm 
150mm, 6"	<b>207-100</b>	<b>207-101</b>	<b>207-104</b>	<b>207-105</b>	<b>207-102</b>	<b>207-103</b>	<b>207-106</b>	<b>207-107</b>
180mm, 7"	<b>207-120</b>	<b>207-121</b>	<b>207-124</b>	<b>207-125</b>	<b>207-122</b>	<b>207-123</b>	<b>207-126</b>	<b>207-127</b>
210mm, 8 1/4"			<b>207-134</b>	<b>207-135</b>			<b>207-136</b>	<b>207-137</b>
230mm, 9"			<b>207-144</b>	<b>207-145</b>			<b>207-146</b>	<b>207-147</b>
Maul diamantiert, jaws diamond dusted, boca diamantada, mors diamanté								
	ohne Sperre, without ratchet, sin cremallera, sans crémaillère				mit Sperre, with lock, con cremallera, avec crémaillère			
150mm, 6"	<b>207-100D</b>	<b>207-101D</b>	<b>207-104D</b>	<b>207-105D</b>	<b>207-102D</b>	<b>207-103D</b>	<b>207-106D</b>	<b>207-107D</b>
180mm, 7"	<b>207-120D</b>	<b>207-121D</b>	<b>207-124D</b>	<b>207-125D</b>	<b>207-122D</b>	<b>207-123D</b>	<b>207-126D</b>	<b>207-207D</b>
210mm, 8 1/4"			<b>207-134D</b>	<b>207-135D</b>			<b>207-136D</b>	<b>207-137D</b>
230mm, 9"			<b>207-144D</b>	<b>207-145D</b>			<b>207-146D</b>	<b>207-147D</b>

TITAN Micro Nadelhalter, TITANIUM Micro Needle Holders, Micro-porta agujas en TITANIO, Micro porte aiguille en TITANE								
	ohne Sperre, without ratchet, sin cremallera, sans crémaillère				mit Sperre, with lock, con cremallera, avec crémaillère			
Länge length longitud longueur	11x0,4mm 	11x0,4mm 	11x0,8mm 	11x0,8mm 	11x0,4mm 	11x0,4mm 	11x0,8mm 	11x0,8mm 
150mm, 6"	<b>207-100T</b>	<b>207-101T</b>	<b>207-104T</b>	<b>207-105T</b>	<b>207-102T</b>	<b>207-103T</b>	<b>207-106T</b>	<b>207-107T</b>
180mm, 7"	<b>207-120T</b>	<b>207-121T</b>	<b>207-124T</b>	<b>207-125T</b>	<b>207-122T</b>	<b>207-123T</b>	<b>207-126T</b>	<b>207-127T</b>
210mm, 8 1/4"			<b>207-134T</b>	<b>207-135T</b>			<b>207-136T</b>	<b>207-137T</b>
Maul diamantiert, jaws diamond dusted, boca diamantada, mors diamanté								
	ohne Sperre, without ratchet, sin cremallera, sans crémaillère				mit Sperre, with lock, con cremallera, avec crémaillère			
150mm, 6"	<b>207-100TD</b>	<b>207-101TD</b>	<b>207-104TD</b>	<b>207-105TD</b>	<b>207-102TD</b>	<b>207-103TD</b>	<b>207-106TD</b>	<b>207-107TD</b>
180mm, 7"	<b>207-120TD</b>	<b>207-121TD</b>	<b>207-124TD</b>	<b>207-125TD</b>	<b>207-122TD</b>	<b>207-123TD</b>	<b>207-126TD</b>	<b>207-127TD</b>
210mm, 8 1/4"			<b>207-134TD</b>	<b>207-135TD</b>			<b>207-136TD</b>	<b>207-137TD</b>





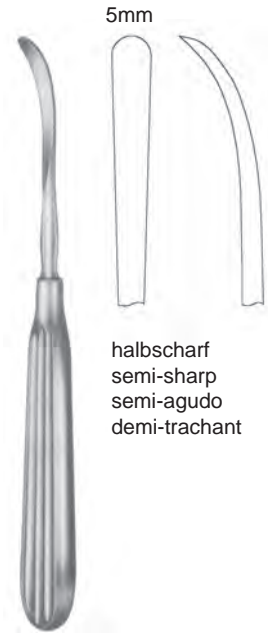
**WILLIGER**  
**410-300**  
130mm, 5"



**WILLIGER**  
**410-302**  
160mm, 6 1/4"



**KÖNIG**  
**410-306**  
155mm, 6"



**LOVE-ADSON**  
**340-966**  
170mm, 6 3/4"

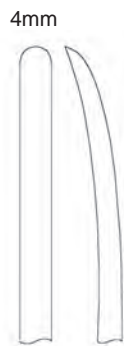
halbscharf  
semi-sharp  
semi-agudo  
demi-trachant



**ADSON**  
**340-954**  
165mm, 6 1/2"



**CUSHING**  
**340-912 - 340-915**



**340-912**  
175mm, 7"



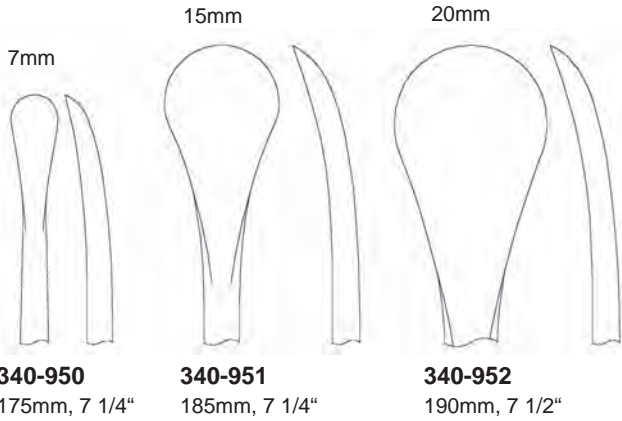
**340-913**  
175mm, 7"



**340-914**  
195mm, 7 3/4"



**340-915**  
195mm, 7 3/4"



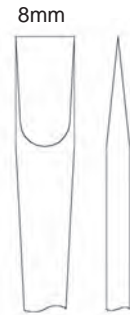
**340-950**  
 175mm, 7 1/4"

**340-951**  
 185mm, 7 1/4"

**340-952**  
 190mm, 7 1/2"

voller Griff  
 solid handle  
 mango pleno  
 manche massive

**HOEN**  
**340-950 - 340-952**



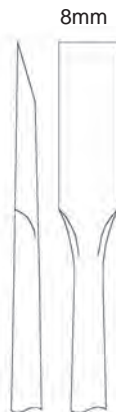
voller Griff  
 solid handle  
 mango pleno  
 manche massive

**CUSHING**  
**340-929**  
 170mm, 6 3/4"



**CUSHING**  
**340-910**  
 150mm, 6"  
 (Little Joker)

**PENNYBAKER**  
**340-935**  
 165mm, 6 1/2"



**ADSON**  
**340-960 - 340-963**  
 170mm, 6 3/4"

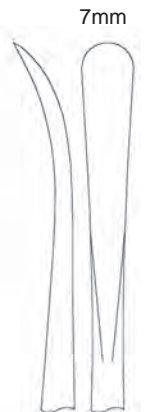
**340-960**  
 scharf  
 sharp  
 agudo  
 trachant



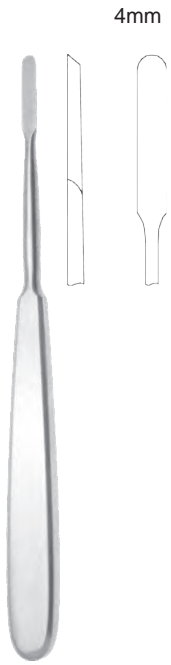
**340-961**  
 stumpf  
 blunt  
 romo  
 mousse



**340-962**  
 halbscharf  
 semi-sharp  
 semi-agudo  
 demi trachant



**340-963**  
 halbscharf  
 semi-sharp  
 semi-agudo  
 demi trachant



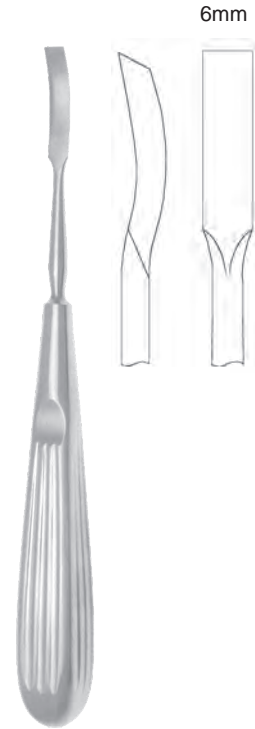
**JOSEPH**  
**450-698**  
160mm, 6 1/4"



**JOSEPH**  
**450-706**  
160mm, 6 1/4"



**JOSEPH**  
**450-707**  
180mm, 7"



**LEMPERT**  
**431-517**  
180mm, 7"



**LEMPERT**  
**431-515**  
205mm, 8"



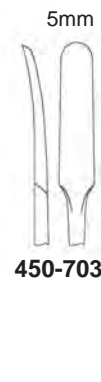
**450-700**



**450-701**

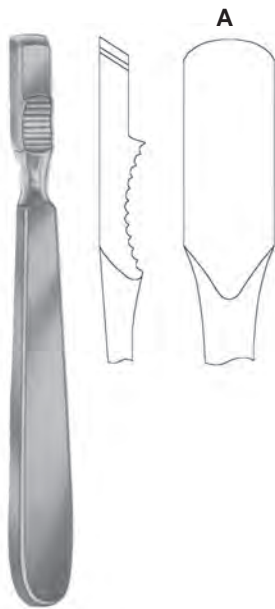


**450-702**



**450-703**

**LEMPERT**  
**450-700 - 450-703**  
170mm, 6 3/4"



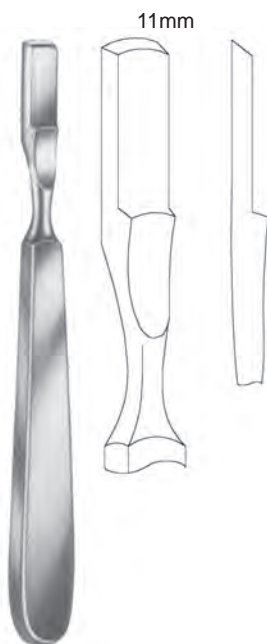
**FARABEU**  
 410-330-04 - 410-330-16  
 150mm, 6"



**FARABEU**  
 410-331-04 - 410-331-16  
 150mm, 6"



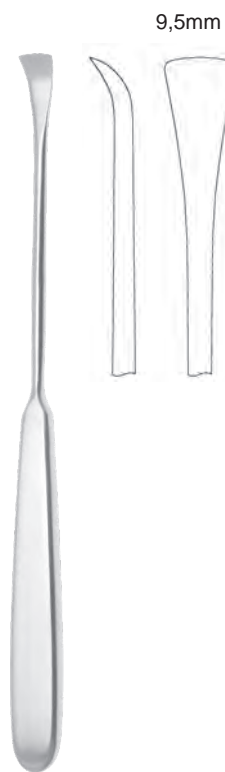
**MITCHELLS**  
 410-318  
 210mm, 8 1/4"



**FARABEU-COLLIN**  
 410-336  
 160mm, 6 1/4"



**FARABEU-COLLIN**  
 410-337  
 160mm, 6 1/4"



**410-320**  
 190mm, 7 1/2"



**LAMBOTTE**  
 410-350 5mm  
 410-351 10mm  
 410-352 15mm  
 410-353 20mm  
 410-354 25mm  
 215mm, 8 1/2"



**410-384**  
190mm, 7 1/2"



**410-385**  
185mm, 7 1/4"



**410-382**  
185mm, 7 1/4"



**410-383**  
185mm, 7 1/4"



**410-388**  
190mm, 7 1/2"



**410-380**  
200mm, 8"



**410-381**  
190mm, 7 1/2"



**410-387**  
200mm, 8"



10mm



**410-140**

13mm



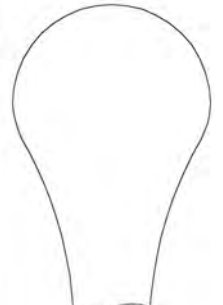
**410-141**

19mm



**410-142**

25mm



**410-143**

8mm



**410-144**

10mm



**410-145**

12mm



**410-146**

4mm



**410-147**

6mm



**410-148**

8mm



**410-149**



**COBB**

**410-144** 8mm  
**410-145** 10mm  
**410-146** 12mm  
 280mm, 11"

**COBB**

**410-147** 4mm  
**410-148** 6mm  
**410-149** 8mm  
 270mm, 10 3/4"

**COBB**

**410-140** 10mm  
**410-141** 13mm  
**410-142** 19mm  
**410-143** 25mm  
 240mm, 9 1/2"



**SPRATT**  
441-290 - 441-297  
170mm, 6 3/4"

2,0mm 0000 441-290	2,3mm 000 441-291	3,0mm 00 441-292	3,4mm 0 441-293	4,0mm 1 441-294
	5,5mm 2 441-295	6,2mm 3 441-296	7,0mm 4 441-297	



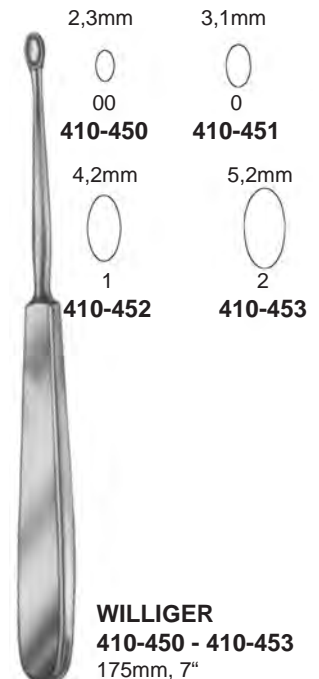
**SIMON**  
410-5710 - 410-5713  
240mm, 9 1/2"

2,4mm 0000 410-5710	
3,2mm 000 410-5711	
4,2mm 00 410-5712	
5,2mm 0 410-5713	



**SCHEDE**  
410-560 - 410-566  
170mm, 6 3/4"

2,5mm 000 410-560	3,4mm 00 410-561	4,2mm 0 410-562	5,2mm 1 410-563	6,3mm 2 410-564
7,4mm 3 410-565	8,0mm 4 410-566			












**WILLIGER**  
410-450 - 410-453  
175mm, 7"

2,3mm 00 410-450	3,1mm 0 410-451
4,2mm 1 410-452	5,2mm 2 410-453

SCHARFE LÖFFEL  
 BONE CURETTES  
 CUCHARILLAS CORTANTES  
 CURETTES TRANCHANTES

**ELCON**  
**MICRO**

2,5mm	3,0mm	3,5mm	4,0mm	5,0mm	6,0mm	8,0mm	9,0mm	10,5mm
								
000	00	0	1	2	3	4	5	6
<b>410-520</b>	<b>410-521</b>	<b>410-522</b>	<b>410-523</b>	<b>410-524</b>	<b>410-525</b>	<b>410-526</b>	<b>410-527</b>	<b>410-528</b>
<b>410-530</b>	<b>410-531</b>	<b>410-532</b>	<b>410-533</b>	<b>410-534</b>	<b>410-535</b>	<b>410-536</b>	<b>410-537</b>	<b>410-538</b>
<b>341-620</b>	<b>341-621</b>	<b>341-622</b>	<b>341-623</b>	<b>341-624</b>	<b>341-625</b>	<b>341-626</b>	<b>341-627</b>	<b>341-628</b>
<b>341-630</b>	<b>341-631</b>	<b>341-632</b>	<b>341-633</b>	<b>341-634</b>	<b>341-635</b>	<b>341-636</b>	<b>341-637</b>	<b>341-638</b>



**SPINAL**  
**341-620 - 341-628**  
 200mm, 8"



**SPINAL**  
**341-630 - 341-638**  
 200mm, 8"



**BRUNS**  
**410-520 - 410-528**  
 230mm, 9"



**BRUNS**  
**410-530 - 410-538**  
 230mm, 9"



**BOEHLER**  
411-600 - 411-605  
150mm, 6"



**MAYFIELD**  
411-611 170mm, 6 3/4"



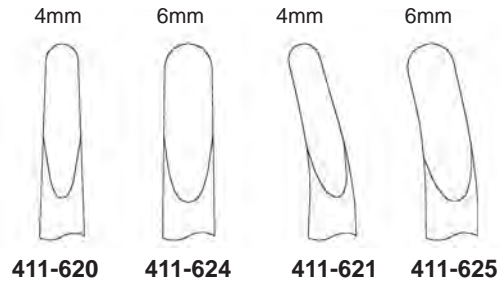
**ZAUFGAL-JANSEN**  
411-617 180mm, 7"



**BEYER**  
411-613 - 411-615  
180mm, 7"



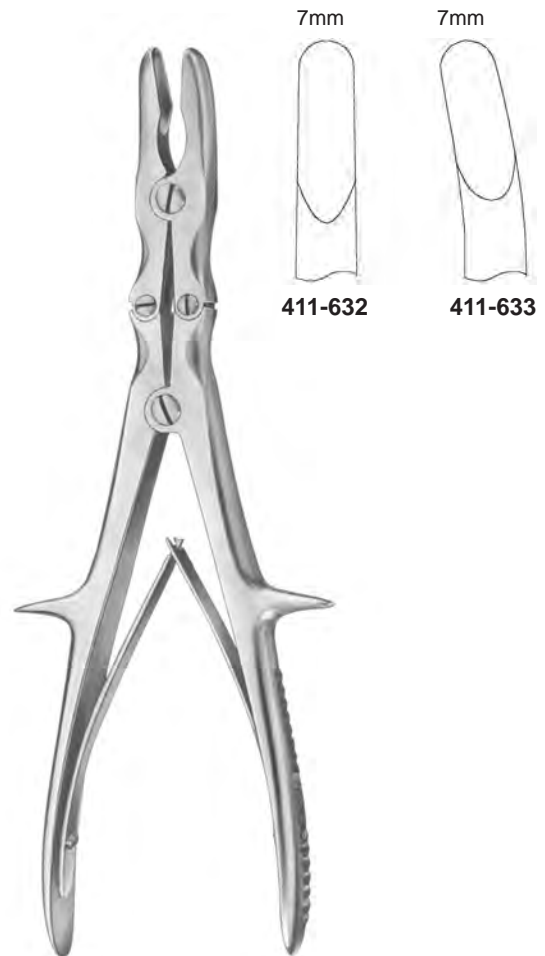
**MARQUART**  
411-619 200mm, 8"



**RUSKIN**  
 411-620 - 411-625  
 180mm, 7"



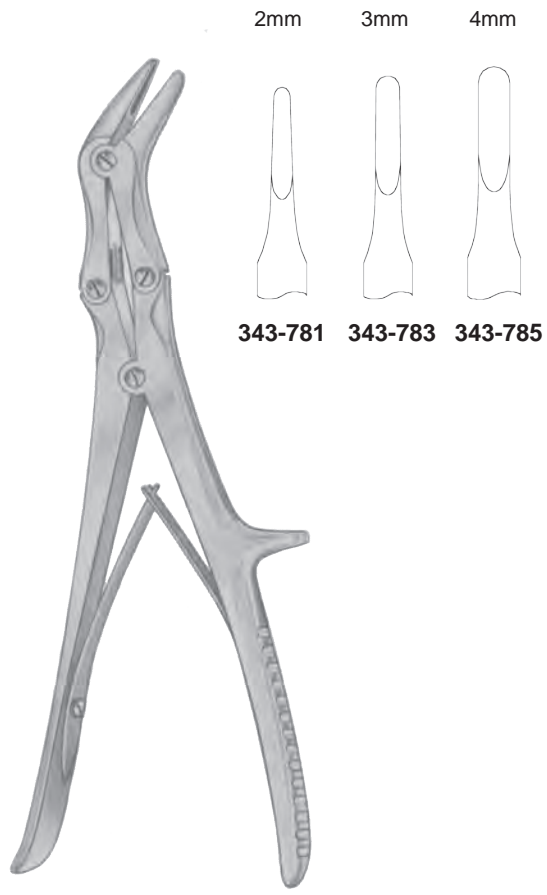
**ROETTGEN-RUSKIN**  
 411-631 240mm, 9 1/2"



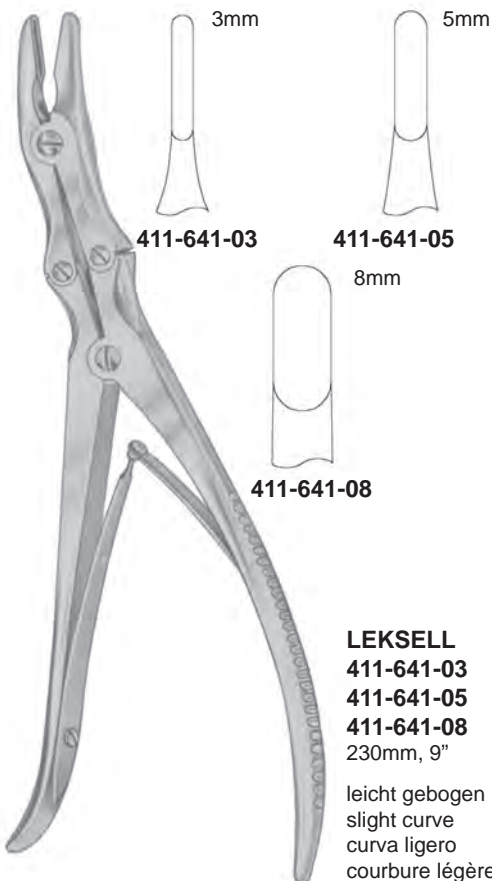
**RUSKIN-STILLE**  
 411-632 - 411-633  
 240mm, 9 1/2"



**STILLE**  
411-651 230mm, 9"

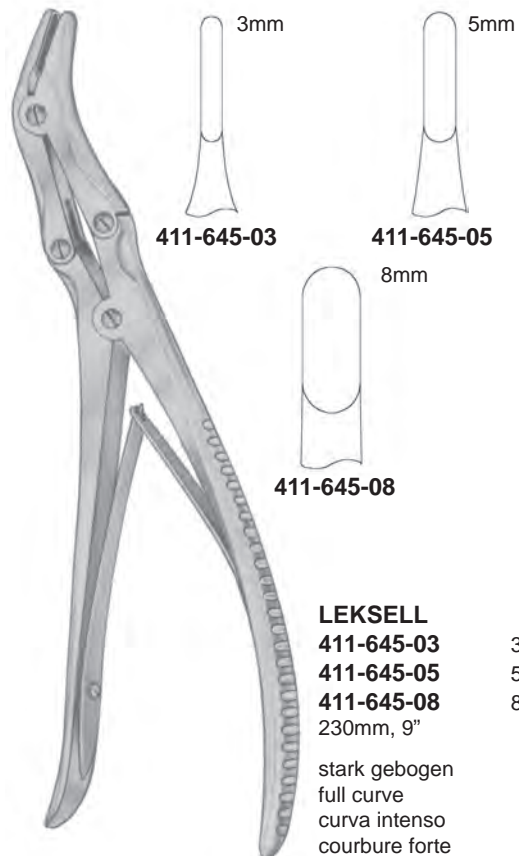


**ECHLIN**  
343-781 - 343-785  
230mm, 9"



**LEKSELL**  
411-641-03 3mm  
411-641-05 5mm  
411-641-08 8mm  
230mm, 9"

leicht gebogen  
slight curve  
curva ligero  
courbure légère



**LEKSELL**  
411-645-03 3mm  
411-645-05 5mm  
411-645-08 8mm  
230mm, 9"

stark gebogen  
full curve  
curva intenso  
courbure forte

## Merkmale des Clip

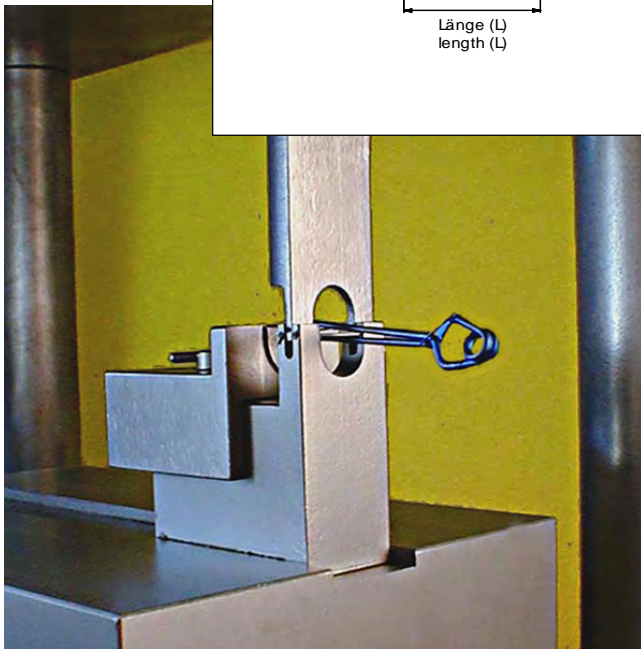
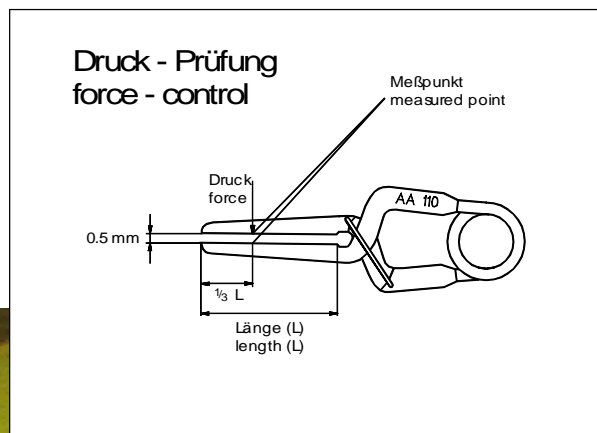
### Schließkraft

- Die Schließkraft wird bei einem Drittel der Maullänge und 0,5mm Öffnung gemessen.
- Die Endkontrolle des Clip wird mit einer computergesteuerten Meßanlage durchgeführt.
- Die Schließkraft wird exakt innerhalb einer bestimmten Toleranz angegeben.
- Ein Computerprogramm stellt sicher, daß nur Clips mit einer zuvor fixierten Schließkraft die Endkontrolle passieren, eine Manipulation ist ausgeschlossen.
- Während des Kontrollvorgangs werden alle relevanten technischen Daten gespeichert und auf einem Etikett (Labeling) ausgedruckt.

## Features of the Clip

### Closing - Force

- the closing force is measured at one third of the jaw length and an opening of 0.5mm.
- The final quality control of the clip is effected by a microprocessor - controlled measuring equipment.
- The closing force is indicated exactly within a certain tolerance.
- By the help of a special software program we assure that before the clip passes the final quality control its closure force is fixed
- As a consequence we exclude any kind of manipulation.
- All relevant technical data are stored during the control procedure and printed on the label.



## Material und Qualitätssicherung

Zur Herstellung unserer Aneurysm Clips werden folgende Materialien verwendet:

- Titan - Ti 6Al 4V / DIN ISO 5832-3
- Implantatstahl - 1.4441 / DIN ISO 17443

für beide Materialien treffen folgende Eigenschaften zu:

- Hohe Festigkeit
- Sehr gute Gewebeverträglichkeit
- Sicherer Verschluss der Gefäße
- Antimagnetisch
- Bestens geeignet als Implantatwerkstoff
- Sicherheit gegen Überbeanspruchung

## Material and Quality Assurance

Following materials are used for the production of our Aneurysm Clips

- Titan - Ti 6Al 4V / DIN ISO 5832-3
- Implant Steel - 1.4441 / DIN ISO 17443

for both materials, the following qualities apply:

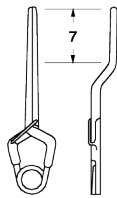
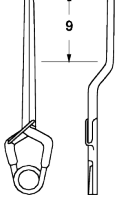
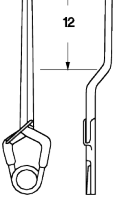
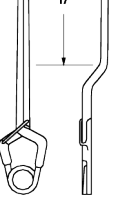
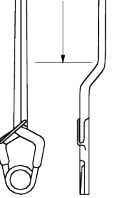
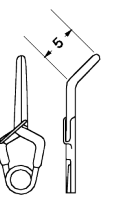
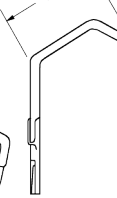
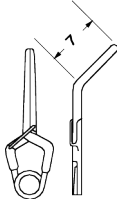
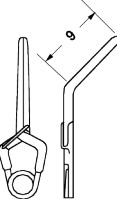
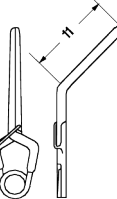
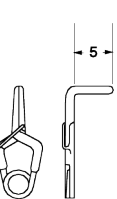
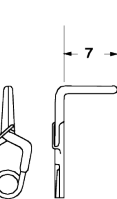
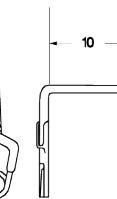
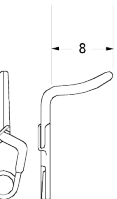
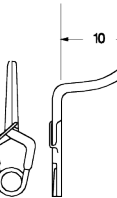
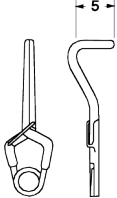
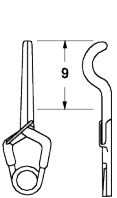
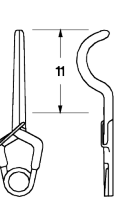
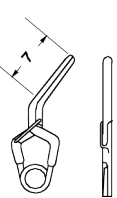
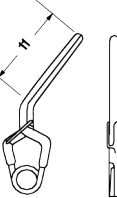
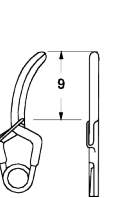
- High mechanical solidity
- Excellent tissue compatibility
- Secure lock of the vessels
- Nonmagnetic
- Suitable in the best possible way as a implant material
- Safety against overstrain

für permanenten Verschluss  
 for permanent closure  
 para oclusión permanente  
 pour occlusion permanente

Titan Titanium	367-740T	367-750T	367-760T	367-780T	367-792T	367-790T
Impl. Stahl impl. steel	367-740	367-750	367-760	367-780	367-792	367-790
Form shape						
max. Öffnung max opening	6,2mm	7,0mm	7,8mm	9,2mm	10,6mm	11,4mm
Druck force	150g	180g	180g	200g	200g	200g
<b>367-840T</b>	<b>367-742T</b>	<b>367-752T</b>	<b>367-762T</b>	<b>367-782T</b>	<b>367-895T</b>	<b>367-744T</b>
367-840	367-742	367-752	367-762	367-782	367-895	367-744
13,3mm	6,0mm	6,8mm	7,5mm	8,7mm	11,0mm	5,5mm
200g	150g	180g	180g	200g	200g	150g
<b>367-754T</b>	<b>367-764T</b>	<b>367-784T</b>	<b>367-896T</b>	<b>367-823T</b>	<b>367-824T</b>	<b>367-825T</b>
367-754	367-764	367-784	367-896	367-823	367-824	367-825
6,1mm	6,5mm	7,4mm	9,9mm	5,4mm	5,8mm	6,2mm
180g	180g	200g	200g	180g	180g	180g



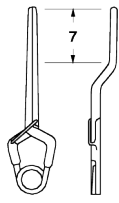
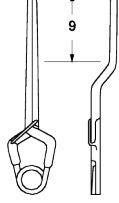
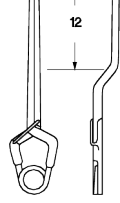
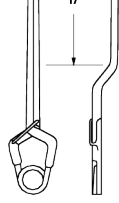
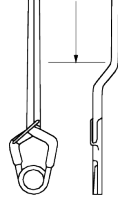
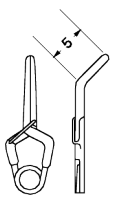
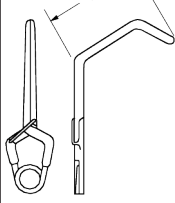
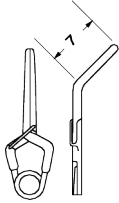
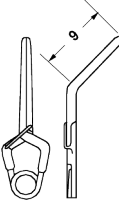
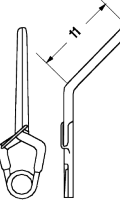
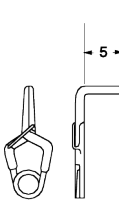
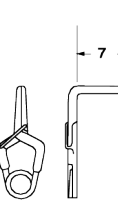
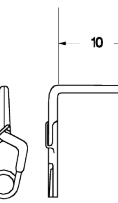
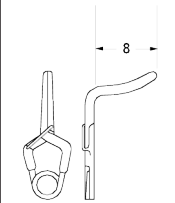
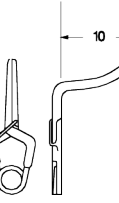
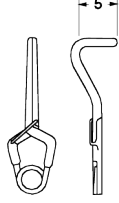
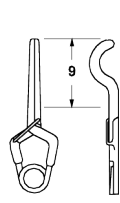
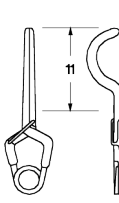
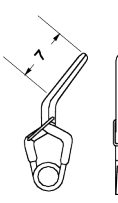
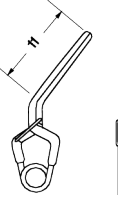
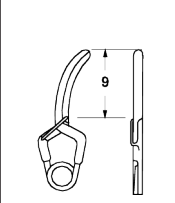
für permanenten Verschluß  
 for permanent closure  
 para oclusión permanente  
 pour occlusion permanente

<b>367-748T</b>	<b>367-758T</b>	<b>367-759T</b>	<b>367-797T</b>	<b>367-798T</b>	<b>367-603T</b>	<b>367-897T</b>
367-748	<b>367-758</b>	<b>367-759</b>	<b>367-797</b>	<b>367-798</b>	<b>367-603</b>	<b>367-897</b>
						
7,9mm	8,7mm	10,2mm	11,9mm	13,0mm	6,2mm	7,5mm
200g	200g	200g	180g	180g	200g	200g
<b>367-613T</b>	<b>367-623T</b>	<b>367-763T</b>	<b>367-819T</b>	<b>367-820T</b>	<b>367-822T</b>	<b>367-850T</b>
367-613	<b>367-623</b>	<b>367-763</b>	<b>367-819</b>	<b>367-820</b>	<b>367-822</b>	<b>367-850</b>
						
6,5mm	7,8mm	8,4mm	5,6mm	5,6mm	5,6mm	5,4mm
200g	200g	200g	200g	200g	200g	200g
<b>367-851T</b>	<b>367-830T</b>	<b>367-832T</b>	<b>367-833T</b>	<b>367-746T</b>	<b>367-761T</b>	<b>367-747T</b>
367-851	<b>367-830</b>	<b>367-832</b>	<b>367-833</b>	<b>367-746</b>	<b>367-761</b>	<b>367-747</b>
						
5,6mm	7,2mm	7,2mm	8,2mm	5,7mm	8,0mm	6,2mm
200g	200g	200g	200g	200g	200g	200g

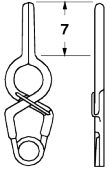
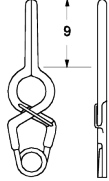
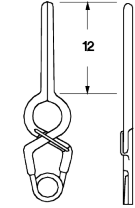
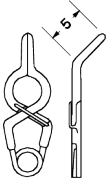
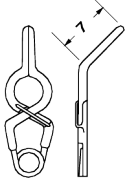
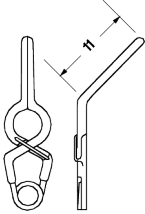
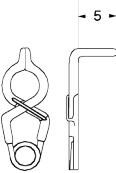
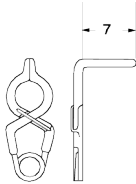
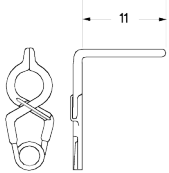
für temporären Verschuß  
 for temporary closure  
 para oclusión temporal  
 pour occlusion temporaire

Titan Titanium	367-240T	367-250T	367-260T	367-280T	367-292T	367-290T
Impl. Stahl impl. steel	367-240	367-250	367-260	367-280	367-292	367-290
Form shape						
max. Öffnung max opening	6,2mm	7,0mm	7,8mm	9,2mm	10,6mm	11,4mm
Druck force	110g	90g	90g	90g	90g	110g
<b>367-340T</b>	<b>367-242T</b>	<b>367-252T</b>	<b>367-262T</b>	<b>367-282T</b>	<b>367-395T</b>	<b>367-244T</b>
367-340	367-242	367-252	367-262	367-282	367-395	367-244
13,3mm	6,0mm	6,8mm	7,5mm	8,7mm	11,0mm	5,5mm
110g	110g	90g	90g	110g	90g	110g
<b>367-254T</b>	<b>367-264T</b>	<b>367-284T</b>	<b>367-396T</b>	<b>367-323T</b>	<b>367-324T</b>	<b>367-325T</b>
367-254	367-264	367-284	367-396	367-323	367-324	367-325
6,1mm	6,5mm	7,4mm	9,9mm	5,4mm	5,8mm	6,2mm
110g	110g	110g	90g	110g	110g	180g

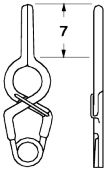
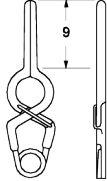
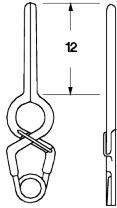
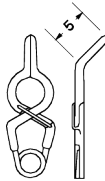
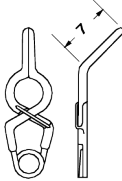
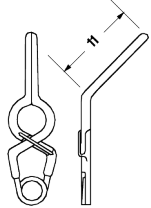
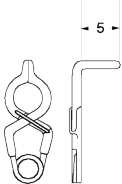
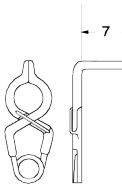
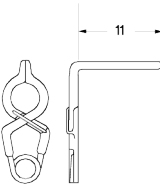
für temporären Verschluß  
 for temporary closure  
 para oclusión temporal  
 pour occlusion temporaire

<b>367-248T</b>	<b>367-258T</b>	<b>367-259T</b>	<b>367-297T</b>	<b>367-298T</b>	<b>367-103T</b>	<b>367-397T</b>
367-248	367-258	367-259	367-297	367-298	367-103	367-397
						
7,9mm	8,7mm	10,2mm	11,9mm	13,0mm	6,2mm	7,5mm
90g	90g	90g	90g	90g	110g	90g
<b>367-113T</b>	<b>367-123T</b>	<b>367-263T</b>	<b>367-319T</b>	<b>367-320T</b>	<b>367-322T</b>	<b>367-350T</b>
367-113	367-123	367-263	367-319	367-320	367-322	367-350
						
6,5mm	7,8mm	8,4mm	5,6mm	5,6mm	5,6mm	5,4mm
110g	110g	110g	130g	130g	130g	130g
<b>367-351T</b>	<b>367-330T</b>	<b>367-332T</b>	<b>367-333T</b>	<b>367-246T</b>	<b>367-261T</b>	<b>367-247T</b>
367-351	367-330	367-332	367-333	367-246	367-261	367-247
						
5,6mm	7,2mm	7,2mm	8,2mm	5,7mm	8,0mm	6,2mm
130g	90g	90g	90g	90g	90g	90g

für permanenten Verschuß, gefenstert 3,5 mm  
 for permanent closure, fenestrated 3,5 mm  
 para oclusión permanente, fenestrado 3,5 mm  
 pour occlusion permanente, fenêtrée 3,5 mm

Titan Titanium	367-600T	367-610T	367-620T	367-602T	367-612T	367-622T
Impl. Stahl impl. steel	367-600	367-610	367-620	367-602	367-612	367-622
Form shape						
max. Öffnung max opening	7,4mm	8,4mm	9,6mm	5,8mm	6,5mm	7,2mm
Druck force	150g	150g	180g	150g	150g	180g
<b>367-604T</b>	<b>367-614T</b>	<b>367-624T</b>				
367-604	367-614	367-624				
						
4,9mm	4,9mm	4,9mm				
150g	150g	180g				

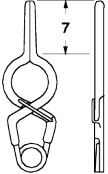
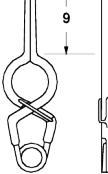
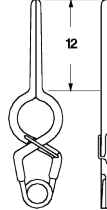
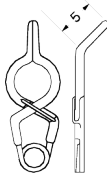
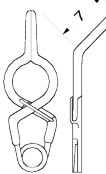
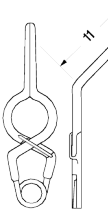
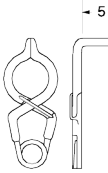
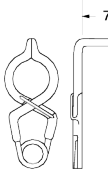
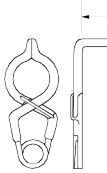
für temporären Verschuß, gefenstert 3,5 mm  
 for temporary closure, fenestrated 3,5 mm  
 para oclusión temporal, fenestrado 3,5 mm  
 pour occlusion temporaire, fenêtrée 3,5 mm

Titan Titanium	367-100T	367-110T	367-120T	367-102T	367-112T	367-122T
Impl. Stahl impl. steel	367-100	367-110	367-120	367-102	367-112	367-122
Form shape						
max. Öffnung max opening	7,4mm	8,4mm	9,6mm	5,8mm	6,5mm	7,2mm
Druck force	110g	110g	90g	110g	110g	110g
<b>367-104T</b>	<b>367-114T</b>	<b>367-124T</b>				
367-104	367-114	367-124				
						
4,9mm	4,9mm	4,9mm				
110g	110g	110g				

für permanenten Verschuß, gefenstert 5,0 mm  
 for permanent closure, fenestrated 5,0 mm  
 para oclusión permanente, fenestrado 5,0 mm  
 pour occlusion permanente, fenêtrée 5,0 mm

Titanium Titanium	367-774T	367-775T	367-776T	367-777T	367-778T	367-779T
Impl. Stahl impl. steel	367-774	367-775	367-776	367-777	367-778	367-779
Form shape						
max. Öffnung max opening	5,8mm	5,8mm	5,8mm	5,8mm	5,8mm	5,8mm
Druck force	150g	150g	150g	150g	150g	150g
<b>367-881T</b>	<b>367-882T</b>	<b>367-883T</b>	<b>367-886T</b>	<b>367-887T</b>	<b>367-888T</b>	<b>367-889T</b>
367-881	367-882	367-883	367-886	367-887	367-888	367-889
7,0mm	7,8mm	8,8mm	5,8mm	6,2mm	5,8mm	6,2mm
150g	150g	150g	150g	150g	150g	150g
<b>367-891T</b>	<b>367-892T</b>	<b>367-893T</b>	<b>367-894T</b>	<b>367-648T</b>	<b>367-658T</b>	<b>367-668T</b>
367-891	367-892	367-893	367-894	367-648	367-658	367-668
5,6mm	5,6mm	5,6mm	5,6mm	7,9mm	8,8mm	10,0mm
150g	150g	150g	150g	150g	150g	180g

für permanenten Verschuß, gefenstert 5,0 mm  
 for permanent closure, fenestrated 5,0 mm  
 para oclusión permanente, fenestrado 5,0 mm  
 pour occlusion permanente, fenêtrée 5,0 mm

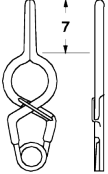
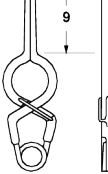
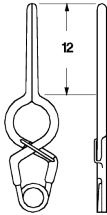
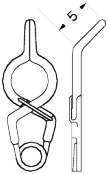
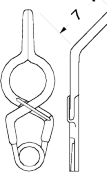
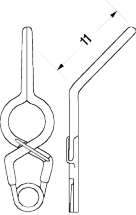
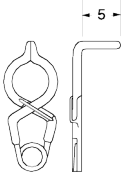
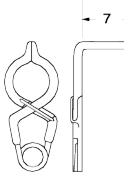
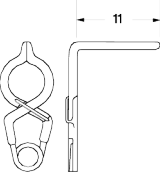
Titan Titanium	367-640T	367-650T	367-660T	367-642T	367-652T	367-662T
Impl. Stahl impl. steel	367-640	367-650	367-660	367-642	367-652	367-662
Form shape						
max. Öffnung max opening	7,9mm	9,1mm	10,3mm	6,5mm	7,2mm	7,8mm
Druck force	150g	150g	180g	150g	150g	180g
<b>367-644T</b>	<b>367-654T</b>	<b>367-664T</b>				
367-644	367-654	367-664				
						
5,5mm	5,5mm	5,5mm				
150g	150g	180g				

für temporären Verschuß, gefenstert 5,0 mm  
 for temporary closure, fenestrated 5,0 mm  
 para oclusión temporal, fenestrado 5,0 mm  
 pour occlusion temporaire, fenêtrée 5,0 mm

Titanium Titanium	367-274T	367-275T	367-276T	367-277T	367-278T	367-279T
Impl. Stahl impl. steel	367-274	367-275	367-276	367-277	367-278	367-279
Form shape						
max. Öffnung max opening	5,8mm	5,8mm	5,8mm	5,8mm	5,8mm	5,8mm
Druck force	110g	110g	110g	110g	110g	110g
<b>367-381T</b>	<b>367-382T</b>	<b>367-383T</b>	<b>367-386T</b>	<b>367-387T</b>	<b>367-388T</b>	<b>367-389T</b>
367-381	367-382	367-383	367-386	367-387	367-388	367-389
7,0mm	7,8mm	8,8mm	5,8mm	6,2mm	5,8mm	6,2mm
110g	110g	110g	110g	110g	110g	110g
<b>367-391T</b>	<b>367-392T</b>	<b>367-393T</b>	<b>367-394T</b>	<b>367-148T</b>	<b>367-158T</b>	<b>367-168T</b>
367-391	367-392	367-393	367-394	367-148	367-158	367-168
5,6mm	5,6mm	5,6mm	5,6mm	7,9mm	8,8mm	10,0mm
110g	110g	110g	110g	90g	90g	90g







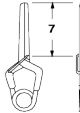






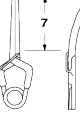



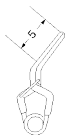

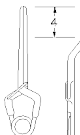
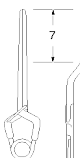
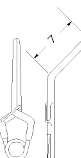
für temporären Verschuß, gefenstert 5,0 mm  
 for temporary closure, fenestrated 5,0 mm  
 para oclusión temporal, fenestrado 5,0 mm  
 pour occlusion temporaire, fenêtrée 5,0 mm

Titan Titanium	367-140T	367-150T	367-160T	367-142T	367-152T	367-162T
Impl. Stahl impl. steel	367-140	367-150	367-160	367-142	367-152	367-162
Form shape						
max. Öffnung max opening	7,9mm	9,1mm	10,3mm	6,5mm	7,2mm	7,8mm
Druck force	110g	100g	90g	110g	110g	110g
<b>367-144T</b>	<b>367-154T</b>	<b>367-164T</b>				
367-144	367-154	367-164				
						
5,5mm	5,5mm	5,5mm				
110g	110g	90g				

für permanenten Verschluss  
 for permanent closure  
 para oclusión permanente  
 pour occlusion permanente

Titan Titanium	367-680T	367-690T	367-700T	367-710T	367-720T	367-682T
Impl. Stahl impl. steel	367-680	367-690	367-700	367-710	367-720	367-682
Form shape						
max. Öffnung max opening	3,3mm	4,0mm	3,3mm	4,0mm	4,6mm	3,2mm
Druck force	110g	110g	110g	110g	110g	110g
<b>367-692T</b>	<b>367-711T</b>	<b>367-712T</b>	<b>367-713T</b>	<b>367-726T</b>	<b>367-722T</b>	<b>367-694T</b>
367-692	367-711	367-712	367-713	367-726	367-722	367-694
3,8mm	3,6mm	3,8mm	3,6mm	4,0mm	4,4mm	3,6mm
110g	110g	110g	110g	110g	110g	110g
<b>367-714T</b>	<b>367-724T</b>	<b>367-716T</b>	<b>367-717T</b>	<b>367-727T</b>	<b>367-728T</b>	<b>367-806T</b>
367-714	367-724	367-716	367-717	367-727	367-728	367-806
3,5mm	4,0mm	3,5mm	6,0mm	7,0mm	5,7mm	4,5mm
110g	110g	130g	130g	130g	130g	130g

für temporären Verschuß  
 for temporary closure  
 para oclusión temporal  
 pour occlusion temporaire

Titan Titanium	367-180T	367-190T	367-200T	367-210T	367-220T	367-182T
Impl. Stahl impl. steel	367-180	367-190	367-200	367-210	367-220	367-182
Form shape						
max. Öffnung max opening	3,3mm	4,0mm	3,3mm	4,0mm	4,6mm	3,2mm
Druck force	90g	70g	90g	70g	70g	90g
<b>367-192T</b>	<b>367-211T</b>	<b>367-212T</b>	<b>367-213T</b>	<b>367-226T</b>	<b>367-222T</b>	<b>367-194T</b>
367-192	367-211	367-212	367-213	367-226	367-222	367-194
						
3,8mm	3,6mm	3,8mm	3,6mm	4,0mm	4,4mm	3,6mm
70g	80g	70g	80g	70g	70g	80g
<b>367-214T</b>	<b>367-224T</b>	<b>367-216T</b>	<b>367-217T</b>	<b>367-227T</b>	<b>367-228T</b>	<b>367-306T</b>
367-214	367-224	367-216	367-217	367-227	367-228	367-306
						
3,5mm	4,0mm	3,5mm	6,0mm	7,0mm	5,7mm	4,5mm
80g	70g	70g	70g	70g	70g	70g



### YASARGIL

Clipanlegezange, gerade, nicht drehbar  
 Clip applying forceps, straight, not rotating

	Gesamtlänge total length		standard	mini
<b>367-548</b>	180mm		-	x
<b>367-558</b>	180mm		x	-



### YASARGIL

Clipanlegezange, bajonett, gerade  
 Clip applying forceps, bayonet, straight

	Gesamtlänge total length	Arbeitslänge working length	standard	mini
<b>367-540</b>	170mm	50mm	-	x
<b>367-550</b>	170mm	50mm	x	-
<b>367-542</b>	210mm	90mm	-	x
<b>367-552</b>	210mm	90mm	x	-
<b>367-544</b>	230mm	110mm	-	x
<b>367-554</b>	230mm	110mm	x	-



### YASARGIL

Clipanlegezange, bajonett, 15° aufgebogen  
 Clip applying forceps, bayonet, 15° angled

	Gesamtlänge total length	Arbeitslänge working length	standard	mini
<b>367-575</b>	210mm	90mm	-	x
<b>367-585</b>	210mm	90mm	x	-
<b>367-577</b>	230mm	110mm	-	x
<b>367-587</b>	230mm	110mm	x	-



**YASARGIL**

Clipanlegezange, bajonett, abwinkelbares Ende, drehbar  
 Clip applying forceps, bayonet, adjustable jaws, rotating

	Gesamtlänge total length	Arbeitslänge working length	standard	mini
<b>367-1009</b>	210mm	90mm	-	x
<b>367-2009</b>	210mm	90mm	x	-
<b>367-1011</b>	230mm	110mm	-	x
<b>367-2011</b>	230mm	110mm	x	-



**YASARGIL**

Titan Clipanlegezange, bajonett, abwinkelbares Ende, drehbar  
 Titanium clip applying forceps, bayonet, adjustable jaws, rotating

	Gesamtlänge total length	Arbeitslänge working length	standard	mini
<b>367-1009T</b>	210mm	90mm	-	x
<b>367-2009T</b>	210mm	90mm	x	-
<b>367-1011T</b>	230mm	110mm	-	x
<b>367-2011T</b>	230mm	110mm	x	-

Der MEMORY Schaft kann beinahe in jede Richtung gebogen werden. Bei der anschließenden Sterilisation nimmt der MEMORY Schaft wieder seine ursprüngliche bajonett Form ein.

The MEMORY shaft can be flexed in almost any direction. After sterilisation the MEMORY shaft turns back into original bayonet condition.

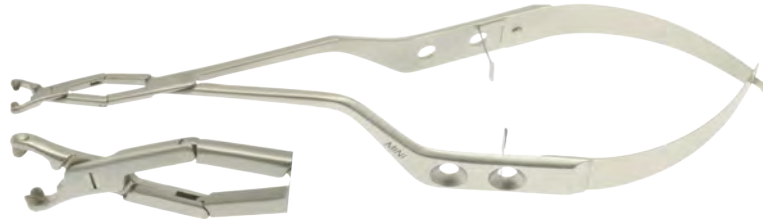


Clipanlegezange, mit MEMORY Schaft, bajonett, drehbar  
 Clipanlegezange, adjustable jaw wnds, bayonet, rotating

	Gesamtlänge total length	Arbeitslänge working length	standard	mini
<b>367-7271</b>	mm	70mm	-	x
<b>367-8271</b>	mm	70mm	x	-
<b>367-7291</b>	mm	90mm	-	x
<b>367-8291</b>	mm	90mm	x	-
<b>367-7211</b>		110mm	-	x
<b>367-8211</b>		110mm	x	-

Titan Clipanlegezange, mit MEMORY Schaft, bajonett, drehbar  
 Titanium clip applying forceps, adjustable jaw wnds, bayonet, rotating

	Gesamtlänge total length	Arbeitslänge working length	standard	mini
<b>367-7271T</b>	mm	70mm	-	x
<b>367-8271T</b>	mm	70mm	x	-
<b>367-7291T</b>	mm	90mm	-	x
<b>367-8291T</b>	mm	90mm	x	-
<b>367-7211T</b>		110mm	-	x
<b>367-8211T</b>		110mm	x	-



**YASARGIL**

Titan Clipanlegezange, bajonett, drehbar  
 Titanium clip applying forceps, bayonet, rotating

	Gesamtlänge total length	Arbeitslänge working length	standard	mini
<b>367-1003T</b>	210mm	90mm	-	x
<b>367-2003T</b>	210mm	90mm	x	-
<b>367-1005T</b>	230mm	110mm	-	x
<b>367-2005T</b>	230mm	110mm	x	-



**YASARGIL**

Entnahmezange, bajonett, gerade  
 Clip removing forceps, bayonet, straight



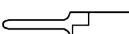
	Gesamtlänge total length	standard	mini
<b>367-072</b>	210mm	-	x
<b>367-082</b>	210mm	x	-

Titan Entnahmezange, bajonett, gerade  
 Titanium clip removing forceps, bayonet, straight

	Gesamtlänge total length	standard	mini
<b>367-072T</b>	210mm	-	x
<b>367-082T</b>	210mm	x	-



**Biemer Vessel Clips**

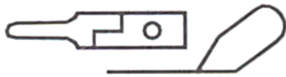
Form shape	Maulöffnung opening	Maullänge length of jaws	Schließkraft closing force
 <b>368-560</b>	4,0mm	6,0mm	30-40g 0,29-0,39 Newton
 <b>368-561</b>	5,0mm	9,0mm	30-40g 0,29-0,39 Newton
 <b>368-562</b>	5,0mm	9,0mm	20-25g 0,20-0,25 Newton

**für temporären Gebrauch**

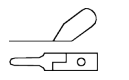
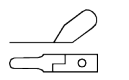
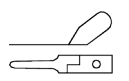
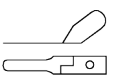
- gekennzeichnet durch gelb eingefärbte Federenden
- Maulinnenflächen schräg gerieft für schonendes, sicheres Festhalten der Gefäße
- für Gefäße mit Ø 0,5 - 2,0 mm
- der fest eingestellte Schließdruck gewährt risikofreie Anwendung

**for temporary occlusion**

- identified by yellow coloured spring ends
- Blade gripping surface with oblique serrations for safe but careful gripping of vessels
- for vessel Ø 0,5 - 2,0 mm
- No risk due to rigidly fixed closing force



**Mehdorn Vessel Clips**

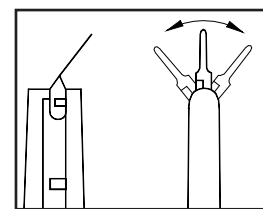
Form shape	Maullänge length of jaws	Schließkraft closing force
 <b>368-552</b>	4x1,0mm	10-15g 0,10-0,15 Newton
 <b>368-554</b>	4x1,4mm	10-15g 0,10-0,15 Newton
 <b>368-556</b>	4x1,0mm	10-15g 0,10-0,15 Newton
 <b>368-558</b>	4x1,4mm	10-15g 0,10-0,15 Newton



**Biemer Clip Applying Forceps**

for vessel clips 360-560 - 360-562  
 and Approximators 368-611 - 368-615 and 368-671 - 368-674  
 overall length 145mm

- 368-568** without catch
- 368-569** with catch

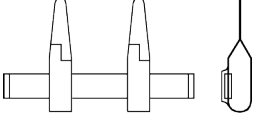
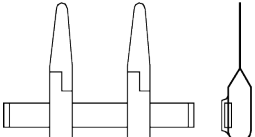
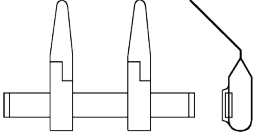
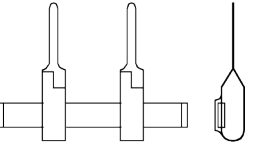
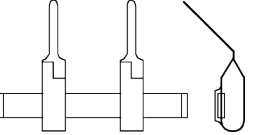


**Mehdorn Clip Applying Forceps**

for vessel clips 368-552 - 368-558 overall length 145mm

- 368-578** without catch



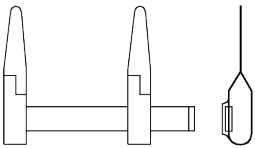
Form shape	Maulöffnung opening	Maullänge length of jaws	Schließkraft closing force
 368-615	4,0mm	6,0mm	30-40g 0,29-0,39 Newton
 368-611	5,0mm	9,0mm	30-40g 0,29-0,39 Newton
 368-612	5,0mm	9,0mm	30-40g 0,29-0,39 Newton
 368-613	5,0mm	9,0mm	30-40g 0,29-0,39 Newton
 368-614	5,0mm	9,0mm	30-40g 0,29-0,39 Newton



**Biemer Clip Applying Forceps**  
 for vessel clips 360-560 - 360-562 and  
 Approximators 368-611 - 368-615 and  
 368-671 - 368-674  
 overall length 145mm

**368-568** without catch  
**368-569** with catch

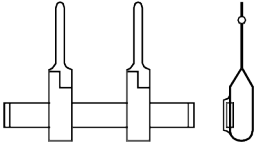
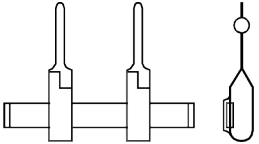
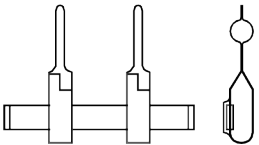
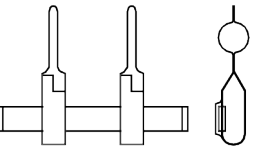
**Biemer Approximator**

Form shape	Maulöffnung opening	Maullänge length of jaws	Schließkraft closing force
 368-570	5,0mm	9,0mm	30-40g 0,29-0,39 Newton



**Biemer**  
 Applying forceps for vessel  
 approximator 368-570

**368-572**

Form shape	∅ Diameter	Schließkraft closing force
 368-671	1,0mm	25-30g 0,25-0,29 Newton
 368-672	2,0mm	25-30g 0,25-0,29 Newton
 368-673	3,0mm	25-30g 0,25-0,29 Newton
 368-674	4,0mm	25-30g 0,25-0,29 Newton

**für temporären Gebrauch**

- gekennzeichnet durch gelb eingefärbte Federenden
- Maulinnenflächen schräg gerieft für schonendes, sicheres Festhalten der Gefäße
- für Gefäße mit Ø 0,5 - 2,0 mm
- der fest eingestellte Schließdruck gewährt risikofreie Anwendung

**for temporary occlusion**

- identified by yellow coloured spring ends
- Blade gripping surface with oblique serrations for safe but careful gripping of vessels
- for vessel Ø 0,5 - 2,0 mm
- No risk due to rigidly fixed closing force



**Biemer Clip Applying Forceps**

for vessel clips 360-560 - 360-562  
and Approximators 368-611 - 368-615 and 368-671 - 368-674  
overall length 145mm

- 368-568** without catch  
**368-569** with catch





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FÜR NOTIZEN  
FOR NOTES  
PARA NOTAS  
POUR NOTES

**ELCON**  
**MICRO**

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Lined area for notes, consisting of 25 horizontal lines.

# **ELCON**

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