

# Neurosurgery

Neurochirurgie

Neurochirurgie

Neurocirugía

Neurochirurgia

# ABOUT US

**Amaax** International has a history of two decades as a leading manufacturer of surgical instruments and exporting them to the quality conscious health care industry all over the world. Our commitment to excellence has allowed us to establish our customer bases in strategic and vital surgical hubs of the world.

**Amaax** International is known synonymous with high quality, efficient service and close correspondence with its customers. In addition to cost-effective products designed to meet the needs of your business, there are many other reasons to choose **Amaax** International.

**Amaax** International ist seit zwei Jahrzehnten ein führender Hersteller chirurgischer Instrumente und exportiert diese in die qualitätsbewusste Gesundheitsbranche weltweit. Unser Engagement für Spitzenleistungen hat es uns ermöglicht, einen Kundenstamm in strategisch wichtigen chirurgischen Zentren weltweit aufzubauen.

**Amaax** International steht für hohe Qualität, effizienten Service und enge Kundenkommunikation. Neben kostengünstigen Produkten, die auf die Bedürfnisse Ihres Unternehmens zugeschnitten sind, gibt es viele weitere Gründe, sich für **Amaax** International zu entscheiden.

**Amaax** International est depuis deux décennies un fabricant leader d'instruments chirurgicaux, exportant ses produits vers le secteur de la santé, soucieux de la qualité, partout dans le monde. Notre engagement envers l'excellence nous a permis d'établir une clientèle dans des centres chirurgicaux stratégiques et vitaux à travers le monde.

**Amaax** International est synonyme de haute qualité, d'efficacité du service et de proximité avec ses clients. Outre des produits économiques conçus pour répondre aux besoins de votre entreprise, il existe de nombreuses autres raisons de choisir **Amaax** International.

**Amaax** International cuenta con dos décadas de experiencia como fabricante líder de instrumental quirúrgico y lo exporta a la industria sanitaria, comprometida con la calidad, en todo el mundo. Nuestro compromiso con la excelencia nos ha permitido establecer una base de clientes en centros quirúrgicos estratégicos y vitales a nivel mundial.

**Amaax** International es sinónimo de alta calidad, servicio eficiente y una estrecha relación con sus clientes. Además de productos rentables diseñados para satisfacer las necesidades de su negocio, existen muchas otras razones para elegir **Amaax** International.

**Amaax** International vanta una storia ventennale come produttore leader di strumenti chirurgici e li esporta in tutto il mondo, in un settore sanitario attento alla qualità. Il nostro impegno per l'eccellenza ci ha permesso di consolidare la nostra base clienti in centri chirurgici strategici e vitali in tutto il mondo.

**Amaax** International è sinonimo di alta qualità, servizio efficiente e stretta collaborazione con i propri clienti. Oltre a prodotti convenienti progettati per soddisfare le esigenze della vostra attività, ci sono molti altri motivi per scegliere **Amaax** International.



**01**



**DIAGNOSTICS**

DIAGNOSTIK  
DIAGNOSTIC  
DIAGNÓSTICO  
DIAGNOSTICA

page 1-3

**02**



**SCALPELS, KNIVES**

SKALPELLE, MESSER  
BISTOURIS, COUTEAUX  
BISTURÍS, CUCHILLOS  
BISTUR I, COLTELLI

page 4-14

**03**

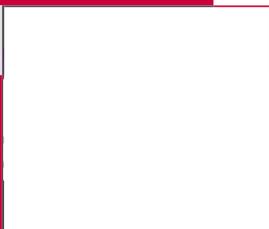


**SCISSORS**

SCHEREN  
CISEAUX  
TIJERAS  
FORBICI

page 15-34

**04**



**SUPER CUT SCISSORS**

SUPER CUT SCHEREN  
SUPER CUT CISEAUX  
SUPER CUT TIJERAS  
SUPER CUT FORBICI

page 35-40

**05**



**MICRO SCISSORS**

MIKRO-SCHEREN  
MICRO-CISEAUX  
MICRO TIJERAS  
MICRO FORBICI

page 41-52

**06**



**Forceps**

Pinzetten  
Pinces  
Pinzas  
Pinze

**page 53-69**

**07**



**Micro Forceps**

Mikro Pinzetten  
Micro Pinces  
Micro Pinzas  
Micro Pinze

**page 70-86**

**08**



**HEMOSTATIC FORCEPS**

ARTERIENKLEMMEN  
PINCES HÉMOSTATIQUES  
PINZAS HEMOSTÁTICAS  
PINZE EMOSTATICHE

**page 87-101**

**09**

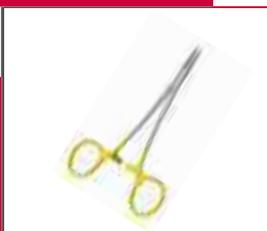


**RETRACTORS**

WUNDHAKEN  
ÉCARTEURS  
SEPARADORES  
DIVARICATORI

**page 102-143**

**10**



**NEEDLE HOLDERS**

NADELHALTER  
PORTE-AIGUILLES  
PORTA-AGUJAS  
PORT'AGHI

**page 144-157**

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**ORTHOPEDICS , DRILLS**

ORTHOPÄDIE, BOHRAPPARATE  
ORTHOPÉDIE, PERFORATEURS  
ORTOPEDÍA, PERFORADORES  
ORTOPEDIA, PERFORATORI

Page 158-207

12



**Skull Instruments**

Schädel Instrumente  
Instruments per crâniennes  
Instrumentos para craneotomía  
Strumenti per craniotome

Page 208-215

13



**Hooks, Dissectors**

Haken, Dissektoren  
Crochets, Dissecteurs  
Separadores, Disectores  
Uncini, Dissettori

Page 216-231

14



**Micro Instruments with Round Handles**

Mikro-Rundgriff Instrumente  
Micro-instruments à manche rond  
Instrumentos para microcirugía con mangos redondos  
Strumenti per Microchirurgia con manico rotondo

Page 232-240

15



**LEYLA Fixation System**

LEYLA Fixations-System  
LEYLA système de fixation  
LEYLA sistema de fijación  
LEYLA sistema da fissaggio

Page 241-248

16



**Suction Tubes**

Saugrohre  
Tubes d'aspiration  
Tubos de aspiración  
Tubi d'aspirazione

page 249-258

17



**RONGEURS**

STANZEN  
GOUGES  
GUBIAS  
SGORBIE

page 259-276

18



**Aneurysm - Vessel Clips**

Aneurysmen - Gefäß Clips  
Aneurysm - Clips vasculaires  
Aneurysm - Clips vasculares  
Aneurysm - Clips vascolari

page 277-308

19



**Pituitary Instruments**

Hypophysektomie-Instrumente  
Instruments pour l'hypophysectomie  
Instrumentos para la hipofisectomía  
Strumenti per ipofisectomia

page 309-322

20



**Containers**

Container  
Container  
Contenedores  
Container

page 323-325



01 |

## **Diagnostics**

Diagnostik

Diagnostic

Diagnóstico

Diagnostica

**dynamometre, graduated in kg**

 Dynamometer, mit Einteilung in Kilo  
 dynamometre, divisé en kilos  
 dinamometro, graduado en kg  
 dinamometro, graduato in kg

**COLLIN**

<b>for adults</b> für Erwachsene pour adultes para adultos per adulti	<b>for children</b> für Kinder pour enfants para niños per bambini
12,5 cm/5"	10 cm/4"
<b>102-140-01</b>	<b>102-140-02</b>


**TAYLOR**
**Spare rubber grey**

 Ersatzgummi grau  
 caoutchouc gris, seule  
 caucho gris, suelta  
 gomma grigia, solo

**102-288-29**
**Spare rubber red**

 Ersatzgummi rot  
 caoutchouc rouge, seule  
 caucho rojo, suelta  
 gomma rossa, solo

**102-288-30**

17 cm/6¾"

**102-288-17**

20 cm/8"

**102-288-20**

**TRAUBE**

16 cm/6¼"

**102-290-16**
**Spare rubber**

 Ersatzgummi  
 caoutchouc, seule  
 caucho, suelta  
 gomma, solo

**102-290-99**


Ø 40 mm

**BABINSKY**

22 cm/8¾"

**102-292-22**
**Spare rubber**

 Ersatzgummi  
 caoutchouc, seule  
 caucho, suelta  
 gomma, solo

**102-292-99**



**Spare rubber**  
Ersatzgummi  
caoutchouc, seule  
caucho, suelta  
gomma, solo

**102-294-99**

**TROEMNER**  
24 cm/9½"

**102-294-24**



Ø 40 mm

**RABINER**  
23 cm/9"

**102-296-23**



without needle

with needle  
mit Nadel  
avec brosse  
con aguja  
con ago

**DEJERINE**

20 cm/8"

**102-302-20**

21 cm/8¼"

**102-302-21**



**DEJERINE**

17 cm/6¾"

**102-306-17**

20 cm/8"

**102-306-20**



**BUCK**

18 cm/7"

**102-308-18**

**Brush only**

Pinzel allein  
Pinceau seule  
Pincel solo  
pennello solo

**102-308-97**

**Needle only**

Nadel allein  
Aiguille seule  
Aguja sola  
Ago solo

**102-308-98**

**Spare rubber set**

Ersatzgummi Satz  
caoutchouc jeu, seule  
caucho set, suelta  
gomma set, solo

**102-308-99**



**measuring range up to 125 mm**  
 Messbereich bis 125 mm  
 pour mesurer jusqu'à 125 mm  
 alcance de medición hasta 125 mm  
 per misurare fino a 125 mm

**102-318-00**



**with needle and brush**  
 mit Nadel und Pinsel  
 avec aiguille et pinceau  
 con aguja y pincel  
 con ago e pennello

**Algesimeter**  
 Sensibilitätsinstrument  
 Algesimetre  
 Algesimetro  
 Algesimetro

**ALY**  
 18 cm/7"

**102-319-17**

**Aesthesiometer**  
 Aesthesiometer  
 Estésiometre  
 Estesímetro  
 Estesimetro



**WEBER**  
 9 cm/3½"

**102-320-09**



**Pinwheel**  
 Nadelrad  
 Algesimetre  
 Rueda de espigas  
 Algesimetro

**WARTENBERG**  
 19 cm/7¼"

**102-320-19**



**Tuning Fork**  
 Stimmgabel  
 Diapason  
 Diapason  
 Diapason

**44-075-00**

**with Hammer, Pinwheel, Brush and needle**  
 mit Hammer, Nadelrad, Pinsel u- Nadel  
 avec marteaux, roue aux épines, broset et aiguille  
 con martillo, rueda con espigas, cepillo y aguja  
 con martello, algesimetro, spazzola ed ago

**graduated in mm and inches**  
 Einteilung in mm und Zoll  
 divisé en mm et pouces  
 graduado en mm y pulgadas  
 diviso in millimetri e pollici

10 cm/4"	<b>102-340-10</b>
15 cm/6"	<b>102-340-15</b>
20 cm/8"	<b>102-340-20</b>
25 cm/9¾"	<b>102-340-25</b>
30 cm/12"	<b>102-340-30</b>
40 cm/16"	<b>102-340-40</b>
50 cm/20"	<b>102-340-50</b>

**02** |

## **Scalpels, Knives**

Skalpelle, Messer

Bistouris, Couteaux

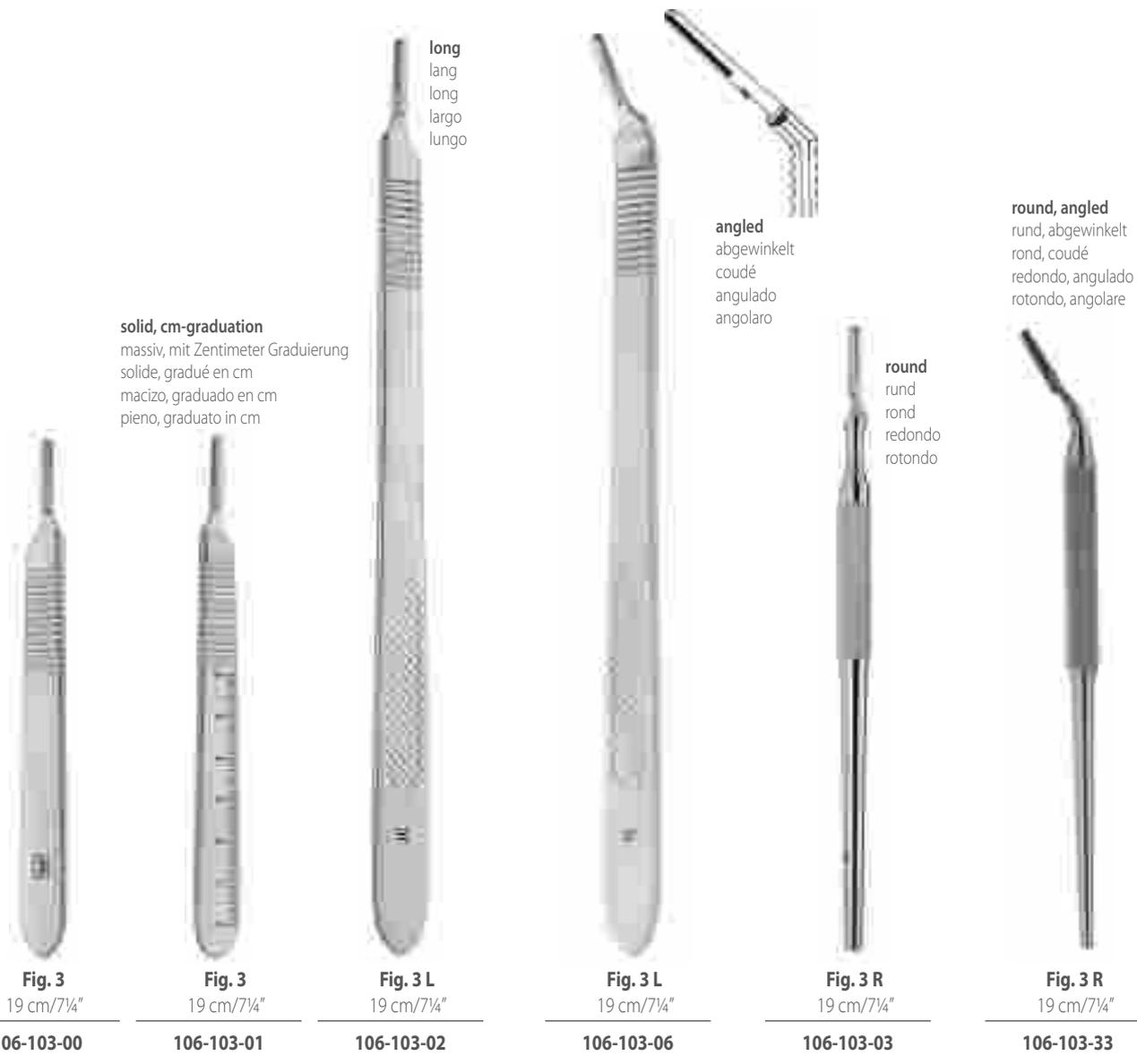
Bisturías, Cuchillos

Bistrui, Coltelli

**Scalpel Handles for scalpel blades fig. 10, 11, 12, 13, 15**

Skalpelli, passend für auswechselbare Skalpellklingen Fig. 10, 11, 12, 13, 15  
 Manches pour bistouris, allant avec les lames de bistouris interchangeables fig. 10, 11, 12, 13, 15  
 Mangos de bisturí para hojas intercambiables fig. 10, 11, 12, 13, 15  
 Manici per bisturi, per fissare le lame intercambiabili fig. 10, 11, 12, 13, 15

**Fig.  
3**



## SCALPELS, KNIFES

## Scalpel Handles for scalpel blades fig. 10, 11, 12, 13, 15

Skalpelli, passend für auswechselbare Skalpellklingen Fig. 10, 11, 12, 13, 15

Manches pour bistouris, allant avec les lames de bistouris interchangeables fig. 10, 11, 12, 13, 15

Mangos de bisturí para hojas intercambiables fig. 10, 11, 12, 13, 15

Manici per bisturi, per fissare le lame intercambiabili fig. 10, 11, 12, 13, 15

**Fig.**  
**3**

**No. 5**  
 16 cm/6 1/4"

106-105-00


**No. 5**  
 21,5 cm/8 1/2"

106-106-00


**No. 5**  
 21,5 cm/8 1/2"

106-106-01


 angled  
 abgewinkelt  
 coudé  
 angulado  
 angolare

**Scalpel Handles for scalpel blades fig. 10, 11, 12, 13, 15**Skalpellgriffe, passend für auswechselbare Skalpellklingen Fig. 10, 11, 12, 13, 15  
Manches pour bistouris, allant avec les lames de bistouris interchangeables fig. 10, 11, 12, 13, 15  
Mangos de bisturí para hojas intercambiables fig. 10, 11, 12, 13, 15  
Manici per bisturi, per fissare le lame intercambiabili fig. 10, 11, 12, 13, 15**Fig.  
3****Fig. 7**  
16 cm/6¼"**106-107-00****Fig. 7 K**  
12,5 cm/5"**106-107-01****Fig. 7 L**  
22 cm/8¾"**106-107-02**

21 cm/8¼"

**106-109-00**

## SCALPELS, KNIFES

## Scalpel Handles for scalpel blades fig. 18, 19, 20, 21, 22, 23, 24, 25, 34, 36

Skalpellgriffe, passend für auswechselbare Skalpellklingen Fig. 18, 19, 20, 21, 22, 23, 24, 25, 34, 36

Manches pour bistouris, allant avec les lames de bistouris interchangeables fig. 18, 19, 20, 21, 22, 23, 24, 25, 34, 36

Mangos de bisturí para hojas intercambiables fig. 18, 19, 20, 21, 22, 23, 24, 25, 34, 36

Manici per bisturi, per fissare le lame intercambiabili fig. 18, 19, 20, 21, 22, 23, 24, 25, 34, 36

**Fig.**  
**4**
**Fig. 4**

13,5 cm/5¼"

106-104-00

**cm-graduation**  
 mit Zentimeter-Graduierung  
 gradué en cm  
 graduado en cm  
 graduato in cm
**Fig. 4**

13,5 cm/5¼"

106-104-01


**long**  
 lang  
 long  
 longo  
 lungo
**Fig. 4 L**

21 cm/8¼"

106-104-02


**angled, long**  
 abgewinkelt, lang  
 coudé, long  
 angulado, largo  
 angolaro, lungo
**Fig. 4 L**

21 cm/8¼"

106-104-06

in packages of 10 pieces  
 In Packungen à 10 Stück  
 en boîtes de 10 pieces  
 en cajas de 10 c/u  
 in scatole di 10 pezzi

### Fig. 3



Fig. 10

106-110-00

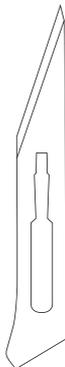


Fig. 11

106-111-00

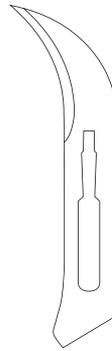


Fig. 12

106-112-00

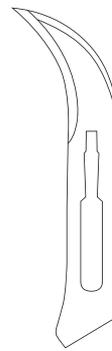


Fig. 12 d

106-112-02

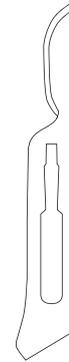


Fig. 15

106-115-00

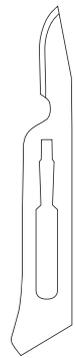


Fig. 15 c

106-115-01

### Fig. 4

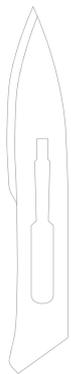


Fig. 18

106-118-00



Fig. 19

106-119-00

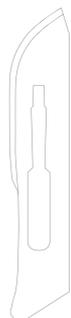


Fig. 20

106-120-00



Fig. 21

106-121-00



Fig. 22

106-122-00

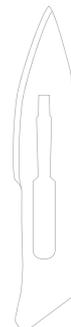


Fig. 23

106-123-00



Fig. 24

106-124-00



Fig. 25

106-125-00



Fig. 34

106-134-00



Fig. 36

106-136-00



Fig. 36 d

106-136-02

## SCALPELS, KNIFES

**in packages of 10 pieces**

In Packungen à 10 Stück

en boîtes de 10 pièces

en cajas de 10 c/u

in scatole di 10 pezzi



**Fig. 10**

106-210-00



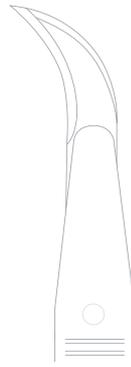
**Fig. 11**

106-211-00



**Fig. 12**

106-212-00



**Fig. 12 d**

106-212-02



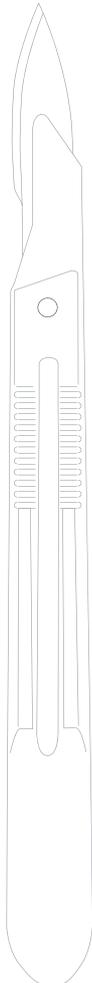
**Fig. 15**

106-215-00



**Fig. 15 c**

106-215-01



**Fig. 18**

106-218-00



**Fig. 19**

106-219-00



**Fig. 20**

106-220-00



**Fig. 21**

106-221-00



**Fig. 22**

106-222-00



**Fig. 23**

106-223-00



**Fig. 24**

106-224-00

**Scalpel Blade Remover**

Skalpellklingen-Entferner

Enlève-lame

Quita hojas

Distributore lame



106-199-00



No. 3K	10 cm/4"	<b>106-302-10</b>
No. 3KL	13 cm/5"	<b>106-302-13</b>
No. 3KXL	15,5 cm/6"	<b>106-302-15</b>



<b>CASPAR</b>	15,5 cm/6"	<b>106-304-15</b>
	18cm/7"	<b>106-306-18</b>
	20cm/8"	<b>106-308-20</b>



<b>LANDOLT</b>	
21 cm/8¼"	25 cm/10"
<b>40-858-21</b>	<b>40-857-25</b>

**in packages of 10 ea, sterile**

In Packungen à 10 Stück, steril  
 en boîtes de 10 pièces, stériles  
 en cajas de 10 c/u, estériles  
 in scatole di 10 pezzi, sterili


**Fig. 61**
**40-859-01**

**Fig. 62**
**40-859-02**

**Fig. 64**
**40-859-04**

**Fig. 65**
**40-859-05**

**Fig. 67**
**40-859-07**

**Fig. 69**
**40-859-09**

**Razor blades breakable, package with 10 pieces**

Rasierklingen brechbar, Packung mit 10 Stück

Lames de rasoir cassable, boîte de 10 pièces

Hojas de afeitador rompeable, paquete con 10 piezas

Lamette da rasoio rompibile, scatola di 10 pezzi



06-296-00


**TROUTMAN-CHRIS**  
9 cm/3½"

106-290-09

**handle diameter**  
Griffdurchmesser  
diamètre du manche  
diámetro del mango  
diametro di manico  
5,5 mm

**TROUTMAN-CHRIS**  
9 cm/3½"

106-291-09

**handle diameter**  
Griffdurchmesser  
diamètre du manche  
diámetro del mango  
diametro di manico  
5,5 mm


11 cm/4¼"

106-291-11



**CASTROVIEJO**  
18 cm/7"

**106-292-18**



**CASTROVIEJO**  
13 cm/5"

**106-294-13**

**8 mm**  
**handle diameter**  
Griffdurchmesser  
diamètre du manche  
diámetro del mango  
diametro di manico

# 02

## SCALPELS, KNIFES

### Delicate Scalpels

Feine Skalpelle

Bistouris délicats

Bisturíes delicados

Bisturi delicati



**DIEFFENBACH**  
13 cm/5"



Fig. 1

106-404-01



Fig. 2

106-404-02



Fig. 3

106-404-03



Fig. 7

106-404-07



Fig. 8

106-404-08



Fig. 9

106-404-09



**PARKER**  
14 cm/5½"



Fig. 1

106-408-01



Fig. 2

106-408-02

## **Scissors**

Scheren

Ciseaux

Tijeras

Forbici

**TC Cutting Edges**

TC-Schneiden

Tranchant TC

Filos de corte TC

Taglio TC



	blunt / blunt		sharp / blunt		sharp / sharp	
10,5 cm/4¼"	<b>108-102-10</b>		<b>108-110-10</b>		<b>108-120-10</b>	
11,5 cm/4½"	<b>108-102-11</b>		<b>108-110-11</b>		<b>108-120-11</b>	
13 cm/5"	<b>108-102-13</b>		<b>108-110-13</b>		<b>108-120-13</b>	
13 cm/5"			<b>108-110-13L</b>			
14,5 cm/5¾"	<b>108-102-14</b>	<b>108-104-14</b>	<b>108-110-14</b>	<b>108-114-14</b>	<b>108-120-14</b>	<b>108-124-14</b>
14,5 cm/5¾"			<b>108-110-14L</b>			
15,5 cm/6¼"	<b>108-102-15</b>		<b>108-110-15</b>		<b>108-120-15</b>	
16,5 cm/6½"	<b>108-102-16</b>	<b>108-104-16</b>	<b>108-110-16</b>	<b>108-114-16</b>	<b>108-120-16</b>	<b>108-124-16</b>
18,5 cm/7¼"	<b>108-102-18</b>	<b>108-104-18</b>	<b>108-110-18</b>	<b>108-114-18</b>	<b>108-120-18</b>	<b>108-124-18</b>
20 cm/8"	<b>108-102-20</b>		<b>108-110-20</b>		<b>108-120-20</b>	
30,0 cm 12"	<b>108-102-30</b>		<b>108-110-30</b>		<b>108-120-30</b>	

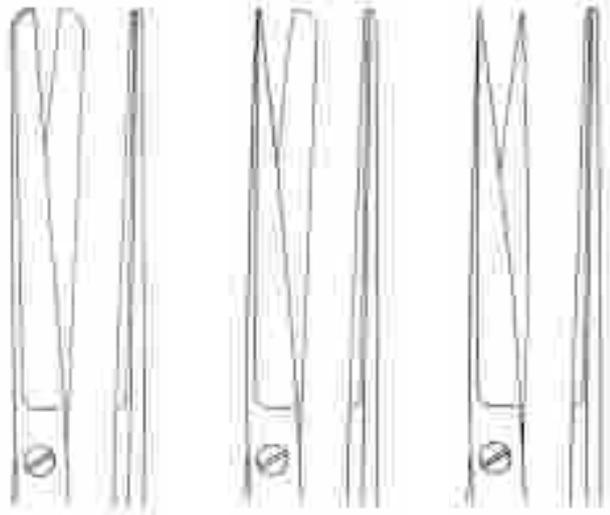


	blunt / blunt		sharp / blunt		sharp / sharp	
10,5 cm/4¼"	<b>108-103-10</b>		<b>108-111-10</b>		<b>108-121-10</b>	
11,5 cm/4½"	<b>108-103-11</b>		<b>108-111-11</b>		<b>108-121-11</b>	
13 cm/5"	<b>108-103-13</b>		<b>108-111-13</b>		<b>108-121-13</b>	
13 cm/5"			<b>108-111-13L</b>			
14,5 cm/5¾"	<b>108-103-14</b>	<b>108-105-14</b>	<b>108-111-14</b>	<b>108-115-14</b>	<b>108-121-14</b>	<b>108-125-14</b>
14,5 cm/5¾"			<b>108-111-14L</b>			
15,5 cm/6¼"	<b>108-103-15</b>		<b>108-111-15</b>		<b>108-121-15</b>	
16,5 cm/6½"	<b>108-103-16</b>	<b>108-105-16</b>	<b>108-111-16</b>	<b>108-115-16</b>	<b>108-121-16</b>	<b>108-125-16</b>
18,5 cm/7¼"	<b>108-103-18</b>	<b>108-105-18</b>	<b>108-111-18</b>	<b>108-115-18</b>	<b>108-121-18</b>	<b>108-125-18</b>
20 cm/8"	<b>108-103-20</b>		<b>108-111-20</b>		<b>108-121-20</b>	
30,0 cm 12"	<b>108-103-30</b>		<b>108-111-30</b>		<b>108-121-30</b>	



delicate  
 fein  
 délicats  
 finas  
 delicate

14,5 cm/5¾"



blunt / blunt	sharp / blunt	sharp / sharp
108-122-01	108-122-02	108-122-03
curved	curved	curved
108-123-01	108-123-02	108-123-03

**Dissecting Scissors**

Präparierscheren  
 Ciseaux à dissection  
 Tijeras de disección  
 Forbici per dissezione



MAYO

**TC Cutting Edges**  
 TC-Schneiden  
 Tranchant TC  
 Filos de corte TC  
 Taglio TC

	straight		curved	
14,5 cm 5¾"	108-160-14	108-164-14	108-161-14	108-165-14
14,5 cm 5¾"	108-160-14L		108-161-14L	
17,0 cm 6¾"	108-160-17	108-164-17	108-161-17	108-165-17
17,0 cm 6¾"	108-160-17L		108-161-17L	
19,0 cm 7½"	108-160-19		108-161-19	
23,0 cm 9"	108-160-23	108-164-23	108-161-23	108-165-23
28,0 cm 11"	108-160-28		108-161-28	

**TC Cutting Edges**

TC-Schneiden

Tranchant TC

Filos de corte TC

Taglio TC



**MAYO-STILLE**

	blunt / blunt	
15 cm/6"	<b>108-170-15</b>	<b>108-174-15</b>
17,0 cm 6¾"	<b>108-170-17</b>	<b>108-174-17</b>

	curved	
15 cm/6"	<b>108-171-15</b>	<b>108-175-15</b>
17,0 cm 6¾"	<b>108-171-17</b>	<b>108-175-17</b>



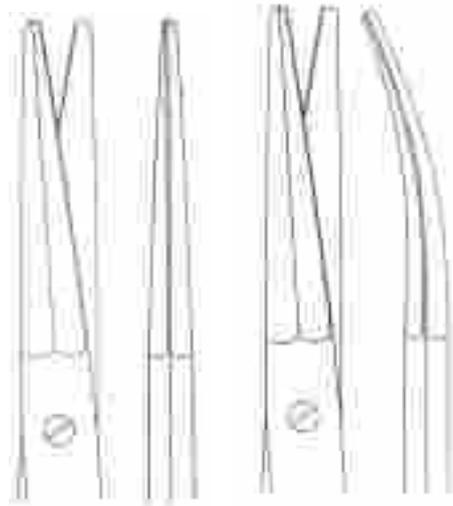
**LEXER**

	straight	curved
16 cm/6¼"	<b>108-190-16</b>	<b>108-191-16</b>
16 cm/6¼"	<b>108-194-16</b>	<b>108-195-16</b>
21 cm/8¼"	<b>108-190-21</b>	<b>108-191-21</b>
21 cm/8¼"	<b>108-194-21</b>	<b>108-195-21</b>



**delicate**  
fein  
déliçats  
finas  
delicate

**GORNEY**



**toothed**  
gezahnt  
dentelés  
dentadas  
dentate

	straight	curved
12,5 cm/5"	<b>108-212-12</b>	
19,5 cm/7¾"	<b>108-212-19</b>	<b>108-213-19</b>

tips with eye for suture



**Suture carrying scissors**  
Fadenführungsschere  
Ciseaux guide-fil  
Tijera guía-hilo  
Forbice guida filo

**LITTLER**

	curved
12cm/4¾"	<b>108-205-12</b>
14cm/5½"	<b>108-205-14</b>



**Arteriotomy scissors**  
Arteriotomie-Schere  
Ciseaux de saignée  
Tijera de la sangría  
Forbici del Bloodletting

**DEBAKEY**  
17,5 cm/7"

**108-215-17**

**TC Cutting Edges**

TC-Schneiden

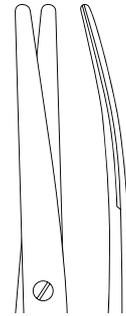
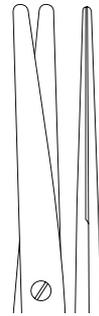
Tranchant TC

Filos de corte TC

Taglio TC



**METZENBAUM**



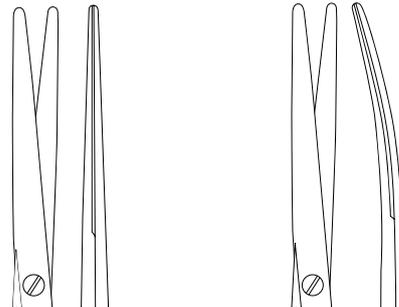
	straight		curved	
11,5 cm 4½"	<b>108-210-11</b>	<b>108-284-11</b>	<b>108-211-11</b>	<b>108-285-11</b>
15 cm/6"	<b>108-280-15</b>	<b>108-284-15</b>	<b>108-281-15</b>	<b>108-285-15</b>
15 cm/6"	<b>108-280-15L</b>		<b>108-281-15L</b>	
15,5 cm	<b>108-210-15</b>		<b>108-211-15</b>	
18 cm/7"	<b>108-280-18</b>	<b>108-284-18</b>	<b>108-281-18</b>	<b>108-285-18</b>
18 cm/7"	<b>108-280-18L</b>		<b>108-281-18L</b>	
20 cm/8"	<b>108-280-20</b>	<b>108-284-20</b>	<b>108-281-20</b>	<b>108-285-20</b>
23 cm/9"	<b>108-280-23</b>	<b>108-284-23</b>	<b>108-281-23</b>	<b>108-285-23</b>
23 cm/9"	<b>108-280-23L</b>		<b>108-281-23L</b>	
25 cm/10"	<b>108-280-25</b>	<b>108-284-25</b>	<b>108-281-25</b>	<b>108-285-25</b>
28 cm/11"	<b>108-280-28</b>	<b>108-284-28</b>	<b>108-281-28</b>	<b>108-285-28</b>
30 cm/12"	<b>108-280-30</b>	<b>108-284-30</b>	<b>108-281-30</b>	<b>108-285-30</b>

**TC Cutting Edges**  
 TC-Schneiden  
 Tranchant TC  
 Filos de corte TC  
 Taglio TC



**blunt/blunt**  
 stumpf/stumpf  
 mousse/mousse  
 romo/romo  
 smusso/smusso

**METZENBAUM-FINO**

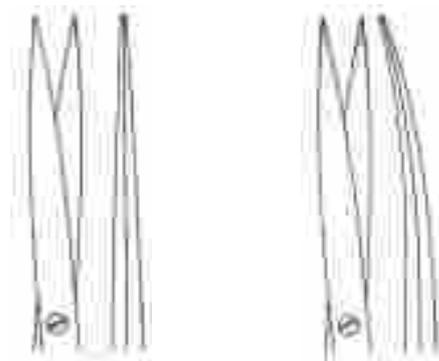


	straight		curved	
15 cm/6"	108-282-15	108-286-15	108-283-15	108-287-15
18 cm/7"	108-282-18	108-286-18	108-283-18	108-287-18
20 cm/8"	108-282-20	108-286-20	108-283-20	108-287-20
23 cm/9"	108-282-23	108-286-23	108-283-23	108-287-23
25 cm/10"	108-282-25	108-286-25	108-283-25	108-287-25
28 cm/11"	108-282-28	108-286-28	108-283-28	108-287-28



**sharp/sharp**  
 spitz/spitz  
 pointue/pointue  
 aguda/aguda  
 acuta/acuta

**METZENBAUM-FINO**



	straight		curved	
14 cm/5½"	108-292-14	108-296-14	108-293-14	108-297-14
18 cm/7"	108-292-18	108-296-18	108-293-18	108-297-18
20 cm/8"	108-292-20	108-296-20	108-293-20	108-297-20
23 cm/9"	108-292-23	108-296-23	108-293-23	108-297-23

# 03

## SCISSORS

### Delicate Dissecting Scissors

Feine Präparierscheren  
Ciseaux délicats à Préparation  
Tijeras finas para preparaciones  
Forbici delicate per dissezione



delicate  
fein  
délicats  
finas  
delicate



11,5 cm/4½"



108-300-11



108-301-11



**RAGNELL**  
13,5 cm/5¼"

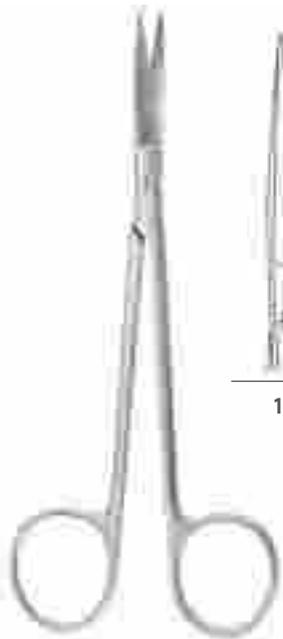


108-312-13



108-313-13

Plastic  
Plastik  
Plastique  
Plástica  
Plastica



**SANVENERO**  
14 cm/5½"



108-302-14



108-303-14



**JOSEPH**  
14 cm/5½"



108-304-14



108-305-14

Plastic  
Plastik  
Plastique  
Plástica  
Plastica



**KILNER**

12 cm/4¾"	<b>108-310-12</b>
12 cm/4¾"	<b>108-314-12</b>
15 cm/6"	<b>108-310-15</b>
15 cm/6"	<b>108-314-15</b>



**LOCKLIN**  
16 cm/6¼"

**108-315-16**

**108-318-16**

**TC Cutting Edges**

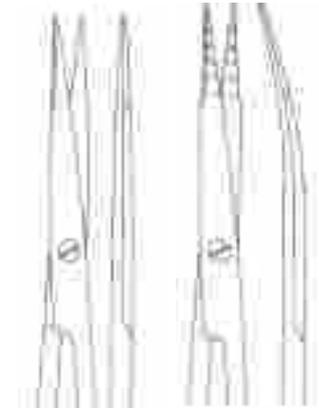
TC-Schneiden  
Tranchant TC  
Filos de corte TC  
Taglio TC

**one toothed cutting edge**  
eine Schneide gezahnt  
une lame dentelée  
una hoja dentada  
una lama dentata



**REYNOLDS**

15 cm/6"	<b>108-320-15</b>	<b>108-321-15</b>
15 cm/6"	<b>108-324-15</b>	<b>108-325-15</b>
18 cm/7"		<b>108-321-18</b>



**TC Cutting Edges**  
 TC-Schneiden  
 Tranchant TC  
 Filos de corte TC  
 Taglio TC



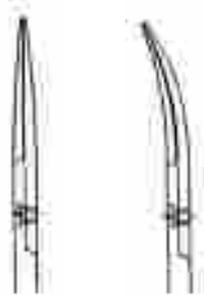
**IRIS-Standard**

	straight		curved	
9cm/3½"	108-240-09	108-344-09	108-241-09	108-345-09
10,5cm/4¼"	108-240-10	108-344-09	108-241-10	108-345-09
10,5cm/4¼"	108-240-10L		108-241-10L	
11,5cm/4½"	108-240-09	108-344-09	108-340-11	108-345-09
12,5cm/5"	108-240-09		108-341-12	



**IRIS-Standard**

round



10,5cm/4¼"	108-342-10	108-343-10
11,5cm/4½"	108-342-11	108-343-11



laterally angled

**IRIS**  
11,5 cm/4½"

108-351-11



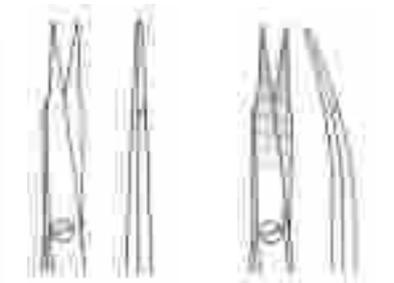
laterally curved

**IRIS**  
11,5 cm/4½"

108-353-11



**STEVENS**  
10,5 cm/4½"



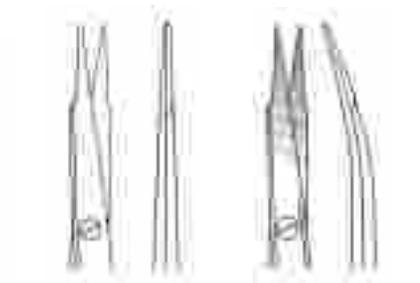
**108-360-11**

**108-361-11**

**sharp/sharp**  
spitz/spitz  
pointue/pointue  
aguda/aguda  
acuta/acuta



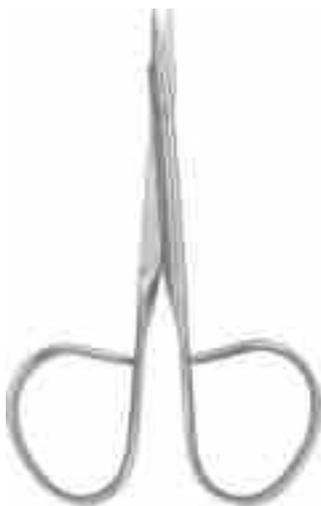
**STEVENS**  
11,5 cm/4½"



**108-362-11**

**108-363-11**

**blunt/blunt**  
stumpf/stumpf  
mousse/mousse  
romo/romo  
smusso/smusso



**STEVENS**  
10,5 cm/4½"



**108-364-10**

**sharp/sharp**  
spitz/spitz  
pointue/pointue  
aguda/aguda  
acuta/acuta



**108-365-10**

**sharp/sharp**  
spitz/spitz  
pointue/pointue  
aguda/aguda  
acuta/acuta



**108-366-10**

**blunt/blunt**  
stumpf/stumpf  
mousse/mousse  
romo/romo  
smusso/smusso



**108-367-10**

**blunt/blunt**  
stumpf/stumpf  
mousse/mousse  
romo/romo  
smusso/smusso

#### TC Cutting Edges

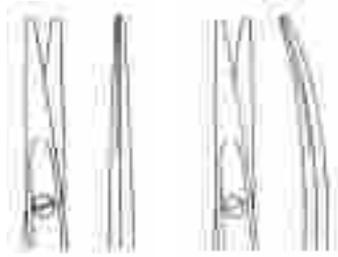
TC-Schneiden  
Tranchant TC  
Filos de corte TC  
Taglio TC

#### Strabismus Scissors

Strabimusscheren  
Ciseaux à strabisme  
Tijeras para estrabismo  
Forbici per strabismo



11 cm/4¼"



108-370-11

108-371-11

108-374-11

108-375-11

#### toothed

gezähnt  
dentelés  
dentada  
dentate



#### Trigeminal Scissors(also for nose)

Trigeminusschere (auch für die Nase)  
Ciseaux pour le nerf trigéminal (aussi pour le nez)  
Tijera para nervio trigémino (también para la nariz)  
Forbici per il nervo trigemino (anche per il naso)



**OLIVECRONA**

23 cm/9"

108-475-23



**POTTS-DE MARTEL**

21 cm/8¼"	<b>108-473-21</b>
24 cm/9½"	<b>108-473-24</b>



**MILLS**

22 cm/8¾"

**108-475-22**



**POTTS-SMITH**

18,5 cm/7¼"

**108-480-18**

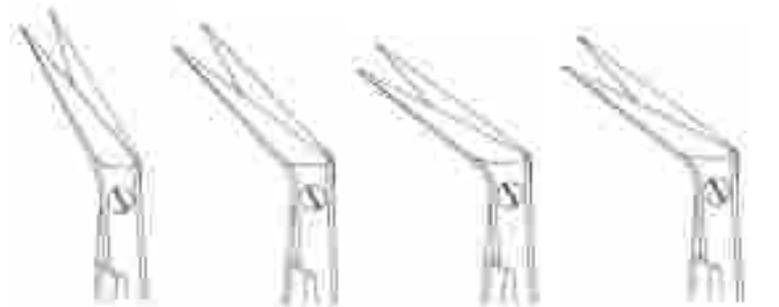
**TC Cutting Edges**

TC-Schneiden  
Tranchant TC  
Filos de corte TC  
Taglio TC



**POTTS-SMITH**

19 cm/7½"



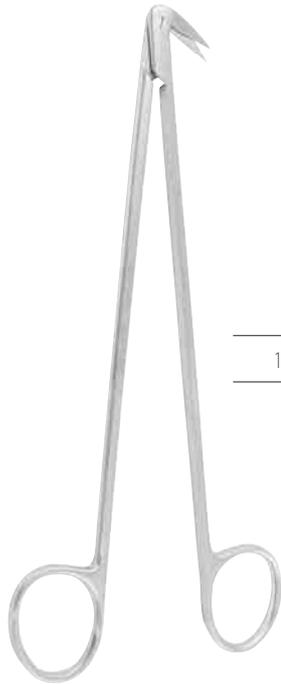
25°	40°	60°	60°
<b>108-480-25</b>	<b>108-480-40</b>	<b>108-480-60</b>	<b>108-480-61</b>
<b>108-484-25</b>	<b>108-484-40</b>	<b>108-484-60</b>	

# 03

## SCISSORS

### Vascular Scissors

Gefäßscheren  
Ciseaux vasculaires  
Tijeras vasculares  
Forbici vascolari



**DIETRICH**



	25°	45°	60°	90°	125°
16 cm/6¼"	<b>108-485-25</b>	<b>108-485-45</b>	<b>108-485-60</b>	<b>108-485-90</b>	<b>108-485-92</b>
18 cm/7"	<b>108-486-25</b>	<b>108-486-45</b>	<b>108-486-60</b>	<b>108-486-90</b>	<b>108-487-25</b>



**DIETRICH**

18 cm/7"

**108-488-25**



**DE BAKEY**



	25°	45°	60°
16 cm/6¼"	<b>108-490-16</b>	<b>108-491-16</b>	<b>108-492-16</b>
23 cm/9"	<b>108-490-23</b>	<b>108-491-23</b>	<b>108-492-23</b>
28 cm/11"	<b>108-490-28</b>	<b>108-491-28</b>	<b>108-492-28</b>



**DE BAKEY**  
15,5 cm/6"

**108-495-15**



**DE BAKEY**  
15,5 cm/6"

**108-497-15**

**Dissecting Scissors**

Präparierscheren  
 Ciseaux à dissection  
 Tijeras de disección  
 Forbici per dissezione

**Never dissecting scissors**

Nerv-Präparierschere  
 Ciseaux a preparation de nerfs  
 Tijera para preparación del nervio  
 Forbici per preparazione di nervi



**KELLY**  
16 cm/6¼"



**108-540-16**



**108-541-16**



**KELLY**  
15 cm/6"



**108-582-15**



**108-583-15**

# 03

## SCISSORS

### Dissecting Scissors Neurosurgical Scissors

Präparierscheren Scheren für Neurochirurgie  
 Ciseaux à dissection Ciseaux neurochirurgicaux  
 Tijeras de disección Tijeras para cirugía neurocirugía  
 Forbici per dissezione Forbici neurochirurgiche



**JAMESON WERBER**  
13 cm/5"

**108-584-13**



**delicate**  
fein  
déliçats  
finas  
delicate



**JAMESON**

15 cm/6"

**108-584-15**

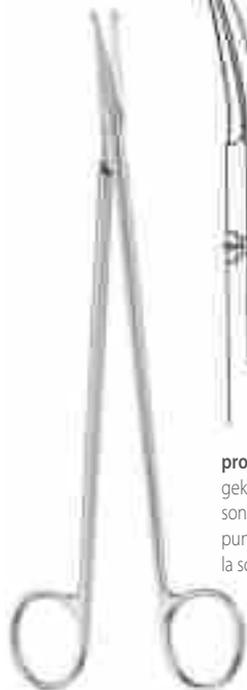
18 cm/7"

**108-585-18**



### Neurosurgical Scissors

Scheren für Neurochirurgie  
 Ciseaux neurochirurgicaux  
 Tijeras para cirugía neurocirugía  
 Forbici neurochirurgiche



**STRULLY**  
22 cm/8¾"

**108-601-22**



**probe pointed**  
geknöpft  
sonde boutonée  
punta de prueba a botonada  
la sonda si è abbottonata

### Trigeminal Scissors

Trigeminusschere  
 Ciseaux pour le nerf triger  
 Tijera para nervio trigémir  
 Forbici per il nervo trigem

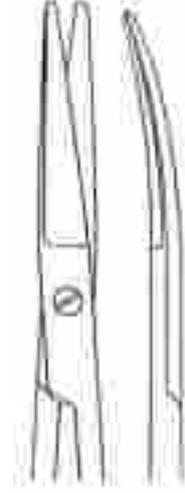


**TOENNIS-ADSON**

18 cm/7"



**108-610-18**



**108-611-18**



**TOENNIS ADSON**  
17,5 cm/7"



**108-609-17**

**very delicate**  
 sehr fein  
 très délicats  
 muy finas  
 molto delicate



**108-609-18**

**delicate**  
 fein  
 délicats  
 finas  
 delicate



**TOENNIS ADSON**  
17,5 cm/7"

**108-613-17**

**TC Cutting Edges**  
 TC-Schneiden  
 Tranchant TC  
 Filos de corte TC  
 Taglio TC

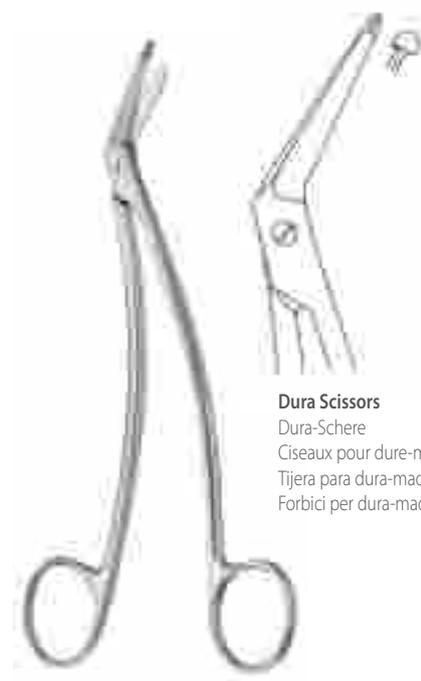


**DANDY**  
17 cm/6¾"

**108-617-17**



**Trigeminal Scissors**  
 Trigininusschere  
 Ciseaux pour le nerf trigeminal  
 Tijera para nervio trigémino  
 Forbici per il nervo trigemino



**SCHMIEDEN TAYLOR**  
17 cm/6¾"

**108-619-17**

**Dura Scissors**  
 Dura-Schere  
 Ciseaux pour dure-mère  
 Tijera para dura-madre  
 Forbici per dura-madre

**TC Cutting Edges**  
 TC-Schneiden  
 Tranchant TC  
 Filos de corte TC  
 Taglio TC

**Gum Scissors**  
 Zahnfleissscheren  
 Ciseaux à gencive  
 Tijeras para encías  
 Forbici per gengive



**GOLDMAN FOX**  
 13 cm/5"



**One toothed cutting edge**  
 Eine Schneide gezahnt  
 Une lame dentelée  
 Una hoja dentada  
 Una lama dentata

108-820-13

108-821-13

108-822-13

108-823-13

**Delicate Scissors, Wire Cutting Scissors**

Feine Scheren, Draht Scheren  
 Ciseaux délicats, Ciseaux coupe-fil  
 Tijeras finas, Tijeras para cortar hilo  
 Forbici delicate, Forbici per tagliare fili



108-824-12

108-825-12

**WAGNER**

12 cm/6¾"

**Wire Cutting Scissors**

Draht Scheren  
 Ciseaux coupe-fil  
 Tijeras para cortar hilo  
 Forbici per tagliare fili



**TC Cutting Edges**

TC-Schneiden  
 Tranchant TC  
 Filos de corte TC  
 Taglio TC

**One toothed cutting edge**

Eine Schneide gezahnt  
 Une lame dentelée  
 Una hoja dentada  
 Una lama dentata

**UNIVERSAL**

12 cm/4¾"

108-831-12

108-835-12

# 03

## SCISSORS

### Bandage Scissors

Verband-Scheren

Ciseaux à bandages

Tijeras para vendajes

Forbici per bendaggi



#### TC Cutting Edges

TC-Schneiden

Tranchant TC

Filos de corte TC

Taglio TC



9 cm/3½"	<b>108-901-09</b>	
11 cm/4¼"	<b>108-901-11</b>	
14 cm/5½"	<b>108-901-14</b>	<b>108-905-14</b>
16 cm/6¼"	<b>108-901-16</b>	
18 cm/7"	<b>108-901-18</b>	<b>108-905-18</b>
20 cm/8"	<b>108-901-20</b>	<b>108-905-20</b>
25 cm/10"	<b>108-901-25</b>	



**black**  
schwarz  
noir  
negro  
nero

**blue**  
blau  
bleu  
azul  
blu

**green**  
grün  
vert  
verde  
verde

15 cm/6"	<b>108-950-15</b>	<b>108-950-15B</b>	<b>108-950-15G</b>
18 cm/7"	<b>108-950-18</b>	<b>108-950-18B</b>	<b>108-950-18G</b>

**red**  
rot  
rouge  
rojo  
rosso

**yellow**  
gelb  
jaune  
amarillo  
giallo

**white**  
weiß  
blanc  
blanco  
bianco

15 cm/6"	<b>108-950-15R</b>	<b>108-950-15Y</b>	<b>108-950-15W</b>
18 cm/7"	<b>108-950-18R</b>	<b>108-950-18Y</b>	<b>108-950-18W</b>

## **Super Cut Scissors**

Super Cut Scheren

Super Cut Ciseaux

Super Cut Tijeras

Super Cut Forbici

# 04

## SUPER CUT SCISSORS

Operating Scissors  
Chirurgische Scheren  
Ciseaux à chirurgie  
Tijeras para cirugía  
Forbici per chirurgia



**TC Cutting Edges**  
TC-Schneiden  
Tranchant TC  
Filos de corte TC  
Taglio TC

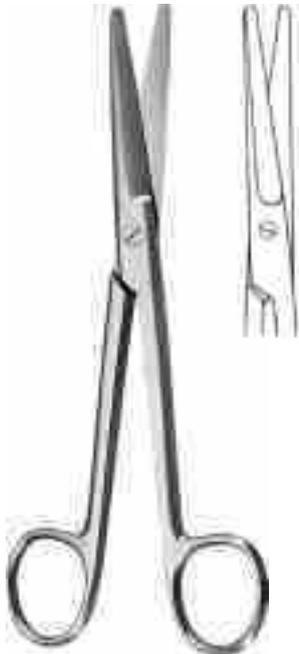


	blunt / blunt		sharp / blunt		sharp / sharp	
10,5 cm/4¼"	<b>107-102-10</b>	-	<b>107-110-10</b>	-	<b>107-120-10</b>	-
11,5 cm/4½"	<b>107-102-11</b>	-	<b>107-110-11</b>	-	<b>107-120-11</b>	-
13 cm/5"	<b>107-102-13</b>	-	<b>107-110-13</b>	-	<b>107-120-13</b>	-
14,5 cm/5¾"	<b>107-102-14</b>	<b>107-104-14</b>	<b>107-110-14</b>	<b>107-114-14</b>	<b>107-120-14</b>	<b>107-124-14</b>
15,5 cm/6¼"	<b>107-102-15</b>	-	<b>107-110-15</b>	-	<b>107-120-15</b>	-
16,5 cm/6½"	<b>107-102-16</b>	<b>107-104-16</b>	<b>107-110-16</b>	<b>107-114-16</b>	<b>107-120-16</b>	<b>107-124-16</b>
18,5 cm/7¼"	<b>107-102-18</b>	-	<b>107-110-18</b>	-	<b>107-120-18</b>	-
20 cm/8"	<b>107-102-20</b>	-	<b>107-110-20</b>	-	<b>107-120-20</b>	-



	blunt / blunt		sharp / blunt		sharp / sharp	
10,5 cm/4¼"	<b>107-103-10</b>	-	<b>107-111-10</b>	-	<b>107-121-10</b>	-
11,5 cm/4½"	<b>107-103-11</b>	-	<b>107-111-11</b>	-	<b>107-121-11</b>	-
13 cm/5"	<b>107-103-13</b>	-	<b>107-111-13</b>	-	<b>107-121-13</b>	-
14,5 cm/5¾"	<b>107-103-14</b>	<b>107-105-14</b>	<b>107-111-14</b>	<b>107-115-14</b>	<b>107-121-14</b>	<b>107-125-14</b>
15,5 cm/6¼"	<b>107-103-15</b>	-	<b>107-111-15</b>	-	<b>107-121-15</b>	-
16,5 cm/6½"	<b>107-103-16</b>	<b>107-105-16</b>	<b>107-111-16</b>	<b>107-115-16</b>	<b>107-121-16</b>	<b>107-125-16</b>
18,5 cm/7¼"	<b>107-103-18</b>	-	<b>107-111-18</b>	-	<b>107-121-18</b>	-
20 cm/8"	<b>107-103-20</b>	-	<b>107-111-20</b>	-	<b>107-121-20</b>	-

**TC Cutting Edges**  
 TC-Schneiden  
 Tranchant TC  
 Filos de corte TC  
 Taglio TC


**MAYO**

	straight		curved	
14,5 cm 5¾"	<b>107-160-14</b>	<b>107-164-14</b>	<b>107-161-14</b>	<b>107-165-14</b>
17,0 cm 6¾"	<b>107-160-17</b>	<b>107-164-17</b>	<b>107-161-17</b>	<b>107-165-17</b>
23,0 cm 9"	<b>107-160-23</b>	<b>107-164-23</b>	<b>107-161-23</b>	<b>107-165-23</b>


**LEXER**

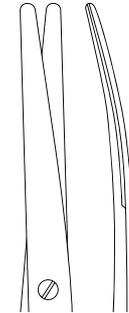
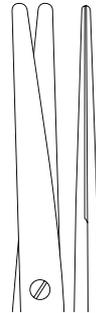
**TC Cutting Edges**  
 TC-Schneiden  
 Tranchant TC  
 Filos de corte TC  
 Taglio TC

	straight	curved
16 cm/6¼"	<b>107-190-16</b>	<b>107-191-16</b>
16 cm/6¼"	<b>107-194-16</b>	<b>107-195-16</b>
21 cm/8¼"	<b>107-190-21</b>	<b>107-191-21</b>
21 cm/8¼"	<b>107-194-21</b>	<b>107-195-21</b>

## SUPER CUT SCISSORS



METZENBAUM



**TC Cutting Edges**

TC-Schneiden

Tranchant TC

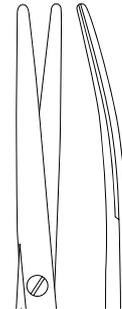
Filos de corte TC

Taglio TC

	straight		curved	
11,5 cm 4½"	<b>107-210-11</b>	<b>107-284-11</b>	<b>107-211-11</b>	<b>107-285-11</b>
15 cm/6"	<b>107-280-15</b>	<b>107-284-15</b>	<b>107-281-15</b>	<b>107-285-15</b>
18 cm/7"	<b>107-280-18</b>	<b>107-284-18</b>	<b>107-281-18</b>	<b>107-285-18</b>
20 cm/8"	<b>107-280-20</b>	<b>107-284-20</b>	<b>107-281-20</b>	<b>107-285-20</b>
23 cm/9"	<b>107-280-23</b>	<b>107-284-23</b>	<b>107-281-23</b>	<b>107-285-23</b>
25 cm/10"	<b>107-280-25</b>	<b>107-284-25</b>	<b>107-281-25</b>	<b>107-285-25</b>
28 cm/11"	<b>107-280-28</b>	<b>107-284-28</b>	<b>107-281-28</b>	<b>107-285-28</b>
30 cm/12"	<b>107-280-30</b>	<b>107-284-30</b>	<b>107-281-30</b>	<b>107-285-30</b>



METZENBAUM-FINO



	straight		curved	
15 cm/6"	<b>107-282-15</b>	<b>107-286-15</b>	<b>107-283-15</b>	<b>107-287-15</b>
18 cm/7"	<b>107-282-18</b>	<b>107-286-18</b>	<b>107-283-18</b>	<b>107-287-18</b>
20 cm/8"	<b>107-282-20</b>	<b>107-286-20</b>	<b>107-283-20</b>	<b>107-287-20</b>
23 cm/9"	<b>107-282-23</b>	<b>107-286-23</b>	<b>107-283-23</b>	<b>107-287-23</b>
25 cm/10"	<b>107-282-25</b>	<b>107-286-25</b>	<b>107-283-25</b>	<b>107-287-25</b>
28 cm/11"	<b>107-282-28</b>	<b>107-286-28</b>	<b>107-283-28</b>	<b>107-287-28</b>



**KILNER**

**TC Cutting Edges**  
TC-Schneiden  
Tranchant TC  
Filos de corte TC  
Taglio TC

12 cm/4¾"

**08-310-12**

**108-314-12**

15 cm/6"

**108-310-15**

**108-314-15**

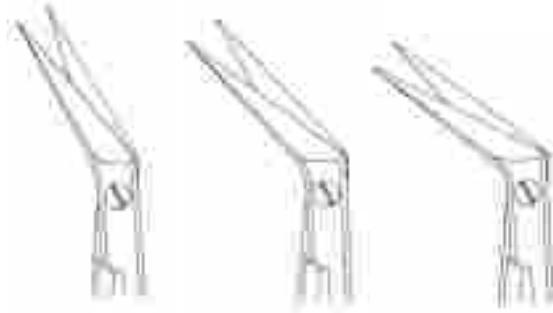
## SUPER CUT SCISSORS

**TC Cutting Edges**

TC-Schneiden  
Tranchant TC  
Filos de corte TC  
Taglio TC



**POTTS-SMITH**  
19cm/7½"



25°	40°	60°
<b>107-480-25</b>	<b>107-480-40</b>	<b>107-480-60</b>
<b>107-484-25</b>	<b>107-484-40</b>	<b>107-484-60</b>

## **Micro Scissors**

Mikro-Scheren

Micro-ciseaux

Micro Tijeras

Micro Forbici



**CASTROVIEJO**  
10 cm/3¾"



**109-133-10**

**sharp/sharp**  
spitz/spitz  
pointu/pointu  
agudo/agudo  
appuntato/appuntato



**109-135-10**

**blunt/blunt**  
stumpf/stumpf  
mousse/mousse  
romo/romo  
smusso/smusso



**VANNAS**  
8 cm/3¼"



**109-140-08**



**109-141-08**



**109-143-08**



**10 mm**  
**length of blades**  
Blattlänge  
longeur des lames  
largo de hojas  
lunghezza della lama



**straight**



**curved**

14 cm/5½"	<b>109-202-14</b>	<b>109-203-14</b>
15 cm/6"	<b>109-202-15</b>	<b>109-203-15</b>
16,5 cm/6½"	<b>109-202-16</b>	<b>109-203-16</b>
18 cm/7"	<b>109-202-18</b>	<b>109-203-18</b>



**14 mm**  
**length of blades**  
Blattlänge  
longeur des lames  
largo de hojas  
lunghezza della lama



**straight**



**curved**

16,5 cm/6½"	<b>109-204-16</b>	<b>109-205-16</b>
18 cm/7"	<b>109-204-18</b>	<b>109-205-18</b>

**Micro Scissors**

Mikro-Scheren  
Micro-ciseaux  
Micro Tijeras  
Micro Forbici

**MICRO SCISSORS**

**Micro dissecting scissors**

Mikro-Präparierschere  
Micro-ciseaux à dissection  
Micro Tijeras de disección  
Micro Forbici per dissezione



	straight	curved	curved
14,5 cm/5¾"	<b>109-220-14</b>	<b>109-221-14</b>	<b>109-223-14</b>
18 cm/7"	<b>109-220-18</b>	<b>109-221-18</b>	<b>109-223-18</b>
23 cm/9"	<b>109-220-23</b>	<b>109-221-23</b>	

sharp/sharp

spitz/spitz

pointu/pointu

agudo/agudo

appuntato/appuntato

sharp/sharp

spitz/spitz

pointu/pointu

agudo/agudo

appuntato/appuntato

blunt/blunt

stumpf/stumpf

mousse/mousse

romo/romo

smusso/smusso



**VANNAS**

14,5 cm/5¾"

**109-228-14**



**VANNAS**

14,5 cm/5¾"

**109-229-14**



**GOMEL**

16 cm/6¼"

**109-221-16**

# 05

## MICRO SCISSORS

### Vascular Micro Scissors

Mikro-Gefäßscheren

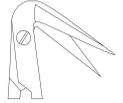
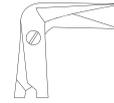
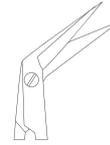
Micro-ciseaux vasculaires

Tijeras microquirúrgicas vasculares

Forbici micro-chirurgici vascolari



**14 mm**  
Cutting edge  
Schneideblatt  
Tranchant  
Filo cortante  
Filo di lama



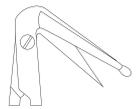
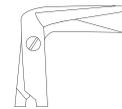
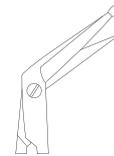
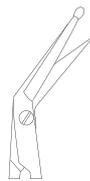
**sharp**  
spitz  
pointu  
agudo  
appuntato

	25°	45°	60°	90°	125°
<b>FINE</b>	<b>109-224-25</b>	<b>109-224-45</b>	<b>109-224-60</b>	<b>109-224-90</b>	<b>109-225-00</b>



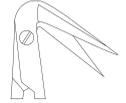
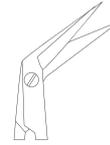
18 cm/7"

**14 mm**  
Cutting edge  
Schneideblatt  
Tranchant  
Filo cortante  
Filo di lama



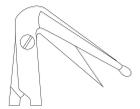
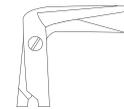
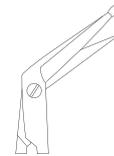
**1 probe-pointed blade**  
1 Blatt geknöpft  
1 lame boutonnée  
1 hoja botonada  
1 lama bottonnta

	25°	45°	60°	90°	125°
<b>FINE</b>	<b>109-225-25</b>	<b>109-225-45</b>	<b>109-225-60</b>	<b>109-225-90</b>	<b>109-226-00</b>

**Cutting edge**  
 Schneideblatt  
 Tranchant  
 Filo cortante  
 Filo di lama

**sharp**  
 spitz  
 pointu  
 agudo  
 appuntato

		25°	45°	60°	90°	125°
14 mm	<b>FINE</b>	<b>109-230-25</b>	<b>09-230-45</b>	<b>09-230-60</b>	<b>09-230-90</b>	<b>09-231-25</b>
		<b>109-230-25B</b>	<b>109-230-45B</b>	<b>109-230-60B</b>	<b>109-230-90B</b>	<b>109-231-25B</b>
10 mm	<b>MICRO</b>	<b>109-234-25</b>	<b>109-234-45</b>	<b>109-234-60</b>	<b>109-234-90</b>	<b>109-235-25</b>
		<b>109-234-25B</b>	<b>109-234-45B</b>	<b>109-234-60B</b>	<b>109-234-90B</b>	<b>109-235-25B</b>
7 mm	<b>NANO</b>	<b>109-236-25</b>	<b>109-236-45</b>	<b>109-236-60</b>	<b>109-236-90</b>	<b>109-237-25</b>

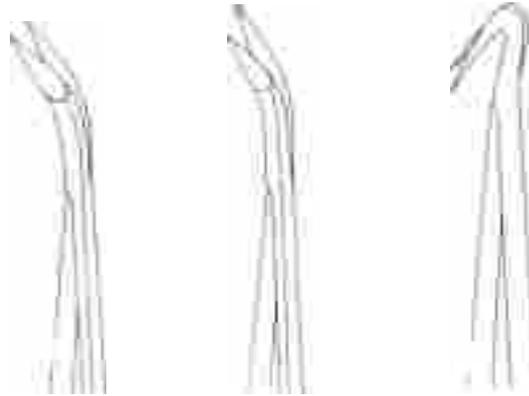

**TOLEDO**  
 16,5 cm/6½"

**Cutting edge**  
 Schneideblatt  
 Tranchant  
 Filo cortante  
 Filo di lama

**1 probe-pointed blade**  
 1 Blatt geknöpft  
 1 lame boutonnée  
 1 hoja botonada  
 1 lama bottonnta

		25°	45°	60°	90°	125°
14 mm	<b>FINE</b>	<b>109-232-25</b>	<b>109-232-45</b>	<b>109-232-60</b>	<b>109-232-90</b>	<b>109-233-25</b>



**NAGEL**



**1 probe-pointed blade**

1 Blatt geknöpft

1 lame boutonnée

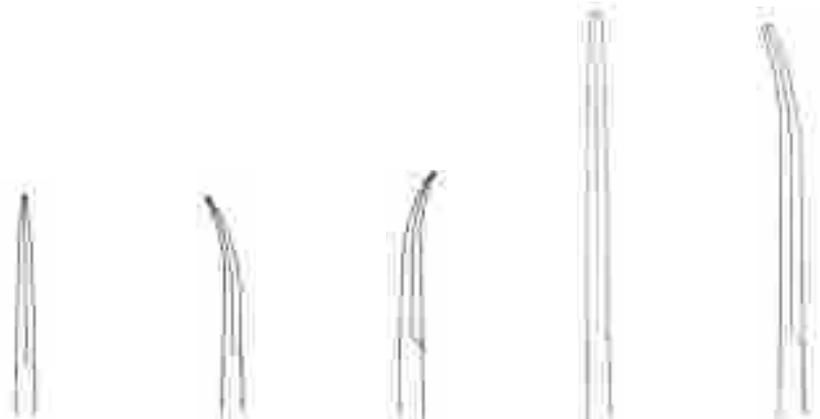
1 hoja botonada

1 lama bottonnta

	45°	45°	125°
19 cm/7½"			<b>109-247-19</b>
20 cm/8"	<b>109-245-20</b>	<b>109-246-20</b>	



**YASARGIL**



**Micro dissecting scissors**

Mikro-Präparierschere

Micro-ciseaux à dissection

Micro Tijeras de disección

Micro Forbici per dissezione

	straight	curved	curved down	straight	curved
16,5 cm/6½"	<b>109-250-16</b>	<b>109-251-16</b>			
20 cm/8"	<b>109-250-20</b>	<b>109-251-20</b>	<b>109-253-20</b>	<b>109-254-20</b>	<b>109-254-20</b>

**Micro Scissors**

Mikro-Scheren  
Micro-ciseaux  
Micro Tijeras  
Micro Forbici

**MICRO SCISSORS**



**YASARGIL**

**toothed**  
gezahnt  
dentelés  
dentadas  
dentate

				
	<b>straight</b>	<b>straight</b>	<b>curved</b>	<b>curved down</b>
22,5 cm/9"	<b>109-250-22</b>	<b>109-252-22</b>	<b>109-251-22</b>	<b>109-253-22</b>
24,5 cm/9¾"			<b>109-251-24</b>	

**Micro dissecting scissors**

Mikro-Präparierschere  
Micro-ciseaux à dissection  
Micro Tijeras de disección  
Micro Forbici per dissezione

		
	<b>straight</b>	<b>curved</b>
22,5 cm/9"	<b>109-254-22</b>	<b>109-255-22</b>

		
<b>VANNAS</b>	<b>straight</b>	<b>curved</b>
22,5 cm/9"	<b>109-248-23</b>	<b>109-249-23</b>



YASARGIL	straight	curved
12 cm/4¾"	109-260-12	109-261-12
16 cm/6¼"	109-260-16	109-261-16
18,5 cm/7¼"	109-260-18	109-261-18



VANNAS	straight	curved	angled
12 cm/4¾"	109-262-12	109-263-12	109-265-12
16 cm/6¼"	109-262-16	109-263-16	

toothed  
gezähnt  
dentelés  
dentadas  
dentate



MILLESİ	straight	curved
16 cm/6¼"	109-270-16	109-271-16

Vein scissors  
Venenschere  
Ciseaux pour veines  
Tijera para venas  
Forbici per vene



45° angled to side  
seitwärts abgewinkelt  
coudés latéralement  
acodadas hacia el lado  
angolata lateralmente

BIEMER  
13 cm/5"

109-264-13

POTTS-YASARGIL  
18,5 cm/7¼"

109-261-19



		
	<b>straight</b>	<b>curved</b>
18,5 cm/7¼"	<b>109-266-18</b>	<b>109-267-18</b>

		
	<b>straight</b>	<b>curved</b>
<b>VANNAS</b> 18,5 cm/7¼"	<b>109-268-18</b>	<b>109-269-18</b>



**JACOBSON**  
19 cm/7½"

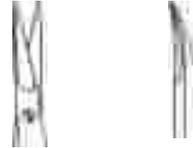
**109-257-19**

# 05

## MICRO SCISSORS

### Micro Scissors

Mikro-Scheren  
Micro-ciseaux  
Micro Tijeras  
Micro Forbici



	straight	curved
15 cm/5"	<b>109-300-15</b>	<b>109-301-15</b>
18 cm/7"	<b>109-300-18</b>	<b>109-301-18</b>
18 cm/7"	<b>109-302-18</b>	<b>109-303-18</b>



**toothed**  
gezahnt  
dentelés  
dentadas  
dentate

	straight	curved
15 cm/5"	<b>109-304-15</b>	<b>109-305-15</b>
18 cm/7"	<b>109-304-18</b>	<b>109-305-18</b>



**round cutting blades**  
runde Schneideblätter  
lames rondes  
hojas redondas  
lame rotonde

	sharp/sharp	blunt/blunt
15 cm/5"	<b>109-307-15</b>	<b>109-309-15</b>
18 cm/7"	<b>109-307-18</b>	<b>109-309-18</b>



**TOLEDO**  
16,5 cm/6½"

**Cutting edge**

 Schneideblatt  
 Tranchant  
 Filo cortante  
 Filo di lama


	straight	curved
7 mm	<b>109-356-07</b>	<b>109-357-07</b>
10 mm	<b>109-356-10</b>	<b>109-357-10</b>
14 mm	<b>109-356-14</b>	<b>109-357-14</b>

**Ergonomic handle**
**Sophisticated design**
**Sure and fine feeling in hand, well balanced**
**Easy to clean - No more dirt catching knurlings**

 Ergonomischer Griff  
 Ansprechendes Design  
 Sichere und feinfühlig Handhabung  
 Leichtes reinigen – keine schmutzanfälligen Riefelungen

 poignée ergonomique  
 aspect attrayant  
 une manipulation délicate et en sécurité  
 la précision du geste opératoire  
 un nettoyage et une décontamination aisés

 mango ergonomico  
 diseño llamativo  
 manipulación seguro y delicado  
 limpieza fácil -las estriadas no son susceptible a la suciedad

 manico ergonomico  
 Design appariscente  
 maneggio sicuro e delicato  
 purificazione facile - non incline de la sporcizia

**Round handle**  
 Rundgriff  
 Manche rond  
 Mango redondo  
 Manico rotondo



**Cutting edge 10mm**

Schneide 10mm

Tranchant 10mm

Filo cortante 10 mm

Filo di lama 10mm



	straight	curved
15 cm/5"	<b>109-710-15</b>	<b>109-711-15</b>
18 cm/7"	<b>109-710-18</b>	<b>109-711-18</b>
21 cm/8¼"	<b>109-710-21</b>	<b>109-711-21</b>
23 cm/9"	<b>109-710-23</b>	<b>109-711-23</b>

**Flat handle**  
 Flachgriff  
 Manche plat  
 Mango plano  
 Manico piatto



**Cutting edge 10mm**

Schneide 10mm

Tranchant 10mm

Filo cortante 10 mm

Filo di lama 10mm



	straight	curved
15 cm/5"	<b>109-712-15</b>	<b>109-713-15</b>
18 cm/7"	<b>109-712-18</b>	<b>109-713-18</b>
21 cm/8¼"	<b>109-712-21</b>	<b>109-713-21</b>
23 cm/9"	<b>109-712-23</b>	<b>109-713-23</b>

## **Forceps**

Pinzetten

Pinces

Pinzas

Pinze



	Standard	curved	narrow	curved	USA	curved
10,0 cm/3¾"	<b>110-102-10</b>	<b>110-103-10</b>	<b>110-110-10</b>	<b>110-111-10</b>	-	-
11,5 cm/4½"	<b>110-102-11</b>	<b>110-103-11</b>	<b>110-110-11</b>	<b>110-111-11</b>	-	-
12,0 cm/4¾"	-	-	-	-	<b>110-104-12</b>	<b>110-105-12</b>
13cm/5"	<b>110-102-13</b>	<b>110-103-13</b>	<b>110-110-13</b>	<b>110-111-13</b>	<b>110-104-13</b>	<b>110-105-13</b>
14,5cm/5¾"	<b>110-102-14</b>	<b>110-103-14</b>	<b>110-110-14</b>	<b>110-111-14</b>	<b>110-104-14</b>	<b>110-105-14</b>
15,5cm/6"	-	-	-	-	<b>110-104-15</b>	<b>110-105-15</b>
16,0 cm/6¼"	<b>110-102-16</b>	<b>110-103-16</b>	<b>110-110-16</b>	<b>110-111-16</b>	-	-
18,0 cm/7"	<b>110-102-18</b>	<b>110-103-18</b>	<b>110-110-18</b>	<b>110-111-18</b>	<b>110-104-18</b>	<b>110-105-18</b>
20,0 cm/8"	<b>110-102-20</b>	<b>110-103-20</b>	<b>110-110-20</b>	<b>110-111-20</b>	-	-
21,0 cm/8¼"	-	-	-	-	<b>110-104-21</b>	<b>110-105-21</b>
23,0 cm/9"	<b>110-102-23</b>	<b>110-103-23</b>	-	-	-	-
25,0 cm/9¾"	<b>110-102-25</b>	<b>110-103-25</b>	<b>110-110-25</b>	<b>110-111-25</b>	<b>110-104-25</b>	<b>110-105-25</b>
30,0 cm/11¾"	<b>110-102-30</b>	<b>110-103-30</b>	<b>110-110-30</b>	<b>110-111-30</b>	-	-
31,0cm/12¼"	-	-	-	-	<b>110-104-31</b>	<b>110-105-31</b>
35,0 cm/13¾"	<b>110-102-35</b>	<b>110-103-35</b>	-	-	-	-
40,0 cm/15¾"	<b>110-102-40</b>	<b>110-103-40</b>	-	-	-	-
50,0 cm/19¾"	<b>110-102-50</b>	<b>110-103-50</b>	-	-	-	-


**with TC inserts**

 Mit TC-Einsätzen  
 A mors TC  
 Con bocas TC  
 Con morso TC

13cm/5"	<b>110-114-13</b>
14,5cm/5¾"	<b>110-114-14</b>
16,0 cm/6¼"	<b>110-114-16</b>
18,0 cm/7"	<b>110-114-18</b>
20,0 cm/8"	<b>110-114-20</b>
23,0 cm/9"	<b>110-114-23</b>
25,0 cm/9¾"	<b>110-114-25</b>


**POTTS-SMITH**
**with TC inserts**

 Mit TC-Einsätzen  
 A mors TC  
 Con bocas TC  
 Con morso TC


	straight	straight	curved
15,5 cm/6"	<b>110-112-15</b>	<b>110-116-15</b>	110-113-15
18 cm/7"	<b>110-112-18</b>	<b>110-116-18</b>	110-113-18
20 cm/8"	<b>110-112-20</b>	<b>110-116-20</b>	110-113-20
21 cm/8¼"	<b>110-112-21</b>	<b>110-116-21</b>	110-113-21
23 cm/9"	<b>110-112-23</b>	<b>110-116-23</b>	110-113-23
25 cm/10"	<b>110-112-25</b>	<b>110-116-25</b>	-
30 cm/12"	<b>110-112-30</b>	<b>110-116-30</b>	-

# 06

## FORCEPS

### Dissecting Forceps

Präparierzange  
Pinza per dissezione  
pince à dissection  
pinzas de disección



**with TC inserts**

Mit TC-Einsätzen  
A mors TC  
Con bocas TC  
Con morso TC



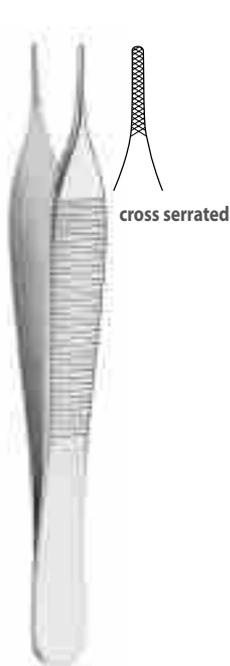
angled



angled downwards



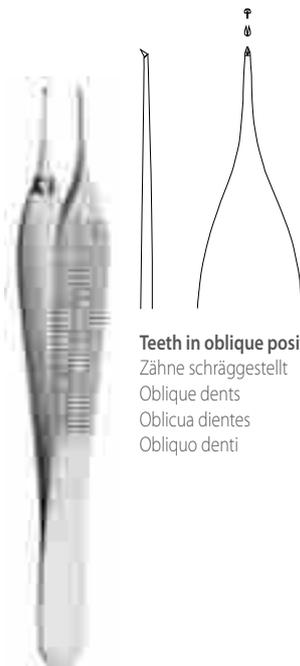
ADSON	Standard	Tc	ADSON	ADSON MICRO	ADSON MICRO
10,5 cm/4¼"	110-170-12	110-174-12	110-171-12	110-176-12	110-177-12
15,0 cm/6"	110-170-15	110-174-15	110-171-15	110-176-15	110-177-15
18,0 cm/7"	110-170-18				



cross serrated

ADSON  
12cm/4¾"

110-178-12



Teeth in oblique position  
Zähne schräggestellt  
Oblique dents  
Oblicua dientes  
Obliquo denti

ADSON BIEMER MICRO  
12cm/4¾"

110-187-12



BROWN

	8x8 teeth
12cm/4¾"	110-189-12
15,0 cm/6"	110-189-15
16,0 cm/6¼"	110-189-16
20,0 cm/8"	110-189-20
25,0cm/9¾"	110-189-25



serrated



**110-206-18**

**JEFFERSON**  
18 cm/7"



		
0,4 mm	0,4 mm	0,5 mm
11 cm/4¼"	15 cm/6"	18 cm/7"
<b>110-210-11</b>	<b>110-210-15</b>	<b>110-210-18</b>

sharp  
spitz  
pointue  
aguda  
acuta

**JACOBSON**

**with TC inserts**  
Mit TC-Einsätzen  
A mors TC  
Con bocas TC  
Con morso TC



sharp  
spitz  
pointue  
aguda  
acuta



blunt  
stumpf  
mousse  
romo  
smusso

**110-212-19**      **110-214-19**



19,5 cm/7¾"



0,5  
regular profile  
Normalprofil  
profil regulaire  
perfil regular  
profilo regolare

with dissector end  
mit Schaberende  
à rugine  
con rascador  
con estremità

**CUSHING-TAYLOR**  
18,5 cm/7¼"

**110-226-18**



**GRUENWALD**  
18,5 cm/7¼"

**110-228-18**

# 06

## FORCEPS

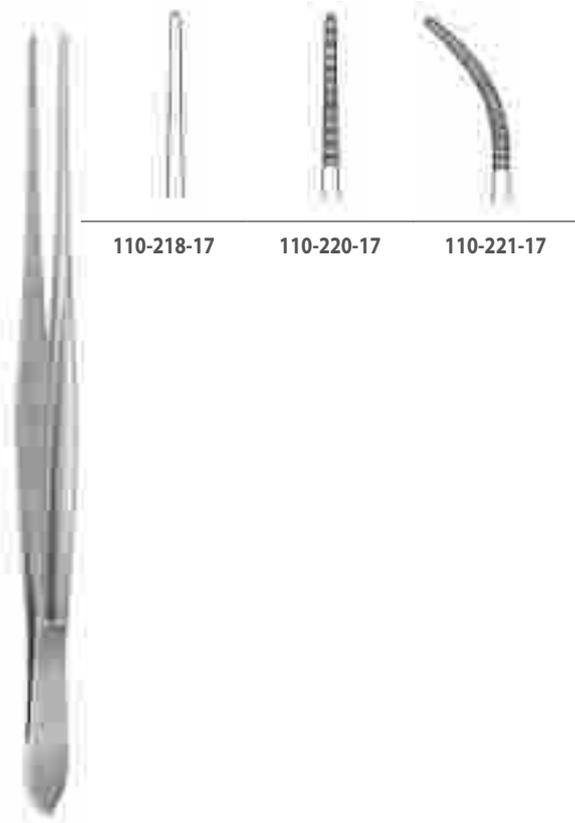
### Dissecting Forceps

Präparierzange  
Pinza per dissezione  
pinces à dissection  
pinzas de disección



#### with TC inserts

Mit TC-Einsätzen  
A mors TC  
Con bocas TC  
Con morso TC



110-218-17      110-220-17      110-221-17

**CUSHING**  
17 cm/6¾"



110-224-17      110-225-17

**CUSHING**  
17 cm/6¾"

**0,5  
regular profile**  
Normalprofil  
profil regulaire  
profil regular  
profilo regolare



**0,4  
mini profile**  
Miniprofil  
profil mini  
perfil mini  
profilo mini

**with TC inserts**  
Mit TC-Einsätzen  
A mors TC  
Con bocas TC  
Con morso TC



**McINDOE**  
15cm/6"

110-257-15

110-258-15



**SEMKEN**

	straight	curved
12,5cm/5"	<b>110-260-12</b>	<b>110-261-12</b>
15,5cm/6"	<b>110-260-15</b>	<b>110-261-15</b>



**TAYLOR**  
17 cm/6¾"

**110-274-17**



**with dissector end**  
mit Schaberende  
à rugine  
con rascador  
con estremità a forma di raschino

**TAYLOR**  
17 cm/6¾"

**110-278-17**



**with dissector end**  
mit Schaberende  
à rugine  
con rascador  
con estremità a forma di raschino

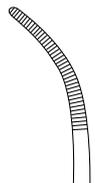
**TAYLOR**  
18,5 cm/7¼"

**110-277-17**



**BROPHY**  
20 cm/8"

**110-288-20**



**110-289-20**



**DUEHRSEN**  
20 cm/8"

**110-314-20**

# 06

## FORCEPS

### Dissecting Forceps

Präparierzange  
Pinza per dissezione  
pince à dissection  
pinzas de disección



GERALD

18 cm/7"	<b>110-302-18</b>	<b>110-303-18</b>
23 cm/9"	<b>110-302-23</b>	



GERALD  
17,5 cm/7"

**110-304-17**

**with TC inserts**  
Mit TC-Einsätzen  
A mors TC  
Con bocas TC  
Con morso TC



GERALD  
18cm/7"

**110-305-18**



WANGENSTEEN

15 cm/6"	<b>110-324-15</b>
23,0 cm/9"	<b>110-324-23</b>

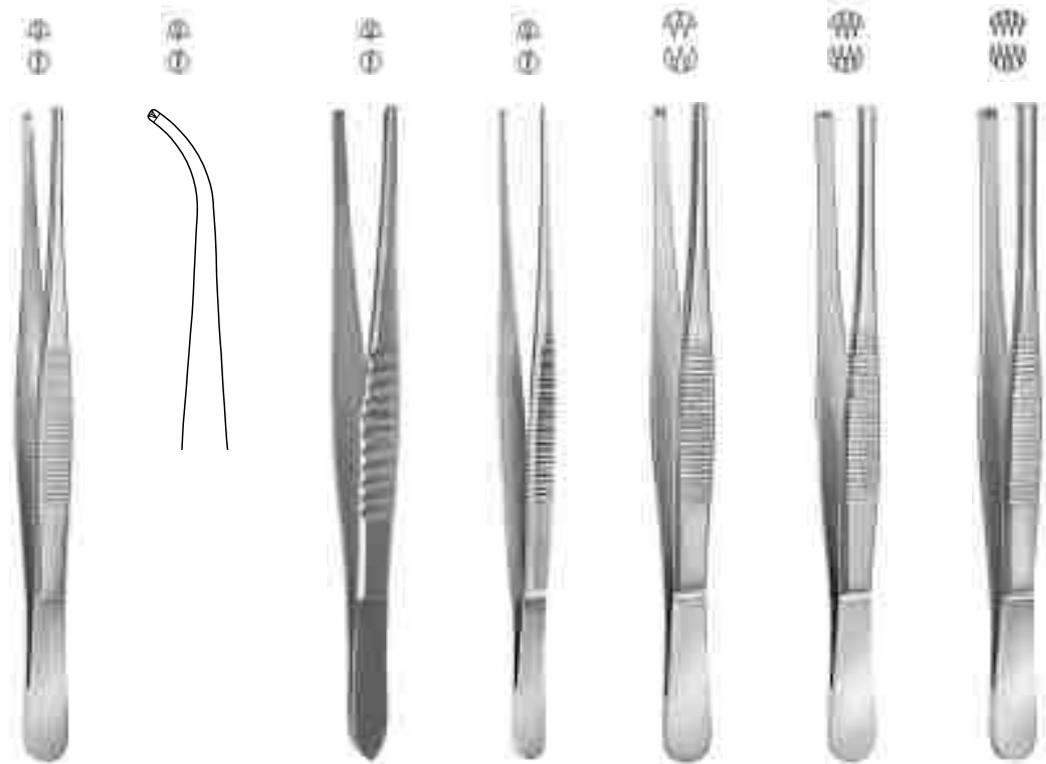


WANGENSTEEN

15 cm/6"	<b>110-326-15</b>
23,0 cm/9"	<b>110-326-23</b>
25,0 cm/9¾"	<b>110-326-25</b>



**with TC inserts**  
Mit TC-Einsätzen  
A mors TC  
Con bocas TC  
Con morso TC



	Standard	curved	USA	narrow	2x3 teeth	3x4 teeth	4x5 teeth
10,5 cm/4¼"	<b>110-120-10</b>	-	-	<b>110-130-10</b>	-	-	-
11,5 cm/4½"	<b>110-120-11</b>	-	-	<b>110-130-11</b>	<b>110-140-11</b>	-	-
12,0 cm/4¾"	-	-	<b>110-122-12</b>	-	-	-	-
13cm/5"	-	<b>110-121-13</b>	<b>110-122-13</b>	<b>110-130-13</b>	<b>110-140-13</b>	<b>110-150-13</b>	<b>110-160-13</b>
14,5cm/5¾"	<b>110-120-13</b>	-	<b>110-122-14</b>	<b>110-130-14</b>	<b>110-140-14</b>	<b>110-150-14</b>	<b>110-160-14</b>
15,5cm/6"	<b>110-120-14</b>	-	<b>110-122-15</b>	<b>110-130-15</b>	-	<b>110-150-15</b>	-
16,0 cm/6¼"	-	-	-	<b>110-130-16</b>	<b>110-140-16</b>	<b>110-150-16</b>	<b>110-160-16</b>
18,0 cm/7"	<b>110-120-16</b>	<b>110-121-18</b>	<b>110-122-18</b>	<b>110-130-18</b>	<b>110-140-18</b>	<b>110-150-18</b>	-
20,0 cm/8"	<b>110-120-18</b>	-	-	<b>110-130-20</b>	<b>110-140-20</b>	<b>110-150-20</b>	<b>110-160-20</b>
21,0 cm/8¼"	-	-	<b>110-122-21</b>	-	-	-	-
23,0 cm/9"	<b>110-120-20</b>	-	-	-	-	-	-
25,0 cm/9¾"	-	-	<b>110-122-25</b>	<b>110-130-25</b>	<b>110-140-25</b>	<b>110-150-25</b>	-
30,0 cm/11¾"	<b>110-120-23</b>	-	-	<b>110-130-30</b>	<b>110-140-30</b>	<b>110-150-30</b>	-
31,0cm/12¼"	-	-	<b>110-122-31</b>	-	-	-	-
35,0 cm/13¾"	<b>110-120-25</b>	-	-	-	-	-	-
40,0 cm/15¾"	<b>110-120-30</b>	-	-	-	-	-	-

# 06

## FORCEPS

### Tissue Forceps

Gewebepinzette

Pinze per tessuti

Pince à tissus

Pinzas de tejido



POTTS SMITH



	1x2 teeth	1x2 teeth
18,0cm/7"	110-126-18	110-127-18
21,0cm/8¼"	110-126-21	110-127-21
25,0cm/9¾"	110-126-25	110-127-25
30 cm/12"	110-126-30	110-127-30
35,0 cm 14"	110-126-35	-
40,0 cm/15¾"	110-126-40	-

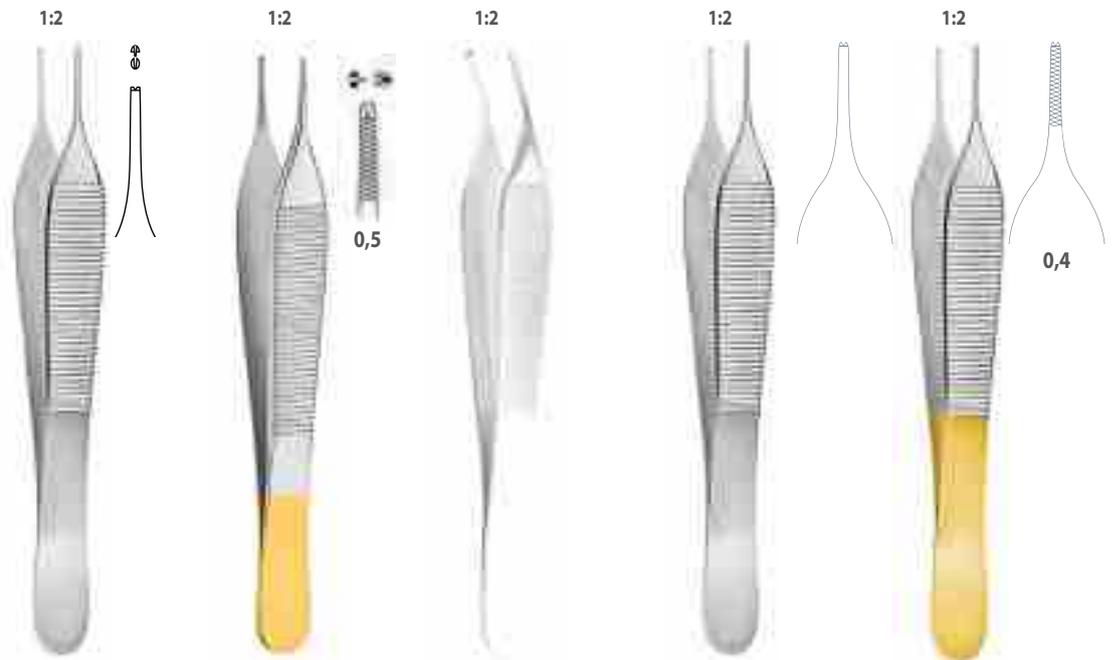
**with TC inserts**

Mit TC-Einsätzen

A mors TC

Con bocas TC

Con morso TC



ADSON	Standard	Tc	angled	ADSON MICRO	ADSON MICRO
10,5 cm/4¼"	110-180-12	110-184-12	110-181-12	110-186-12	110-173-12
15,0 cm/6"	110-180-15	110-184-15	110-181-15	110-186-15	110-173-15
18,0 cm/7"	110-180-18	-	-	110-186-18	-

**cross serrated**  
kreuzgerieft  
mors stries  
boca estriada  
e zigrinata



**ADSON**  
12 cm/4¾"



**1x2 teeth**

**110-192-12**



**1x2 teeth**

**110-194-12**



**1x2 teeth**

**110-195-12**

**delicate**  
fein  
délicates  
finas  
delicate



**JEFFERSON**  
18 cm/7"



**1x2 teeth**

**110-2108-18**

**cross serrated**  
kreuzgerieft  
mors stries  
boca estriada  
e zigrinata

**cross serrated**  
kreuzgerieft  
mors stries  
boca estriada  
e zigrinata



**ADSON**



**1x2 teeth**

12 cm/4¾"

**110-191-12**



**1x2 teeth**

**110-196-12**



**1x2 teeth**

**110-197-12**



**1x2 teeth**

**110-198-12**

15 cm/6"

-

-

-

**110-198-15**

**delicate**  
fein  
délicates  
finas  
delicate

# 06

## FORCEPS

### Tissue Forceps

Gewebepinzette

Pinze per tessuti

Pince à tissus

Pinzas de tejido



**CUSHING**  
17 cm/6¾"



1x2 teeth

110-230-17



1x2 teeth

110-231-17



**SEMKEN**

12,5 cm/5"

110-268-12

14,5 cm/5¾"

110-268-14

delicate  
fein  
délicates  
finas  
delicate



**SEMKEN**



1x2 teeth

12,5 cm/5"

110-270-12



1x2 teeth

110-271-12



2x3 teeth

110-270-13

15 cm/6"

110-270-15

110-271-15

110-270-16



1x2



with TC inserts  
Mit TC-Einsätzen  
A mors TC  
Con bocas TC  
Con morso TC

**GILLIES**  
15,5cm/6"

110-272-15

110-272-16



kreuzgerieft  
cross serrated  
mors stries  
boca estriada  
e zigrinata



15cm/6"	<b>110-282-15</b>
18cm/7"	<b>110-282-18</b>
20cm/8"	<b>110-282-20</b>
25cm/9¾"	<b>110-282-25</b>
30,5cm/12"	<b>110-282-30</b>

delicate  
fein  
délicates  
finas  
delicate

**WAUGH**



1x2



17,5 cm/7"

**110-276-17**

**TAYLOR**



1x2



17,5 cm/7"

**110-279-17**

**with dissector end**  
mit Schaberende  
à rugine  
con rascador  
con estremità a forma di raschino

**TAYLOR**



1x2



17,5 cm/7"

**110-280-17**

**with dissector end**  
mit Schaberende  
à rugine  
con rascador  
con estremità a forma di raschino

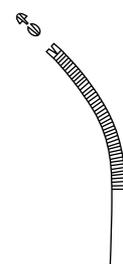
**TAYLOR**



**BROPHY**  
20 cm/8"



**110-290-20**



**110-287-20**

# 06

## FORCEPS

### Tissue Forceps

Gewebepinzette

Pinze per tessuti

Pince à tissus

Pinzas de tejido



GERALD

18 cm/7"

110-310-18

110-311-18

23 cm/9"

110-310-23



GERALD  
17,5 cm/7"

110-306-17

#### with TC inserts

Mit TC-Einsätzen

A mors TC

Con bocas TC

Con morso TC



GERALD  
18cm/7"

110-313-18



DUEHRSSSEN  
20 cm/8"



110-298-20



**Fig. 1**  
12 cm/4¾"

**110-332-01**



**Fig. 3**  
12 cm/4¾"

**110-330-12**



**Fig. 3 C**  
11 cm/4¼"

**110-330-31**

delicate  
fein  
déliçates  
finas  
fina



**Fig. 4**  
11 cm/4¼"

**110-332-04**



**Fig. 5**  
11 cm/4¼"

**110-332-05**



**Fig. 5**  
11 cm/4¼"

**110-332-45**



**Fig. 5a**  
11 cm/4¼"

**110-333-05**



**Fig. 6**  
11 cm/4¼"

**110-332-15**



**Fig. 7**  
12 cm/4¾"

**110-331-12**



11,5 cm/4½"

**110-333-11**

# 06

## FORCEPS

### Micro forceps

Mikro-Pinzetten

Micro pincers

Micro pinzas

Micro pinze



14 cm/5½"

0,2 mm



110-818-14

0,3 mm



110-820-14

### iris forceps



**GRAEFE**  
10 cm/4"

542-810-10



**GRAEFE**  
10 cm/4"

542-811-10



**GRAEFE**  
10 cm/4"

542-813-10



**LUCAE**  
 14 cm/5½"  
 544-206-14



**JANSSEN**  
 16 cm/6¼"  
 544-206-16



**LUCAE (ADSON)**  
 17,5 cm/7"  
 544-206-18



**LUCAE**  
 14 cm/5½"  
 544-206-15



**COTTLE**  
 14 cm/5½"  
 546-581-14

skin seizing forceps



**GRUENWALD**  
 20 cm/8"  
 546-154-20



**JANSSEN**  
 16 cm/6¼"  
 546-154-20



**GRUENWALD**  
 18 cm/7¼"  
 546-158-18



**GRUENWALD**  
 20 cm/8"  
 546-158-19

**07** |

## **Micro Forceps**

Mikro Pinzetten

Micro Pincers

Micro Pinzas

Micro Pinze

**Micro Suture Tying Forceps**

Mikro-Knüpfpinzetten  
 Micro-Pinces pour nouer les fils  
 Micro-Pinzas para enlazar  
 Micro-Pinze per annodare fili

**MICRO FORCEPS**



	0,3 mm	0,3 mm		0,6 mm	0,6 mm
12 cm/4¾"	<b>211-102-12</b>	<b>211-103-12</b>	18 cm/7"	<b>211-108-18</b>	<b>211-109-18</b>
15 cm/6"	<b>211-104-12</b>	<b>211-105-12</b>	23 cm/9"	<b>211-108-23</b>	



	0,3 mm	0,6 mm
12 cm/4¾"	<b>211-110-15</b>	<b>211-111-15</b>
15 cm/6"	<b>211-110-18</b>	<b>211-111-18</b>

**Light-weight round handles, well balanced**

Leichtmetall Rundgriffe, gut ausbalanciert  
 Manches ronds en métal léger, bien équilibrés  
 Mangos redondos de metal ligero, bien equilibrados  
 Manici rotondi metallo leggero, equilibrio perfetto

## MICRO FORCEPS



**LAZAR**  
 15,5 cm/6"



0,5 mm

**211-126-15**



0,8 mm

**211-127-15**



16 cm/6¼"



0,5 mm

**211-128-18**



**AUSTIN**  
 14 cm/5½"



0,8 mm

**211-134-14**



12 cm/4¾"



0,3 mm

**211-132-12**



**VISE**  
 13,5 cm/5¼"



0,3 mm

**211-130-13**



0,3 mm

**211-131-13**



**GOMEL**  
18 cm/7"



1x2

211-138-18

211-136-18



	0,2 mm	0,3 mm	0,2 mm	0,3 mm
15 cm/6"	<b>211-218-15</b>	<b>211-220-15</b>	<b>211-219-15</b>	<b>211-221-15</b>
18 cm/7"	<b>211-218-18</b>	<b>211-220-18</b>	<b>211-219-18</b>	<b>211-221-18</b>

**sharp**  
spitz  
pointue  
aguda  
acuta

**blunt**  
stumpf  
mousse  
roma  
smussa

**sharp**  
spitz  
pointue  
aguda  
acuta

**blunt**  
stumpf  
mousse  
roma  
smussa

**Light-weight round handles, well balanced**

Leichtmetall Rundgriffe, gut ausbalanciert  
 Manches ronds en métal léger, bien équilibrés  
 Mangos redondos de metal ligero, bien equilibrados  
 Manici rotondi metallo leggero, equilibrio perfetto

## MICRO FORCEPS

- sophisticated design
- ergonomic handle
- safe and fine feeling in hand, well-balanced
- easy to clean
- no dirt catching knurlings

- ansprechendes Design
- ergonomischer Griff
- sichere und feinfühlig Handhabung
- leichtes Reinigen
- keine schmutzanfälligen Riefelungen

- aspect attrayant
- poignée ergonomique
- une manipulation délicate et en sécurité
- la précision du geste opératoire
- un nettoyage facile
- striure pas sensible à la saleté

- diseño llamativo
- mango ergonómico
- manipulación segura y delicada
- limpieza fácil
- las estriadas no son susceptibles a la suciedad

- design appariscente
- manico ergonomico
- maneggio sicuro e delicato
- purificazione facile
- non incline de la sporcizia



TOLEDO

**ATRAUMA**



**DE BAKEY**

	1,0 mm	1,0 mm
18 cm/7"	<b>211-230-18</b>	<b>211-231-18</b>
21 cm/8¼"	<b>211-230-21</b>	<b>211-231-21</b>

	1 x 2	1 x 2
18 cm/7"	<b>211-232-18</b>	<b>211-233-18</b>
21 cm/8¼"	<b>211-232-21</b>	<b>211-233-21</b>

**diamond coated jaws**

diamantiertes Maul  
mors diamanté  
boca diamantada  
morso diamantato

18 cm/7"	<b>211-234-18</b>	<b>211-235-18</b>	<b>211-244-18</b>	<b>211-245-18</b>
21 cm/8¼"	<b>211-234-21</b>	<b>211-235-21</b>	<b>211-244-21</b>	<b>211-245-21</b>

**diamond coated jaws**

diamantiertes Maul  
mors diamanté  
boca diamantada  
morso diamantato

	Ø 1 x 0,5 mm	Ø 1 x 0,5 mm
18 cm/7"	<b>211-238-18</b>	<b>211-248-18</b>
21 cm/8¼"	<b>211-238-21</b>	<b>211-248-21</b>

**Titanium**

Titan  
 Titane  
 Titanio  
 Titanio

**ATRAUMA**



**DE BAKEY**



**DE BAKEY**



	1,0 mm	1,5 mm	1,8 mm	2,0 mm	2,8 mm
15 cm/6"	<b>211-290-15</b>	<b>211-300-16</b>	<b>211-302-16</b>	<b>211-292-15</b>	<b>211-298-15</b>
20 cm/8"	<b>211-290-20</b>	<b>211-300-20</b>	<b>211-302-20</b>	<b>211-292-20</b>	<b>211-298-20</b>
24 cm/9½"	<b>211-290-24</b>	<b>211-300-24</b>	<b>211-302-24</b>	<b>211-292-24</b>	<b>211-298-24</b>

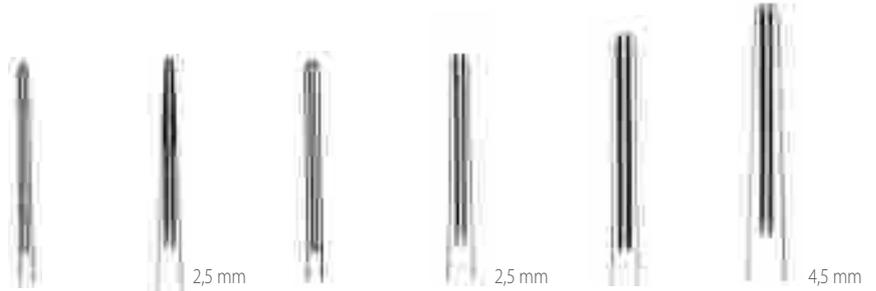
**ATRAUMA**



**DE BAKEY**



**DE BAKEY**



	1,5 mm	1,5 mm	2,0 mm	2,0 mm	2,7 mm	3,5 mm
15 cm/6"	-	-	<b>211-324-15</b>	-	-	-
16 cm/6¼"	-	<b>211-306-16</b>	-	<b>211-308-16</b>	<b>211-304-16</b>	<b>211-310-16</b>
19,5 cm/7¾"	<b>211-322-20</b>	-	<b>211-324-20</b>	-	-	-
20 cm/8"	-	<b>211-306-20</b>	-	<b>211-308-20</b>	<b>211-304-20</b>	<b>211-310-20</b>
24 cm/9½"	<b>211-322-24</b>	<b>211-306-24</b>	<b>211-324-24</b>	<b>211-308-24</b>	<b>211-304-24</b>	<b>211-310-24</b>
30 cm/12"	<b>211-322-30</b>	<b>211-306-30</b>	<b>211-324-30</b>	<b>211-308-30</b>	<b>211-304-30</b>	<b>211-310-30</b>
35 cm/14"	-	-	-	-	-	<b>211-310-35</b>
40 cm/16"	-	-	-	-	-	<b>211-310-40</b>



	2,7 mm	3,5 mm
15 cm/6"	<b>211-332-15</b>	<b>211-334-15</b>
19,5 cm/7¾"	<b>211-332-20</b>	<b>211-334-20</b>
24 cm/9½"	<b>211-332-24</b>	<b>211-334-24</b>
30 cm/12"	<b>211-332-30</b>	<b>211-334-30</b>
35 cm/14"	-	<b>211-334-35</b>


**ATRAUMA**

**DE BAKEY**


2,5 mm

2,0 mm

16 cm/6¼"	<b>211-309-16</b>
20 cm/8"	<b>211-309-20</b>
24 cm/9½"	<b>211-309-24</b>
30 cm/12"	<b>211-309-30</b>



2,7 mm

15 cm/6"	<b>211-333-15</b>
19,5 cm/7¾"	<b>211-333-20</b>
24 cm/9½"	<b>211-333-24</b>
30 cm/12"	<b>211-333-30</b>

**DE BAKEY**


2,0 mm

**ATRAUMA**

**COOLEY**

16 cm/6¼"	<b>211-314-16</b>
20 cm/8"	<b>211-314-20</b>
24 cm/9½"	<b>211-314-24</b>

**COOLEY**

**DE BAKEY**
**ATRAUMA**

**DE BAKEY**

1,0 mm

15 cm/6"	<b>211-315-15</b>
19,5 cm/7¾"	<b>211-315-19</b>
24 cm/9½"	<b>211-315-24</b>



1,5 mm

**ATRAUMA**

**DE BAKEY**

**DE BAKEY-DIETHRICH**

15 cm/6"	<b>211-316-16</b>
19,5 cm/7¾"	<b>211-316-19</b>
24 cm/9½"	<b>211-316-24</b>

# 07

## MICRO FORCEPS

### Atraumatic Tissue Forceps

Atraumatische Pinzetten

Pinces atraumatiques

Pinzas atraumáticas

Pinze atraumatiche



**ATRAUMA**



**DE BAKEY**



**DE BAKEY-ADSON**

12 cm/4¾"	<b>211-318-12</b>
15 cm/6"	<b>211-318-15</b>

1,0 mm

**ATRAUMA**



**DE BAKEY**



**DE BAKEY-GERALD**

15 cm/6"	<b>211-430-15</b>
18 cm/7"	<b>211-430-18</b>

**ATRAUMA**



**DE BAKEY**



**DE BAKEY-WHEELER**

15 cm/6"	<b>211-452-15</b>
19,5 cm/7¾"	<b>211-456-20</b>
24 cm/9½"	<b>211-456-24</b>

**ATRAUMA**



**COOLEY**



**4 mm**  
15 cm/6"

**211-462-15**

**8 mm**  
24 cm/9½"

**211-462-24**



**GLASSMAN**

**ATRAUMA**

**DE BAKEY**

**DE BAKEY**
**TC Lined**

 Mit TC-Einsätzen  
 A mors TC  
 Con bocas TC  
 Con morso TC


<b>6 x 12</b>	1,5 mm	2,0 mm	2,7 mm	3,5 mm
15 cm/6"	<b>211-404-15</b>	<b>211-412-15</b>	<b>211-414-15</b>	<b>211-416-15</b>
19,5 cm/7¾"	<b>211-404-19</b>	<b>211-412-19</b>	<b>211-414-19</b>	<b>211-416-19</b>
24 cm/9½"	<b>211-404-24</b>	<b>211-412-24</b>	<b>211-414-24</b>	<b>211-416-24</b>



<b>2 x 4</b>	1,5 mm	2,0 mm	2,7 mm	3,5 mm
15 cm/6"	<b>211-402-15</b>	<b>211-422-15</b>	<b>211-424-15</b>	<b>211-426-15</b>
19,5 cm/7¾"	<b>211-402-20</b>	<b>211-422-19</b>	<b>211-424-19</b>	<b>211-426-19</b>
24 cm/9½"	<b>211-402-24</b>	<b>211-422-24</b>	<b>211-424-24</b>	<b>211-426-24</b>

# 07

## Micro-Forceps

Mikro-Pinzetten

Micro-Pinces

Micro-Pinzas

Micro-Pinze



## MICRO FORCEPS



ULTRA-LIGHT



**1,2 mm**  
15 cm/6"

**211-428-15**



**1,5 mm**  
20 cm/8"

**211-428-20**



**1,5 mm**  
24 cm/9½"

**211-428-24**



**1,5 mm**  
30 cm/12"

**211-428-30**

**extremely light**  
extrem leicht  
extrêmement légère  
especialmente ligero  
estremamente leggera



**0,3 mm**  
18,5 cm/7¼"

**211-504-01**



**0,6 mm**  
18,5 cm/7¼"

**211-504-02**



**0,6 mm**  
18,5 cm/7¼"

**211-504-03**

**Ligature Forceps**  
 Ligaturpinzetten  
 Pincès à ligatures  
 Pinzas para ligaduras  
 Pinze per legatura



18,5 cm/7¼"

**211-505-19**



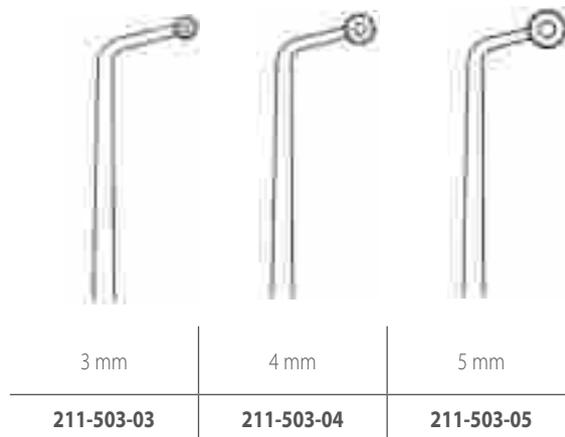
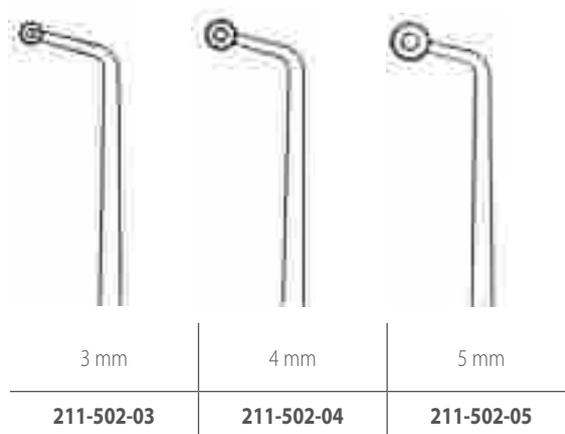
**YASARGIL**



	0,6 mm	0,9 mm	1 x 2
16 cm/6¼"	<b>211-506-16</b>	<b>211-509-16</b>	
18 cm/7"	<b>211-506-18</b>	<b>211-509-18</b>	<b>211-510-18</b>
20 cm/8"	<b>211-506-20</b>	<b>211-509-20</b>	
22 cm/8¾"	<b>211-506-22</b>	<b>211-509-22</b>	
24 cm/9½"	<b>211-506-24</b>	<b>211-509-24</b>	



**SAMII**  
23 cm/9"



**Jaws spoon-shaped**  
 Maul löffelförmig  
 Mors en forme de cuillère  
 Boca en forma de cuchara  
 Morso a forma di cucchiaino



**YASARGIL**

			
	Ø 3 mm	Ø 5 mm	Ø 7 mm
22 cm/8¾"	<b>211-513-22</b>	<b>211-515-22</b>	
24 cm/9½"	<b>211-513-24</b>	<b>211-515-24</b>	<b>211-517-24</b>

		
	Ø 3 mm	Ø 5 mm
22 cm/8¾"	<b>211-521-22</b>	<b>211-523-22</b>

		
	Ø 3 mm	Ø 5 mm
<b>HEIFETZ</b>		
22 cm/8¾"	<b>211-522-22</b>	<b>211-525-22</b>



**HEIFETZ**  
22 cm/8¾"



Ø 3 mm

**211-524-22**



Ø 5 mm

**211-527-22**



**HUNT**  
20 cm/8"



Ø 5 mm

**211-529-20**



**YASARGIL**  
20 cm/8"

**211-523-20**



**HUNT**  
20 cm/8"

**211-531-20**



22 cm/8¾"



3 mm

5 mm

**211-533-22**

**211-535-22**

**diamond coated jaws**  
diamantiertes Maul  
mors diamanté  
boca diamantada  
morso diamantato



#### Titanium

Titan  
Titane  
Titanio  
Titanio



	6 x 0,4 mm	6 x 0,4 mm	6 x 0,7 mm	6 x 0,7 mm
15 cm/6"	<b>110-564-15</b>	<b>110-565-15</b>	<b>110-566-15</b>	<b>110-567-15</b>
15 cm/6"	<b>211-578-15</b>	<b>211-579-15</b>	<b>211-580-15</b>	<b>211-581-15</b>
18 cm/7"	<b>110-564-18</b>	<b>110-565-18</b>	<b>110-566-18</b>	<b>110-567-18</b>
18 cm/7"	<b>211-578-18</b>	<b>211-579-18</b>	<b>211-580-18</b>	<b>211-581-18</b>
21 cm/8¼"			<b>110-566-21</b>	<b>110-567-21</b>
21 cm/8¼"			<b>211-580-21</b>	<b>211-581-21</b>
23 cm/9"			<b>110-566-23</b>	<b>110-567-23</b>



	6 x 0,4 mm 1 x 2	6 x 0,4 mm 1 x 2	6 x 0,7 mm 1 x 2	6 x 0,7 mm 1 x 2
15 cm/6"	<b>110-568-15</b>	<b>110-569-15</b>	<b>110-570-15</b>	<b>110-571-15</b>
15 cm/6"	<b>211-582-15</b>	<b>211-583-15</b>	<b>211-584-15</b>	<b>211-585-15</b>
18 cm/7"	<b>110-568-18</b>	<b>110-569-18</b>	<b>110-570-18</b>	<b>110-571-18</b>
18 cm/7"	<b>211-582-18</b>	<b>211-583-18</b>	<b>211-584-18</b>	<b>211-585-18</b>
21 cm/8¼"			<b>110-570-21</b>	<b>110-571-21</b>
21 cm/8¼"			<b>211-584-21</b>	<b>211-585-21</b>
23 cm/9"			<b>110-570-23</b>	<b>110-571-23</b>



#### ATRAUMA



#### DE BAKEY

	Ø 1 x 0,5 mm	Ø 2 x 1,0 mm	1,2 mm
15 cm/6"	<b>110-574-15</b>	<b>110-576-15</b>	<b>110-589-15</b>
15 cm/6"	<b>211-586-15</b>	<b>211-588-15</b>	<b>211-590-15</b>
18 cm/7"	<b>110-574-18</b>	<b>110-576-18</b>	<b>110-589-18</b>
18 cm/7"	<b>211-586-18</b>	<b>211-588-18</b>	<b>211-590-18</b>
21 cm/8¼"	<b>110-574-21</b>	<b>110-576-21</b>	<b>110-589-21</b>
21 cm/8¼"	<b>211-586-21</b>	<b>211-588-21</b>	<b>211-590-21</b>
23 cm/9"	<b>110-574-23</b>	<b>110-576-23</b>	

## **Hemostatic Forceps**

Arterienklemmen

Pinces hémostatiques

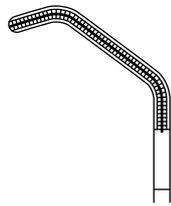
Pinzas hemostáticas

Pinze emostatiche

## HEMOSTATIC FORCEPS

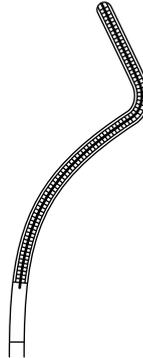


**DE BAKY**



**DE BAKY-SATINSKY**  
7 cm/2¾"

212-059-07



**DE BAKY-CAROTIS**  
9 cm/3½"

212-061-09



**DE BAKY-SATINSKY**  
10 cm/4"

212-063-10



**GLOVER**  
5,5 cm/2¼", 35 mm

212-065-06



**GLOVER**  
3,5 cm/1½"

212-070-35



**GLOVER**  
3,5 cm/1½"

212-071-35



**GLOVER**  
4,5 cm/1¾"

212-070-45



**GLOVER**  
4,5 cm/1¾"

212-071-45



**GLOVER**  
5 cm/2"

212-070-50

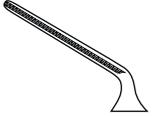


**GLOVER**  
5 cm/2"

212-071-50


**ATRAUMA**

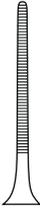
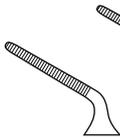
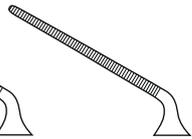
**DE BAKEY**
**DE BAKEY-DITRICH**

						
	<b>212-078-10</b>	<b>212-078-14</b>	<b>212-078-20</b>	<b>212-079-10</b>	<b>212-079-14</b>	<b>212-079-20</b>
<b>Length</b> Länge Longueur Longitud Lunghezza	5 cm/2"	5 cm/2"	6 cm/2½"	5 cm/2"	5 cm/2"	6 cm/2½"
<b>Jaw length</b> Maullänge Longueur des mors Longitud de la boca Lunghezza del morso	10 mm	14 mm	20 mm	10 mm	14 mm	20 mm
<b>Weight</b> Gewicht Poids Peso Peso	3 gr.	3 gr.	3 gr.	3 gr.	3 gr.	3 gr.
<b>Closing pressure</b> Schließdruck Pression d'occlusion Presión de cierre Pression di chiusura	180 gr.	180 gr.	180 gr.	180 gr.	180 gr.	180 gr.

**ATRAUMA**

**DE BAKEY**

**DIETRICH**

						
	<b>212-082-08</b>	<b>212-082-12</b>	<b>212-082-20</b>	<b>212-083-08</b>	<b>212-083-12</b>	<b>212-083-20</b>
<b>Length</b> Länge Longueur Longitud Lunghezza	5 cm/2"	5 cm/2"	6 cm/2½"	5 cm/2"	5 cm/2"	6 cm/2½"
<b>Jaw length</b> Maullänge Longueur des mors Longitud de la boca Lunghezza del morso	8 mm	12 mm	20 mm	8 mm	12 mm	20 mm
<b>Weight</b> Gewicht Poids Peso Peso	3 gr.	3 gr.	3 gr.	3 gr.	3 gr.	3 gr.
<b>Closing pressure</b> Schließdruck Pression d'occlusion Presión de cierre Pression di chiusura	50 gr.	50 gr.	50 gr.	50 gr.	50 gr.	50 gr.

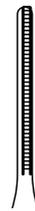
**ATRAUMA**



**DE BAKEY**



**DE BAKEY**



7,5 cm/3"

**212-092-07**



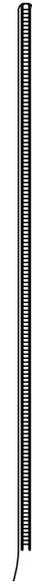
8,5 cm/3½"

**212-092-08**



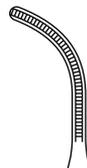
10,5 cm/4¼"

**212-092-10**



12 cm/4¾"

**212-092-12**



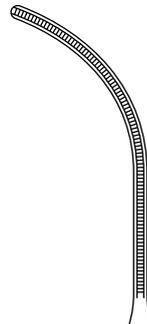
7 cm/2¾"

**212-093-07**



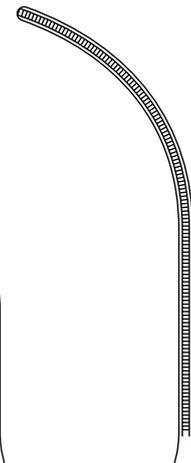
8 cm/3¼"

**212-093-08**



10,5 cm/4¼"

**212-093-10**



11,5 cm/4¾"

**212-093-12**



**DIEFFENBACH**

3,5 cm/1½"	<b>212-102-04</b>	<b>212-103-04</b>
5 cm/2"	<b>212-102-05</b>	<b>212-103-05</b>



**DIEFFENBACH**

5,8 cm/2¼"	<b>212-104-06</b>	<b>212-105-06</b>
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**JOHN-HOPKINS**

5 cm/2"	<b>212-110-50</b>	<b>212-111-50</b>
5,5 cm/2¼"	<b>212-110-55</b>	<b>212-111-55</b>
6,5 cm/2½"	<b>212-110-60</b>	<b>212-111-60</b>
7 cm/2¾"	<b>212-110-65</b>	<b>212-111-65</b>
7,5 cm/3"	<b>212-110-75</b>	<b>212-111-75</b>
9 cm/3½"	<b>212-110-90</b>	<b>212-111-90</b>



20 mm

**Jaw length**

Maullänge  
Longueur des mors  
Longitud de la boca  
Lunghezza del morso

**212-112-20**



30 mm

**212-112-30**



23 cm/8¼"

**212-091-23**



**Applying and removing forceps for Bulldog clamps**

Anlege- und Entfernungszange für Bulldogklemmen  
Pince pour poser et retirer les clamps Bulldog  
Pinza para poner y quitar clamps Bulldog  
Pinza per applicare e rimuovere clamps

### HEMOSTATIC FORCEPS



**soft closing pressure, for veins**  
schwache Schließkraft, für Venen  
force de fermeture faible, pour veines  
fuerza de cierre pequeña, para venas  
forza di chiusura debole, per vene



**starke Schließkraft, für Arterien**  
strong closing pressure, for arteries  
force de fermeture forte, pour artères  
fuerza de cierre grande, para arterias  
forza di chiusura forte, per arterie

**Titanium**

- Titan
- Titane
- Titano
- Titania

	3 cm	3,5 cm	4 cm	5 cm
Vena	<a href="#">212-132-30</a>	<a href="#">212-132-35</a>	<a href="#">212-132-40</a>	<a href="#">212-132-50</a>
Artria	<a href="#">212-142-30</a>	<a href="#">212-142-35</a>	<a href="#">212-142-40</a>	<a href="#">212-142-50</a>



	3 cm	3,5 cm	4 cm	5 cm
Vena	<a href="#">212-133-30</a>	<a href="#">212-133-35</a>	<a href="#">212-133-40</a>	<a href="#">212-133-50</a>
Artria	<a href="#">212-143-30</a>	<a href="#">212-143-35</a>	<a href="#">212-143-40</a>	<a href="#">212-143-50</a>

	3 cm	3,5 cm	4 cm	5 cm
Vena	<a href="#">212-135-30</a>	<a href="#">212-135-35</a>	<a href="#">212-135-40</a>	<a href="#">212-135-50</a>
Artria	<a href="#">212-145-30</a>	<a href="#">212-145-35</a>	<a href="#">212-145-40</a>	<a href="#">212-145-50</a>



**TERRIER**  
8,5 cm/3¼"

**212-206-08**

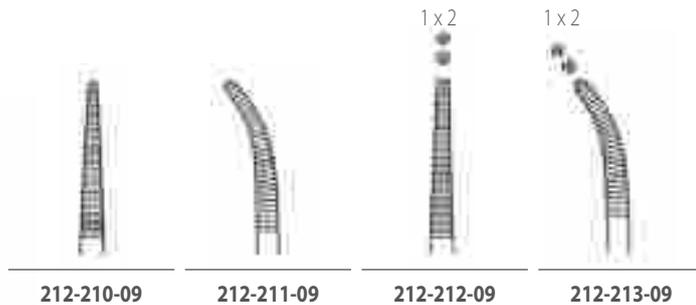


**CARREL**  
8,5 cm/3¼"

**212-208-08**



**HARTMANN**  
10 cm/4"



**212-210-09**

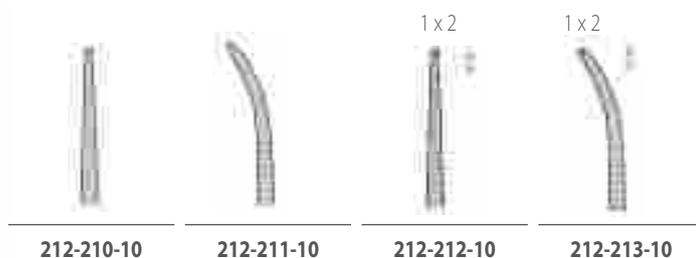
**212-211-09**

**212-212-09**

**212-213-09**



**HARTMANN MICRO**  
10 cm/4"



**212-210-10**

**212-211-10**

**212-212-10**

**212-213-10**

**Titanium**  
Titan  
Titane  
Titanio  
Titanio

## HEMOSTATIC FORCEPS



**HALSTED-MOSQUITO**

	straight	curved
12,5 cm/5"	<b>212-220-12</b>	<b>212-221-12</b>
12,5 cm/5"	<b>212-224-12</b>	<b>212-225-12</b>
14,5 cm/5¾"	<b>212-220-14</b>	<b>212-221-14</b>

1 x 2



1 x 2



	straight	curved
12,5 cm/5"	<b>212-230-12</b>	<b>212-231-12</b>
12,5 cm/5"	<b>212-234-12</b>	<b>212-235-12</b>
14,5 cm/5¾"	<b>212-230-14</b>	<b>212-231-14</b>



**HALSTED-MOSQUITO MICRO**

	straight	curved
10 cm/4"	<b>212-222-10</b>	<b>212-223-10</b>
12 cm/4¾"	<b>212-222-12</b>	<b>212-223-12</b>

1 x 2



1 x 2



	straight	curved
10 cm/4"	<b>212-232-10</b>	<b>212-233-10</b>
12 cm/4¾"	<b>212-232-12</b>	<b>212-233-12</b>

**Titanium**

Titan  
 Titane  
 Titanio  
 Titanio



**KELLY**  
 14 cm/5½"



straight

212-240-14

212-244-14



curved

212-241-14

212-245-14



**KELLY-RANKIN**  
 16 cm/6¼"



straight

212-242-16



curved

212-243-16



**CRILE**  
 14 cm/5½"



straight

212-250-14

212-254-14



curved

212-251-14

212-255-14

1 x 2



straight

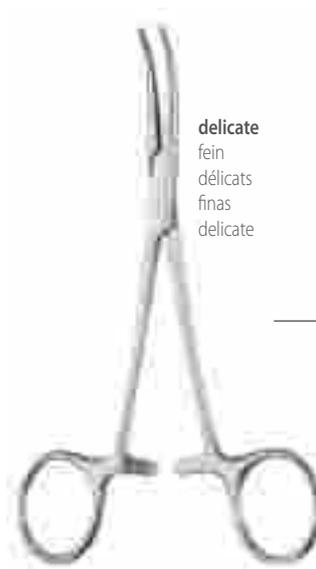
212-260-14

1 x 2



curved

212-264-14



**CRILE**  
 14 cm/5½"

delicate  
 fein  
 délicats  
 finas  
 delicate



straight

212-252-14



curved

212-253-14

### HEMOSTATIC FORCEPS



**CRILE-RANKIN**  
16 cm/6¼"



straight

212-262-16



curved

212-263-16

1x2



straight

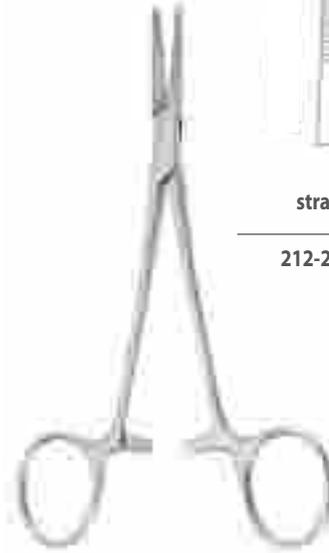
212-264-16

1x2



curved

212-265-16



**PROVIDENCE-HOSPITAL**  
14 cm/5½"



straight

212-270-14



curved

212-271-14



**CAIRNS**  
15 cm/6"



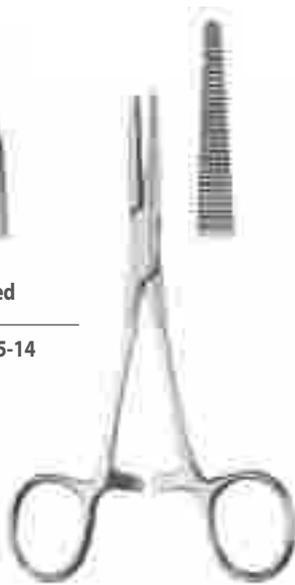
straight

212-274-14



curved

212-275-14



**DUNHILL**  
12,5 cm/5"

straight

212-276-13

curved

212-277-13



delicate  
fein  
déliçats  
finas  
delicate

**CUSHING**  
14,5 cm/5¾"



straight

212-286-14



curved

212-285-14



laterally curved

212-287-14

laterally curved  
seitlich gebogen  
courbe lateralement  
curva lateralmente  
curva laterale

**Scalp Forceps**

Kopfhautklemmen  
 Pincès pour cuir chevelu  
 Pinzas para el cuero cabelludo  
 Pinze per cuoio capelluto

**HEMOSTATIC FORCEPS**



**MOYNIHAN**  
15 cm/6"

straight

212-278-14

curved

212-279-14



**MOYNIHAN**  
15 cm/6"

212-279-15

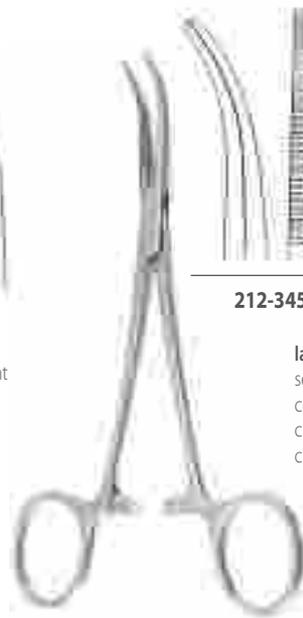
laterally curved  
 seitlich gebogen  
 courbe lateralement  
 curva lateralmente  
 curva laterale



**DANDY**  
12 cm/4¾"

212-344-12

laterally curved  
 seitlich gebogen  
 courbe lateralement  
 curva lateralmente  
 curva laterale



**DANDY**  
14,5 cm/5¾"

laterally curved  
 seitlich gebogen  
 courbe lateralement  
 curva lateralmente  
 curva laterale

212-345-14

212-347-14



**LOVELACE**  
16 cm/6¼"

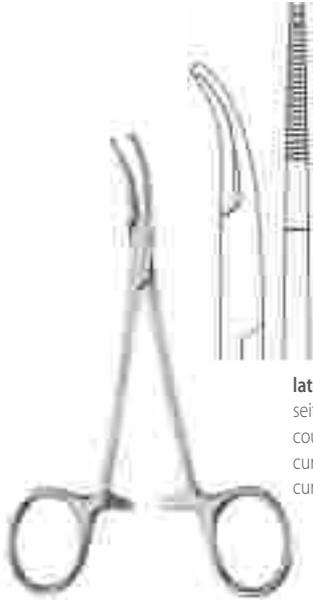


212-354-15



212-356-15

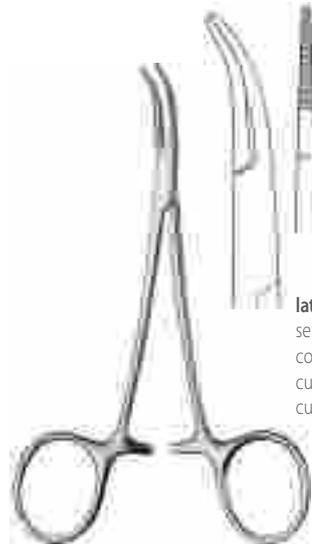
## HEMOSTATIC FORCEPS



**laterally curved**  
 seitlich gebogen  
 courbe lateralement  
 curva lateralmente  
 curva laterale

**RAIMONDI**  
 12,5 cm/5"

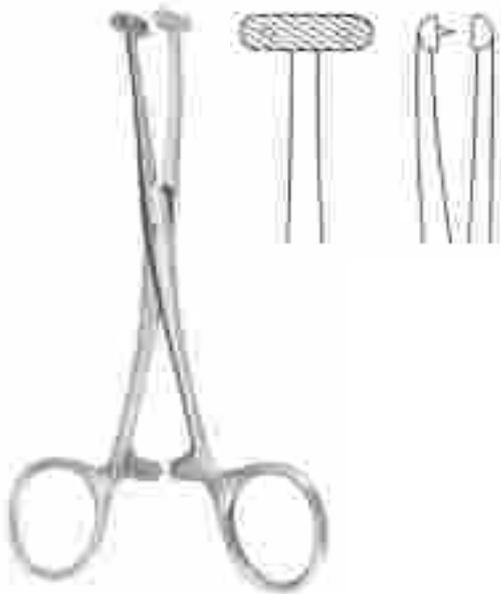
**212-346-13**



**laterally curved**  
 seitlich gebogen  
 courbe lateralement  
 curva lateralmente  
 curva laterale

**HOEN**  
 13,5 cm/5¼"

**212-348-14**



**MARTEL**  
 14 cm/5½"

**212-364-14**



**WILLET-MARTEL**  
 19 cm/7½"

**212-366-19**



**LERICHE**  
15 cm/6"



**straight**

**212-380-15**



**curved**

**212-381-15**

1 x 2



**straight**

**212-382-15**

1 x 2



**curved**

**212-383-15**



**ADSON BABY**



14 cm/5½"

**212-415-14**



18 cm/7"

**212-415-18**



**JACOBSON**  
12,5 cm/5"



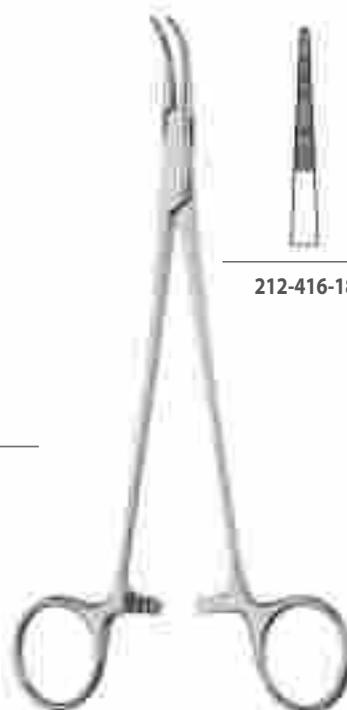
**straight**

**212-416-12**



**curved**

**212-417-12**



**JACOBSON**  
18 cm/7"



**212-416-18**



**212-417-18**



**212-419-18**

## HEMOSTATIC FORCEPS



**GEMINI**



13 cm/5"	<b>212-431-13</b>
14 cm/5½"	<b>212-431-14</b>
16 cm/6¼"	<b>212-431-16</b>
18 cm/7"	<b>212-431-18</b>
20 cm/8"	<b>212-431-20</b>
23 cm/9"	<b>212-431-23</b>
25 cm/10"	<b>212-431-25</b>
28 cm/11"	<b>212-431-28</b>



**GEMINI MINI**



18 cm/7"	<b>212-433-18</b>
22 cm/8¾"	<b>212-433-22</b>
25 cm/10"	<b>212-433-25</b>
28 cm/11"	<b>212-433-28</b>

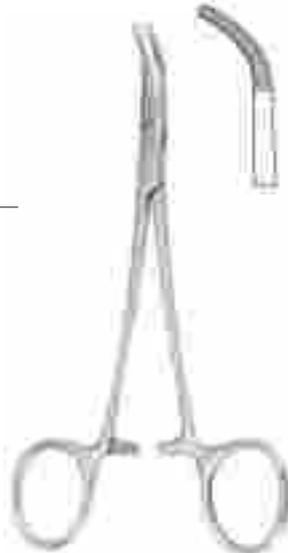


**BABY MIXTER**  
14 cm/5½"

212-468-14



212-469-14



**MIXTER BABY**  
14 cm/5½"

212-475-14



**MIXTER BABY**  
18 cm/7"

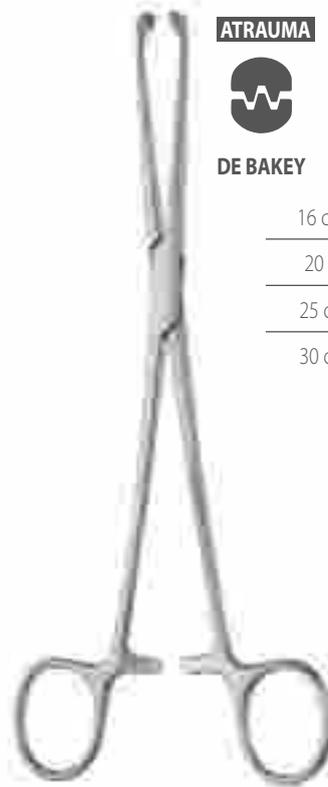
212-475-18



**ALLIS**



	4 x 5 teeth	5 x 6 teeth
15 cm/6"	<b>764-110-15</b>	<b>764-120-15</b>
19 cm/7½"	<b>764-110-19</b>	<b>764-120-19</b>
22 cm/8¾"		<b>764-120-22</b>
24 cm/9½"		<b>764-120-24</b>
25 cm/10"	<b>764-110-25</b>	
30 cm/12"		<b>764-120-30</b>



**ALLIS-ATRAUMA**

**ATRAUMA**



**DE BAKEY**

16 cm/6¼"	<b>764-124-16</b>
20 cm/8"	<b>764-124-20</b>
25 cm/10"	<b>764-124-25</b>
30 cm/12"	<b>764-124-30</b>

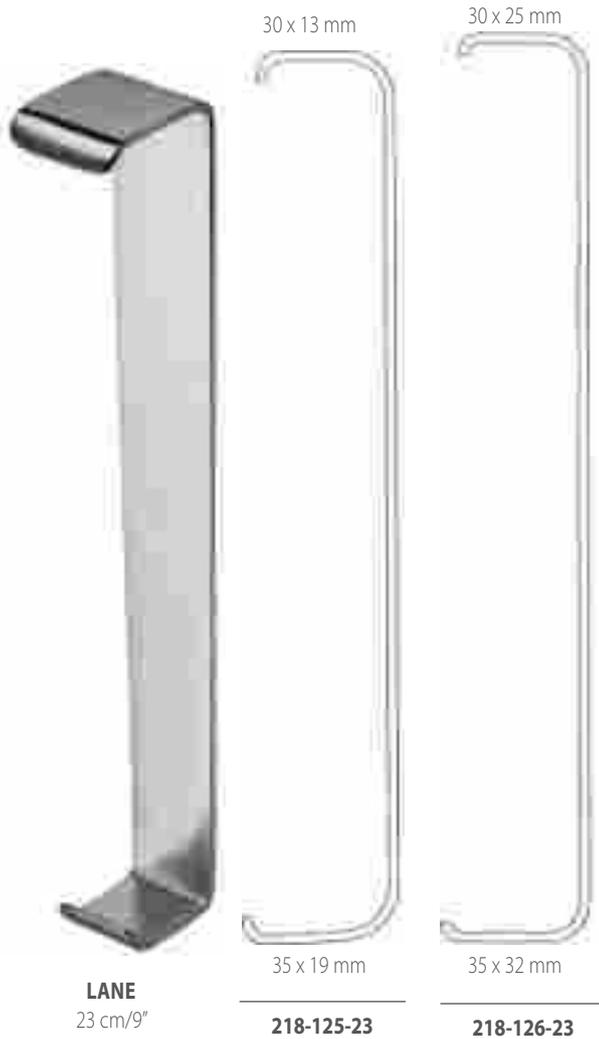
## **Retractors**

Wundhaken

Ecarteurs

Separadores

Divaricatori



18 mm	<b>218-165-18</b>
20 mm	<b>218-165-20</b>
23 mm	<b>218-165-23</b>





**Decompression hook**  
 Dekompressionshaken  
 Ecarteur décompresseur  
 Gancho para decompresión  
 Ganico per decompressione

**CUSHING**  
 20 cm/8"

**218-234-20**



**OLDBERG**



19 mm

**218-235-00**



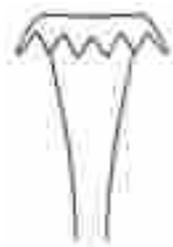
13 mm

**218-235-03**



15 mm

**218-235-04**



19 mm

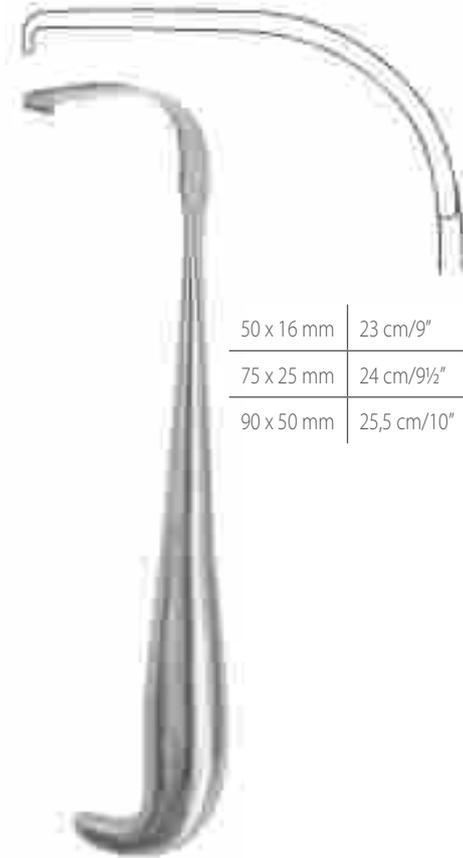
**218-235-06**



**KOCHER-LANGENBECK**  
22 cm/8½"



25x6 mm	<b>218-342-01</b>
25 x 8 mm	<b>218-342-02</b>
35x8 mm	<b>218-342-03</b>
35x11 mm	<b>218-342-04</b>
35x15 mm	<b>218-342-05</b>
40x11 mm	<b>218-342-06</b>
55x11 mm	<b>218-342-07</b>
70x14 mm	<b>218-342-08</b>
80x12 mm	<b>218-342-09</b>
80x16 mm	<b>218-342-10</b>

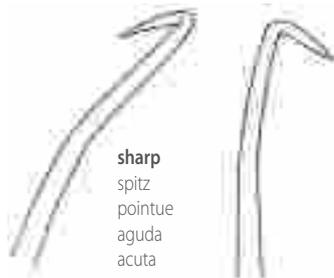


**MEYERDING**

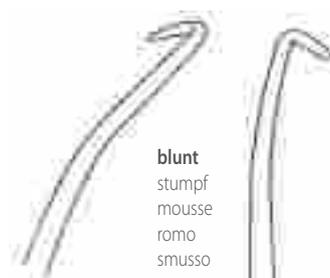
50 x 16 mm	23 cm/9"	<b>218-498-01</b>
75 x 25 mm	24 cm/9½"	<b>218-498-02</b>
90 x 50 mm	25,5 cm/10"	<b>218-498-03</b>



**GELPI**



**sharp**  
spitz  
pointue  
aguda  
acuta



**blunt**  
stumpf  
mousse  
romo  
smusso

9 cm/3½"	<b>218-802-09</b>
11 cm/4¼"	<b>218-802-11</b>
14 cm/5½"	<b>218-802-14</b>
16 cm/6¼"	<b>218-802-16</b>
18 cm/7"	<b>218-802-18</b>

18 cm/7"	<b>218-803-18</b>
----------	-------------------



**FINSEN**



**218-610-05**

**sharp**  
spitz  
pointue  
aguda  
acuta



**218-611-05**

**blunt**  
stumpf  
mousse  
romo  
smusso



**218-610-07**

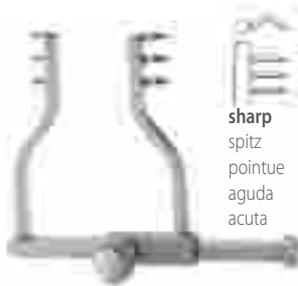
**sharp**  
spitz  
pointue  
aguda  
acuta



**218-611-07**

**blunt**  
stumpf  
mousse  
romo  
smusso

**with adjusting screw**  
mit Stellschraube  
avec vis d'ajustage  
con tornillo de ajuste  
con vite di arresto



**LOGAN**  
4 cm/1½"

**218-612-04**

**sharp**  
spitz  
pointue  
aguda  
acuta

**with adjusting screw**  
mit Stellschraube  
avec vis d'ajustage  
con tornillo de ajuste  
con vite di arresto



**FINSEN**  
7 cm/2¾"



**218-613-07**

**sharp**  
spitz  
pointue  
aguda  
acuta



**218-614-07**

**blunt**  
stumpf  
mousse  
romo  
smusso



**ALM**



**218-620-07**

**sharp**  
spitz  
pointue  
aguda  
acuta



**218-620-10**

**sharp**  
spitz  
pointue  
aguda  
acuta



**218-621-07**

**blunt**  
stumpf  
mousse  
romo  
smusso



**218-621-10**

**blunt**  
stumpf  
mousse  
romo  
smusso

3 x 3



**218-628-10**

**sharp**  
 spitz  
 pointue  
 aguda  
 acuta

**JANSEN-GIFFORD**  
 10 cm/4"

3 x 3



**218-629-10**

**blunt**  
 stumpf  
 mousse  
 romo  
 smusso

**JANSEN**  
 10 cm/4"



**218-630-10**

**sharp**  
 spitz  
 pointue  
 aguda  
 acuta



**218-631-10**

**blunt**  
 stumpf  
 mousse  
 romo  
 smusso



**JANSEN-WAGNER**  
 11 cm/4¼"

**218-632-11**

4 x 4



**218-636-10**

**sharp**  
 spitz  
 pointue  
 aguda  
 acuta

**JANSEN**  
 10,5 cm/4¼"

**218-637-10**

**blunt**  
 stumpf  
 mousse  
 romo  
 smusso

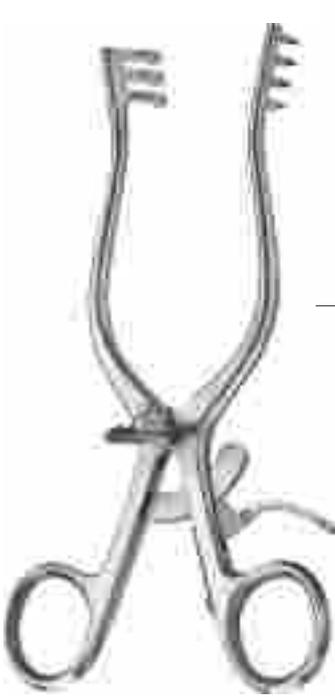
4 x 4  
 6 mm



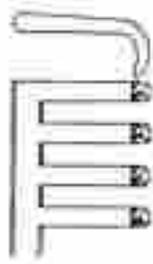
**218-634-10**

**sharp**  
 spitz  
 pointue  
 aguda  
 acuta

**LOGAN**  
 4 cm/1½"



**HENLEY**  
16,5 cm/6½"



3 x 4

**218-660-16**

**blunt**  
stumpf  
mousse  
romo  
smusso



3 x 4

**218-661-16**

**sharp**  
spitz  
pointue  
aguda  
acuta

with Central Blades 218-661-17 - 218-661-19  
mit Mittelvalven 218-661-17 - 218-661-19  
avec lames centrales 218-661-17 - 218-661-19  
con valvas centrales 218-661-17 - 218-661-19  
con lamierine centrali 218-661-17 - 218-661-19



16x19 mm 5/8"x3/4"

**218-661-17**



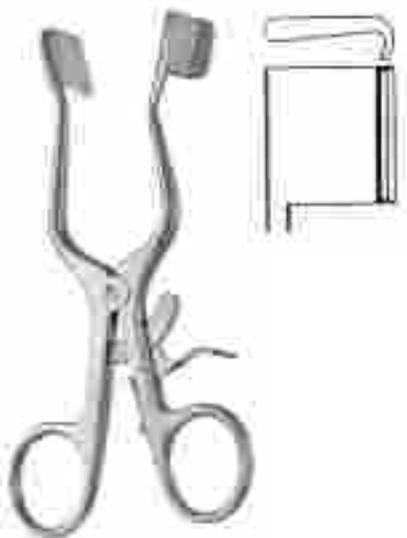
16x25 mm 5/8"x1"

**218-661-18**



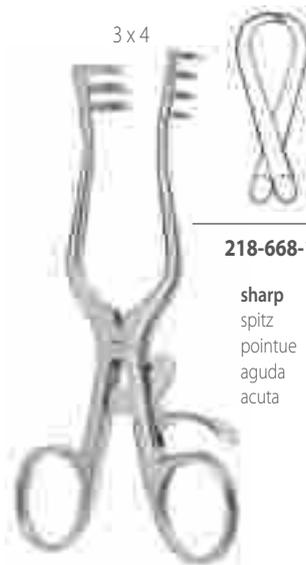
16x32 mm 5/8"x1¼"

**218-661-19**



**WEITLANER**  
13,5 cm/5¼"

**218-667-13**



**WEITLANER**  
13 cm/5"

**218-668-13**

3 x 4



**218-668-13**

**sharp**  
spitz  
pointue  
aguda  
acuta



**218-669-13**

**blunt**  
stumpf  
mousse  
romo  
smusso



**218-672-13**

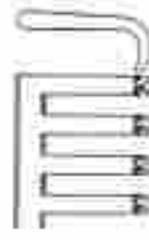
**semi-sharp**  
halbscharf  
pointu  
agudo  
acuto

**Self-retaining Retractors**

Wundspreizer  
 Ecarteurs autostatiques  
 Separadores autostitiques  
 Divaricatori autostatici



**WEITLANER**



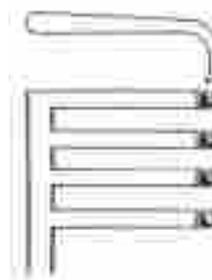
	<b>3 x 4</b>	<b>3 x 4</b>
14 cm/5½"	<b>218-670-14</b>	<b>218-671-14</b>
16,5 cm6½"	<b>218-670-16</b>	<b>218-671-16</b>

**sharp**  
 spitz  
 pointue  
 aguda  
 acuta

**blunt**  
 stumpf  
 mousse  
 romo  
 smusso



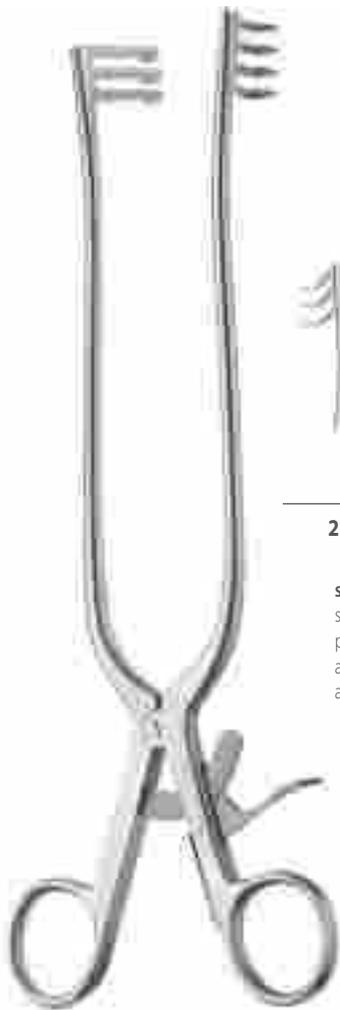
**WEITLANER**  
 20 cm/8"



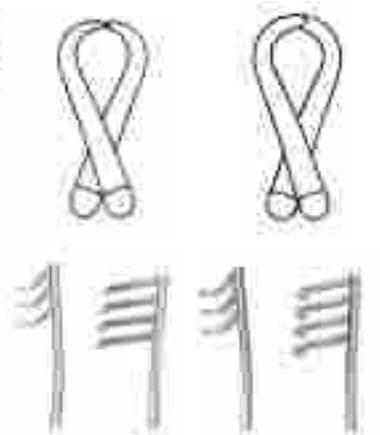
	<b>3 x 4</b>	<b>3 x 4</b>
14 cm/5½"	<b>218-670-20</b>	<b>218-671-20</b>

**sharp**  
 spitz  
 pointue  
 aguda  
 acuta

**blunt**  
 stumpf  
 mousse  
 romo  
 smusso



**WEITLANER**  
25 cm/10"



**3 x 4**  
**218-670-25**

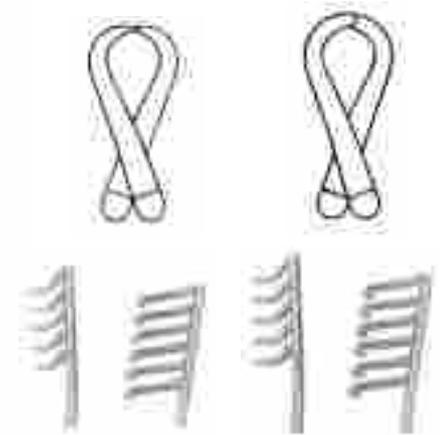
sharp  
spitz  
pointue  
aguda  
acuta

**3 x 4**  
**218-671-25**

blunt  
stumpf  
mousse  
romo  
smusso



**WEITLANER**  
26 cm/10 1/4"



**5 x 6**  
**218-670-26**

sharp  
spitz  
pointue  
aguda  
acuta

**5 x 6**  
**218-671-26**

blunt  
stumpf  
mousse  
romo  
smusso

**Self-retaining Retractors**

Wundspreizer  
 Ecarteurs autostatiques  
 Separadores autoststiques  
 Divaricatori autostatici

**RETRACTORS**

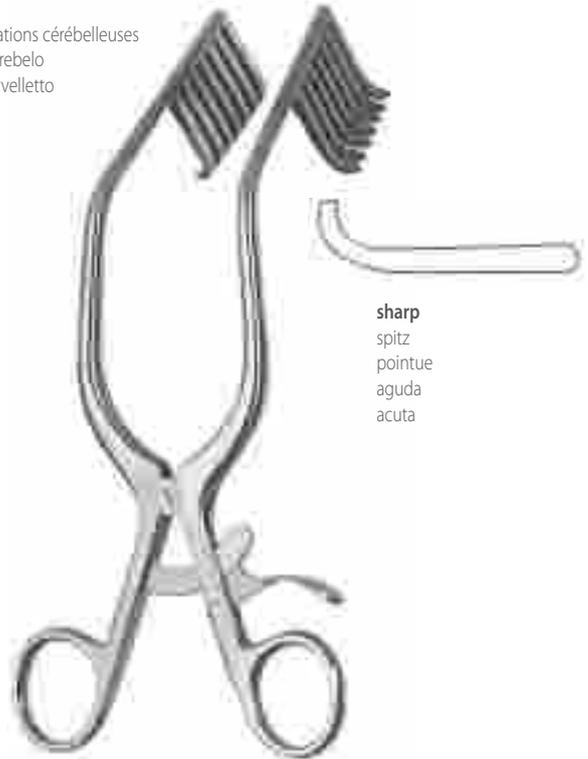
**Cerebellar Retractors**

Cerebellum-Spreizer  
 Ecarteurs pour operations cérébelleuses  
 Separadores para cerebelo  
 Divaricatori per il cervelletto



**WEITLANER**  
 16,5 cm/6½"

**218-672-16**



**MISKIMON**  
 22 cm/8¼" 35 mm

**218-672-16**

**sharp**  
 spitz  
 pointue  
 aguda  
 acuta

**Cerebellar Retractors**

Cerebellum-Spreizer  
 Ecarteurs pour operations cérébelleuses  
 Separadores para cerebelo  
 Divaricatori per il cervelletto



**ANDERSON-ADSON**  
 20 cm/8"



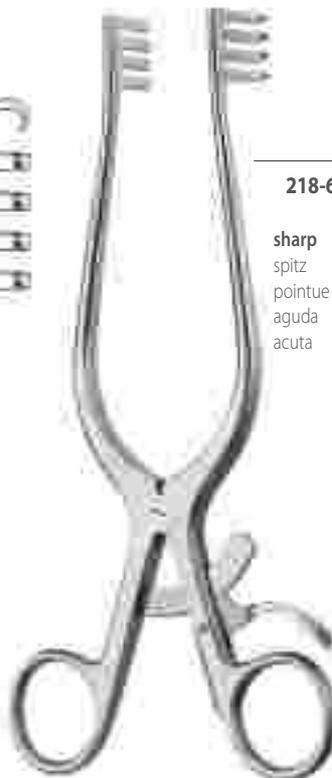
**4 x 4**  
**218-678-20**

**sharp**  
 spitz  
 pointue  
 aguda  
 acuta



**4 x 4**  
**218-679-20**

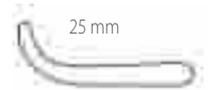
**blunt**  
 stumpf  
 mousse  
 romo  
 smusso



**ADSON**  
 19 cm/7½"

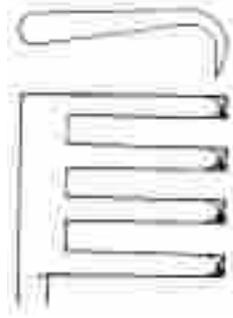
**218-680-19**

**sharp**  
 spitz  
 pointue  
 aguda  
 acuta



**218-681-19**

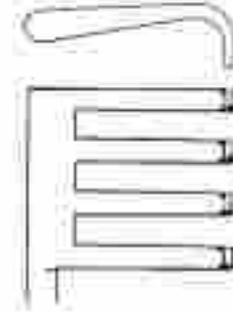
**blunt**  
 stumpf  
 mousse  
 romo  
 smusso



3 x 4

**218-682-26**

**sharp**  
spitz  
pointue  
aguda  
acuta



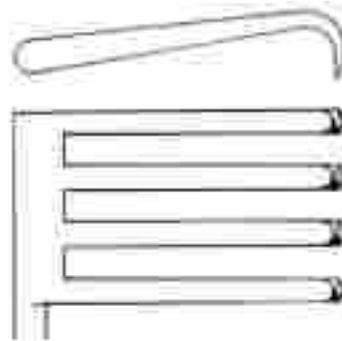
3 x 4

**218-683-26**

**blunt**  
stumpf  
mousse  
romo  
smusso



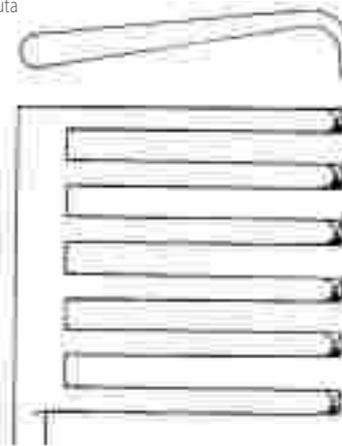
**ADSON**  
26,5 cm/10½"



3 x 4

**218-682-25**

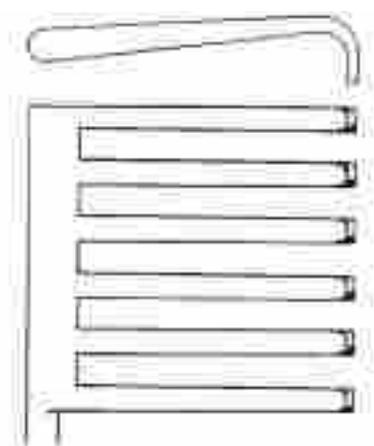
**sharp**  
spitz  
pointue  
aguda  
acuta



5 x 6

**218-682-27**

**sharp**  
spitz  
pointue  
aguda  
acuta



5 x 6

**218-683-27**

**blunt**  
stumpf  
mousse  
romo  
smusso



**ADSON**  
3 x 4

13,5 cm/5¼"	<b>218-684-13</b>	<b>218-685-13</b>
16,5 cm/6½"	<b>218-684-16</b>	<b>218-685-16</b>
20 cm/8"		<b>218-685-20</b>
21 cm/8¼"	<b>218-684-20</b>	
24,5 cm/9¾"	<b>218-684-26</b>	<b>218-685-24</b>
26 cm/10¼"		<b>218-685-26</b>

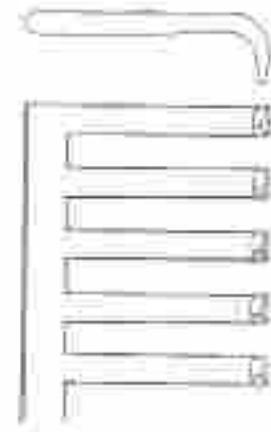


**BAECKMANN-ADSON**  
32 cm/12¾"



4 x 5  
**218-686-33**

**sharp**  
spitz  
pointue  
aguda  
acuta

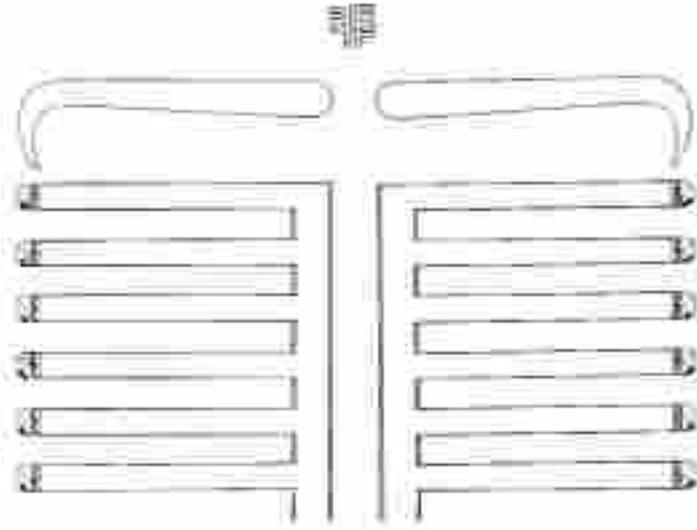


4 x 5  
**218-686-32**

**blunt**  
stumpf  
mousse  
romo  
smusso



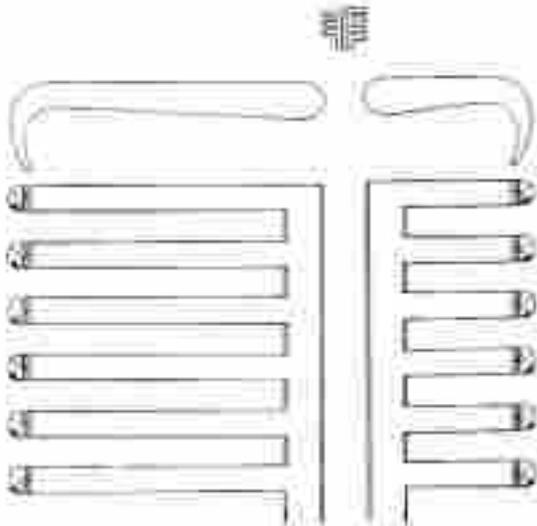
26,5 cm/10½"



6 x 6

218-687-27

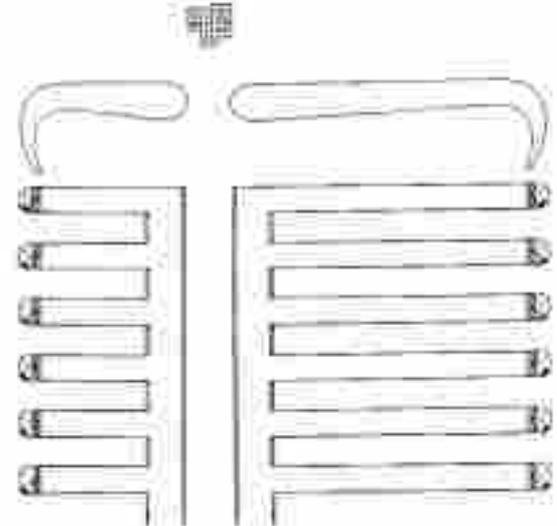
sharp  
 spitz  
 pointue  
 aguda  
 acuta



6 x 6

**218-688-27**

**sharp, long teeth on left side**  
 scharf, lange Zähne links  
 pointu, griffes longues à gauche  
 agudo, garfios largos a la izquierda  
 acuto, denti lunghe a sinistra



6 x 6

**218-689-27**

**sharp, long teeth on right side**  
 scharf, lange Zähne rechts  
 pointu, griffes longues à droite  
 agudo, dientes largos a la derecha  
 acuto, denti lunghe a destra

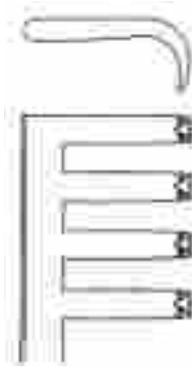


26,5 cm/10½"

150 mm



**BECKMANN**  
31 cm/30½"



4 x 4

**218-690-31**

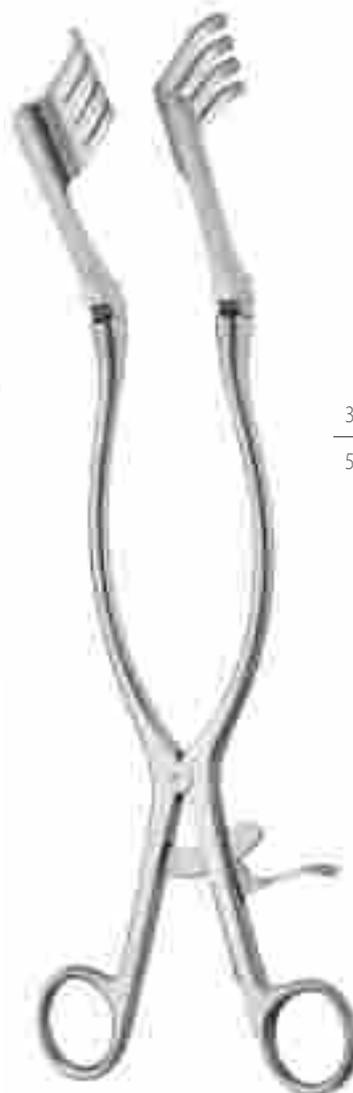
**blunt**  
 stumpf  
 mousse  
 romo  
 smusso



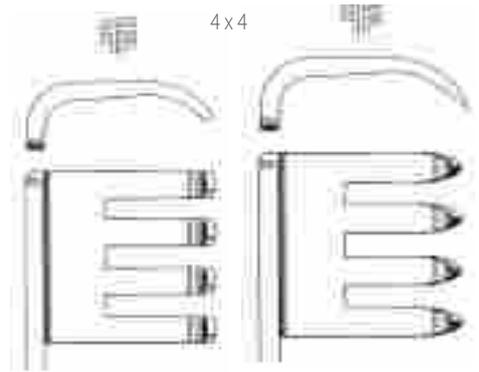
4 x 4

**218-691-31**

**sharp**  
 spitz  
 pointue  
 aguda  
 acuta



**BECKMANN-ADSON**  
30,5 cm/30¼"



4 x 4

30 mm

**218-692-00**

**218-692-01**

50 mm

**218-692-02**

**218-692-03**

**blunt**  
 stumpf  
 mousse  
 romo  
 smusso

**sharp**  
 spitz  
 pointue  
 aguda  
 acuta



sharp  
spitz  
pointue  
aguda  
acuta

140 mm



7x7

**218-692-32**

sharp  
spitz  
pointue  
aguda  
acuta

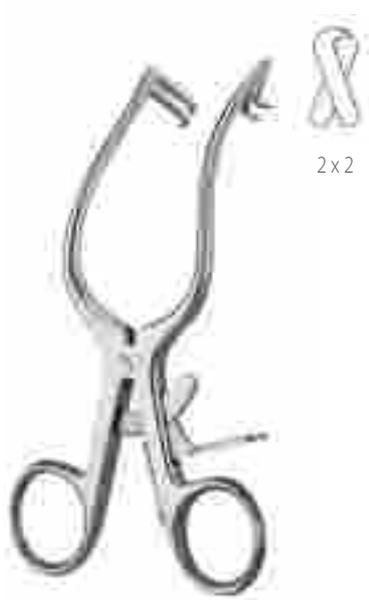


**HARVEY-JACKSON**  
28 cm/11"

**218-692-28**

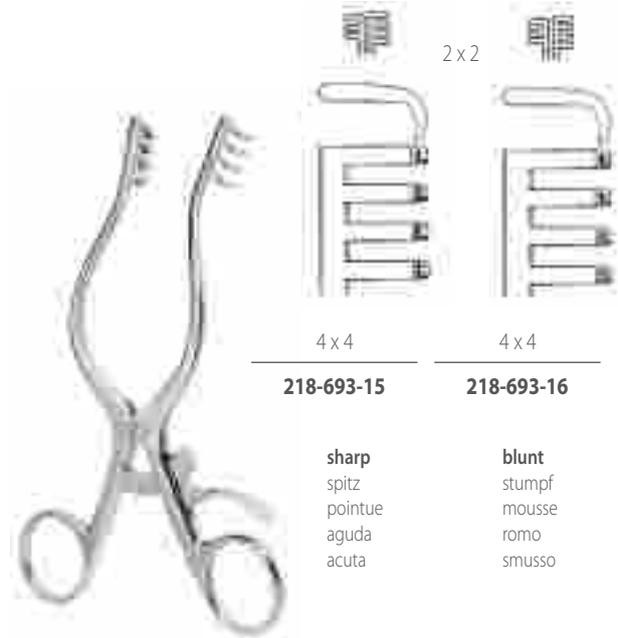


**BECKMANN-EATON**  
32 cm/12¾"



**MOLLISON**  
14 cm/5 1/2"

218-693-13



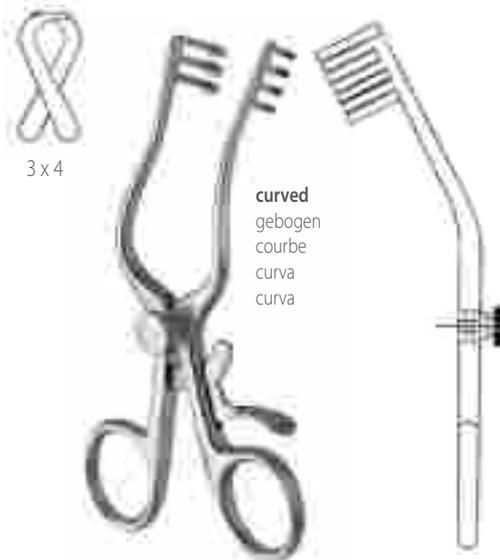
**MOLLISON**  
15 cm/6"

218-693-15

**sharp**  
spitz  
pointue  
aguda  
acuta

218-693-16

**blunt**  
stumpf  
mousse  
romo  
smusso

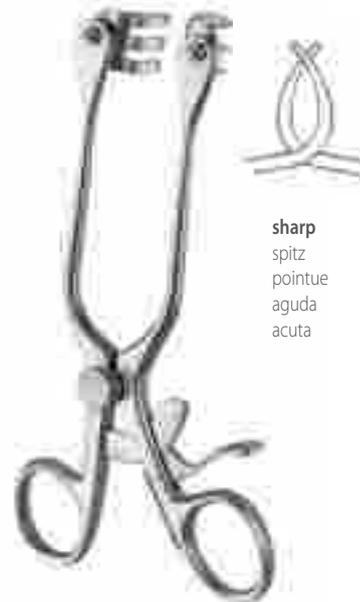


**JEFFERSON**  
14 cm/5 1/2"

218-699-14

**curved**  
gebogen  
courbe  
curva  
curva

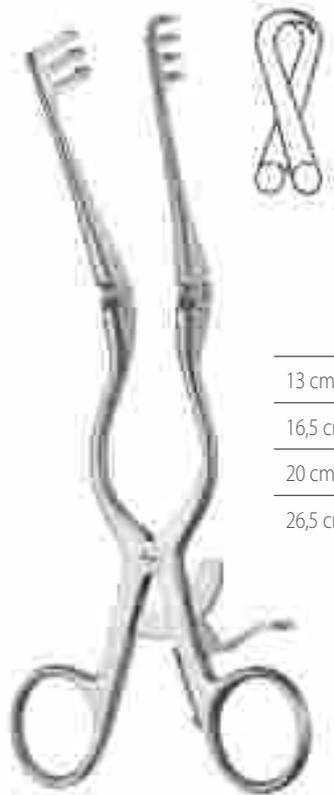
**Swivel blade**  
Valve drehbar  
Lame pivotante  
Cuchilla giratoria  
Girevole lama



**CAIRNS**  
14,5 cm/5 3/4"

218-699-15

**sharp**  
spitz  
pointue  
aguda  
acuta



**CONE**

	sharp spitz pointue aguda acuta	blunt stumpf mousse romo smusso
13 cm/5"	<b>218-694-13</b>	<b>218-695-13</b>
16,5 cm/6½"	<b>218-694-16</b>	<b>218-695-16</b>
20 cm/8"	<b>218-694-20</b>	<b>218-695-20</b>
26,5 cm/10½"	<b>218-694-25</b>	



**NORFOLK AND NORWICH**  
22 cm/8¼"

**218-699-22**



**blunt**  
stumpf  
mousse  
romo  
smusso



**DARLING**  
18 cm/7"

**218-696-18**



**DARLING**  
18 cm/7"

**218-698-18**



**blades right hand side**  
Blätter rechts  
valves à droit  
valvas a la derecha  
Lame destra

**WALTON**  
18 cm/7"

**218-707-01**



**blades left hand side**  
Blätter links  
valves à gauche  
valvas a la izquierda  
Lame sinistra

**WALTON**  
18 cm/7"

**218-707-02**



**blades right hand side**  
Blätter rechts  
valves à droit  
valvas a la derecha  
Lame destra

**KNIGHTON**  
18 cm/7"

**218-708-01**



**blades left hand side**  
Blätter links  
valves à gauche  
valvas a la izquierda  
Lame sinistra

**KNIGHTON**  
18 cm/7"

**218-708-02**



**CLOWARD**



**Spreader only**  
 Sperrer allein  
 Ecarteur seul  
 Separador suelto  
 Divaricatore solo

25 cm/10"

**218-710-01**

40 mm	<b>218-710-40</b>
45 mm	<b>218-710-45</b>
50 mm	<b>218-710-50</b>
55 mm	<b>218-710-55</b>
60 mm	<b>218-710-60</b>

**complete**  
 komplett  
 complet  
 completo  
 completo

**with 5 each plug-in blades**  
 mit je 5 Steckvalven .  
 chacun avec deux valves interchangeables  
 con 5 valvas enchufables de c.u.  
 con 5 valve ad innesto

25 cm/10"

**218-710-00**



**CLOWARD**



**Spreader only**  
 Sperrer allein  
 Ecarteur seul  
 Separador suelto  
 Divaricatore solo

15 cm/6"

**218-711-01**

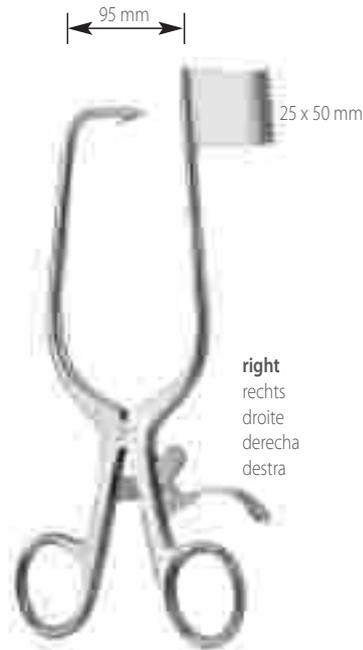
40 mm	<b>218-711-40</b>
45 mm	<b>218-711-45</b>
50 mm	<b>218-711-50</b>
55 mm	<b>218-711-55</b>
60 mm	<b>218-711-60</b>

**complete**  
 komplett  
 complet  
 completo  
 completo

**with 5 each plug-in blades**  
 mit je 5 Steckvalven .  
 chacun avec deux valves interchangeables  
 con 5 valvas enchufables de c.u.  
 con 5 valve ad innesto

17 cm/6¾"

**218-711-00**



**MARKHAM-MEYERDING**

18 cm/7"

**218-712-18**



**MARKHAM-MEYERDING**

18 cm/7"

**218-713-18**



**MEYERDING**

32 x 25 mm	<b>218-714-32</b>
54 x 25 mm	<b>218-714-54</b>
60 x 25 mm	<b>218-714-60</b>
60 x 19 mm	<b>218-714-61</b>



**WILLIAMS**

1 cm/5 cm	<b>218-881-50</b>	<b>218-880-50</b>
1 cm/6 cm	<b>218-881-60</b>	<b>218-880-60</b>
1 cm/7 cm	<b>218-881-70</b>	<b>218-880-70</b>
2 cm/5 cm	<b>218-882-50</b>	<b>218-883-50</b>
2 cm/6 cm	<b>218-882-60</b>	<b>218-883-60</b>
2 cm/7 cm	<b>218-882-70</b>	<b>218-883-70</b>

**right**  
rechts  
droite  
derecha  
destra

**left**  
links  
gauche  
izquierda  
sinistra



**CONTOUR**

13,5 cm/5¼"

**with ratchet**  
mit Sperre  
avec cremailère  
con cremallera  
con cremagliera



3 x 4

**218-725-14**

**sharp**  
spitz  
pointue  
aguda  
acuta

**Scalp Retractor**

Kopfhautspreizer

Ecarteur autostatique pour le cuir chevelu

Seperador para el cuero cabelludo

Divaricatore autostatico per il cuoio capelluto



3 x 4

**218-727-14**

**blunt**  
stumpf  
mousse  
romo  
smusso

**Cervical Retractor (Lamina Spreader)**

Cervicalspreizer (Wirbelkörperspreizer)  
 Ecarteur de tissu cervical (Ecarteur pour corps vertébraux)  
 Separador cervical (Separador de cuerpos vertebrales)  
 Divaricatore cervicale (Divaricatore per corpi vertebrali)



**CASPAR**  
15 cm/6"



**CASPAR**  
16,5 cm/6½"

**Retractor complete,  
for ventral cervical fusion operations  
with 5 blades 218-716-45 - 218-716-65**

Gegensperrerr komplett,  
für ventrale cervicale Fusionsoperationen,  
mit 5 Blättern 218-716-45 - 218-716-65

Ecarteurs complet,  
chacun avec deux valves interchangeables  
avec 5 vavles 218-716-45 - 218-716-65

Separadores completo,  
con 5 valvas enchufables de c.u. 218-716-45 -  
218-716-65

Divaricatori completo,  
con 5 valve ad innesto 218-716-45 - 218-716-65

**218-720-00**

**Retractor complete,  
for ventral cervical fusion operations  
with 5 blades 218-716-45 - 218-716-65**

Gegensperrerr komplett,  
für ventrale cervicale Fusionsoperationen,  
mit 5 Blättern 218-716-45 - 218-716-65

Ecarteurs complet,  
chacun avec deux valves interchangeables  
avec 5 vavles 218-716-45 - 218-716-65

Separadores completo,  
con 5 valvas enchufables de c.u. 218-716-45 -  
218-716-65

Divaricatori completo,  
con 5 valve ad innesto 218-716-45 - 218-716-65

**218-721-00**

**Spreader only**  
Sperrerr allein  
Ecarteur seul  
Separador suelto  
Divaricatore solo

**218-720-15**



**blunt blades**  
stumpfe Blätter  
mousse lames  
romo hojas  
smusso lame

45 x 23 mm	<b>218-716-45</b>
50 x 23 mm	<b>218-716-50</b>
55 x 23 mm	<b>218-716-55</b>
60 x 23 mm	<b>218-716-60</b>
65 x 23 mm	<b>218-716-65</b>

**Spreader only**  
Sperrerr allein  
Ecarteur seul  
Separador suelto  
Divaricatore solo

**218-721-15**

### Cervical Retractor (Lamina Spreader)

Cervicalspreizer (Wirbelkörperspreizer)  
 Ecarteur de tissu cervical (Ecarteur pour corps vertébraux)  
 Separador cervical (Separador de cuerpos vertebrales)  
 Divaricatore cervicale (Divaricatore per corpi vertebrali)



11 cm/4 1/4"

#### Retractor complete with 5 blades 218-716-45 - 218-716-65

Spreizer komplett  
mit 5 Blättern 218-716-45 - 218-716-65

Ecarteurs complet  
avec 5 vavles 218-716-45 - 218-716-65

Separadores completo  
con 5 valvas enchufables de c.u. 218-716-45 -  
218-716-65

Divaricatori completo  
con 5 valve ad innesto 218-716-45 - 218-716-65

**218-724-00**

**Spreader only**  
Sperrer allein  
Ecarteur seul  
Separador suelto  
Divaricatore solo

**218-724-11**



**blunt blades**  
stumpfe Blätter  
mousse lames  
romo hojas  
smusso lame

45 x 23 mm	<b>218-716-45</b>
50 x 23 mm	<b>218-716-50</b>
55 x 23 mm	<b>218-716-55</b>
60 x 23 mm	<b>218-716-60</b>
65 x 23 mm	<b>218-716-65</b>



CASPAR

#### Retractor complete with 5 blades 218-716-45 - 218-716-65

Spreizer komplett  
mit 5 Blättern 218-716-45 - 218-716-65

Ecarteurs complet  
avec 5 vavles 218-716-45 - 218-716-65

Separadores completo  
con 5 valvas enchufables de c.u. 218-716-45 -  
218-716-65

Divaricatori completo  
con 5 valve ad innesto 218-716-45 - 218-716-65

**218-725-00**

**Spreader only**  
Sperrer allein  
Ecarteur seul  
Separador suelto  
Divaricatore solo

**218-725-11**

**Cervical Retractor (Lamina Spreader)**

Cervicalspreizer (Wirbelkörperspreizer)  
 Ecarteur de tissu cervical (Ecarteur pour corps vertébraux)  
 Separador cervical (Separador de cuerpos vertebrales)  
 Divaricatore cervicale (Divaricatore per corpi vertebrali)



**Retractor complete with**  
**5 medial blades 218-718-40 - 218-718-60**  
**5 lateral blades 218-719-40 - 218-719-60**

Sperrer komplett mit  
 5 medialen Blättern 218-718-40 - 218-718-60  
 5 lateralen Blättern 218-719-40 - 218-719-60

Ecarteurs complet avec  
 5 médial valves 218-718-40 - 218-718-60  
 5 latéral valves 218-719-40 - 218-719-60

Separadores completo con  
 5 medial valvas 218-718-40 - 218-718-60  
 5 lateral valvas 218-719-40 - 218-719-60

Divaricatori completo con  
 5 media valve 218-718-40 - 218-718-60  
 5 laterale valve 218-719-40 - 218-719-60

**218-723-00**

**Spreader only**  
 Sperrer allein  
 Ecarteur seul  
 Separador suelto  
 Divaricatore solo

**218-723-12**



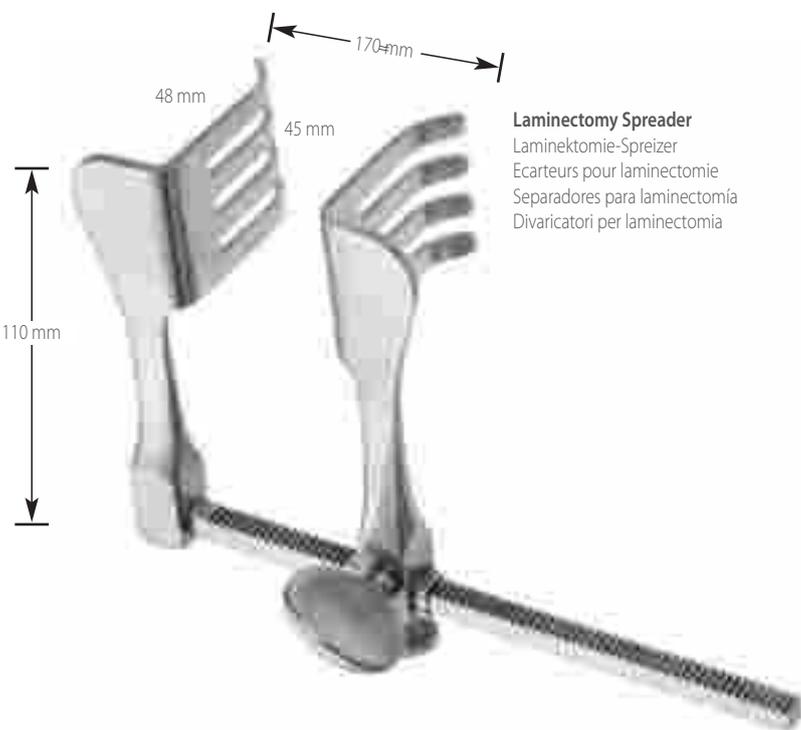
**medial blades**  
 mediale Blätter  
 Médiale lames  
 Mediale hojas  
 Mediale lame

40 x 23 mm	<b>218-718-40</b>
45 x 23 mm	<b>218-718-45</b>
50 x 23 mm	<b>218-718-50</b>
55 x 23 mm	<b>218-718-55</b>
60 x 23 mm	<b>218-718-60</b>



**lateral blades**  
 laterale Blätter  
 Lames latérales  
 hojas laterales  
 Lame laterali

40 x 23 mm	<b>218-719-40</b>
45 x 23 mm	<b>218-719-45</b>
50 x 23 mm	<b>218-719-50</b>
55 x 23 mm	<b>218-719-55</b>
60 x 23 mm	<b>218-719-60</b>



**Laminectomy Spreader**  
 Laminectomie-Spreizer  
 Ecarteurs pour laminectomie  
 Separadores para laminectomía  
 Divaricatori per laminectomia

**BADGLEY**

**656-262-16**

### Cervical Retractor (Lamina Spreader)

Cervicalspreizer (Wirbelkörperspreizer)  
 Ecarteur de tissu cervical (Ecarteur pour corps vertébraux)  
 Separador cervical (Separador de cuerpos vertebrales)  
 Divaricatore cervicale (Divaricatore per corpi vertebrali)



**blunt blades**  
 stumpfe Blätter  
 mousse lames  
 romo hojas  
 smusso lame

45 x 23 mm	<b>218-716-45</b>
50 x 23 mm	<b>218-716-50</b>
55 x 23 mm	<b>218-716-55</b>
60 x 23 mm	<b>218-716-60</b>
65 x 23 mm	<b>218-716-65</b>



**medial blades**  
 mediale Blätter  
 Médiale lames  
 Mediale hojas  
 Mediale lame

40 x 23 mm	<b>218-718-40</b>
45 x 23 mm	<b>218-718-45</b>
50 x 23 mm	<b>218-718-50</b>
55 x 23 mm	<b>218-718-55</b>
60 x 23 mm	<b>218-718-60</b>



**lateral blades**  
 laterale Blätter  
 Lames latérales  
 hojas laterales  
 Lame laterali

40 x 23 mm	<b>218-719-40</b>
45 x 23 mm	<b>218-719-45</b>
50 x 23 mm	<b>218-719-50</b>
55 x 23 mm	<b>218-719-55</b>
60 x 23 mm	<b>218-719-60</b>



50 x 25 mm	<b>218-719-40</b>
60 x 25 mm	<b>218-719-45</b>

**blunt blades, for harvesting of the fusion graft from the iliac crest**

stumpfe Blätter, zur Spanentnahme am Beckenkamm

lames de mousse, pour la récolte de la fusion greffe de la crête iliaque

hojas contundentes, para la recogida de la fusión del injerto de la cresta iliaca

Blunt lame, per la raccolta della fusione il trapianto da cresta iliaca



**medial blades**  
 mediale Blätter  
 Médiale lames  
 Mediale hojas  
 Mediale lame

40 x 24 mm	<b>218-727-40</b>
45 x 24 mm	<b>218-727-45</b>
50 x 24 mm	<b>218-727-50</b>
55 x 24 mm	<b>218-727-55</b>
60 x 24 mm	<b>218-727-60</b>



**lateral blades**  
 laterale Blätter  
 Lames latérales  
 hojas laterales  
 Lame laterali

40 x 24 mm	<b>218-728-40</b>
45 x 24 mm	<b>218-728-45</b>
50 x 24 mm	<b>218-728-50</b>
55 x 24 mm	<b>218-728-55</b>
60 x 24 mm	<b>218-728-60</b>



11,5 cm/4½"  
**218-722-11**

**Blade ejector for changing the blades**

Pinzette zum Wechseln der Valven

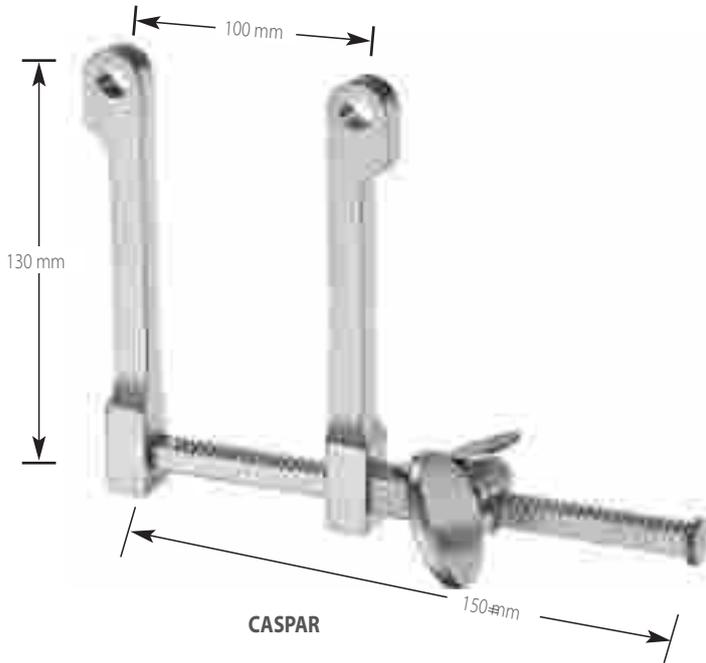
Pince pour le changement des valves

Pinza para cambiar las valvas

Pinza per cambiare le valve

### Cervical Retractor (Lamina Spreader)

Cervicalspreizer (Wirbelkörperspreizer)  
 Ecarteur de tissu cervical (Ecarteur pour corps vertébraux)  
 Separador cervical (Separador de cuerpos vertebrales)  
 Divaricatore cervicale (Divaricatore per corpi vertebrali)



#### Retractor complete with hook 218-731-50; 5 blades 218-732-40 - 218-732-60

Spreizer komplett mit Haken 218-731-50; 5 Valven 218-732-40 - 218-732-60

Ecarteurs complet avec crochet 218-731-50; 5 vavles 218-732-40 - 218-732-60

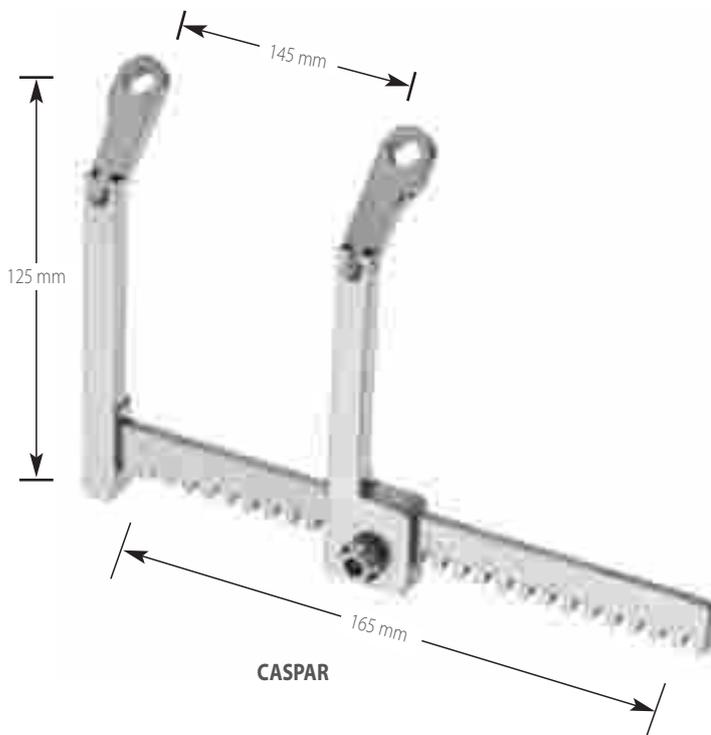
Separadores completo con gancho 218-731-50; 5 valvas enchufables de c.u. 218-732-40 - 218-732-60

Divaricatori completo con gancio 218-731-50; 5 valve ad innesto 218-732-40 - 218-732-60

**18-730-00**

**Spreader only**  
 Sperrer allein  
 Ecarteur seul  
 Separador suelto  
 Divaricatore solo

**218-730-15**



#### Retractor complete with hook 218-731-50; 5 blades 218-732-40 - 218-732-60

Spreizer komplett mit Haken 218-731-50; 5 Valven 218-732-40 - 218-732-60

Ecarteurs complet avec crochet 218-731-50; 5 vavles 218-732-40 - 218-732-60

Separadores completo con gancho 218-731-50; 5 valvas enchufables de c.u. 218-732-40 - 218-732-60

Divaricatori completo con gancio 218-731-50; 5 valve ad innesto 218-732-40 - 218-732-60

**218-731-00**

**Retractor only, with key**  
 Sperrer allein, mit Drehschlüssel  
 Ecarteur seul, avec clef  
 Separador suelto, con llave  
 Divaricatore solo, con chiave

**218-731-14**

**Key only**  
 Drehschlüssel allein  
 Clef seule  
 Llave sola  
 Chiave sola

**218-731-99**



### Cervical Retractor (Lamina Spreader)

Cervicalspreizer (Wirbelkörperspreizer)  
 Ecarteur de tissu cervical (Ecarteur pour corps vertébraux)  
 Separador cervical (Separador de cuerpos vertebrales)  
 Divaricatore cervicale (Divaricatore per corpi vertebrali)

**Hook 50 mm**  
 Haken 50 mm  
 crochet 50 mm  
 gancho 50 mm  
 gancio 50 mm



**CASPAR**

**218-731-50**

**Hook 70 mm**  
 Haken 70 mm  
 crochet 70 mm  
 gancho 70 mm  
 gancio 70 mm



**CASPAR**

**218-731-70**



**CASPAR**

35 x 22 mm	<b>218-732-35</b>
40 x 22 mm	<b>218-732-40</b>
45 x 22 mm	<b>218-732-45</b>
50 x 22 mm	<b>218-732-50</b>
55 x 22 mm	<b>218-732-55</b>
60 x 22 mm	<b>218-732-60</b>
65 x 22 mm	<b>218-732-65</b>
70 x 22 mm	<b>218-732-70</b>



**CASPAR**

35 x 37 mm	<b>218-733-35</b>
40 x 37 mm	<b>218-733-40</b>
45 x 37 mm	<b>218-733-45</b>
50 x 37 mm	<b>218-733-50</b>
55 x 37 mm	<b>218-733-55</b>
60 x 37 mm	<b>218-733-60</b>
65 x 37 mm	<b>218-733-65</b>
70 x 37 mm	<b>218-733-70</b>



**CASPAR**

35 x 52 mm	<b>218-734-35</b>
40 x 52 mm	<b>218-734-40</b>
45 x 52 mm	<b>218-734-45</b>
50 x 52 mm	<b>218-734-50</b>
55 x 52 mm	<b>218-734-55</b>
60 x 52 mm	<b>218-734-60</b>
65 x 52 mm	<b>218-734-65</b>
70 x 52 mm	<b>218-734-70</b>

**CASPAR**
**218-736-00**

**Vertebral body distractor, for use in surgical procedures from the **right** approach for C 5 through T½ and from the **left** approach for the upper cervical spine, consisting of:**

1 Distractor only	<b>218-736-01</b>
1 Drill guide	<b>218-736-02</b>
1 Twist Drill	<b>218-736-10</b>
2 Distraction Screws	<b>218-736-16</b>
1 Screw driver	<b>218-736-20</b>

Wirbelkörperdistraktor, für Eingriffe mittels rechtsseitigem Zugang zu C5 - T½ und linksseitigem Zugang zur oberen HWS, bestehend aus:

1 Distraktor allein	<b>218-736-01</b>
1 Bohrlehre	<b>218-736-02</b>
1 Bohrer	<b>218-736-10</b>
2 Distraktionsschrauben	<b>218-736-16</b>
1 Schraubendreher	<b>218-736-20</b>

DISTRACTEUR corps vertébral, pour utilisation dans les interventions chirurgicales de la bonne approche pour C 5 à T½ et de la gauche approche de la colonne cervicale supérieure, composée de:

1 distracteur seul	<b>218-736-01</b>
1 guide-meche	<b>218-736-02</b>
1 meche	<b>218-736-10</b>
2 vis a distraction	<b>218-736-16</b>
1 tournevis	<b>218-736-20</b>

Cuerpo vertebral distractor, para su uso en procedimientos quirúrgicos desde el enfoque correcto para C 5 a T½ y de la izquierda enfoque para la parte superior de la columna cervical, consistente en:

1 distractor suelto	<b>218-736-01</b>
1 guia-taladro	<b>218-736-02</b>
1 taladro	<b>218-736-10</b>
2 tornillo de distraccion	<b>218-736-16</b>
1 destornillador	<b>218-736-20</b>

Distractor corpo vertebrale, per l'uso in procedure chirurgiche da il giusto approccio per C 5 - T½ e da sinistra per il rachide cervicale superiore, comprendente:

1 distrattore sole	<b>218-736-01</b>
1 guida-trapano	<b>218-736-02</b>
1 trapano	<b>218-736-10</b>
2 vite per distrazione	<b>218-736-16</b>
1 cacciavite	<b>218-736-20</b>

**CASPAR**
**218-736-01**
**Distractor only**

Distraktor allein  
DISTRACTEUR seulement  
Distractor sólo  
Distractor solo


**CASPAR**
**218-736-02**
**Drill guide**

for parallel positioning of the distraction screws, to be used with distractor 218-736-01

Bohrlehre  
zur parallelen Positionierung der  
Distraktionsschrauben, mit Distraktor 218-736-01  
zu verwenden

Guide-meche  
parallèle pour le positionnement des vis de  
distraction, destiné à être utilisé avec DISTRACTEUR  
218-736-01

El taladro guía  
paralelo para la colocación de tornillos de  
distracción, para ser utilizado con distractor  
218-736-01

Trapano guida  
parallelo per il posizionamento di distrazione viti,  
per essere utilizzata con distractor 218-736-01



## CASPAR

218-737-00

**Vertebral body distractor, for use in surgical procedures from the right approach for C 5 through T $\frac{1}{2}$  and from the left approach for the upper cervical spine, consisting of:**

1 Distractor only	<b>218-737-01</b>
1 Drill guide	<b>218-737-02</b>
1 Twist Drill	<b>218-736-10</b>
2 Distraction Screws	<b>218-736-16</b>
1 Screw driver	<b>218-736-20</b>

Wirbelkörperdistraktor, für Eingriffe mittels rechtsseitigem Zugang zu C5 - T $\frac{1}{2}$  und linksseitigem Zugang zur oberen HWS, bestehend aus:

1 Distraktor allein	<b>218-737-01</b>
1 Bohrlehre	<b>218-737-02</b>
1 Bohrer	<b>218-736-10</b>
2 Distraktionsschrauben	<b>218-736-16</b>
1 Schraubendreher	<b>218-736-20</b>

DISTRACTEUR corps vertébral, pour utilisation dans les interventions chirurgicales de la bonne approche pour C 5 à T $\frac{1}{2}$  et de la gauche approche de la colonne cervicale supérieure, composée de:

1 distracteur seul	<b>218-737-01</b>
1 guide-meche	<b>218-737-02</b>
1 meche	<b>218-736-10</b>
2 vis a distraction	<b>218-736-16</b>
1 tournevis	<b>218-736-20</b>

Cuerpo vertebral distractor, para su uso en procedimientos quirúrgicos desde el enfoque correcto para C 5 a T $\frac{1}{2}$  y de la izquierda enfoque para la parte superior de la columna cervical, consistente en:

1 distractor suelto	<b>218-737-01</b>
1 guia-taladro	<b>218-737-02</b>
1 taladro	<b>218-736-10</b>
2 tornillo de distraccion	<b>218-736-16</b>
1 destornillador	<b>218-736-20</b>

Distractor corpo vertebrale, per l'uso in procedure chirurgiche da il giusto approccio per C 5 - T $\frac{1}{2}$  e da sinistra per il rachide cervicale superiore, comprendente:

1 distrattore sole	<b>218-737-01</b>
1 guida-trapano	<b>218-737-02</b>
1 trapano	<b>218-736-10</b>
2 vite per distrazione	<b>218-736-16</b>
1 cacciavite	<b>218-736-20</b>



## CASPAR

218-737-01

**Distractor only**  
 Distraktor allein  
 DISTRACTEUR seulement  
 Distractor sólo  
 Distractor solo



## CASPAR

218-737-02

**Drill guide**  
 for parallel positioning of the distraction screws,  
 to be used with distractor 218-736-01

Bohrlehre  
 zur parallelen Positionierung der  
 Distraktionsschrauben, mit Distraktor 218-736-01  
 zu verwenden

Guide-meche  
 parallèle pour le positionnement des vis de  
 distraction, destiné à être utilisé avec DISTRACTEUR  
 218-736-01

El taladro guía  
 paralelo para la colocación de tornillos de  
 distracción, para ser utilizado con distractor  
 218-736-01

Trapano guida  
 parallelo per il posizionamento di distrazione viti,  
 per essere utilizzata con distractor 218-736-01

**Twist drill, Ø 1.7 mm  
for pre-boring holes for distraction  
screws, drilling depth: 8 mm  
shank Ø 2.35 mm**

Bohrer, Ø 1,7 mm  
zum Vorbohren für Distraktionsschrauben,  
Bohrtiefe: 8 mm, Schaft Ø 2,35 mm

Meche Ø 1,7 mm,  
pour pré-perçage des trous de distraction vis,  
profondeur de forage de 8 mm  
Shank Ø 2,35 mm

Taladro Ø 1,7 mm,  
para taladros previos agujeros para tornillos de distracción,  
perforación de 8 mm de profundidad  
mango Ø 2,35 mm

Trapano Ø 1,7 mm,  
per la pre-alesatura fori per viti di distrazione,  
profondità di perforazione 8 mm  
gambo Ø 2,35 mm



**CASPAR**  
14,5 cm/5¾"

**218-736-10**

**Distraction screws to be used with  
distractors 218-736-01, 218-737-01 at least 2 each are required.**

Distraktionsschrauben zur Verwendung  
mit Distraktoren 218-736-01, 218-737-01 mindestens 2  
Schrauben werden benötigt.

Distraction vis pour être utilisé avec distracteurs  
218-736-01 et 218-737-01. Au moins 2 chacun sont nécessaires.

Distracción tornillos para ser usado con distractors  
218-736-01 y 218-737-01. Por lo menos cada 2 son obligatorios.

Viti di distrazione per essere utilizzato con distractors  
218-736-01 e 218-737-01. Almeno ogni 2 sono obbligatori.



**CASPAR**  
7 cm/2¾"

12 mm	<b>218-736-12</b>
14 mm	<b>218-736-14</b>
16 mm	<b>218-736-16</b>
18 mm	<b>218-736-18</b>

**Screw driver  
for Distraction screws**

Schraubendreher für  
Distraktionsschrauben

Tournevis  
vis de distraction

Destornillador  
para tornillos de distracción

Cacciavite  
per viti Distraction



**CASPAR**  
20 cm/8"

**218-736-20**



**Retractor complete with  
5 lateral blades 218-719-40 - 218-719-60**

Sperrer komplett mit  
5 lateralen Blättern 218-738-35 - 218-738-60

Ecarteurs complet avec  
5 latéral valves 218-719-40 - 218-719-60

Separadores completo con  
5 lateral valvas 218-719-40 - 218-719-60

Divaricatori completo con  
5 laterale valve 218-719-40 - 218-719-60

**218-738-00**

**Spreader only**

Sperrer allein  
Ecarteur seul  
Separador suelto  
Divaricatore solo

**218-737-01**



**lateral blades**  
laterale Blätter  
Lames latérales  
hojas laterales  
Lame laterali

- 35 mm
- 40 mm
- 45 mm
- 50 mm
- 55 mm
- 60 mm
- 65 mm
- 75 mm
- 85 mm

**CASPAR**  
7 cm/2¾"

35 mm	<b>218-738-35</b>
40 mm	<b>218-738-40</b>
45 mm	<b>218-738-45</b>
50 mm	<b>218-738-50</b>
55 mm	<b>218-738-55</b>
60 mm	<b>218-738-60</b>
65 mm	<b>218-738-65</b>
75 mm	<b>218-738-75</b>
85 mm	<b>218-738-85</b>



**medial blades**  
mediale Blätter  
Médiale lames  
Mediale hojas  
Mediale lame

- 35 mm
- 40 mm
- 45 mm
- 50 mm
- 55 mm
- 60 mm
- 65 mm
- 70 mm

**CASPAR**  
7 cm/2¾"

35 mm	<b>218-739-35</b>
40 mm	<b>218-739-40</b>
45 mm	<b>218-739-45</b>
50 mm	<b>218-739-50</b>
55 mm	<b>218-739-55</b>
60 mm	<b>218-739-60</b>
65 mm	<b>218-739-65</b>
70 mm	<b>218-739-70</b>



**CASPAR**  
 17 cm/6¾"

**Retractor complete, with 5 blades**  
 218-745-40 - 218-745-60

Gegensperrerr komplett, mit 5 Blättern  
 218-745-40 - 218-745-60

Ecarteurs complet avec 5 valves  
 218-745-40 - 218-745-60

Separadores completo con 5 valvas  
 218-745-40 - 218-745-60

Divaricatori completo con 5 valve  
 218-745-40 - 218-745-60

**218-744-00**

**Retractor only, with 1 fixed blade**

Gegensperrerr allein, mit 1 festen Blatt  
 Ecarteur seul, con 1 valve fixe  
 Separador suelto, con 1 valva fija  
 Divaricatore solo, con 1 valve fissa

**218-744-17**

**Blades black-finish**  
 Blätter geschwärzt  
 valves de couleur noir  
 valvas de color negro  
 valve di colore nero



**CASPAR**

40 mm	<b>218-745-40</b>
45 mm	<b>218-745-45</b>
50 mm	<b>218-745-50</b>
55 mm	<b>218-745-55</b>
60 mm	<b>218-745-60</b>
65 mm	<b>218-745-65</b>
70 mm	<b>218-745-70</b>

**Specula for lumbar vertebral operations**

Muskelabspreizer für lumbale Bandscheiben operation  
 spéculum pour les opérations de vertébrale lombaire  
 especulativo de las operaciones vertebral lumbar  
 specula per operazioni vertebrale lombare

**Blades black-finish**

Blätter geschwärzt  
 valves de couleur noir  
 valvas de color negro  
 valve di colore nero

**CASPAR**

40 mm	<b>218-748-40</b>
45 mm	<b>218-748-45</b>
50 mm	<b>218-748-50</b>
55 mm	<b>218-748-55</b>
60 mm	<b>218-748-60</b>
65 mm	<b>218-748-65</b>
75 mm	<b>218-748-75</b>
85 mm	<b>218-748-85</b>

### Hemilaminectomy Retractor

Hemilaminektomiespreizer  
 Ecarteur pour hémilaminectomie  
 Separadores para hemilaminectomía  
 Divaricatori per emilaminectomia



65 mm

**Frame only**  
 Rahmen allein  
 Cadre seul  
 Bastidor solo  
 Talaio solo

**218-751-24**

### Hemilaminectomy retractor complete, with 2 pairs of blades

Hemilaminektomiespreizer komplett, mit 2 Paar Blätter  
 Ecarteur pour hémilaminectomie complet, con 2 paire valves  
 Separador para hemilaminectomía completo, con 2 par valvas  
 Divaricatore per emilaminectomia completo, con 2 paio valve

**218-751-25**

### Blade pair

Valve Paar  
 Valve paire  
 Valva par  
 Valva paio

25 - 50 x 55 mm | **218-751-31**

25 - 50 x 65 mm | **218-751-32**

**CLOWARD-HOEN**  
 25 cm/10"



65 mm

45 x 45 mm

45 x 35 mm

25 x 45 mm

25 x 35 mm

### Hemilaminectomy retractor complete, with 4 blades

Hemilaminektomiespreizer komplett, mit 4 Blätter  
 Ecarteur pour hémilaminectomie complet, con 4 valves  
 Separador para hemilaminectomía completo, con 4 valvas  
 Divaricatore per emilaminectomia completo, con 4 valve

**218-753-27**

### Blade only

Valve allein  
 Valve seule  
 Valva solo  
 Valva solo

45 x 45 mm | **218-753-32**

45 x 35 mm | **218-753-30**

25 x 45 mm | **218-753-36**

25 x 35 mm | **218-753-34**

**Frame only**  
 Rahmen allein  
 Cadre seul  
 Bastidor solo  
 Talaio solo

**218-753-26**

**HOEN**  
 27 cm/10¾"

## RETRACTORS



**MALIS**  
19 cm/7½"

**Retractor without Blades**

Spreizer ohne Valven  
Ecarteur sans valves  
Separador sin valvas  
Divaricatori san valvas

**218-860-19**

**Retractor complete**

Sperrer komplett  
Ecarteurs complet  
Separadores completo  
Divaricatori completo

**218-861-00**

**Fixation device**

Fixiervorrichtung  
Compas articulad  
Dispositivos de fijación  
Dispositivo di fissaggio



**218-861-01**

*adjustable arm*

Stellarm  
réglable bras  
soporte ajustable  
braccio regolabile



**218-861-02**

9 cm/3½"

**218-862-09**

12 cm/4¾"

**218-862-12**

15 cm/6"

**218-862-15**

**Blades for MALIS**

Valven für MALIS  
Valves pour MALIS  
Valvas para MALIS  
Valvas per MALIS



9 x 70 mm

**218-863-09**



14 x 70 mm

**218-863-14**



16 x 70 mm

**218-863-16**



19 x 70 mm

**218-863-19**



25 x 70 mm

**218-863-25**



**JANNETTA**  
19 cm/7½"

**Retractor without Blades**

 Spreizer ohne Valven  
 Ecarteur sans valves  
 Separador sin valvas  
 Divaricatori san valvas

**218-870-19**
**Retractor complete, consisting of:**

 Sperrer komplett, bestehend aus:  
 Ecarteurs complet, composé de:  
 Separadores completo, compuesto de:  
 Divaricatori completo, costituito da:

**218-870-00**

1 x	<b>218-870-19</b>
2 x	<b>218-871-01</b>
2 x	<b>218-871-02</b>
1 x	<b>218-873-16</b>
1 x	<b>218-873-20</b>
1 x	<b>218-873-25</b>
1 x	<b>218-875-05</b>
1 x	<b>218-875-11</b>
1 x	<b>218-875-21</b>

**Fixation device**  
 Fixiervorrichtung  
 Compas articulé  
 Dispositivos de fijación  
 Dispositivo di fissaggio


**218-871-01**

**218-871-02**
**Blades for JANNETTA**

 Valves für JANNETTA  
 Valves pour JANNETTA  
 Valvas para JANNETTA  
 Valvas per JANNETTA


16 x 70 mm	<b>218-873-16</b>
20 x 70 mm	<b>218-873-20</b>
25 x 70 mm	<b>218-873-25</b>



5 x 90 mm	<b>218-875-05</b>
11 x 90 mm	<b>218-875-11</b>
21 x 90 mm	<b>218-875-21</b>



**APFELBAUM**  
 18 cm/7"

**Spreader only**  
 Sperrer allein  
 Ecarteur seul  
 Separador suelto  
 Divaricatore solo

**218-915-01**

**Retractor complete with arm and 3 blades**  
 Retraktor komplett mit Arm und 3 Valven  
 Ecarteur complet avec bras et 3 valves  
 Separador completo con brazo y 3 valvas  
 Divaricatore completo di braccio e 3 valve

**218-915-00**

**adjustable arm**  
 Stellarm  
 réglable bras  
 soporte ajustable  
 braccio regolabile



**right**  
 rechts  
 droite  
 derecha  
 destra

**218-915-03**



**218-915-04**



**left**  
 links  
 gouche  
 izquierda  
 sinistra

**218-915-05**



24 cm/9½"

**218-915-02**



**SCOVILLE**

**Laminectomy retractor complete  
 with 1 hook 218-906-06 and 1 blade 218-907-05**

Laminektomiespreizer komplett  
 mit 1 Haken 218-906-06 und 1 Valve 218-907-05

Ecarteur pour laminectomie complet  
 avec 1 crochet 218-906-06 et 1 valve 218-907-05

Separador para laminectomía completo  
 con 1 gancho 218-906-06 y 1 valva 218-907-05

Divaricatore per laminectomia completo  
 con 1 gancio 218-906-06 e 1 valva 218-907-05

**218-904-10**

**Frame only**  
 Rahmen allein  
 Cadre seul  
 Bastidor solo  
 Talaio solo

**218-904-00**



**SCOVILLE-HAVERFIELD**

**Laminectomy retractor complete  
 with 1 hook 218-906-06 and 1 blade 218-907-05**

Laminektomiespreizer komplett  
 mit 1 Haken 218-906-06 und 1 Valve 218-907-05

Ecarteur pour laminectomie complet  
 avec 1 crochet 218-906-06 et 1 valve 218-907-05

Separador para laminectomía completo  
 con 1 gancho 218-906-06 y 1 valva 218-907-05

Divaricatore per laminectomia completo  
 con 1 gancio 218-906-06 e 1 valva 218-907-05

**218-905-00**

**Frame only**  
 Rahmen allein  
 Cadre seul  
 Bastidor solo  
 Talaio solo

**218-905-10**



VALIN

**Laminectomy retractor complete with 1 hook 218-906-06 and 1 blade 218-907-05**

Laminektomiespreizer komplett mit 1 Haken 218-906-06 und 1 Valve 218-907-05

Ecarteur pour laminectomie complet avec 1 crochet 218-906-06 et 1 valve 218-907-05

Separador para laminectomía completo con 1 gancho 218-906-06 y 1 valva 218-907-05

Divaricatore per laminectomia completo con 1 gancio 218-906-06 e 1 valva 218-907-05

**218-906-00**

**Frame only**

Rahmen allein  
Cadre seul  
Bastidor solo  
Talaio solo

**218-906-09**

**Hook, sharp**

Hakenvalve, spitz  
Valve à griffes, pointu  
Gancho, agudo  
Uncino, acuto



**SCOVILLE**

50 mm	<b>218-906-01</b>
70 mm	<b>218-906-02</b>
75 mm	<b>218-906-03</b>

**Hook, blunt**

Hakenvalve, stumpf  
Valve à griffes, mousse  
Gancho, romo  
Uncino, smusso



**SCOVILLE**

50 mm	<b>218-906-06</b>
70 mm	<b>218-906-07</b>
75 mm	<b>218-906-08</b>



**TAYLOR**

47 x 37 mm 3 Z.	<b>218-906-40</b>
48 x 50 mm 4 Z.	<b>218-906-41</b>
64 x 50 mm 4 Z.	<b>218-906-42</b>
64 x 64 mm 4 Z.	<b>218-906-43</b>
80 x 57 mm 4 Z.	<b>218-906-44</b>



**SCOVILLE**

41 x 38 mm	<b>218-906-46</b>
67 x 44 mm	<b>218-906-47</b>



**SCOVILLE**

50 x 25 mm	<b>218-907-01</b>
50 x 50 mm	<b>218-907-02</b>
57 x 25 mm	<b>218-907-03</b>
57 x 38 mm	<b>218-907-04</b>
64 x 25 mm	<b>218-907-05</b>
64 x 29 mm	<b>218-907-06</b>
64 x 50 mm	<b>218-907-07</b>
67 x 28 mm	<b>218-907-08</b>
67 x 30 mm	<b>218-907-09</b>
75 x 25 mm	<b>218-907-10</b>
75 x 50 mm	<b>218-907-11</b>
88 x 25 mm	<b>218-907-12</b>
100 x 50 mm	<b>218-907-13</b>



**MEYERDING**

44 x 25 mm	<b>218-909-44</b>
50 x 25 mm	<b>218-909-50</b>
57 x 25 mm	<b>218-909-57</b>
70 x 25 mm	<b>218-909-70</b>
75 x 25 mm	<b>218-909-75</b>
83 x 25 mm	<b>218-909-83</b>
88 x 50 mm	<b>218-909-88</b>



**HIBBS**

50 x 19 mm	<b>218-910-01</b>
50 x 25 mm	<b>218-910-02</b>
50 x 50 mm	<b>218-910-03</b>
64 x 25 mm	<b>218-910-04</b>
64 x 38 mm	<b>218-910-05</b>
75 x 25 mm	<b>218-910-06</b>
75 x 38 mm	<b>218-910-07</b>
75 x 50 mm	<b>218-910-08</b>
75 x 64 mm	<b>218-910-09</b>
88 x 25 mm	<b>218-910-10</b>
88 x 38 mm	<b>218-910-11</b>
100 x 25 mm	<b>218-910-12</b>
100 x 50 mm	<b>218-910-13</b>



**TAYLOR**

75 x 32 mm	<b>218-912-01</b>
100 x 42 mm	<b>218-912-02</b>



**SCOVILLE-RICHTER**

**Laminectomy retractor complete with 1 pair of blades 218-948-11**

Laminektomiespreizer komplett mit 1 Paar Valven 218-948-11

Ecarteur pour laminectomie complet avec 1 paire valves 218-948-11

Separador para laminectomía completo con 1 par valvas 218-948-11

Divaricatore per laminectomia completo con 1 paio valve 218-948-11

**218-948-00**

**Frame only**

Rahmen allein  
 Cadre seul  
 Bastidor solo  
 Talaio solo

**218-948-10**



62 x 52 mm



62 x 37 mm

**Pair**  
 Paar  
 Paire  
 Par  
 Paio

**218-948-11**



47 x 51 mm

**Pair**  
 Paar  
 Paire  
 Par  
 Paio

**218-948-12**



30 x 40 mm

**Pair**  
 Paar  
 Paire  
 Par  
 Paio

**218-948-13**



37 x 62 mm

**Pair**  
 Paar  
 Paire  
 Par  
 Paio

**218-948-14**



with ratchet  
 mit Sperre  
 avec cremaillère  
 con cremallera  
 con cremagliera

**CLOWARD**  
 16 cm/6¼"

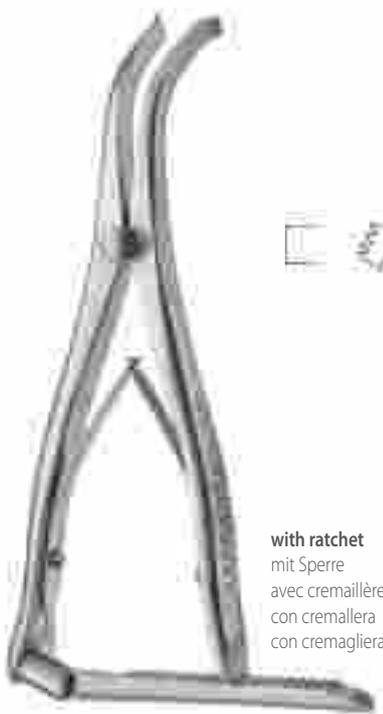
**440-401-16**



with ratchet  
 mit Sperre  
 avec cremaillère  
 con cremallera  
 con cremagliera

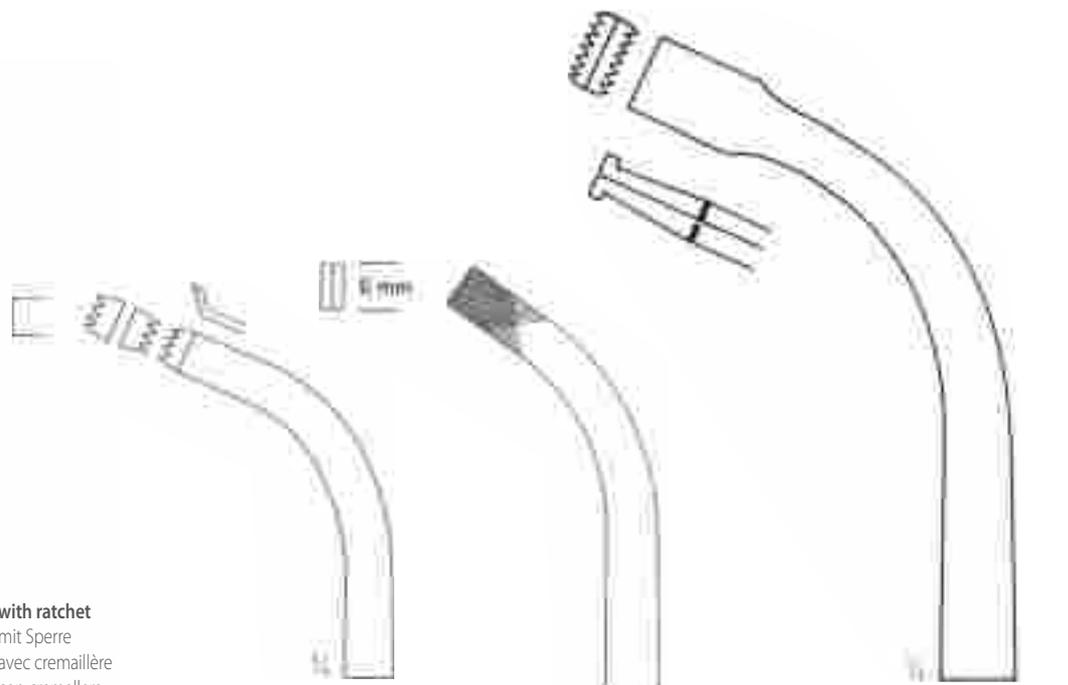
**CLOWARD**  
 15 cm/6"

**440-402-15**



with ratchet  
 mit Sperre  
 avec cremaillère  
 con cremallera  
 con cremagliera

**INGE**



17 cm/6¾"

**440-405-17**

17 cm/6¾"

**440-406-17**

27 cm/10¾"

**440-405-27**

10 |

## Needle Holders

Nadelhalter

Porte-aiguilles

Porta-agujas

Port'aghi

with TC inserts  
 Mit TC-Einsätzen  
 A mors TC  
 Con bocas TC  
 Con morso TC

**The AMAAX TC Needle holders are equipped with the following tungsten carbide inserts:**

 Folgende Hartmetalleinlagen werden für **AMAAX TC** Nadelhalter verwendet:

 Les inserts suivants en metal dur sont utilisés pour les porte-aiguilles **AMAAX TC**:

 Las porta-agujas **AMAAX TC** están equipados con las siguientes plaquitas de carburo de tungsteno:

 I portaghi **AMAAX TC** dispongono delle seguenti placche in carburo di tungsteno:

		<b>structure</b> Teilung structure estriatura struttura	<b>recommended for suture material</b> empfohlen für Nahtmaterial recommandé pour matériel de suture recomandado para suturas raccomodato per materiale di suture
	<b>regular</b> normal régulière regular regolare	<b>0,5 mm</b>	<b>&gt; 3,0</b>
	<b>mini</b> mini mini mini mini	<b>0,4 mm</b>	<b>4,0 - 6,0</b>
	<b>micro</b> mikro micro micro micro	<b>0,3 mm</b>	<b>7,0 - 10,0</b>
	<b>smooth</b> glatt lisse lisa piatta	-	<b>7,0 - 10,0</b>

**with TC inserts**  
Mit TC-Einsätzen  
A mors TC  
Con bocas TC  
Con morso TC

**with offset ring**  
mit aufgebogenem Daumenring  
à anneau décalé  
con anillo acodado  
con anelli sfalsati



**324-134-13**

**smooth jaw**  
glattes Maul  
mors lisse  
boca lisa  
morso liscio

**HALSEY**  
13 cm/5 1/8"



**324-144-13**

**0,4 mini profile**  
Miniprofil  
profil mini  
perfil mini  
profilo mini



**324-147-13**

**0,4 mini profile**  
Miniprofil  
profil mini  
perfil mini  
profilo mini

**NEIVERT**  
13 cm/5 1/8"



**324-147-13L**

**L for left-handed**  
für Linkshänder  
pour la main gauche  
para zurdo  
per mancini



**BAUMGARTNER**

12,5 cm/5"	<b>324-154-12</b>
14 cm/5 1/2"	<b>324-154-14</b>



**CRILE WOOD**

15 cm/6"	<b>324-160-15</b>
18 cm/7"	<b>324-160-18</b>
20 cm/8"	<b>324-160-20</b>
23 cm/9"	<b>324-160-23</b>



**CRILE WOOD**

15 cm/6"	<b>324-164-15</b>
15 cm/6"	<b>324-164-15L</b>
18 cm/7"	<b>324-164-18</b>
20 cm/7 3/4"	<b>324-164-20</b>

**0,4 mini profile**  
Miniprofil  
profil mini  
perfil mini  
profilo mini

**L for left-handed**  
für Linkshänder  
pour la main gauche  
para zurdo  
per mancini

with TC inserts  
 Mit TC-Einsätzen  
 A mors TC  
 Con bocas TC  
 Con morso TC



**BABY CRILE WOOD**  
 15 cm/6"

**324-168-15**



**MAYO HEGAR**

14 cm/5½"	<b>324-184-14</b>	
16 cm/6¼"	<b>324-184-16</b>	<b>324-186-16</b>
18 cm/7"	<b>324-184-18</b>	<b>324-186-18</b>
20 cm/8"	<b>324-184-20</b>	
24 cm/9½"	<b>324-184-24</b>	
26 cm/10¼"	<b>324-184-26</b>	
30 cm/12"	<b>324-184-30</b>	

**0,5 regular profile**  
 Normalprofil  
 profil regulaire  
 perfil regular  
 profilo regolare

**smooth jaw**  
 glattes Maul  
 mors lisse  
 boca lisa  
 morso liscio



**DE BAKEY**  
 16,5 cm/6½"

**324-212-16**



**DE BAKEY**

15 cm/6"	<b>324-214-15</b>
18 cm/7"	<b>324-214-18</b>
20 cm/8"	<b>324-214-20</b>
24 cm/9½"	<b>324-214-23</b>
26 cm/10¼"	<b>324-214-26</b>
31 cm/12½"	<b>324-214-31</b>
37 cm/14¾"	<b>324-214-37</b>

**0,4 mini profile**  
 Miniprofil  
 profil mini  
 perfil mini  
 profilo mini

with TC inserts  
Mit TC-Einsätzen  
A mors TC  
Con bocas TC  
Con morso TC



**delicate pattern**  
schlankes Modell  
modèle gracile  
modelo delgado  
modello fino

**DE BAKEY**

16 cm/6¼"	<b>324-216-16</b>
18 cm/7"	<b>324-216-18</b>
21 cm/8¼"	<b>324-216-21</b>
23 cm/9"	<b>324-216-23</b>

**0,2  
micro profile**  
Mikroprofil  
profil micro  
perfil micro  
profilo micro



**delicate pattern**  
schlankes Modell  
modèle gracile  
modelo delgado  
modello fino

**DE BAKEY**  
16,5 cm/6½"

**324-216-31**

**0,4  
mini profile**  
Miniprofil  
profil mini  
perfil mini  
profilo mini



**RYDER**

13 cm/5"	<b>324-224-13</b>
15 cm/6"	<b>324-224-15</b>
18 cm/7"	<b>324-224-18</b>
20 cm/8"	<b>324-224-20</b>
23 cm/9"	<b>324-224-23</b>
26 cm/10¼"	<b>324-224-26</b>

**0,4  
mini profile**  
Miniprofil  
profil mini  
perfil mini  
profilo mini



**RYDER VASCULAR**

**slender pattern**  
schlankes Modell  
modèle gracile  
modelo delgado  
modello gracile

12,5 cm/5"	<b>324-226-13</b>
15,5 cm/6"	<b>324-226-15</b>
17,5 cm/7"	<b>324-226-18</b>
20 cm/8"	<b>324-226-20</b>
22,5 cm/9"	<b>324-226-23</b>
26 cm/10¼"	<b>324-226-26</b>

**0,3  
micro profile**  
Mikroprofil  
profil micro  
perfil micro  
profilo micro

**with TC inserts**  
Mit TC-Einsätzen  
A mors TC  
Con bocas TC  
Con morso TC



**0,4 mini profile**  
Miniprofil  
profil mini  
perfil mini  
profilo mini

**JULIAN**  
20 cm/8"

**324-247-20**



**0,5 regular profile**  
Normalprofil  
profil regulaire  
perfil regular  
profilo regolare

**TOENNIS**  
18 cm/7"

**324-364-18**



**LANGENBECK**

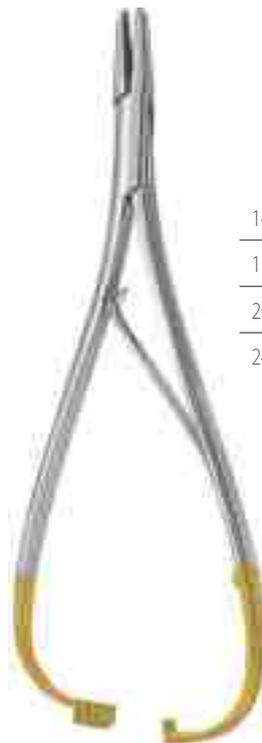
18 cm/7"	<b>324-492-18</b>
20,5 cm/8"	<b>324-492-20</b>
23 cm/9"	<b>324-492-23</b>

**0,5 regular profile**  
Normalprofil  
profil regulaire  
perfil regular  
profilo regolare



**MATHIEU**

14 cm/5½"	<b>324-370-14</b>
17 cm/6¾"	<b>324-370-17</b>
20 cm/8"	<b>324-370-20</b>
24 cm/9½"	<b>324-370-24</b>



**MATHIEU**

14 cm/5½"	<b>324-374-14</b>	<b>324-394-14</b>
17 cm/6¾"	<b>324-374-17</b>	<b>324-394-17</b>
20 cm/8"	<b>324-374-20</b>	<b>324-394-20</b>
24 cm/9½"	<b>324-374-24</b>	

**0,5 regular profile**  
Normalprofil  
profil regulaire  
perfil regular  
profilo regolare

**0,5 regular profile**  
Normalprofil  
profil regulaire  
perfil regular  
profilo regolare

**slender pattern**  
schlankes Modell  
modèle gracile  
modelo delgado  
modello gracile

# 10

## NEEDLE HOLDERS

### Micro Needle Holders

Mikro-Nadelhalter  
 Micro Porte-aiguilles  
 Micro Porta-agujas  
 Micro Port'aghi



**without catch**  
 ohne Sperre  
 sans crémaillère  
 sin cremallera  
 senza cremagliera



12 cm/4¾"	<b>324-652-12</b>	<b>324-655-12</b>	<b>324-661-12</b>
15 cm/6"	<b>324-654-15</b>	<b>324-655-15</b>	
18,5 cm/7¼"	<b>324-656-18</b>	<b>324-653-18</b>	

**with catch**  
 mit Sperre  
 avec crémaillère  
 con cremallera  
 con cremagliera



12 cm/4¾"	<b>324-662-12</b>	<b>324-667-12</b>	<b>324-661-12</b>
15 cm/6"	<b>324-664-15</b>	<b>324-667-15</b>	
18,5 cm/7¼"	<b>324-666-18</b>	<b>324-667-18</b>	
23 cm/9"		<b>324-667-23</b>	



324-650-10



324-651-10

**without catch**  
 ohne Sperre  
 sans crémaillère  
 sin cremallera  
 senza cremagliera

**BARRAQUER**  
 10 cm/4"



324-636-10



324-637-10

**with catch**  
 mit Sperre  
 avec crémaillère  
 con cremallera  
 con cremagliera

**BARRAQUER-TROUTMAN**  
 10 cm/4"



324-672-09



324-673-09

**without catch**  
 ohne Sperre  
 sans crémaillère  
 sin cremallera  
 senza cremagliera

**CASTROVIEJO**  
 9 cm/3½"



324-674-09



324-675-09

**with catch**  
 mit Sperre  
 avec crémaillère  
 con cremallera  
 con cremagliera

**CASTROVIEJO**  
 9 cm/3½"

# 10

## NEEDLE HOLDERS

### Micro Needle Holders

Mikro-Nadelhalter

Micro Porte-aiguilles

Micro Porta-agujas

Micro Port'aghi



324-670-14



324-671-14

**with catch**  
mit Sperre  
avec crémaillère  
con cremallera  
con cremagliera

**CASTROVIEJO**  
14 cm/5½"



324-676-14



324-677-14

**without catch**  
ohne Sperre  
sans crémaillère  
sin cremallera  
senza cremagliera

**CASTROVIEJO**  
14 cm/5½"

with TC inserts  
 Mit TC-Einsätzen  
 A mors TC  
 Con bocas TC  
 Con morso TC


**CASTROVIEJO-JACOBSON**

**with catch**  
 mit Sperre  
 avec crémaillère  
 con cremallera  
 con cremagliera



14,5 cm/5¾"	<b>324-674-14</b>	<b>324-675-14</b>	<b>324-678-14</b>	<b>324-679-14</b>	<b>324-682-14</b>	<b>324-683-14</b>
18 cm/7"	<b>324-674-18</b>	<b>324-675-18</b>	<b>324-678-18</b>	<b>324-679-18</b>	<b>324-682-18</b>	<b>324-683-18</b>
21 cm/8¼"	<b>324-674-21</b>	<b>324-675-21</b>	<b>324-678-21</b>	<b>324-679-21</b>	<b>324-682-21</b>	<b>324-683-21</b>
23 cm/9"	<b>324-674-23</b>	<b>324-675-23</b>	<b>324-678-23</b>	<b>324-679-23</b>		

**smooth jaw**  
 glattes Maul  
 mors lisse  
 boca lisa  
 morso liscio

**0,3  
 micro profile**  
 Mikroprofil  
 profile micro  
 perfil micro  
 profilo micro

**diamond-coated jaw**  
 diamantiertes Maul  
 mors diamanté  
 boca diamantada  
 morso diamantato

**without catch**  
 ohne Sperre  
 sans crémaillère  
 sin cremallera  
 senza cremagliera



14,5 cm/5¾"	<b>324-694-14</b>	<b>324-695-14</b>	<b>324-698-14</b>	<b>324-699-14</b>	<b>324-696-14</b>	<b>324-697-14</b>
18 cm/7"	<b>324-694-18</b>	<b>324-695-18</b>	<b>324-698-18</b>	<b>324-699-18</b>	<b>324-696-18</b>	<b>324-697-18</b>
21 cm/8¼"	<b>324-694-21</b>	<b>324-695-21</b>	<b>324-698-21</b>	<b>324-699-21</b>	<b>324-696-21</b>	<b>324-697-21</b>
23 cm/9"	<b>324-694-23</b>	<b>324-695-23</b>	<b>324-698-23</b>	<b>324-699-23</b>		

**smooth jaw**  
 glattes Maul  
 mors lisse  
 boca lisa  
 morso liscio

**0,3  
 micro profile**  
 Mikroprofil  
 profile micro  
 perfil micro  
 profilo micro

**diamond-coated jaw**  
 diamantiertes Maul  
 mors diamanté  
 boca diamantada  
 morso diamantato

with TC inserts  
Mit TC-Einsätzen  
A mors TC  
Con bocas TC  
Con morso TC



TOLEDO

**with catch**  
mit Sperre  
avec crémaillère  
con cremallera  
con cremagliera



14,5 cm/5¾"	324-774-14	324-775-14	324-778-14	324-779-14	324-782-14	324-783-14
18 cm/7"	324-774-18	324-775-18	324-778-18	324-779-18	324-782-18	324-783-18
21 cm/8¼"	324-774-21	324-775-21	324-778-21	324-779-21	324-782-21	324-783-21
23 cm/9"	324-774-23	324-775-23	324-778-23	324-779-23	324-782-23	324-783-23

**smooth jaw**  
glattes Maul  
mors lisse  
boca lisa  
morso liscio

**0,3  
micro profile**  
Mikroprofil  
profilo micro  
perfil micro  
profilo micro

**diamond-coated jaw**  
diamantiertes Maul  
mors diamanté  
boca diamantada  
morso diamantato

**without catch**  
ohne Sperre  
sans crémaillère  
sin cremallera  
senza cremagliera



14,5 cm/5¾"	324-794-14	324-795-14	324-798-14	324-799-14	324-796-14	324-797-14
18 cm/7"	324-794-18	324-795-18	324-798-18	324-799-18	324-796-18	324-797-18
21 cm/8¼"	324-794-21	324-795-21	324-798-21	324-799-21	324-783-21	324-797-21
23 cm/9"	324-794-23	324-795-23	324-798-23	324-799-23	324-783-23	324-797-23

**smooth jaw**  
glattes Maul  
mors lisse  
boca lisa  
morso liscio

**0,3  
micro profile**  
Mikroprofil  
profilo micro  
perfil micro  
profilo micro

**diamond-coated jaw**  
diamantiertes Maul  
mors diamanté  
boca diamantada  
morso diamantato

**Ergonomic handle  
Sophisticated design  
Sure and fine feeling in hand, well balanced  
Easy to clean - No more dirt catching knurlings**

Ergonomischer Griff  
Ansprechendes Design  
Sichere und feinfühlig Handhabung  
Leichtes reinigen – keine schmutzanfalligen Riefelungen

poignée ergonomique  
aspect attrayant  
une manipulation délicate et en sécurité  
la précision du geste opératoire  
un nettoyage et une décontamination aisés

mango ergonomico  
diseño llamativo  
manipulación seguro y delicado  
limpieza fácil - las estriadas no son susceptible a la suciedad

manico ergonomico  
Design appariscente  
maneggio sicuro e delicato  
purificazione facile - non incline de la sporcizia

with TC inserts  
 Mit TC-Einsätzen  
 A mors TC  
 Con bocas TC  
 Con morso TC



**CASTROVIEJO**  
13 cm/5"

**with lock**  
 mit Sperre  
 avec serrure  
 con cierre  
 con fermo

**324-684-13**

**smooth jaw**  
 glattes Maul  
 mors lisse  
 boca lisa  
 morso liscio



**324-686-13**

**0,4 mini profile**  
 Miniprofil  
 profil mini  
 perfil mini  
 profilo mini



**without catch**  
 ohne Sperre  
 sans crémaillère  
 sin cremallera  
 senza cremagliera

16 cm/6¼"

**324-690-16**

**324-691-16**

18,5 cm/7¼"

**324-690-18**

**324-691-18**



16 cm/6¼"

**324-693-16**

**with diamond coating**  
 mit Diamantbeschichtung  
 avec couche diamantée  
 con recubrimiento de diamante  
 con rivestimento di diamante



**YASARGIL**

16,5 cm/6½"



**324-711-16**

20 cm/8"

**324-710-20**

**324-711-20**

22,5 cm/9"

**324-710-22**

**324-711-22**

24 cm/9½"

**324-711-24**



**JACOBSON**  
18 cm/7"



**324-720-18**

**without catch**  
ohne Sperre  
sans crémaillère  
sin cremallera  
senza cremagliera



**324-722-18**

**with catch**  
mit Sperre  
avec crémaillère  
con cremallera  
con cremagliera

**Light-weight round handles, well balanced**

Leichtmetall Rundgriffe, gut ausbalanciert  
Manches ronds en métal léger, bien équilibrés  
Mangos redondos de metal ligero, bien equilibrados  
Manici rotondi metallo leggero, equilibrio perfetto



18,5 cm/7¼"

**without catch**  
ohne Sperre  
sans crémaillère  
sin cremallera  
senza cremagliera



15 cm/6"

**324-870-15**

**324-871-15**

18 cm/7"

**324-870-18**

**324-871-18**

**with catch**  
mit Sperre  
avec crémaillère  
con cremallera  
con cremagliera



15 cm/6"

**324-872-15**

**324-873-15**

18 cm/7"

**324-872-18**

**324-873-18**

**Titanium**

 Titan  
 Titane  
 Titanio  
 Titanio

**diamond-coated jaw**

 diamantiertes Maul  
 mors diamanté  
 boca diamantada  
 morso diamantato


	11 x 0,8 mm			
18 cm/7"	<b>324-920-18</b>			<b>324-923-18</b>
21 cm/8¼"	<b>324-920-21</b>	<b>324-921-21</b>	<b>324-922-21</b>	<b>324-923-21</b>

**with catch**

 mit Sperre  
 avec crémaillère  
 con cremallera  
 con cremagliera

**without catch**

 ohne Sperre  
 sans crémaillère  
 sin cremallera  
 senza cremagliera

**Most of micro instruments are available with Ceramin-Coating on request.**

Mikro-Instrumente auf Anfrage auch mit Keramik-Beschichtung lieferbar.

La plupart des micro-instruments sont disponibles avec Ceramin-révétement sur demande.

La mayoría de las microempresas instrumentos están disponibles con recubrimiento Ceramin-a petición de ésta.

La maggior parte delle micro strumenti sono disponibili con rivestimento Ceramin-su richiesta.

## **Bone Surgery, Drills**

Orthopädie, Bohrrapparate

Chirurgie osseuse, Perforateurs

Cirurgía ósea, Perforadores

Chirurgia ossea, Perforatori



**FRIEDMAN MINI**  
12 cm/5"

**432-101-12**



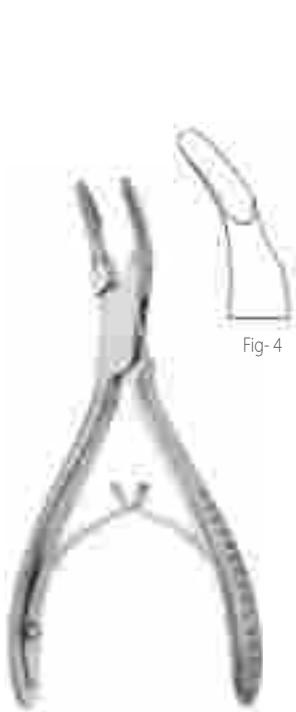
**FRIEDMAN**  
14 cm/5½"

**432-101-14**



**MEAD**  
16,5 cm/6½"

**432-109-16**



**CLEVELAND**  
14 cm/5½"

**432-103-14**



**CLEVELAND**  
17 cm/6¾"

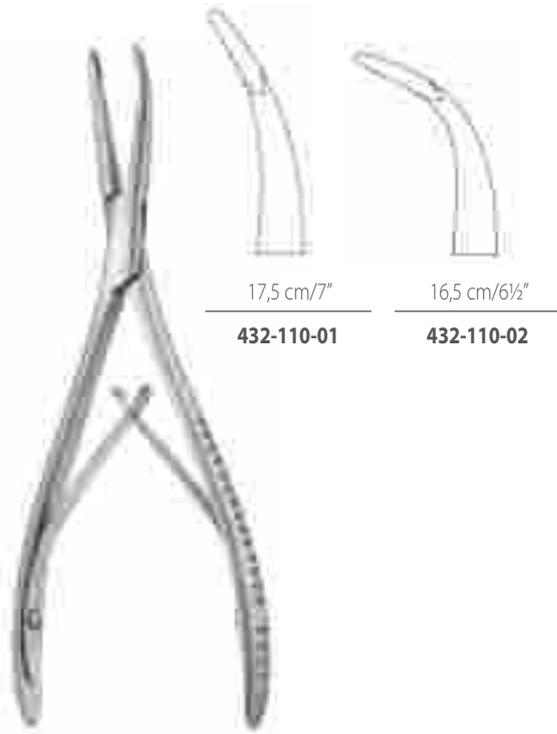
**432-105-17**



**MEAD**  
16 cm/6¼"

**432-107-16**

## BONE SURGERY, DRILLS



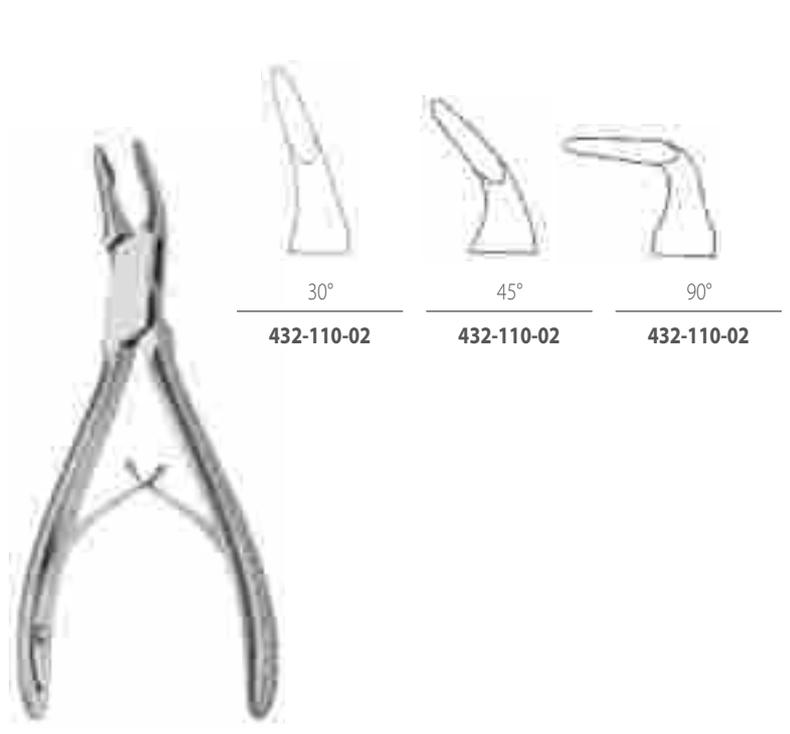
17,5 cm/7"

432-110-01

16,5 cm/6½"

432-110-02

**STELLBRINK**



30°

432-110-02

45°

432-110-02

90°

432-110-02

**BLUMENTHAL**

15,5 cm/6¼"

**Synovectomy Rongeurs**

Synovektomie zangen

Synovectomie pinces-gouges

Synovectomy pinzas-gubias

Synovectomy pinze sgorbie



1,2 mm

432-120-13

1,2 mm

432-121-13

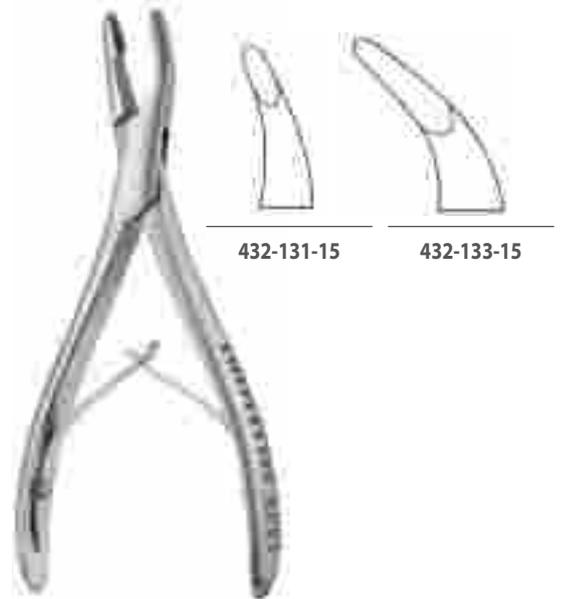
2,0 mm

432-122-13

2,0 mm

432-123-13

13 cm/5"



432-131-15

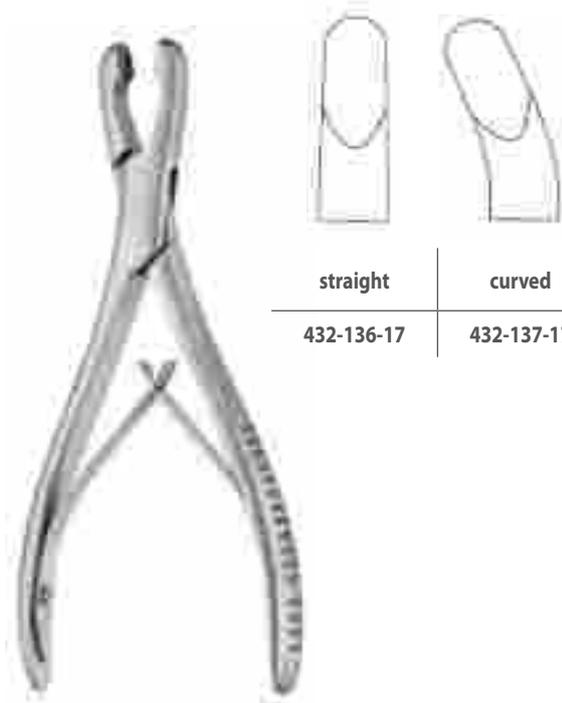
432-133-15

**LUER**

15 cm/6"



**BANE-HARTMANN**  
 18 cm/7"  
 432-135-18



**LUER**  
 17 cm/6¾"

straight	curved
432-136-17	432-137-17



**ADSON**  
 20 cm/8"

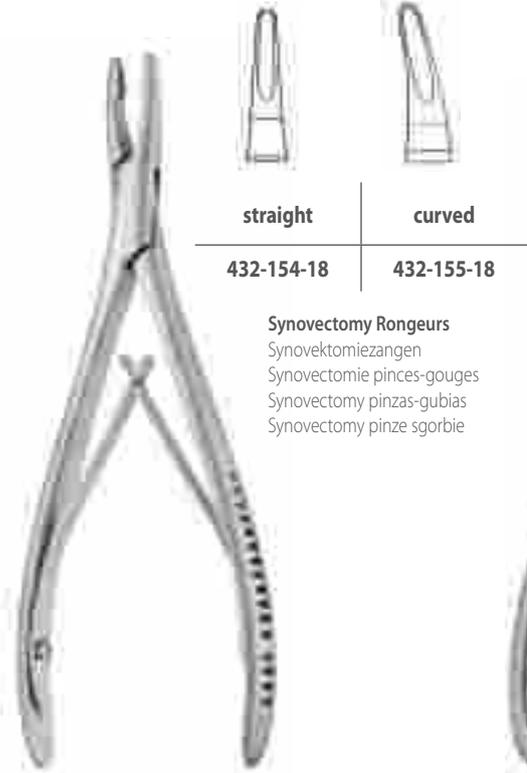


straight	curved
432-142-20	432-143-20



**OLIVECRONA**  
 20 cm/8"  
 432-147-20

## BONE SURGERY, DRILLS



straight

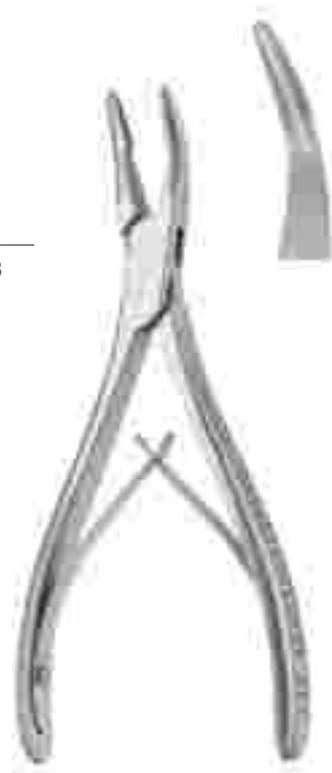
432-154-18

curved

432-155-18

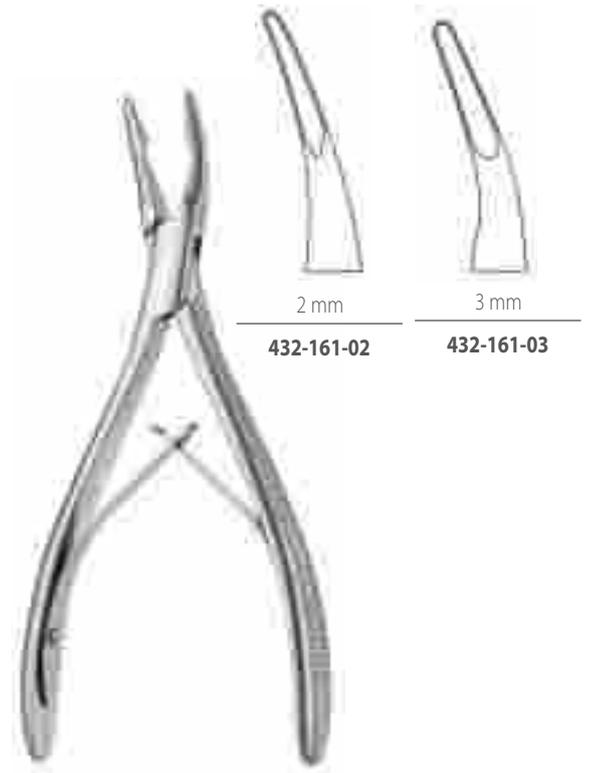
**Synovectomy Rongeurs**  
 Synovektomie zangen  
 Synovectomie pinces-gouges  
 Synovectomy pinzas-gubias  
 Synovectomy pinze sgorbie

**LEMPERT**  
 18,5 cm/7¼"



**BEYER**  
 18 cm/7"

432-159-18



2 mm

432-161-02

3 mm

432-161-03

**BEYER**  
 17 cm/6¾"

**angled to side**  
 seitwärts abgewinkelt  
 coudés latéralement  
 acodadas hacia el lado  
 angolata lateralmente



**BACON**  
 20 cm/8"

432-165-20



**JANSEN**  
 19 cm/7½"

432-167-19



**GULEKE**  
 20,5 cm/8¼"

432-169-20



**angled to side**  
 seitwärts abgewinkelt  
 coudés latéralement  
 acodadas hacia el lado  
 angolata lateralmente

**TROTTER**  
20,5 cm/8"

432-175-20



**NORTHFIELD**  
21 cm/8¼"

432-176-21



**PENNYBAKER**  
20 cm/8"

432-178-20



**MAYFIELD**  
17 cm/6¾"

432-197-17



**Synovectomy Rongeurs**  
 Synovektomie zangen  
 Synovectomie pince-gouges  
 Synovectomy pinzas-gubias  
 Synovectomy pinze sgorbie

**BEYER**  
18 cm/7"

432-201-18



**ZAUFAL JANSEN**  
18 cm/7"

432-205-18

## BONE SURGERY, DRILLS



**BOEHLER**  
15 cm/5¾"



1,7 mm

432-209-15



2 mm

432-210-15



2 mm

432-211-15



3 mm

432-212-15



3 mm

432-213-15



**MARQUARDT**  
20 cm/8"

432-215-20



**RUSKIN**  
18 cm/7"

432-216-18



432-217-18



**RUSKIN**  
23 cm/9"

432-218-23

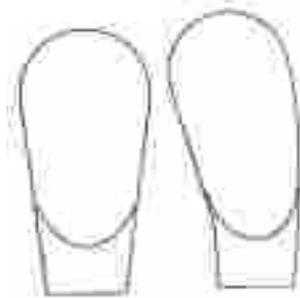


**RUSKIN**  
23 cm/9"

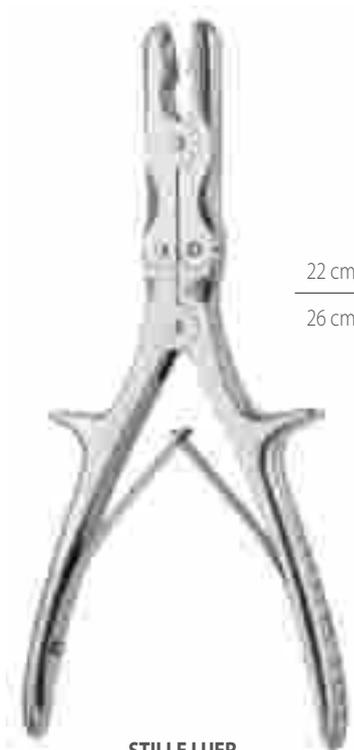
432-219-23



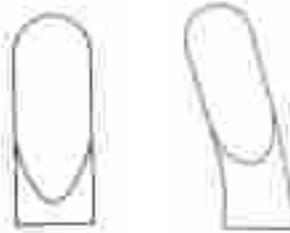
**STILLE LUER**



23 cm/9"	<b>432-228-23</b>	<b>432-229-23</b>
26,5 cm/10½"	<b>432-228-27</b>	<b>432-229-27</b>



**STILLE LUER**



22 cm/8¾"	<b>432-230-22</b>	<b>432-231-22</b>
26 cm/10¼"	<b>432-230-26</b>	<b>432-231-26</b>



**STILLE LUER**  
23 cm/ 9"

**432-235-23**

## BONE SURGERY, DRILLS



**STILLE RUSKIN**

23 cm/9"

432-237-23



**SAUERBRUCH**

31 cm/12¼"



432-241-30



432-243-30



**LEKSELL (STILLE)**  
23 cm/9"



8 mm

**432-245-23**



4 mm

**432-247-23**



**LEKSELL**  
23 cm/9"



5 mm

**432-249-05**



8 mm

**432-249-08**



**FRYKHOLM**  
24 cm/9½"

**432-255-24**

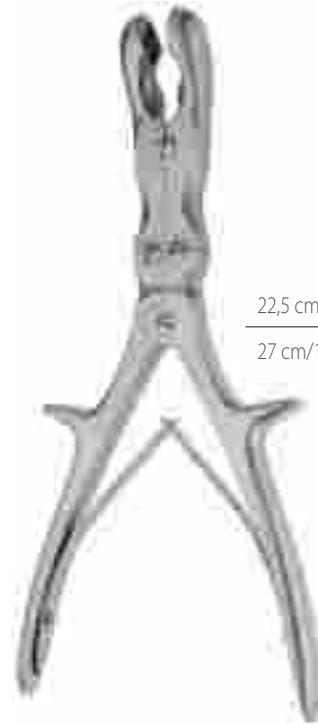
## BONE SURGERY, DRILLS



**ECHLIN**  
23 cm/9"



	straight
2 mm	<b>432-259-02</b>
3 mm	<b>432-259-03</b>
4 mm	<b>432-259-04</b>



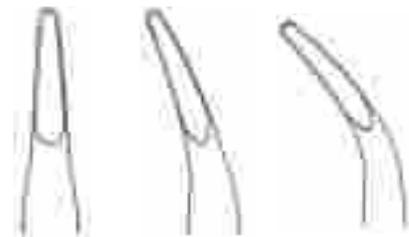
**SEMB**



22,5 cm/9"	<b>432-261-22</b>
27 cm/10¾"	<b>432-261-27</b>



**SMITH PETERSEN**  
24 cm/9½"



	straight	slightly curved	strong curved
3 mm	<b>432-262-24</b>	<b>432-263-24</b>	<b>432-265-24</b>

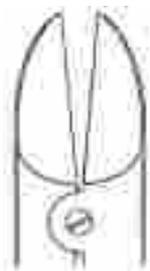


**MCINDOE**  
19 cm/7½"

432-284-17



**RUSKIN LISTON**  
18,5 cm/7¼"



432-286-18



432-289-18



**STILLE HORSLEY**  
27 cm/10½"

432-293-27



**VOLKMANN**  
 17 cm/6¾"



**oval, with hollow handel**  
 oval, mit Hohlheft  
 ovale, avec manche creux  
 ovalada, con mango hueco  
 ovata, con manico vuoto

	<b>oval, hollow handel</b>
Fig. 0000	<b>432-469-96</b>
Fig. 000	<b>432-469-97</b>
Fig. 00	<b>432-469-98</b>
Fig. 0	<b>432-470-00</b>
Fig. 1	<b>432-470-01</b>
Fig. 2	<b>432-470-02</b>
Fig. 3	<b>432-470-03</b>
Fig. 4	<b>432-470-04</b>
Fig. 5	<b>432-470-05</b>
Fig. 6	<b>432-470-06</b>

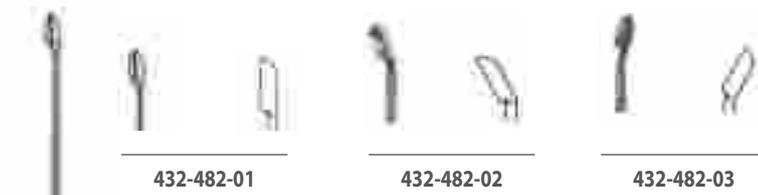


**BRUNS**  
 23 cm/9"



**oval, solid**  
 oval, massiv  
 ovale, solide  
 ovalada, maciza  
 ovata, solida

	<b>oval, solid</b>
Fig. 000	<b>432-480-97</b>
Fig. 00	<b>432-480-98</b>
Fig. 0	<b>432-481-00</b>
Fig. 1	<b>432-481-01</b>
Fig. 2	<b>432-481-02</b>
Fig. 3	<b>432-481-03</b>
Fig. 4	<b>432-481-04</b>
Fig. 5	<b>432-481-05</b>
Fig. 6	<b>432-481-06</b>



**SCOVILLE**  
25 cm/9¾"

oval, with hollow handel  
oval, mit Hohlheft  
ovale, avec manche creux  
ovalada, con mango hueco  
ovala, con manico vuoto



**SIMON**  
24 cm/9½"

oval, with hollow handel  
oval, mit Hohlheft  
ovale, avec manche creux  
ovalada, con mango hueco  
ovala, con manico vuoto

	oval, hollow handel
Fig. 1	<b>432-485-01</b>
Fig. 2	<b>432-485-02</b>
Fig. 3	<b>432-485-03</b>
Fig. 4	<b>432-485-04</b>
Fig. 5	<b>432-485-05</b>
Fig. 6	<b>432-485-06</b>



**DAUBENSPECK**  
20 cm/8"

Fig. 00	<b>432-486-99</b>
Fig. 0	<b>432-487-00</b>
Fig. 1	<b>432-487-01</b>
Fig. 2	<b>432-487-02</b>

## BONE SURGERY, DRILLS



**LEMPERT**  
 17,5 cm/6¾"

Fig. 0	<b>432-490-10</b>
Fig. 00	<b>432-490-20</b>
Fig. 000	<b>432-490-30</b>
Fig. 0000	<b>432-490-40</b>
Fig. 00000	<b>432-490-50</b>



**HALLE**  
 21 cm/8¼"

Fig. 1	<b>432-491-01</b>
Fig. 2	<b>432-491-02</b>
Fig. 3	<b>432-491-03</b>

**oval, malleable shaft, with hollow handle**  
 oval, biegsamer Schaft, mit Hohlheft  
 ovale, avec tige malléable, avec manche creux  
 ovalada, vástago maleable, con mango hueco  
 ovata, con gambo malleabile, con manico vuoto



**VOLKMANN**

		
13 cm/5"	16 cm/6¼"	20 cm/8"
<b>432-492-13</b>	<b>432-492-16</b>	<b>432-492-20</b>



**VOLKMANN**

			
13 cm/5"	14 cm/5½"	17 cm/6¾"	20 cm/8"
<b>432-494-13</b>	<b>432-494-14</b>	<b>432-494-17</b>	<b>432-494-20</b>

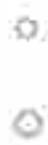


**WILLIGER**  
13,5 cm/5¼"

		
Fig. 00/0	Fig. 0/1	Fig. 1/2
<b>432-496-00</b>	<b>432-496-01</b>	<b>432-496-12</b>



**MARTINI**  
13,5 cm/5¼"

		
Fig. 00/0	Fig. 0/1	Fig. 1/2
<b>432-498-00</b>	<b>432-498-01</b>	<b>432-498-12</b>



21 cm/8¼"  
**432-502-21**

## BONE SURGERY, DRILLS

**Spinal Fusion Curettes**  
Spinal-Fusionsküretten  
Arthrodèse curettes  
Fusión espinal cucharillas  
Fusione spinale curette



**COBB**  
28 cm/11"



Fig. 000	<b>432-501-00</b>
Fig. 00	<b>432-502-00</b>
Fig. 0	<b>432-503-00</b>
Fig. 1	<b>432-503-01</b>
Fig. 2	<b>432-503-02</b>
Fig. 3	<b>432-503-03</b>
Fig. 4	<b>432-503-04</b>
Fig. 5	<b>432-503-05</b>
Fig. 6	<b>432-503-06</b>



**VOLKMANN**  
27 cm/10¾"



Fig. 00	<b>432-504-00</b>
Fig. 0	<b>432-504-10</b>
Fig. 1	<b>432-504-01</b>
Fig. 2	<b>432-504-02</b>
Fig. 3	<b>432-504-03</b>
Fig. 4	<b>432-504-04</b>



**CASPAR**  
22 cm/8¾"



Fig. 000	3,6 mm	<b>432-504-97</b>
Fig. 00	4,4 mm	<b>432-504-98</b>
Fig. 0	5,2 mm	<b>432-505-00</b>

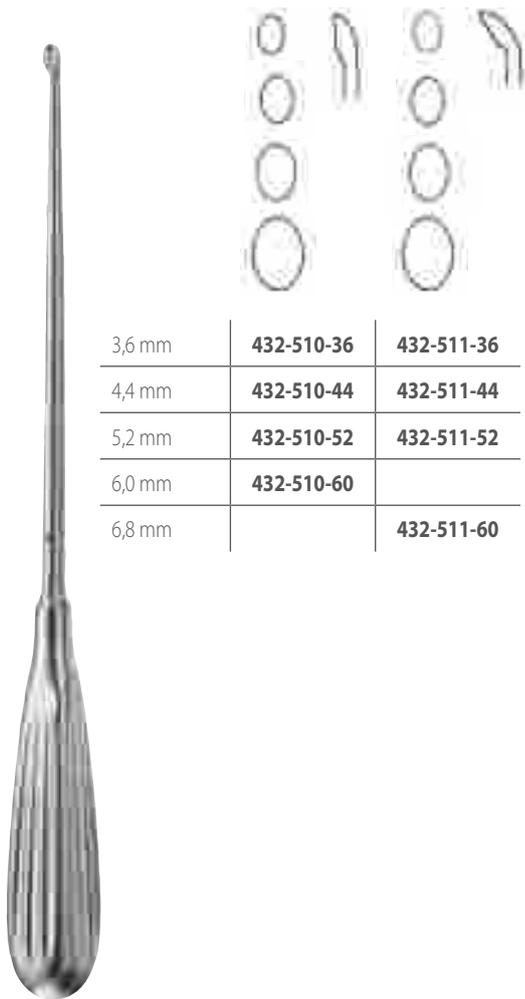


**CASPAR**  
22 cm/8¾"

Fig. 000	3,6 mm	<b>432-505-97</b>
Fig. 00	4,4 mm	<b>432-505-98</b>
Fig. 0	5,2 mm	<b>432-506-00</b>

**Bone Currettes**

Scharfe Löffel  
Curettes tranchantes  
Cucharillas cortantes  
Curette taglianti



3,6 mm	<b>432-510-36</b>	<b>432-511-36</b>
4,4 mm	<b>432-510-44</b>	<b>432-511-44</b>
5,2 mm	<b>432-510-52</b>	<b>432-511-52</b>
6,0 mm	<b>432-510-60</b>	
6,8 mm		<b>432-511-60</b>

25 cm/9¾"



3,0 mm	<b>432-513-03</b>
4,0 mm	<b>432-513-04</b>
5,0 mm	<b>432-513-05</b>

**BUSHE**  
25 cm/10"



**EPSTEIN**  
20 cm/8"

Fig. 0	3,0 mm	<b>432-514-10</b>
Fig. 00	2,5 mm	<b>432-514-20</b>
Fig. 000	2,0 mm	<b>432-514-30</b>

## BONE SURGERY, DRILLS



**toothed**  
 gezahnt  
 denté  
 dentadas  
 dentata

**CASPAR**  
 22 cm/8¾"



4,0 mm	<b>432-518-04</b>
5,0 mm	<b>432-518-05</b>
6,0 mm	<b>432-518-05</b>



**toothed**  
 gezahnt  
 denté  
 dentadas  
 dentata

**CASPAR**  
 27 cm/10¾"



4,0 mm	<b>432-519-03</b>
5,0 mm	<b>432-519-04</b>



**toothed**  
 gezahnt  
 denté  
 dentadas  
 dentata

**CASPAR**  
 25 cm/10"



4,0 mm	<b>432-520-04</b>
5,0 mm	<b>432-520-05</b>

**Spinal Fusion Currettes**

Spinal-Fusionsküretten  
 Arthrodèse curettes  
 Fusión espinal cucharillas  
 Fusione spinale curette

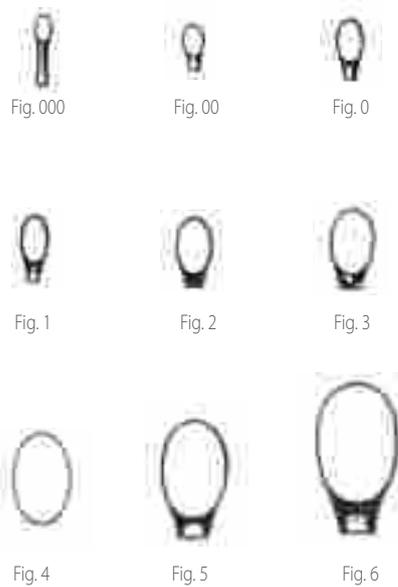


Fig. 000	<b>432-521-97</b>	<b>432-524-97</b>	<b>432-529-97</b>
Fig. 00	<b>432-521-98</b>	<b>432-524-98</b>	<b>432-529-98</b>
Fig. 0	<b>432-522-00</b>	<b>432-525-00</b>	<b>432-530-00</b>
Fig. 1	<b>432-522-01</b>	<b>432-525-01</b>	<b>432-530-01</b>
Fig. 2	<b>432-522-02</b>	<b>432-525-02</b>	<b>432-530-02</b>
Fig. 3	<b>432-522-03</b>	<b>432-525-03</b>	<b>432-530-03</b>
Fig. 4	<b>432-522-04</b>	<b>432-525-04</b>	<b>432-530-04</b>
Fig. 5	<b>432-522-05</b>	<b>432-525-05</b>	<b>432-530-05</b>
Fig. 6	<b>432-522-06</b>	<b>432-525-06</b>	<b>432-530-06</b>

**straight**  
 gerade  
 droits  
 rectas  
 rette

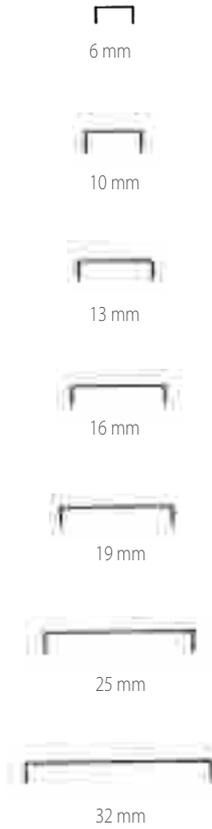
**curved**  
 gebogen  
 courbes  
 curvas  
 curve

**straight**  
 gerade  
 droits  
 rectas  
 rette

## BONE SURGERY, DRILLS



28 cm/11"



6 mm/1/4"	<b>432-550-06</b>	<b>432-551-06</b>
10 mm/ "	<b>432-550-10</b>	<b>432-551-10</b>
13 mm/1/2"	<b>432-550-13</b>	<b>432-551-13</b>
16 mm/ "	<b>432-550-16</b>	<b>432-551-16</b>
19 mm/3/4"	<b>432-550-19</b>	<b>432-551-19</b>
25 mm/1"	<b>432-550-25</b>	<b>432-551-25</b>
32 mm/1 1/4"	<b>432-550-32</b>	<b>432-551-32</b>

**straight**

gerade  
droits  
rectas  
rette

**curved**

gebogen  
courbes  
curvas  
curve

**Gouge for taking grafts from the ribs**

Hohlmeißel zur Knorpelentnahme aus der Rippe

Gouge pour la prise de greffons les côtes

Gubias para la toma de injertos de las costillas

Sgorbie per l'adozione di innesti dalla costola



10 mm

**432-629-10**

15 mm

**432-629-15**

**WALTER**

20 cm/8"



ø 3 mm	<b>432-584-03</b>
ø 5 mm	<b>432-584-05</b>
ø 8 mm	<b>432-584-08</b>

**CASPAR**  
20 cm/8"



ø 12 mm	<b>432-586-12</b>
ø 14 mm	<b>432-586-14</b>
ø 16 mm	<b>432-586-16</b>

**CASPAR**  
20 cm/8"



**Bone graft holder and impactor**  
 Knochenspanhalter und Einsetzinstrument  
 Osseuse et titulaire de frappe  
 Injerto óseo titular y impactador  
 Trapianto osseo e titolare di simulazione

**CASPAR**  
22 cm/8¾"

**432-585-02**



ø 3 x 8 mm	<b>432-588-03</b>
ø 4 x 10 mm	<b>432-588-04</b>
ø 5 x 15 mm	<b>432-588-05</b>
ø 6 x 20 mm	<b>432-588-06</b>

**SYPERT**  
29 cm/11½"

# 11

**Osteotomes, Chisels, Gouges**  
 Osteotome, Flachmeißel, Hohlmeißel  
 Ostéotomes, Ciseaux-burins, Gouges  
 Osteótomos, Cinceles, Gubias  
 Osteotomi, Scalpelli, Sgorbie

## BONE SURGERY, DRILLS



6 mm	<b>432-630-06</b>
8 mm	<b>432-630-08</b>
10 mm	<b>432-630-10</b>
12 mm	<b>432-630-12</b>
15 mm	<b>432-630-15</b>
20 mm	<b>432-630-20</b>
25 mm	<b>432-630-25</b>
30 mm	<b>432-630-30</b>
80 mm	<b>432-630-80</b>

**STILLE**  
20 cm/8"



10 mm	<b>432-631-10</b>
12 mm	<b>432-631-12</b>
15 mm	<b>432-631-15</b>
20 mm	<b>432-631-20</b>
25 mm	<b>432-631-25</b>

**STILLE**  
20 cm/8"



4 mm	<b>432-632-04</b>
6 mm	<b>432-632-06</b>
8 mm	<b>432-632-08</b>
10 mm	<b>432-632-10</b>
12 mm	<b>432-632-12</b>
15 mm	<b>432-632-15</b>
20 mm	<b>432-632-20</b>
25 mm	<b>432-632-25</b>
30 mm	<b>432-632-30</b>

**STILLE**  
20 cm/8"



6 mm	<b>432-633-06</b>
8 mm	<b>432-633-08</b>
10 mm	<b>432-633-10</b>
12 mm	<b>432-633-12</b>
15 mm	<b>432-633-15</b>
20 mm	<b>432-633-20</b>
25 mm	<b>432-633-25</b>

**STILLE**  
20 cm/8"



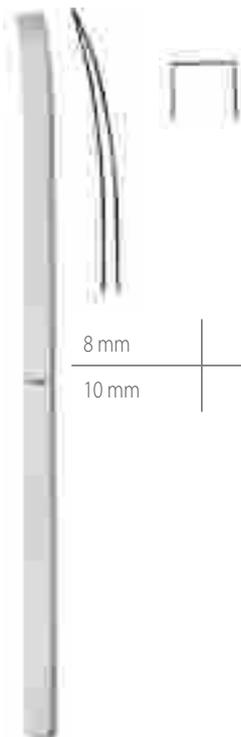
**LAMBOTTE**  
24 cm/9½"

	straight
4 mm	<b>432-650-04</b>
6 mm	<b>432-650-06</b>
8 mm	<b>432-650-08</b>
10 mm	<b>432-650-10</b>
13 mm	<b>432-650-13</b>
15 mm	<b>432-650-15</b>
18 mm	<b>432-650-18</b>
20 mm	<b>432-650-20</b>
25 mm	<b>432-650-25</b>
30 mm	<b>432-650-30</b>
38 mm	<b>432-650-38</b>
44 mm	<b>432-650-44</b>
50 mm	<b>432-650-50</b>



**LAMBOTTE**  
24 cm/9½"

	curved
8 mm	<b>432-651-08</b>
10 mm	<b>432-651-10</b>
13 mm	<b>432-651-13</b>
18 mm	<b>432-651-18</b>
20 mm	<b>432-651-20</b>
25 mm	<b>432-651-25</b>
30 mm	<b>432-651-30</b>
38 mm	<b>432-651-38</b>
44 mm	<b>432-651-44</b>
50 mm	<b>432-651-50</b>



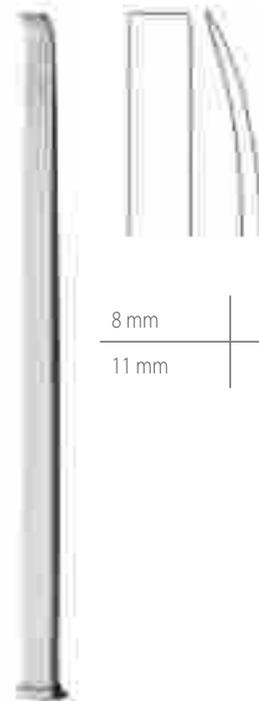
**NIEDERDELLMANN**  
25 cm/9¾"

8 mm	<b>432-657-08</b>
10 mm	<b>432-657-10</b>



**COTTLE**  
18 cm/7"

4 mm	<b>546-454-04</b>
7 mm	<b>546-454-07</b>
9 mm	<b>546-454-09</b>
12 mm	<b>546-454-12</b>



**OBWEGESSER**  
23,5 cm/9¼"

8 mm	<b>548-626-08</b>
11 mm	<b>548-626-11</b>

**BONE SURGERY,**



5,5 mm	<b>432-661-01</b>
9,0 mm	<b>432-661-02</b>

**Gouges for scoliosis operations**  
 Hohlmeißel für Skoliose Operationen  
 Gouge pour les opérations de scoliose  
 Gubias para las operaciones de escoliosis  
 Sgorbie per le operazioni di scoliosi

**ZIELKE**  
23 cm/9"



6 mm	<b>432-662-06</b>
8 mm	<b>432-662-08</b>
11 mm	<b>432-662-11</b>
16 mm	<b>432-662-16</b>

**Lamina gouge, cranked**  
 Wirbelsäulenmeißel, bajonettförmig  
 Gouge pour la colonne vertébrale  
 Gubias para la columna vertebral  
 Sgorbie per la colonna vertebrale

23,5 cm/9¼"



5 mm	<b>432-660-05</b>
7 mm	<b>432-660-07</b>
10 mm	<b>432-660-10</b>
15 mm	<b>432-660-15</b>
20 mm	<b>432-660-20</b>
25 mm	<b>432-660-25</b>
30 mm	<b>432-660-30</b>

**LEXER**  
22 cm/8¾"



5 mm	<b>432-661-05</b>
7 mm	<b>432-661-07</b>
10 mm	<b>432-661-10</b>
15 mm	<b>432-661-15</b>
20 mm	<b>432-661-20</b>
25 mm	<b>432-661-25</b>
30 mm	<b>432-661-30</b>

**LEXER**  
22 cm/8¾"

### Spongiosa Gouges

Spongiosaentnahmemeißel  
Ciseaux-burinx pour spongiosa  
Cinceles de esponjosa  
ScalPELLI per spongiosa



5 mm	<b>432-663-05</b>
10 mm	<b>432-663-10</b>
15 mm	<b>432-663-15</b>

**with plastic handle**  
mit Kunststoffgriff  
avec manche en matière plastiue  
con mango plástico  
con manico in plastica

**LEXER**  
25 cm/9<sup>3</sup>/<sub>4</sub>"



5 mm	<b>432-663-55</b>
10 mm	<b>432-663-60</b>
15 mm	<b>432-663-65</b>

**with plastic handle**  
mit Kunststoffgriff  
avec manche en matière plastiue  
con mango plástico  
con manico in plastica

**LEXER**  
25 cm/9<sup>3</sup>/<sub>4</sub>"



4 mm	<b>432-664-04</b>
6 mm	<b>432-664-06</b>
8 mm	<b>432-664-08</b>
10 mm	<b>432-664-10</b>
12 mm	<b>432-664-12</b>

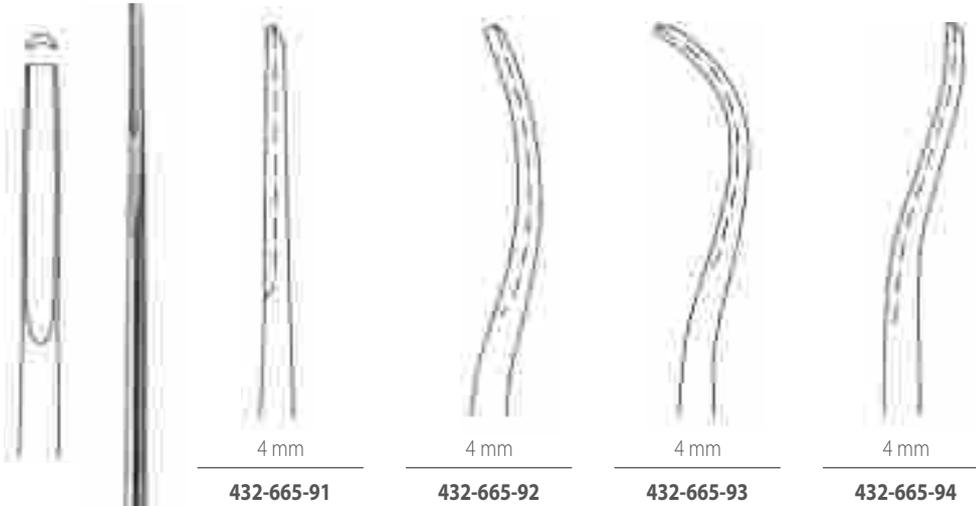
**LEXER-MINI**  
18 cm/7"



4 mm	<b>432-665-04</b>
6 mm	<b>432-665-06</b>
8 mm	<b>432-665-08</b>
10 mm	<b>432-665-10</b>
12 mm	<b>432-665-12</b>

**LEXER-MINI**  
18 cm/7"

## BONE SURGERY, DRILLS



4 mm  
432-665-91

4 mm  
432-665-92

4 mm  
432-665-93

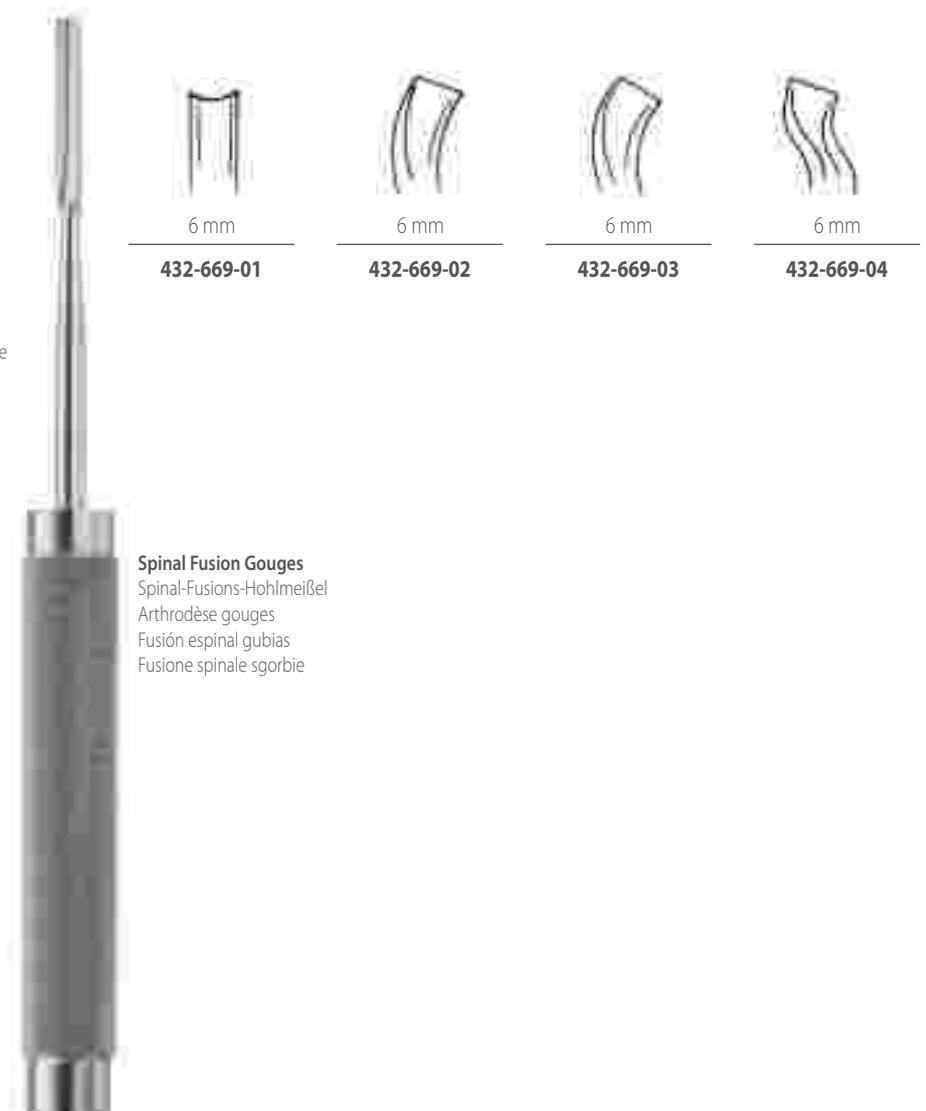
4 mm  
432-665-94



**Spinal Fusion Gouges**  
 Spinal-Fusions-Hohlmeißel  
 Arthrodèse gouges  
 Fusión espinal gubias  
 Fusione spinale sgorbie

with plastic handle  
 mit Kunststoffgriff  
 avec manche en matière plastiue  
 con mango plástico  
 con manico in plastica

**COBB**  
 28 cm/11"



6 mm  
432-669-01

6 mm  
432-669-02

6 mm  
432-669-03

6 mm  
432-669-04

**Spinal Fusion Gouges**  
 Spinal-Fusions-Hohlmeißel  
 Arthrodèse gouges  
 Fusión espinal gubias  
 Fusione spinale sgorbie

**COBB**  
 28 cm/11"



**COBB**  
28 cm/11"



10 mm	<b>432-720-10</b>
13 mm	<b>432-720-13</b>
19 mm	<b>432-720-19</b>



**COBB**  
25 cm/10"



10 mm	<b>432-722-10</b>
13 mm	<b>432-722-13</b>
19 mm	<b>432-722-19</b>
25 mm	<b>432-722-25</b>

**semi-sharp**  
 halbscharf  
 semitranchante  
 semi agudo  
 semiacuto

## BONE SURGERY, DRILLS



ø 35 mm

**complete with:**  
1 pair of metal disks 432-687-01 and  
1 pair of plastic disks 432-687-02 and  
1 wrench

komplett mit:  
1 Paar Metallbacken 432-687-01 und  
1 Paar Kunststoffbacken 432-687-02 und  
1 Schlüssel

complet avec:  
1 paire de disques métalliques 432-687-01  
1 paire de disques en plastique 432-687-02  
1 clé

completo con:  
1 par de discos de metal 432-687-01  
1 par de discos de plástico 432-687-02  
1 llave

completo di:  
1 paio di dischi di metallo 432-687-01  
1 paio di dischi di plastica 432-687-02  
1 chiave

**WAGNER**  
24,5 cm/9¾"

**432-687-00**

215 g

**432-687-01**

1 metal disk, flat  
1 metal disk, convex

1 Metallbacke, plan  
1 Metallbacke, convex

1 disque de métal, à plat  
1 disque de métal, convexe

1 disco de metal, plana  
1 disco de metal, convexo

1 disco di metallo, piate  
1 disco di metallo, convessa

30 g

**432-687-02**

1 plastic disk, flat  
1 plastic disk, convex

1 Kunststoffbacke, plan  
1 Kunststoffbacke, convex

1 disque en plastique, à plat  
1 disque en plastique, convexe

1 disco de plástico, plana  
1 disco de plástico, convexo

1 disco di plastica, piate  
1 disco di plastica, convessa



ø 27 mm  
140 g

**HAJEK**  
22 cm/8¾"

**432-687-22**



ø 30 mm  
300 g

plane / convex  
plan / konvex  
plan / convexe  
plano / convexo  
plano / convesso

**COTTLE**  
19 cm/7½"

**432-689-24**



ø 25 mm  
135 g

**Spare facings to 432-691-14, pair**  
Ersatzbacken zu 432-691-14, Paar  
Joues de rechange pour 432-691-14, paire  
Frentes de repuesto para 432-691-14, par  
Guancie di ricambio per 432-691-14, paio

**432-691-99**

18,5 cm/7¼"

**432-691-14**



ø 20 mm  
140 g

**WILLIGER**  
16,5 cm/6½"

**432-695-14**



ø 80 x 60 mm  
400 g

Plastic, solid  
Kunststoff, massiv  
Plastic, solid  
matière plastique, solide  
materia plastica, piena

**STEINBACH**  
24 cm/9½"

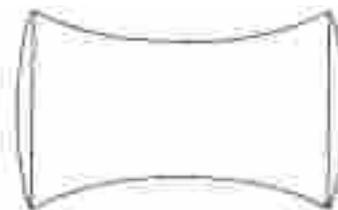
**432-695-40**



lead filled  
bleigefüllt  
replissage de plomb  
relleno de plomo  
ripieno di piombo

**WILLIGER**  
24 cm/9½"

**432-694-40**



ø 26 mm  
300 g=10oz

**432-694-30**

ø 28 mm  
340 g=12oz

**432-694-34**

ø 30 mm  
400 g=14oz

**432-694-40**



ø 22 mm  
155 g

lead filled  
bleigefüllt  
replissage de plomb  
relleno de plomo  
ripieno di piombo

19 cm/7½"

**432-696-19**

## BONE SURGERY, DRILLS



ø 27 mm  
320 g

**MEAD**

17 cm/6¾"

**432-696-32**



**Spare Facings (pair)**

Ersatzbacken (Paar)  
Plaques de rechange (paire)  
Tapas de repuesto (par)  
Placche di ricambio (paio)

**plastic (nylon)**

Kunststoff (Nylon)  
matière plastique (nylon)  
plástico (nilón)  
plastica (nilon)

**432-697-02**



ø 42 mm  
250 g

**432-698-25**

**made of plastic  
without lead**

aus Kunststoff  
ohne Blei

en matière plastique  
sans plomb

de plástico  
sin plomo

in plastica  
senza piombo

26 cm/10¼"

ø 42 mm  
400 g

**432-698-40**

**made of plastic  
with lead filling**

aus Kunststoff  
mit Bleifüllung

en matière plastique  
remplissage de plomb

de plástico  
con relleno de plomo

in plastica  
ripieno di piombo



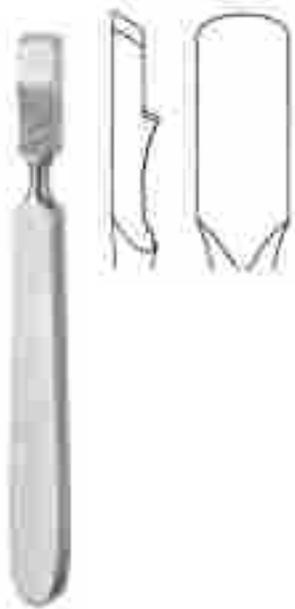
ø 25 mm  
240 g

18,5 cm/7"

**432-701-18**

**with one smooth and one  
rough surface**

mit einer flachen und einer  
aufgerauhten Fläche



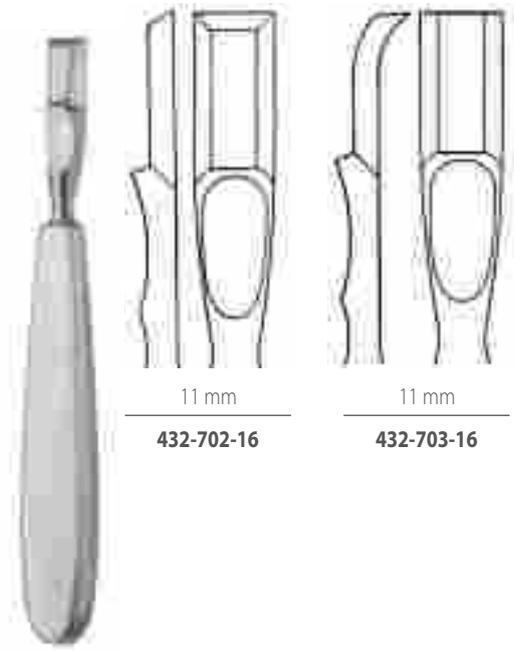
**FARABEU**  
15 cm/5¾"

**432-702-15**



**FARABEU**  
15 cm/5¾"

**432-703-15**



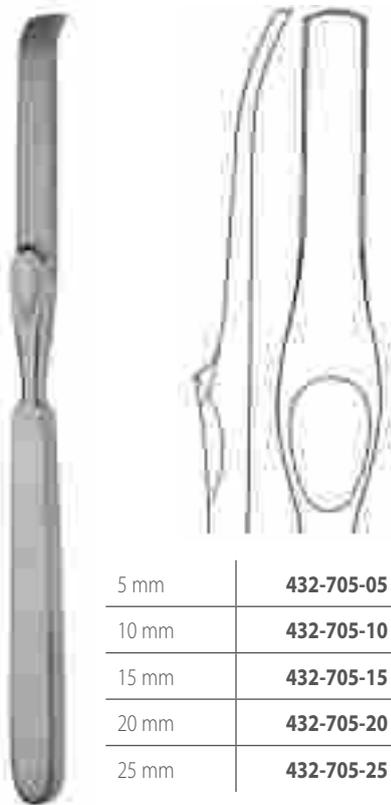
11 mm

**432-702-16**

11 mm

**432-703-16**

**FARABEU - COLLIN**  
16 cm/6¼"



5 mm	<b>432-705-05</b>
10 mm	<b>432-705-10</b>
15 mm	<b>432-705-15</b>
20 mm	<b>432-705-20</b>
25 mm	<b>432-705-25</b>

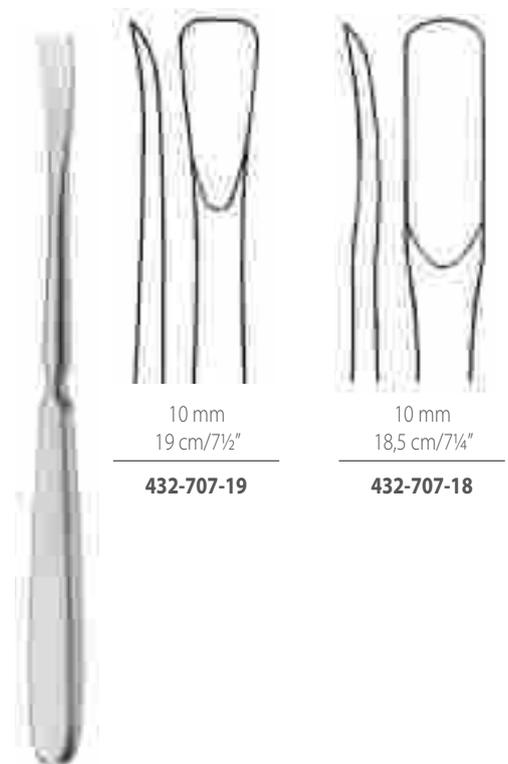
**LAMBOTTE**  
21 cm/8¼"



11 mm

**432-708-19**

**MCKISSOCK**  
19,5 cm/7¾"



10 mm  
19 cm/7½"

**432-707-19**

10 mm  
18,5 cm/7¼"

**432-707-18**

**KRÄMER**

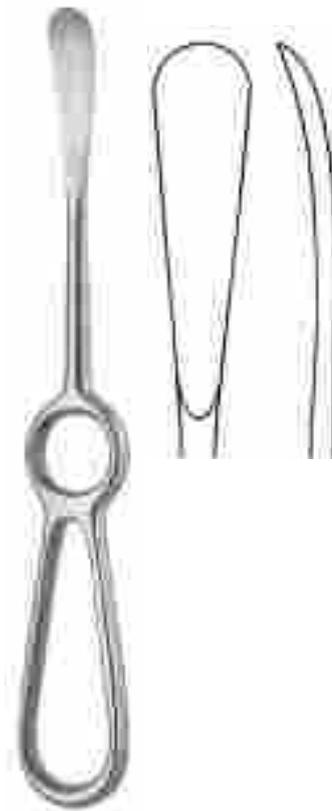
**BONE SURGERY, DRILLS**



11 mm

**432-709-18**

**SEDILLOT**  
18,5 cm/7"



**SEDILLOT**  
21 cm/8¼"

**432-709-21**



**LANGENBECK**  
18 cm/7"

**432-711-18**



**LANGENBECK**

solid  
massiv  
solide  
macizo  
solido



16 mm  
19 cm/7½"

**432-712-01**



16 mm  
19 cm/7½"

**432-712-02**



12 mm  
18,5 cm/7¼"

**432-712-03**



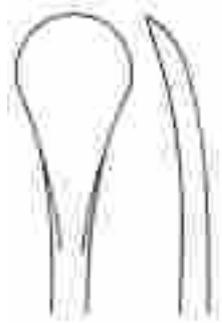
12 mm  
18,5 cm/7¼"

**432-712-04**



**HOEN**

**solid**  
massiv  
solide  
macizo  
solido



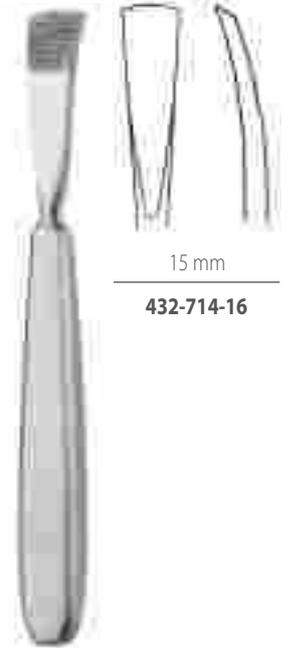
7 mm	16 cm 6¼"	<b>432-712-10</b>
15 mm	18,5 cm 7¼"	<b>432-712-11</b>
20 mm	19 cm 7½"	<b>432-712-12</b>



**WILLIGER**  
16 cm 6¼"



5 mm  
**432-713-16**



**JANSEN**  
16,5 cm 6½"



15 mm  
**432-714-16**



17 cm 6¾"

**with hollow handle**  
mit Hohlheft  
avec manche creux  
con mango hueco  
con manico vuoto



6 mm  
**432-715-06**



8 mm  
**432-715-08**



**JOSEPH**  
16 cm 6¼"



4 mm  
**432-716-16**

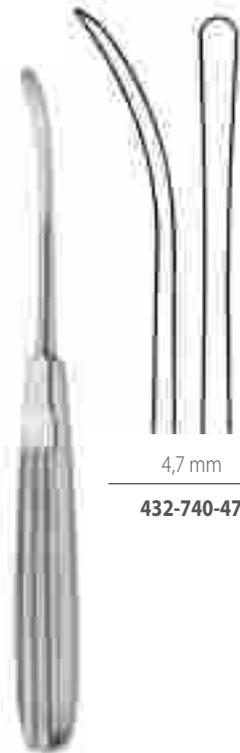


**BUECHS**  
19 cm 7½"



9,5 mm  
**432-719-19**

## BONE SURGERY, DRILLS

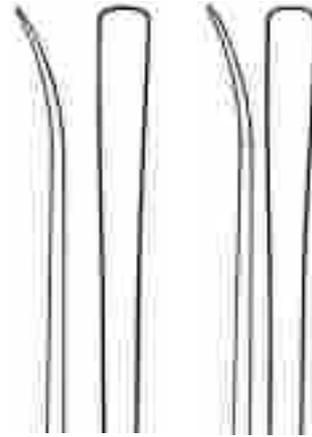


**LANDOLT**  
17,5 cm/7"

4,7 mm  
**432-740-47**



**CASPAR**  
18 cm/7"

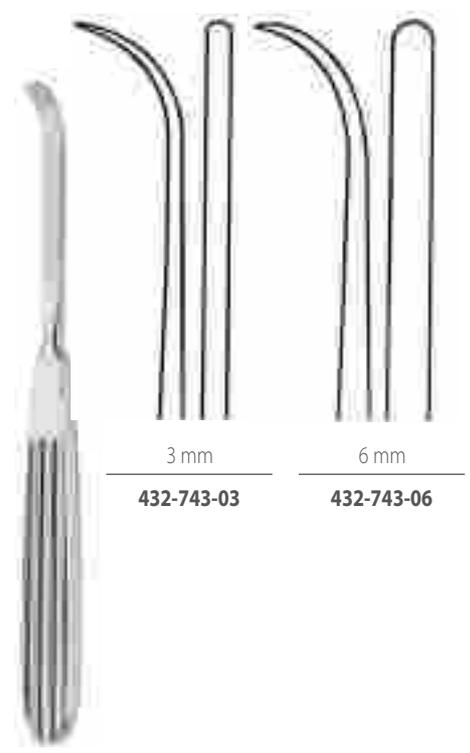


6,2 mm  
**432-741-62**

**sharp**  
scharf  
aiguë  
aguda  
acuta

6,2 mm  
**432-742-62**

**blunt**  
stumpf  
mousse  
roma  
smusso



3 mm  
**432-743-03**

6 mm  
**432-743-06**

17 cm/6¾"



**CASPAR**  
20,5 cm/8"



**432-744-01**

**432-744-02**

Vertebral body dissectors, usable for loosening the posterior longitudinal ligament and removal of disk fragments and osteophytes

Wirbelkörperdissektoren, hilfreich zum Lösen des posterioren Längsbandes und zur Entfernung von Bandscheibenfragmenten und Osteophyten

Dissecteurs corps vertébral, utilisable pour le relâchement postérieur ligament longitudinal et l'élimination des fragments de disque et osteophytes

Dissectors cuerpo vertebral, utilizable para soltar el ligamento longitudinal posterior y la eliminación de fragmentos de disco y osteophytes

Dissectors corpo vertebrale, utilizzabile per allentare il legamento longitudinale posteriore e la rimozione di frammenti disco e osteophytes



**ADSON**  
5 mm

**432-730-16**

**PENNYBAKER**  
6 mm

**432-732-16**

16,5 cm/6½"



**Micro Elevator**  
Mikroelevatorium  
Micro-Élévateur  
Micro Elevador  
Micro Elevatorio

16 cm/6¼"

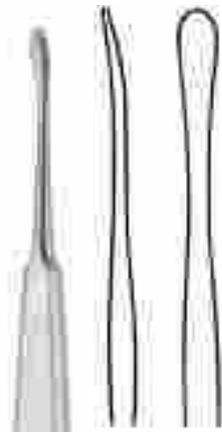
**432-746-16**



**extremely lightweight**  
extrem leicht  
extrêmement léger  
extremamente ligero  
extremamente leggero

17 cm/6¾"

**432-746-17**

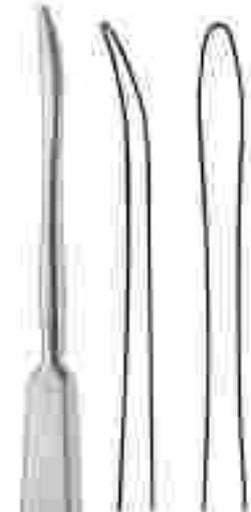


5 mm

**432-748-17**

**SEBILAU**

17 cm/6¾"

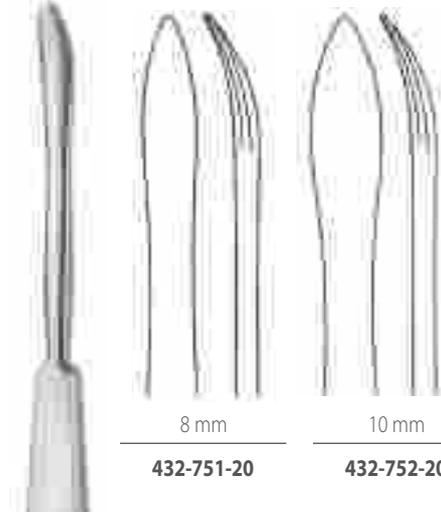


6 mm

**432-750-20**

**QUERVAIN**

20 cm/8"



8 mm

**432-751-20**

10 mm

**432-752-20**

**LANGENBECK**

20 cm/8"



**LANGENBECK**

19,5 cm/7¾"

**432-753-20**



**ADSON**

17 cm/6¾"

**432-754-17**

**432-755-17**

7 mm

**432-756-17**

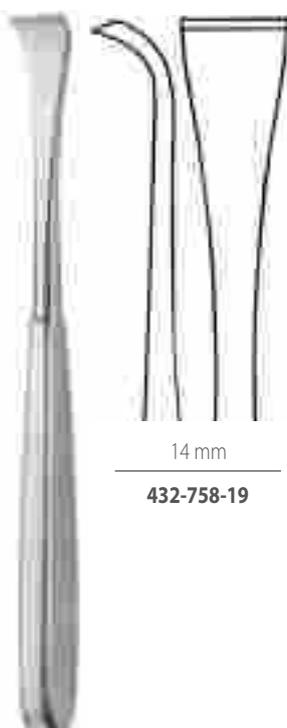
**432-757-17**

## BONE SURGERY, DRILLS



13 mm  
**432-758-17**

**SCHNEIDER**  
 17,5 cm/6¾"



14 mm  
**432-758-19**

**SCHNEIDER SAUERBR**  
 19 cm/7½"



6 mm

**432-759-06**



10 mm

**432-759-10**



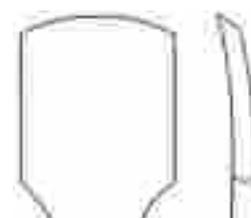
12 mm

**432-759-12**



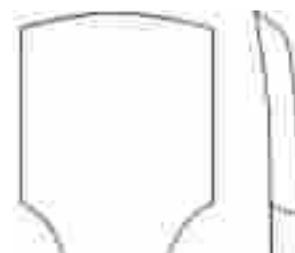
13 mm

**432-759-13**



19 mm

**432-759-19**



25 mm

**432-759-25**

6 mm



**CUSHING (LITTLE-JOKER)**  
 15 cm/6"

**432-760-15**

6 mm



**CUSHING (LITTLE-JOKER)**  
 19 cm/7½"

**432-761-19**

5 mm

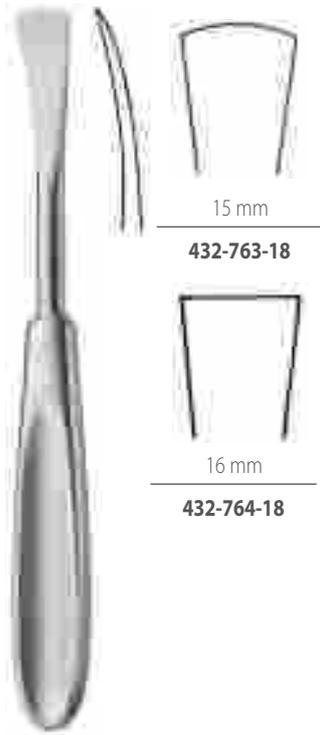


**CUSHING**  
 19,5 cm/7¾"

**432-762-19**



**KEY**  
 19 cm/7½"



**CUSHING**  
18 cm/7"

15 mm  
**432-763-18**

16 mm  
**432-764-18**



**MCKENTY**  
15 cm/6"

4 mm  
**546-410-04**

5 mm  
**546-410-05**



**SEWALL**  
20 cm/8"

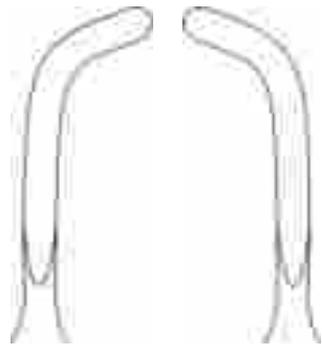
**546-436-20**



14 cm/5½"

**546-440-01**

left  
links  
gauche  
izquierda  
sinistra



**546-440-02**

right  
rechts  
droite  
derecha  
destra



**WILLIGER**  
13 cm/5"

**982-897-13**



**WILLIGER**  
17 cm/6¾"

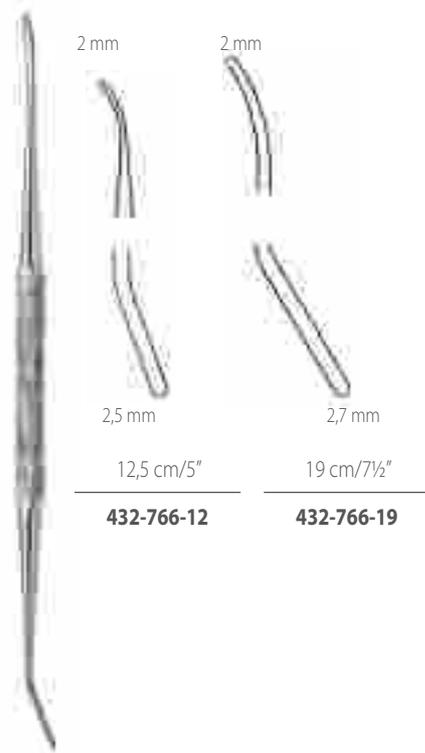
**982-897-17**



**WILLIGER**  
16 cm/6¼"

**982-897-16**

## BONE SURGERY, DRILLS



12,5 cm/5"

**432-766-12**

19 cm/7½"

**432-766-19**

**WATSON CHEYNE**



6 mm

**MCDONALD**

19 cm/7½"

**432-767-19**



**HOWARTH**

22 cm/8¾"

**432-768-21**

sharp / blunt  
scharf / stumpf  
aiguë / mousse  
aguda / roma  
acuta / smusso



4 mm

4,5 mm

**FREER**

18 cm/7"

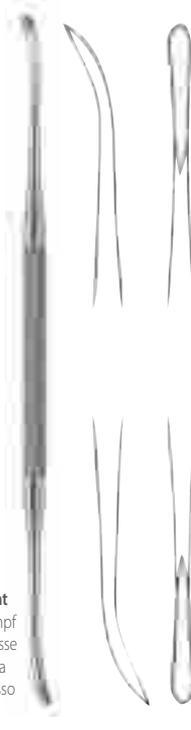
**546-409-18**



**FREER**

18,5 cm/7¼"

**546-415-18**



**FREER**

18,5 cm/7¼"

**546-416-18**

sharp / blunt  
scharf / stumpf  
aiguë / mousse  
aguda / roma  
acuta / smusso

sharp / blunt  
scharf / stumpf  
aiguë / mousse  
aguda / roma  
acuta / smusso



5 mm

**FREER**

19 cm/7½"

**546-417-19**

sharp  
scharf  
aiguë  
aguda  
acuta



6 mm

**FREER**

19 cm/7½"

**546-419-19**

blunt  
stumpf  
mousse  
roma  
smusso

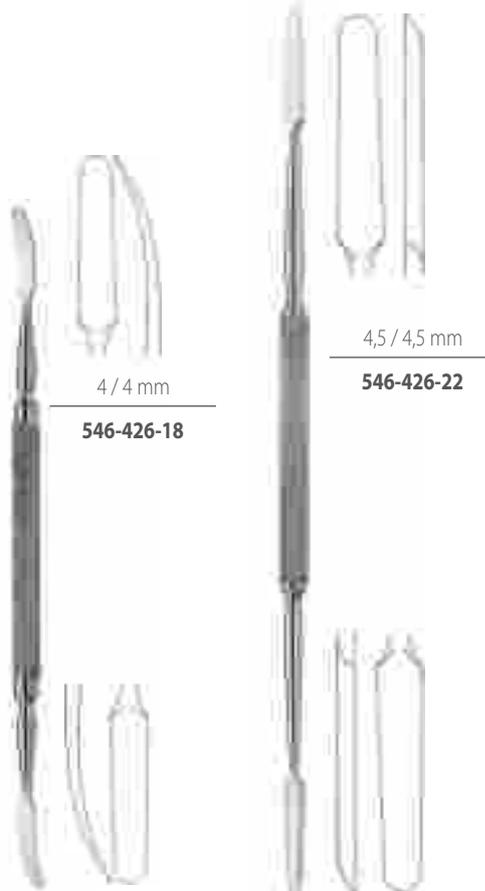
## BONE SURGERY, DRILLS



5 / 5 mm

**546-421-23**

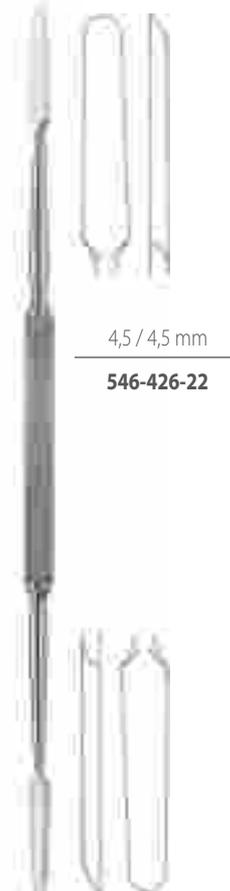
**COTTLE**  
23,5 cm/9¼"



4 / 4 mm

**546-426-18**

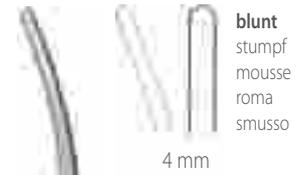
**KILLIAN**  
18 cm/7"



4,5 / 4,5 mm

**546-426-22**

**KILLIAN**  
23 cm/9"



**blunt**  
stumpf  
mousse  
roma  
smusso

4 mm



5 mm

**semi-sharp**  
halbscharf  
semitranchante  
semi agudo  
semiacuto

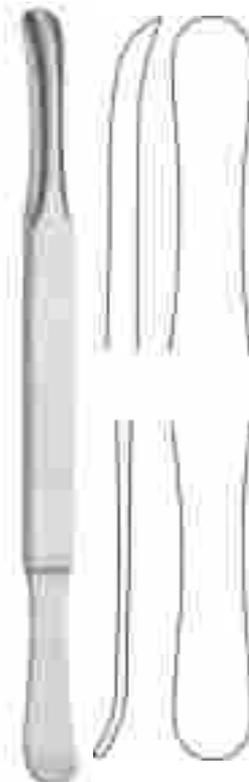
**HILL**  
22 cm/8¾"

**546-432-22**



**SELDIN**  
19 cm/7½"

**982-905-22**



**SELDIN**  
19 cm/7½"

**982-905-22**



**MOLT**  
18 cm/7"  
Nr. 9

**982-910-09**

## BONE SURGERY, DRILLS



20 cm/8"

432-774-14



20 cm/8"

432-775-14



20 cm/8"

432-776-13



18,5 cm/7¼"

432-777-13



19 cm/7½"

432-778-06



narrow  
schmal  
étroit  
estrecho  
diritto

18 cm/7"

432-779-06



18 cm/7"

432-781-06



extra narrow  
extra schmal  
très étroit  
muy estrecho  
molto stretto

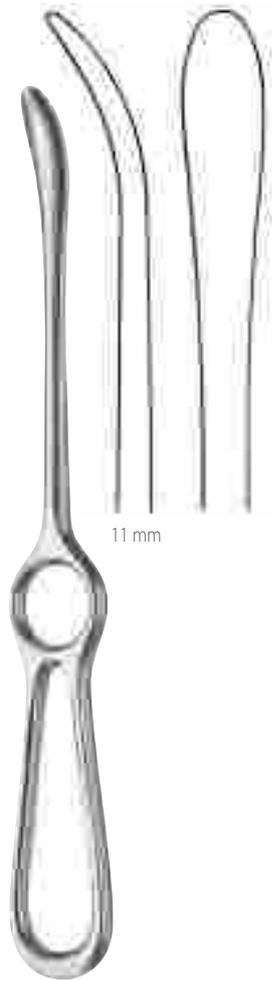
18 cm/7"

432-783-03

**Rasps, Bone Levers**

Raspeln, Knochenhebel  
Râpes, Leviers à os  
Escofinas, Elevadores para hueso  
Raspe, Elevatori per ossa

**Bone Levers**  
Knochenhebel  
Leviers à os  
Elevadores para hueso  
Elevatori per ossa



11 mm

**LANE**  
23 cm/9"

**432-835-27**

**Rasps**  
Raspeln  
Râpes  
Escofinas  
Raspe

**TC Lined**  
Mit TC-Einsätzen  
A mors TC  
Con bocas TC  
Con morso TC



**FOMON**  
20 cm/8"



Fig. 1/2

**546-522-01**



Fig. 3/4

**546-522-03**



Fig. 5/6

**546-522-05**



Fig. 7/8

**546-522-07**



Fig. 9/10

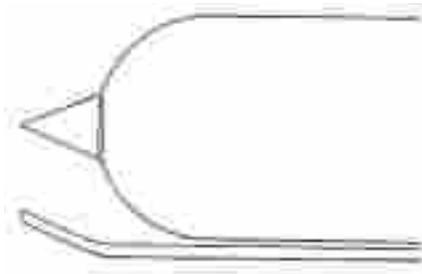
**546-522-09**

## BONE SURGERY, DRILLS



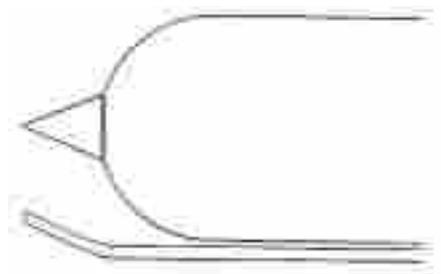
pointed end  
spitzes Ende  
pointe aiguë  
punta aguda  
punta acuta

**TAYLOR**  
16 cm/6¼"



75 x 30 mm

**432-831-16**

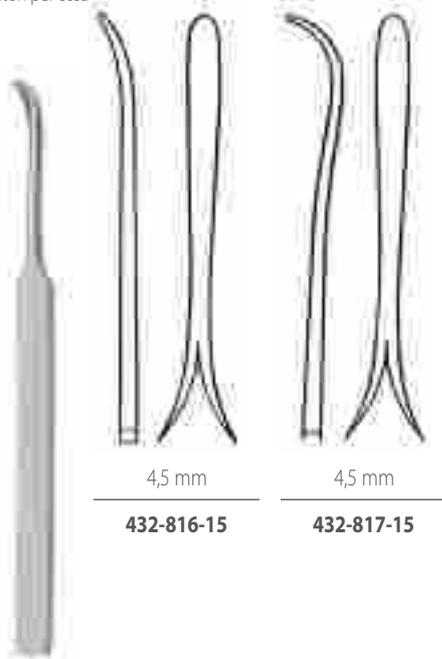


100 x 30 mm

**432-833-16**

**Bone Levers**

Knochenhebel  
Leviers à os  
Elevadores para hueso  
Elevatori per ossa



4,5 mm

**432-816-15**

4,5 mm

**432-817-15**

**KOENIG**  
15 cm/6"

**Tendon grasping forceps**

Sehnenfaßzange  
Pince pour saisir les tendons  
Pinza para agarrar tendones  
Pinze da presa per tendini



**CARROL**  
11 cm/4½"

**432-959-11**



**Hand Drill only**  
Handbohrapparate allein  
Perforateurs à main seul  
Perforadores de mano suelto  
Perforatori a mano solo

**433-210-95**

**STILLE**  
20,5 cm/8"

**complete with 9 twist drills/burrs**  
Komplett mit 9 Bohrern/Fräsern  
complete avec 9 fraises  
completo con 9 brocas  
completo con 9 punte

**433-212-25 - 433-214-16**

**433-210-20**



**STILLE SHERMAN**  
24 cm/9½"

**433-220-24**



Fig. 1  
Ø 2,5 mm

**433-212-25**

**Twist Drill**  
Spiralbohrer  
Mèche hélicoïdale  
Broca espiral  
Punta a spirale



Fig. 2  
Ø 3,0 mm

**433-212-30**

**Twist Drill**  
Spiralbohrer  
Mèche hélicoïdale  
Broca espiral  
Punta a spirale



Fig. 3  
Ø 3,5 mm

**433-212-35**

**Twist Drill**  
Spiralbohrer  
Mèche hélicoïdale  
Broca espiral  
Punta a spirale



Fig. 4  
Ø 4,0 mm

**433-212-40**

**Twist Drill**  
Spiralbohrer  
Mèche hélicoïdale  
Broca espiral  
Punta a spirale



Fig. 6  
Ø 5,0 mm

**433-214-05**

**Spherical Burr**  
Kugelfräser  
Fraise sphérique  
Fresa esf rica  
Fresa sferica



Fig. 7  
Ø 8,0 mm

**433-214-08**

**Spherical Burr**  
Kugelfräser  
Fraise sphérique  
Fresa esf rica  
Fresa sferica



Fig. 8  
Ø 12 mm

**433-214-12**

**Spherical Burr**  
Kugelfräser  
Fraise sphérique  
Fresa esf rica  
Fresa sferica



Fig. 9  
Ø 16 mm

**433-214-16**

**Spherical Burr**  
Kugelfräser  
Fraise sphérique  
Fresa esf rica  
Fresa sferica



Fig. 5  
Ø 10 mm

**433-214-10**

**Trephine**  
Tréphine  
Trépan  
Trepano



Fig. 10  
Ø 1,0 mm

**433-216-10**

**Twist Drill**  
Spiralbohrer  
Mèche hélicoïdale  
Broca espiral  
Punta a spirale



Fig. 11  
Ø 1,5 mm

**433-216-15**

**Twist Drill**  
Spiralbohrer  
Mèche hélicoïdale  
Broca espiral  
Punta a spirale



Fig. 12  
Ø 2,0 mm

**433-216-20**

**Twist Drill**  
Spiralbohrer  
Mèche hélicoïdale  
Broca espiral  
Punta a spirale

## BONE SURGERY, DRILLS



**Hand Drill only**  
Handbohrapparate allein  
Perforateurs à main seul  
Perforadores de mano suelto  
Perforatori a mano solo

**433-240-99**

**HUDSON**  
27 cm/10 3/4"

complete, with burrs no. 1 - 4 433-242-09 - 433-242-22  
and extension piece 433-246-00

komplett, mit Fräsern Fig. 1 - 4 433-242-09 - 433-242-22  
und Verlängerungsstück 433-246-00

complet, avec fraises no. 1 - 4 433-242-09 - 433-242-22 et  
pièce de rallonge 433-246-00

completo, con fresas no. 1 - 4 433-242-09 - 433-242-22 y  
pieza de extensión 433-246-00

completo, con frese fig. 1 - 4 433-242-09 - 433-242-22 e  
giunto di prolungamento 433-246-00

**433-240-27**



Fig. 1  
Ø 9 mm

**433-242-09**

**Conical Burr**  
Kegelfräser  
Fraise conique  
Fresa cónica  
Fresa cuneiforme



Fig. 2  
Ø 14 mm

**433-242-14**

**Conical Burr**  
Kegelfräser  
Fraise conique  
Fresa cónica  
Fresa cuneiforme



Fig. 3  
Ø 16 mm

**433-242-16**

**Spherical Burr**  
Kugelfräser  
Fraise spherique  
Fresa esf rica  
Fresa sferica



Fig. 4  
Ø 22 mm

**433-242-22**

**Spherical Burr**  
Kugelfräser  
Fraise spherique  
Fresa esf rica  
Fresa sferica



**CUSHING**  
Fig. 5 Ø 14 mm

**433-244-14**

**Flat Trepine**  
Flachbohrer  
Fraise plate  
Taladro plano  
Trapano piatto



Fig. 6  
Ø 2,0 mm

**433-245-00**

**Twist Drill**  
Spiralbohrer  
Mèche hélicoïdale  
Broca espiral  
Punta a spirale



**MCKENZIE**  
Fig. 7

**433-248-00**

**Burr**  
Bohrer  
Fraise  
Fresa  
Punta



**D'ERRICO**  
Fig. 8 16 mm

**433-249-00**

**Burr**  
Bohrer  
Fraise  
Fresa  
Punta



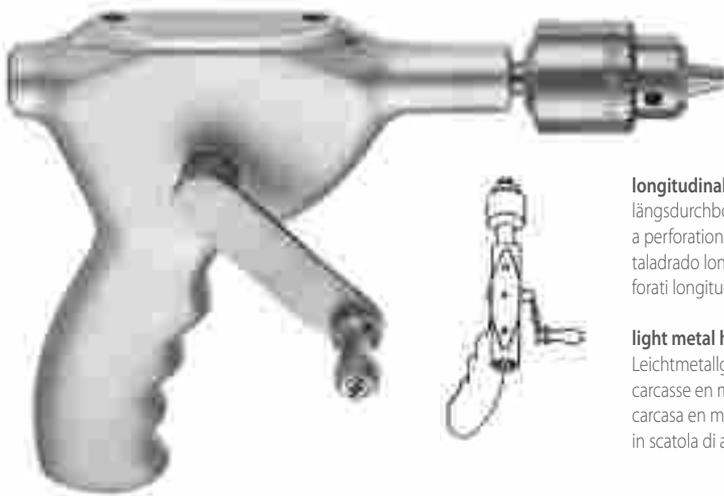
**433-246-00**

**Extension piece**

Verlängerungsstück  
Pièce de rallonge  
Pieza de prolongación  
Giunto di prolungamento



**433-246-01**



**RALK**  
16 cm/6¼"

**433-280-00**

**longitudinally bored**  
längsdurchbohrt  
à perforation axiale  
taladrado longitudinalmente  
forati longitudinalmente

**light metal housing**  
Leichtmetallgehäuse  
carcasse en metal liger  
carcasa en metal ligero  
in scatola di alluminio



**433-296-00**

**Adjustable handle**

Griff umstellbar  
Manche ajustable  
Mango ajustable  
Manico reversibile



**433-290-00**

**with adjustable handle and three-jaw chuck, with wrench,  
with axial channel for passing KIRSCHNER wires**

mit umstellbarem Handgriff und Dreibackenspannfutter, mit Schlüssel,  
mit längsdurchbohrtem Kanal für KIRSCHNER Bohrdrähte

avec manche ajustable et mandrin à trois mâchoires, avec clé,  
avec conduit longitudinal pour broches de KIRSCHNER

con mango ajustable y manguito trimandibular, con llave,  
con conducto longitudinal para pasar brocas filiformes de KIRSCHNER

con manico reversibile e mandrino a tre ganasce, con chiave,  
con cannulato per il passaggio di perforatori filiformi di KIRSCHNER

## BONE SURGERY, DRILLS



100 mm

**smooth shaft**  
glatter Schaft  
vástagó liso  
tige lisse  
asta liscia

Ø 1,0 mm	<b>433-354-10</b>
Ø 1,5 mm	<b>433-354-15</b>
Ø 2,0 mm	<b>433-354-20</b>
Ø 2,5 mm	<b>433-354-25</b>
Ø 2,8 mm	<b>433-354-28</b>
Ø 3,0 mm	<b>433-354-30</b>
Ø 3,2 mm	<b>433-354-32</b>
Ø 3,5 mm	<b>433-354-35</b>
Ø 4,0 mm	<b>433-354-40</b>
Ø 4,5 mm	<b>433-354-45</b>
Ø 5,0 mm	<b>433-354-50</b>
Ø 6,0 mm	<b>433-354-60</b>
Ø 6,3 mm	<b>433-354-63</b>
Ø 8,0 mm	<b>433-354-80</b>



**KIRSCHNER**  
16 cm/6¼"

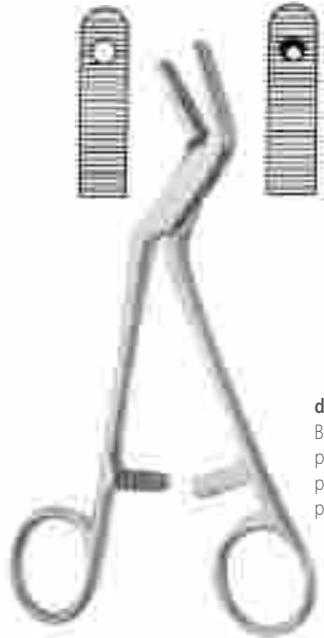
**available in packages with 10 pieces**

lieferbar in Packungen à 10 Stück  
disponibles en paquets de 10 pièces  
disponible en paquets de 10 unidades  
disponibili in confezioni da pezzi

**trocar point, round end**

trokarspitze, rundes ende  
pointe de trocart, extrémité ronde  
punta de trocar, cabo redondo  
punta a trequarti, asta rotonda

Ø 0,5 mm	<b>433-417-05</b>
Ø 0,6 mm	<b>433-417-06</b>
Ø 0,7 mm	<b>433-417-07</b>
Ø 0,8 mm	<b>433-417-08</b>
Ø 0,9 mm	<b>433-417-09</b>
Ø 1,0 mm	<b>433-417-10</b>
Ø 1,1 mm	<b>433-417-11</b>
Ø 1,2 mm	<b>433-417-12</b>
Ø 1,3 mm	<b>433-417-13</b>
Ø 1,4 mm	<b>433-417-14</b>
Ø 1,5 mm	<b>433-417-15</b>
Ø 1,6 mm	<b>433-417-16</b>
Ø 1,7 mm	<b>433-417-17</b>
Ø 1,8 mm	<b>433-417-18</b>
Ø 2,2 mm	<b>433-417-19</b>
Ø 2,0 mm	<b>433-417-20</b>
Ø 2,2 mm	<b>433-417-22</b>
Ø 2,4 mm	<b>433-417-24</b>
Ø 2,5 mm	<b>433-417-25</b>
Ø 2,7 mm	<b>433-417-27</b>
Ø 3,0 mm	<b>433-417-30</b>
Ø 4,0 mm	<b>433-417-40</b>



**drill guide**  
 Bohrerführer  
 protectrice  
 protectora  
 prott

**ADSON**  
 15 cm/6"

**433-391-15**



**TC Lined**  
 Mit TC-Einsätzen  
 A mors TC  
 Con bocas TC  
 Con morso TC

**REILL**  
 17,5 cm/7"

**433-547-17**



**Bending plier, for CASPAR trapezoidal plates for cervical spine**

Biegezange für CASPAR trapezoidal Platten für Halswirbelsäule

Pince pour courber CASPAR trapezoidal plaques pour la colonne cervicale

Gire mordazas para CASPAR trapezoidal paneles de la columna cervical

Girara a pinza per CASPAR trapezoidal pannelli per spinale cervicale

**CASPAR**  
 18 cm/7¼"

**433-660-18**



**Plate holding and applying forceps**

Plattenhaltezange

Pince pour plaque de d'arrêt

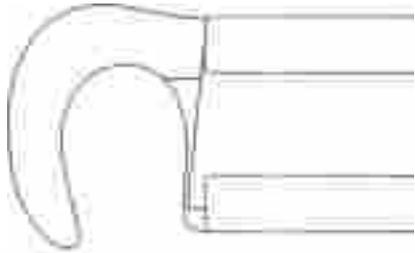
Pinza para La celebración de la Plata

Pinza per Targa di partecipazione

**CASPAR**  
 19 cm/7½"

**433-662-18**

## BONE SURGERY, DRILLS



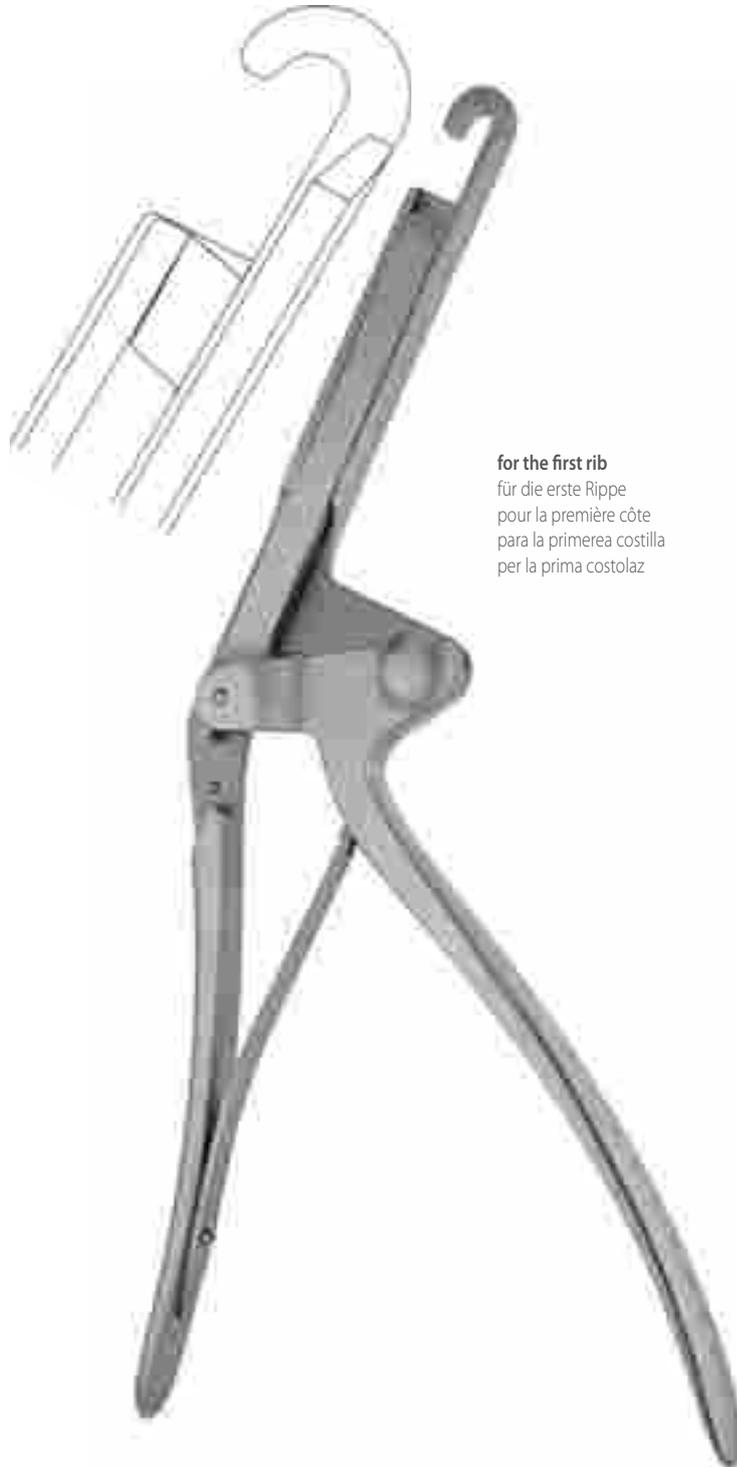
**SAUERBUCH**  
26 cm/10¼"

656-131-26



**GIERTZ-STILLE**  
27 cm/10½"

656-137-27



**for the first rib**  
für die erste Rippe  
pour la première côte  
para la primera costilla  
per la prima costolaz

**SAUERBUCH-FREY**  
36 cm/14"

**656-141-36**

## **Skull Instruments**

Schädel Instrumente

Instruments per crâniennes

Instrumentos para craneotomía

Strumenti per craniotome



**MCKENZIE**

15 cm/6"	<b>440-013-15</b>	<b>440-011-15</b>
19 cm/7½"	<b>440-013-19</b>	<b>440-011-19</b>



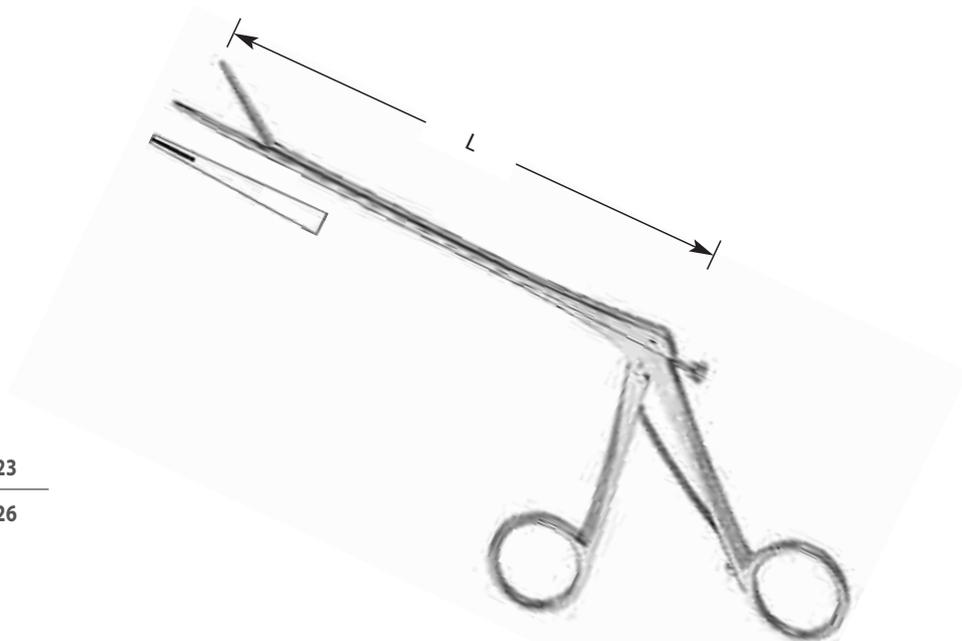
**SMITHWICK**

23 cm/9"	<b>440-015-23</b>
26 cm/10¼"	<b>440-015-26</b>



**SWEET**

23 cm/9"	<b>440-017-23</b>
26 cm/10¼"	<b>440-017-26</b>



**OLIVECRONA-TOENNIS**

14 cm/5½"	<b>440-019-14</b>
20 cm/8"	<b>440-019-20</b>



**MCKENZIE**  
148 x 40 x 6 mm  
**440-020-00**

**Brain Clip Carrier, with 1 clip holding**  
Klammernblock, mit 1 Klammernbügel  
Support porte-agrafes, simple, à 1 rangée d'agrafes et couvercle à glissière  
Porta-grapas, con 1 reil para grapas  
Support metallico, semplice, con porta-fermagli e corperchio scorrevole



**MCKENZIE**  
190 x 48 x 13 mm  
**440-020-02**

**Brain Clip Carrier, with 2 clip holding**  
Klammernblock, mit 2 Klammernbügel  
Support porte-agrafes, simple, à 2 rangée d'agrafes et couvercle à glissière  
Porta-grapas, con 2 reil para grapas  
Support metallico, semplice, con 2 porta-fermagli e corperchio scorrevole



**440-022-00**

**Kölner clip reusable, comprising 100 pieces**  
Kölner Spar Klammer, zu 100 Stück  
Cologne agrafe economique, Boîtes de 100 pièces  
grapa economica Colonia, conteniendo 100 piezas  
agrafe economica mod. Cologna, Unità di 100 pezzi



**RANEY**

**440-027-00**

**Scalp Hemostasis Clip**  
Kopfhautklammer  
Agrafes hémostatique pour cuir chevelu  
Pinza hemostática para cuero cabelludo  
Clip emostatici per cuoio capelluto



**440-021-00**

**Silver Brain Clips in plastic vial, comprising 100 pieces**  
Silberklammern in Plastikbehälter, zu 100 Stück  
Agrafes en argent pur, Boîtes de 100 pièces  
Grapas de plata en tubo de plástico, conteniendo 100 piezas  
Fermagli d'argento, Unità di 100 pezzi



**RANEY**  
15,5 cm/6¼"

**440-028-00**

**Applying and Removing Forceps for Scalp Hemostasis Clips**  
Anlege-und Abnehme-Zange für Kopfhautklammern  
Pine pour power et retirer les clips hémostatiques du cuir chevelu  
Pinza para aplicar y quitar clips hemostáticas de cuero cabelludo  
Pinza per applicare o togliere i clip emostatici al cuoio capelluto

**Skull Traction Tongs**

Schädelhalter  
 Pincès de traction crânienne  
 Estribos de tracción craneal  
 Pinze per trazione craniale



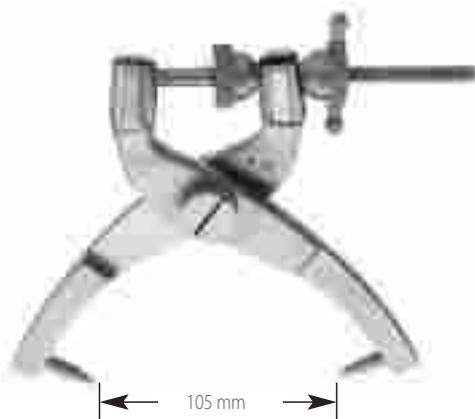
**440-024-00**

**large pattern**  
 großes Modell  
 modèle grand  
 modelo grande  
 modello grande



**440-024-10**

**Spare pin**  
 Ersatzdorn  
 Pointe de rechange  
 Espina de repuesto  
 Punta di ricambio



**CRUTCHFIELD**

**440-025-01**

**small pattern**  
 kleines Modell  
 modèle petit  
 modelo pequeño  
 modello piccolo



**CRUTCHFIELD**

**440-025-02**

**medium pattern**  
 mittleres Modell  
 modèle moyen  
 modelo mediano  
 modello medio



**CRUTCHFIELD**

7 cm/2¾" Ø 3,5 mm

**440-026-35**



**CRUTCHFIELD**

7 cm/2¾" Ø 5,0 mm

**440-026-50**

**Drill Point**  
 Vorbohrer  
 Alésoir  
 Perforador  
 Alesatore



**YASARGIL**  
31 cm/12¼"

440-030-31



**YASARGIL**  
41 cm/16"

440-030-41



**OLIVECRONA**

<b>2 x</b>	23 cm/9"	<b>440-092-22</b>
	30 cm/12"	<b>440-092-30</b>
	40 cm/16"	<b>440-092-40</b>
	50 cm/20"	<b>440-092-50</b>
	60 cm/24"	<b>440-092-60</b>
	70 cm/28"	<b>440-092-70</b>
	75 cm/30"	<b>440-092-75</b>

**GIGLI**

<b>3 x</b>	25 cm/10"	<b>440-093-25</b>
	30 cm/12"	<b>440-093-30</b>
	40 cm/16"	<b>440-093-40</b>
	50 cm/20"	<b>440-093-50</b>
	60 cm/24"	<b>440-093-60</b>
	70 cm/28"	<b>440-093-70</b>

**OLIVECRONA-GIGLI**

<b>4 x</b>	30 cm/12"	<b>440-094-30</b>
	40 cm/16"	<b>440-094-40</b>
	50 cm/20"	<b>440-094-50</b>
	60 cm/24"	<b>440-094-60</b>
	70 cm/28"	<b>440-094-70</b>



**1 Pair**  
 1 Paar  
 1 Paire  
 1 Par  
 1 Paio

**GIGLI**

**440-094-00**

**Wire Saw Handle**  
 Drahtsägen-Handgriff  
 Manche à crochet  
 Mango de gancho  
 Manico con uncino



**1 Pair**  
 1 Paar  
 1 Paire  
 1 Par  
 1 Paio

**GIGLI**

**440-094-01**

**Wire Saw Handle**  
 Drahtsägen-Handgriff  
 Manche à crochet  
 Mango de gancho  
 Manico con uncino



**Wire Saw Guide**  
 Einführinstrument  
 Conducteur pour fils-scies  
 Conductor para sierras de hilo  
 Introduttore

**DE MARTEL**  
 33 cm/13"

**440-090-33**



**LEBSCHÉ**  
 25 cm/10"

**440-091-25**



20,5 cm/8"

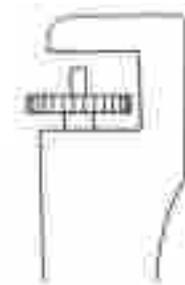
**440-095-20**



**Bore hole protection forceps**  
 Bohrloch-Schutzzange  
 Pincès pour protéger alésage  
 fórceps para la protección de orificio  
 pinze per la protezione di foro



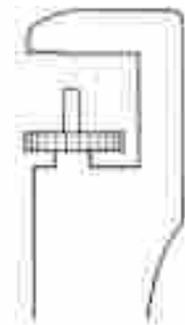
**CONE**



20 cm/8"

**440-098-20**

**for skull thickness up to 7 mm**  
 bis 7 mm Schädelstärke  
 pour épaisseur de la boîte crânienne jusqu'à 7 mm  
 hasta 7 mm de espesor de la pared craneal  
 per spessore cranico fino a mm. 7



23 cm/9"

**440-098-23**

**for skull thickness up to 12 mm**  
 bis 12 mm Schädelstärke  
 pour épaisseur de la boîte crânienne jusqu'à 12 mm  
 hasta 12 mm de espesor de la pared craneal  
 per spessore cranico fino a mm. 12

**Skull Punches**

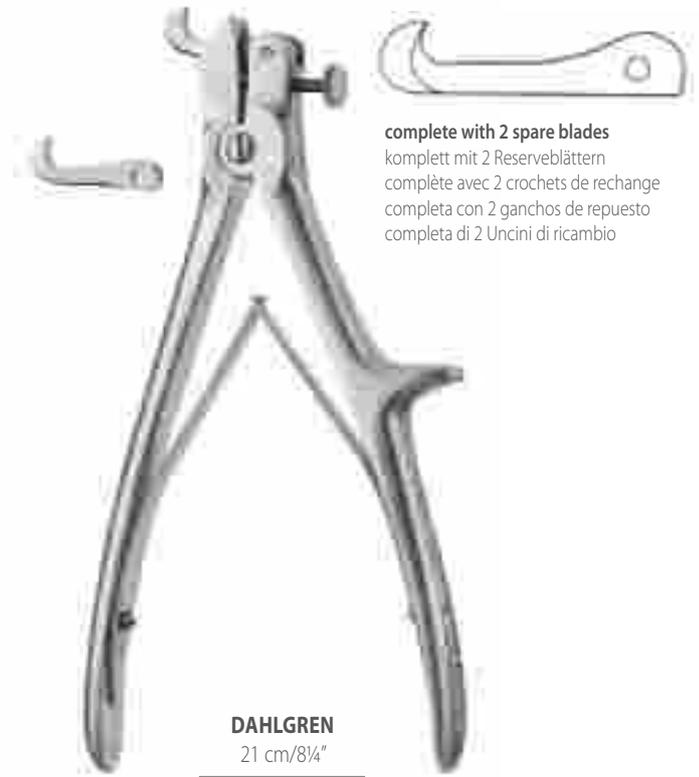
Schädelstanzen  
Pincas emporte-pièce crâniennes  
Pinzas saca-bocadas para craneotomia  
Pinze craniotome



**complete with 1 small and 1 large blade**  
komplett mit je 1 kleinen und 1 großen Blatt  
complète avec 1 petit et 1 grand crochet  
completa con 1 gancho pequeño y 1 gancho grande  
completa di 1 uncino piccolo ed 1 uncino grande

**DEVILBISS**  
21 cm/8¼"

440-096-21



**complete with 2 spare blades**  
komplett mit 2 Reserveblättern  
complète avec 2 crochets de rechange  
completa con 2 ganchos de repuesto  
completa di 2 Uncini di ricambio

**DAHLGREN**  
21 cm/8¼"

440-097-20

## **Hooks, Dissectors**

Haken, Dissektoren

Crochets, Dissecteurs

Separadores, Disectores

Uncini, Dissettori

**Dura and skin hooks**

Dura - und Hauthäkchen  
 Crochets à dure-mère, Crochets dermatologiques  
 Ganchitos para dura-madre y piel  
 Uncini per dura madre, Uncini per la pelle



**sharp**  
 spitz  
 pointue  
 aguda  
 acuta

**CAIRNS**  
 13 cm/5"

218-206-13



**LAHEY**  
 13 cm/5"

218-213-13



**CUSHING**  
 14 cm/5½"

218-213-14



**FRAZIER**

13 cm/5"	<b>218-214-13</b>	<b>218-215-13</b>
18 cm/7"	<b>218-214-18</b>	<b>218-215-18</b>

**sharp**  
 spitz  
 pointue  
 aguda  
 acuta

**blunt**  
 stumpf  
 mousse  
 romo  
 smusso



**sharp**  
 spitz  
 pointue  
 aguda  
 acuta

**JOSEPH**  
 16 cm/6¼"

218-216-01



**JOSEPH**  
 16 cm/6¼"

218-216-10

2 mm	<b>218-216-02</b>
5 mm	<b>218-216-05</b>
7 mm	<b>218-216-07</b>
10 mm	<b>218-216-10</b>

**sharp**  
 spitz  
 pointue  
 aguda  
 acuta



**sharp**  
 spitz  
 pointue  
 aguda  
 acuta

**FREER**  
 15 cm/6"

218-218-15



**sharp**  
 spitz  
 pointue  
 aguda  
 acuta

**TOENNIS**  
 15 cm/6"

218-219-15

# 13

## HOOKS, DISSECTORS

### Nerve Root Retractors

Nervwurzelnaken  
Retractors pour radici die nervi  
Separadores para la raíz de nervio  
Uncini per le radici die nervi



8,0 mm

**SCOVILLE**  
23 cm/9"

440-044-23



7,0 mm

**HOLSCHER**  
24 cm/9½"

440-045-24



7,0 mm

**SCOVILLE**  
19 cm/7½"

440-048-19



**O'CONNELL**  
22 cm/8¾"

440-046-22

**Nerve Root Retractors**

Nervwurzelnaken  
Retractors pour radici die nervi  
Separadores para la raíz de nervio  
Uncini per le radici die nervi



21 cm/8¼"

**440-049-21**



**left**  
links  
à gauche  
a la izquierda  
sinistra

**DANDY**  
20 cm/8"

**440-051-20**



**DANDY**  
20 cm/8"

**440-052-20**



**right**  
rechts  
à droite  
a la derecha  
destra

**DANDY**  
20 cm/8"

**440-053-20**

# 13

## HOOKS, DISSECTORS

**Nerve and Vessel Hooks, Retractors**  
 Nerv- und Gefäßhäkchen, Wundhaken  
 Crochets à nerfs et à vaisseaux, Ecarteurs  
 Ganchos para nervios y vasos, Separadores  
 Uncini per nervi e vasi, Divaricatori



**CRILE**  
20 cm/8"

440-054-20



**CUSHING**



**Fig. 1**

19 cm/7½"

**440-056-19**



**Fig. 2**

28 cm/11"

**440-056-28**

**440-058-28**



**blunt**  
stumpf  
mousse  
romo  
smusso

**HOEN**  
23 cm/9"

440-060-23



**blunt**  
stumpf  
mousse  
romo  
smusso

**GRAHAM**  
16,5 cm/6½"

440-061-16



**sharp**  
spitz  
pointue  
aguda  
acuta

**SACHS**  
18,5 cm/7¼"

440-064-18



**CASPAR**  
24,5 cm/9¾"



440-067-01



440-067-02



440-067-03



440-067-04



**ADSON**  
20 cm/8"



440-068-20

**sharp**  
spitz  
pointue  
aguda  
acuta



440-069-20

**blunt**  
stumpf  
mousse  
romo  
smusso



**GRONINGEN**  
26,5 cm/10½"



440-068-26



440-069-26

# 13

## HOOKS, DISSECTORS

**Nerve hooks, Dissectors**  
Nervhäkchen, Dissektoren  
Crochets à nerfs, Dissecteurs  
Ganchito para nervios, Disecadores  
Uncini per nervi, Dissettori



17 cm/6¾"

440-070-17

**SMITHWICK**



21 cm/8¼"

440-070-21



**SMITHWICK**  
29 cm/11½"

440-070-29



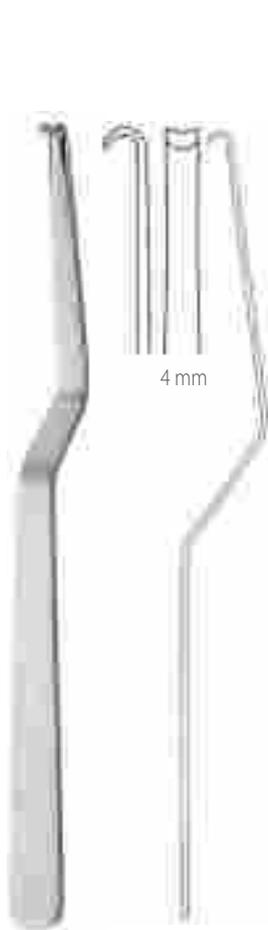
**SCOVILLE**  
30 cm/12"

440-070-30



**SCOVILLE**  
30 cm/12"

440-071-30



**LOVE**  
 21 cm/8¼"  
 440-071-21



**CASPAR**  
 24 cm/9½"

6 mm	<b>440-072-06</b>
8 mm	<b>440-072-08</b>
10 mm	<b>440-072-10</b>



**HESS (LOVE MODIF.)**  
 17,5 cm/7"

3 mm	<b>440-073-03</b>
5 mm	<b>440-073-05</b>
7 mm	<b>440-073-07</b>

**Aneurysm needle**

Aneurysmen-Nadel  
 Aiguille à aneurysme  
 Aguja para aneurisma  
 Ago da aneurisma



**ADSON**  
 22 cm/8¾"  
**440-078-22**



**LOVE**  
 19 cm/7½"  
**440-080-19**



**LOVE**  
 19 cm/7½"  
**440-081-19**



**LOVE**  
 19 cm/7½"  
**440-083-19**

**Bone flap elevator**

Knochendeckel-Elevatorium  
Rugines-Raspatoires pour lambeau osseux  
Periostótomos para hueso solapa  
Periostotomi per lembo osseo



**CAIRNS**  
17,5 cm/7"

440-102-17



**PARTSCH**  
15 cm/6"

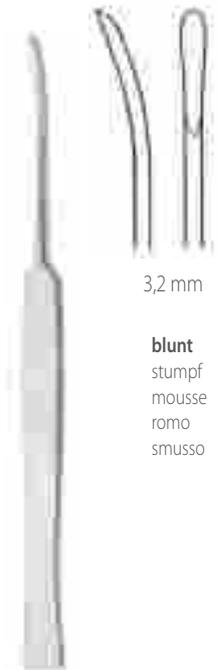
440-132-01

440-132-02



**LANGE**  
14,5 cm/5¾"

440-132-14



**LEMPERT**  
16,5 cm/6½"

440-133-16

**blunt**  
stumpf  
mousse  
romo  
smusso



**LEMPERT**  
18,5 cm/7¼"

440-134-18

6,3 mm  
**semi-sharp**  
halbscharf  
semitranchante  
semi agudo  
semiacuto



**ST CLAIR THOMPSON**  
16 cm/6¼"

16 cm/6¼"

440-136-16

**sharp**  
spitz  
pointue  
aguda  
acuta

440-138-16

**blunt**  
stumpf  
mousse  
romo  
smusso



**HALLE**  
16 cm/6¼"

440-139-16

3,5mm



**SUNDAY**  
23 cm/9"

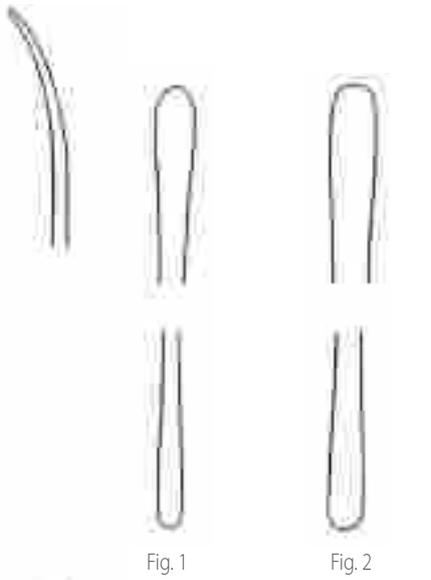
440-140-23

3 mm

**blunt**  
stumpf  
mousse  
romo  
smusso



**TOENNIS**  
25 cm/10"



**440-141-25**

**440-142-25**

**Dura Dissectors**  
 Duradissectoren  
 Dissecteurs à dure-mère  
 Disecadores para duramadre  
 Dissettori per la dura-madre



**SACHS**  
21 cm/8¼"  
**440-143-21**

sharp  
spitz  
pointue  
aguda  
acuta



**SACHS**  
21 cm/8¼"  
**440-145-21**

sharp  
spitz  
pointue  
aguda  
acuta



**MILLIGAN**  
21 cm/8¼"  
**440-147-21**

**Probe dissector**

Sonde und Dissektor  
Sonde et dissector  
Sonda y disecador  
sonda e dissetore



**MILLIGAN**  
22 cm/8¾"

**440-149-22**



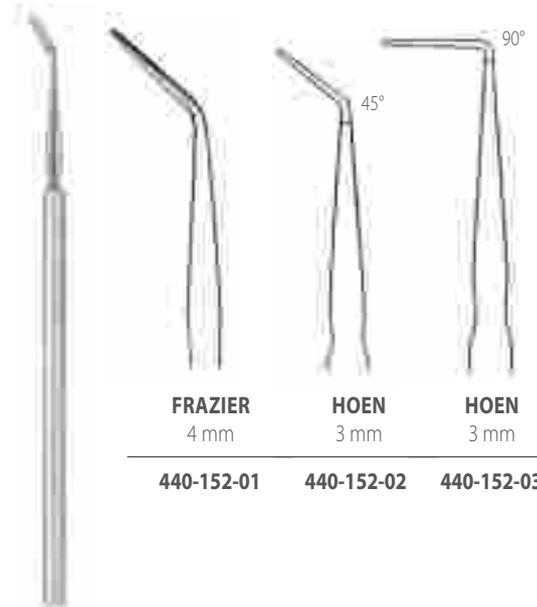
**PENNYBAKER**  
23 cm/9"

**440-149-23**



**DAVIS**  
24,5 cm/9¾"

**440-151-24**



**FRAZIER**  
4 mm

**440-152-01**

**HOEN**  
3 mm

**440-152-02**

**HOEN**  
3 mm

**440-152-03**

15 cm/6"



**HORSLEY**  
20 cm/8"

**440-155-20**



**SACHS**  
21 cm/8¼"

**440-157-21**

**Dissector with flexible shaft**  
 Dissektor mit flexiblem Schaft  
 Dissecteur à arbre flexible  
 Dissector con eje flexible  
 Dissector con asta flessibile



4 mm

**440-157-19**

**for children**  
 für Kinder  
 pour les enfants  
 para los niños  
 per i bambini

7 mm

**440-159-19**

**for adults**  
 für Erwachsene  
 pour les adultes  
 para adultos  
 per adulti

**YASARGIL**  
19,5 cm/7¾"



**PENFIELD**  
17,5 cm/7"  
Fig. 1

440-161-01



**PENFIELD**  
19,5 cm/7¾"  
Fig. 2

440-161-02



**PENFIELD**  
19,5 cm/7¾"  
Fig. 3

440-161-03



**PENFIELD**  
20,5 cm/8"  
Fig. 4

440-161-04



**PENFIELD**  
18,5 cm/7¼"  
Fig. 5

440-161-05

# 13

## HOOKS, DISSECTORS

**Dura Dissectors**  
Duradissectoren  
Dissecteurs à dure-mère  
Disecadores para duramadre  
Dissettori per la dura-madre



7 mm

6 mm

29 cm/11½"

**440-162-29**



29 cm/11½"

**440-163-29**

**Cordotome**  
Chordotome  
Cordotomes  
Cordotomi  
Cordotomi



**FRAZIER**  
18 cm/7"

**440-167-18**

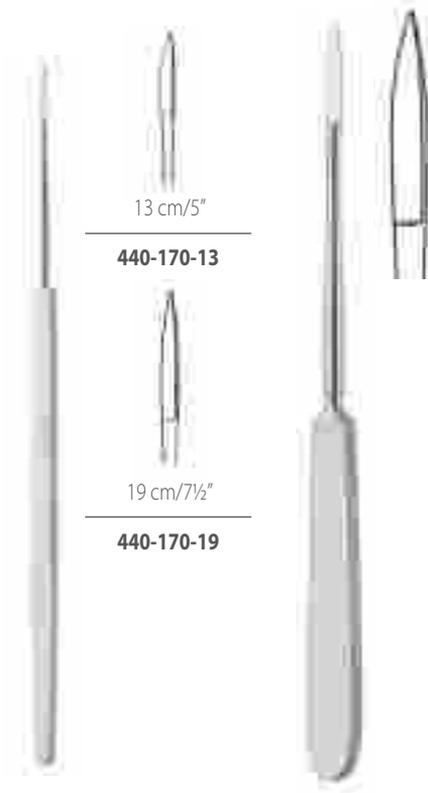
**Trigeminal knife**  
Trigeminusmesser  
Couteau pour trijumeau  
Cuchillo para trigémino  
Coltello per trigemino



23 cm/9"

**440-167-23**

**Dura knife**  
Duramesser  
Couteau pour dure-mère  
Cuchillo para duramadre  
Coltello per la dura-madre



13 cm/5"

**440-170-13**

19 cm/7½"

**440-170-19**

**TOENNIS**

**HALLE**  
20 cm/8"

**440-170-20**

## **Micro Instruments with Round Handles**

Mikro-Rundgriff Instrumente

Uncini, Dissettori

Micro-instruments à manche rond

Instrumentos para microcirugía  
con mangos redondos

Strumenti per Microchirurgia con  
manico rotondo

## MICRO INSTRUMENTS WITH ROUND HANDLES

**Raspatories**

Raspatorien  
Rugines  
Legras  
Periostotomi



2,5 mm

2,0 mm

2,0 mm

**440-062-02**

**440-062-03**

**40-062-04**

**YASARGIL**

18,5 cm/7¼"



**440-063-00**

**sharp**  
spitz  
pointue  
aguda  
acuta

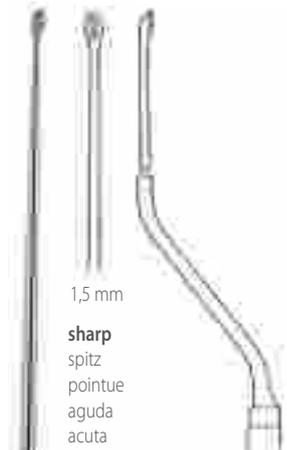
**YASARGIL**

23 cm/9"



**440-063-01**

**sharp**  
spitz  
pointue  
aguda  
acuta



1,5 mm

**sharp**  
spitz  
pointue  
aguda  
acuta

**YASARGIL**

18,5 cm/7¼"

**440-063-19**

## MICRO INSTRUMENTS WITH ROUND HANDLES

### Nerve and vessel hooks

Nerv- und Gefäßhäkchen  
 Crochets à nerfs et à vaisseaux  
 Ganchos para nervios y vasos  
 Uncini per nervi e vasi



**KRAYENBÜHL**

Fig. 1

**440-065-01**



**KRAYENBÜHL**

Fig. 2

**440-065-02**



**KRAYENBÜHL**

Fig. 3

**440-065-03**



**KRAYENBÜHL**

Fig. 4

**440-065-04**

### Ligature Guides and Carriers, probe pointed

Fadenführer, geknüpft  
 Passe-fils  
 Guía-ligadura, abotonado  
 Guide per legatura



**YASARGIL**

Fig. 1

**440-064-01**



**YASARGIL**

Fig. 2

**440-064-02**



**YASARGIL**

Fig. 3

**440-064-03**



**YASARGIL**

Fig. 4

**440-064-04**

18,5 cm/7¼"

### Vessel knife

Gefäß Messer  
 Couteau pour vaisseaux  
 Cuchillo para vasos  
 Coltello per vasi



**KOOS**

**440-065-51**

**upwards curved**  
 aufgebogen  
 courbe vers le haut  
 curva hacia arriba  
 curvo in sú



**KOOS**

**440-065-52**

**downward curved**  
 abgebogen  
 courbe vers le bas  
 curva hacia abajo  
 curvo in giù



**KOOS**

**440-065-53**

**upwards curved**  
 aufgebogen  
 courbe vers le haut  
 curva hacia arriba  
 curvo in sú



**KOOS**

**440-065-54**

**downward curved**  
 abgebogen  
 courbe vers le bas  
 curva hacia abajo  
 curvo in giù



**KOOS**

**440-065-57**

**upwards curved**  
 aufgebogen  
 courbe vers le haut  
 curva hacia arriba  
 curvo in sú



**KOOS**

**440-065-56**

**downward curved**  
 abgebogen  
 courbe vers le bas  
 curva hacia abajo  
 curvo in giù

### Arachnoid knife

Arachnoidea Messer  
 Couteaux arachnoïdiens  
 Arachnoidea cuchillos  
 Arachnoidea coltelli



**GIGLI**

**440-065-65**

**downward curved**  
 abgebogen  
 courbe vers le bas  
 curva hacia abajo  
 curvo in giù



**GIGLI**

**440-065-66**

**upwards curved**  
 aufgebogen  
 courbe vers le haut  
 curva hacia arriba  
 curvo in giù

18,5 cm/7¼"

## MICRO INSTRUMENTS WITH ROUND HANDLES

**Raspatories**  
 Raspatorien  
 Rugines  
 Legras  
 Periostotomi



**YASARGIL**  
 19 cm/7½"



**440-066-01**



**440-066-02**



**440-066-03**



**440-066-04**



**440-066-05**



**440-066-06**



**Vessel Spreader**  
 Gefäßspreizer  
 Ecarteur pour vaisseaux  
 Separador para vasos  
 Divaricatore per vasi

**BIEMER**  
 16 cm/6¼"

**440-066-10**



Ø 0,5 mm  
 12,5 cm/5"

**440-066-16**



Ø 1,0 mm  
 12,5 cm/5"

**440-066-17**



Ø 1,5 mm  
 12,5 cm/5"

**440-066-18**

**Vessel Dilator**  
 Gefäßdilator  
 Dilateurs vasculaires  
 Dilatadores vasculares  
 Diltatori vascolari



**JACOBSON**  
 18,5 cm/7¼"

**440-066-19**



**JACOBSON**  
 18,5 cm/7¼"

**440-066-20**

**Buttoned probes**  
 Knopfsonde  
 Sondes boutonnées  
 Sondas abotonadas  
 Sonde bottonute

## MICRO INSTRUMENTS WITH ROUND HANDLES



**SAMII**  
23 cm/9"

**Tumor knives**

Tumormesser  
 Couteaux à tumeurs  
 Cuchillos para tumores  
 Coltelli per tumori



1,0 mm

**440-075-10**



1,5 mm

**440-075-11**



2,0 mm

**440-075-12**



2,5 mm

**440-075-13**



3,0 mm

**440-075-14**



3,5 mm

**440-075-15**



4,0 mm

**440-075-16**



5,0 mm

**440-075-18**

**Knives for tumor tissue**

Messer für Tumorgewebe  
 Couteaux pour tissu de tumeur  
 Cuchillos para tejidos con tumores  
 Coltelli per tessuto tumolare



1,5 mm

**440-076-01**



3,0 mm

**440-076-02**



4,5 mm

**440-076-03**



6,0 mm

**440-076-04**

**Lancet knives for tumor tissue**

Lanzettenmesser für Tumorgewebe  
 Couteaux lancéolaires pour tissu de tumeur  
 Cuchillos en forma de lanceta para tejidos con tumores  
 Coltelli lanceolato per tessuto tumolare



1,8 mm

**440-077-18**



2,5 mm

**440-077-25**

**Tumor forks**

Tumorgabeln  
 Fourches à tumeurs  
 Horquillas para tumores  
 Forchette per tumori

5 mm



**440-079-05**

8 mm



**440-079-08**



**YASARGIL**  
20 cm/8"

## MICRO INSTRUMENTS WITH ROUND HANDLES

**Dissectors**

Dissektoren

Dissecteurs

Disectores

Dissettori



CASPAR



4,5 mm  
23 cm/9"

**440-171-01**



4,5 mm  
23 cm/9"

**440-171-02**



2 mm  
23 cm/9"

**440-171-03**



1 mm  
20 cm/8"

**440-173-01**



1 mm  
21 cm/8¼"

**440-173-02**



1 mm  
21 cm/8¼"

**440-173-03**

## MICRO INSTRUMENTS WITH ROUND HANDLES

**Knot tier and ligature pusher**  
 Fadengabel  
 Fourche pour fil à suturer  
 Horquilla para ligadura  
 Forchetta per legatura



**JACOBSON**  
23 cm/9"

**440-172-19**



**CASPAR**  
23 cm/9"

**440-171-04**

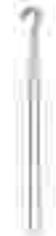
**interchangeable Vessel Knife**  
 auswechselbares Gefäßmesser  
 perméable vaisseaux couteau  
 sostituibile buque cuchillo  
 sostituibili nave coltello



**JACOBSON**  
9,5 cm/3¾"

**440-172-01**

**interchangeable Hook**  
 auswechselbares Häckchen  
 auswechselbares coustil  
 sostituibile gancho  
 sostituibili gancio



9,5 cm/3¾"

**440-172-02**

**Handle with chuck**  
 Griff mit Spannfutter  
 Manipuler avec Chuck  
 Manipular con Chuck  
 Maneggiare con Chuck

10,5 cm/4"

**440-172-10**



3 mm	<b>440-174-03</b>
4 mm	<b>440-174-04</b>
5 mm	<b>440-174-05</b>
8 mm	<b>440-174-08</b>

**Tumor forks**  
 Tumorgabeln  
 Fourches à tumeurs  
 Horquillas para tumores  
 Forchette per tumori

**OKONEK-YASARGIL**

23 cm/9"

## MICRO INSTRUMENTS WITH ROUND HANDLES



**RHOTON**  
 19 cm/7½"



Ø 1 mm

**440-180-01**

**Dissector, round**  
 Dissektor, rund  
 Dissecteur, ronde  
 Dissectore, ronda  
 Dissettora, rotondo



Ø 2 mm

**440-180-02**

**Dissector, round**  
 Dissektor, rund  
 Dissecteur, ronde  
 Dissectore, ronda  
 Dissettora, rotondo



Ø 3 mm

**440-180-03**

**Dissector, round**  
 Dissektor, rund  
 Dissecteur, ronde  
 Dissectore, ronda  
 Dissettora, rotondo



1,2 mm

**440-180-04**

**Elevator**  
 Elevator  
 Elévateur  
 Elevadore  
 Elevatori



2,8 mm

**440-180-05**

**Elevator**  
 Elevator  
 Elévateur  
 Elevadore  
 Elevatori



1 mm

**440-180-06**

**Dissector, spatula**  
 Dissektor, spatelförmig  
 Dissecteur, spatulée  
 Dissectore, spatulate  
 Dissettora, spatulate



1,5 mm

**440-180-07**

**Dissector, spatula**  
 Dissektor, spatelförmig  
 Dissecteur, spatulée  
 Dissectore, spatulate  
 Dissettora, spatulate



2 mm

**440-180-08**

**Dissector, spatula**  
 Dissektor, spatelförmig  
 Dissecteur, spatulée  
 Dissectore, spatulate  
 Dissettora, spatulate



2 mm

**440-180-09**

**Hook, semi-sharp**  
 Häckchen, halbscharf  
 Crochet, semitranchante  
 Gancho, semi agudo  
 Gancio, semiacuto



2 mm

**440-180-10**

**Hook, blunt**  
 Häckchen, stumpf  
 Crochet, mousse  
 Gancho, romo  
 Gancio, smusso



3 mm

**440-180-11**

**Hook, semi-sharp**  
 Häckchen, halbscharf  
 Crochet, semitranchante  
 Gancho, semi agudo  
 Gancio, semiacuto



**440-180-12**

**Needle, semi-sharp**  
 Nadel, halbscharf  
 Aiguille, semitranchante  
 Aguja, semi agudo  
 Ago, semiacuto



**440-180-16**

**Buttoned probes**  
 Knopfsonde  
 Sondes boutonnées  
 Sondas abotonadas  
 Sonde bottonute



1 x 2 mm

**440-180-13**

**Curette, oval**  
 Scharfelöffel, oval  
 Curette, oval  
 Cucharilla, oval  
 Curette, ovale



1 x 2 mm

**440-180-14**

**Curette, oval**  
 Scharfelöffel, oval  
 Curette, oval  
 Cucharilla, oval  
 Curette, ovale

## MICRO INSTRUMENTS WITH ROUND HANDLES

**Tissue claws**  
 Gewebekralen  
 Griffes tissulaires  
 Garras para tejido  
 Artiglie per tessuti



**with guard**  
 mit Schutzkappe  
 avec capuchon  
 con una tapa protectora  
 con un cappuccio protettivo

18,5 cm/7¼"

Ø 1,0 mm	<b>440-190-10</b>
Ø 1,8 mm	<b>440-190-18</b>

**Dura hooks**  
 Durahäckchen  
 Crochet pour la dure-mère  
 Ganchito para duramadre  
 Uncino per dura-madre



**sharp**  
 spitz  
 pointue  
 aguda  
 acuta

18,5 cm/7¼"

**440-191-01**



23 cm/9"

**440-191-23**

**sharp**  
 spitz  
 pointue  
 aguda  
 acuta



**blunt**  
 stumpf  
 mousse  
 romo  
 smusso

**FISCH**  
 18,5 cm/7¼"

**440-191-02**



23 cm/9"

**440-191-24**

**blunt**  
 stumpf  
 mousse  
 romo  
 smusso



**Micro vessel knife**  
 Mikro-Gefäßmesser  
 Micro couteau pour vaisseaux  
 Micro cuchillo para vasos  
 Micro coltello per vasi

**JACOBSON**  
 18,5 cm/7¼"

**440-065-50**



**Hook**  
 Fußplattenhäckchen  
 Crochet  
 Ganchito  
 Uncino

0,2 mm



**FISCH**  
 16 cm/6¼"

**440-191-16**

15 |

## **LEYLA Fixation System**

LEYLA Fixations-System

LEYLA système de fixation

LEYLA sistema de fijación

LEYLA sistema da fissaggio

## LEYLA FIXATION SYSTEM

### Ball and socket joint, articulated

Kugelgelenk-Kloben

Sabot pour fixer le bras, articulé

Zapato para la fijación del brazo, zrticulado

Zoccolo per fissare il braccio, articolato

**440-220-01**

### Holding rod for fixation

Haltearm

Bras de fixation

Brazo de fijación

Braccio di fissaggio

**440-220-02**

### Coupling head for 5 flexible arms max.

Kupplungskopf für max. 5 Spannarme

Piece de combinaison pour 5 bras flexibles max.

Pieza de combinación para 5 brazos máx.

Pezzo per combinare 5 bracci mass.

**440-220-03**

### Coupling head rotatable

Kupplungskopf drehbar

Piece de combinaison rotative

Pieza de combinación giratoria

Pezzo per combinare girevole

**440-220-04**

**LEYLA retractor Set 2 (2 Arms) for fixation to OR table siderails consisting of: 440-220-01, 440-220-02, 440-220-03, 440-220-04, 2 x 440-220-07, 2 x 440-220-08, 2 x 440-220-09**

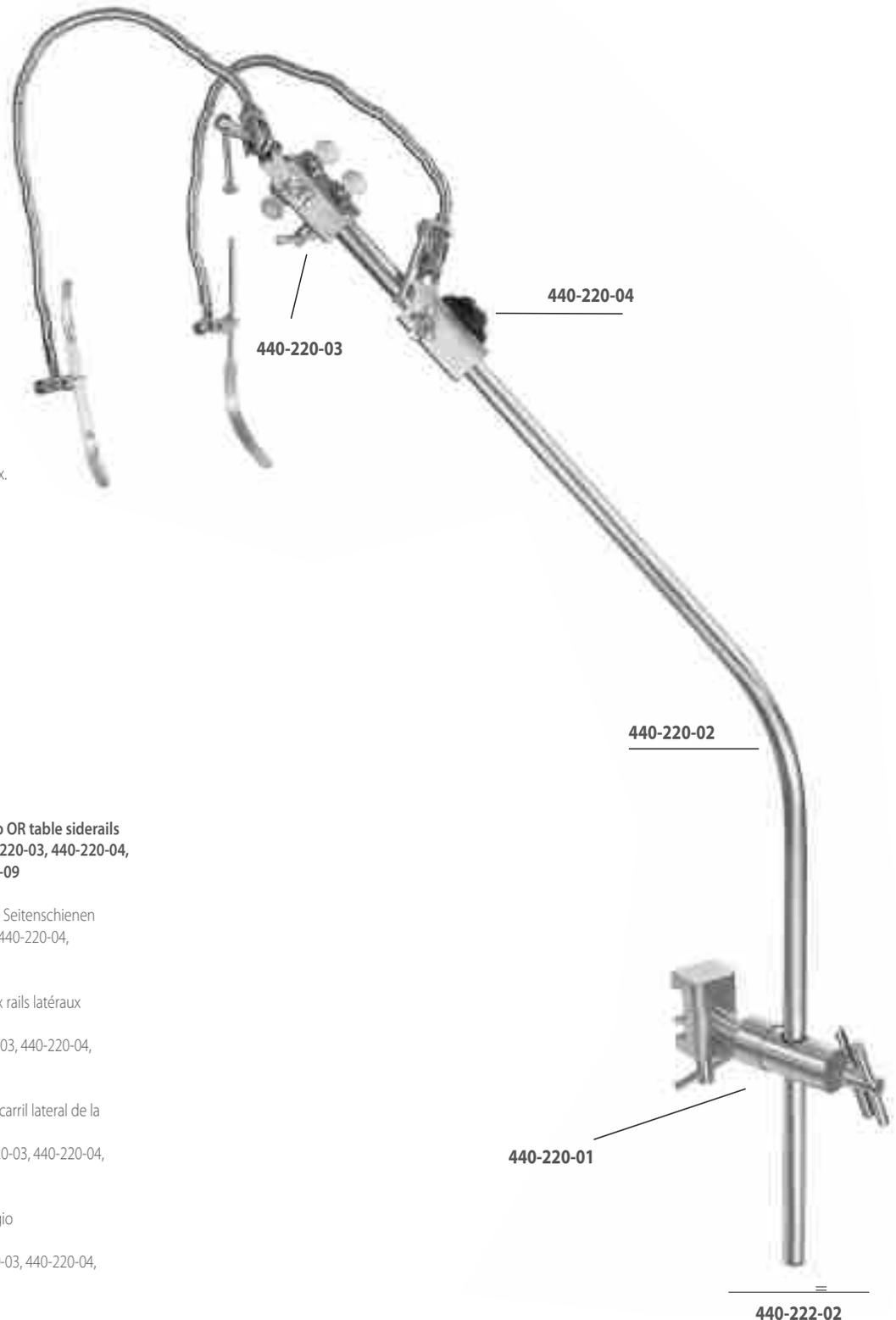
LEYLA Retractor Set 2 (2 Arme) zur Montage an Seitenschienen  
best. aus: 440-220-01, 440-220-02, 440-220-03, 440-220-04,  
2 x 440-220-07, 2 x 440-220-08, 2 x 440-220-09

LEYLA écarteur set 2 (2 bras) pour montage aux rails latéraux  
de la table d'OP  
composé de: 440-220-01, 440-220-02, 440-220-03, 440-220-04,  
2 x 440-220-07, 2 x 440-220-08, 2 x 440-220-09

LEYLA separador set 2 (2 brazos) para montar al carril lateral de la  
mesa operatoria  
compuesto de: 440-220-01, 440-220-02, 440-220-03, 440-220-04,  
2 x 440-220-07, 2 x 440-220-08, 2 x 440-220-09

LEYLA divaricatore set 2 (2 bracci) per montaggio  
al tavolo di operazione  
composto da: 440-220-01, 440-220-02, 440-220-03, 440-220-04,  
2 x 440-220-07, 2 x 440-220-08, 2 x 440-220-09

**440-222-02**



**Ball and socket joint, articulated**

Kugelgelenk-Kloben  
Sabot pour fixer le bras, articulé  
Zapato para la fijación del brazo, zrticulado  
Zoccolo per fissare il braccio, articolato

**440-220-01**

**Holding rod for fixation**

Haltearm  
Bras de fixation  
Brazo de fijación  
Braccio di fissaggio

**440-220-02**

**Coupling head for 5 flexible arms max.**

Kupplungskopf für max. 5 Spannarme  
Piese de combinaison pour 5 bras flexibles max.  
Pieza de combinación para 5 brazos máx.  
Pezzo per combinare 5 bracci mass.

**440-220-03**

**LEYLA retractor Set 1 (1 Arm)**

for fixation to OR table siderails  
consisting of: 440-220-01, 440-220-02, 440-220-03, 440-220-08, 440-220-09

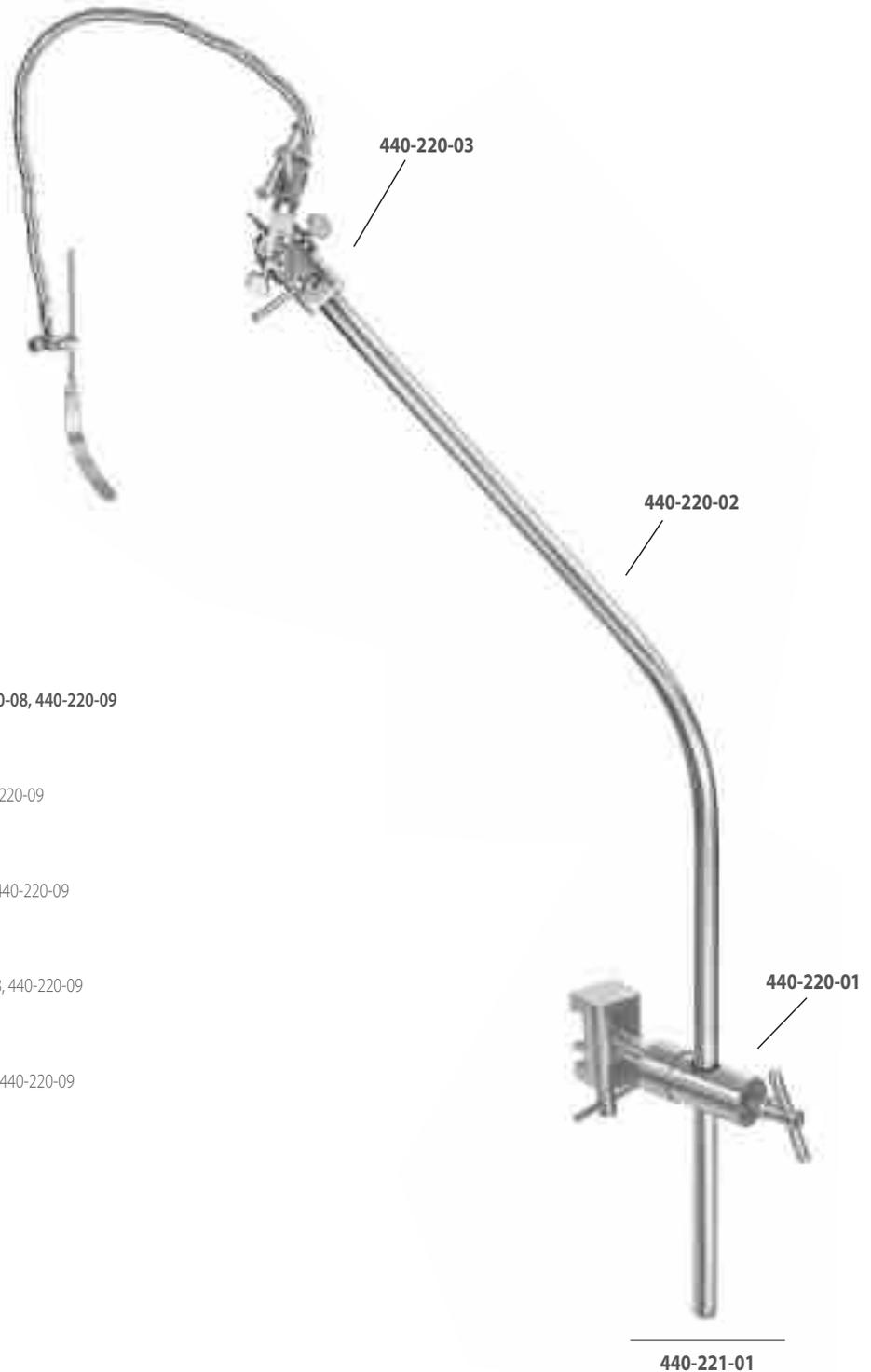
LEYLA Retractor Set 1 (1 Arm)  
zur Montage an Seitenschiene  
best. aus: 440-220-01, 440-220-02, 440-220-03, 440-220-08, 440-220-09

LEYLA écarteur set 1 (1 bras)  
pour montage aux rails latéraux de la table d'OP  
composé de: 440-220-01, 440-220-02, 440-220-03, 440-220-08, 440-220-09

LEYLA separador set 1 (1 brazo)  
para montar al carril lateral de la mesa operatoria  
compuesto de: 440-220-01, 440-220-02, 440-220-03, 440-220-08, 440-220-09

LEYLA divaricatore set 1 (1 braccio)  
per montaggio al tavolo di operazione  
composto da: 440-220-01, 440-220-02, 440-220-03, 440-220-08, 440-220-09

**440-221-01**



## LEYLEA FIXATION SYSTEM



**Brain retractor, self retaining, flexible,  
for flat spatula,  
with 1 flexible arm, complete, consisting of:  
440-220-05, 440-220-08, 440-220-09**

Hirnspatelhalter, selbsthaltend, flexibel,  
für flache Spatel,  
mit 1 Spannarm, komplett, bestehend aus:  
440-220-05, 440-220-08, 440-220-09

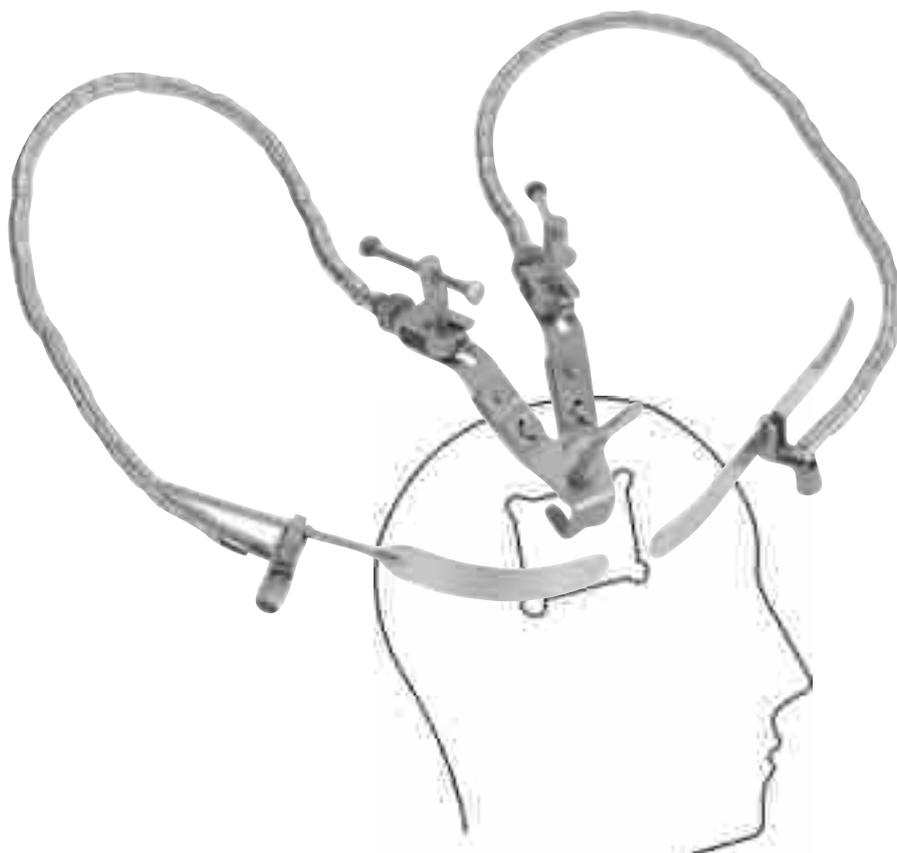
Ecarteur autostatique, flexible,  
pour des spatules plates,  
avec un bras flexibles, complet, composé de:  
440-220-05, 440-220-08, 440-220-09

Separador autorretentivo, flexible,  
para espátulas llanas ,  
con 1 brazo flexibles, completo, compuesto de:  
440-220-05, 440-220-08, 440-220-09

Divaricatore autostatico, flessibile,  
per spatole piatte,  
con 1 braccio flessibili, completo, composto da:  
440-220-05, 440-220-08, 440-220-09

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**440-221-00**



**Brain retractor, self retaining, flexible,  
for flat spatula,  
with 2 flexible arms, complete, consisting of:  
440-220-06, 2 x 440-220-08, 2 x 440-220-09**

Hirnspatelhalter, selbsthaltend, flexibel,  
für flache Spatel,  
mit 2 Spannarmen, komplett, bestehend aus:  
440-220-06, 2 x 440-220-08, 2 x 440-220-09

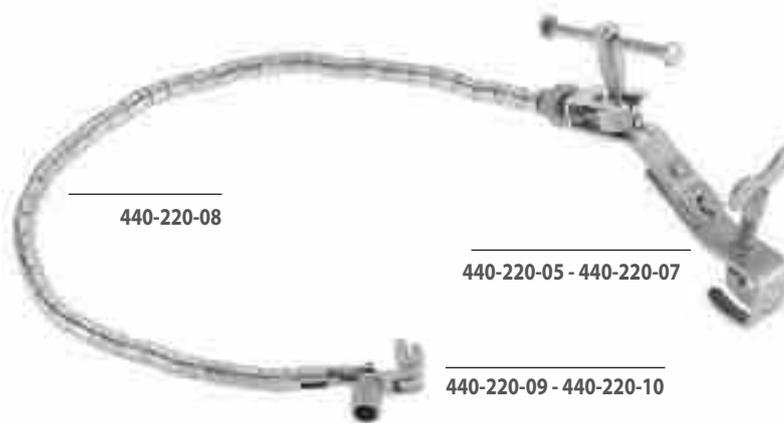
Ecarteur autostatique, flexible,  
pour des spatules plates,  
avec 2 bras flexibles, complet, composé de:  
440-220-06, 2 x 440-220-08, 2 x 440-220-09

Separador autorretentivo, flexible,  
para espátulas llanas ,  
con 2 brazos flexibles, completo, compuesto de:  
440-220-06, 2 x 440-220-08, 2 x 440-220-09

Divaricatore autostatico, flessibile,  
per spatole piatte,  
con 2 bracci flessibili, completo, composto da:  
440-220-06, 2 x 440-220-08, 2 x 440-220-09

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**440-222-00**



440-220-08

440-220-05 - 440-220-07

440-220-09 - 440-220-10

**Flexible arm only**

Spannarm allein  
Bras flexible seul  
Braso flexible suelto  
Braccio flessibile solo

440-220-08

**Fixation bases for skull or rigid holding arm**

Fixiervorrichtungen für Schädel oder Starrarm  
Bases pour fixation au crâne ou au bras rigide  
Fijadores para fijación al cráneo o al brazo rígido  
Fissatori per fissaggio al cranio o al braccio rigido

440-220-05, 440-220-06, 440-220-07



**Fixation base for 1 arm at skull**

Fixiervorrichtung für 1 Arm zum Festschrauben am Schädel  
Base de fixation pour 1 bras au crâne  
Fijador para 1 brazo al cráneo  
Fissatore per 1 braccio al cranio

440-220-05



**Ear specula holder only**

Ohrtrichterhalter allein  
Support pour spéculum auriculaire  
Soporte para espéculo de oídos  
Sostegno per specolo auricolare

440-220-12

**Fixation base for 2 arms at skull**

Fixiervorrichtung für 2 Arme zum Festschrauben am Schädel  
Base de fixation pour 2 bras au crâne  
Fijador para 2 brazos al cráneo  
Fissatore per 2 bracci al cranio

440-220-06



**Fixation base for 1 arm at rigid arm**

Fixiervorrichtung für 1 Arm zum Festschrauben am Starrarm  
Base de fixation pour 1 bras au bras rigide  
Fijador para 1 brazo al brazo rígido  
Fissatore per 1 braccio al braccio rigido

440-220-07



**Holder for flat brain spatula**

Halter für flache Hirnspatel  
Support pour des spatules plates  
Soporte para espátulas llanas  
Sostegno per spatole piatte

440-220-09



**Holder for brain spatula with round stem**

Halter für Hirnspatel mit rundem Schaft  
Support pour des spatules a tige ronde  
Soporte para espátulas con vástago redondo  
Sostegno per spatole con asta rotonda

440-220-10

## LEYLA FIXATION SYSTEM



**CUSHING**

7/9 x 180 mm	<b>440-250-07</b>
11/13 x 180 mm	<b>440-250-11</b>
15/18 x 180 mm	<b>440-250-15</b>
18/22 x 180 mm	<b>440-250-18</b>

**malleable**  
biegsam  
malléable  
maleable  
malleabile



**OLIVECRONA**

7/9 x 180 mm	<b>440-252-13</b>
11/13 x 180 mm	<b>440-252-15</b>
15/18 x 180 mm	<b>440-252-17</b>
18/22 x 180 mm	<b>440-252-19</b>

**convex**  
konvex  
convexe  
convexa  
convessa



**OLIVECRONA**

7/9 x 180 mm	<b>440-250-07</b>
11/13 x 180 mm	<b>440-250-11</b>
15/18 x 180 mm	<b>440-250-15</b>
18/22 x 180 mm	<b>440-250-18</b>

**convex**  
konvex  
convexe  
convexa  
convessa



**SCOVILLE**

10/13 x 200 mm	<b>440-254-10</b>
16/19 x 200 mm	<b>440-254-16</b>

**malleable**  
biegsam  
malléable  
maleable  
malleabile



7/8 x 200 mm	<b>440-256-07</b>
10/11 x 200 mm	<b>440-256-10</b>
13/14 x 200 mm	<b>440-256-13</b>
16/17 x 200 mm	<b>440-256-16</b>
19/20 x 200 mm	<b>440-256-19</b>
22/25 x 200 mm	<b>440-256-22</b>

**malleable**  
 biegsam  
 malléable  
 maleable  
 malleabile

**AACHEN**


9 x 200 mm	<b>440-257-01</b>
12 x 200 mm	<b>440-257-02</b>
12 x 250 mm	<b>440-257-03</b>

**malleable**  
 biegsam  
 malléable  
 maleable  
 malleabile

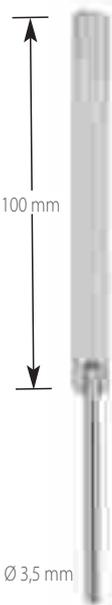


0,90 mm

**malleable**  
 biegsam  
 malléable  
 maleable  
 malleabile

**CAIRNS**

6 x 200 mm	<b>440-258-06</b>
8 x 200 mm	<b>440-258-08</b>
10 x 200 mm	<b>440-258-10</b>
11 x 200 mm	<b>440-258-11</b>
13 x 200 mm	<b>440-258-13</b>
16 x 200 mm	<b>440-258-16</b>
19 x 200 mm	<b>440-258-19</b>
25 x 200 mm	<b>440-258-25</b>

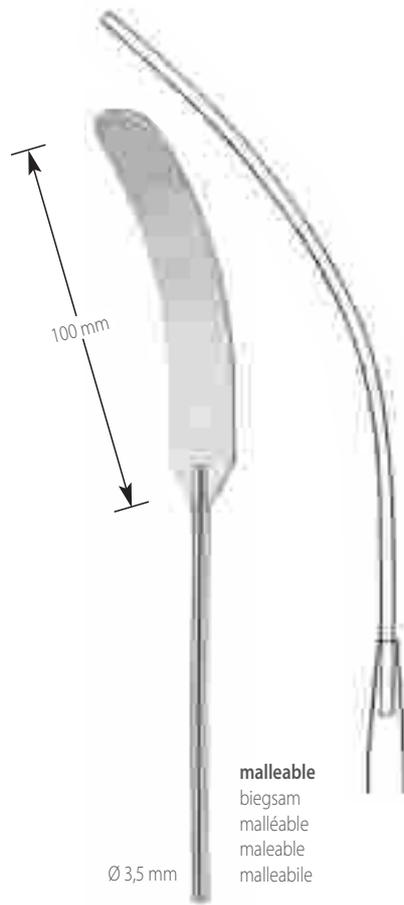


100 mm

8 x 155 mm	<b>440-259-08</b>
11 x 155 mm	<b>440-259-11</b>
14 x 155 mm	<b>440-259-14</b>
17 x 155 mm	<b>440-259-17</b>

Ø 3,5 mm

**malleable**  
 biegsam  
 malléable  
 maleable  
 malleabile

**HEIFETZ**


100 mm

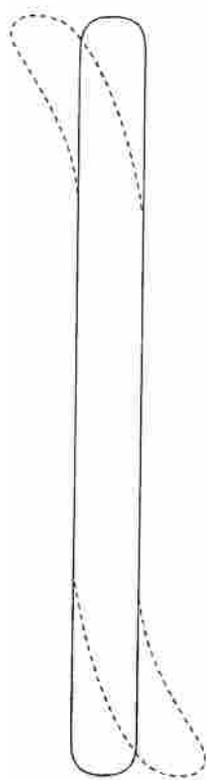
**malleable**  
 biegsam  
 malléable  
 maleable  
 malleabile

Ø 3,5 mm

**HEIFETZ**

8 x 200 mm	<b>440-260-08</b>
11 x 200 mm	<b>440-260-11</b>
14 x 200 mm	<b>440-260-14</b>
17 x 200 mm	<b>440-260-17</b>
20 x 200 mm	<b>440-260-20</b>

## LEYLA FIXATION SYSTEM



**malleable**  
 biegsam  
 malléable  
 maleable  
 malleabile

### RIBBON

6 x 200 mm	<b>218-168-06</b>
7 x 200 mm	<b>218-168-07</b>
9 x 200 mm	<b>218-168-09</b>
12 x 200 mm	<b>218-168-12</b>
17 x 200 mm	<b>218-168-17</b>
20 x 200 mm	<b>218-168-20</b>
25 x 200 mm	<b>218-168-24</b>
25 x 250 mm	<b>218-168-25</b>



**malleable**  
 biegsam  
 malléable  
 maleable  
 malleabile

### RIBBON

13 x 330 mm	<b>218-170-13</b>
19 x 330 mm	<b>218-170-19</b>
25 x 330 mm	<b>218-170-25</b>
30 x 330 mm	<b>218-170-30</b>
32 x 330 mm	<b>218-170-32</b>
40 x 330 mm	<b>218-170-40</b>
45 x 330 mm	<b>218-170-45</b>
50 x 330 mm	<b>218-170-50</b>
64 x 330 mm	<b>218-170-64</b>
75 x 330 mm	<b>218-170-75</b>



**malleable, very soft**  
 biegsam, sehr weich  
 malléable, muy blando  
 maleable, très souple  
 malleabile, molto dolci

### MARTIN

6,5 x 200 mm	<b>218-173-06</b>
9,5 x 200 mm	<b>218-173-09</b>
13 x 200 mm	<b>218-173-13</b>
16 x 200 mm	<b>218-173-16</b>
19 x 200 mm	<b>218-173-19</b>
25 x 200 mm	<b>218-173-25</b>



16 |

## Suction Tubes

Saugrohre

Tubes d'aspiration

Tubos de aspiración

Tubi d'aspirazione

## SUCTION TUBES



Olive ø 6,5 - 9 mm  
Schlaucholive ø 6,5 - 9 mm  
Olive ø 6,5 - 9 mm  
Oliva ø 6,5 - 9 mm  
Oliva ø 6,5 - 9 mm

	ø 1,5 mm	ø 2,0 mm	ø 2,5 mm	ø 3,5 mm	ø 4,5 mm
	4 - 5 Charr.	6 Charr.	7 - 8 Charr.	13 - 14 Charr.	16 - 17 Charr.
13 cm/5"	<b>440-286-13</b>	<b>440-287-13</b>	<b>440-288-13</b>	<b>440-289-13</b>	
15 cm/6"	<b>440-286-15</b>	<b>440-287-15</b>	<b>440-288-15</b>	<b>440-289-15</b>	
18 cm/7"	<b>440-286-18</b>	<b>440-287-18</b>	<b>440-288-18</b>	<b>440-289-18</b>	<b>440-289-45</b>
22 cm/8¾"	<b>440-286-22</b>	<b>440-287-22</b>	<b>440-288-22</b>	<b>440-289-22</b>	

**Suction Cannulae with finger cut-off and stylet**  
Saugkanülen mit Unterbrecher und Mandrin  
Canules d'aspiration avec interrupteur à doigt  
Cánulas para aspiración con interruptor y estilete  
Cannule per aspirazione con interruttore e stiletto



**ADSON**  
16,5 cm/6½"  
ø 3 mm

**440-290-16**



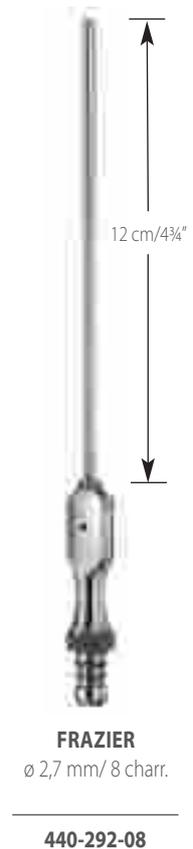
**ADSON**  
21 cm/8¼"  
ø 4 mm

**440-290-21**



**FRAZIER**  
24 cm/9½"  
ø 3,3 mm

**440-290-24**



**FRAZIER**  
ø 2,7 mm/ 8 charr.

**440-292-08**



**YANKAUER**  
 28,5 cm/11¼"

**with central bore**  
 mit zentraler Bohrung  
 avec trou central  
 con un foro centrale  
 con un agujero central

ø 2,0 mm	<b>104-149-27</b>
ø 4,8 mm	<b>104-148-27</b>



**MAGILL**  
 24,5 cm/9¾"

Fig. 1	ø 3,0 mm	<b>104-155-30</b>
Fig. 2	ø 3,5 mm	<b>104-155-35</b>
Fig. 3	ø 4,0 mm	<b>104-155-40</b>

**Stylet**  
 Mandrin  
 Doigt  
 Esfilete  
 Stiletto

**104-155-99**

## SUCTION TUBES

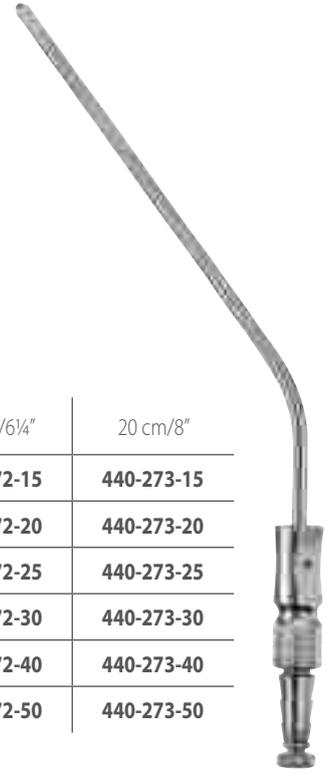
Olive ø 7 - 9 mm  
Schlaucholive ø 7 - 9 mm  
Olive ø 7 - 9 mm  
Oliva ø 7 - 9 mm  
Oliva ø 7 - 9 mm



**LEMPERT**  
20 cm/8"

ø 2 mm	<b>440-283-02</b>
ø 3 mm	<b>440-283-03</b>

Ø mm	F.G. Charr.	11 cm/4¼"	13 cm/5"	16 cm/6¼"	20 cm/8"
ø 1,5 mm	4 - 5	<b>440-270-15</b>	<b>440-271-15</b>	<b>440-272-15</b>	<b>440-273-15</b>
ø 2,0 mm	6	<b>440-270-20</b>	<b>440-271-20</b>	<b>440-272-20</b>	<b>440-273-20</b>
ø 2,5 mm	7 - 8	<b>440-270-25</b>	<b>440-271-25</b>	<b>440-272-25</b>	<b>440-273-25</b>
ø 3,0 mm	9	<b>440-270-30</b>	<b>440-271-30</b>	<b>440-272-30</b>	<b>440-273-30</b>
ø 4,0 mm	12	<b>440-270-40</b>	<b>440-271-40</b>	<b>440-272-40</b>	<b>440-273-40</b>
ø 5,0 mm	15	<b>440-270-50</b>	<b>440-271-50</b>	<b>440-272-50</b>	<b>440-273-50</b>



**FERGUSSON**

insulated  
isoliert  
isolée  
aislados  
isolato

**Suction Cannulae with finger cut-off and stylet**  
Saugkanülen mit Unterbrecher und Mandrin  
Canules d'aspiration avec interrupteur à doigt  
Cánulas para aspiración con interruptor y estilete  
Cannule per aspirazione con interruttore e stiletto

Olive ø 6 - 9 mm  
Schlaucholive ø 6 - 9 mm  
Olive ø 6 - 9 mm  
Oliva ø 6 - 9 mm  
Oliva ø 6 - 9 mm



**FERGUSSON**  
18 cm/7"  
ø 4 mm

**440-291-04**

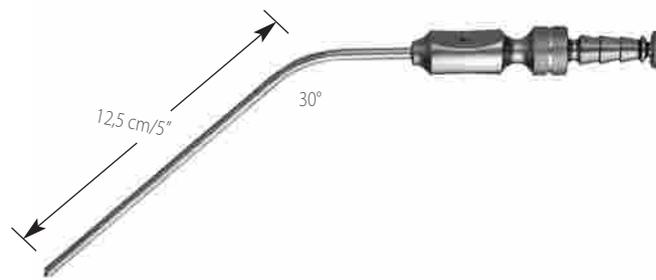
F.G. Charr.	Ø mm	30°	75°
6	2,0	<b>440-295-06</b>	<b>440-297-06</b>
7	2,3	<b>440-295-07</b>	<b>440-297-07</b>
8	2,7	<b>440-295-08</b>	<b>440-297-08</b>
9	3,0	<b>440-295-09</b>	<b>440-297-09</b>
10	3,3	<b>440-295-10</b>	<b>440-297-10</b>
11	3,7	<b>440-295-11</b>	<b>440-297-11</b>
12	4,0	<b>440-295-12</b>	<b>440-297-12</b>
15	5,0	<b>440-295-15</b>	<b>440-297-15</b>



**FRAZIER**  
19 cm/7½"

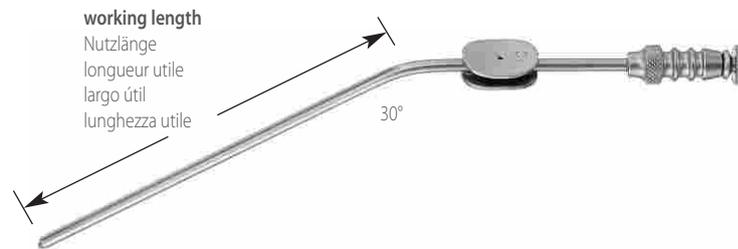
### Suction Tubes

Saugrohre  
Tubes d'aspiration  
Tubos de aspiración  
Tubi d'aspirazione



**FRAZIER**

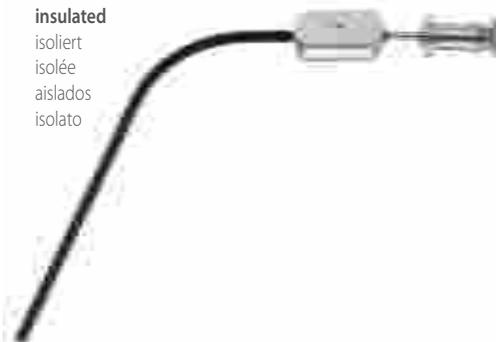
Charr. 6	<b>440-293-06</b>
Charr. 8	<b>440-293-08</b>
Charr. 9	<b>440-293-09</b>
Charr. 10	<b>440-293-10</b>
Charr. 12	<b>440-293-12</b>



**FRAZIER**

F.G. Charr.	Ø mm	12,5 cm/5"	18 cm/7"
Charr. 6	2,0	<b>440-296-06</b>	<b>440-296-16</b>
Charr. 8	2,7	<b>440-296-08</b>	<b>440-296-18</b>
Charr. 10	3,3	<b>440-296-10</b>	<b>440-296-30</b>
Charr. 12	4,0	<b>440-296-12</b>	<b>440-296-32</b>

**insulated**  
isoliert  
isolée  
aislados  
isolato



**FRAZIER**  
19 cm/7½"

Charr. 7	<b>440-299-07</b>
Charr. 9	<b>440-299-09</b>
Charr. 11	<b>440-299-11</b>

**tip 6.5 mm wide**  
 Spitze 6,5 mm breit  
 6,5 mm de large  
 6,5 mm de ancho  
 6,5 mm di larghezza



**Olive ø 6 - 9 mm**  
 Schlaucholive ø 6 - 9 mm  
 Olive ø 6 - 9 mm  
 Oliva ø 6 - 9 mm  
 Oliva ø 6 - 9 mm

18 cm/7"  
 ø 5 mm

**440-294-05**



**Olive ø 6 - 9 mm**  
 Schlaucholive ø 6 - 9 mm  
 Olive ø 6 - 9 mm  
 Oliva ø 6 - 9 mm  
 Oliva ø 6 - 9 mm

**LUER**  
 17,5 cm/7"

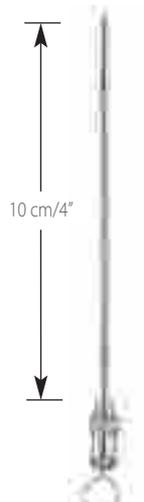
ø 4,5 mm	<b>440-307-45</b>
ø 5,5 mm	<b>440-307-55</b>



**Olive ø 6 - 9 mm**  
 Schlaucholive ø 6 - 9 mm  
 Olive ø 6 - 9 mm  
 Oliva ø 6 - 9 mm  
 Oliva ø 6 - 9 mm

**PLESTER**  
 19 cm/7½"

4-5 charr.	ø 1,5 mm	<b>440-313-15</b>
6 charr.	ø 2,0 mm	<b>440-313-20</b>
7-8 charr.	ø 2,5 mm	<b>440-313-25</b>
9 charr.	ø 3,0 mm	<b>440-313-30</b>



10 cm/4"

**FRAZIER**  
12 cm/4¾"

ø 2,0 mm	<b>440-298-08</b>
ø 2,5 mm	<b>440-298-10</b>
ø 3,0 mm	<b>440-298-12</b>



7 cm/2¾"

ø 2,0 mm	<b>440-300-20</b>
ø 2,5 mm	<b>440-300-25</b>



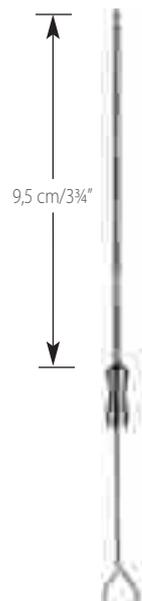
**CONE**  
9 cm/3½"

12 G.	Ø 2,64 mm	<b>440-302-12</b>
13 G.	Ø 2,24 mm	<b>440-302-13</b>
14 G.	Ø 2,03 mm	<b>440-302-14</b>
15 G.	Ø 1,83 mm	<b>440-302-15</b>
16 G.	Ø 1,62 mm	<b>440-302-16</b>
17 G.	Ø 1,42 mm	<b>440-302-17</b>
18 G.	Ø 1,22 mm	<b>440-302-18</b>
20 G.	Ø 0,91 mm	<b>440-302-20</b>



**JEFFERSON**

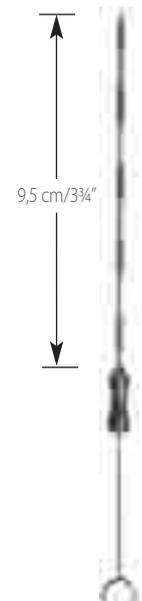
8 cm/3¼"	<b>440-301-08</b>
10 cm/4"	<b>440-301-10</b>



9,5 cm/3¾"

**DANDY**

ø 2,0 mm	<b>440-303-20</b>
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9,5 cm/3¾"

**CUSHING-CAIRNS**

ø 2,3 mm	<b>440-304-23</b>
ø 2,6 mm	<b>440-304-26</b>

## SUCTION TUBES



**ZOELLNER**  
18 cm/7"

**440-283-70**



**ZOELLNER**  
5,5 cm/2"

ø 1,2 mm / 18 swg	<b>440-283-71</b>
ø 1,0 mm / 20 swg	<b>440-283-72</b>
ø 0,7 mm / 22 swg	<b>440-283-73</b>
ø 0,5 mm / 24 swg	<b>440-283-74</b>
ø 0,4 mm / 26 swg	<b>440-283-75</b>

**Olive ø 8 mm**  
Schlaucholive ø 8 mm  
Olive ø 8 mm  
Oliva ø 8 mm  
Oliva ø 8 mm



**WULLSTEIN**

**complete, with handle and 3 tips**  
Komplett, mit Griff und drei Ausfätzen  
complet, avec manche et 3 pointes  
completo, con mango y 3 puntas  
completo, con manico e 3 punte

**440-308-00**

**Suction Handle**  
Saugerhandgriff  
Manche pour canule  
Mango para cánula  
Manico d'aspirazione

14 cm/5½"

**440-308-01**



4,5 cm/1¾"  
ø 0,4 mm

**440-308-04**



4,5 cm/1¾"  
ø 0,6 mm

**440-308-06**



4,5 cm/1¾"  
ø 0,8 mm

**440-308-08**

**Micro suction cannula**  
Mikro-Saugkanüle  
Tube micro d'aspiration  
Micro tubo de aspiración  
Micro-cannula d'aspirazione

**complete, with handle and 4 tips (x 2)**  
Komplett, mit Griff und 4 Ausfätzen (x 2)  
complet, avec manche et 4 pointes (x 2)  
completo, con mango y 4 puntas (x 2)  
completo, con manico e 4 punte (x 2)

**440-309-00**



**Suction Handle**  
Saugerhandgriff  
Manche pour canule  
Mango para cánula  
Manico d'aspirazione

**440-309-01**



ø 0,5 mm	<b>440-309-02</b>
ø 0,7 mm	<b>440-309-03</b>
ø 1,0 mm	<b>440-309-04</b>
ø 1,3 mm	<b>440-309-05</b>

**complete, with handle and 3 tips**  
Komplett, mit Griff und drei Ausfätzen  
complet, avec manche et 3 pointes  
completo, con mango y 3 puntas  
completo, con manico e 3 punte

**BELLUCCI**

**440-310-00**



**Olive ø 8 mm**  
Schlaucholive ø 8 mm  
Olive ø 8 mm  
Oliva ø 8 mm  
Oliva ø 8 mm

**BELLUCCI**  
15,5 cm/6"

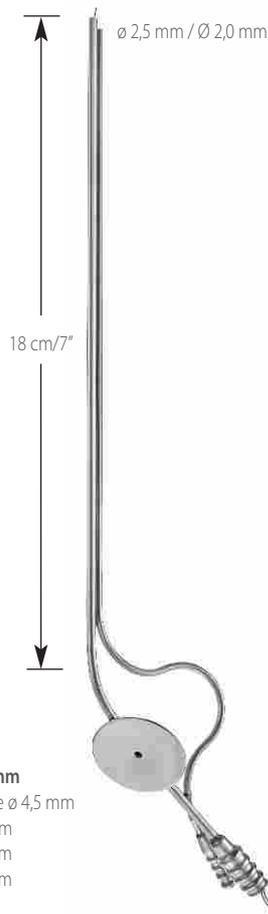
**440-310-01**



ø 1,0 mm / 20 swg	<b>440-310-02</b>
ø 0,7 mm / 22 swg	<b>440-310-03</b>
ø 0,5 mm / 24 swg	<b>440-310-04</b>

**with finger cut-off and stylet**

mit Saugunterbrecher und Mandrin  
 avec interrupteur à doigt  
 con interruptor y estilete  
 con interruttore e stiletto



**Olive ø 4,5 mm**  
 Schlaucholive ø 4,5 mm  
 Olive ø 4,5 mm  
 Oliva ø 4,5 mm  
 Oliva ø 4,5 mm

**FISCH**

**440-331-17**

**Suction and Irrigation Cannula**

Saug- und Spülkanüle  
 Instruments à aspiration et à irrigation  
 Instrumentos de aspiración y de lavado  
 Strumenti per aspirazione e lavaggio



**YASARGIL**

20 cm/8"  
 Ø 2,0/4,5 mm

**440-332-20**

**Suction raspatory**

Präpariersauger  
 Aspirateur pour préparation  
 Aspirador para preparación  
 Aspiratore per preparazione

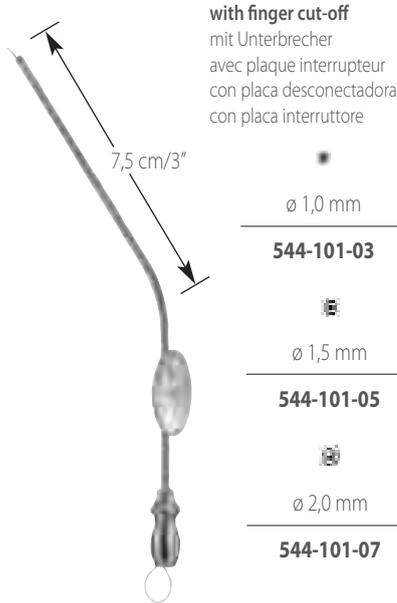


**LANDOLT**

20 cm/8"  
 Ø 3,2 mm

**440-333-20**

## SUCTION TUBES



**with finger cut-off**  
mit Unterbrecher  
avec plaque interrupteur  
con placa desconectadora  
con placa interruttore

ø 1,0 mm

**544-101-03**

ø 1,5 mm

**544-101-05**

ø 2,0 mm

**544-101-07**

**BARON**



**SCHUHKNECHT**

13 cm / 5"

ø 0,9 mm / 20 swg

**544-102-20**

ø 0,6 mm / 24 swg

**544-102-24**

**Suction adapter with finger cut-off**  
Saugadapter mit Saugunterbrecher  
Adaptateur d'aspiration avec interrupteur  
Adaptador para aspiración con interruptor  
Adattator per aspirazione con interruttore



**Olive ø 7 mm**

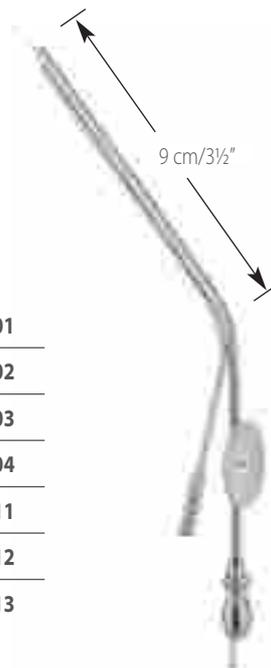
Schlaucholive ø 7 mm  
Olive ø 7 mm  
Oliva ø 7 mm  
Oliva ø 7 mm

**HOUSE**

5,5 cm / 2 1/4"

**544-104-00**

suction tube Saugrohr à aspiration de aspiración per aspirazione	irrigation tube Spülrrohr à irrigation de lavado per lavaggio	
ø 1,8 mm	ø 1,8 mm	<b>544-103-01</b>
ø 2,0 mm	ø 2,0 mm	<b>544-103-02</b>
ø 3,0 mm	ø 2,0 mm	<b>544-103-03</b>
ø 4,5 mm	ø 2,0 mm	<b>544-103-04</b>
ø 0,9 mm	ø 0,7 mm	<b>544-103-11</b>
ø 1,2 mm	ø 0,9 mm	<b>544-103-12</b>
ø 1,5 mm	ø 1,2 mm	<b>544-103-13</b>



**HOUSE**



**VERHOEVEN**

10 cm / 4"

ø 1,6 mm / 16 swg

**544-105-16**

ø 1,2 mm / 18 swg

**544-105-18**

ø 0,9 mm / 20 swg

**544-105-20**

ø 0,7 mm / 22 swg

**544-105-22**

ø 0,6 mm / 24 swg

**544-105-24**

17 |

## RONGEURS

STANZEN

GOUGES

GUBIAS

SGORBIE

# 17

## RONGEURS

Rongeurs  
Rongeur  
Gouges  
Gubias  
Sgorbie



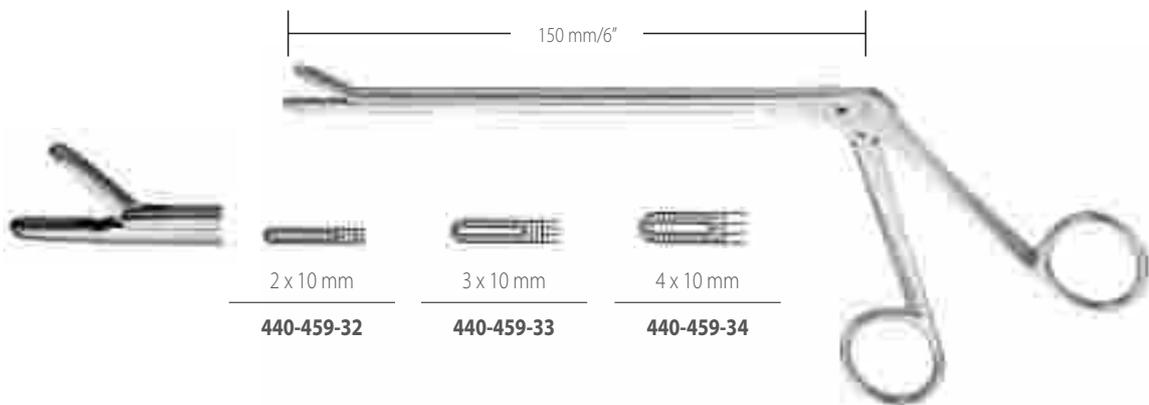
**BECK**

440-413-02



**PENNYBACKER**

440-423-03

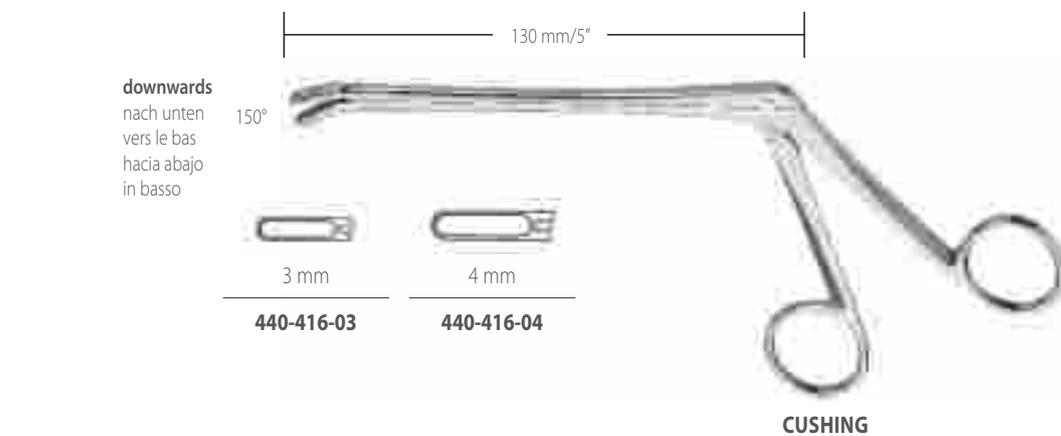
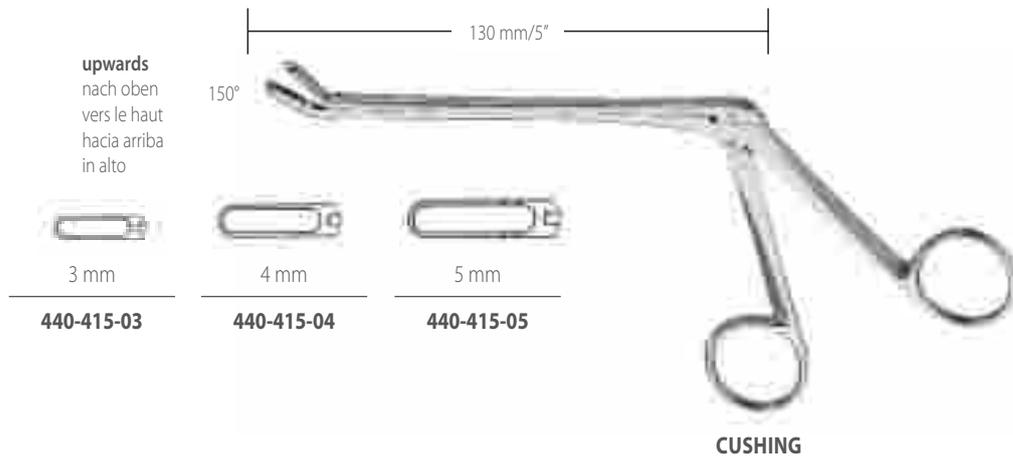
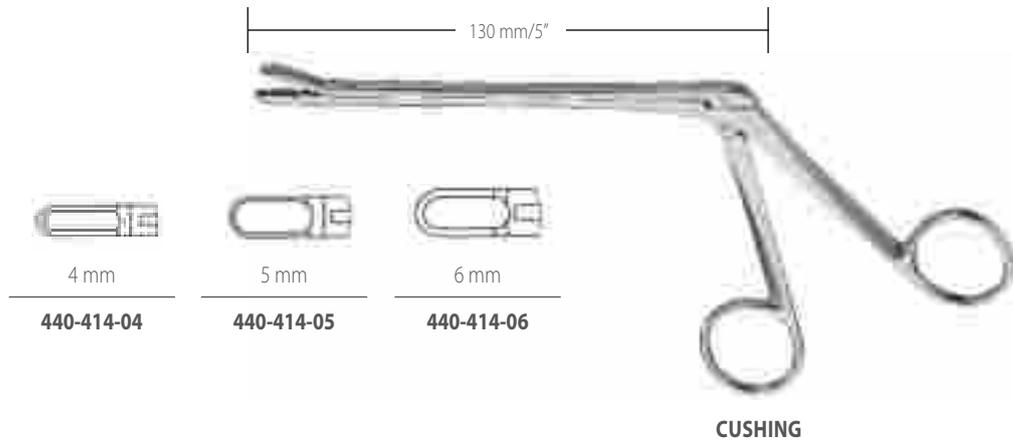


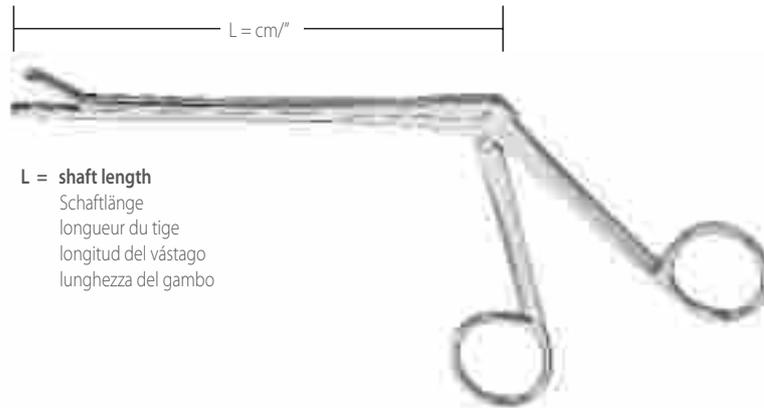
**SCHLESINGER**

440-459-32

440-459-33

440-459-34





**L = shaft length**  
Schaftlänge  
longueur du tige  
longitud del vástago  
lunghezza del gambo

2 x 10 mm



#### CUSHING

straight	12,5 cm/5"	<b>440-420-01</b>
gerade		
droite	15,0 cm/6"	<b>440-421-01</b>
recta		
diritta	18,0 cm/7"	<b>440-422-01</b>

2 x 10 mm



#### CUSHING

upwards	12,5 cm/5"	<b>440-420-02</b>
nach oben		
vers le haut	15,0 cm/6"	<b>440-421-02</b>
hacia arriba		
in alto	18,0 cm/7"	<b>440-422-02</b>

2 x 10 mm



#### CUSHING

downwards	12,5 cm/5"	<b>440-420-03</b>
nach unten		
vers le bas	15,0 cm/6"	<b>440-421-03</b>
hacia abajo		
in basso	18,0 cm/7"	<b>440-422-03</b>

3x 10 mm



#### LOVE-GRUENWALD

straight	12,5 cm/5"	<b>440-430-01</b>
gerade		
droite	15,0 cm/6"	<b>440-431-01</b>
recta		
diritta	18,0 cm/7"	<b>440-432-01</b>

3 x 10 mm



#### LOVE-GRUENWALD

upwards	12,5 cm/5"	<b>440-430-02</b>
nach oben		
vers le haut	15,0 cm/6"	<b>440-431-02</b>
hacia arriba		
in alto	18,0 cm/7"	<b>440-432-02</b>

3 x 10 mm



#### LOVE-GRUENWALD

downwards	12,5 cm/5"	<b>440-430-03</b>
nach unten		
vers le bas	15,0 cm/6"	<b>440-431-03</b>
hacia abajo		
in basso	18,0 cm/7"	<b>440-432-03</b>

4 x 10 mm



#### SPURLING

straight	12,5 cm/5"	<b>440-440-01</b>
gerade		
droite	15,0 cm/6"	<b>440-441-01</b>
recta		
diritta	18,0 cm/7"	<b>440-442-01</b>

4 x 10 mm



#### SPURLING

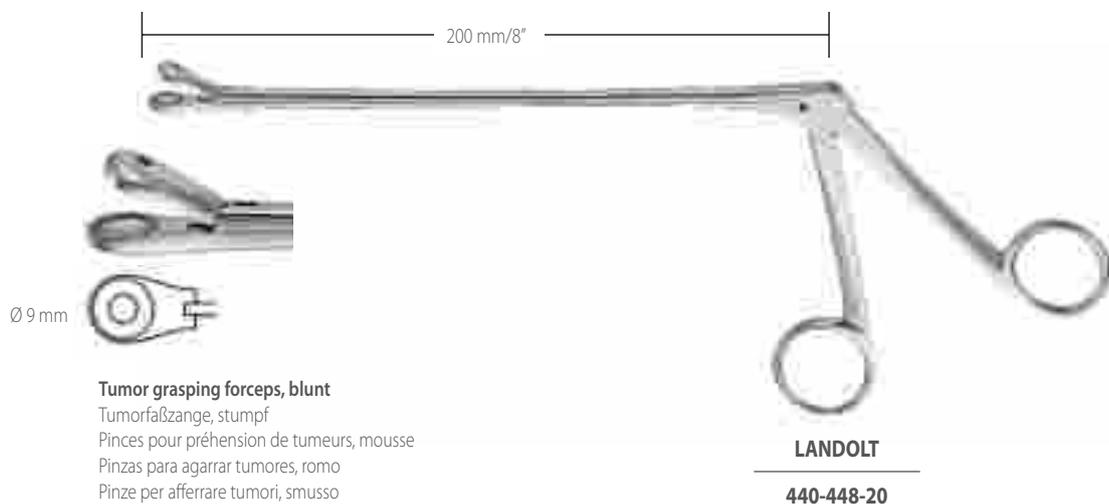
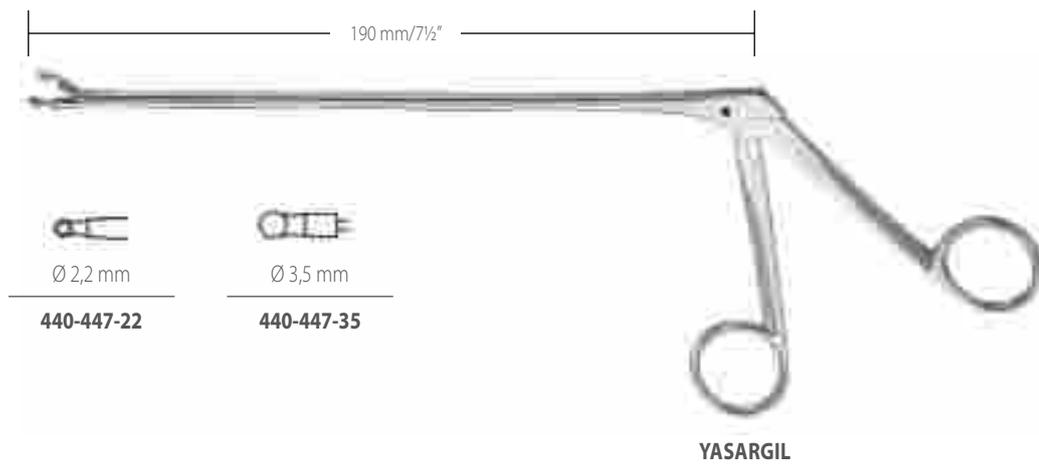
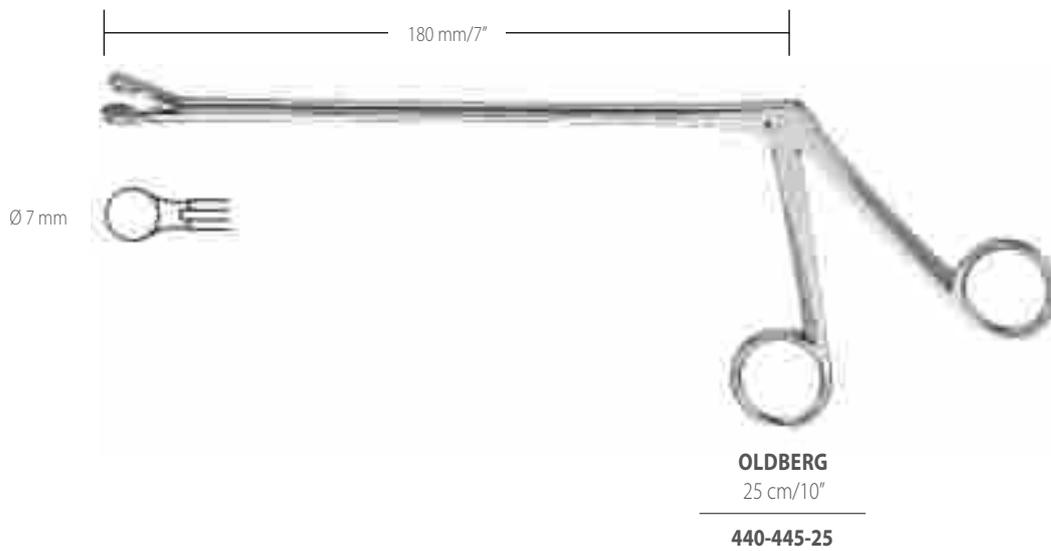
upwards	12,5 cm/5"	<b>440-440-02</b>
nach oben		
vers le haut	15,0 cm/6"	<b>440-441-02</b>
hacia arriba		
in alto	18,0 cm/7"	<b>440-442-02</b>

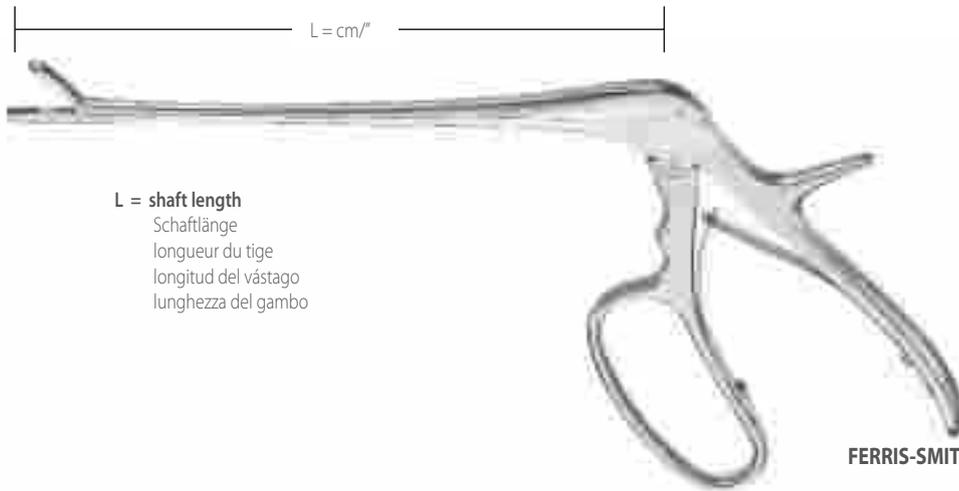
4 x 10 mm



#### SPURLING

downwards	12,5 cm/5"	<b>440-440-03</b>
nach unten		
vers le bas	15,0 cm/6"	<b>440-441-03</b>
hacia abajo		
in basso	18,0 cm/7"	<b>440-442-03</b>





**L = shaft length**  
 Schaftlänge  
 longueur du tige  
 longitud del vástago  
 lunghezza del gambo

**FERRIS-SMITH-CUSHING**

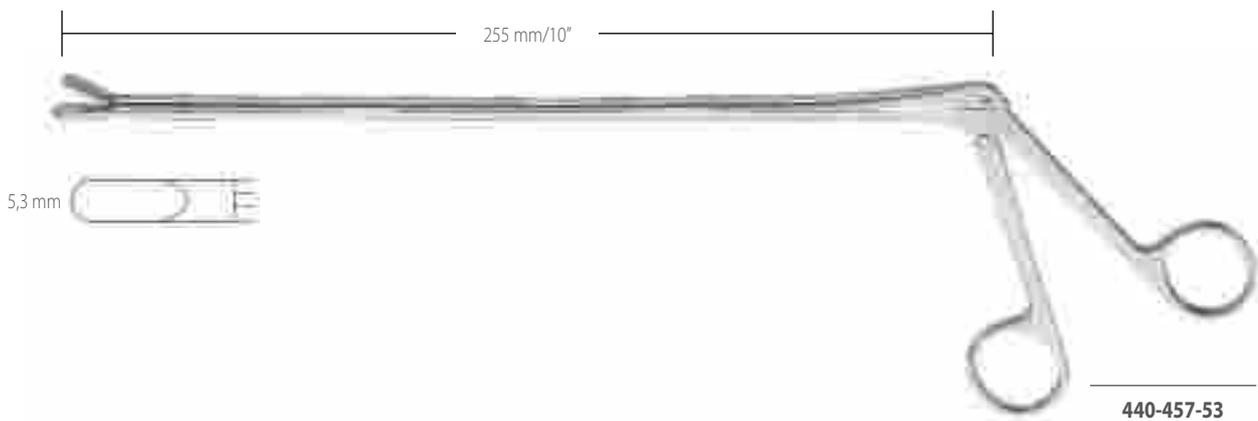


**straight**  
 gerade  
 droite  
 recta  
 diritta

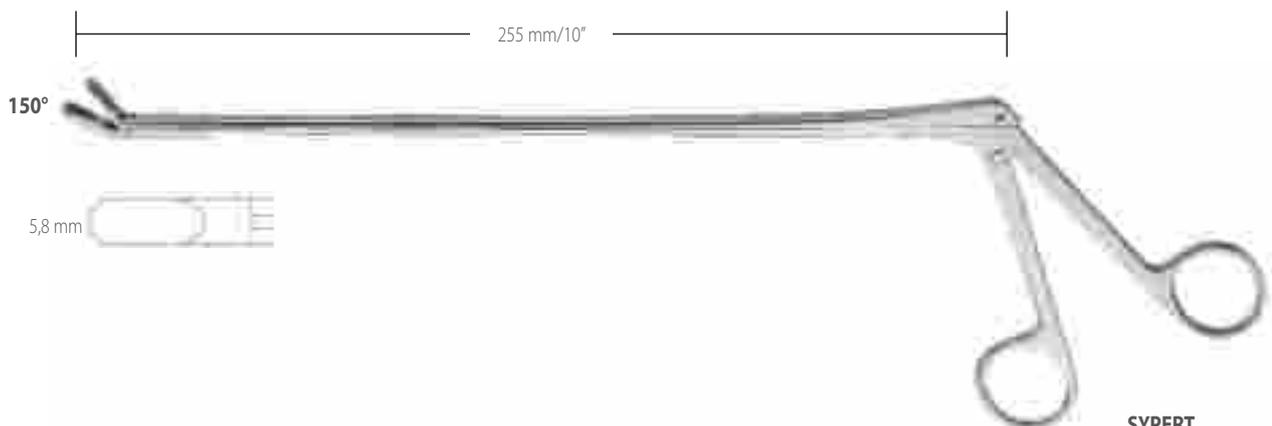
**upwards**  
 nach oben  
 vers le haut  
 hacia arriba  
 in alto

**downwards**  
 nach unten  
 vers le bas  
 hacia abajo  
 in basso

	16 cm/6¼"	18 cm/7"	16 cm/6¼"	18 cm/7"	16 cm/6¼"	18 cm/7"
2 x 10 mm		<b>440-451-01</b>		<b>440-451-02</b>		<b>440-451-03</b>
3 x 10 mm	<b>440-450-01</b>	<b>440-452-01</b>	<b>440-450-02</b>	<b>440-452-02</b>	<b>440-450-03</b>	<b>440-452-03</b>
4 x 10 mm		<b>440-453-01</b>		<b>440-453-02</b>		<b>440-453-03</b>

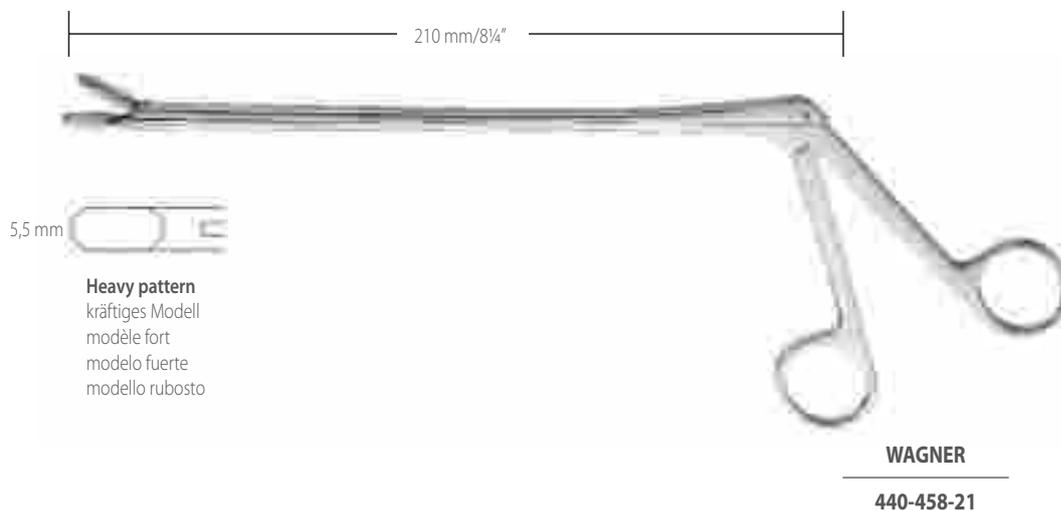
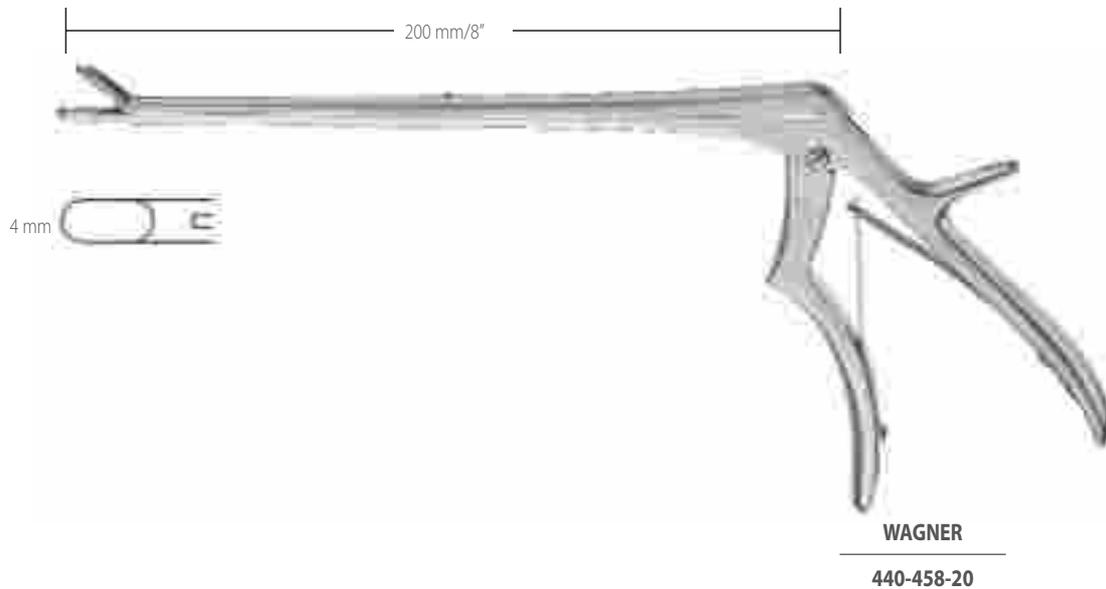
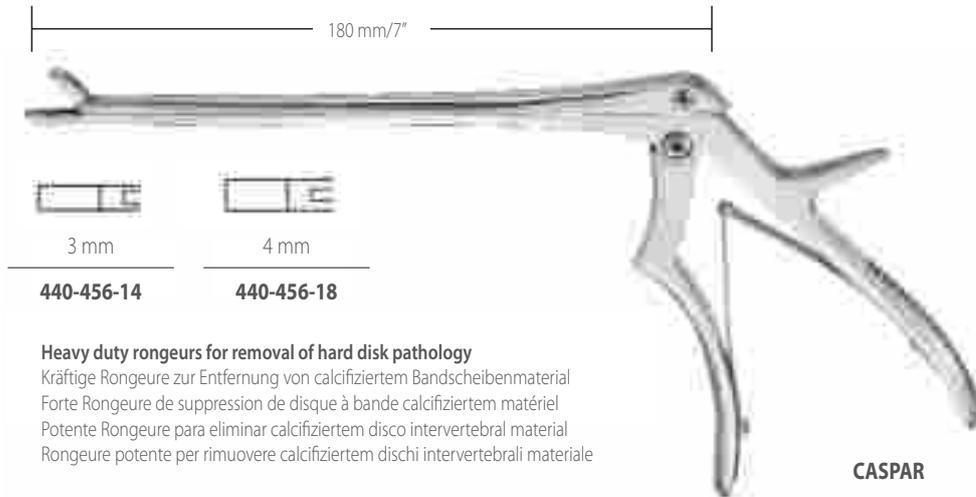


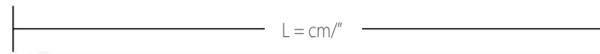
**440-457-53**



**SYPERT**

**440-457-58**





straight  
gerade  
droite  
recta  
diritta

L = shaft length

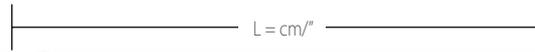
Schaftlänge  
longueur du tige  
longitud del vástago  
lunghezza del gambo



CASPAR



	2 x 12 mm	3 x 12 mm	4 x 14 mm	5 x 14 mm	6 x 16 mm
14 cm/5½"	<b>440-460-20</b>	<b>440-460-30</b>	<b>440-460-40</b>	<b>440-460-50</b>	<b>440-460-60</b>
16 cm/6¼"	<b>440-464-20</b>	<b>440-464-30</b>	<b>440-464-40</b>	<b>440-464-50</b>	<b>440-464-60</b>
18,5 cm/7¼"	<b>440-468-20</b>	<b>440-468-30</b>	<b>440-468-40</b>	<b>440-468-50</b>	<b>440-468-60</b>

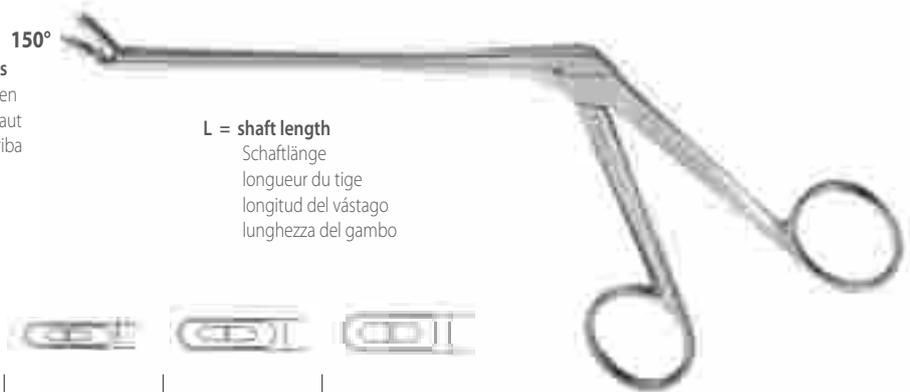


150°

upwards  
nach oben  
vers le haut  
hacia arriba  
in alto

L = shaft length

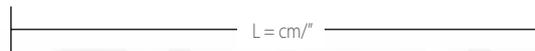
Schaftlänge  
longueur du tige  
longitud del vástago  
lunghezza del gambo



CASPAR



	2 x 12 mm	2,5 x 12 mm	3 x 12 mm	4 x 14 mm	5 x 14 mm
14 cm/5½"	<b>440-461-20</b>	<b>440-461-25</b>		<b>440-461-40</b>	<b>440-461-50</b>
16 cm/6¼"	<b>440-465-20</b>	<b>440-465-25</b>		<b>440-465-40</b>	<b>440-465-50</b>
18,5 cm/7¼"			<b>440-469-30</b>	<b>440-469-40</b>	<b>440-469-50</b>



150°

downwards  
nach unten  
vers le bas  
hacia abajo  
in basso

L = shaft length

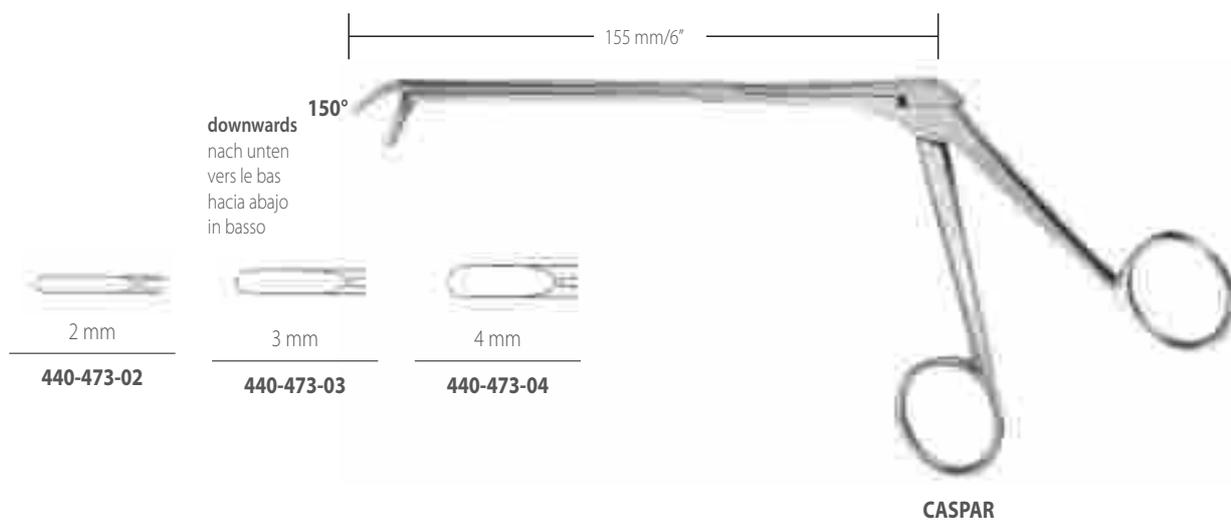
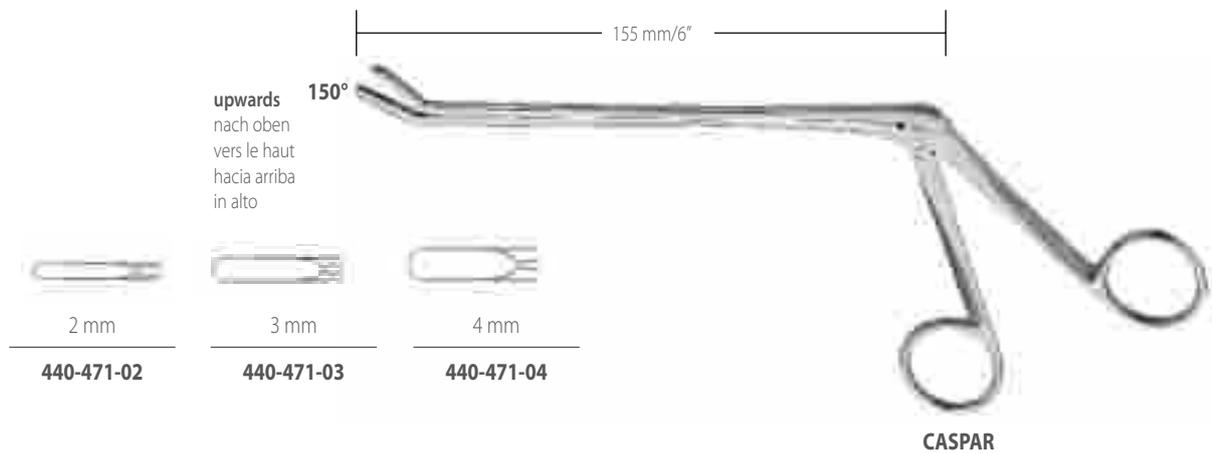
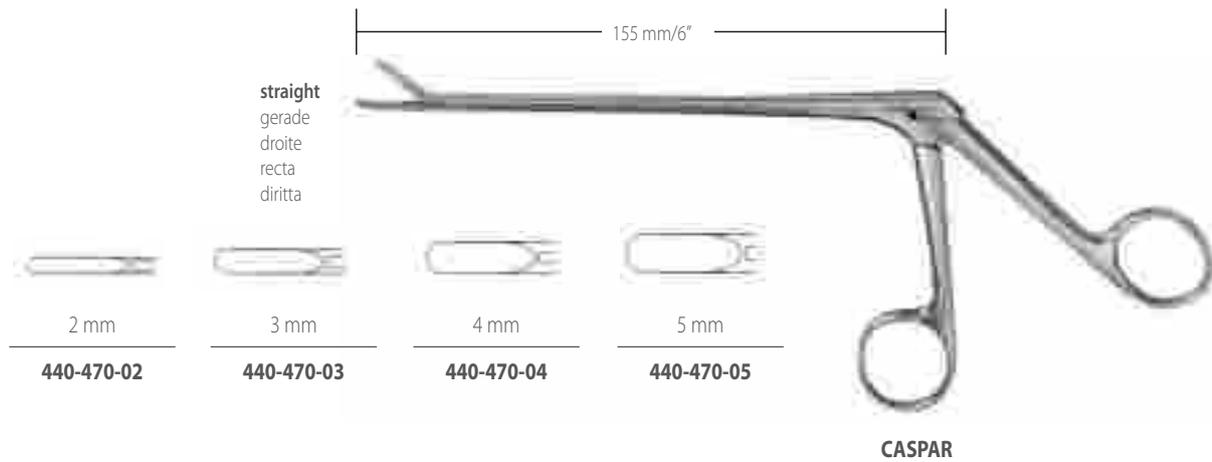
Schaftlänge  
longueur du tige  
longitud del vástago  
lunghezza del gambo

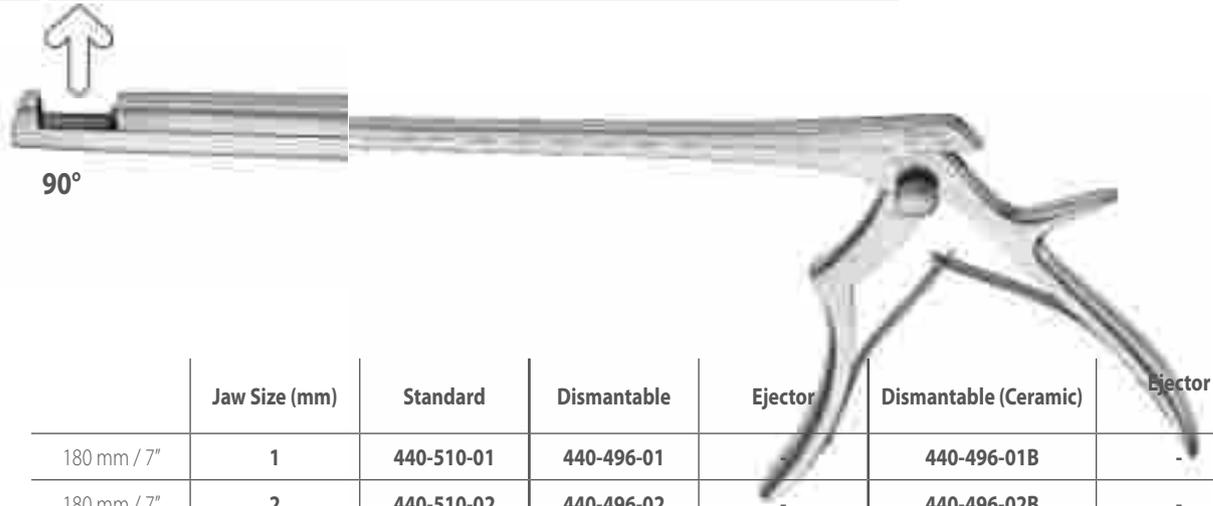


CASPAR

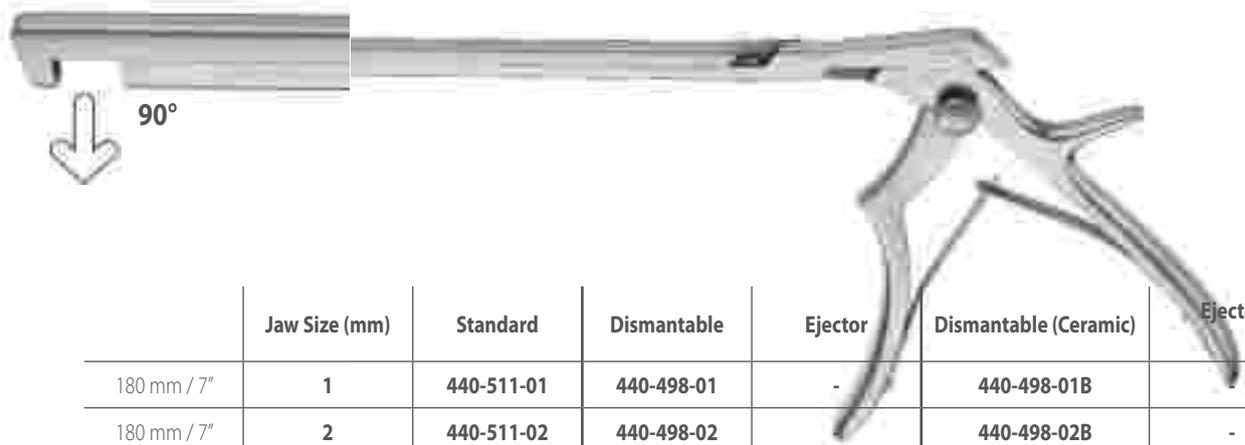


	2 x 12 mm	2,5 x 12 mm	3 x 12 mm	4 x 14 mm
14 cm/5½"	<b>440-463-20</b>	<b>440-463-25</b>		<b>440-463-40</b>
16 cm/6¼"	<b>440-467-20</b>	<b>440-467-25</b>		<b>440-467-40</b>
18,5 cm/7¼"			<b>440-475-30</b>	<b>440-475-40</b>





	Jaw Size (mm)	Standard	Dismantable	Ejector	Dismantable (Ceramic)	Ejector	
	180 mm / 7"	1	440-510-01	440-496-01	-	440-496-01B	-
	180 mm / 7"	2	440-510-02	440-496-02	-	440-496-02B	-
	180 mm / 7"	3	440-510-03	440-496-03		440-496-03B	
	180 mm / 7"	4	440-510-04	440-496-04		440-496-04B	
	180 mm / 7"	5	440-510-05	440-496-05		440-496-05B	
	180 mm / 7"	6	440-510-06	440-496-06		440-496-06B	
	200 mm / 8"	1	440-510-11	440-496-11		440-496-11B	
	200 mm / 8"	2	440-510-12	440-496-12		440-496-12B	
	200 mm / 8"	3	440-510-13	440-496-13		440-496-13B	
	200 mm / 8"	4	440-510-14	440-496-14		440-496-14B	
	200 mm / 8"	5	440-510-15	440-496-15		440-496-15B	
	200 mm / 8"	6	440-510-16	440-496-16		440-496-16B	
	230 mm / 9"	1	440-510-21	-	-	-	-
	230 mm / 9"	2	440-510-22	440-497-02	-	440-497-02B	-
	230 mm / 9"	3	440-510-23	440-497-03		440-497-03B	
	230 mm / 9"	4	440-510-24	440-497-04		440-497-04B	
	230 mm / 9"	5	440-510-25	440-497-05		440-497-05B	
	230 mm / 9"	6	440-510-26	440-497-06		440-497-06B	
	180 mm / 7"	1	440-510-31	440-496-21	-	440-496-21B	-
	180 mm / 7"	2	440-510-32	440-496-22	-	440-496-22B	-
	180 mm / 7"	3	440-510-33	440-496-23		440-496-23B	
	180 mm / 7"	4	440-510-34	440-496-24		440-496-24B	
	180 mm / 7"	5	440-510-35	440-496-25		440-496-25B	
thin foot plate	200 mm / 8"	2	440-510-42	440-496-32	-	440-496-32B	
dünnfuß	200 mm / 8"	3	440-510-43	440-496-33		440-496-33B	
poinçonnage étroite	200 mm / 8"	4	440-510-44	440-496-34		440-496-34B	
punzonar estrecha	200 mm / 8"	5	440-510-45	440-496-35		440-496-35B	
sottile	200 mm / 8"	6	440-510-46	440-496-36		440-496-36B	
	230 mm / 9"	2	440-510-52	440-497-12	-	440-497-12B	-
	230 mm / 9"	3	440-510-53	440-497-13		440-497-13B	
	230 mm / 9"	4	440-510-54	440-497-14		440-497-14B	
	230 mm / 9"	5	440-510-55	440-497-15		440-497-15B	
	230 mm / 9"	6	440-510-56	440-497-16		440-497-16B	



	Jaw Size (mm)	Standard	Dismantable	Ejector	Dismantable (Ceramic)	Ejector	
	180 mm / 7"	1	440-511-01	440-498-01	-	440-498-01B	-
	180 mm / 7"	2	440-511-02	440-498-02		440-498-02B	-
	180 mm / 7"	3	440-511-03	440-498-03		440-498-03B	
	180 mm / 7"	4	440-511-04	440-498-04		440-498-04B	
	180 mm / 7"	5	440-511-05	440-498-05		440-498-05B	
	180 mm / 7"	6	440-511-06	440-498-06		440-498-06B	
	200 mm / 8"	1	440-499-11	440-498-11		440-498-11B	
	200 mm / 8"	2	440-499-12	440-498-12		440-498-12B	
	200 mm / 8"	3	440-499-13	440-498-13		440-498-13B	
	200 mm / 8"	4	440-499-14	440-498-14		440-498-14B	
	200 mm / 8"	5	440-499-15	440-498-15		440-498-15B	
	200 mm / 8"	6	440-499-16	440-498-16		440-498-16B	
	230 mm / 9"	2	440-499-42	440-499-02		440-499-02B	
	230 mm / 9"	3	440-499-43	440-499-03		440-499-03B	
	230 mm / 9"	4	440-499-44	440-499-04		440-499-04B	
	230 mm / 9"	5	440-499-45	440-499-05		440-499-05B	
	230 mm / 9"	6	440-499-46	440-499-06		440-499-06B	
	180 mm / 7"	1	440-499-21	440-498-21	-	440-498-21B	-
	180 mm / 7"	2	440-499-22	440-498-22	-	440-498-22B	-
	180 mm / 7"	3	440-499-23	440-498-23		440-498-23B	
	180 mm / 7"	4	440-499-24	440-498-24		440-498-24B	
	180 mm / 7"	5	440-499-25	440-498-25		440-498-25B	
	200 mm / 8"	1	440-499-31	440-498-31	-	440-498-31B	-
	200 mm / 8"	2	440-499-32	440-498-32	-	440-498-32B	-
	200 mm / 8"	3	440-499-33	440-498-33		440-498-33B	
	200 mm / 8"	4	440-499-34	440-498-34		440-498-34B	
	200 mm / 8"	5	440-499-35	440-498-35		440-498-35B	
	230 mm / 9"	2	440-499-52	440-498-52		440-498-52B	
	230 mm / 9"	3	440-499-53	440-498-53		440-498-53B	
	230 mm / 9"	4	440-499-54	440-498-54		440-498-54B	
	230 mm / 9"	5	440-499-55	440-498-55		440-498-55B	

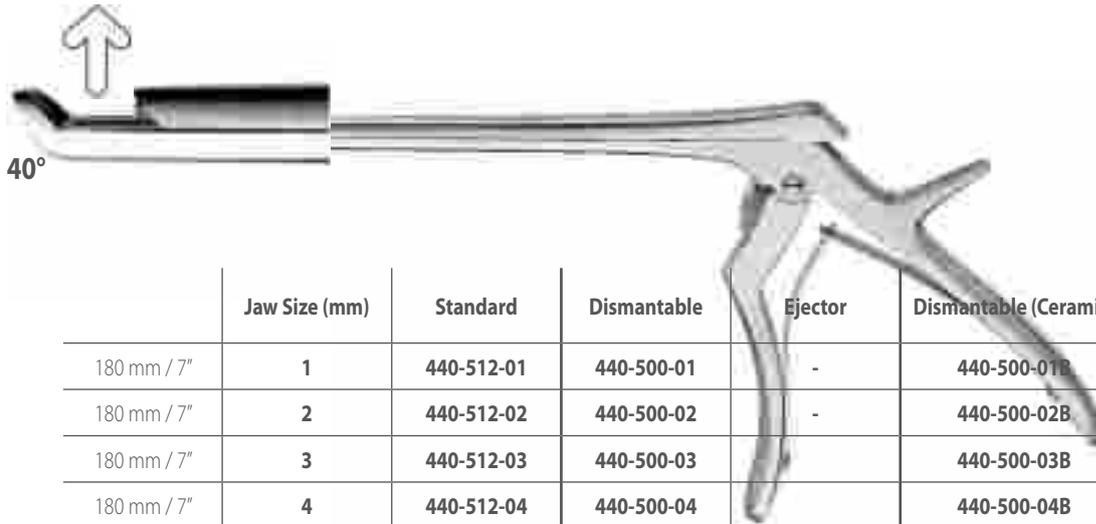
thin  
foot plate

dünnfuß

poinçonnage  
étroite

punzonar  
estrecha

sottile



	Jaw Size (mm)	Standard	Dismantable	Ejector	Dismantable (Ceramic)	Ejector
180 mm / 7"	1	440-512-01	440-500-01	-	440-500-01B	-
180 mm / 7"	2	440-512-02	440-500-02	-	440-500-02B	-
180 mm / 7"	3	440-512-03	440-500-03		440-500-03B	
180 mm / 7"	4	440-512-04	440-500-04		440-500-04B	
180 mm / 7"	5	440-512-05	440-500-05		440-500-05B	
180 mm / 7"	6	440-512-06	440-500-06		440-500-06B	
200 mm / 8"	2	440-511-22	440-501-02	-	440-501-02B	-
200 mm / 8"	3	440-511-23	440-501-03		440-501-03B	
200 mm / 8"	4	440-511-24	440-501-04		440-501-04B	
200 mm / 8"	5	440-511-25	440-501-05		440-501-05B	
200 mm / 8"	6	440-511-26	440-501-06		440-501-06B	
230 mm / 9"	2	440-542-02	440-502-02	-	440-502-02B	-
230 mm / 9"	3	440-542-03	440-502-03		440-502-03B	
230 mm / 9"	4	440-542-04	440-502-04		440-502-04B	
230 mm / 9"	5	440-542-05	440-502-05		440-502-05B	
280 mm / 11"	2	440-511-32	-	-	-	-
280 mm / 11"	3	440-511-33	-	-	-	-
280 mm / 11"	4	440-511-34	-	-	-	-
280 mm / 11"	5	440-511-35	-	-	-	-
280 mm / 11"	6	440-511-36	-	-	-	-
180 mm / 7"	1	440-511-11	440-500-11	-	440-500-11B	-
180 mm / 7"	2	440-511-12	440-500-12	-	440-500-12B	-
180 mm / 7"	3	440-511-13	440-500-13		440-500-13B	
180 mm / 7"	4	440-511-14	440-500-14		440-500-14B	
180 mm / 7"	5	440-511-15	440-500-15		440-500-15B	
200 mm / 8"	1	440-511-41	440-501-11	-	440-501-11B	-
200 mm / 8"	2	440-511-42	440-501-12	-	440-501-12B	-
200 mm / 8"	3	440-511-43	440-501-13		440-501-13B	
200 mm / 8"	4	440-511-44	440-501-14		440-501-14B	
200 mm / 8"	5	440-511-45	440-501-15		440-501-15B	
230 mm / 9"	2	440-542-12	440-502-12	-	440-502-12B	-
230 mm / 9"	3	440-542-13	440-502-13		440-502-13B	
230 mm / 9"	4	440-542-14	440-502-14		440-502-14B	
230 mm / 9"	5	440-542-15	440-502-15		440-502-15B	

thin  
foot plate

dünnfuß

poinçonnage  
étroite

punzonar  
estrecha

sottile



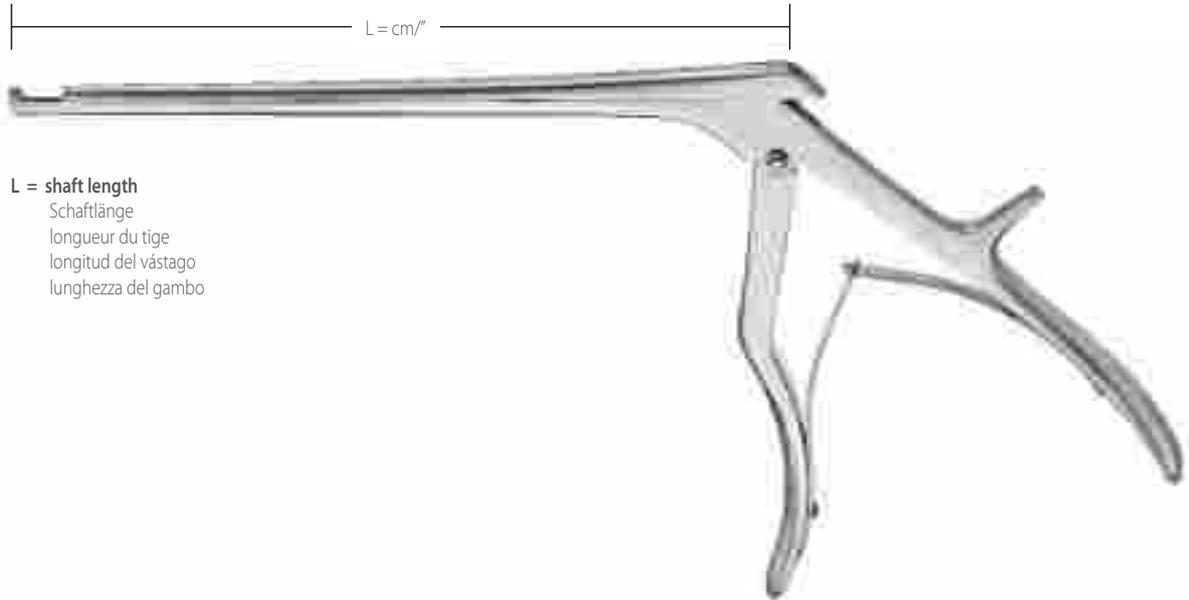
	Jaw Size (mm)	Standard	Dismantable	Ejector	Dismantable (Ceramic)	Ejector	
	180 mm / 7"	1	440-514-01	440-503-01	-	440-503-01B	
	180 mm / 7"	2	440-514-02	440-503-02	-	440-503-02B	
	180 mm / 7"	3	440-514-03	440-503-03		440-503-03B	
	180 mm / 7"	4	440-514-04	440-503-04		440-503-04B	
	180 mm / 7"	5	440-514-05	440-503-05		440-503-05B	
	200 mm / 8"	1	440-514-21	440-503-21		440-503-21B	
	200 mm / 8"	2	440-514-22	440-503-22	-	440-503-22B	-
	200 mm / 8"	3	440-514-23	440-503-23		440-503-23B	
	200 mm / 8"	4	440-514-24	440-503-24		440-503-24B	
	200 mm / 8"	5	440-514-25	440-503-25		440-503-25B	
	200 mm / 8"	6	440-514-26	440-503-26		440-503-26B	
	230 mm / 9"	2	440-543-02	440-504-02	-	440-504-02B	-
	230 mm / 9"	3	440-543-03	440-504-03		440-504-03B	
	230 mm / 9"	4	440-543-04	440-504-04		440-504-04B	
	230 mm / 9"	5	440-543-05	440-504-05		440-504-05B	
	230 mm / 9"	6	440-543-06	440-504-06		440-504-06B	
	180 mm / 7"	1	440-514-11	440-503-11	-	440-503-11B	-
	180 mm / 7"	2	440-514-12	440-503-12	-	440-503-12B	-
	180 mm / 7"	3	440-514-13	440-503-13		440-503-13B	
	180 mm / 7"	4	440-514-14	440-503-14		440-503-14B	
	180 mm / 7"	5	440-514-15	440-503-15		440-503-15B	
thin foot plate	200 mm / 8"	1	440-514-31	440-503-31	-	440-503-31B	-
dünnfuß	200 mm / 8"	2	440-514-32	440-503-32	-	440-503-32B	-
poinçonnage étroite	200 mm / 8"	3	440-514-33	440-503-33		440-503-33B	
punzonar estrecha	200 mm / 8"	4	440-514-34	440-503-34		440-503-34B	
sottile	200 mm / 8"	5	440-514-35	440-503-35		440-503-35B	
	230 mm / 9"	2	440-543-12	440-504-12	-	440-504-12B	-
	230 mm / 9"	3	440-543-13	440-504-13		440-504-13B	
	230 mm / 9"	4	440-543-14	440-504-14		440-504-14B	
	230 mm / 9"	5	440-543-15	440-504-15		440-504-15B	

# 17

## RONGEURS

### Laminectomy Rongeurs

Laminektomiestanzen  
 Pincas emporte-pièce pour laminectomie  
 Pinzas saca-bocadas para laminectomía  
 Pinze taglianti per laminectomia

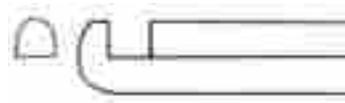


**L = shaft length**  
 Schaftlänge  
 longueur du tige  
 longitud del vástago  
 lunghezza del gambo

**COLCLOUGH**



	3 mm
15 cm/6"	<b>440-520-03</b>
20 cm/8"	<b>440-522-03</b>



	5 mm
15 cm/6"	<b>440-520-05</b>
20 cm/8"	<b>440-522-05</b>



	3 mm
15 cm/6"	<b>440-524-03</b>
20 cm/8"	<b>440-526-03</b>



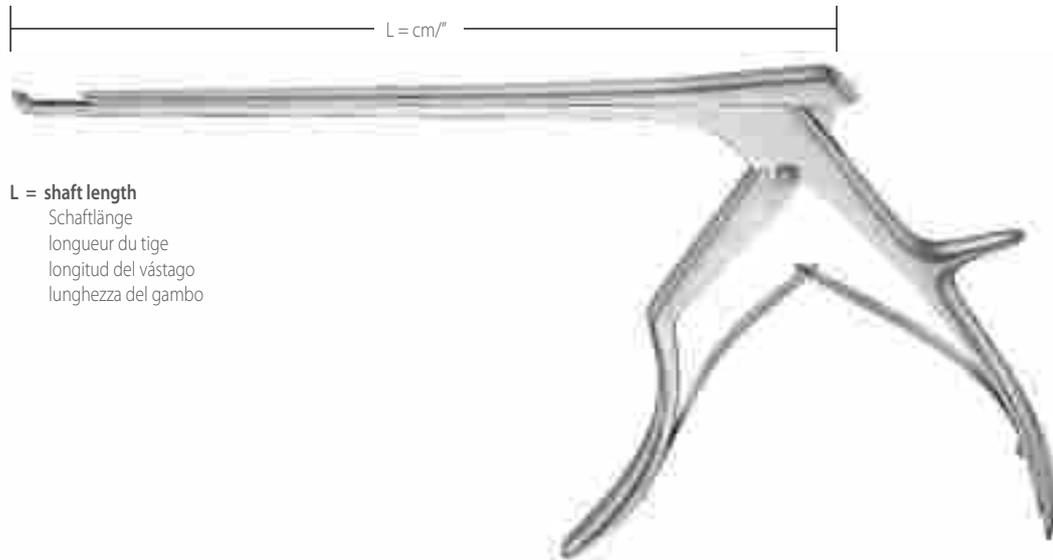
	5 mm
15 cm/6"	<b>440-524-05</b>
20 cm/8"	<b>440-526-05</b>



	3 mm
15 cm/6"	<b>440-527-03</b>
20 cm/8"	<b>440-529-03</b>



	5 mm
15 cm/6"	<b>440-527-05</b>
20 cm/8"	<b>440-529-05</b>



**L = shaft length**  
 Schaftlänge  
 longueur du tige  
 longitud del vástago  
 lunghezza del gambo

**SCHLESINGER**

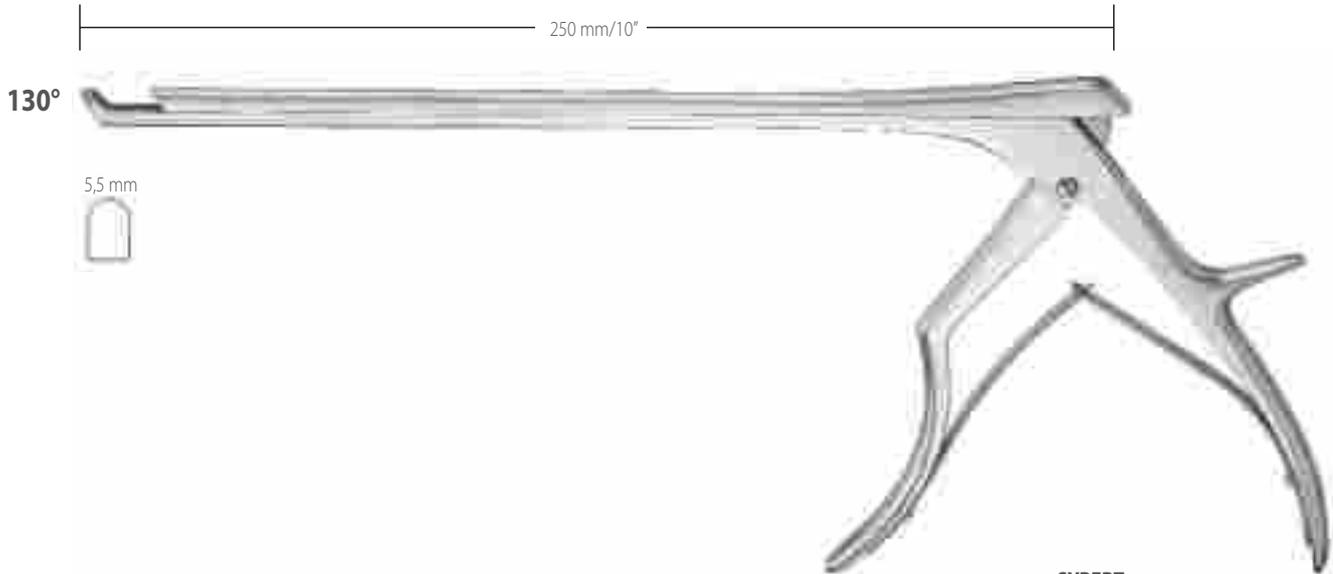


cm/8"	15 cm/6"	20 cm/8"
 3 mm	<b>440-530-03</b>	<b>440-532-03</b>
 5 mm	<b>440-530-05</b>	<b>440-532-05</b>

cm/8"	15 cm/6"	20 cm/8"
 3 mm	<b>440-534-03</b>	<b>440-536-03</b>
 5 mm	<b>440-534-05</b>	<b>440-536-05</b>

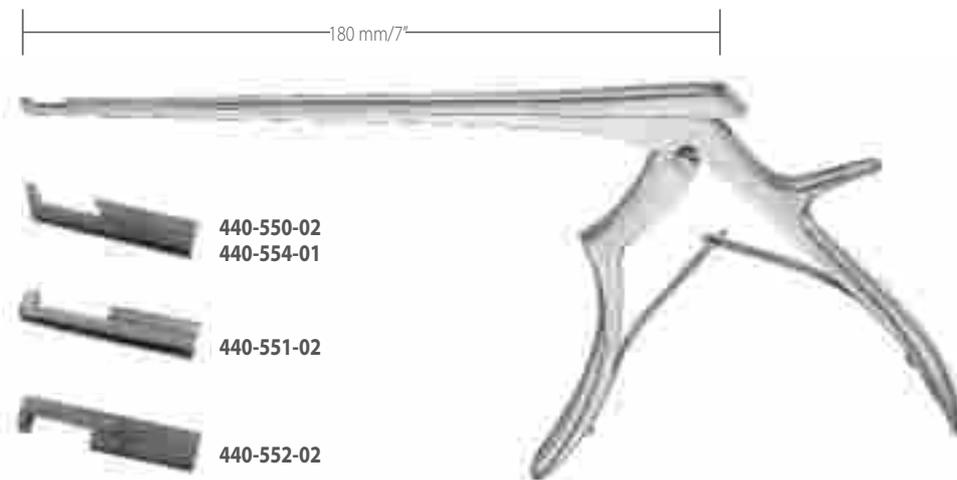


cm/8"	15 cm/6"	20 cm/8"
 3 mm	<b>440-538-03</b>	<b>440-540-03</b>
 5 mm	<b>440-538-05</b>	<b>440-540-05</b>



**SYPERT**

440-546-55



**HARDY**

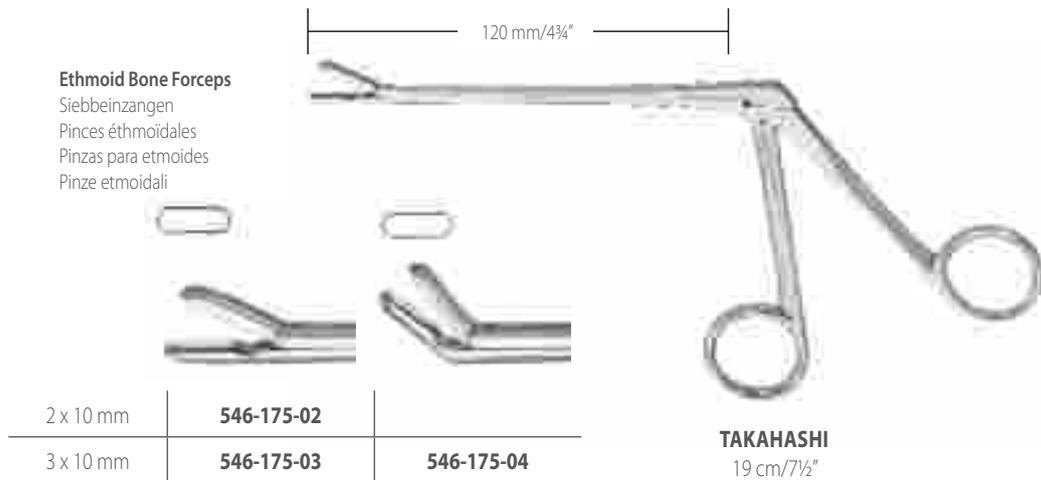
1 mm	40°	440-554-01
2 mm	40°	440-550-02
2 mm	90°	440-551-02
2 mm	90°	440-552-02
2 mm	40°	440-553-02

### Ethmoid Bone Forceps

Siebbeinzangen  
Pincès éthmoïdales  
Pinzas para etmoides  
Pinze etmoidali

#### Ethmoid Bone Forceps

Siebbeinzangen  
Pincès éthmoïdales  
Pinzas para etmoides  
Pinze etmoidali

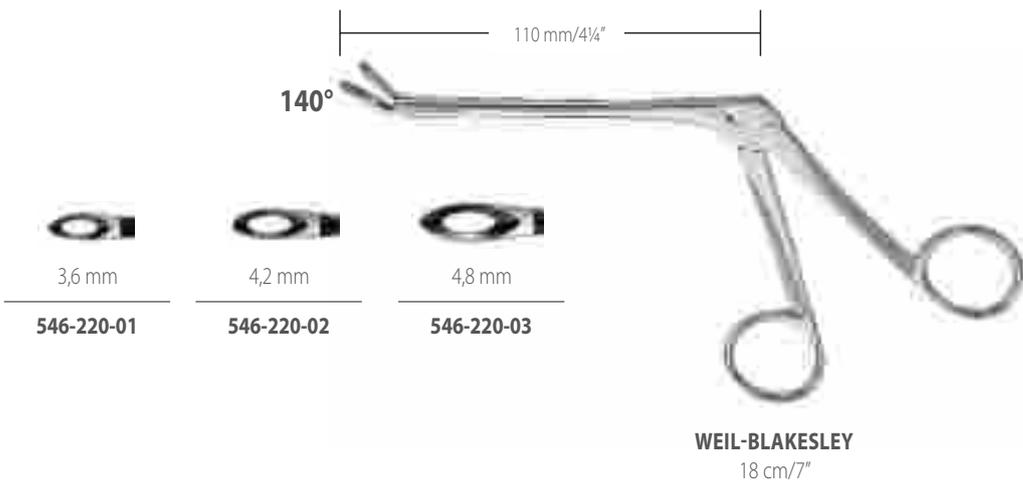


#### straight

gerade  
droite  
recta  
diritta

#### upwards

nach oben  
vers le haut  
hacia arriba  
in alto

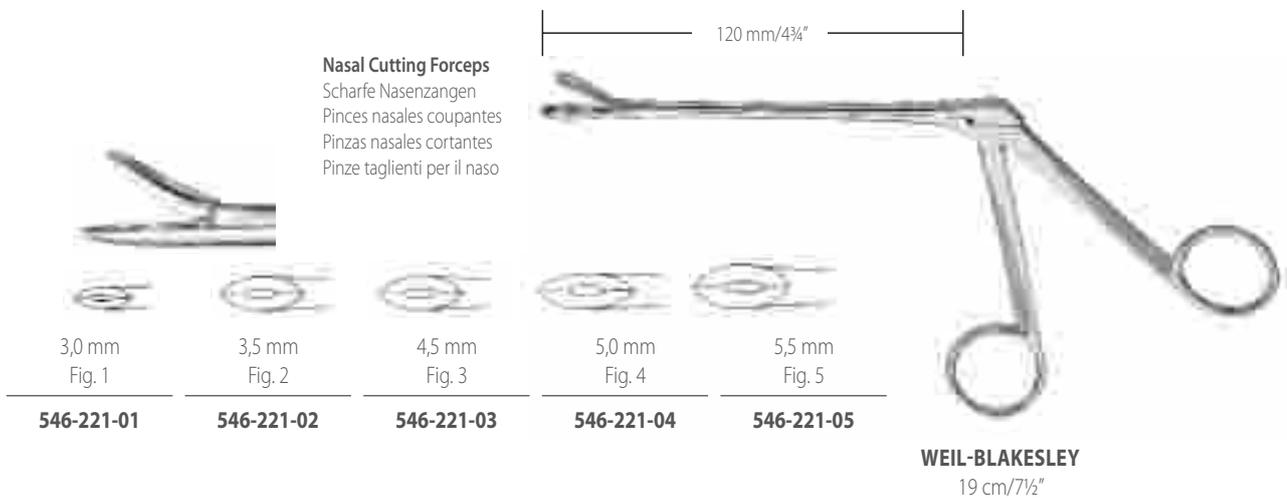


#### WEIL-BLAKESLEY

18 cm / 7"

#### Nasal Cutting Forceps

Scharfe Nasenzangen  
Pincès nasales coupantes  
Pinzas nasales cortantes  
Pinze taglianti per il naso

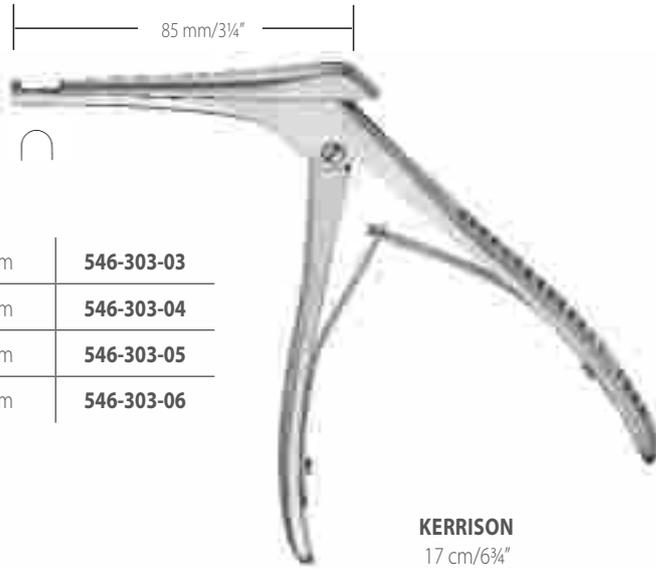


#### WEIL-BLAKESLEY

19 cm / 7 1/2"

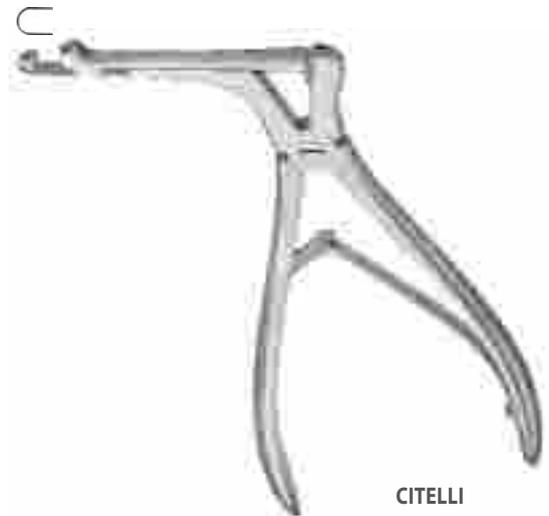
## RONGEURS

**up cutting**  
oben schneidend  
tranchant en haut  
cortante por arriba  
tagliente in alto



3 x 3 mm	<b>546-303-03</b>
4 x 4 mm	<b>546-303-04</b>
5 x 5 mm	<b>546-303-05</b>
6 x 6 mm	<b>546-303-06</b>

**KERRISON**  
17 cm / 6 3/4"



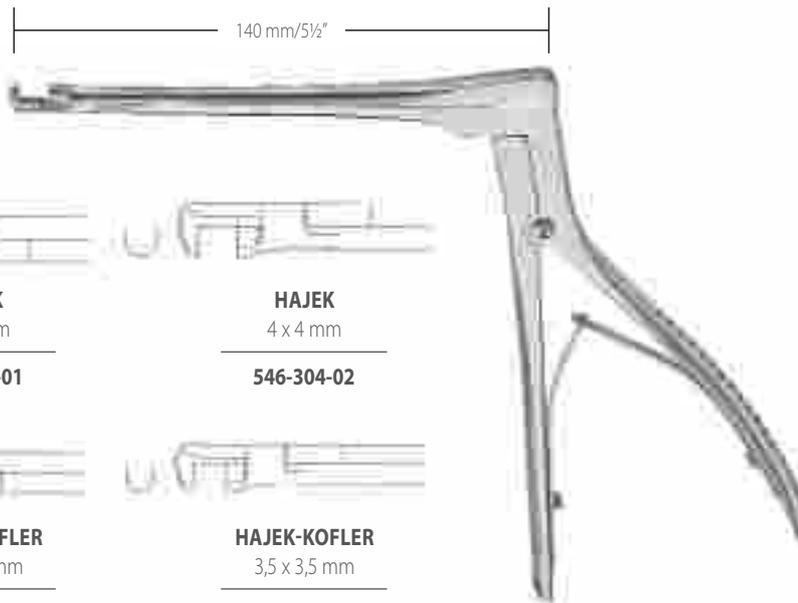
**CITELLI**

1,0 mm	<b>546-311-10</b>
2,5 mm	<b>546-311-25</b>
4,0 mm	<b>546-311-40</b>

**Sphenoid Bone Punches**

Keilbeinstanzen  
Pincas emporte-pièces pour sinus sphénoïdal  
Pinzas sacabocadas para esfenoïdes  
Pinze taglianti per seno sfenoïdale

2,0 mm



**BEYER**

**546-315-20**



**HAJEK**  
4 x 4 mm

**546-304-01**

**HAJEK**  
4 x 4 mm

**546-304-02**



**HAJEK-KOFLER**  
3,5 x 3,5 mm

**546-305-01**

**HAJEK-KOFLER**  
3,5 x 3,5 mm

**546-305-02**

18

## **ANEURYSM - VESSEL CLIPS**

ANEURYSMEN - GEFÄß CLIPS

ANEURYSM - CLIPS VASCULAIRES

ANEURYSM - CLIPS VASCULARES

ANEURYSM - CLIPS VASCOLARI

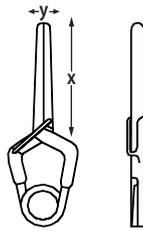
## VESSEL CLIPS

### YASARGIL-STANDARD

**for permanent closure**

für permanenten Verschluss  
für la fermeture permanente  
para el cierre permanente  
per la chiusura permanente

**Titanium**  
Titan  
Titane  
Titanio  
Titanio



x	y	gms
---	---	-----

**jaw length**

Maullänge  
longueur du mors  
longitud de la boca  
lunghezza del morso

**max. jaw opening**

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

**Closing Force**

Schließdruck  
Force de fermeture  
Fuerza de cierre  
Forza di chiusura



x = 7.0 mm

y = 6,2 mm

gms = 150

**440-920-62**

**440-920-63**



x = 9.0 mm

y = 7,0 mm

gms = 180

**440-920-70**

**440-920-71**



x = 11.0 mm

y = 7,8 mm

gms = 180

**440-920-78**

**440-920-79**



x = 15.0 mm

y = 9,2 mm

gms = 200

**440-920-92**

**440-920-93**



x = 17.0 mm

y = 10,6 mm

gms = 200

**440-760-92**

**440-760-93**



x = 20.0 mm

y = 11,4 mm

gms = 200

**440-770-90**

**440-770-91**



x = 25.0 mm

y = 13,3 mm

gms = 200

**440-780-40**

**440-780-41**



x = 7.0 mm

y = 6,0 mm

gms = 150

**440-922-60**

**440-922-61**



x = 9.0 mm

y = 6,8 mm

gms = 180

**440-922-68**

**440-922-69**



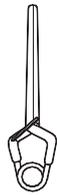
x = 11.0 mm

y = 7,5 mm

gms = 180

**440-742-98**

**440-922-76**



x = 15.0 mm

y = 8,7 mm

gms = 200

**440-920-87**

**440-920-88**



x = 20.0 mm

y = 11,0 mm

gms = 200

**440-920-10**

**440-920-11**



x = 7.0 mm

y = 5,5 mm

gms = 150

**440-924-55**

**440-924-56**



x = 9.0 mm

y = 6,1 mm

gms = 180

**440-924-61**

**440-924-62**



x = 11.0 mm

y = 6,5 mm

gms = 180

**440-924-65**

**440-924-66**



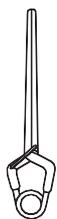
x = 15.0 mm

y = 7,4 mm

gms = 200

**440-920-73**

**440-920-74**



x = 17.0 mm

y = 9,9 mm

gms = 200

**440-920-99**

**440-920-00**



x = 7.0 mm

y = 5,4 mm

gms = 180

**440-924-54**

**440-924-57**



x = 9.0 mm

y = 5,8 mm

gms = 180

**440-924-58**

**440-924-59**



x = 11.0 mm

y = 6,2 mm

gms = 180

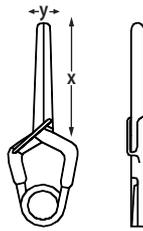
**440-924-63**

**440-924-64**

**YASARGIL-STANDARD**

**for permanent closure**  
 für permanenten Verschluss  
 pour la fermeture permanente  
 para el cierre permanente  
 per la chiusura permanente

Titanium  
 Titan  
 Titane  
 Titanio  
 Titanio



x	y	gms
---	---	-----

**jaw length**  
 Maullänge  
 longueur du mors  
 longitud de la boca  
 lunghezza del morso

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

**Closing Force**  
 Schließdruck  
 Force de fermeture  
 Fuerza de cierre  
 Forza di chiusura

x = 7.0 mm	x = 9.0 mm	x = 12.0 mm	x = 17.0 mm	x = 20.0 mm	x = 5.0 mm	x = 7.0 mm
y = 7,9 mm	y = 8,7 mm	y = 10,2 mm	y = 11,9 mm	y = 13,0 mm	y = 6,2 mm	y = 6,5 mm
gms = 200	gms = 200	gms = 200	gms = 180	gms = 180	gms = 200	gms = 200
<b>440-922-79</b>	<b>440-922-87</b>	<b>440-728-69</b>	<b>440-920-19</b>	<b>440-920-30</b>	<b>440-561-62</b>	<b>440-561-65</b>
<b>440-922-80</b>	<b>440-922-88</b>	<b>440-728-70</b>	<b>440-920-20</b>	<b>440-920-31</b>	<b>440-561-63</b>	<b>440-561-66</b>

x = 9.0 mm	x = 11.0 mm	x = 5.0 mm	x = 7.0 mm	x = 10.0 mm	x = 8.0 mm	x = 10.0 mm
y = 7,8 mm	y = 8,4 mm	y = 5,6 mm	y = 5,6 mm	y = 5,6 mm	y = 5,4 mm	y = 5,6 mm
gms = 200	gms = 200	gms = 200	gms = 200	gms = 200	gms = 200	gms = 200
<b>440-561-78</b>	<b>440-920-84</b>	<b>440-920-55</b>	<b>440-920-57</b>	<b>440-920-51</b>	<b>440-780-54</b>	<b>440-780-56</b>
<b>440-561-79</b>	<b>440-920-85</b>	<b>440-920-56</b>	<b>440-920-58</b>	<b>440-920-52</b>	<b>440-780-55</b>	<b>440-780-57</b>

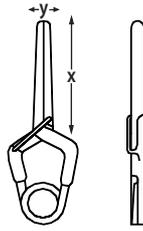
x = 5.0 mm	x = 9.0 mm	x = 11.0 mm	x = 7.0 mm	x = 11.0 mm	x = 9.0 mm
y = 7,2 mm	y = 7,2 mm	y = 8,2 mm	y = 5,7 mm	y = 8,0 mm	y = 6,2 mm
gms = 200	gms = 200	gms = 200	gms = 200	gms = 200	gms = 200
<b>440-924-75</b>	<b>440-924-79</b>	<b>440-924-82</b>	<b>440-726-56</b>	<b>440-920-80</b>	<b>440-727-47</b>
<b>440-924-76</b>	<b>440-924-80</b>	<b>440-924-83</b>	<b>440-726-57</b>	<b>440-920-81</b>	<b>440-727-48</b>

## VESSEL CLIPS

### YASARGIL-STANDARD

**for permanent closure**

für permanenten Verschluss  
 pour la fermeture permanente  
 para el cierre permanente  
 per la chiusura permanente



x	y	gms
---	---	-----

**jaw length**

Maullänge  
 longueur du mors  
 longitud de la boca  
 lunghezza del morso

**max. jaw opening**

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

**Closing Force**

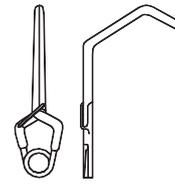
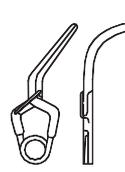
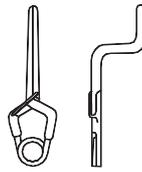
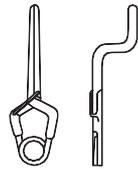
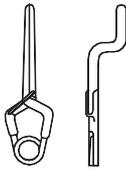
Schließdruck  
 Force de fermeture  
 Fuerza de cierre  
 Forza di chiusura

**Titanium**  
 Titan  
 Titane  
 Titanio  
 Titanio

Height of step 2.5mm  
 Stufenhöhe 2.5mm

Height of step 3.5mm  
 Stufenhöhe 3.5mm

Height of step 4.5mm  
 Stufenhöhe 4.5mm

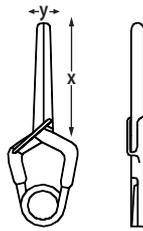


x = 5.0 mm	x = 5.0 mm	x = 5.0 mm	x = 8.0 mm	x = 13.0 mm
y = 8,0 mm	y = 8,0 mm	y = 8,0 mm	y = 6,5 mm	y = 7,5 mm
gms = 200	gms = 200	gms = 200	gms = 180	gms = 200
<b>440-724-25</b>	<b>440-724-35</b>	<b>440-724-45</b>	<b>440-724-55</b>	<b>440-920-75</b>
<b>440-724-26</b>	<b>440-724-36</b>	<b>440-724-46</b>	<b>440-724-56</b>	<b>440-920-76</b>

### YASARGIL-STANDARD

**for temporary closure**  
 für temporären Verschluss  
 pour la fermeture temporaire  
 para el cierre temporal  
 per la chiusura temporaneo

Titanium  
 Titan  
 Titane  
 Titanio  
 Titanio

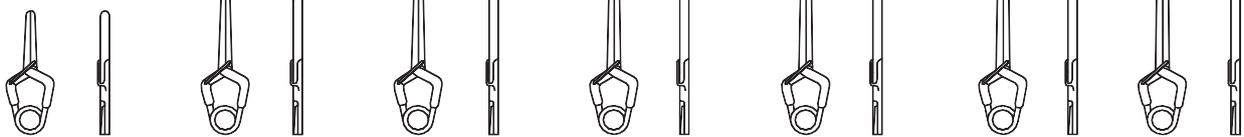


x	y	gms
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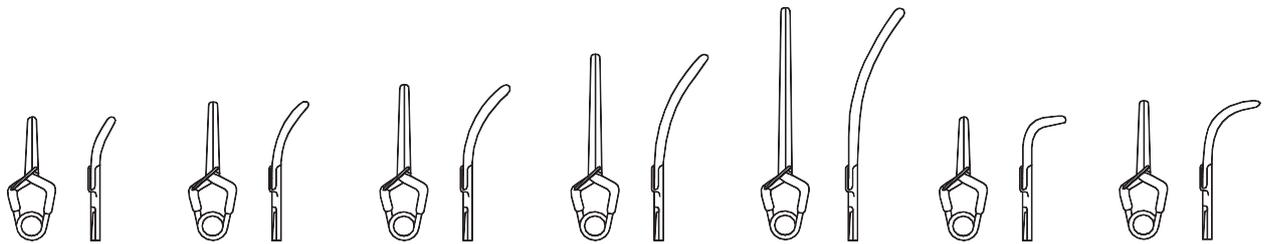
**jaw length**  
 Maullänge  
 longueur du mors  
 longitud de la boca  
 lunghezza del morso

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

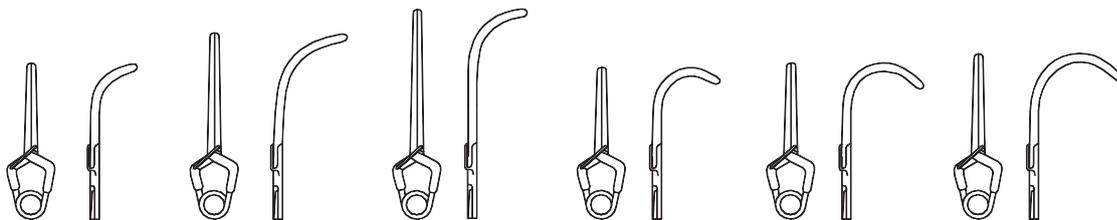
**Closing Force**  
 Schließdruck  
 Force de fermeture  
 Fuerza de cierre  
 Forza di chiusura



x = 7.0 mm	x = 9.0 mm	x = 11.0 mm	x = 15.0 mm	x = 17.0 mm	x = 20.0 mm	x = 25.0 mm
y = 6,2 mm	y = 7,0 mm	y = 7,8 mm	y = 9,2 mm	y = 10,6 mm	y = 11,4 mm	y = 13,3 mm
gms = 110	gms = 90	gms = 90	gms = 90	gms = 90	gms = 110	gms = 110
<b>440-731-62</b>	<b>440-731-70</b>	<b>440-731-78</b>	<b>440-731-92</b>	<b>440-731-06</b>	<b>440-731-14</b>	<b>440-731-33</b>
<b>440-731-63</b>	<b>440-731-71</b>	<b>440-731-79</b>	<b>440-731-93</b>	<b>440-731-07</b>	<b>440-731-15</b>	<b>440-731-34</b>



x = 7.0 mm	x = 9.0 mm	x = 11.0 mm	x = 15.0 mm	x = 20.0 mm	x = 7.0 mm	x = 9.0 mm
y = 6,0 mm	y = 6,8 mm	y = 7,5 mm	y = 8,7 mm	y = 11,0 mm	y = 5,5 mm	y = 6,1 mm
gms = 110	gms = 90	gms = 90	gms = 110	gms = 90	gms = 110	gms = 110
<b>440-731-60</b>	<b>440-731-68</b>	<b>440-753-91</b>	<b>440-731-87</b>	<b>440-763-11</b>	<b>440-731-55</b>	<b>440-733-61</b>
<b>440-731-61</b>	<b>440-731-69</b>	<b>440-753-92</b>	<b>440-731-88</b>	<b>440-763-12</b>	<b>440-731-56</b>	<b>440-733-62</b>



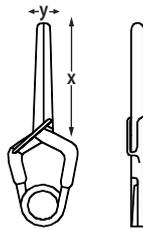
x = 11.0 mm	x = 15.0 mm	x = 17.0 mm	x = 7.0 mm	x = 9.0 mm	x = 11.0 mm
y = 6,5 mm	y = 7,4 mm	y = 9,9 mm	y = 5,4 mm	y = 5,8 mm	y = 6,2 mm
gms = 110	gms = 110	gms = 90	gms = 110	gms = 110	gms = 110
<b>440-731-65</b>	<b>440-731-74</b>	<b>440-731-99</b>	<b>440-732-54</b>	<b>440-732-58</b>	<b>440-732-62</b>
<b>440-731-66</b>	<b>440-731-75</b>	<b>440-731-00</b>	<b>440-732-55</b>	<b>440-732-59</b>	<b>440-732-63</b>

## VESSEL CLIPS

### YASARGIL-STANDARD

#### for temporary closure

für temporären Verschluss  
pour la fermeture temporaire  
para el cierre temporal  
per la chiusura temporaneo



**Titanium**  
Titan  
Titane  
Titanio  
Titanio

x	y	gms
---	---	-----

#### jaw length

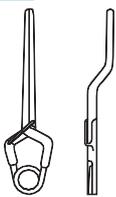
Maullänge  
longueur du mors  
longitud de la boca  
lunghezza del morso

#### max. jaw opening

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

#### Closing Force

Schließdruck  
Force de fermeture  
Fuerza de cierre  
Forza di chiusura



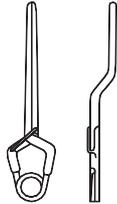
x = 7.0 mm

y = 7,9 mm

gms = 90

**440-732-79**

**440-732-80**



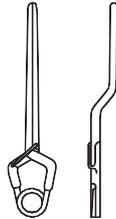
x = 9.0 mm

y = 8,7 mm

gms = 90

**440-732-87**

**440-732-88**



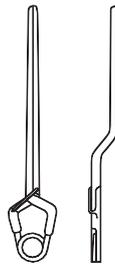
x = 12.0 mm

y = 10,2 mm

gms = 90

**440-731-02**

**440-731-03**



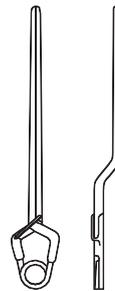
x = 17.0 mm

y = 11,9 mm

gms = 90

**440-731-19**

**440-731-20**



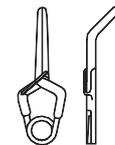
x = 20.0 mm

y = 13,0 mm

gms = 90

**440-731-30**

**440-731-31**



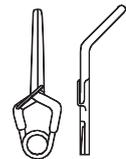
x = 5.0 mm

y = 6,2 mm

gms = 110

**440-734-62**

**440-734-63**



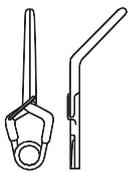
x = 7.0 mm

y = 6,5 mm

gms = 110

**440-577-65**

**440-577-66**



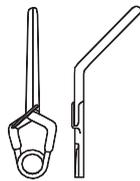
x = 9.0 mm

y = 7,8 mm

gms = 110

**440-573-78**

**440-573-79**



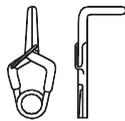
x = 11.0 mm

y = 8,4 mm

gms = 110

**440-731-84**

**440-731-85**



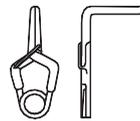
x = 5.0 mm

y = 5,6 mm

gms = 130

**440-731-50**

**440-731-51**



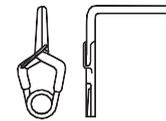
x = 7.0 mm

y = 5,6 mm

gms = 130

**440-732-70**

**440-732-71**



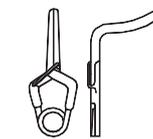
x = 10.0 mm

y = 5,6 mm

gms = 130

**440-731-10**

**440-731-11**



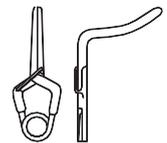
x = 8.0 mm

y = 5,4 mm

gms = 130

**440-733-54**

**440-733-55**



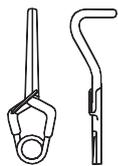
x = 10.0 mm

y = 5,6 mm

gms = 130

**440-733-56**

**440-733-57**



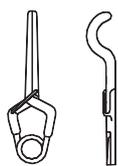
x = 5.0 mm

y = 7,2 mm

gms = 90

**440-732-72**

**440-732-73**



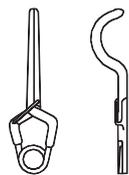
x = 9.0 mm

y = 7,2 mm

gms = 90

**440-734-72**

**440-734-73**



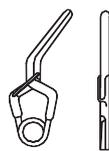
x = 11.0 mm

y = 8,2 mm

gms = 90

**440-731-82**

**440-731-83**



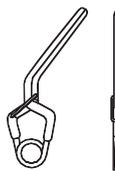
x = 7.0 mm

y = 5,7 mm

gms = 90

**440-731-57**

**440-731-58**



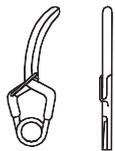
x = 11.0 mm

y = 8,0 mm

gms = 90

**440-731-80**

**440-731-81**



x = 9.0 mm

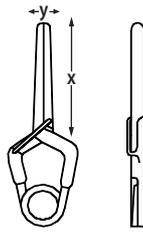
y = 6,2 mm

gms = 90

**440-731-90**

**440-731-91**

**YASARGIL-STANDARD**
**for temporary closure**

 für temporären Verschluss  
 pour la fermeture temporaire  
 para el cierre temporal  
 per la chiusura temporaneo


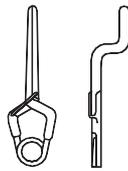
x	y	gms
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**jaw length**  
 Maullänge  
 longueur du mors  
 longitud de la boca  
 lunghezza del morso

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

**Closing Force**  
 Schließdruck  
 Force de fermeture  
 Fuerza de cierre  
 Forza di chiusura

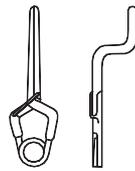
 Titanium  
 Titan  
 Titane  
 Titanio  
 Titanio

**Height of step 2.5mm**  
 Stufenhöhe 2.5mm


x = 50 mm

y = 8,0 mm

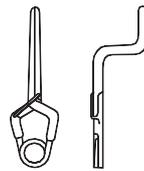
gms = 90

**440-735-25**
**440-735-26**
**Height of step 3.5mm**  
 Stufenhöhe 3.5mm


x = 5.0 mm

y = 8,0 mm

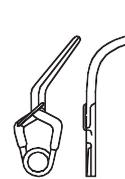
gms = 90

**440-735-35**
**440-735-36**
**Height of step 4.5mm**  
 Stufenhöhe 4.5mm


x = 5.0 mm

y = 8,0 mm

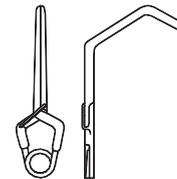
gms = 90

**440-735-45**
**440-735-46**


x = 8.0 mm

y = 6,5 mm

gms = 90

**440-735-55**
**440-735-51**


x = 13.0 mm

y = 7,5 mm

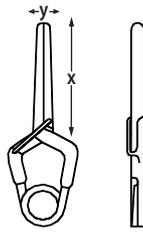
gms = 90

**440-732-75**
**440-732-76**

## VESSEL CLIPS

### YASARGIL-STANDARD

for permanent closure, fenestrated 3.5 mm  
für permanenten Verschluss, gefenestert 3,5 mm  
pour la fermeture permanente, fenêtrée 3,5 mm  
para el cierre permanente, fenestrated 3,5 mm  
per la chiusura permanente, fenestrated 3,5 mm



x	y	gms
---	---	-----

**jaw length**

Maullänge  
longueur du mors  
longitud de la boca  
lunghezza del morso

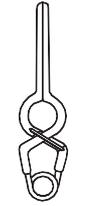
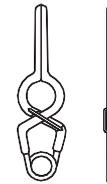
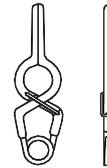
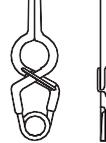
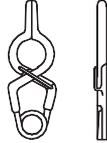
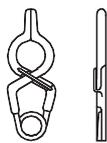
**max. jaw opening**

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

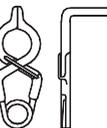
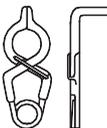
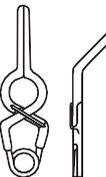
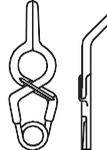
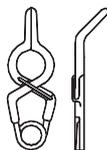
**Closing Force**

Schließdruck  
Force de fermeture  
Fuerza de cierre  
Forza di chiusura

**Titanium**  
Titan  
Titane  
Titanio  
Titanio



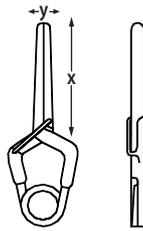
x = 3.0 mm	x = 4.0 mm	x = 5.0 mm	x = 7.0 mm	x = 9.0 mm	x = 12.0 mm
y = 7,4 mm	y = 7,4 mm	y = 7,4 mm	y = 7,4 mm	y = 8,4 mm	y = 9,6 mm
gms = 150	gms = 150	gms = 150	gms = 150	gms = 150	gms = 200
<b>440-563-74</b>	<b>440-564-74</b>	<b>440-565-74</b>	<b>440-560-11</b>	<b>440-560-14</b>	<b>440-560-17</b>
<b>440-563-75</b>	<b>440-564-75</b>	<b>440-565-75</b>	<b>440-560-12</b>	<b>440-560-15</b>	<b>440-560-18</b>



x = 5.0 mm	x = 7.0 mm	x = 11.0 mm	x = 5.0 mm	x = 7.0 mm	x = 11.0 mm
y = 5,8 mm	y = 6,5 mm	y = 7,2 mm	y = 4,9 mm	y = 4,9 mm	y = 4,9 mm
gms = 150	gms = 150	gms = 180	gms = 150	gms = 150	gms = 180
<b>440-561-09</b>	<b>440-561-11</b>	<b>440-561-14</b>	<b>440-562-09</b>	<b>440-562-12</b>	<b>440-562-14</b>
<b>440-561-10</b>	<b>440-561-12</b>	<b>440-561-15</b>	<b>440-562-10</b>	<b>440-562-13</b>	<b>440-562-15</b>

**YASARGIL-STANDARD**

for temporary closure, fenestrated 3.5 mm  
 für temporären Verschluss, gefenstert 3,5 mm  
 pour la fermeture temporaire, fenêtrée 3,5 mm  
 para el cierre temporal, fenestrated 3,5 mm  
 per la chiusura temporaneo, fenestrated 3,5 mm



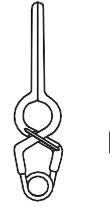
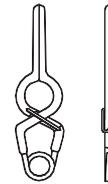
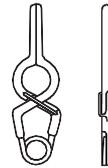
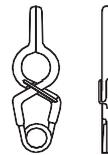
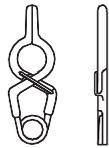
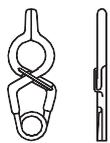
x	y	gms
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**jaw length**  
 Maullänge  
 longueur du mors  
 longitud de la boca  
 lunghezza del morso

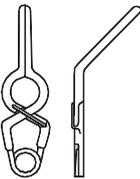
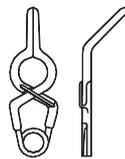
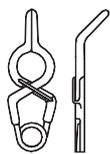
**max. jaw opening**  
 max. Maulöffnung  
 ouverture max. du mors  
 apertura máx. de la boca  
 apertura mass.

**Closing Force**  
 Schließdruck  
 Force de fermeture  
 Fuerza de cierre  
 Forza di chiusura

**Titanium**  
 Titan  
 Titane  
 Titanio  
 Titanio



x = 3.0 mm	x = 4.0 mm	x = 5.0 mm	x = 7.0 mm	x = 9.0 mm	x = 12.0 mm
y = 7,4 mm	y = 7,4 mm	y = 7,4 mm	y = 7,4 mm	y = 8,4 mm	y = 9,6 mm
gms = 110	gms = 110	gms = 110	gms = 110	gms = 110	gms = 90
<b>440-731-37</b>	<b>440-731-47</b>	<b>440-734-57</b>	<b>440-732-77</b>	<b>440-573-84</b>	<b>440-573-96</b>
<b>440-731-38</b>	<b>440-731-48</b>	<b>440-734-58</b>	<b>440-732-78</b>	<b>440-573-85</b>	<b>440-573-97</b>

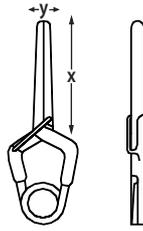


x = 5.0 mm	x = 7.0 mm	x = 11.0 mm	x = 5.0 mm	x = 7.0 mm	x = 11.0 mm
y = 5,8 mm	y = 6,5 mm	y = 7,2 mm	y = 4,9 mm	y = 4,9 mm	y = 4,9 mm
gms = 110	gms = 110	gms = 110	gms = 110	gms = 110	gms = 110
<b>440-734-65</b>	<b>440-573-65</b>	<b>440-573-72</b>	<b>440-735-49</b>	<b>440-577-49</b>	<b>440-574-49</b>
<b>440-734-66</b>	<b>440-573-66</b>	<b>440-573-73</b>	<b>440-735-50</b>	<b>440-577-50</b>	<b>440-574-50</b>

## VESSEL CLIPS

### YASARGIL-STANDARD

for permanent closure, fenestrated 5.0 mm  
 für permanenten Verschluss, gefenstert 5,0 mm  
 pour la fermeture permanente, fenêtrée 5,0 mm  
 para el cierre permanente, fenestrated 5,0 mm  
 per la chiusura permanente, fenestrated 5,0 mm



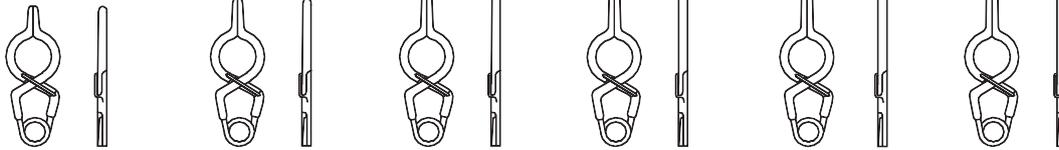
x	y	gms
---	---	-----

**jaw length**  
 Maullänge  
 longueur du mors  
 longitud de la boca  
 lunghezza del morso

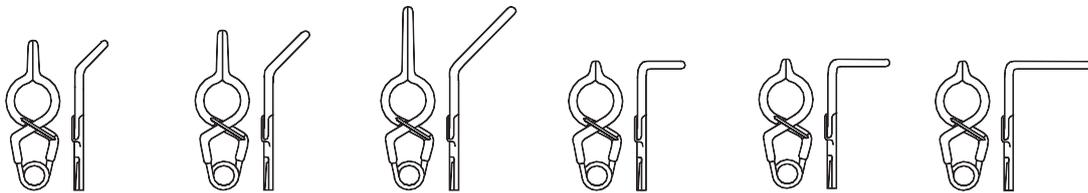
**max. jaw opening**  
 max. Maulöffnung  
 ouverture max. du mors  
 apertura máx. de la boca  
 apertura mass.

**Closing Force**  
 Schließdruck  
 Force de fermeture  
 Fuerza de cierre  
 Forza di chiusura

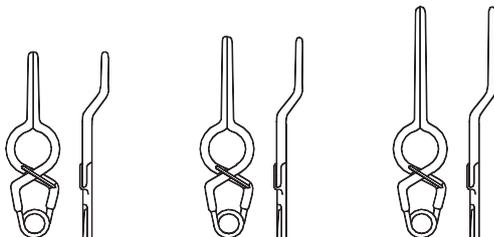
**Titanium**  
 Titan  
 Titane  
 Titanio  
 Titanio



x = 3.0 mm	x = 4.0 mm	x = 5.0 mm	x = 7.0 mm	x = 9.0 mm	x = 12.0 mm
y = 7,4 mm	y = 7,4 mm	y = 7,4 mm	y = 7,9 mm	y = 9,1 mm	y = 10,3 mm
gms = 150	gms = 150	gms = 150	gms = 150	gms = 150	gms = 180
<b>440-564-30</b>	<b>440-564-40</b>	<b>440-564-50</b>	<b>440-564-12</b>	<b>440-564-15</b>	<b>440-564-18</b>
<b>440-564-31</b>	<b>440-564-41</b>	<b>440-564-51</b>	<b>440-564-13</b>	<b>440-564-16</b>	<b>440-564-19</b>



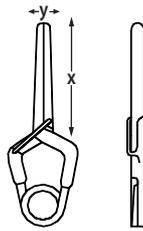
x = 5.0 mm	x = 7.0 mm	x = 11.0 mm	x = 5.0 mm	x = 7.0 mm	x = 11.0 mm
y = 6,5 mm	y = 7,2 mm	y = 7,8 mm	y = 5,5 mm	y = 5,5 mm	y = 5,5 mm
gms = 150	gms = 150	gms = 180	gms = 150	gms = 150	gms = 180
<b>440-565-10</b>	<b>440-565-13</b>	<b>440-565-15</b>	<b>440-566-11</b>	<b>440-566-13</b>	<b>440-566-16</b>
<b>440-565-11</b>	<b>440-565-14</b>	<b>440-565-16</b>	<b>440-566-12</b>	<b>440-566-14</b>	<b>440-566-17</b>



x = 5.0 mm	x = 7.0 mm	x = 11.0 mm
y = 7,9 mm	y = 8,8 mm	y = 10,0 mm
gms = 150	gms = 150	gms = 180
<b>440-568-14</b>	<b>440-568-17</b>	<b>440-568-19</b>
<b>440-568-15</b>	<b>440-568-18</b>	<b>440-568-20</b>

**YASARGIL-STANDARD**

for temporary closure, fenestrated 5.0 mm  
 für temporären Verschluss, gefenestert 5,0 mm  
 pour la fermeture temporaire, fenêtrée 5,0 mm  
 para el cierre temporal, fenestrated 5,0 mm  
 per la chiusura temporaneo, fenestrated 5,0 mm



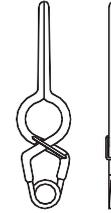
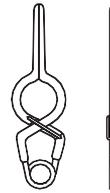
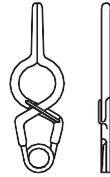
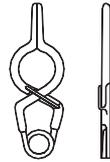
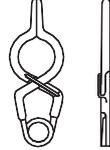
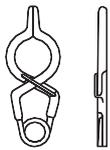
x	y	gms
---	---	-----

**jaw length**  
 Maullänge  
 longueur du mors  
 longitud de la boca  
 lunghezza del morso

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

**Closing Force**  
 Schließdruck  
 Force de fermeture  
 Fuerza de cierre  
 Forza di chiusura

Titanium  
 Titan  
 Titane  
 Titanio  
 Titanio



x = 3.0 mm

x = 4.0 mm

x = 5.0 mm

x = 7.0 mm

x = 9.0 mm

x = 12.0 mm

y = 7,4 mm

y = 7,4 mm

y = 7,4 mm

y = 7,9 mm

y = 9,1 mm

y = 10,3 mm

gms = 110

gms = 90

440-573-74

440-574-74

440-575-74

440-577-74

440-579-91

440-572-03

440-573-75

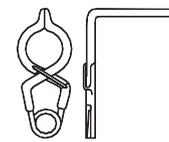
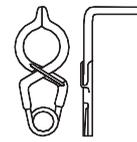
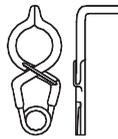
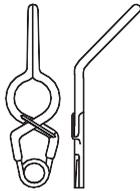
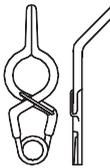
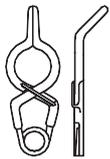
440-574-75

440-575-75

440-577-75

440-579-92

440-572-04



x = 5.0 mm

x = 7.0 mm

x = 11.0 mm

x = 5.0 mm

x = 7.0 mm

x = 11.0 mm

y = 6,5 mm

y = 7,2 mm

y = 7,8 mm

y = 5,5 mm

y = 5,5 mm

y = 5,5 mm

gms = 110

gms = 90

440-575-65

440-577-72

440-571-78

440-575-55

440-577-55

440-571-55

440-575-66

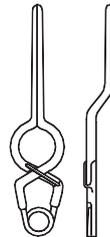
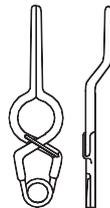
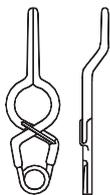
440-577-73

440-571-79

440-575-56

440-577-56

440-571-56



x = 5.0 mm

x = 7.0 mm

x = 11.0 mm

y = 7,9 mm

y = 8,8 mm

y = 10,0 mm

gms = 90

gms = 90

gms = 90

440-575-79

440-577-88

440-571-00

440-575-80

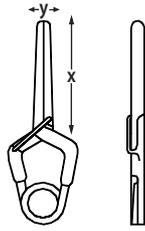
440-577-89

440-571-01

## VESSEL CLIPS

### YASARGIL-STANDARD

for permanent closure, fenestrated 5.0 mm  
für permanenten Verschluss, gefenestert 5,0 mm  
pour la fermeture permanente, fenêtrée 5,0 mm  
para el cierre permanente, fenestrated 5,0 mm  
per la chiusura permanente, fenestrated 5,0 mm

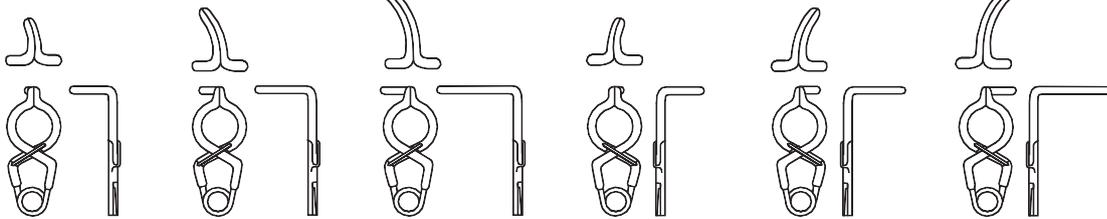


x	y	gms
---	---	-----

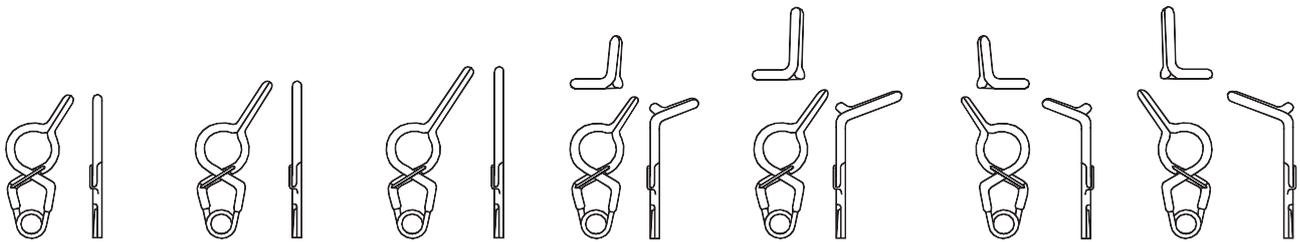
**jaw length**  
Maullänge  
longueur du mors  
longitud de la boca  
lunghezza del morso

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

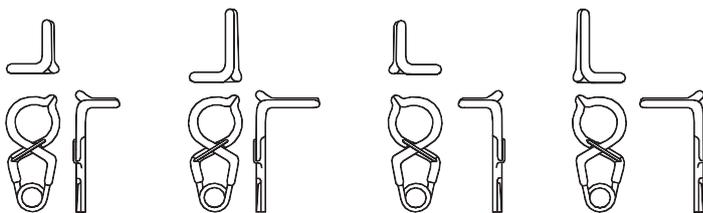
**Closing Force**  
Schließdruck  
Force de fermeture  
Fuerza de cierre  
Forza di chiusura



x = 5.0 mm	x = 7.0 mm	x = 10.0 mm	x = 5.0 mm	x = 7.0 mm	x = 10.0 mm
y = 5,8 mm	y = 5,8 mm	y = 5,8 mm	y = 5,8 mm	y = 5,8 mm	y = 5,8 mm
gms = 150	gms = 150	gms = 150	gms = 150	gms = 150	gms = 150
<b>440-724-58</b>	<b>440-727-58</b>	<b>440-721-58</b>	<b>440-755-58</b>	<b>440-757-58</b>	<b>440-751-58</b>
<b>440-724-59</b>	<b>440-727-59</b>	<b>440-721-59</b>	<b>440-755-59</b>	<b>440-757-59</b>	<b>440-751-59</b>



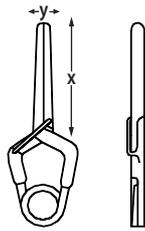
x = 5.0 mm	x = 7.0 mm	x = 10.0 mm	x = 5.0 mm	x = 7.0 mm	x = 5.0 mm	x = 7.0 mm
y = 7,0 mm	y = 7,8 mm	y = 8,8 mm	y = 5,8 mm	y = 6,2 mm	y = 5,8 mm	y = 6,2 mm
gms = 150	gms = 150	gms = 150	gms = 150	gms = 150	gms = 150	gms = 150
<b>440-785-70</b>	<b>440-787-78</b>	<b>440-781-88</b>	<b>440-785-58</b>	<b>440-787-62</b>	<b>440-786-58</b>	<b>440-788-62</b>
<b>440-785-71</b>	<b>440-787-79</b>	<b>440-781-89</b>	<b>440-785-59</b>	<b>440-787-63</b>	<b>440-786-59</b>	<b>440-788-63</b>



x = 5.0 mm	x = 7.0 mm	x = 5.0 mm	x = 7.0 mm
y = 5,6 mm	y = 5,6 mm	y = 5,6 mm	y = 5,6 mm
gms = 150	gms = 150	gms = 150	gms = 150
<b>440-785-56</b>	<b>440-787-56</b>	<b>440-786-56</b>	<b>440-789-56</b>
<b>440-785-57</b>	<b>440-787-57</b>	<b>440-786-57</b>	<b>440-789-57</b>

**YASARGIL-STANDARD**

for temporary closure, fenestrated 5.0 mm  
 für temporären Verschluss, gefenestert 5,0 mm  
 pour la fermeture temporaire, fenêtrée 5,0 mm  
 para el cierre temporal, fenestrated 5,0 mm  
 per la chiusura temporaneo, fenestrated 5,0 mm



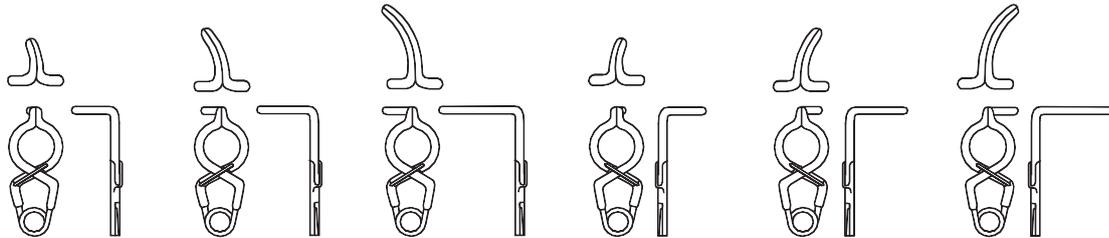
x	y	gms
---	---	-----

**jaw length**  
 Maullänge  
 longueur du mors  
 longitud de la boca  
 lunghezza del morso

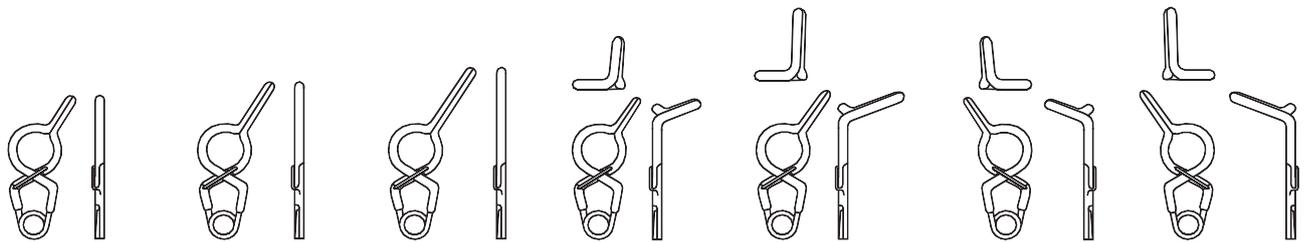
**max. jaw opening**  
 max. Maulöffnung  
 ouverture max. du mors  
 apertura máx. de la boca  
 apertura mass.

**Closing Force**  
 Schließdruck  
 Force de fermeture  
 Fuerza de cierre  
 Forza di chiusura

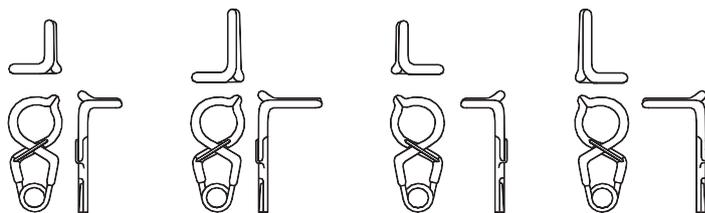
Titanium  
 Titan  
 Titane  
 Titanio  
 Titanio



x = 5.0 mm	x = 7.0 mm	x = 10.0 mm	x = 5.0 mm	x = 7.0 mm	x = 10.0 mm
y = 5,8 mm	y = 5,8 mm	y = 5,8 mm	y = 5,8 mm	y = 5,8 mm	y = 5,8 mm
gms = 110	gms = 110	gms = 110	gms = 110	gms = 110	gms = 110
<b>440-735-52</b>	<b>440-737-58</b>	<b>440-730-58</b>	<b>440-745-58</b>	<b>440-747-58</b>	<b>440-740-58</b>
<b>440-735-59</b>	<b>440-737-59</b>	<b>440-730-59</b>	<b>440-745-59</b>	<b>440-747-59</b>	<b>440-740-59</b>



x = 5.0 mm	x = 7.0 mm	x = 10.0 mm	x = 5.0 mm	x = 7.0 mm	x = 5.0 mm	x = 7.0 mm
y = 7,0 mm	y = 7,8 mm	y = 8,8 mm	y = 5,8 mm	y = 6,2 mm	y = 5,8 mm	y = 6,2 mm
gms = 110	gms = 110	gms = 110	gms = 110	gms = 110	gms = 110	gms = 110
<b>440-735-70</b>	<b>440-737-78</b>	<b>440-730-88</b>	<b>440-736-58</b>	<b>440-737-62</b>	<b>440-735-41</b>	<b>440-739-62</b>
<b>440-735-71</b>	<b>440-737-79</b>	<b>440-730-89</b>	<b>440-736-59</b>	<b>440-737-63</b>	<b>440-735-42</b>	<b>440-739-63</b>

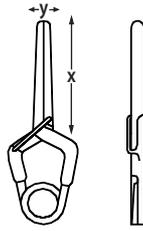


x = 5.0 mm	x = 7.0 mm	x = 5.0 mm	x = 7.0 mm
y = 5,6 mm	y = 5,6 mm	y = 5,6 mm	y = 5,6 mm
gms = 110	gms = 110	gms = 110	gms = 110
<b>440-735-56</b>	<b>440-737-56</b>	<b>440-736-56</b>	<b>440-739-56</b>
<b>440-735-57</b>	<b>440-737-57</b>	<b>440-736-57</b>	<b>440-739-57</b>

## VESSEL CLIPS

### YASARGIL -MINI

for permanent closure  
für permanenten Verschluss  
pour la fermeture permanente  
para el cierre permanente  
per la chiusura permanente



x	y	gms
---	---	-----

**jaw length**

Maullänge  
longueur du mors  
longitud de la boca  
lunghezza del morso

**max. jaw opening**

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

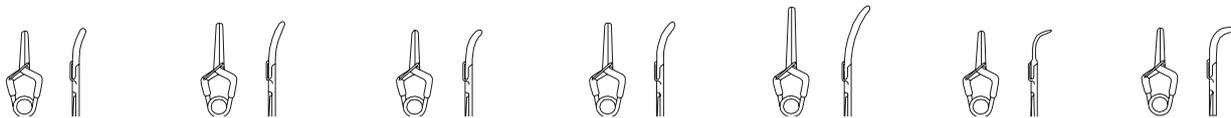
**Closing Force**

Schließdruck  
Force de fermeture  
Fuerza de cierre  
Forza di chiusura

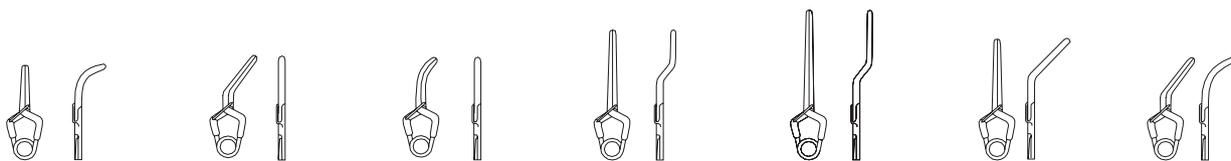
**Titanium**  
Titan  
Titane  
Titanio  
Titanio



x = 3.0 mm	x = 5.0 mm	x = 3.0 mm	x = 5.0 mm	x = 7.0 mm	x = 3.0 mm	x = 4.0 mm
y = 3,3 mm	y = 4,0 mm	y = 3,3 mm	y = 4,0 mm	y = 4,6 mm	y = 3,2 mm	y = 3,8 mm
gms = 110	gms = 110	gms = 110	gms = 110	gms = 110	gms = 110	gms = 110
<b>440-570-30</b>	<b>440-580-35</b>	<b>440-690-30</b>	<b>440-692-35</b>	<b>440-710-40</b>	<b>440-572-30</b>	<b>440-584-38</b>
<b>440-570-31</b>	<b>440-580-36</b>	<b>440-690-31</b>	<b>440-692-36</b>	<b>440-710-41</b>	<b>440-572-31</b>	<b>440-584-39</b>



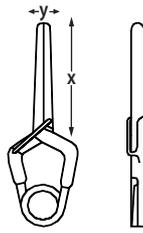
x = 4.0 mm	x = 5.0 mm	x = 4.0 mm	x = 5.0 mm	x = 7.0 mm	x = 4.0 mm	x = 4.0 mm
y = 3,6 mm	y = 3,8 mm	y = 3,6 mm	y = 4,0 mm	y = 4,4 mm	y = 3,6 mm	y = 3,5 mm
gms = 110	gms = 110	gms = 110	gms = 110	gms = 110	gms = 110	gms = 110
<b>440-582-31</b>	<b>440-694-35</b>	<b>440-694-36</b>	<b>440-694-40</b>	<b>440-712-38</b>	<b>440-584-36</b>	<b>440-694-31</b>
<b>440-582-32</b>	<b>440-694-38</b>	<b>440-694-37</b>	<b>440-694-41</b>	<b>440-712-39</b>	<b>440-584-37</b>	<b>440-694-32</b>



x = 5.0 mm	x = 5.0 mm	x = 5.0 mm	x = 4.0 mm	x = 7.0 mm	x = 7.0 mm	x = 5.0 mm
y = 4,0 mm	y = 3,5 mm	y = 6,0 mm	y = 7,0 mm	y = 5,7 mm	y = 4,5 mm	y = 4,0 mm
gms = 110	gms = 130					
<b>440-715-40</b>	<b>440-698-30</b>	<b>440-698-60</b>	<b>440-698-70</b>	<b>440-697-13</b>	<b>440-766-40</b>	<b>440-698-65</b>
<b>440-715-41</b>	<b>440-698-31</b>	<b>440-698-61</b>	<b>440-698-71</b>	<b>440-697-14</b>	<b>440-766-41</b>	<b>440-698-66</b>

**YASARGIL -MINI**

for temporary closure  
 für temporären Verschluss  
 pour la fermeture temporaire  
 para el cierre temporal  
 per la chiusura temporaneo



x	y	gms
---	---	-----

**jaw length**  
 Maullänge  
 longueur du mors  
 longitud de la boca  
 lunghezza del morso

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

**Closing Force**  
 Schließdruck  
 Force de fermeture  
 Fuerza de cierre  
 Forza di chiusura

Titanium  
 Titan  
 Titane  
 Titanio  
 Titanio

x = 3.0 mm	x = 5.0 mm	x = 3.0 mm	x = 5.0 mm	x = 7.0 mm	x = 3.0 mm	x = 4.0 mm
y = 3,3 mm	y = 4,0 mm	y = 3,3 mm	y = 4,0 mm	y = 4,6 mm	y = 3,2 mm	y = 3,8 mm
gms = 90	gms = 70	gms = 90	gms = 70	gms = 70	gms = 90	gms = 70
<b>440-573-33</b>	<b>440-575-40</b>	<b>440-571-33</b>	<b>440-693-35</b>	<b>440-697-46</b>	<b>440-573-30</b>	<b>440-574-38</b>
<b>440-573-34</b>	<b>440-575-41</b>	<b>440-571-34</b>	<b>440-693-36</b>	<b>440-697-47</b>	<b>440-573-31</b>	<b>440-574-39</b>

x = 4.0 mm	x = 5.0 mm	x = 4.0 mm	x = 5.0 mm	x = 7.0 mm	x = 4.0 mm	x = 4.0 mm
y = 3,6 mm	y = 3,8 mm	y = 3,6 mm	y = 4,0 mm	y = 4,4 mm	y = 3,6 mm	y = 3,5 mm
gms = 80	gms = 70	gms = 80	gms = 70	gms = 70	gms = 80	gms = 80
<b>440-693-43</b>	<b>440-695-35</b>	<b>440-695-43</b>	<b>440-695-74</b>	<b>440-697-44</b>	<b>440-574-36</b>	<b>440-697-33</b>
<b>440-693-44</b>	<b>440-695-36</b>	<b>440-695-44</b>	<b>440-695-75</b>	<b>440-697-45</b>	<b>440-574-37</b>	<b>440-697-34</b>

x = 5.0 mm	x = 5.0 mm	x = 6.0 mm	x = 4.0 mm	x = 7.0 mm	x = 7.0 mm	x = 5.0 mm
y = 4,0 mm	y = 3,5 mm	y = 6,0 mm	y = 7,0 mm	y = 5,7 mm	y = 4,5 mm	y = 4,0 mm
gms = 70	gms = 70	gms = 70	gms = 70	gms = 70	gms = 70	gms = 70
<b>440-695-40</b>	<b>440-695-70</b>	<b>440-696-70</b>	<b>440-694-70</b>	<b>440-697-57</b>	<b>440-731-45</b>	<b>440-731-40</b>
<b>440-695-41</b>	<b>440-695-71</b>	<b>440-696-71</b>	<b>440-694-71</b>	<b>440-697-58</b>	<b>440-731-46</b>	<b>440-731-41</b>

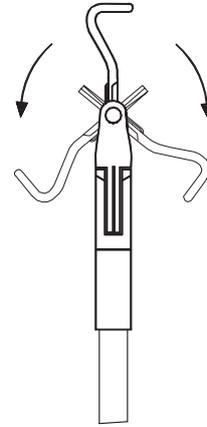
### YASARGIL Clip Applying Forceps

Anlegezangen für YASARGIL Aneurysmen Clips  
 Pincés à appliquer les clips anévrismaux YASARGIL  
 Pinza aplicadora para YASARGIL clips de aneurisma  
 Pinza per applicare i YASARGIL clips per aneurisma



MEMORY

**Titanium**  
 Titan  
 Titane  
 Titanio  
 Titanio



**Rotating**  
 Drehbar  
 Orientable  
 Giratoria  
 Rotante



**Non rotating**  
 Nicht drehbar  
 Non orientable  
 No giratoria  
 Non rotante

	MINI	STANDARD
70 mm 2¾"	440-795-07	440-791-07
70 mm 2¾"	440-795-17	440-791-17
90 mm 3½"	440-795-09	440-791-09
90 mm 3½"	440-795-19	440-791-19
110 mm 41/3"	440-795-11	440-791-11
110 mm 41/3"	440-795-21	440-791-21



**Rotating**  
 Drehbar  
 Orientable  
 Giratoria  
 Rotante

	MINI	STANDARD
70 mm 2¾"	440-794-07	440-790-07
70 mm 2¾"	440-794-17	440-790-17
90 mm 3½"	440-794-09	440-790-09
90 mm 3½"	440-794-19	440-790-19
110 mm 41/3"	440-794-11	440-790-11
110 mm 41/3"	440-794-21	440-790-21

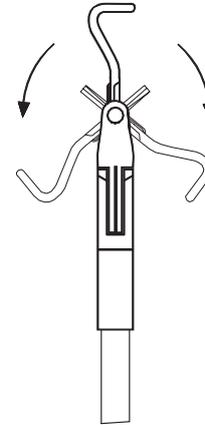
### YASARGIL Clip Applying Forceps

Anlegezangen für YASARGIL Aneurysmen Clips  
 Pincès à appliquer les clips anévrismaux YASARGIL  
 Pinza aplicadora para YASARGIL clips de aneurisma  
 Pinza per applicare i YASARGIL clips per aneurisma



MEMORY

**Titanium**  
 Titan  
 Titane  
 Titanio  
 Titanio



**Rotating**  
 Drehbar  
 Orientable  
 Giratoria  
 Rotante



**Non rotating**  
 Nicht drehbar  
 Non orientable  
 No giratoria  
 Non rotante

	MINI	STANDARD
70 mm 2¾"	<b>440-797-07</b>	<b>440-793-07</b>
70 mm 2¾"	<b>440-797-17</b>	<b>440-793-17</b>
90 mm 3½"	<b>440-797-09</b>	<b>440-793-09</b>
90 mm 3½"	<b>440-797-19</b>	<b>440-793-19</b>
110 mm 41/3"	<b>440-797-11</b>	<b>440-793-11</b>
110 mm 41/3"	<b>440-797-21</b>	<b>440-793-21</b>

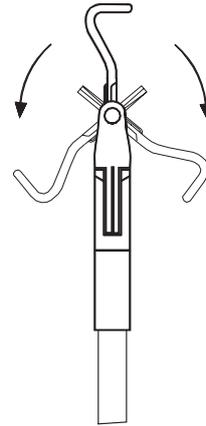


**Rotating**  
 Drehbar  
 Orientable  
 Giratoria  
 Rotante

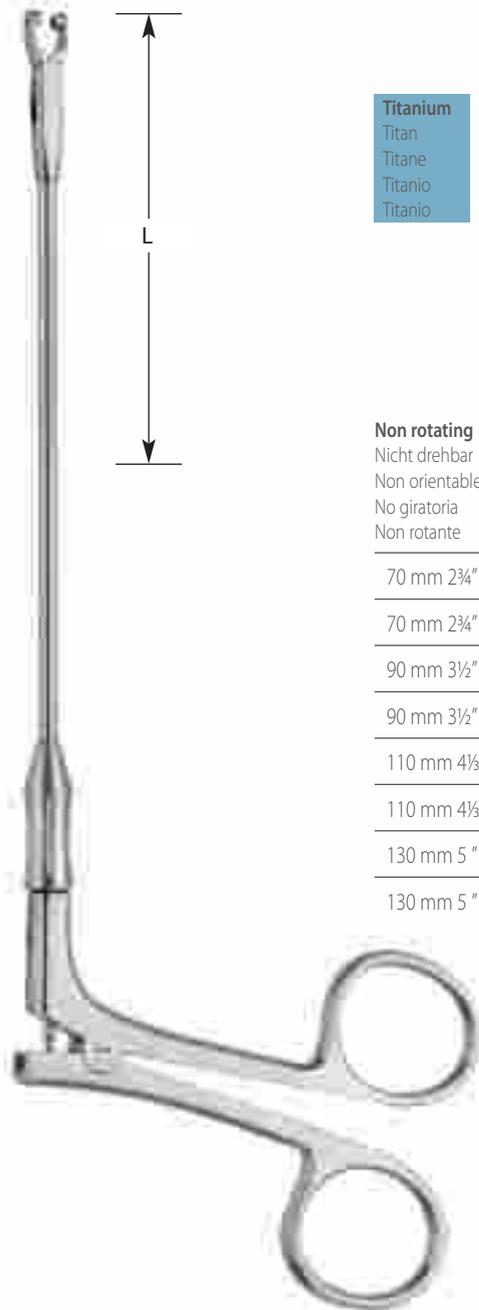
	MINI	STANDARD
70 mm 2¾"	<b>440-796-07</b>	<b>440-792-07</b>
70 mm 2¾"	<b>440-796-17</b>	<b>440-792-17</b>
90 mm 3½"	<b>440-796-09</b>	<b>440-792-09</b>
90 mm 3½"	<b>440-796-19</b>	<b>440-792-19</b>
110 mm 41/3"	<b>440-796-11</b>	<b>440-792-11</b>
110 mm 41/3"	<b>440-796-21</b>	<b>440-792-21</b>

### YASARGIL Clip Applying Forceps

Anlegezangen für YASARGIL Aneurysmen Clips  
 Pincès à appliquer les clips anévrismaux YASARGIL  
 Pinza aplicadora para YASARGIL clips de aneurisma  
 Pinza per applicare i YASARGIL clips per aneurisma



**Rotating**  
 Drehbar  
 Orientable  
 Giratoria  
 Rotante



**Titanium**  
 Titan  
 Titane  
 Titanio  
 Titanio



**Non rotating**  
 Nicht drehbar  
 Non orientable  
 No giratoria  
 Non rotante

	MINI	STANDARD
70 mm 2¾"	<b>440-775-50</b>	<b>440-775-90</b>
70 mm 2¾"	<b>440-775-51</b>	<b>440-775-91</b>
90 mm 3½"	<b>440-775-60</b>	<b>440-777-00</b>
90 mm 3½"	<b>440-775-61</b>	<b>440-777-01</b>
110 mm 4⅓"	<b>440-775-70</b>	<b>440-777-10</b>
110 mm 4⅓"	<b>440-775-71</b>	<b>440-777-11</b>
130 mm 5"	<b>440-775-80</b>	<b>440-777-20</b>
130 mm 5"	<b>440-775-81</b>	<b>440-777-21</b>



**Rotating**  
 Drehbar  
 Orientable  
 Giratoria  
 Rotante

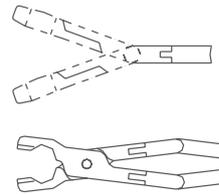
	MINI	STANDARD
70 mm 2¾"	<b>440-775-52</b>	<b>440-775-92</b>
70 mm 2¾"	<b>440-775-53</b>	<b>440-775-93</b>
90 mm 3½"	<b>440-775-62</b>	<b>440-777-02</b>
90 mm 3½"	<b>440-775-63</b>	<b>440-777-03</b>
110 mm 4⅓"	<b>440-775-72</b>	<b>440-777-12</b>
110 mm 4⅓"	<b>440-775-73</b>	<b>440-777-13</b>
130 mm 5"	<b>440-775-82</b>	<b>440-777-22</b>
130 mm 5"	<b>440-775-83</b>	<b>440-777-23</b>

### YASARGIL Clip Applying Forceps

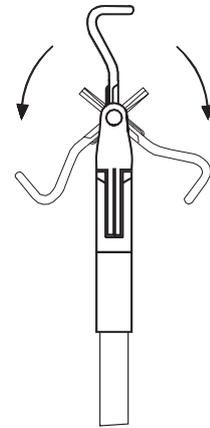
Anlegezangen für YASARGIL Aneurysmen Clips  
 Pinces à appliquer les clips anévrismaux YASARGIL  
 Pinza aplicadora para YASARGIL clips de aneurisma  
 Pinza per applicare i YASARGIL clips per aneurisma



**Titanium**  
 Titan  
 Titane  
 Titanio  
 Titanio



**With articulation**  
 Abwinklbar  
 Pivotant  
 Giratorio  
 Orientabile



**Rotating**  
 Drehbar  
 Orientable  
 Giratoria  
 Rotante

**Non rotating**  
 Nicht drehbar  
 Non orientable  
 No giratoria  
 Non rotante

**Rotating**  
 Drehbar  
 Orientable  
 Giratoria  
 Rotante

		MINI	STANDARD
without articulation	*190 mm 7½"	440-771-02	440-777-61
with articulation	*190 mm 7½"	440-771-31	440-773-11
without articulation	210 mm 8¼"	440-771-11	440-777-81
with articulation	210 mm 8¼"	440-780-19	440-773-21
without articulation	230 mm 9"	440-771-21	440-773-01
with articulation	230 mm 9"	440-771-41	440-773-31

	MINI	STANDARD
	440-771-04	440-771-63
	440-771-33	440-773-13
	440-771-13	440-771-83
	440-780-21	440-773-23
	440-771-23	440-773-03
	440-771-43	440-773-33

\* Only available in straight form.

\* Nur in gerader Modellvariante erhältlich.

\* Disponible uniquement en droit.

\* Sólo disponible en forma recta.

\* Disponibile solo in rettilineo.

### YASARGIL Clip Applying Forceps

Anlegezangen für YASARGIL Aneurysmen Clips  
 Pincès à appliquer les clips anévrismaux YASARGIL  
 Pinza aplicadora para YASARGIL clips de aneurisma  
 Pinza per applicare i YASARGIL clips per aneurisma

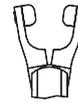


**Non rotating**  
 Nicht drehbar  
 Non orientable  
 No giratoria  
 Non rotante



	MINI	STANDARD
180 mm 7"	<b>440-776-18</b>	<b>440-778-18</b>

**Rotating**  
 Drehbar  
 Orientable  
 Giratoria  
 Rotante



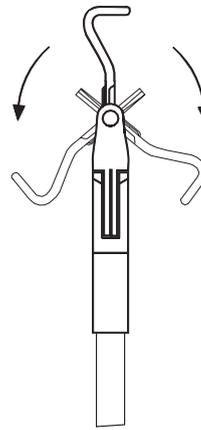
	MINI	STANDARD
180 mm 7"	<b>440-776-20</b>	<b>440-778-20</b>



**Non rotating**  
 Nicht drehbar  
 Non orientable  
 No giratoria  
 Non rotante



	MINI	STANDARD
170 mm 6¾"	<b>440-772-17</b>	<b>440-774-17</b>
210 mm 8¼"	<b>440-772-21</b>	<b>440-774-21</b>
230 mm 9"	<b>440-772-23</b>	<b>440-774-23</b>



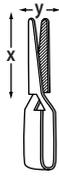
**Rotating**  
 Drehbar  
 Orientable  
 Giratoria  
 Rotante



**Rotating**  
 Drehbar  
 Orientable  
 Giratoria  
 Rotante

	MINI	STANDARD
170 mm 6¾"	<b>440-772-18</b>	<b>440-774-19</b>
210 mm 8¼"	<b>440-772-31</b>	<b>440-774-22</b>
230 mm 9"	<b>440-772-24</b>	<b>440-774-24</b>

**BIEMER**
**Vessels Clips - for temporary occlusion**

 Gefäßclips - für temporären Gebrauch  
 Serre-Fines - pour occlusion temporaire  
 Clips vasculares - para oclusión temporal  
 Pinze - per occlusioni temporari


x	y	gms
---	---	-----

**Length of jaws**

 Maullänge  
 Longuer des mors  
 Longitud de boca  
 Lungh. di morsi

**Opening of jaw**

 Maulöffnung  
 Ouverture des mors  
 Apertura de boca  
 Apertura di morsi

**Closing Force**

 Schließdruck  
 Force de fermeture  
 Fuerza de cierre  
 Forza di chiusura

**BIEMER**  
 14,5 cm/5¾"

**212-046-14**
**Applying forceps without lock**

 Anlegepinzette ohne Schloß  
 Pince sans fermeture  
 Pinza sin cierre de resorte  
 Applicatore senza cremagliera

**BIEMER**  
 14,5 cm/5¾"

**212-048-14**
**Applying forceps with lock**

 Anlegepinzette mit Schloss  
 Pince à appliquer avec blocage  
 Pinza con cierre  
 Applicatore con serratura

**BIEMER**

**x = 6,0 mm**
**y = 4,0 mm**
**gms = 30 - 40**
**Newton = 0,29 - 0,39**
**212-040-01**

**x = 9,0 mm**
**y = 5,0 mm**
**gms = 30 - 40**
**Newton = 0,29 - 0,39**
**212-040-02**

**x = 9,0 mm**
**y = 5,0 mm**
**gms = 30 - 40**
**Newton = 0,29 - 0,39**
**212-040-03**

## VESSEL CLIPS

### MEHDORN

#### Vessels Clips - for temporary occlusion

Gefäßclips - für temporären Gebrauch

Serre-Fines - pour occlusion temporaire

Clips vasculares - para oclusión temporal

Pinze - per occlusioni temporari

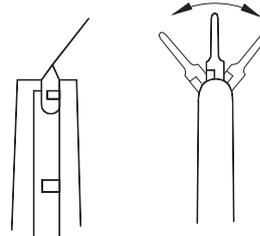
x	gms
<b>Length of jaws</b>	<b>Closing Force</b>
Maullänge	Schließdruck
Longuer des mors	Force de fermeture
Longitud de boca	Fuerza de cierre
Lunghg- di morsi	Forza di chiusura

x = 4 x 1,0 mm	x = 4 x 1,4 mm	x = 6 x 1,0 mm	x = 6 x 1,4 mm
gms = 10 - 15	gms = 10 - 15	gms = 10 - 15	gms = 15 - 20
Newton = 0,10 - 0,15	Newton = 0,10 - 0,15	Newton = 0,10 - 0,15	Newton = 0,15 - 0,20
<b>212-043-01</b>	<b>212-043-02</b>	<b>212-043-03</b>	<b>212-043-04</b>



**MEHDORN**  
15 cm/6"

**212-050-15**



#### Applying forceps without lock

Anlegepinzette ohne Schloß

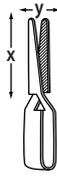
Pince sans fermeture

Pinza sin cierre de resorte

Applicatore senza cremagliera

**BIEMER-MÜLLER**

Approximators  
 Approximatoren  
 Approximateurs  
 Aproximadores  
 Approssimatori



x	y	gms
<b>Length of jaws</b> Maullänge Longuer des mors Longitud de boca Lungh. di morsi	<b>Opening of jaw</b> Maulöffnung Ouverture des mors Apertura de boca Apertura di morsi	<b>Closing Force</b> Schließdruck Force de fermeture Fuerza de cierre Forza di chiusura

x = 6,0 mm	x = 9,0 mm			
y = 4,0 mm	y = 5,0 mm			
gms = 30 - 40	gms = 30 - 40	gms = 30 - 40	gms = 30 - 40	gms = 30 - 40
Newton = 0,29 - 0,39	Newton = 0,29 - 0,39	Newton = 0,29 - 0,39	Newton = 0,29 - 0,39	Newton = 0,29 - 0,39
<b>212-014-00</b>	<b>212-010-00</b>	<b>212-011-00</b>	<b>212-012-00</b>	<b>212-013-00</b>



**BIEMER**  
14,5 cm/5¾"

**212-046-14**

**Applying forceps without lock**

Anlegepinzette ohne Schloß  
 Pince sans fermeture  
 Pinza sin cierre de resorte  
 Applicatore senza cremagliera



**BIEMER**  
14,5 cm/5¾"

**212-048-14**

**Applying forceps with lock**

Anlegepinzette mit Schloss  
 Pince à appliquer avec blocage  
 Pinza con cierre  
 Applicatore con serratura

## VESSEL CLIPS

### MÜLLER

#### Approximators

Approximatoren

Approximateurs

Aproximadores

Approssimatori

gms

#### Closing Force

Schließdruck

Force de fermeture

Fuerza de cierre

Forza di chiusura

$\varnothing = 1 \text{ mm}$	$\varnothing = 2 \text{ mm}$	$\varnothing = 3 \text{ mm}$	$\varnothing = 4 \text{ mm}$
gms = 25 - 30	gms = 25 - 30	gms = 25 - 30	gms = 25 - 30
Newton = 0,25 - 0,29	Newton = 0,25 - 0,29	Newton = 0,25 - 0,29	Newton = 0,25 - 0,29
<b>212-028-01</b>	<b>212-028-02</b>	<b>212-028-03</b>	<b>212-028-04</b>



**BIEMER**  
14,5 cm/5¾"

**212-046-14**

#### Applying forceps without lock

Anlegepinzette ohne Schloß

Pince sans fermeture

Pinza sin cierre de resorte

Applicatore senza cremagliera



**BIEMER**  
14,5 cm/5¾"

**212-048-14**

#### Applying forceps with lock

Anlegepinzette mit Schloss

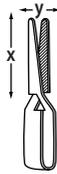
Pince à appliquer avec blocage

Pinza con cierre

Applicatore con serratura

**BIEMER**

Approximators  
 Approximatoren  
 Approximateurs  
 Aproximadores  
 Approssimatori



x	y	gms
---	---	-----

**Length of jaws**

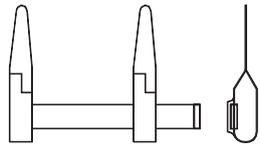
Maullänge  
 Longuer des mors  
 Longitud de boca  
 Lungh. di morsi

**Opening of jaw**

Maulöffnung  
 Ouverture des mors  
 Apertura de boca  
 Apertura di morsi

**Closing Force**

Schließdruck  
 Force de fermeture  
 Fuerza de cierre  
 Forza di chiusura



x = 6,0 mm

y = 4,0 mm

gms = 30 - 40

Newton = 0,29 - 0,39

**212-016-00**

**Applying forceps without lock**

Anlegepinzette ohne Schloß  
 Pince sans fermeture  
 Pinza sin cierre de resorte  
 Applicatore senza cremagliera



**BIEMER**  
 14,5 cm/5¾"

**212-044-14**

**BIEMER Approximator set consisting of 212-016-00 & 212-044-14**

BIEMER Approximator Set aus Artikel 212-016-00 & 212-044-14  
 BIEMER Approximateurs set 212-016-00 & 212-044-14  
 BIEMER Aproximadores set 212-016-00 & 212-044-14  
 BIEMER Approssimatori set 212-016-00 & 212-044-14

**212-050-14**



**212-016-00**

**BIEMER Approximator with key 212-041-01**

BIEMER Approximator mit Schlüssel 212-041-01  
 BIEMER Approximateurs avec clef 212-041-01  
 BIEMER Aproximadores con llave 212-041-01  
 BIEMER Approssimatori con chiave 212-041-01

**212-024-00**


**BIEMER Approximator with key 12-041-01 and needles 212-041-02**

BIEMER Approximator mit Schlüssel 12-041-01 und Nadeln 212-041-02  
 BIEMER Approximateurs avec clef 12-041-01 et d'aiguilles de rechange 212-041-02  
 BIEMER Aproximadores con llave 12-041-01 y de agujas de rechange 212-041-02  
 BIEMER Approssimatori con chiave 12-041-01 e di aghi di ricambio 212-041-02

**212-041-00**


**Key only**

Schlüssel allein  
 Clef seule  
 Llave suelta  
 Sola chiave

**212-041-01**

**1 Pair of spare needles**

1 Paar Ersatznadeln  
 1 paire d'aiguilles de rechange  
 1 par de agujas de rechange  
 1 paio di aghi di ricambio

**212-041-02**



## VESSEL CLIPS

### MÜLLER

#### Approximators

Approximatoren

Approximateurs

Aproximadores

Approssimatori

gms

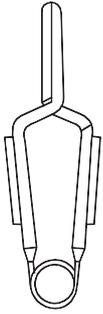
#### Closing Force

Schließdruck

Force de fermeture

Fuerza de cierre

Forza di chiusura



gms = 50

Newton = 0,49

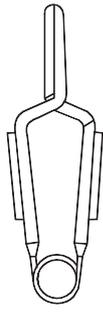
212-030-50



gms = 80

Newton = 0,79

212-030-80



gms = 50

Newton = 0,49

212-031-50



gms = 80

Newton = 0,79

212-031-80



gms = 50

Newton = 0,49

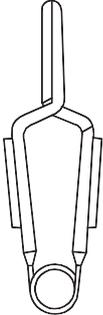
212-033-50



gms = 80

Newton = 0,79

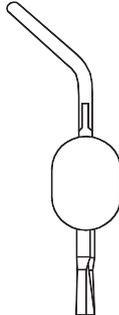
212-033-80



gms = 50

Newton = 0,49

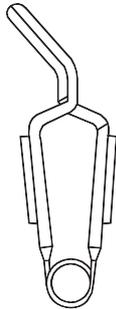
212-035-50



gms = 80

Newton = 0,79

212-035-80



gms = 50

Newton = 0,49

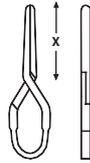
212-037-50



gms = 80

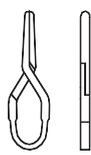
Newton = 0,79

212-037-80



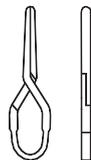
x	gms
<b>Length of jaws</b> Maullänge Longuer des mors Longitud de boca Lunhg. di morsi	<b>Closing Force</b> Schließdruck Force de fermeture Fuerza de cierre Forza di chiusura

**BULLDOG STANDARD**
**for temporary occlusion**

 für temporären Gebrauch  
 pour occlusion temporaire  
 para oclusión temporal  
 per occlusioni temporari


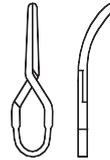
x = 7.0 mm

gms = 120-150

**440-567-40**


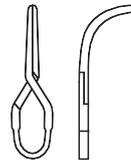
x = 9.0 mm

gms = 120-150

**440-567-50**


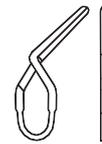
x = 9.0 mm

gms = 120-150

**440-567-52**


x = 9.0 mm

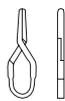
gms = 120-150

**440-567-54**


x = 9.0 mm

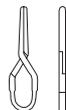
gms = 120-150

**440-567-46**
**BULLDOG MINI**
**for temporary occlusion**

 für temporären Gebrauch  
 pour occlusion temporaire  
 para oclusión temporal  
 per occlusioni temporari


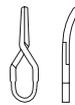
x = 4.0 mm

gms = 70-100

**440-567-10**


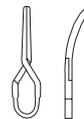
x = 5.0 mm

gms = 70-100

**440-567-20**


x = 6.0 mm

gms = 70-100

**440-567-12**


x = 7.0 mm

gms = 70-100

**440-567-22**



x	Ø	V	A
<b>Length</b>	<b>Vessel</b>	<b>Vein</b>	<b>Artery</b>
Länge	Gefäß	Vene	Artèrie
Longueur	Vaisseaux	Veine	Artère
Longitud	Vaso	Vena	Arteria
Lunghezza	Vaso	Vena	Arteria

### Single Clips

Einzel Clips  
Clips simples  
Clip singular  
Clips singoli

### Packing unit 2 pieces

Verpackungseinheit 2 Stück  
Boîtes de 2 pièces  
Cajas con 2 piezas  
Unità di 2 pezzi

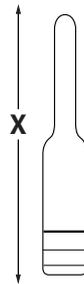


	x = 8 mm	x = 11 mm	x = 16 mm	x = 24 mm	x = 35 mm
	Ø = 0,3 - 1,0 mm	Ø = 0,6 - 1,4 mm	Ø = 1,0 - 2,2 mm	Ø = 1,5 - 3,3 mm	Ø = 2,0 - 5,0 mm
<b>V</b>	<b>212-052-11</b>	<b>212-052-12</b>	<b>212-052-13</b>	<b>212-052-14</b>	<b>212-052-15</b>
<b>A</b>	<b>212-052-01</b>	<b>212-052-02</b>	<b>212-052-03</b>	<b>212-052-04</b>	<b>212-052-05</b>



	x = 8 mm	x = 11 mm	x = 16 mm
	Ø = 0,3 - 1,0 mm	Ø = 0,6 - 1,4 mm	Ø = 1,0 - 2,2 mm
<b>V</b>	<b>212-052-31</b>	<b>212-052-32</b>	<b>212-052-33</b>
<b>A</b>	<b>212-052-21</b>	<b>212-052-22</b>	<b>212-052-23</b>

**Approximators**  
 Approximatoren  
 Approximateurs  
 Aproximadores  
 Approssimatori



x	Ø	V	A
---	---	---	---

Length	Vessel	Vein	Artery
Länge	Gefäß	Vene	Artère
Longueur	Vaisseaux	Veine	Artère
Longitud	Vaso	Vena	Arteria
Lunghezza	Vaso	Vena	Arteria



	x = 8 mm	x = 11 mm	x = 16 mm	x = 24 mm	x = 35 mm
	Ø = 0,3 - 1,0 mm	Ø = 0,6 - 1,4 mm	Ø = 1,0 - 2,2 mm	Ø = 1,5 - 3,3 mm	Ø = 2,0 - 5,0 mm
<b>V</b>	<b>212-052-51</b>	<b>212-052-52</b>	<b>212-052-53</b>	<b>212-052-54</b>	<b>212-052-54</b>
<b>A</b>	<b>212-052-41</b>	<b>212-052-42</b>	<b>212-052-43</b>	<b>212-052-44</b>	<b>212-052-44</b>



	x = 8 mm	x = 11 mm	x = 16 mm
	Ø = 0,3 - 1,0 mm	Ø = 0,6 - 1,4 mm	Ø = 1,0 - 2,2 mm
<b>V</b>	<b>212-052-71</b>	<b>212-052-72</b>	<b>212-052-73</b>
<b>A</b>	<b>212-052-61</b>	<b>212-052-62</b>	<b>212-052-63</b>



	x = 8 mm	x = 11 mm	x = 16 mm
	Ø = 0,3 - 1,0 mm	Ø = 0,6 - 1,4 mm	Ø = 1,0 - 2,2 mm
<b>V</b>	<b>212-052-91</b>	<b>212-052-92</b>	<b>212-052-93</b>
<b>A</b>	<b>212-052-81</b>	<b>212-052-82</b>	<b>212-052-83</b>

**for clips 8 - 11 mm**

für Clips 8 - 11 mm  
pour clips 8 - 11 mm  
para clips 8 - 11 mm  
per clips 8 - 11 mm

**for clips 16 - 35 mm**

für Clips 16 - 35 mm  
pour clips 16 - 35 mm  
para clips 16 - 35 mm  
per clips 16 - 35 mm

**for clips 8 - 11 mm**

für Clips 8 - 11 mm  
pour clips 8 - 11 mm  
para clips 8 - 11 mm  
per clips 8 - 11 mm

**without lock**

ohne Schloß  
sans fermeture  
sin cierre de resorte  
senza cremagliera

**with lock**

mit Schloß  
avec fermeture  
con cierre de resorte  
con cremagliera

**without lock**

ohne Schloß  
sans fermeture  
sin cierre de resorte  
senza cremagliera

**with lock**

mit Schloß  
avec fermeture  
con cierre de resorte  
con cremagliera

**without lock**

ohne Schloß  
sans fermeture  
sin cierre de resorte  
senza cremagliera

**with lock**

mit Schloß  
avec fermeture  
con cierre de resorte  
con cremagliera



**ACLAND**  
14 cm/5½"

**212-053-00**

**ACLAND**  
14 cm/5½"

**212-053-10**

**ACLAND**  
14 cm/5½"

**212-053-02**

**ACLAND**  
14 cm/5½"

**212-053-12**

**ACLAND**  
14 cm/5½"

**212-053-01**

**ACLAND**  
14 cm/5½"

**212-053-11**



**18 Clips**

150 x 95 x 13 mm

**988-765-02**

**Stainless steel**

Edelstahl  
Acier inoxydable  
Acero inoxidable  
Acciaio inox



**42 Clips**

210 x 125 x 17 mm

**988-765-03**

**Stainless steel**

Edelstahl  
Acier inoxydable  
Acero inoxidable  
Acciaio inox



19

## Pituitary Instruments

Hypophysektomie-Instrumente  
Instruments pour l'hypophysectomie  
Instrumentos para la hipofisectomía  
Strumenti per ipofisectomia

## PITUITARY & HYPOPHYSECTOMY INSTRUMENTS



**CUSHING-LANDOLT**

70 x 15 mm	<b>440-801-70</b>
90 x 15 mm	<b>440-801-90</b>
110 x 15 mm	<b>440-802-10</b>



**PAPAVERO-CASPAR**

80 x 11 mm	<b>440-803-11</b>
90 x 13 mm	<b>440-803-13</b>
100 x 15 mm	<b>440-803-15</b>



**HARDY**

70 mm	<b>440-805-70</b>
80 mm	<b>440-805-80</b>
90 mm	<b>440-805-90</b>



**Spreading forceps for specula**  
Spreizzange für Spekula  
Pince écartante pour spéculum  
Pinza dilatadora para espéculos  
Pinza divaricatrice per specoli

**LANDOLT**  
21 cm/8¼"

**440-804-21**



**Lamina Chisel**

Lamina-Meißel

Ciseau burin pour les lames de l'arc vertébral

Cinzel para lámina

Scalpello per lamina

**PAPAVERO**  
22 cm/8¾"

**440-803-22**



4 mm

**RAY**

19 cm/7½"

**440-810-04**



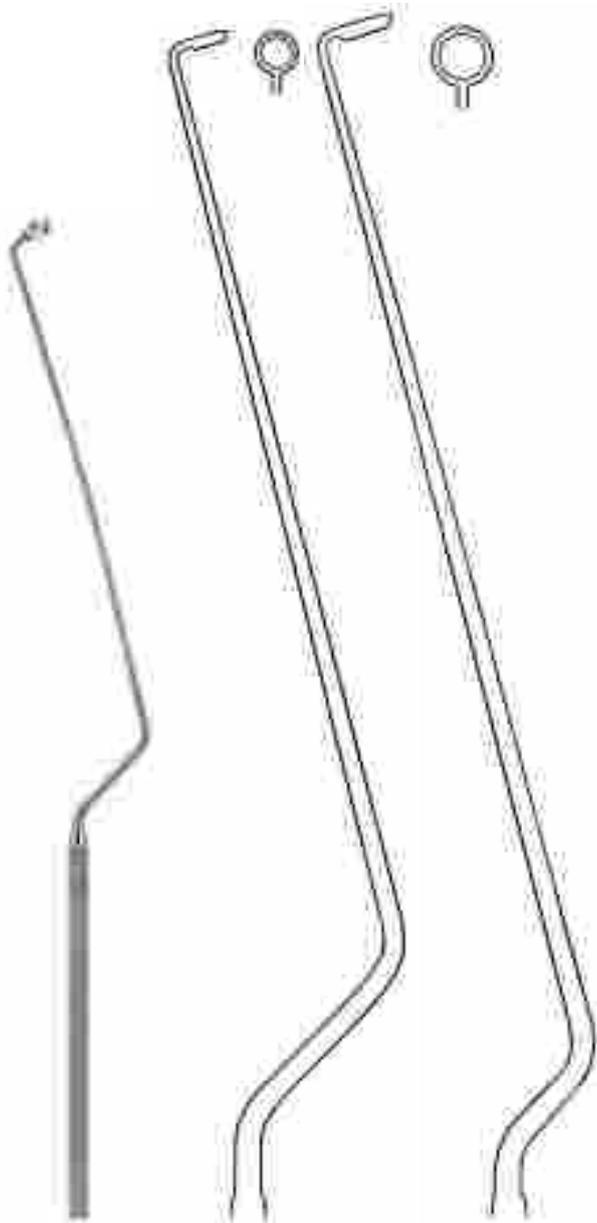
**RAY**

19 cm/7½"

				
	45°	90°	45°	90°
Ø 3 mm	440-811-03	440-812-03	440-813-03	440-814-03
Ø 4 mm	440-811-04	440-812-04	440-813-04	440-814-04
Ø 5 mm	440-811-05	440-812-05	440-813-05	440-814-05

## PITUITARY & HYPOPHYSECTOMY INSTRUMENTS

**Pituitary Curettes, flexible**  
 Hypophysenküretten, biegsam  
 Curettes á hypophyse, flexibles  
 Cureta para hipófisis, maleable  
 Curetta per ipofisi, malleabile

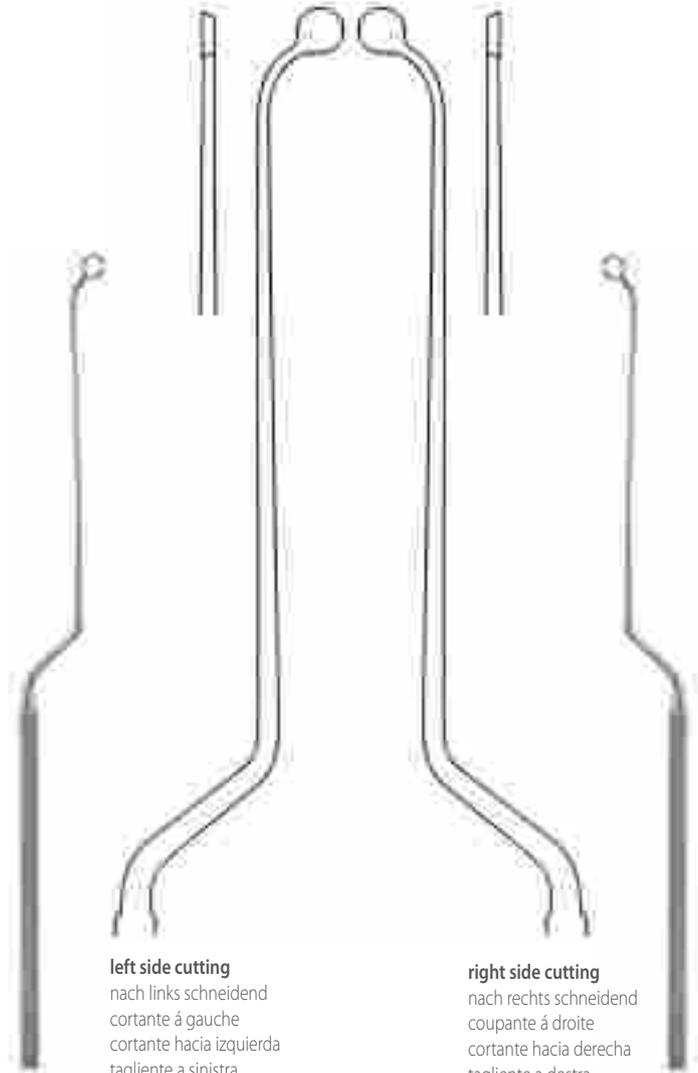


**HARDY**  
 26 cm/10¼"

Ø 4 mm  
**440-815-04**

Ø 6 mm  
**440-815-06**

**Curettes, flexible**  
 Küretten, biegsam  
 Curettes, flexibles  
 Curetas, maleable  
 Curette, malleabile



**left side cutting**  
 nach links schneidend  
 cortante á gauche  
 cortante hacia izquierda  
 tagliante a sinistra

**NICOLA**  
 22 cm/8¾"  
 Ø 6,5 mm  
**440-817-65**

**right side cutting**  
 nach rechts schneidend  
 coupante á droite  
 cortante hacia derecha  
 tagliante a destra

**NICOLA**  
 22 cm/8¾"  
 Ø 6,5 mm  
**440-819-65**

## PITUITARY & HYPOPHYSECTOMY INSTRUMENTS

**Curettes**  
 Küretten  
 Curettes  
 Curetas  
 Curette



Ø 6,5 mm

**Curettes, flexible**  
 Küretten, biegsam  
 Curettes, flexibles  
 Curetas, maleable  
 Curette, malleabile

**NICOLA**  
 22 cm/8¾"

**440-821-65**



**Raspatory**  
 Raspatorium  
 Rugine  
 Legras  
 Periostotomo

**NICOLA**  
 21,5 cm/8¼"

**440-823-00**



35° □

**CONE**  
 23 cm/9"

**CONE**  
 23 cm/9"

3 mm	<b>440-824-03</b>	3 mm	<b>440-825-03</b>
4 mm	<b>440-824-04</b>	4 mm	<b>440-825-04</b>
6 mm	<b>440-824-06</b>	6 mm	<b>440-825-06</b>
7 mm	<b>440-824-07</b>	7 mm	<b>440-825-07</b>
8 mm	<b>440-824-08</b>	8 mm	<b>440-825-08</b>
9 mm	<b>440-824-09</b>	9 mm	<b>440-825-09</b>

## PITUITARY & HYPOPHYSECTOMY INSTRUMENTS

**Enucleators, blunt**

Enukleatoren, stumpf

Enucléateurs, mousses

Enucleadores, romo

Enucleatore, smusso

**Dissectors, inner edge sharp**

Dissektoren, innen scharf

Dissectores, cortante en el interior

Dissecteur, tranchant à l'intérieur

Dissettori, bordo interno acuto

**Implant fork**

Implantationsgabel

Fourchette pour implants

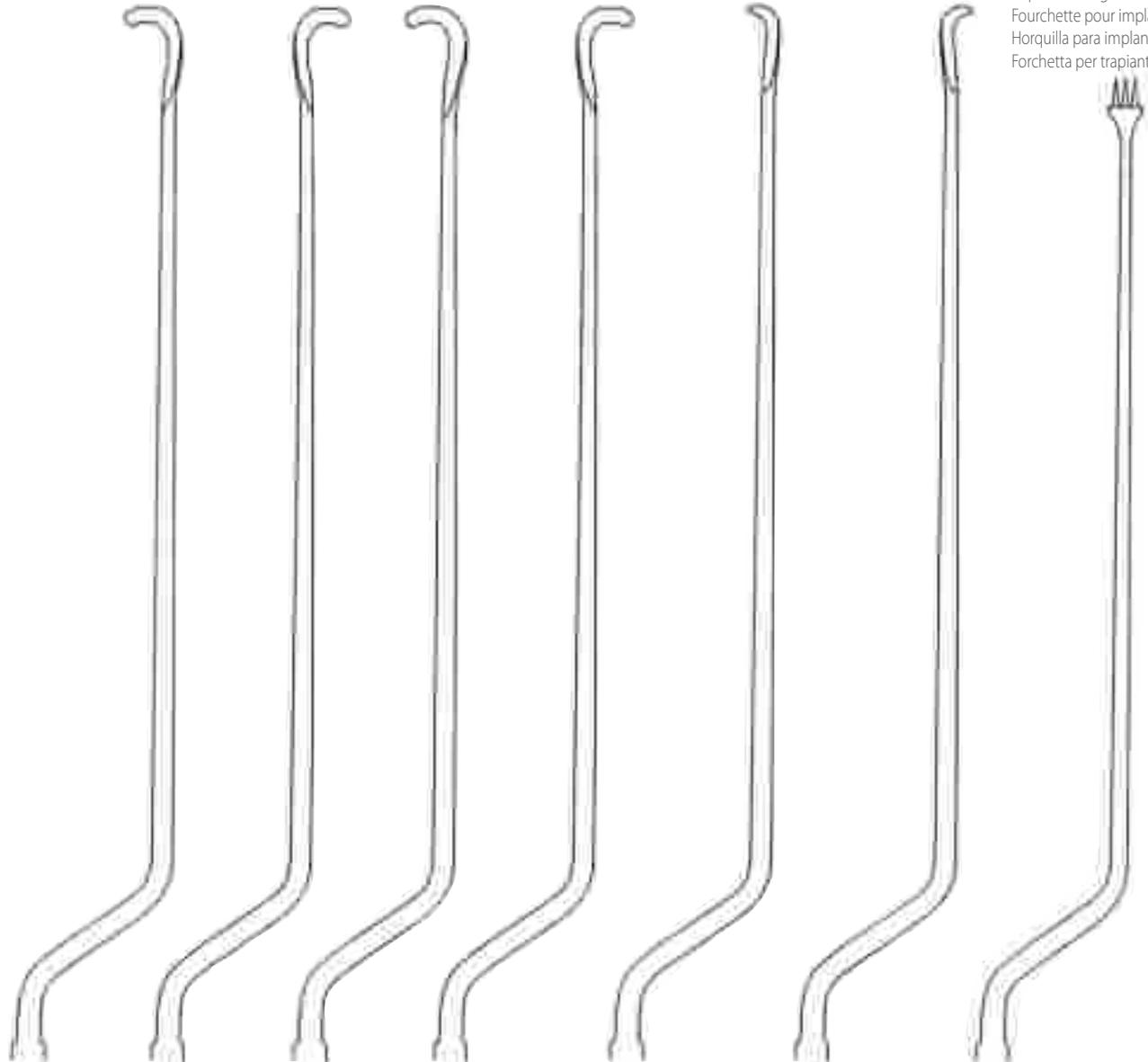
Horquilla para implantar

Forchetta per trapianto



**HARDY**

24,5 cm/9¾"



440-831-00

440-831-01

440-831-02

440-831-03

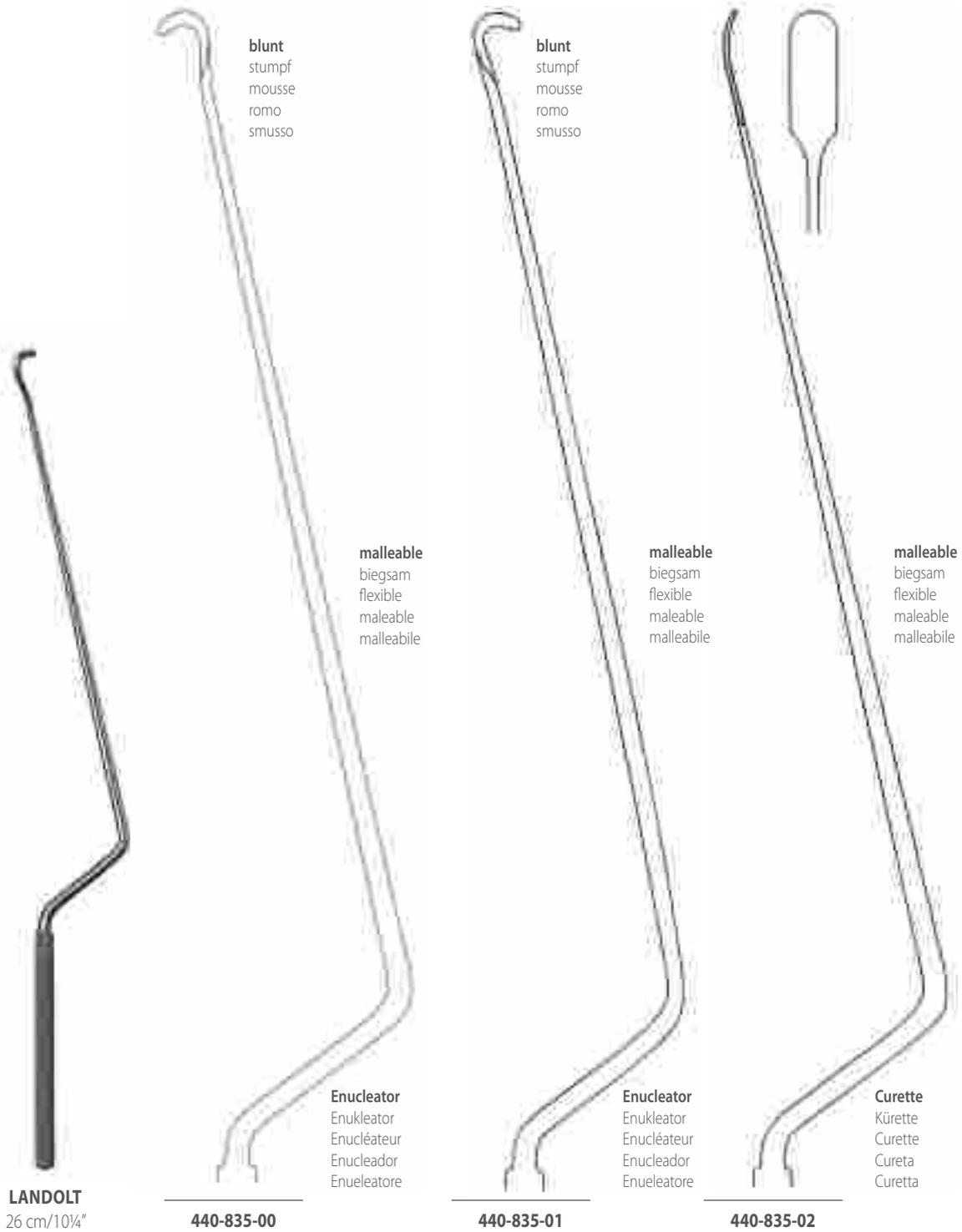
**HARDY-FAHLBUSCH**

440-832-01

440-832-02

440-831-04

## PITUITARY & HYPOPHYSECTOMY INSTRUMENTS



## PITUITARY & HYPOPHYSECTOMY INSTRUMENTS



**LANDOLT**  
26 cm/10 1/4"



**malleable**  
biegsam  
flexible  
maleable  
malleabile

**Spoon**  
Löffel  
Curette  
Cucharilla  
Cucchiaio

**440-835-03**

**blunt**  
stumpf  
mousse  
romo  
smusso

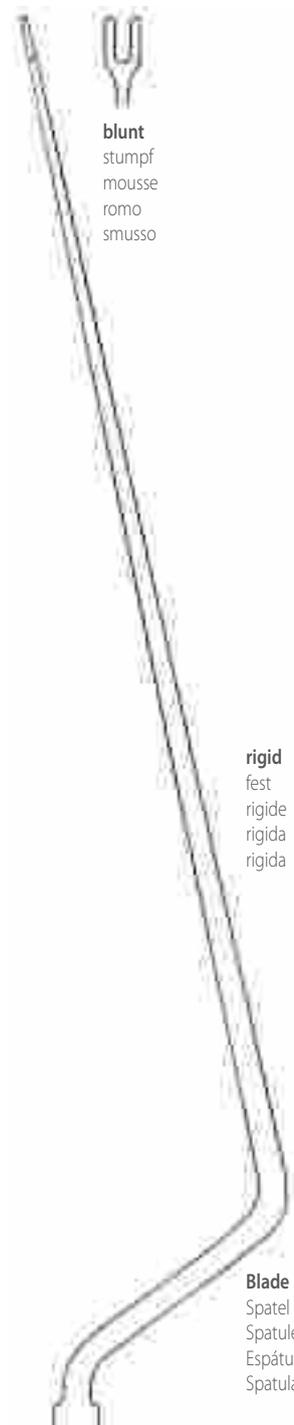


**malleable**  
biegsam  
flexible  
maleable  
malleabile

**Hook**  
Häkchen  
Crochet  
Ganchito  
Uncino

**440-835-04**

**blunt**  
stumpf  
mousse  
romo  
smusso



**rigid**  
fest  
rigide  
rigida  
rigida

**Blade**  
Spatel  
Spatule  
Espátula  
Spatula

**HOSOBUCHI**

**440-836-00**

## PITUITARY & HYPOPHYSECTOMY INSTRUMENTS



26 cm/10¼"



**FAHLBUSCH**  
 Ø 2,5 mm

**440-841-25**

**Curette, malleable**  
 Kürette, biegsam  
 Rugine, flexible  
 Legra, maleable  
 Periototomo, malleabile



**LANDOLT REULEN**  
 Ø 2,2 mm

**440-843-22**

**Raspatory**  
 Raspatorium  
 Rugine  
 Legras  
 Periototomo



**LANDOLT REULEN**  
 Ø 3,2 mm

**440-843-32**

**Raspatory**  
 Raspatorium  
 Rugine  
 Legras  
 Periototomo



**LANDOLT REULEN**  
 Ø 2,5 mm

**440-845-25**

**Curette**  
 Kürette  
 Curette  
 Cureta  
 Curetta



**LANDOLT REULEN**

**440-847-17**

**Blunt hook**  
 Stumpfes Häkchen  
 Crochet mousse  
 Ganchito romo  
 Uncino smusso



**LANDOLT REULEN**  
 2,0 mm

**440-849-20**

**Dissector**  
 Dissektor  
 Dissecteur  
 Dissector  
 Dissettore



**FAHLBUSCH**  
 Ø 2,0 mm

**440-840-20**

**Spoon, malleable**  
 Löffel, biegsam  
 Curette, flexible  
 Cucharilla, maleable  
 Cucchiaio, malleabile

## PITUITARY & HYPOPHYSECTOMY INSTRUMENTS

**Currettes**  
 Küretten  
 Currettes  
 Curetas  
 Curette



**angled up**  
 aufgewinkelt  
 vers le haut  
 hacia arriba  
 verso l'alto

**HARDY**  
 24 cm/9½"

3 mm	<b>440-850-03</b>
5 mm	<b>440-850-05</b>



**angled down**  
 abgewinkelt  
 vers le bas  
 hacia baja  
 verso il basso

**HARDY**  
 24 cm/9½"

3 mm	<b>440-851-03</b>
5 mm	<b>440-851-05</b>



**45°**  
**curved right**  
 rechts gebogen  
 courbé à droite  
 curvada a la derecha  
 curvo destro

**HARDY**  
 24 cm/9½"

3 mm	<b>440-852-03</b>
5 mm	<b>440-852-05</b>

**Currettes**  
 Küretten  
 Currettes  
 Curetas  
 Curette



**90°**  
**curved left**  
 links gebogen  
 courbé à gauche  
 curvada a la izquierda  
 curvo sinistro

**HARDY**  
 24 cm/9½"

3 mm	<b>440-853-03</b>
5 mm	<b>440-853-05</b>

## PITUITARY & HYPOPHYSECTOMY INSTRUMENTS

**Curettes**

Küretten  
 Curettes  
 Curetas  
 Curette

**Micro dissectors**

Mikro-Dissektoren  
 Micro dissecteurs  
 Micro disectores  
 Micro dissectori

5 mm



**curved right**

rechts gebogen  
 courbé à droite  
 curvada a la derecha  
 curvo destro

**HARDY**  
 24 cm/9½"

**440-854-05**

5 mm



**curved left**

links gebogen  
 courbé à gauche  
 curvada a la izquierda  
 curvo sinistro

**HARDY**  
 24 cm/9½"

**440-855-05**

2 mm



**angled up**

aufgewinkelt  
 vers le haut  
 hacia arriba  
 verso l'alto

**HARDY**  
 24 cm/9½"

**440-833-02**

2 mm



**angled down**

abgewinkelt  
 vers le bas  
 hacia baja  
 verso il basso

**HARDY**  
 24 cm/9½"

**440-834-02**

## PITUITARY & HYPOPHYSECTOMY INSTRUMENTS

**Spoon, malleable**  
 Löffel, biegsam  
 Curette, flexible  
 Cucharilla, maleable  
 Cucchiaino, malleabile



**HARDY**  
 23,5 cm/9¼"

440-856-24

**Micro mirror, moveable, for retrospective inspection**  
 Mikrospiegel, beweglich, zur retrospektiven Inspektion  
 Micro miroir, mobile, pour retrospective inspection  
 Micro espejo, móvil, de inspección retrospectiva  
 Micro-specchio, mobili, per l'ispezione retrospective



**HARDY**  
 23 cm/9"

440-830-00

**HARDY**  
 21 cm/8¼"

440-861-24



**ADSON**  
23 cm/9"  
440-210-23

**ADSON**  
23 cm/9"  
440-211-23

**ADSON**  
23 cm/9"  
440-213-23

**LANDOLT**  
21,5 cm/8½"  
440-875-22

**HARDY**  
21 cm/8¼"  
440-876-21

### PITUITARY & HYPOPHYSECTOMY INSTRUMENTS



**NICOLA**  
 Ø 2,5 mm

**440-882-16**

**Forceps, scoop-shaped**  
 Scharfe Zange mit löffelförmigem Maul  
 Pince, en forme de cuillère  
 Pinza, en forma de cuchara  
 Pinze, a forma di cucchiaino



**FAHLBUSCH**  
**440-881-16**

**Schere, horizontal cutting, curved on flat**  
 Schere, horizontal schneidend  
 Ciseaux, coupe horizontale  
 Tijeras, corte horizontal  
 Forbici, taglio orizzontale



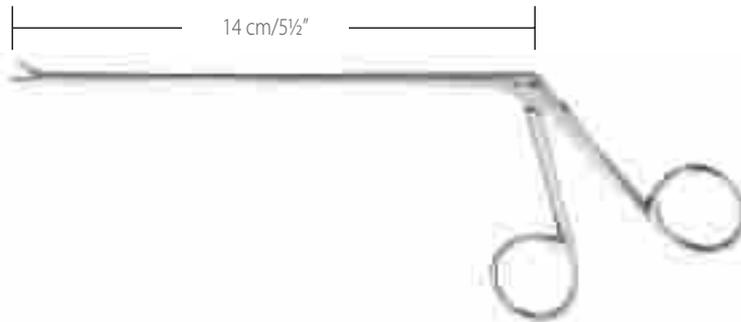
**YASARGIL-NICOLA**  
**440-886-16**

**Forceps, long conical jaws, delicate**  
 Fasszange mit feinem Maul  
 Pince, conique long mâchoires, fine  
 Pinza, cónico largo mandíbulas, fina  
 Pinze, lungo conico mascelle, fina



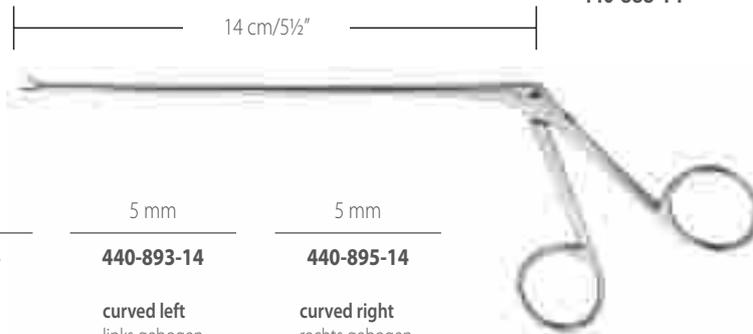
**NICOLA**  
**440-884-16**

**Scissors, straight**  
 Schere, gerade  
 Ciseaux, droits  
 Tijeras, rectas  
 Forbici, diritta



**SWEET**  
 10 mm

**440-888-14**



5 mm  
**440-892-14**

**straight**  
 gerade  
 droit  
 recta  
 diritta

5 mm  
**440-893-14**

**curved left**  
 links gebogen  
 courbé à gauche  
 curvada a la izquierda  
 curvo sinistro

5 mm  
**440-895-14**

**curved right**  
 rechts gebogen  
 courbé à droite  
 curvada a la derecha  
 curvo destro

**DECKER**



20 |

## Containers

Container

Container

Contenedores

Container

### Aluminium

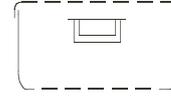


285 x 280 x 100 mm



**Lid perforated - Bottom non perforated**  
Deckel gelocht - Boden ungelocht  
Courvercle perforé - Fond non perforé  
Tapa perforada - Fondo no perforada  
Coperchio forato - Fondo non forato

**988-620-01**



**Lid perforated - Bottom perforated**  
Deckel gelocht - Boden gelocht  
Courvercle perforé - Fond perforé  
Tapa perforada - Fondo perforada  
Coperchio forato - Fondo forato

**988-621-01**

### Wire baskets, special steel

Siebkörbe Edelstahl  
Paniers grillagés, inox  
Cestillos de acero fino  
Cestelli in acciaio fino



**988-629-01** | 255 x 245 x 30 mm

**988-629-02** | 255 x 245 x 50 mm

**988-629-03** | 255 x 245 x 70 mm

**988-629-04** | 255 x 245 x 100 mm

### Separate floors

Siebboden  
Fond du crible  
Cestas-cuerpos  
Fondo di Cestello



**988-629-11** | 255 x 245 x 30 mm

### Silicone Mats

Silikon-Noppenmatte  
Tapis silicone  
Planchas granuladas de silicona  
Stuoia di silicone



**988-695-21** | 245 x 245 mm

**Stainless Steel**  
Edelstahl  
Inox  
acero inoxidable  
acciaio inossidabile



**Lid perforated - Bottom perforated**  
Deckel gelocht - Boden gelocht  
Couvercle perforé - Fond perforé  
Tapa perforada - Fondo perforada  
Coperchio forato - Fondo forato

**Sterilization cases with silicone cushioning stripes**

Sterilisierkassetten mit Silikon-Noppenstreifen  
Stérilisation des cas, avec des bandes de silicone de rembourrage  
Esterilización casos, con franjas de relleno de silicona  
Sterilizzazione dei casi, con imbottitura strisce di silicone

L x B x H	
200 x 140 x 50 mm	<b>988-290-01</b>
400 x 100 x 50 mm	<b>988-290-02</b>
400 x 150 x 50 mm	<b>988-290-03</b>
280 x 195 x 50 mm	<b>988-290-04</b>
265 x 255 x 50 mm	<b>988-290-05</b>
370 x 190 x 50 mm	<b>988-290-06</b>
380 x 260 x 50 mm	<b>988-290-07</b>
430 x 230 x 50 mm	<b>988-290-08</b>
380 x 125 x 50 mm	<b>988-290-09</b>
470 x 250 x 50 mm	<b>988-290-10</b>

**Sterilization cases with silicone cushioning stripes on two Racks**

Sterilisierkassetten mit Silikon-Noppenstreifen und Zweifach-Lagerung  
Stérilisation des cas, avec rembourrage en silicone sur deux bandes Racks  
Esterilización casos, con relleno de silicona en dos franjas Bastidores  
Sterilizzazione dei casi, con imbottitura di silicone sul Strisce due Scaffalature

L x B x H	
200 x 140 x 65 mm	<b>988-291-01</b>
400 x 100 x 65 mm	<b>988-291-02</b>
400 x 150 x 65 mm	<b>988-291-03</b>
280 x 195 x 65 mm	<b>988-291-04</b>
265 x 255 x 65 mm	<b>988-291-05</b>
370 x 190 x 65 mm	<b>988-291-06</b>
380 x 260 x 65 mm	<b>988-291-07</b>
430 x 230 x 65 mm	<b>988-291-08</b>
380 x 125 x 65 mm	<b>988-291-09</b>
470 x 250 x 65 mm	<b>988-291-10</b>

**Sterilization cases with silicone bench**

Sterilisierkassetten mit Silikon-Bank  
Stérilisation des cas, avec banc de silicone  
Esterilización casos, de silicona en banco  
Sterilizzazione dei casi, con banco di silicone

L x B x H	
200 x 140 x 55 mm	<b>988-292-01</b>
400 x 100 x 55 mm	<b>988-292-02</b>
400 x 150 x 55 mm	<b>988-292-03</b>
280 x 195 x 55 mm	<b>988-292-04</b>
265 x 255 x 55 mm	<b>988-292-05</b>
370 x 190 x 55 mm	<b>988-292-06</b>
380 x 260 x 55 mm	<b>988-292-07</b>
430 x 230 x 55 mm	<b>988-292-08</b>
380 x 125 x 55 mm	<b>988-292-09</b>
470 x 250 x 55 mm	<b>988-292-10</b>





# Neurosurgery

Neurochirurgie

Neurochirurgie

Neurocirugía

Neurochirurgia



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## **Neurosurgery**

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