

+Redamed

NEUROCHIRURGIE
NEUROSURGERY
NEUROCIRUGIA
NEUROCHIRURGIA





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Charrière (Ch) French (F)	Durchmesser in mm	Inches
1	0,33	0,013
2	0,67	0,025
3	1,00	0,039
4	1,33	0,051
5	1,67	0,065
6	2,00	0,0787
7	2,33	0,092
8	2,67	0,105
9	3,00	0,1181
10	3,33	0,131
11	3,67	0,144
12	4,00	0,1575
13	4,33	0,170
14	4,67	0,184
15	5,00	0,1968
16	5,33	0,210
17	5,67	0,223
18	6,00	0,2362
19	6,33	0,249
20	6,67	0,263
21	7,00	0,2756
22	7,33	0,288
23	7,67	0,302
24	8,00	0,3150
25	8,33	0,328
26	8,67	0,341
27	9,00	0,3543
28	9,33	0,367
29	9,67	0,380
30	10,00	0,3973
31	10,33	0,407
32	10,67	0,420
34	11,33	0,446
36	12,00	0,4724
38	12,67	0,494
40	13,33	0,5199
45	15,00	0,5905

Gauge (G)	Durchmesser in mm	Inches
35	0,13	0,005
34	0,18	0,007
33	0,20	0,008
32	0,23	0,009
31	0,25	0,010
30	0,30	0,012
29	0,33	0,013
28	0,36	0,014
27	0,41	0,016
26	0,46	0,018
25	0,51	0,020
	0,53	0,021
24	0,56	0,022
23	0,64	0,025
22	0,71	0,028
21	0,81	0,032
20	0,89	0,035
	0,97	0,038
19	1,07	0,042
18	1,27	0,050
17	1,50	0,059
16	1,65	0,065
15	1,83	0,072
14	2,11	0,083
13	2,41	0,095
12	2,77	0,109
11	3,05	0,120
10	3,40	0,134
9	3,76	0,148
8	4,19	0,165
7	4,57	0,180
6	5,16	0,203

1 OZ	0,028 ml
5 OZ	0,140 ml
16 OZ	0,450 ml

35 OZ	1,0 l
128 OZ	3,7 l

GARANTIE / WARRANTY / GARANTIA / GARANZIA

GARANTIE

Wir gewähren auf alle **Reda**-Instrumente 5 Jahre Garantie. Voraussetzung ist der sach- und fachgerechte Einsatz der Instrumente. Von der Garantie sind Verschleißerscheinungen ausgeschlossen.

WARRANTY

Our **Reda** products are free from manufacturing defects in material and workmanship. We therefore give on all instruments a guarantee of five years provided that the instruments are maintained and cleaned properly and used normally for their intended purpose.

GARANTIA

Estamos convencidos de nuestra calidad y concedemos a todos los instrumentos de **Reda** 5 años de garantía contra cualquier defecto de fabricación, siempre y cuando se usen adecuadamente. De la garantía excluimos la manifestación de desgaste.

GARANZIA

Siamo convinti della nostra qualità e concediamo cinque anni di garanzia sulla funzione dei tutti gli strumenti **Reda** sotto la presupposizione che l'utilizzo è da esperto. Escluso della garanzia sono tracce di consumo.

Arbeitsanweisung Aufbereitung (Reinigung) und Sterilisation von resterilisierbaren chirurgischen Instrumenten

DIN EN ISO 17664:2018

Hersteller:
REDA Instrumente GmbH, Gänsäcker 34
78532 Tuttlingen

Alle von Reda gelieferten wieder verwendbaren Instrumente wurden ausschließlich für den chirurgischen Gebrauch konstruiert und dürfen zu keinen anderen Zwecken benutzt werden. Unsachgemäße Handhabung und sorglose Pflege sowie zweckentfremdeter Gebrauch können zu vorzeitigem Verschleiß der Instrumente führen. Die Produkte sind bei der Auslieferung nicht sterilisiert.

Reinigungsvorbereitung

Fabrikneue Instrumente müssen vor der ersten Anwendung den gesamten Aufbereitungsprozess durchlaufen. Instrumente unmittelbar nach Anlieferung aus den Folienverpackungen entnehmen und in trockenen Räumen bei gleichbleibender Raumtemperatur luftoffen lagern, um Kondensationsbildung zu vermeiden. Die Instrumente keinen Sonnenlichteinstrahlungen oder Dämpfen durch Chemikalien (Säuren oder scharfe Reinigern) aussetzen. Vor der ersten Sterilisation alle Schutzkappen und Folien vollständig entfernen und anschließend reinigen.

Gebrauchte Instrumente unmittelbar nach Beendigung des Eingriffs von Blut, Gewebe und Arzneimittel reinigen. Instrumente in eine freigegebene Lösung eines kombinierten Reinigungs- und Desinfektionsmittels, das keine proteinfixierende Wirkung besitzt, einlegen. Dosierung des Herstellers beachten. Nicht in NaCl Lösung einlegen, ansonsten Gefahr für Loch- bzw. Spannungsriss-Korrosion

Überfüllung von Instrumentensieben und Wasch-Trays vermeiden.

Gelenkinstrumente vor dem Aufbereiten öffnen. Zerlegbare Instrumente gemäß Bedienungsanleitung (Piktogramm) zur Reinigung zerlegen. Reinigungsgerechtes Zubehör verwenden. Für die manuelle Reinigung nie Metallbürsten oder Metallschwämme verwenden. Spülmaschinen und Ultraschallanlagen nicht überladen. Spül- oder Schallschatten vermeiden. Dosierung, Einwirkzeit und Einwirktemperatur bei der Desinfektion und Reinigung unbedingt einhalten. Nach der Reinigung sorgfältig spülen. Möglichst vollentsalztes (demineralisiertes) Wasser verwenden. Nach dem Spülen ausreichend trocknen. Abgenutzte, korrodierte, deformierte, poröse oder anderweitig beschädigte Instrumente aussortieren.

Aus hygienischen Gründen müssen Instrumente, die zur Reparatur eingesandt werden komplett aufbereitet werden. Gelenkinstrumente nach jeder Aufbereitung mit einem Pflegemittel auf Basis von Paraffinöl behandeln (gilt nicht für flexible Endoskope und Zubehör). Funktionsprüfung in zusammengebautem Zustand durchführen. Instrumente mit Rastensperre vor der Sterilisation nur im ersten Zahn schließen.

Als Sterilisationsverfahren empfehlen wir die Dampfsterilisation (üblicherweise mit Sattedampf bei 134° C)

Sterilisation ist kein Ersatz für Sauberkeit!

Die Broschüre "Instrumenten-Aufbereitung richtig gemacht" des Arbeitskreis Instrumenten-Aufbereitung dient als Anhalt.

Reda Instrumente GmbH
78532 Tuttlingen

IMPORTANT INFORMATION CONCERNING PREPARING AND STERILIZING SURGICAL INSTRUMENTS

Dear Sirs,
please read the following instructions very carefully before using the instruments.

1. INITIAL USE

All instruments which are being used for the first time must be thoroughly cleaned, rinsed and then sterilized before using.

2. TREATING INSTRUMENTS AFTER USAGE

- a.) The instruments might be immediately thoroughly cleaned and disinfected. Please follow the manufacturer's instructions when using cleaning agents and disinfectants.
- b.) Instruments which may be dismantled must be cleaned and disinfected after being taken apart.
- c.) Cleaning may be carried out either manually or with a machine. Care should be taken that only cleaning agents and disinfectants are used, which are changed daily.
- d.) Following chemical disinfection and manual cleaning, all instruments must always be thoroughly rinsed under running water.
- e.) The temperature of water used in a machine for cleaning should not exceed 45°C.
- f.) Whether cleaning is carried out manually or by machine, we especially ask you to ensure that the correct dosage for cleaning solutions or the correct combination of disinfectant and cleaning solution, is employed. Similar importance should be applied to the length of time the agents require to perform properly and to the temperature set.
- g.) Hinged instruments should be opened before cleaning.
- h.) Please ensure that the perforated instrument trays, when loaded, do not exceed 10 kg in weight.
- i.) Please take care that when instruments are being cleaned they are arranged proper in a manne that fluids can circulate freely.
- j.) Deposits remaining after the cleaning process must be completely removed in the first rinse which now follows. The optimum temperature for final rinsing has proved to be between 70° and 90° C. Please use only purified water in this final cleaning stage.
- k.) The instruments must be carefully dried after cleaning and rinsing is completed.
- l.) Moving parts and the cutting edges of shears and scissors must be treated with preservatives which are both suitable and physiologically safe.

3. TESTING FOR CORRECT FUNCTIONING

- a.) Instruments must be carefully and thoroughly checked before every occasion that they are used.

- b.) After each time they are cleaned, the instruments must be macroscopically clean, i.e., visibly free from proteinbased residues and other soiling.
- c.) Care should be taken so that cracks, breakages and corrosion are noticed.
- d.) Instruments with flecks should be separated and taken out for special treatment.
- e.) All moving parts as well as working tips and blades should be checked with special care.
- f.) Checking should be carried out according to the extent to which the instruments will be used.
- g.) Instruments which are in any way defective or damaged should be immediately sorted out from the others.

4. STERILIZATION

- a.) All stainless steel surgical instruments supplied by us may be sterilized in an autoclave.
- b.) Please follow the manufacturer's operating instructions when using autoclave. All machines used must comply with all current quality and other standards.
- c.) Instruments are being sterilized/ autoclaved at a temperature of 134°C.
- d.) Sterilization packing material must comply with all current standards.
- e.) Instruments with ratchets or self-retaining mechanisms should be sterilized opened or in the first ratchet position.
- f.) Please ensure that perforated instrument trays, when loaded do not exceed 10 kg in weight.

5. IN GENERAL

- a.) All surgical instruments supplied by us have been thoroughly inspected before dispatch and leave our factory in perfect condition. Damage which can arise as a result of transporting, cleaning, preserving, sterilizing or storing, must be prevented.
- b.) Please handle surgical instruments always with the utmost care.
- c.) Instruments must be stored in a clean and dry place.
- d.) If you have any queries or problems please contact us at any time:

We should like to point out that, if the above-mentioned directions are not followed or the instruments supplied by us are not properly used, all guarantee claims become void and any consequences must be borne by yourselves.

SUGERENCIAS PARA LA LIMPIEZA, ESTERILIZACIÓN Y MANTENIMIENTO DE INSTRUMENTOS QUIRÚRGICOS

ENJUAGADO

Tras el uso enjuagar enseguida los instrumentos bajo un chorro de agua caliente (no hirviendo). El enjuagado debe servir para quitar los residuos de sangre, mucosas y tejidos.

LIMPIEZA

Si la limpieza no se efectúa inmediatamente después del enjuagado, los instrumentos tienen que sumergirse en una solución de agua y detergente con PH neutro (7)

Para los instrumentos muy delicados (algunos tipos de porta agujas o tijeras se aconseja una limpieza manual: ver punto "C").

a.- Limpieza en la pila de ultrasonido

Los instrumentos tienen que estar en la pila el tiempo necesario recomendado por el fabricante para efectuar el ciclo del lavado, generalmente de 5 a 10 minutos.

Los instrumentos con bisagras o juntas (articulaciones) tienen que sumergirse en la pileta en posición abierta.

Asegurarse de que las hojas afiladas de las tijeras, bisturíes para gingivectomía, curetas, etc. no estén en contacto con otros instrumentos.

Todos los instrumentos deben estar completamente sumergidos en la solución de lavado.

No poner instrumentos de diferentes metales (acero inoxidable, instrumentos cromados, latón, etc.) en el mismo ciclo de lavado.

Cambiar a menudo la solución para el lavado, como mínimo todas las veces que lo recomienda el fabricante de la pileta de ultrasonidos.

Enjuagar concienzudamente los instrumentos con agua corriente tras lavado con ultrasonidos para quitar los residuos de la solución de lavado.

b.- Limpieza con lavadora

Seguir las indicaciones del fabricante. Asegurarse de que los instrumentos hayan sido lubricados tras el último ciclo de lavado y antes del ciclo de esterilización.

c.- Limpieza manual

La mayor parte de los fabricantes de instrumentos indican el lavado con los ultrasonidos como el modo mejor y más eficaz para limpiar los instrumentos quirúrgicos, especialmente los que tienen bisagras, cierres y en general articulaciones. Si la limpieza con los ultrasonidos no es posible, se aconseja usar el método siguiente:

- Usar cepillos rígidos de plástico, nylon, etc.
- Cepillar concienzudamente los instrumentos más delicados y, si es posible, enjuagar, limpiar y esterilizar estos instrumentos separadamente.
- Verificar que toda la superficie de estos instrumentos esté limpia.
- Tras haber cepillado los instrumentos, enjuagarlos bajo el chorro de agua corriente.
- Durante el enjuagado abrir y cerrar las tijeras, las pinzas hemostáticas, los porta agujas y los demás instrumentos con bisagras o juntas y asegurarse de que las partes internas de las bisagras estén perfectamente enjuagadas como la superficie externa del instrumento.

SECADO, LUBRIFICACIÓN E INSPECCIÓN

Tras las operaciones de limpieza y de enjuagado, los instrumentos quirúrgicos tienen que ser secados perfectamente.

Todos los instrumentos con juntas o bisagras (acción "metal contra metal") como tijeras, pinzas hemostáticas, porta agujas, fórceps de extracción, etc., tienen que ser lubricados. Se aconsejan lubricantes específicos para el instrumental quirúrgico. No usar aceites o lubricantes industriales.

A este punto es buena norma inspeccionar el estado de cada instrumento y verificar el funcionamiento según el uso específico. Controlar y asegurarse de que:

- Las hojas de las tijeras estén lisas de arriba abajo y de que, una vez cerradas, no hagan juego. Probar las tijeras cortando gasa muy fina. Tres cuartas parte de la hoja tienen que cortar la gasa sin retenerla.

- Las puntas de las pinzas estén al mismo nivel.
- Las pinzas hemostáticas y los porta agujas no dejen pasar la luz entre las puntas cuando estén cerradas, se abran y cierren fácilmente y que las bisagras no estén demasiado flojas.
- Controlar el desgaste de la porta agujas sobre la superficie interna de las puntas.
- Las cánulas metálicas de aspiración estén bien limpias en su interior.
- Los instrumentos cortantes y los bisturíes tengan las hojas bien afiladas y no estropeadas.

ESTERILIZACIÓN EN AUTOCLAVE

Tras haber enjuagado, limpiado, secado, lubricado e inspeccionado los instrumentos, éstos pueden ser preparados para la esterilización separadamente o en serie.

Instrumentos individuales:

Las bolsas especiales monouso son el ideal para contener los instrumentos. Asegurarse de que las bolsas que contendrán los instrumentos con cierres y articulaciones (pinzas hemostáticas, porta agujas, etc.) sean lo bastante grandes como para contener los citados instrumentos en posición abierta.

Instrumentos en serie:

Poner los instrumentos en los especiales cestos o bandejas de acero inoxidable. Poner los instrumentos más pesados en la parte inferior cuando sean necesarias varias bandejas.

No cerrar nunca los instrumentos durante el ciclo en autoclave. Un instrumento cerrado no estará nunca bien esterilizado, ya que el vapor no puede penetrar en la parte de cierre a contacto "metal contra metal". En el instrumento podría además romperse en la parte de la bisagra a causa de la expansión del metal debida al calor durante el ciclo del autoclave.

No cargar demasiado la cámara del autoclave ya que algunos instrumentos podrían formar "zonas de sombra" sobre otros en los que el vapor no penetraría.

ATENCIÓN

Al final del ciclo de esterilización - antes del ciclo de secado- abrir ligeramente la portezuela del autoclave y proceder con el ciclo desecado según las instrucciones del fabricante. Si la portezuela del autoclave se abriese completamente antes del ciclo de secado, el aire frío de la habitación entraría en la cámara del autoclave causando la formación de condensación sobre los instrumentos y de consecuencia aparecerían las manchas de agua que vemos a menudo en los mismos.

ESTERILIZACIÓN EN FRÍO:

La mayor parte de las soluciones para la esterilización en frío esterilizan los instrumentos completamente tras 10 horas de inmersión. Esta acción química prolongada puede ser más perjudicial para los instrumentos que el ciclo normal de 20 minutos en autoclave.

Si los instrumentos tienen necesidad de ser simplemente "desinfectados", el proceso en frío es adecuado, ya que la desinfección tiene lugar en 10 minutos solamente.

Recuerde bien la diferencia entre:

ESTÉRIL - término absoluto (ningún organismo logra sobrevivir) y

DESINFECTADO - perfectamente limpio.

Usen siempre la técnica más adecuada de esterilización/limpieza de los instrumentos según el uso que se haga posteriormente de ellos.

Recuerden que la esterilización de los instrumentos no sustituye la limpieza de los mismos.

Recomendamos no volver a usar ni esterilizar los artículos de un solo uso.

Si se tratan en el modo correcto los instrumentos contruidos con las modernas aleaciones inoxidables pueden durar muchos años.

INDICAZIONI PER LA CURA, PULITURA E LA STERILIZZAZIONE DELLO STRUMENTARIO CHIRURGICO RISTERILIZZABILE

Misure preventive anticorrosione

- 1) Raggruppare accuratamente gli strumenti correttamente confezionati e sterilizzati prima dell'operazione; selezionarli secondo l'intervento. Verificare sempre che la confezione esterna sia integra e che lo strumento stesso non sia danneggiato.
- 2) Assicurarli tramite l'indicatore di sterilizzazione collocato all'interno del vaglio che il contenuto sia stato sterilizzato.
- 3) Disporre gli strumenti seguendo l'ordine di utilizzo durante l'operazione; lasciare gli strumenti non necessari nel vaglio; predisporre gli strumenti solo immediatamente prima dell'operazione.
- 4) Nel corso dell'operazione rimuovere dagli strumenti sangue ed altri materiali biologici; dopo l'uso, riporre gli strumenti nel corretto alloggiamento.
- 5) Risciacquare opportunamente gli strumenti cavi, al fine di evitare l'adesione di sangue e polvere d'osso.
- 6) Per la pulitura degli strumenti utilizzare una soluzione lattata o una soluzione salina, ma non immergerli nelle suddette soluzioni.
- 7) Iniziare l'operazione di pulitura subito dopo l'intervento. Strumenti utilizzati su pazienti con possibili infezioni: smaltire in modo analogo, eliminando sangue, polvere d'osso parti di tessuto in eccesso.
- 8) Pulire gli strumenti in un luogo previsto nell'ambito della sala operatoria.

Nel caso in cui gli strumenti vadano collocati direttamente nella centrale di sterilizzazione, è necessario dapprima coprirli, per evitare il rischio di contaminazione ai danni del personale o dell'ambiente circostante.

Disinfezione

Durante l'uso di disinfettanti chimici è necessario osservare scrupolosamente le indicazioni del produttore; utilizzare le soluzioni sempre previa diluizione. Nella fase termica di disinfezione con acqua bollente assicurarsi che l'acqua sia priva di corpi estranei.

Pulitura

Indipendentemente dal metodo utilizzato per la pulitura (meccanico o manuale) si raccomanda di verificare attentamente quale detergente vada utilizzato con ciascun metodo. Valori pH consigliati: tra 7,0 e 8,5.

1) Pulitura meccanica

Osservare scrupolosamente le istruzioni d'uso fornite dal produttore della macchina pulitrice. Predisporre gli

strumenti per la pulitura meccanica. Tutti gli strumenti appuntiti e delicati dovrebbero essere puliti manualmente.

Non sovraccaricare i vagli, mettere gli strumenti pesanti sul fondo del vaglio. Se necessario, immergere e risciacquare gli strumenti molto sporchi (strumenti cavi), prima di collocarli nella lavatrice.

2) Pulitura ad ultrasuoni

(fa parte dei metodi di pulitura meccanica)

Prima di inserire uno strumento nel bagno ad ultrasuoni, rimuovere i materiali organici in eccesso. I bagni ad ultrasuoni sono consigliati per le filettatrici o gli strumenti con solchi profondi. L'ultrasuono deve essere seguito da un programma di risciacquo normale.

3) Pulitura manuale

Richiede diverse spazzole in nylon, una canna da soffio ed un ugello da soffio/ un dispositivo ad aria compressa pulito, detergenti e solventi come per la pulitura meccanica.

Per gli additivi di pulitura osservare le indicazioni fornite dal produttore.

Per la pulitura degli strumenti dotati di cannula, passare più volte lo spazzolino di nylon attraverso la cannula eseguendo movimenti rotatori (non utilizzare spazzole in lana d'acciaio/metallo) fino alla completa rimozione dei residui eliminabili con questo metodo.

Soffiare poi con aria compressa nella cannula.

4) Asciugatura

Ogni strumento deve essere asciugato completamente sia internamente che esternamente per evitare la formazione di ruggine o malfunzionamenti.

Indicazioni per la sterilizzazione della strumentazione

Pulire immediatamente ed asciugare bene gli strumenti usati, non utilizzare detergenti e disinfettanti con additivi fortemente acidi o alcalini (ad es. soda, soda caustica o acidi)!

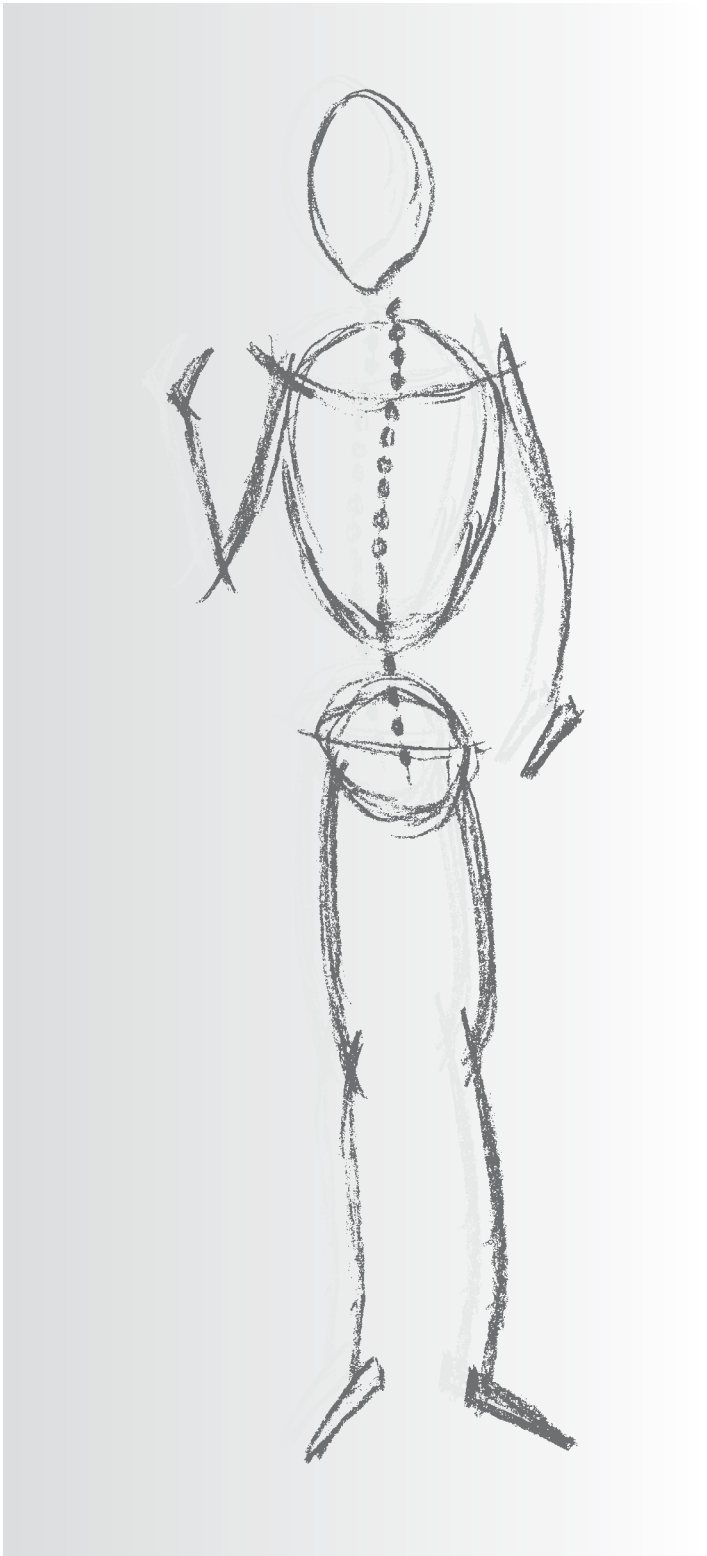
Sterilizzare la strumentazione solo a vapore A 134°!

Prima della sterilizzazione, assicurarsi che gli strumenti siano perfettamente funzionanti ed integri. La sterilizzazione non sostituisce la pulitura.

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DIAGNOSTIK

DIAGNOSTICS

DIAGNÓSTICO

DIAGNOSTICA

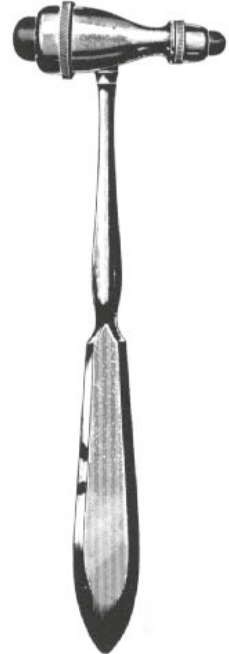
Perkussionshämmer
Percussion Hammers
Martillos de percusión
Martelli da percussione



TAYLOR - USA Mod.
03288-17 17 cm, 6³/₄"
03288-20 20 cm, 8"



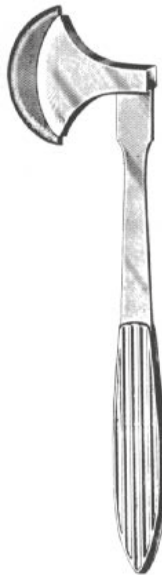
BABINSKY
03292-22 22 cm, 8³/₄"



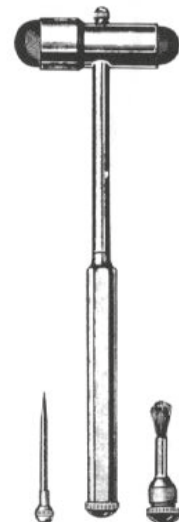
TROEMNER
03294-24 24 cm, 9¹/₂"



DEJERINE
03304-20 20 cm, 8"



BERLINER
03306-17 17 cm, 6³/₄"



BUCK
03308-18 18 cm, 7"

Hämmer
Bone Hammers and Mallets
Martillos y mazos
Martelli



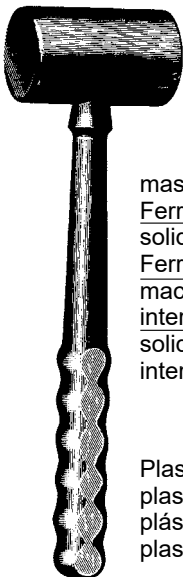
WILLIGER
33691-34
24 cm, 9½"
340 g

Ø 25 mm



33694-03
Ersatzbacken
Nylon Caps
Tapas de repuesto
Battenti di ricambio
33694-01
18,5 cm, 7¼"
135 g

Ø 42 mm



massiv, mit auswechselbaren
Ferrozellbacken
solid, with interchangeable
Ferrozell jaws
macizo, con tapas
intercambiables de Ferrozell
solido, con placche
intercambiabili in Ferrozell

Plastik
plastic
plástico
plastica

33695-40
26 cm, 10¼"
250 g

Ø 40 mm

Ø 30 mm



33699-17
26,5 cm, 10½"
530 g

Hämmer
Bone Hammers and Mallets
Martillos y mazos
Martelli

Ø 30 mm



33700-01-01
Ersatzbacken
Nylon Caps
Tapas de repuesto
Battenti di ricambio

33700-01
24,5 cm, 9¾" 215 g

Ø 30 mm



COTTLE
33700-05
18 cm, 7" 240 g

Ø 40 mm



OMBREDANNE
33700-07
25 cm, 10" 700 g

Ø 35 mm



WAGNER
33709-00
24,5 cm, 9¾" 215 g

komplett mit:

1 Paar Metallbacken 33709-01

1 Paar Kunststoffbacken 33709-02

complete with:

1 pair of metal discs 33709-01

1 pair of plastic discs 33709-02

completo con:

1 par de mandibulas de metal 33709-01

1 par de zapatos de plástico 33709-02

completo di battenti:

1 paio di ganasce di metallo 33709-01

1 paio di dischi di plastica 33709-02

Prüf- und Meßinstrumente, Stimmgabel
 Examination and Measuring Instruments, Tuning Fork
 Instrumentos para exámenes y medición, Diapason
 Strumenti per esaminare e misurare, Diapason



03360-01
 Messbereich bis 150 mm
 measuring range up to 150 mm
 campo de medición hasta 150 mm
 calibre con scala fino a 150 mm



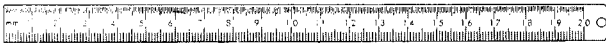
WARTENBERG
 03320-19
 19 cm, 7½"

Kunststoffgehäuse
 In plastic case
 Caja de plástico
 Custodia di plastica



03350-15
 1,8 m

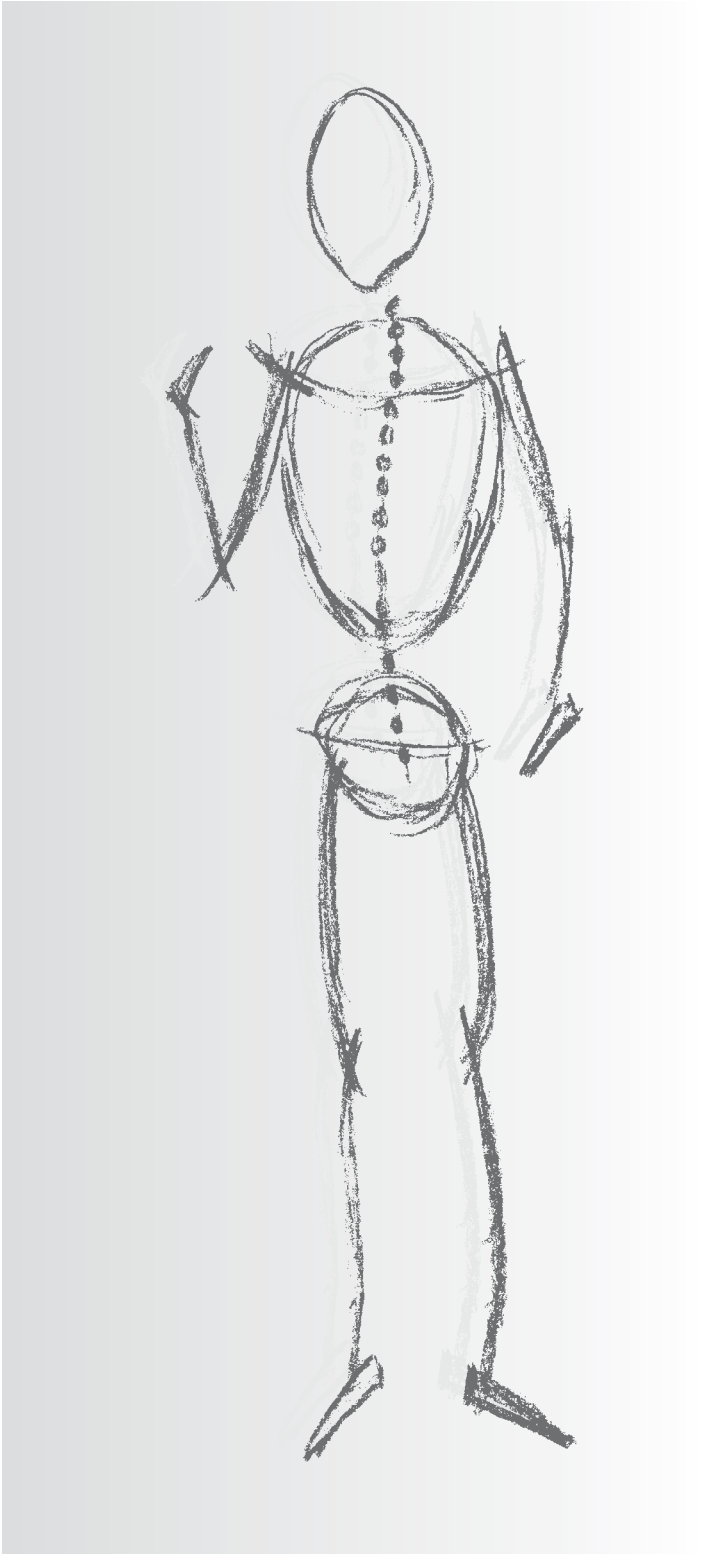
mm & Inch



Metall		
03340-10	10 cm	4"
03340-15	15 cm	6"
03340-20	20 cm	8"
03340-30	30 cm	12"
03340-50	50 cm	20"



45075-00



Reda Instrumente GmbH
Gänsäcker 34 - P.O. Box 131
D-78532 Tuttlingen

SKALPELLE

SCALPELS

BISTURÍES

BISTURI

Skalpell-Griffe
Scalpel Handles
Mangos de bisturios
Manici per lame bisturi

passend zu den Klängen
for blades
para las hojas
per lame bisturi

Ⓐ No. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19



07103-00
Fig. 3

Ⓐ



07103-01
Fig. 3 grad.

Ⓐ



07106-01
14,5 cm 5¾"

Ⓐ

Skalpelli-Griffe
 Scalpel Handles
 Mangos de bisturíes
 Manici per lame bisturi

passend zu den Klängen
 for blades
 para las hojas
 per lame bisturi

Ⓐ No. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19



07107-00
 Fig. 7
 Ⓐ



07107-01
 Fig. 7K
 Ⓐ



07109-10 10,0 cm, 4"
 07109-13 13,0 cm, 5"
 07109-15 15,5 cm, 6"



07161-00



07162-00



07165-00



07167-00

Packung mit 10 Stück
 box of 10
 en cajas de 10 pzas
 confezione di 10

Skalpelli-Griffe
 Scalpel Handles
 Mangos de bisturios
 Manici per lame bisturi



CASPAR



93380-13
 135 mm / 5½"



93380-15
 155 mm / 6"



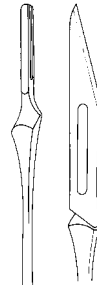
93380-18
 180 mm / 7"



93380-20
 200 mm / 8"



LANDOLT
 93385-21 210 mm / 8¼"
 93385-25 250 mm / 10"



horizontal

LANDOLT
 93390-21 210 mm / 8¼"



Klingenbrecher
Blade Breakers
Rompe-hojas
Rompi lama di rasoio



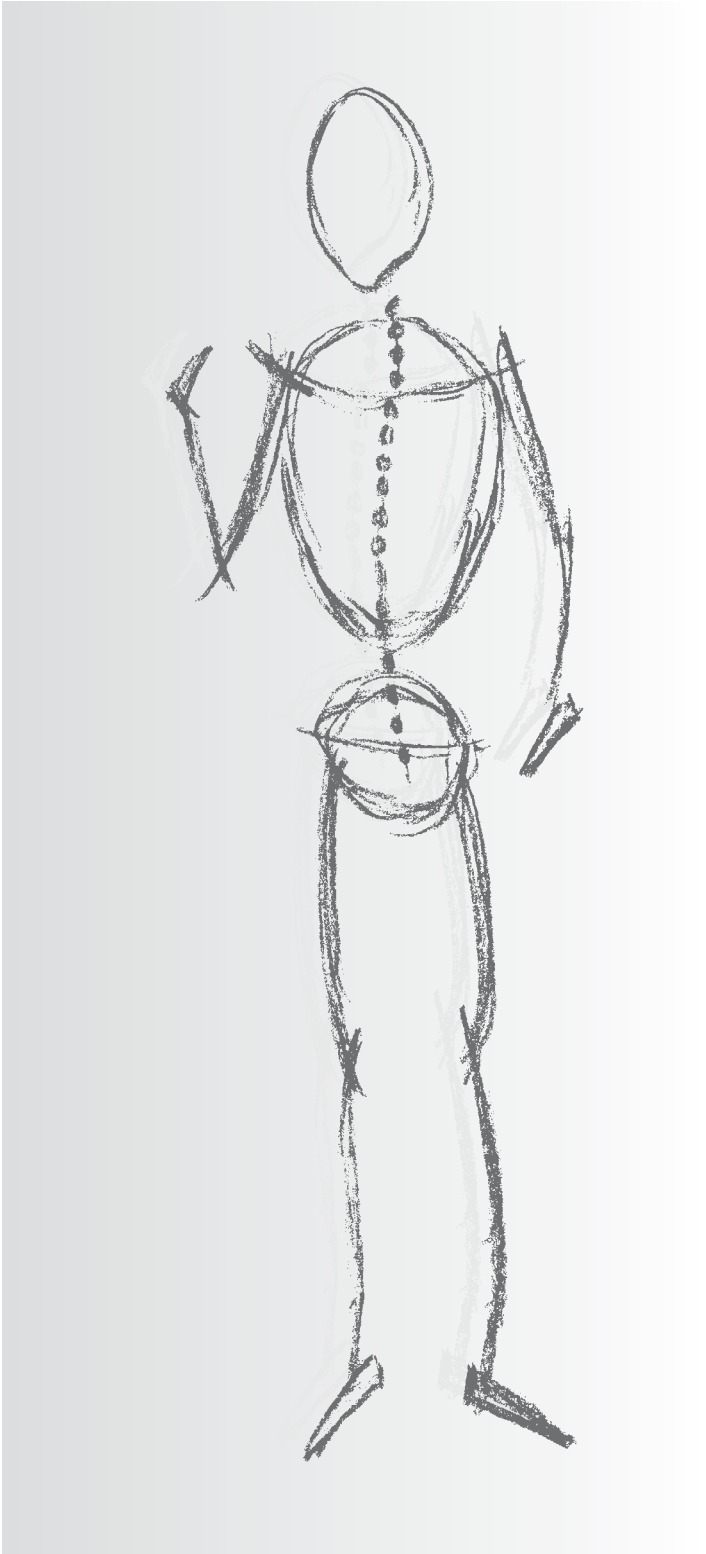
TROUTMAN-CHRIS
07290-09 9 cm, 3½"



REDA
07291-11 11 cm, 4¾"



CASTROVIEJO
07294-13 13 cm, 5½"



Reda Instrumente GmbH
Gänsäcker 34 - P.O. Box 131
D-78532 Tuttlingen

SCHEREN

SCISSORS

TIJERAS

FORBICI

Chirurgische Scheren
 Operating Scissors
 Tijeras para cirugía
 Forbici per chirurgia



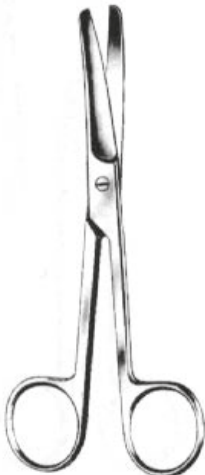
STANDARD —
 09102-13 13,0 cm, 5"
 09102-14 14,5 cm, 5¾"
09104-14 TC
 09102-16 16,5 cm, 6½"
 09102-18 18,5 cm, 7¼"



STANDARD —
 09110-13 13,0 cm, 5"
 09110-14 14,5 cm, 5¾"
09114-14 TC
 09110-16 16,5 cm, 6½"
 09110-18 18,5 cm, 7¼"



STANDARD —
 09120-13 13,0 cm, 5"
 09120-14 14,5 cm, 5¾"
09124-14 TC
 09120-16 16,5 cm, 6½"
 09120-18 18,5 cm, 7¼"



STANDARD —
 09103-13 13,0 cm, 5"
 09103-14 14,5 cm, 5¾"
09105-14 TC
 09103-16 16,5 cm, 6½"
 09103-18 18,5 cm, 7¼"

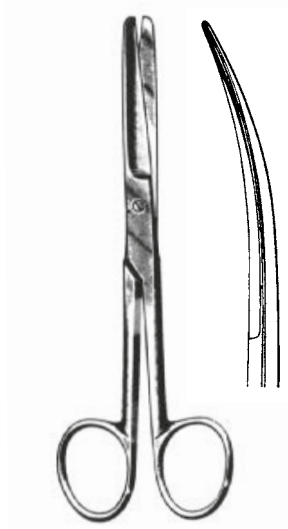


STANDARD —
 09111-13 13,0 cm, 5"
 09111-14 14,5 cm, 5¾"
09115-14 TC
 09111-16 16,5 cm, 6½"
 09111-18 18,5 cm, 7¼"

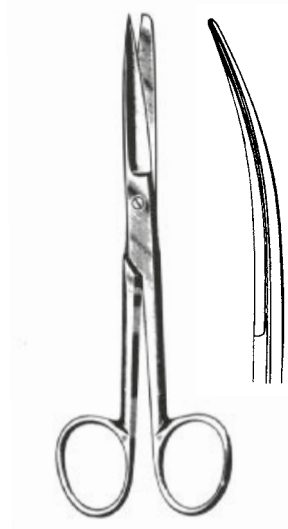


STANDARD —
 09121-13 13,0 cm, 5"
 09121-14 14,5 cm, 5¾"
09125-14 TC
 09121-16 16,5 cm, 6½"
 09121-18 18,5 cm, 7¼"

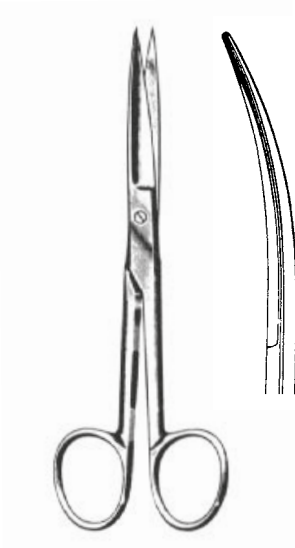
Chirurgische Scheren
Operating Scissors
Tijeras para cirugía
Forbici per chirurgia



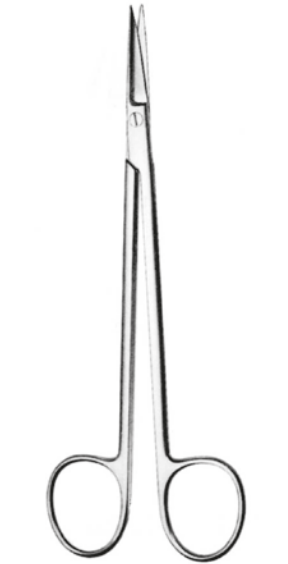
DEAVER
09130-14 14 cm 09131-14
5½"



DEAVER
09140-14 14 cm 09141-14
5½"



DEAVER
09150-14 14 cm 09151-14
5½"



KELLY
09540-16 09541-16
09542-16 TC 09543-16 TC
16 cm, 6¼"

Präparierscheren
Dissecting Scissors
Tijeras de disección
Forbici per dissezione



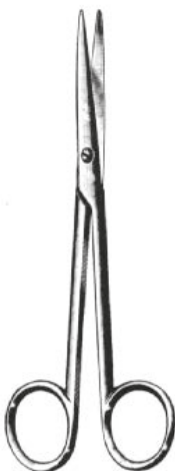
MAYO

09160-14	14,5 cm	09161-14
09164-14 TC	14,5 cm	09165-14 TC
	5¾"	
09160-17	17,0 cm	09161-17
09164-17 TC	17,0 cm	09165-17 TC
	6¾"	
09160-23	23,0 cm	09161-23
09164-23 TC	23,0 cm	09165-23 TC
	9"	



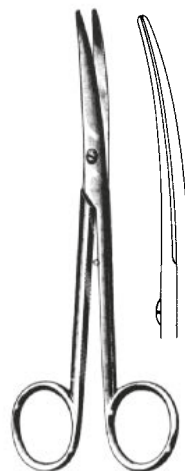
MAYO-STILLE

09170-15	15,0 cm	09171-15
09174-15 TC	15,0 cm	09175-15 TC
	6"	
09170-17	17,0 cm	09171-17
09174-17 TC	17,0 cm	09175-17 TC
	6¾"	
09170-21	21,0 cm	09171-21
09174-21 TC	21,0 cm	09175-21 TC
	8¾"	



LEXER

09190-16
09194-16 TC
16 cm, 6¼"



LEXER

09191-16
09195-16 TC
16 cm, 6¼"

Präparierscheren
Dissecting Scissors
Tijeras de disección
Forbici per dissezione



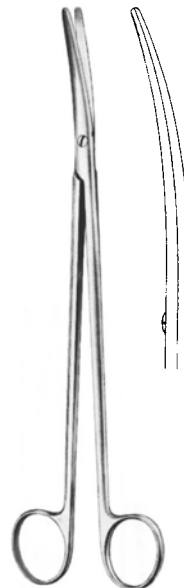
- METZENBAUM**
- 09280-12 **09284-12 TC**
12 cm, 4¾"
 - 09280-15 **09284-15 TC**
15 cm, 6"
 - 09280-18 **09284-18 TC**
18 cm 7"
 - 09280-20 **09284-20 TC**
20 cm 8"
 - 09280-23 **09284-23 TC**
23 cm 9"
 - 09280-25 **09284-25 TC**
25 cm 10"



- METZENBAUM**
- 09281-12 **09285-12 TC**
12 cm, 4¾"
 - 09281-15 **09285-15 TC**
15 cm 6"
 - 09281-18 **09285-18 TC**
18 cm, 7"
 - 09281-20 **09285-20 TC**
20 cm, 8"
 - 09281-23 **09285-23 TC**
23 cm, 9"
 - 09281-25 **09285-25 TC**
25 cm, 10"



- METZENBAUM FINO**
- 09282-15 **09286-15 TC**
15 cm, 6"
 - 09282-18 **09286-18 TC**
18 cm, 7"
 - 09282-20 **09286-20 TC**
20 cm, 8"
 - 09282-23 **09286-23 TC**
23 cm, 9"
 - 09282-25 **09286-25 TC**
25 cm, 10"



- METZENBAUM FINO**
- 09283-15 **09287-15 TC**
15 cm, 6"
 - 09283-18 **09287-18 TC**
18 cm, 7"
 - 09283-20 **09287-20 TC**
20 cm, 8"
 - 09283-23 **09287-23 TC**
23 cm, 9"
 - 09283-25 **09287-25 TC**
25 cm, 10"

Präparierscheren
Dissecting Scissors
Tijeras de disección
Forbici per dissezione



METZENBAUM BLACK



09281-15B
14,5 cm, 5¾"



09281-18B
18 cm, 7"



09281-20B
20 cm, 8"



09283-18B
18 cm, 7"

fein
delicate
fina
delicate



09283-20B
20 cm, 8"

fein
delicate
fina
delicate

Präparierscheren
Dissecting Scissors
Tijeras de disección
Forbici per dissezione



fein
delicate
fina
delicate

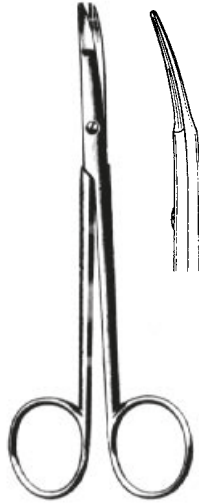
BABY-METZENBAUM BLACK
09283-15B
14,5 cm, 5¾"



fein
delicate
fina
delicate

BLACK
09371-11B
11,5 cm, 4½"

Präparierscheren
Dissecting Scissors
Tijeras de disección
Forbici per dissezione



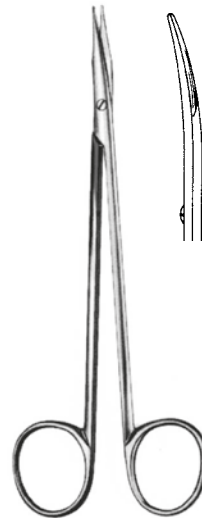
KILNER

- 09310-12 12 cm, 4³/₄" **09314-12 TC**
- 09310-15 15 cm, 6"
- 09312-12 12 cm, 4³/₄"



fein
delicate
fina
delicate

JAMESON WERBER
09322-13 13 cm, 5"



REYNOLDS -
09321-15 15 cm, 6"
09321-18 18 cm, 7"
09325-15 TC 15 cm, 6"

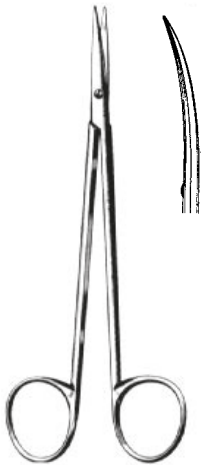
Feine Scheren, Nerv-Präparierscheren
 Delicate Scissor, Nerve Dissecting Scissors
 Tijeras finas, Tijeras de diseccion para nervios
 Forbici delicate per preparazione nervi

Iris - Standard



abgewinkelt
 angled
 angulada
 angolata

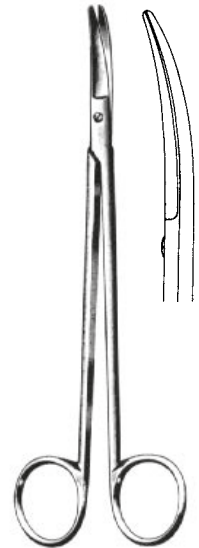
09340-09	9 cm, 3½"	09341-09	09346-11	11 cm, 4¾"
09340-10	10 cm, 4"	09341-10		
09340-11	11 cm, 4¾"	09341-11		
09344-11 TC	11 cm, 4¾"	09345-11 TC		



09582-15 09583-15
 15 cm, 6"

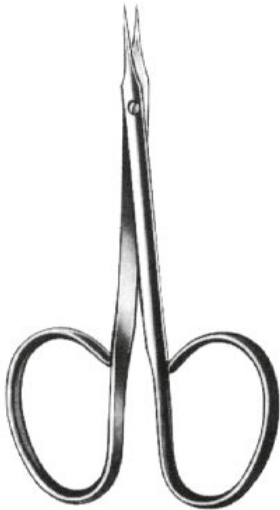


TOENNIS-ADSON
 09610-18
 18 cm, 7"



TOENNIS-ADSON
 09611-18
 18 cm, 7"

Feine Scheren
Delicate Scissors
Tijeras finas
Forbici delicate



— GRADLE —
09350-09 09351-09
9,5 cm, 3³/₄"



— —
09352-09 09353-09
9,5 cm, 3³/₄"



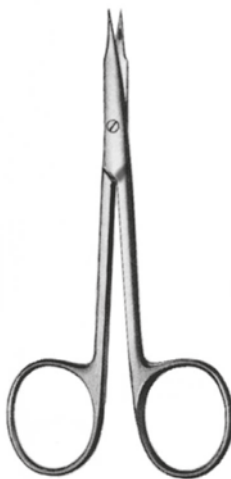
09360-11



09361-11



09362-11

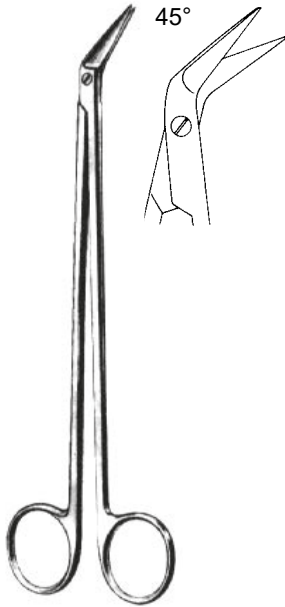


STEVENS
11 cm, 4³/₈"



09363-11

Gefäßscheren
Vascular Scissors
Tijeras vasculares
Forbici vascolari



POTTS-DE MARTEL
09473-21
21 cm, 8¼"



MILLS
09474-22
22 cm, 8¾"



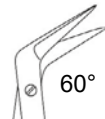
DIETRICH



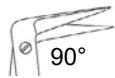
09475-25
09476-25 TC
18 cm, 7"



09475-45
09476-45 TC
18 cm, 7"



09475-60
09476-60 TC
17,5 cm, 6.9"



09475-90
09476-90 TC
17 cm, 6¾"

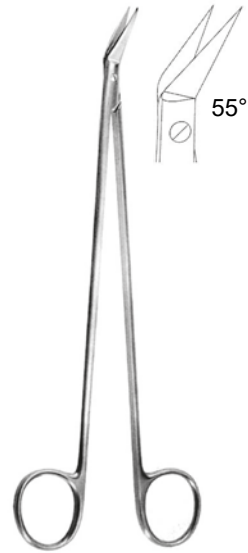


09475-00
09476-00 TC
17 cm, 6¾"

Gefäßscheren
Vascular Scissors
Tijeras vasculares
Forbici vascolari

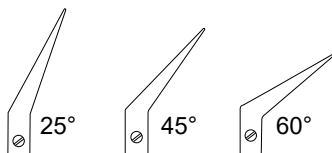


DIETRICH
09477-01
17 cm, 6¾"

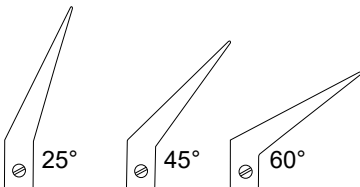


POTTS-SMITH
09480-18
18,5 cm, 7¼"

Scheren mit Hartmetalleinsätzen
Scissors with Tungsten Carbide
Tijeras con carburo de tungsteno
Forbici con carburo di tungsteno



09478-25 09478-45 09478-60
19 cm 19 cm 19 cm
7½" 7½" 7½"

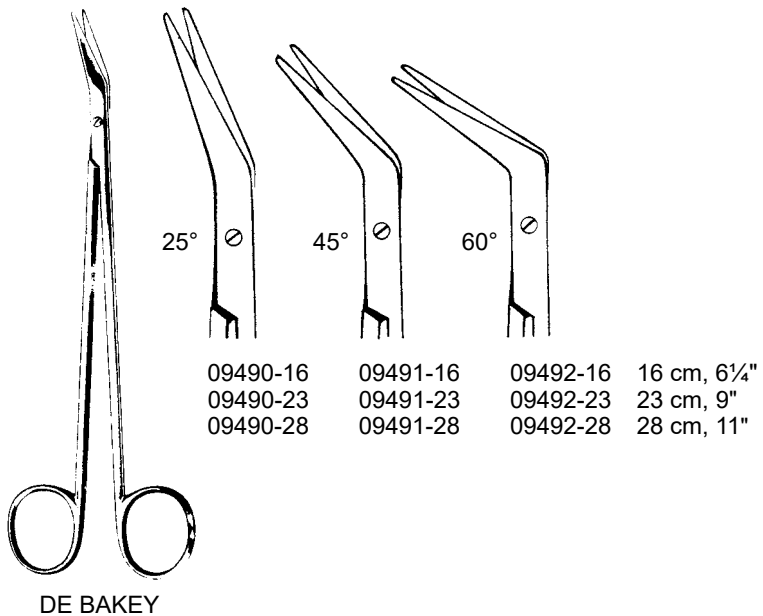
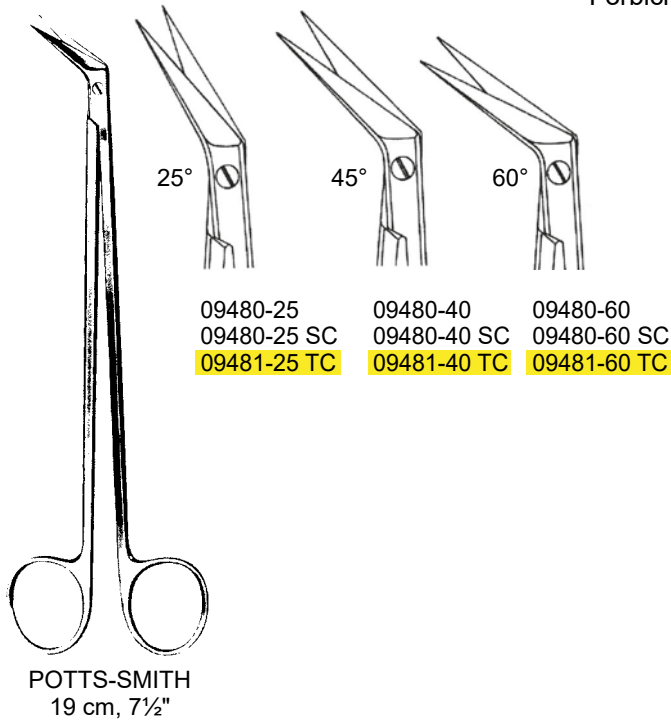


09479-25 09479-45 09479-60
23 cm 23 cm 23 cm
9" 9" 9"

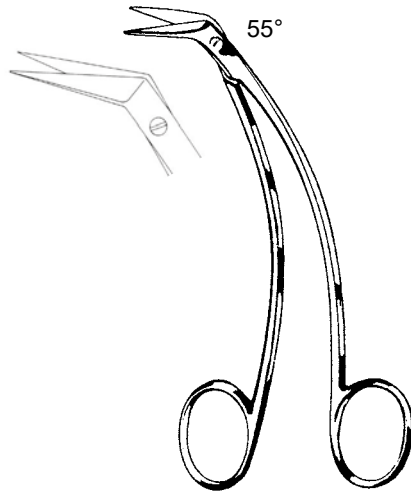


DE BAKHEY
(POTTS-SMITH)

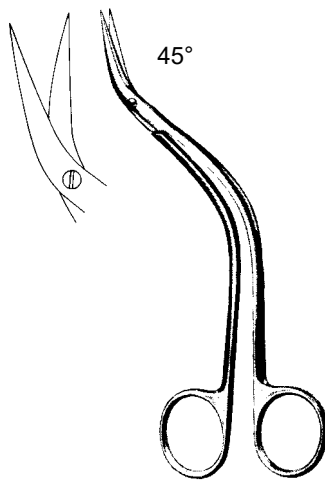
Gefäßscheren
Vascular Scissors
Tijeras vasculares
Forbici vascolari



Gefäßscheren
Vascular Scissors
Tijeras vasculares
Forbici vascolari

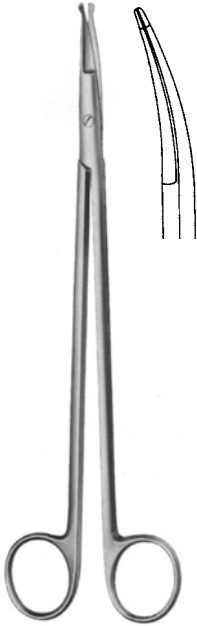


FAVALORO
09496-15 15 cm, 5.9"



DE BAKEY
09497-15 15,5 cm, 6"

Trigeminusscheren
Trigeminal Scissors
Tijera para trigémino
Forbici per trigemino



STRULLY
09601-22
22 cm, 8¾"



DANDY
09617-17
17 cm, 6¾"



gezahnt
toothed
dentada
dentate

OLIVECRONA
09620-23
23 cm, 9"

Duraschere
Dura Scissors
Tijeras para duramadre
Forbici per dura-madre



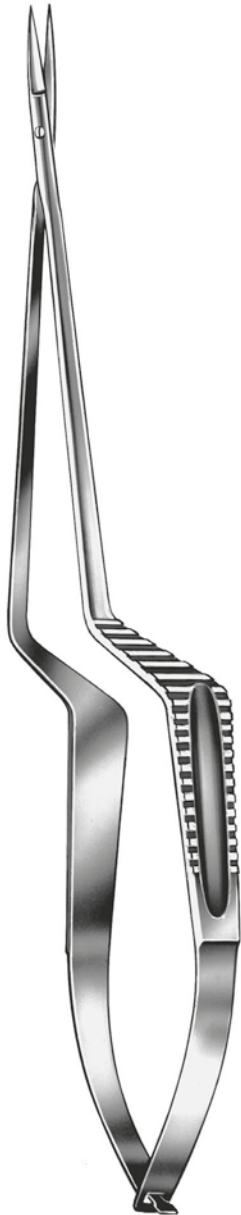
SCHMIEDEN-TAYLOR
09619-17
17 cm, 6¾"

Draht-, Blehschere
Wire and plate scissors
Tijeras para alambre y láminas
Forbici per filo di metallo e lamiera



UNIVERSAL
09831-12 12 cm, 4¾"
09835-12 TC 12 cm, 4¾"

Mikro-Federscheren, bajonettförmig
Micro Scissors (Spring Type), bayonet-shaped
Micro tijeras, forma bayoneta
Micro forbici a baionetta



190 mm
7½"



10120-18



10121-18

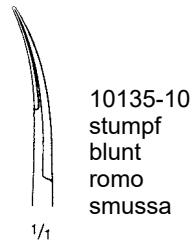
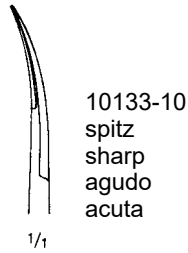


10122-18



10123-18

Mikro-Federscheren
Micro Scissors (Spring Type)
Micro tijeras
Micro forbici



Mikro-Federscheren
Micro Scissors (Spring Type)
Micro tijeras
Micro forbici



10140-08

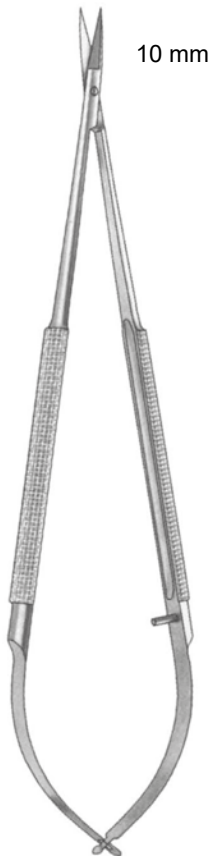


10141-08



10143-08

Mikro Scheren
 Micro Scissors
 Micro tijeras
 Micro Forbice



11 cm
 4³/₈"

10202-11

10203-11

14,5 cm
 5³/₄"

10202-14
10202-14T

10203-14
10203-14T

18 cm
 7"

10202-18
10202-18T

10203-18
10203-18T

21 cm
 8¹/₄"

10202-21
10202-21T

10203-21
10203-21T

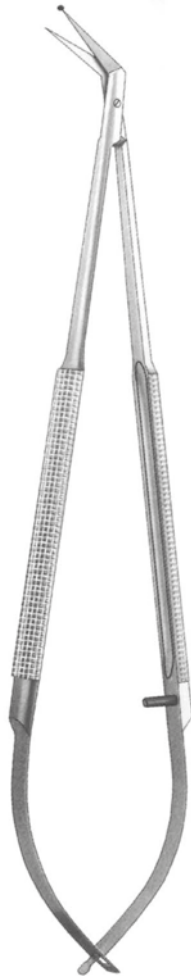
23 cm
 9"

10202-23

10203-23

T = Titan, titanium, titanio, titanio

Mikro Scheren
Micro Scissors
Micro tijeras
Micro Forbice



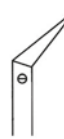
18 cm, 7"



25°

10220-25

10220-25T



45°

10220-45

10220-45T



60°

10220-60

10220-60T



90°

10220-90

10220-90T



125°


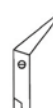



10220-00

10220-00T

T = Titan, titanium, titanio, titanio

Mikro Scheren
 Micro Scissors
 Micro tijeras
 Micro Forbice



	11 cm 4 ³ / ₈ "	14,5 cm 5 ³ / ₄ "	18 cm 7"	21 cm 8 ¹ / ₄ "	23 cm 9"
 25°	10226-11	10226-14	10226-18 10226-18T	10226-21	10226-23
 45°	10227-11	10227-14	10227-18 10227-18T	10227-21	10227-23
 60°	10228-11	10228-14	10228-18 10228-18T	10228-21	10228-23
 90°	10229-11	10229-14	10229-18 10229-18T	10229-21	10229-23
 125°	10230-11	10230-14	10230-18 10230-18T	10230-21	10230-23

T = Titan, titanium, titanio, titanio

Mikro-Federscheren, bajonettförmig
 Micro Scissors (Spring Type), bayonet-shaped
 Micro tijeras, forma bayoneta
 Micro forbici a baionetta



YASARGIL



93094-16 165 mm / 6½"
 93094-20 200 mm / 8"



93095-16 165 mm / 6½"
 93095-20 200 mm / 8"



93097-20 200 mm / 8"



93098-20 200 mm / 8"
 Präparierscheren
 Dissecting Scissors
 Tijeras de disección
 Forbici per dissezione



93099-20 200 mm / 8"
 Präparierscheren
 Dissecting Scissors
 Tijeras de disección
 Forbici per dissezione

Mikro-Federschere, bajonettförmig
 Micro Scissors (Spring Type), bayonet-shaped
 Micro tijeras, forma bayoneta
 Micro forbici a baionetta



93100-22 225 mm / 9"
 93101-22 225 mm / 9"

YASARGIL
 Schneiden gezahnt
 toothed blades
 ramas dentadas
 tagli dentellati



93102-22 225 mm / 9" VANNAS



93103-22 225 mm / 9"
 93103-24 245 mm / 9¾"

YASARGIL



93105-22 225 mm / 9" VANNAS



93107-22 225 mm / 9" YASARGIL



93108-22 225 mm / 9" YASARGIL
 Präparierscheren
 Dissecting Scissors
 Tijeras de disección
 Forbici per dissezione



93109-22 225 mm / 9" YASARGIL
 Präparierscheren
 Dissecting Scissors
 Tijeras de disección
 Forbici per dissezione

Mikro-Federscheren, bajonettförmig
Micro Scissors (Spring Type), bayonet-shaped
Micro tijeras, forma bayoneta
Micro forbici a baionetta



NAGEL



45°

93111-20 200 mm / 8"



45°

93113-20 200 mm / 8"

mit Kopf
with probe-pointed blade
punta abotonada
punta bottonuta



125°

93115-19 190 mm / 7½"

Mikro-Federscheren
 Micro Scissors (Spring Type)
 Micro tijeras
 Micro forbici



93180-12	120 mm / 4 $\frac{3}{4}$ "	
93180-16	160 mm / 6 $\frac{1}{4}$ "	
93182-16	160 mm / 6 $\frac{1}{4}$ "	MILLES
	Schneiden gezahnt	←
	toothed blades	
	ramas dentadas	
	tagli dentellati	
93180-18	185 mm / 7 $\frac{1}{4}$ "	YASARGIL



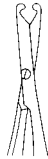
93181-12	120 mm / 4 $\frac{3}{4}$ "	
93181-16	160 mm / 6 $\frac{1}{4}$ "	
93183-16	160 mm / 6 $\frac{1}{4}$ "	MILLES
	Schneiden gezahnt	←
	toothed blades	
	ramas dentadas	
	tagli dentellati	
93181-18	185 mm / 7 $\frac{1}{4}$ "	JACOBSON



93190-12	120 mm / 4 $\frac{3}{4}$ "	VANNAS
93190-16	160 mm / 6 $\frac{1}{4}$ "	



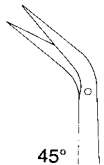
93191-12	120 mm / 4 $\frac{3}{4}$ "	VANNAS
93191-16	160 mm / 6 $\frac{1}{4}$ "	



93192-13	130 mm / 5 $\frac{1}{8}$ "	BIEMER
	Venenschere	
	Vein Scissors	
	Tijera para venas	
	Forbice per vene	



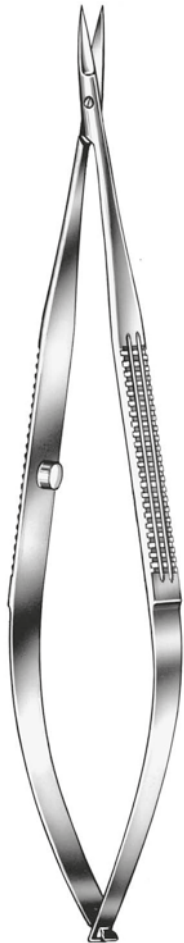
93193-12	120 mm / 4 $\frac{3}{4}$ "	VANNAS
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93195-18	185 mm / 7 $\frac{1}{4}$ "	POTTS-YASARGIL
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45°

Mikro-Federscheren
Micro Scissors (Spring Type)
Micro tijeras
Micro forbici



93210-12	120 mm / 4 ³ / ₄ "	
93210-16	160 mm / 6 ¹ / ₄ "	
93212-16	160 mm / 6 ¹ / ₄ "	MILLES
	Schneiden gezahnt	←
	toothed blades	
	ramas dentadas	
	tagli dentellati	
93210-18	185 mm / 7 ¹ / ₄ "	YASARGIL



93211-12	120 mm / 4 ³ / ₄ "	
93211-16	160 mm / 6 ¹ / ₄ "	
93213-16	160 mm / 6 ¹ / ₄ "	MILLES
	Schneiden gezahnt	←
	toothed blades	
	ramas dentadas	
	tagli dentellati	

93211-18	185 mm / 7 ¹ / ₄ "	JACOBSON
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93216-12	120 mm / 4 ³ / ₄ "	VANNAS
93216-16	160 mm / 6 ¹ / ₄ "	



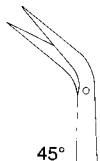
93217-12	120 mm / 4 ³ / ₄ "	VANNAS
93217-16	160 mm / 6 ¹ / ₄ "	



93218-13	130 mm / 5 ¹ / ₈ "	BIEMER
	Venenschere	
	Vein Scissors	
	Tijera para venas	
	Forbice per vene	



93219-12	120 mm / 4 ³ / ₄ "	VANNAS
----------	--	--------



93221-18	185 mm / 7 ¹ / ₄ "	POTTS-YASARGIL
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45°

Mikro-Federscheren
 Micro Scissors (Spring Type)
 Micro tijeras
 Micro forbici



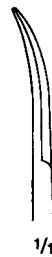
93270-14 145 mm / 5¾"
 93270-18 180 mm / 7"



93270-23 230 mm / 9"



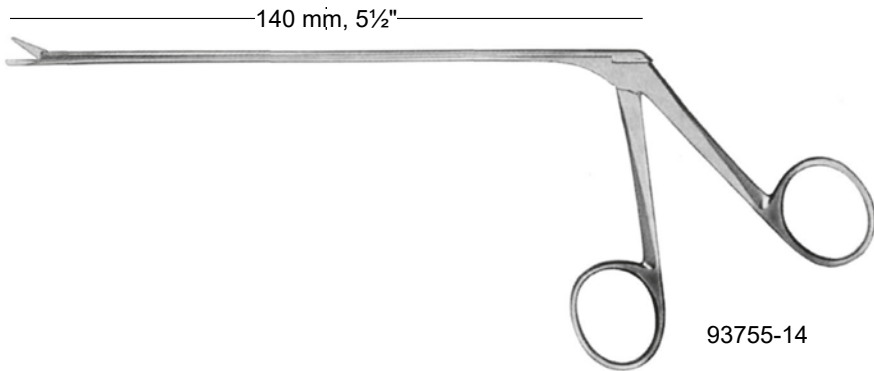
93271-14 145 mm / 5¾"
 93271-18 180 mm / 7"



93273-14 145 mm / 5¾"
 93273-18 180 mm / 7"

Mikro Präparierscheren
 Micro dissecting Scissors
 Micro tijeras de disección
 Micro forbici per dissezione

Tumorschere
Tumor scissors
Tijera para tumores
Forbice per tumori



93755-14

gerade
straight
recta
retta



93756-14

rechts gebogen
curved right
curva hacia la derecha
curva a destra



93757-14

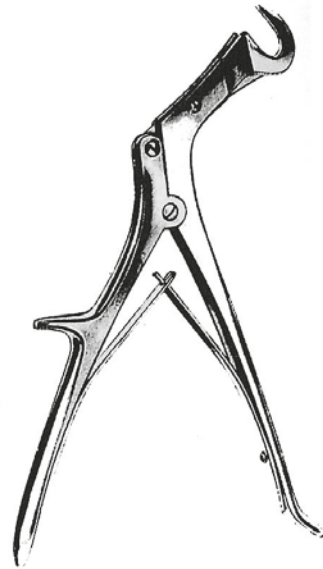
links gebogen
curved left
curva hacia la izquierda
curva a sinistra



Rippenscheren
Rib Shears
Costótomos
Costotomi



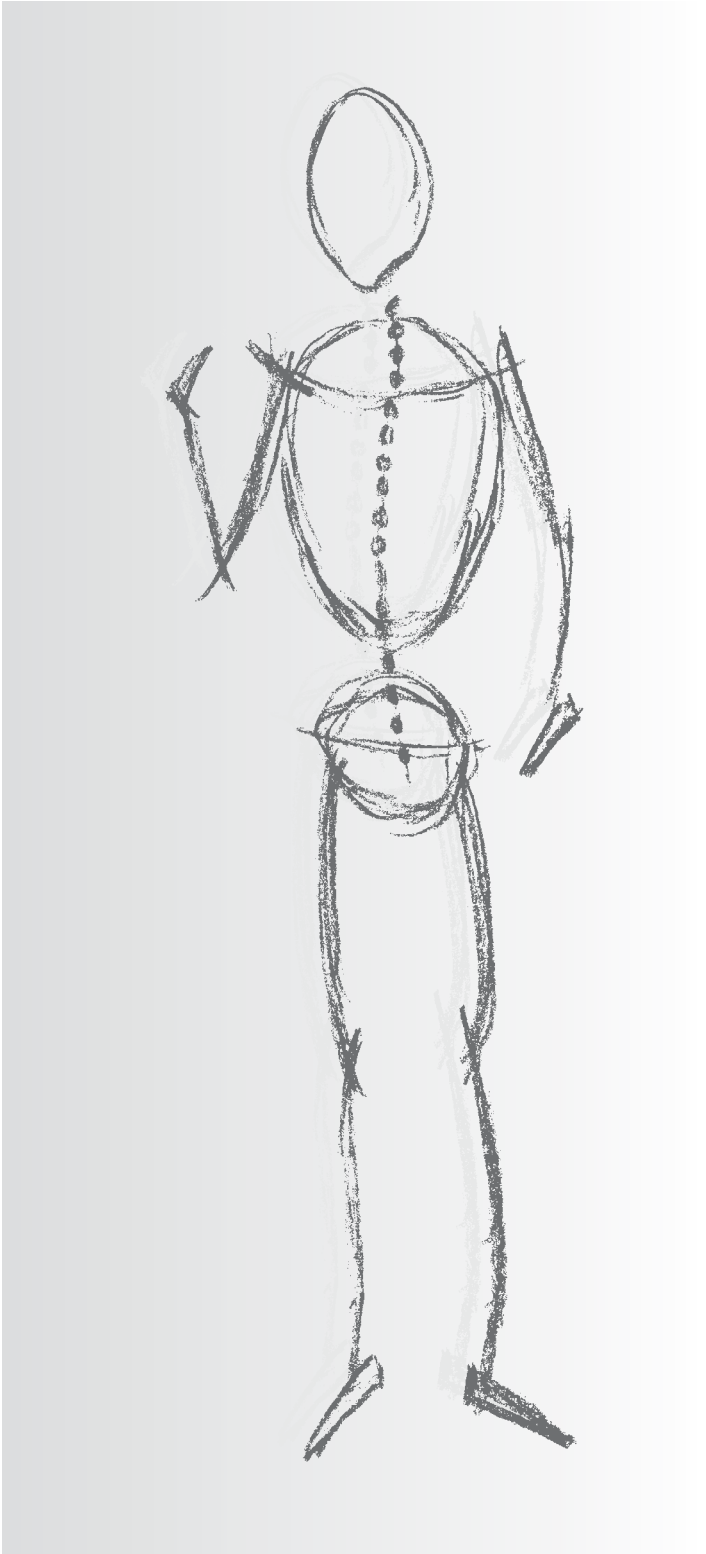
SAUERBRUCH
57131-26
26 cm, 10¼"



GIERTZ-STILLE
57137-27
27 cm, 10½"



SAUERBRUCH-FREY
57141-36
36 cm, 14.2"



Reda Instrumente GmbH
Gänsäcker 34 - P.O. Box 131
D-78532 Tuttlingen

PINZETTEN

FORCEPS

PINZAS

PINZETTE

Anatomische und chirurgische Pinzetten
 Dressing and Tissue Forceps
 Pinzas de disección, sin/con dientes
 Pinze per dissezione, chirurgiche/anatomiche



POTTS-SMITH

- | | | |
|----------|------------|-------------|
| 11112-18 | 18 cm, 7" | 11116-18 TC |
| 11112-21 | 21 cm, 8¼" | 11116-21 TC |
| 11112-25 | 25 cm, 10" | 11116-25 TC |



1x2

POTTS-SMITH

- | | |
|----------|------------|
| 11126-18 | 18 cm, 7" |
| 11126-21 | 21 cm, 8¼" |
| 11126-25 | 25 cm, 10" |

Anatomische und chirurgische Pinzetten
 Dressing and Tissue Forceps
 Pinzas de disección, sin/con dientes
 Pinze per dissezione, chirurgiche/anatomiche



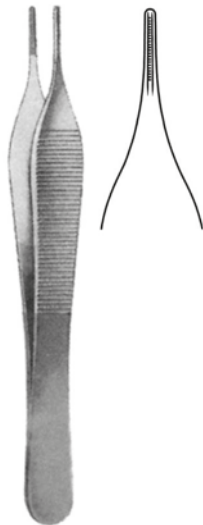
ADSON
 11170-12 12,0 cm, 4¾"
 11170-15 15,0 cm, 6"



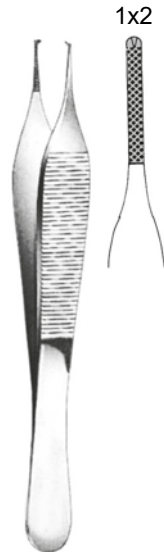
ADSON
 11174-12 TC 12,0 cm, 4¾"
 11174-15 TC 15,0 cm, 6"



ADSON micro
 11176-12 12,0 cm, 4¾"
 11176-15 15,0 cm, 6"



ADSON-DE BAKEY Atrauma
 11177-12
 12,0 cm, 4¾"



ADSON
 11178-12
 12,0 cm, 4¾"

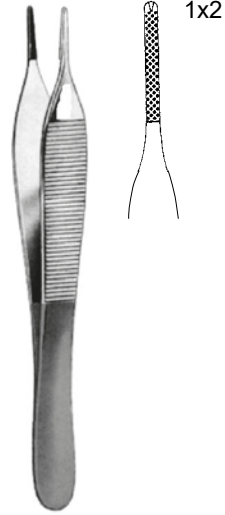


ADSON
 11179-12
 12 cm, 4¾"

Anatomische und chirurgische Pinzetten
 Dressing and Tissue Forceps
 Pinzas de disección, sin/con dientes
 Pinze per dissezione, chirurgiche/anatomiche



ADSON
 11180-12 12,0 cm, 4¾"
 11180-15 15,0 cm, 6"



ADSON
 11181-12 TC 12,0 cm, 4¾"
 11181-15 TC 15,0 cm, 6"



ADSON micro
 11186-12 12,0 cm, 4¾"
 11186-15 15,0 cm, 6"



ADSON
 11187-12
 12 cm, 4¾"



ADSON-BROWN
 11188-12 12,0 cm, 4¾"
 11188-15 15,0 cm, 6"
 11189-12 TC 12,0 cm, 4¾"

Anatomische und chirurgische Pinzetten
 Dressing and Tissue Forceps
 Pinzas de disección, sin/con dientes
 Pinze per dissezione, chirurgiche/anatomiche



9x9

BROWN

- 11189-15 15,0 cm, 6"
- 11189-20 20,0 cm, 8"
- 11189-25 25,0 cm, 10"



1x2

WAUGH

- 11187-18 18 cm, 7"
- 11187-20 20 cm, 8"
- 11187-25 25 cm, 10"
- 11187-30 30 cm, 11¾"



11220-17
 11224-17 TC



11221-17

CUSHING
 17 cm, 6¾"



11222-17
 11225-17 TC

1x2



11223-17

CUSHING
 17 cm, 6¾"

Anatomische und chirurgische Pinzetten
 Dressing and Tissue Forceps
 Pinzas de disección, sin/con dientes
 Pinze per dissezione, chirurgiche/anatomiche



BROPHY
 11231-20
 20,0 cm, 8"



BROPHY
 11233-20
 20,0 cm, 8"



11234-20



11235-20



BROPHY
 20,0 cm, 8"



ADLERKREUTZ
 11236-15 15,0 cm, 6"
 11236-20 20,0 cm, 8"

Anatomische und chirurgische Pinzetten
Dressing and Tissue Forceps
Pinzas de disección, sin/con dientes
Pinze per dissezione, chirurgiche/anatomiche



DUEHRSEN
11237-20
20 cm, 8"

1x2



McINDOE
11257-15
15,0 cm, 6"



McINDOE
11258-15 15,0 cm, 6"
11259-15 TC 15,0 cm, 6"

Anatomische und chirurgische Pinzetten
 Dressing and Tissue Forceps
 Pinzas de disección, sin/con dientes
 Pinze per dissezione, chirurgiche/anatomiche



SEMKEN
 11260-12 12,5 cm, 5"
 11260-15 15,5 cm, 6"
 11261-15 TC 15,5 cm, 6"



1x2

SEMKEN
 11270-12 12,5 cm, 5"
 11270-15 15,5 cm, 6"
 11271-15 TC 15,5 cm, 6"
 11271-18 TC 18,0 cm, 7"



1x2

GILLIES
 11272-15 15,5 cm, 6"
 11273-15 TC 15,5 cm, 6"



15,5 cm, 6"



11274-06
 0,6 mm

11274-08
 0,8 mm

11274-10
 1,0 mm



GERALD
 11302-17 17,5 cm, 6.9"
 11302-23 23,0 cm, 9"
 11304-17 TC 17,0 cm, 6¾"



GERALD
 11303-17
 17,5 cm, 6.9"

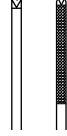
Anatomische und chirurgische Pinzetten
 Dressing and Tissue Forceps
 Pinzas de disección, sin/con dientes
 Pinze per dissezione, chirurgiche/anatomiche



GERALD
 11305-17
 17,5 cm, 6.9"



GERALD
 11310-17 17,5 cm, 6.9"
 11312-17 TC 17,5 cm, 6.9"



1x2



GERALD
 11311-17
 17,5 cm, 6.9"

1x2



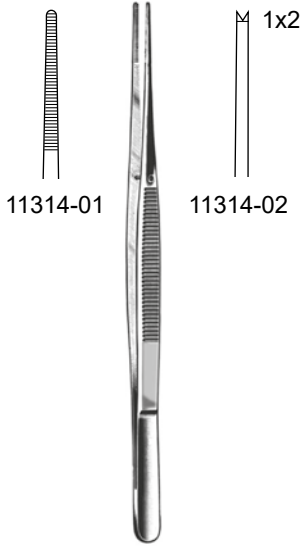
CUSHING-TAYLOR
 11312-18 TC 18,5 cm, 7 1/4"



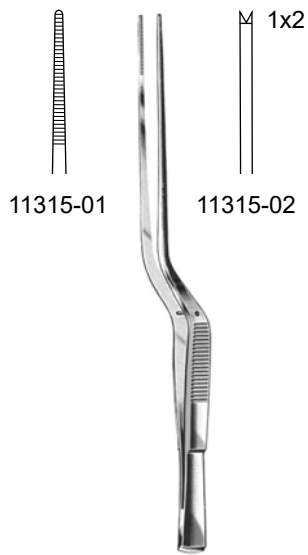
GERALD
 11313-17 17,5 cm, 6.9"

1x2

Anatomische und chirurgische Pinzetten
 Dressing and Tissue Forceps
 Pinzas de disección, sin/con dientes
 Pinze per dissezione, chirurgiche/anatomiche



TAYLOR
 17 cm, 6¾"



TAYLOR
 17 cm, 6¾"



WANGENSTEEN
 11324-23 23 cm, 9"



WANGENSTEEN
 11325-15 TC 15 cm, 6"
 11325-23 TC 23 cm, 9"
 11325-25 TC 25 cm, 10"



MAYO
 11326-23 23 cm, 9"

Uhrmacherpinzette
Jeweler Type Forceps
Pinzas de relojero
Pinze da orologiaio

Fig. 1



11401-01
12 cm, 4³/₄"

Fig. 3



11403-03
12 cm, 4³/₄"

Fig. 3c



11403-04
11 cm, 4³/₈"

Fig. 4



11404-04
11 cm, 4³/₈"

Fig. 5



11405-05
11 cm, 4³/₈"

Fig. 7



11407-07
12 cm, 4³/₄"

Gefäßdilatoren
 Vessel dilators
 Dilatadores vasculares
 Pinze dilatatori vascolari



0,2 mm

0,3 mm

0,2 mm

0,3 mm



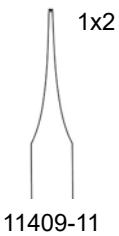
11408-01
 11 cm, 4³/₈"

11408-02
 11 cm, 4³/₈"

11408-03
 13,5 cm, 5¹/₄"

11408-04
 13,5 cm, 5¹/₄"

Juwelierpinzette/Uhrmacherpinzette
 Jeweler's Forceps/Jeweler Type Forceps
 Pinzas para joyero/Pinzas de relojero
 Pinze per gioielliere/Pinze da orologiaio



11,5 cm, 4¹/₂"



0,3 mm



11 cm, 4³/₈"



Mikro Knüpppinzetten
 Micro Suture Tying Forceps
 Micro Pinzas para ligaduras
 Micro Pinze per legature



	0,3 mm	0,8 mm
12 cm, 4¾"	12102-12	
	12102-12D	
15 cm, 6"	12104-15	
	12104-15D	
18 cm, 7"		12108-18
		12108-18D
21 cm, 8¼"		12102-21
		12102-21D
23 cm, 9"		12102-23
		12102-23D



	0,3 mm	0,8 mm
12 cm, 4¾"	12103-12	
	12103-12D	
15 cm, 6"	12103-15	
	12103-15D	
18 cm, 7"		12109-18
		12109-18D
21 cm, 8¼"		12109-21
		12109-21D
23 cm, 9"		12109-23
		12109-23D

1x2



	0,3 mm	0,3 mm
15 cm, 6"	12090-15D	12091-15D
	0,4 mm	0,4 mm
18 cm, 7"	12090-18D	12091-18D
	0,8 mm	0,8 mm
21 cm, 8¼"	12090-21D	12091-21D
23 cm, 9"	12090-23D	12091-23D

1x2



D = mit diamantiertem Maul
 with diamond jaw
 con boca de diamante
 con morso diamantato

Mikro Knüpfpinzetten
Micro Suture Tying Forceps
Micro Pinzas para ligaduras
Micro Pinze per legature



LAZAR



93340-15 155 mm / 6"
Spitzen 0,5 mm
tips 0,5 mm
puntas de 0,5 mm
punte 0,5 mm



93342-15 155 mm / 6"
Spitzen 0,8 mm
tips 0,8 mm
puntas de 0,8 mm
punte 0,8 mm



93342-18 185 mm / 7¼"
Spitzen 0,5 mm
tips 0,5 mm
puntas de 0,5 mm
punte 0,5 mm

Mikro Knüpfpinzetten
 Micro Suture Tying Forceps
 Micro Pinzas para ligaduras
 Micro Pinze per legature



WISE

0,3 mm

93350-12
 120 mm / 4¾"



0,3 mm

93350-13
 135 mm / 5¼"



0,3 mm

93351-13
 135 mm / 5¼"



1x2



93360-09
 95 mm
 3¾"

0,2 mm

93360-09
 95 mm / 3¾"



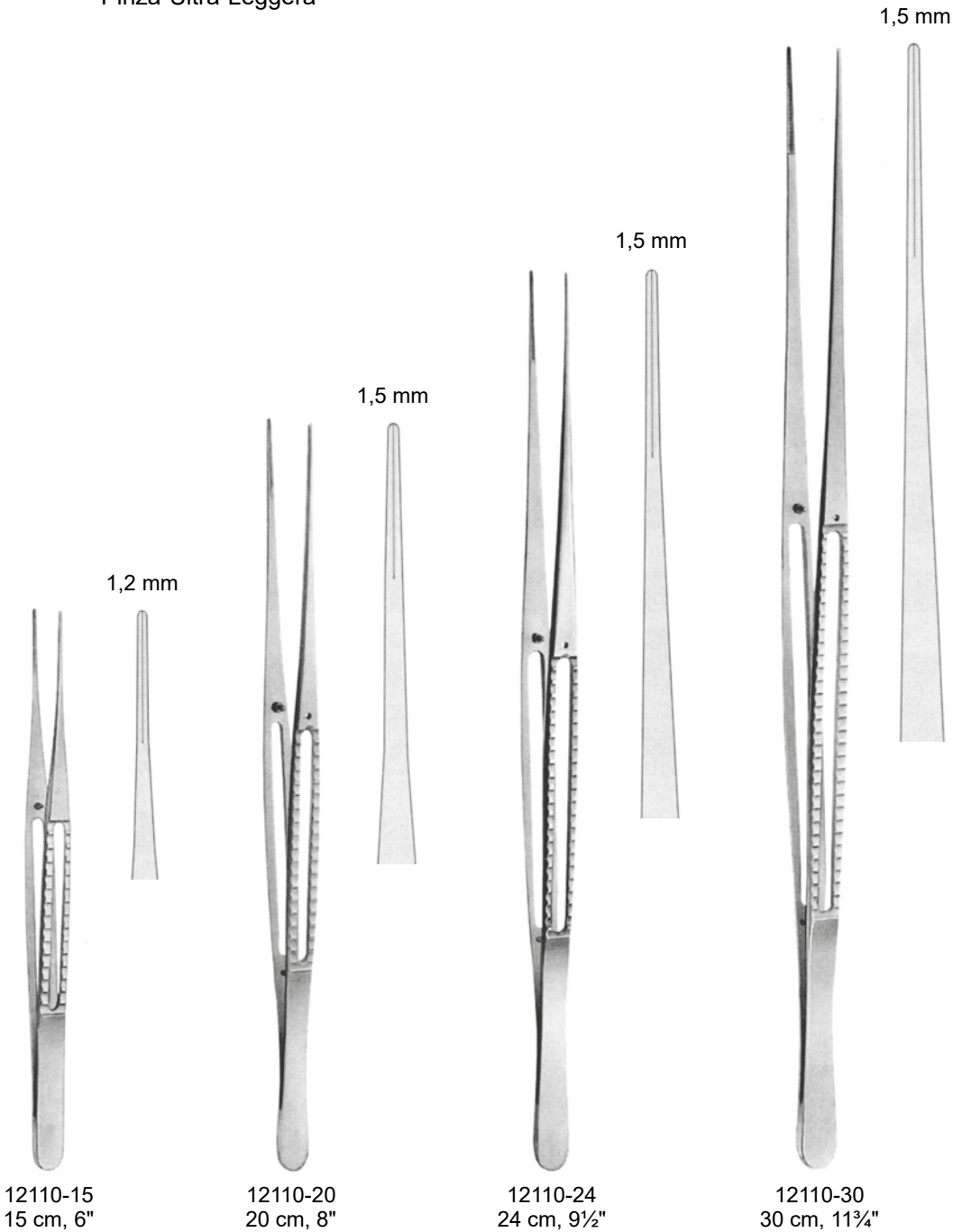
0,8 mm

93370-14
 140 mm / 5½"

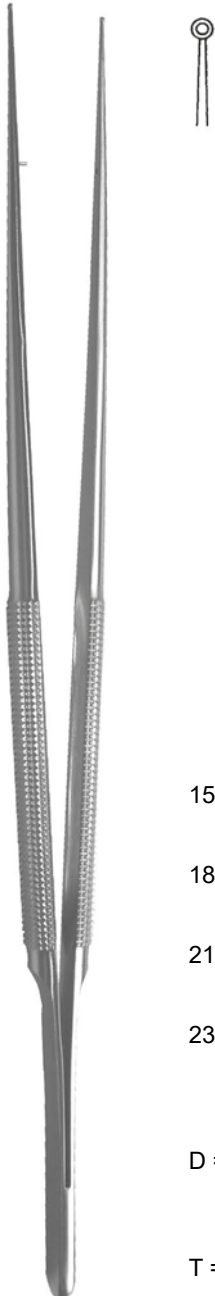


93370-18
 180 mm / 7" AUSTIN

Ultra-Light-Pinzetten
Ultra-Light-Forceps
Pinzas-Ultra-Ligeras
Pinza-Ultra-Leggera



Mikro Ring Pinzetten
 Micro Ring Forceps
 Micro Pinzas
 Micro Pinza



	Ø 1 mm x 0,5 mm	Ø 2 mm x 1 mm
15 cm, 6"	12112-15D 12112-15T	12114-15D 12114-15T
18 cm, 7"	12112-18D 12112-18T	12114-18D 12114-18T
21 cm, 8¼"	12112-21D 12112-21T	12114-21D 12114-21T
23 cm, 9"	12112-23D 12112-23T	12114-23D 12114-23T

D = mit diamantiertem Maul
 with diamond jaw
 con boca de diamante
 con morso diamantato

T = Titan, titanium, titanio, titanio

Atrauma Mikro Pinzetten
 Atrauma Micro Forceps
 Micro Pinzas Atraumáticas
 Micro Pinza Atraumatica



	1,2 mm	2,0 mm
15 cm, 6"	12115-15 12115-15T	12116-15
18 cm, 7"	12115-18 12115-18T	12116-18
21 cm, 8¼"	12115-21 12115-21T	12116-21
23 cm, 9"	12115-23 12115-23T	12116-23

T = Titan, titanium, titanio, titanio

DE BAKEY

TC Atrauma Pinzetten
TC Atrauma Forceps
Pinzas Atraumáticas con TC
Pinza Atraumatica TC



	1,2 mm	2,0 mm
18 cm, 7"	12117-18 TC	12118-18 TC
21 cm, 8¼"	12117-21 TC	12118-21 TC
23 cm, 9"	12117-23 TC	12118-23 TC

DE BAKEY TC

Atraumatische Pinzetten
 Atraumatic Tissue Forceps
 Pinzas Atraumáticas
 Pinze Atraumatiche



1 mm

DE BAKEY
 12302-16 16 cm, 6¼"
 12302-20 20 cm, 8"
 12302-24 24 cm, 9½"



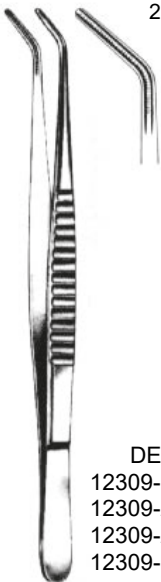
1,5 mm

DE BAKEY
 12306-16 16 cm, 6¼"
 12306-20 20 cm, 8"
 12306-24 24 cm, 9½"
 12306-30 30 cm, 11¼"



2,0 mm

DE BAKEY
 12308-16 16 cm, 6¼"
 12308-20 20 cm, 8"
 12308-24 24 cm, 9½"
 12308-30 30 cm, 11¼"



2,0 mm

DE BAKEY
 12309-16 16 cm, 6¼"
 12309-20 20 cm, 8"
 12309-24 24 cm, 9½"
 12309-30 30 cm, 11¼"



2,7 mm

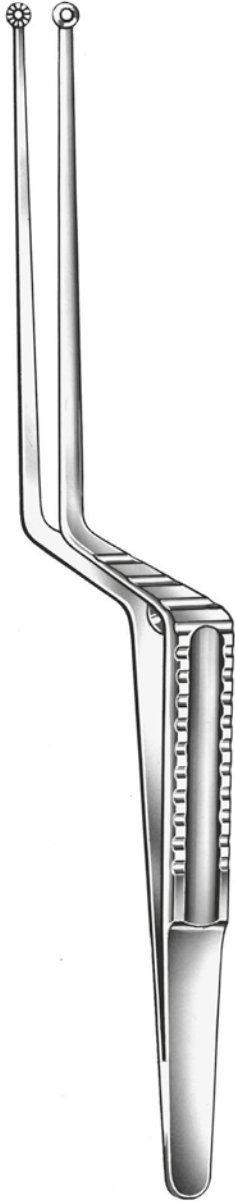
DE BAKEY
 12304-16 16 cm, 6¼"
 12304-20 20 cm, 8"
 12304-24 24 cm, 9½"
 12304-30 30 cm, 11¼"



3,5 mm

DE BAKEY
 12310-16 16 cm, 6¼"
 12310-20 20 cm, 8"
 12310-24 24 cm, 9½"
 12310-30 30 cm, 11¼"

Pinzetten zum Fassen von Gewebe, Tumoren
 Forceps for grasping tissue, tumors
 Pinzas para coger tejidos y tumores
 Pinze per afferrare tessuti e tumori



Ø 3 mm

12295-22 200 mm / 8" YASARGIL

Maul flach, gezahnt
 flat jaw, serrated
 boca plana, dentada
 morso piatto, striato



Ø 5 mm

12297-22 200 mm / 8" HUNT

Maul flach, gezahnt
 flat jaw, serrated
 boca plana, dentada
 morso piatto, striato



12300-18 185 mm / 7¼"

feine Spitzen
 fine tips
 puntas finas
 punte acute



12302-18 185 mm / 7¼"

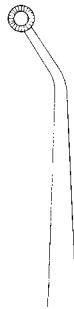
breite Spitzen
 broad tips
 puntas anchas
 punte smusse



12303-18 185 mm / 7¼"

breite Spitzen
 broad tips
 puntas anchas
 punte smusse

Pinzetten zum Fassen von Gewebe, Tumoren
Forceps for grasping tissue, tumors
Pinzas para coger tejidos y tumores
Pinze per afferrare tessuti e tumori



Ø 5 mm

Maul flach, gezahnt
flat jaw, serrated
boca plana, dentada
morso piatto, striato

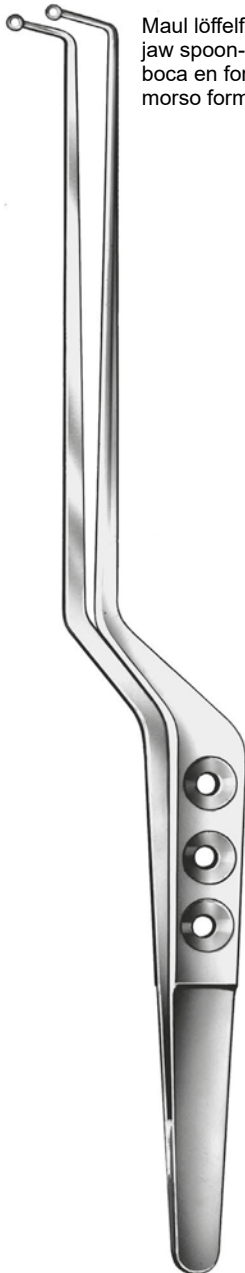
HUNT
12305-20
200 mm
8"

Pinzetten zum Fassen von Gewebe, Tumoren
 Forceps for grasping tissue, tumors
 Pinzas para coger tejidos y tumores
 Pinze per afferrare tessuti e tumori

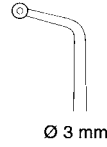


	93300-22 220 mm / 8¾" YASARGIL Ø 3 mm 93300-24 240 mm / 9½" YASARGIL-SAMII	
	Maul löffelförmig jaw spoon-shaped boca en forma de cucharilla morso forma cucchiaio liscio	
		93302-22 220 mm / 8¾" YASARGIL Ø 5 mm 93302-24 240 mm / 9½" YASARGIL-SAMII
		Maul löffelförmig jaw spoon-shaped boca en forma de cucharilla morso forma cucchiaio liscio
		93304-24 240 mm / 9½" YASARGIL-SAMII
		Maul löffelförmig jaw spoon-shaped boca en forma de cucharilla morso forma cucchiaio liscio
		93306-22 220 mm / 8¾" YASARGIL
		Maul flach, gezahnt flat jaw, serrated boca plana, dentada morso piatto, striato
	93308-22 220 mm / 8¾" YASARGIL	
	Maul flach, gezahnt flat jaw, serrated boca plana, dentada morso piatto, striato	
	93310-22 220 mm / 8¾" HEIFETZ	
	Maul kürettenförmig curette jaw, toothed boca en forma de cureta, estriada morso forma curetta, striato	
	93312-22 220 mm / 8¾" HEIFETZ	
	Maul kürettenförmig curette jaw, toothed boca en forma de cureta, estriada morso forma curetta, striato	

Pinzetten zum Fassen von Gewebe, Tumoren
Forceps for grasping tissue, tumors
Pinzas para coger tejidos y tumores
Pinze per afferrare tessuti e tumori

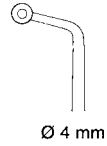


Maul löffelförmig
jaw spoon-shaped
boca en forma de cucharilla
morso forma cucchiaino liscio



93321-23

Ø 3 mm



93323-23

Ø 4 mm



93325-23

Ø 5 mm



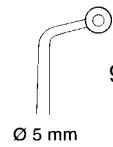
93327-23

Ø 3 mm



93329-23

Ø 4 mm



93331-23

Ø 5 mm

SAMII
230 mm, 9"

Pinzette, bajonettförmig
 Forceps, bayonet-shaped
 Pinzas, forma bayoneta
 Pinze, forma di baionetta



LUCAE
 45206-14 14 cm, 5½"



LUCAE
 45206-16 16 cm, 6¼"



COTTLE
 45208-14 14 cm, 5½"



JANSEN-GRUENWALD
 47154-20 20 cm, 8"



JANSEN
 47155-20 20 cm, 8"

Mikro Pinzetten, bajonettförmig
 Micro Forceps, bayonet-shaped
 Micro Pinzas, forma bayoneta
 Micro Pinze, forma di baionetta



YASARGIL



- 93290-16 160 mm / 6¼"
- 93290-18 180 mm / 7"
- 93290-20 200 mm / 8"
- 93290-22 220 mm / 8¾"
- 93290-24 240 mm / 9½"

Spitzen 0,6 mm
 tips 0,6 mm
 puntas de 0,6 mm
 punte 0,6 mm



- 93292-16 160 mm / 6¼"
- 93292-18 180 mm / 7"
- 93292-20 200 mm / 8"
- 93292-22 220 mm / 8¾"
- 93292-24 240 mm / 9½"

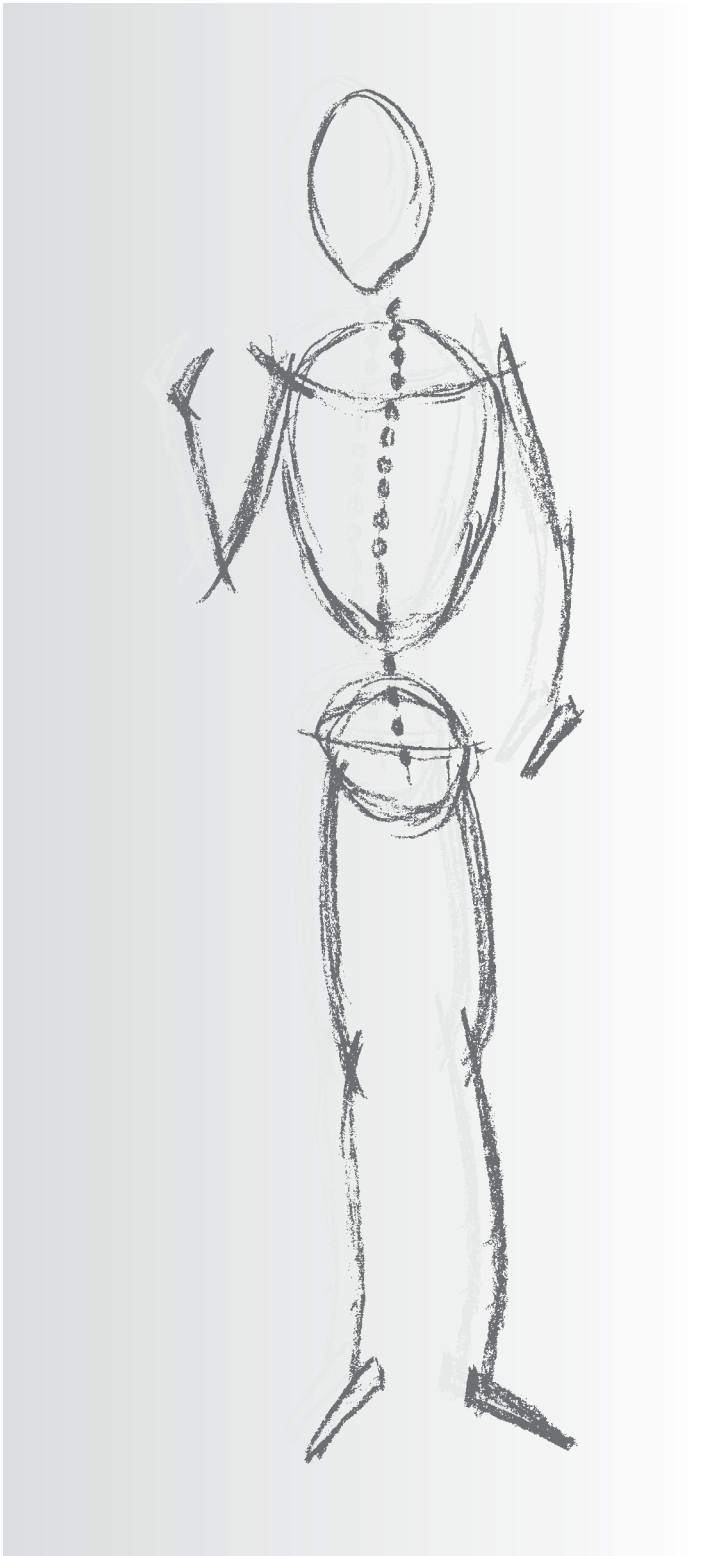
Spitzen 0,9 mm
 tips 0,9 mm
 puntas de 0,9 mm
 punte 0,9 mm

1.5 mm



- 93294-18 180 mm / 7"

1 x 2 Zähne
 1 x 2 teeth
 1 x 2 dientes
 1 x 2 denti



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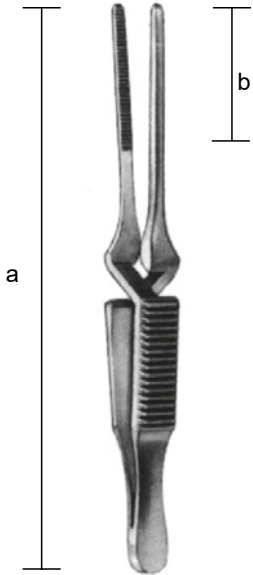
KLEMMEN

CLAMPS

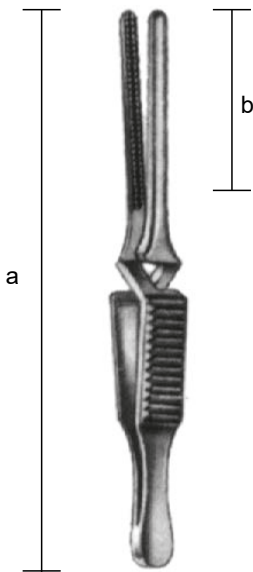
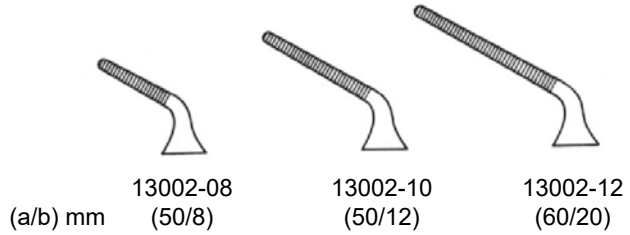
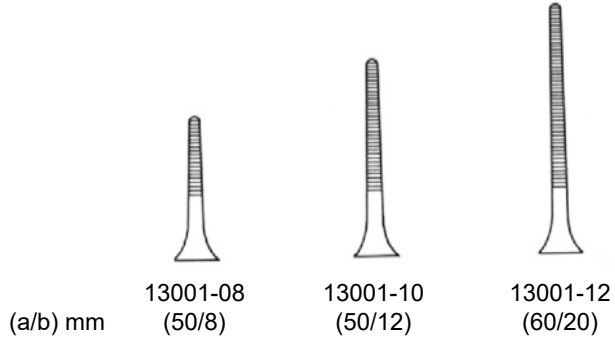
PINZAS

PINZE

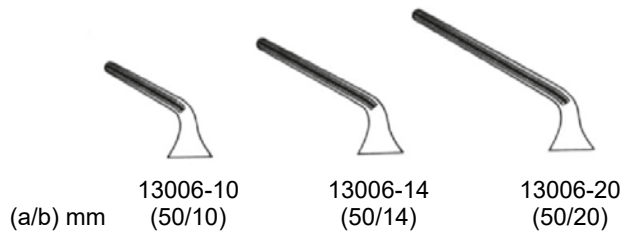
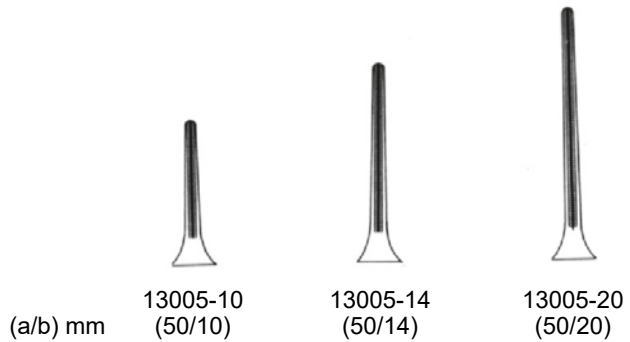
Mini-Bulldogklemmen
Mini Bulldog Clamps
Clamps Bulldog Mini
Pinze Bulldog Mini



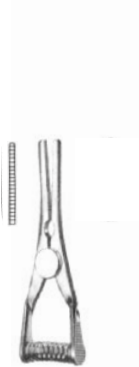
DIETHRICH



DE BAKEY-DIETHRICH

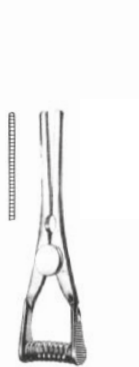


Titan-Atrauma-Bulldogklemmen
 Titanium Atrauma Bulldog Clamps
 Titan Clamps Atrauma Bulldog
 Titan Pinze Atrauma Bulldog



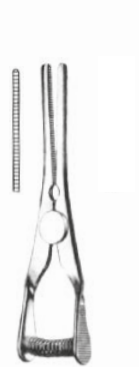
3 cm, 1.2"

Vene **13010-30**
 Arterie **13011-30**



3,5 cm, 1.4"

13010-35
13011-35



4 cm, 1½"

13010-40
13011-40



5 cm, 2"

13010-50
13011-50



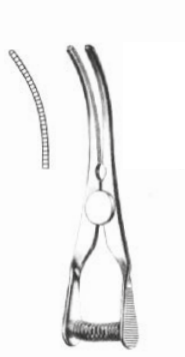
3 cm, 1.2"

Vena **13012-30**
 Arteria **13013-30**



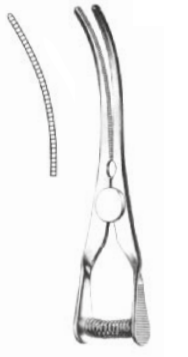
3,5 cm, 1.4"

13012-35
13013-35



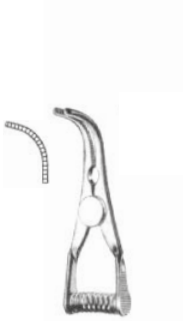
4 cm, 1½"

13012-40
13013-40



5 cm, 2"

13012-50
13013-50



3 cm, 1.2"

Vene **13014-30**
 Arterie **13015-30**



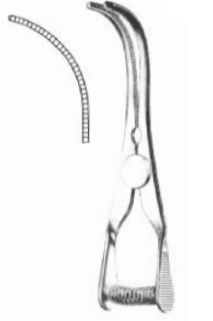
3,5 cm, 1.4"

13014-35
13015-35



4 cm, 1½"

13014-40
13015-40



5 cm, 2"

13014-50
13015-50

Atrauma-Bulldogklemmen
Atrauma-Bulldog Clamps
Clamps Atrauma Bulldog
Pinze Atrauma Bulldog



13090-40
40 mm / 1½"

13090-45
45 mm / 1¾"

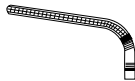
13090-50
50 mm / 2"



13091-40
40 mm / 1½"

13091-45
45 mm / 1¾"

13091-50
50 mm / 2"



GLOVER
13098-06
57 mm
2⅜"

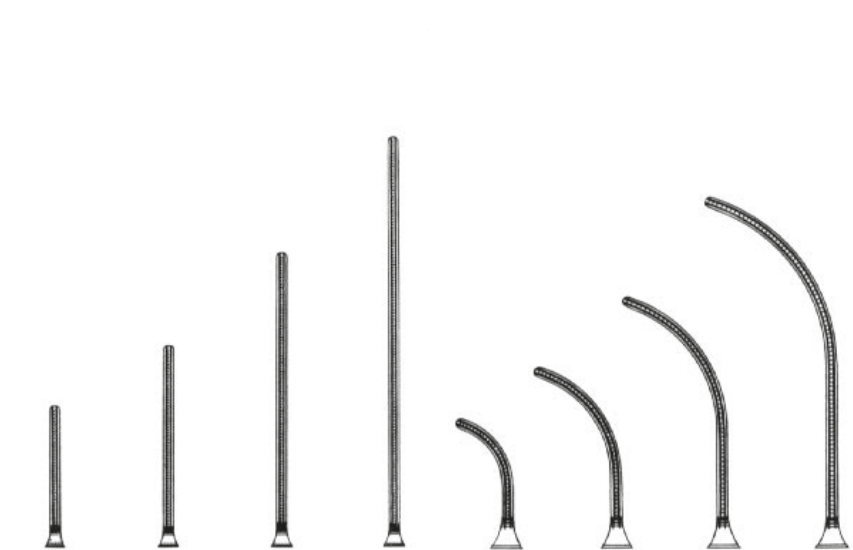


DE BAKEY
13099-07
73 mm
2¾"

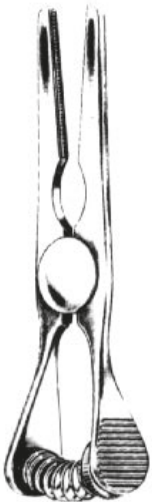
Atrauma-Bulldogklemmen
 Atrauma Bulldog Clamps
 Clamps Atrauma Bulldog
 Pinze Atrauma Bulldog



DE BAKEY



13092-07	13092-08	13092-10	13092-12	13093-07	13093-08	13093-10	13093-12
7,5 cm	8,5 cm	10,5 cm	12 cm	7 cm	8 cm	10 cm	11,5 cm
3"	3.4"	4"	4¾"	2¾"	8⅝"	4"	4½"

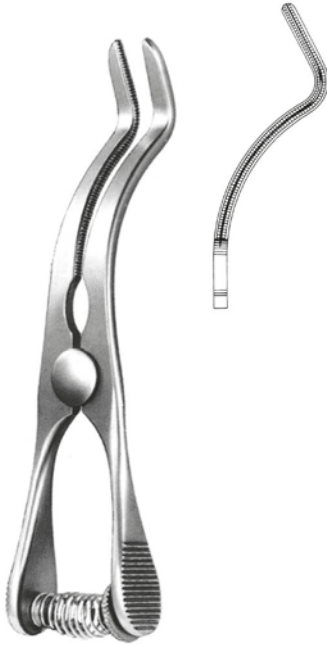


GLOVER

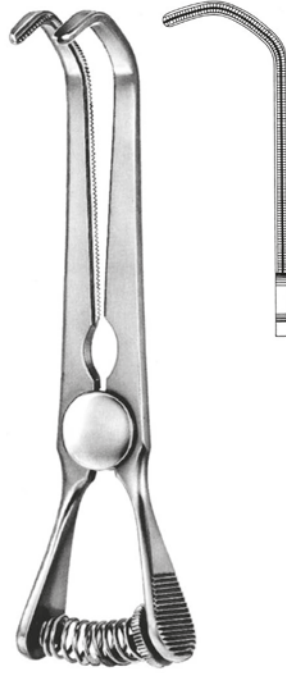


13096-06	13096-07	13096-09	13096-11	13097-06	13097-07	13097-09	13097-11
6 cm	7 cm	9 cm	11 cm	5,5 cm	6,5 cm	8,5 cm	10,5 cm
2¼"	2¾"	3½"	4¾"	2"	2½"	3¼"	4"

Atrauma-Bulldogklemmen
Atrauma-Bulldog Clamps
Clamps Atrauma Bulldog
Pinze Atrauma Bulldog



DE BAKEY
13094-09
9 cm, 3½"



DE BAKEY
13095-10
10 cm, 4"



3 cm, 1.2"

Mauillänge
Jaw length
Largo de la boca
Lunghezza del morso

DE BAKEY-HESS
13113-03

Gefäßklemmen, Bulldogklemmen, Arterienklemmen
 Bulldog Clamps, Hemostatic Forceps
 Pinzas serra-finas, Pinzas hemostáticas
 Pinze serrafina, Pinze emostatiche



DIEFFENBACH
 13102-04 3,5 cm, 1.4"
 13102-05 5,5 cm, 2.2"



gerade
 straight
 recta
 rette

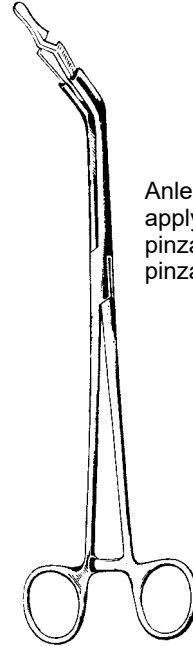
gebogen
 curved
 curva
 curve

JOHNS-HOPKINS

13110-50	5,0 cm, 2"	13111-50
13110-55	5,5 cm, 2.2"	13111-55
13110-65	6,5 cm, 2.6"	13111-65
13110-70	7,0 cm, 2¾"	13111-70
13110-75	7,5 cm, 3"	13111-75
13110-90	9,0 cm, 3½"	13111-90

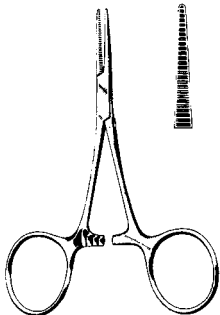


DIEFFENBACH
 13103-04 3,5 cm, 1.4"
 13103-05 5,5 cm, 2.2"

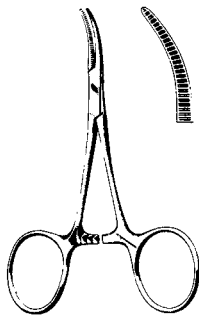


Anlegezange
 applying Forceps
 pinza aplicadora
 pinza applicatrice

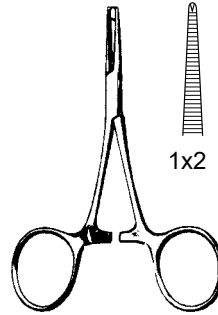
13115-00
 23 cm, 9"



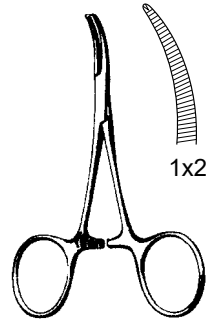
HARTMANN
 13210-10
 10 cm, 4"



HARTMANN
 13211-10
 10 cm, 4"



HARTMANN
 13212-10
 10 cm, 4"

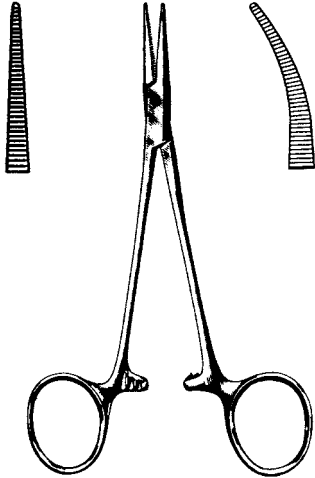


HARTMANN
 13213-10
 10 cm, 4"

Micro-HARTMANN
 13214-10
 10 cm, 4"

Micro-HARTMANN
 13215-10
 10 cm, 4"

Arterienklemmen
 Hemostatic Forceps
 Pinzas hemostáticas
 Pinze emostatiche



HALSTED-MOSQUITO

TITAN

13224-12

13220-12 12,5 cm, 5"

13220-14 14,0 cm, 5½"

13220-18 18,0 cm, 7"

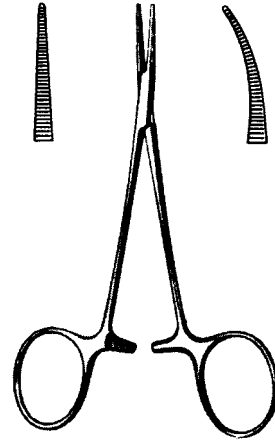
TITAN

13225-12

13221-12

13221-14

13221-18

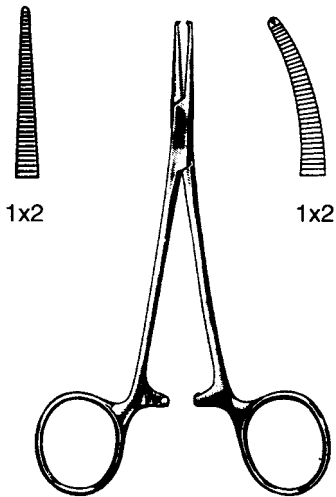


HALSTED-MOSQUITO micro

13222-12 12,5 cm, 5" 13223-12

JACOBSON micro

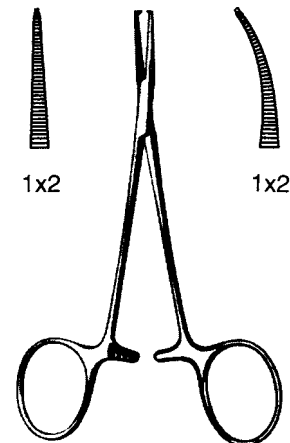
13226-12 12,5 cm, 5" 13227-12



HALSTED-MOSQUITO

13230-12 12,5 cm, 5" 13231-12

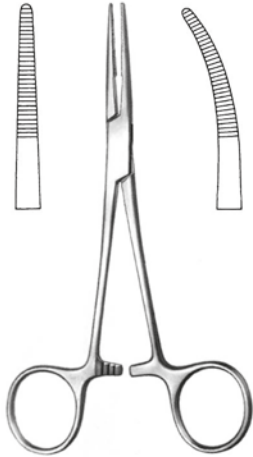
13230-14 14,0 cm, 5½" 13231-14



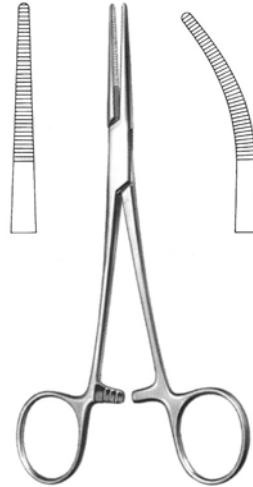
HALSTED-MOSQUITO micro

13232-12 12,5 cm, 5" 13233-12

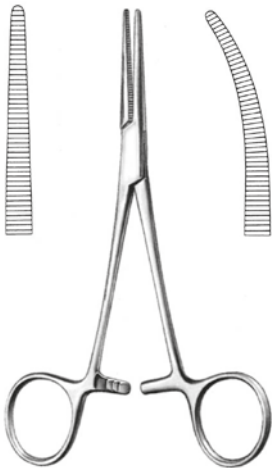
Arterienklemmen
Hemostatic Forceps
Pinzas hemostáticas
Pinze emostatiche



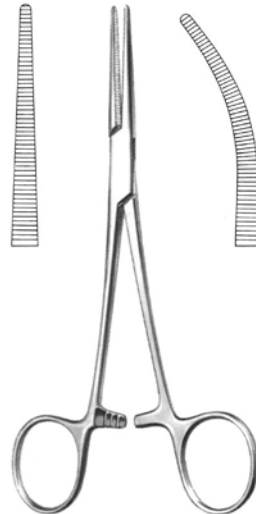
KELLY
 13240-14 14 cm, 5½" 13241-14
 13240-18 18 cm, 7" 13241-18
 13244-14 14 cm, 5½" 13245-14
 TITAN TITAN



KELLY-RANKIN
 13242-16 16 cm, 6¼" 13243-16

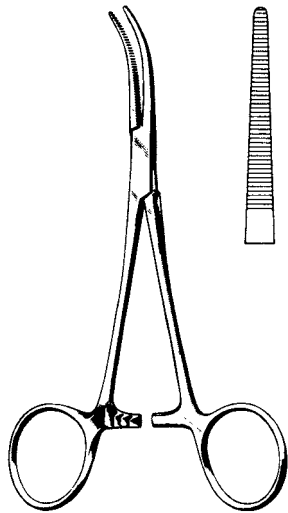


CRILE
 13250-14 14 cm, 5½" 13251-14
 13250-18 18 cm, 7" 13251-18
 13254-14 14 cm, 5½" 13255-14
 TITAN TITAN



CRILE-RANKIN
 13262-16 16 cm, 6¼" 13263-16

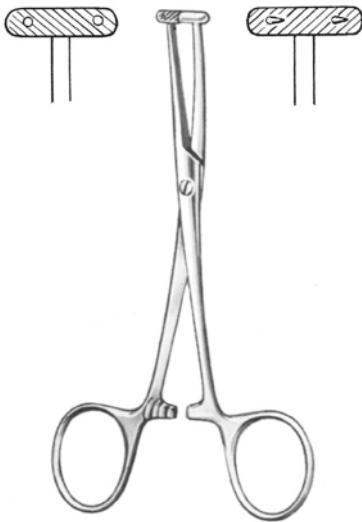
Arterienklemmen
Hemostatic Forceps
Pinzas hemostáticas
Pinze emostatiche



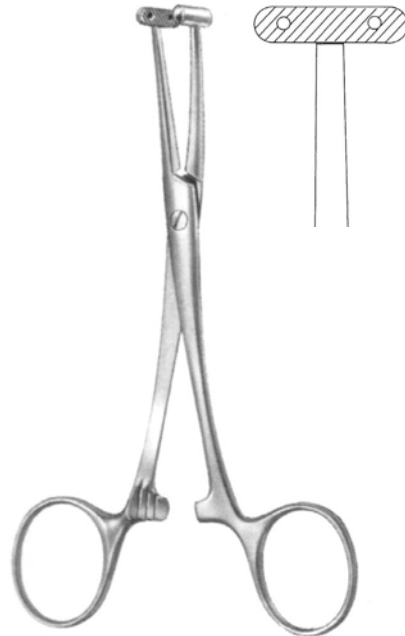
DANDY

13345-12 12 cm, 4 $\frac{3}{4}$ "
13345-14 14 cm, 5 $\frac{1}{2}$ "

Kopfschwartenzangen
Scalp Flap Forceps
Pinzas para el cuero cabelludo
Pinze per cuoio capelluto



MARTEL
13364-14 14 cm, 5½"



WILLET MARTEL
13366-19 19 cm, 7½"

Präparier- und Ligaturklemmen
Dissecting and Ligature Forceps
Pinzas para preparaciones y para ligaduras
Pinze per preparazione e per legatura



FUCHSIG
13414-20 19 cm, 7½"

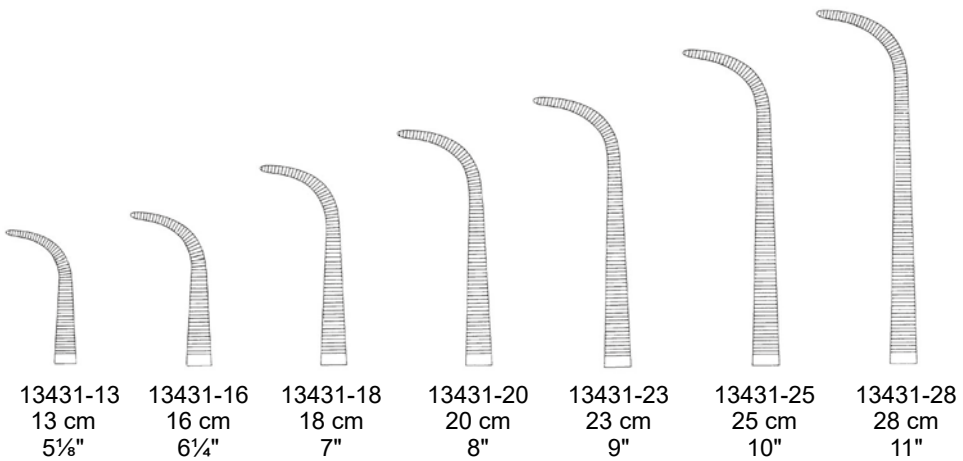


ADSON BABY
13415-14 14,0 cm, 5½"
13415-18 18,5 cm, 7¼"

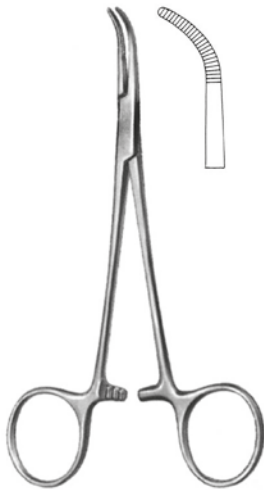
Präparier- und Ligaturklemmen
Dissecting and Ligature Forceps
Pinzas para preparaciones y para ligaduras
Pinze per preparazione e per legatura



GEMINI



Präparier- und Ligaturklemmen
Dissecting and Ligature Forceps
Pinzas para preparaciones y para ligaduras
Pinze per preparazione e per legatura



MIXTER BABY
13475-14
14 cm, 5½"

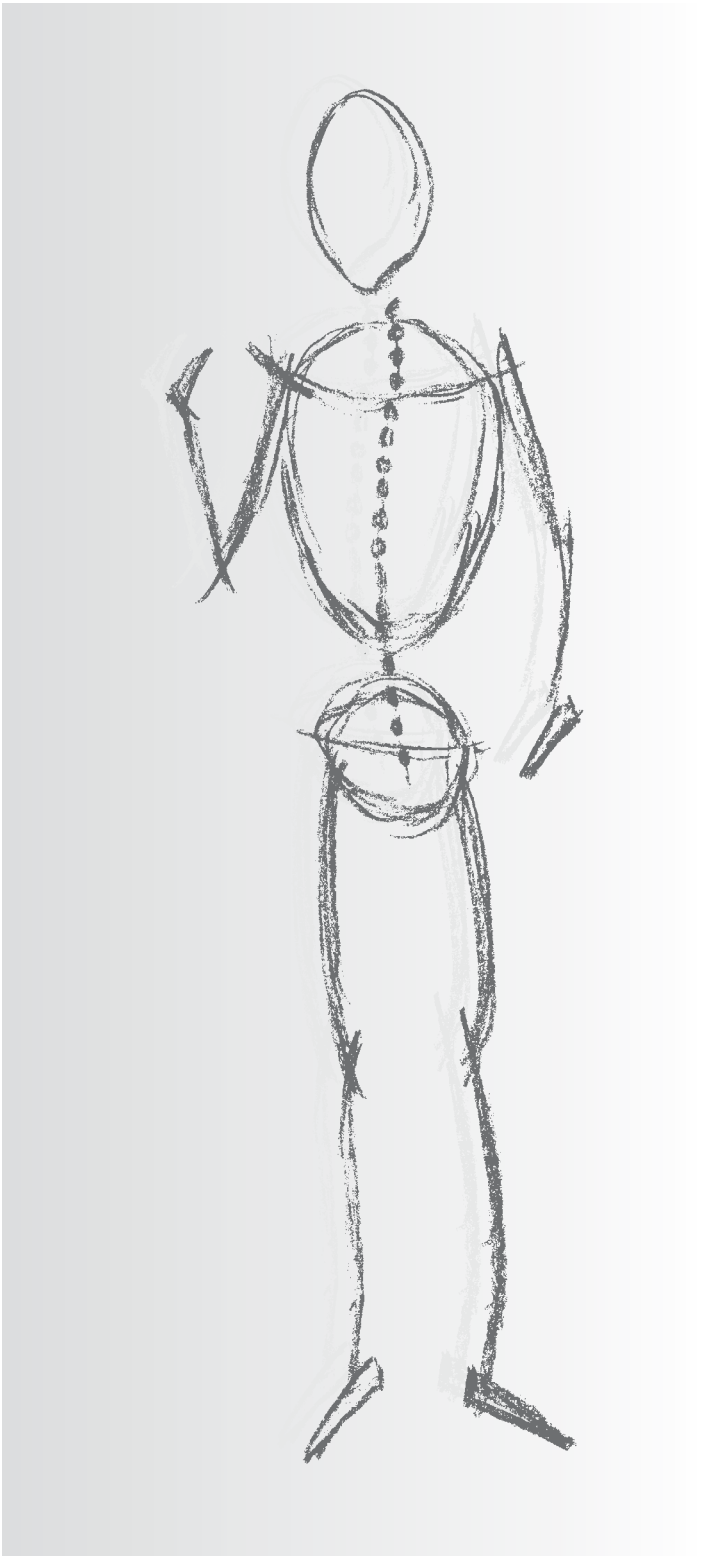


MIXTER BABY
13475-18
18 cm, 7"

Sehnenfaßzange
Tendon grasping Forceps
Pinza para agarrar tendones
Pinze da presa per tendini



CAROLL
33966-11
11 cm, 4 $\frac{3}{8}$ "



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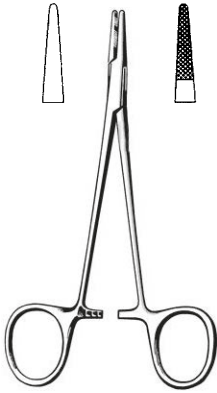
NADELHALTER

NEEDLE HOLDERS

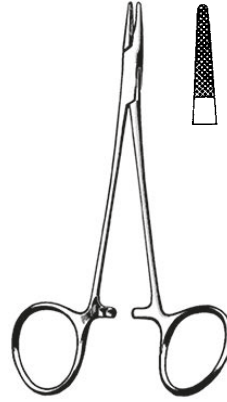
PORTA-AGUJAS

PORT'AGHI

Nadelhalter
 Needle Holders
 Porta-agujas
 Port'aghi



HALSEY
 25130-13 25140-13
 25134-13 TC 25144-13 TC
 13 cm, 5 1/8"



NEIVERT
 25148-13 TC
 13 cm, 5 1/8"

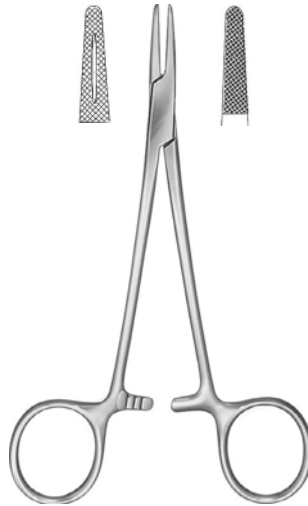


BAUMGARTNER
 25150-14 25154-14 TC
 14 cm, 5 1/2"



CRILE-WOOD
 25160-15 15 cm, 6" 25164-15 TC
 25160-18 18 cm, 7" 25164-18 TC
 25160-20 20 cm, 8" 25164-20 TC
 25160-23 23 cm, 9" 25164-23 TC

Nadelhalter
Needle Holders
Porta-agujas
Port'aghi



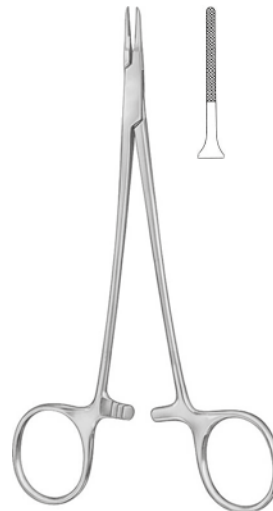
MAYO-HEGAR

25180-14	14 cm, 5½"	25184-14 TC
25180-16	16 cm, 6¼"	25184-16 TC
25180-18	18 cm, 7"	25184-18 TC
25180-20	20 cm, 8"	25184-20 TC
25180-24	24 cm, 9¼"	25184-24 TC
25180-26	26 cm, 10¼"	25184-26 TC



DE BAKEY

25214-16 TC	16 cm, 6¼"
25214-18 TC	18 cm, 7"
25214-20 TC	20 cm, 8"
25214-23 TC	23 cm, 9"
25214-26 TC	26 cm, 10¼"



RYDER 1 mm

25224-13 TC	13 cm, 5⅝"
25224-15 TC	15 cm, 6"
25224-18 TC	18 cm, 7"
25224-20 TC	20 cm, 8"
25224-23 TC	23 cm, 9"
25224-26 TC	26 cm, 10¼"

RYDER 2 mm

25225-13 TC
25225-15 TC
25225-18 TC
25225-20 TC
25225-23 TC
25225-26 TC

Mikro-Nadelhalter
 Micro Needle Holders
 Micro-porta-agujas
 Micro portaghi

ohne Sperre
 without lock
 sin cremallera
 senza cremagliera

mit Sperre
 with lock
 con cremallera
 con cremagliera



11,5 cm, 4½"
 13,0 cm, 5⅙"
 14,0 cm, 5½"
 18,0 cm, 7"
 21,0 cm, 8¼"
 23,0 cm, 9"

25660-12
 25660-13
 25660-14
 25700-18

25661-12
 25661-13
 25661-14
 25701-18

25720-12
 25720-13
 25720-14
 25730-18
 25730-21
 25730-23

25731-12
 25731-13
 25731-14
 25731-18
 25731-21
 25731-23

mit diamantiertem Maul
 with diamond jaw
 con boca de diamante
 con morso diamantato

11,5 cm, 4½"
 13,0 cm, 5⅙"
 14,0 cm, 5½"
 18,0 cm, 7"
 21,0 cm, 8¼"
 23,0 cm, 9"

25720-12D
 25720-13D
 25720-14D
 25730-18D
 25730-21D
 25730-23D

25671-12D
 25671-13D
 25671-14D
 25731-18D
 25731-21D
 25731-23D

T = Titan, titanium, titanio, titanio



15,0 cm, 6"
 18,0 cm, 7"
 21,0 cm, 8¼"

93250-15T
 93250-18T
 93250-21T

93251-15T
 93251-18T
 93251-21T

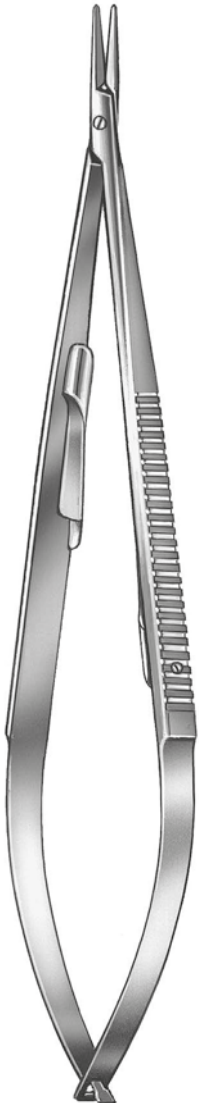
93260-15T
 93260-18T
 93260-21T

93261-15T
 93261-18T
 93261-21T



BARRAQUER

Mikro-Nadelhalter mit Sperre
 Micro Needle Holders, with lock
 Micro-porta-agujas con cremallera
 Micro portaghi, con cremagliera



14,0 cm, 5½"
 18,0 cm, 7"
 21,5 cm, 8½"
 23,0 cm, 9"



25670-14
 25670-18
 25670-21



25671-14
 25671-18



25672-14
 25672-18
 25672-21
 25672-23



25673-14
 25673-18

mit TC 1,4 mm
 with TC jaw 1,4 mm
 con TC 1,4 mm
 con morso in TC 1,4 mm

14,0 cm, 5½"
 18,0 cm, 7"
 21,5 cm, 8½"
 23,0 cm, 9"

25674-14	25675-14	25676-14	25677-14
25674-18	25675-18	25668-18	25691-18
25674-21		25668-21	
		25668-23	

mit diamantiertem Maul 0,8 mm
 with diamond jaw 0,8 mm
 con boca de diamante 0,8 mm
 con morso diamantato 0,8 mm

14,0 cm, 5½"
 18,0 cm, 7"
 21,5 cm, 8 ½"
 23,0 cm, 9"

25672-14D	25673-14D
25672-18D	25673-18D
25672-21D	
25672-23D	

T = Titan, titanium, titanio, titanio
 Maul/jaw/boca/morso 0,4mm

14,0 cm, 5 ½"
 18,0 cm, 7"
 21,5 cm, 8½"

25672-14T	25673-14T
25672-18T	25673-18T
25672-21T	25673-21T

CASTROVIEJO

Mikro-Nadelhalter, bajonettförmig
Micro Needle Holders, bayonet-shaped
Micro-porta-agujas, forma bayoneta
Micro port'aghi, forma baionetta



93092-20	200 mm / 8"
93092-22	225 mm / 9"



93093-16	165 mm / 6½"
93093-20	200 mm / 8"
93093-22	225 mm / 9"
93093-24	245 mm / 9¾"

YASARGIL

Mikro-Nadelhalter
Micro Needle Holders
Micro-porta-agujas
Micro port'aghi



93170-16 160 mm / 6¼"
93170-18 185 mm / 7¼"
ohne Sperre
without catch
sin cremallera
senza cremagliera



93171-16 160 mm / 6¼"
93171-18 185 mm / 7¼"
ohne Sperre
without catch
sin cremallera
senza cremagliera



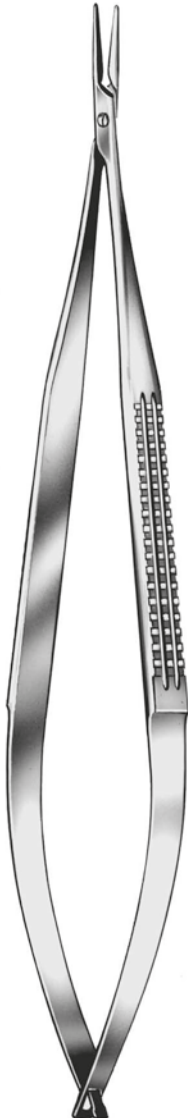
Mikro-Nadelhalter
Micro Needle Holders
Micro-porta-agujas
Micro port'aghi



93200-16
93200-18

160 mm / 6¼"
185 mm / 7¼"

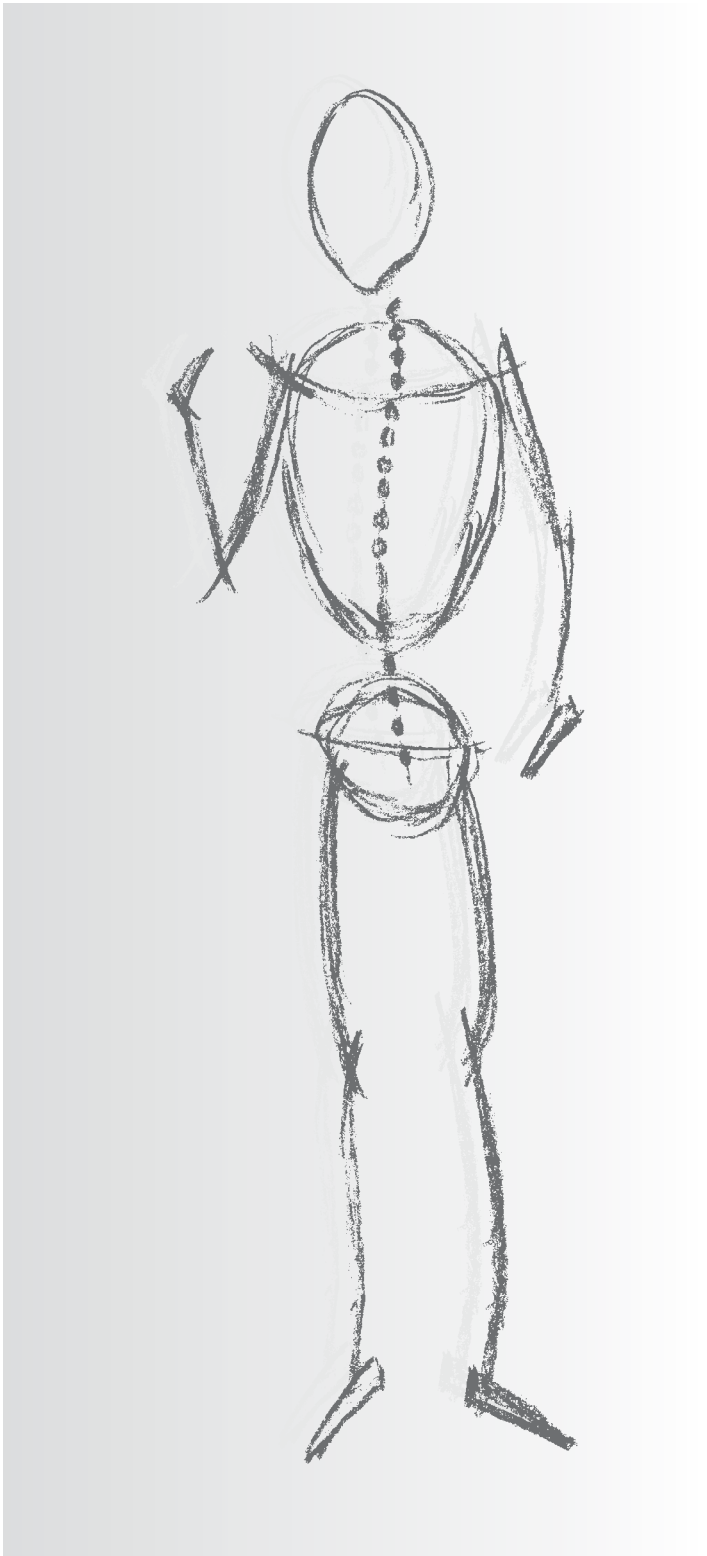
ohne Sperre
without catch
sin cremallera
senza cremagliera



93201-16
93201-18

160 mm / 6¼"
185 mm / 7¼"

ohne Sperre
without catch
sin cremallera
senza cremagliera



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HAKEN

HOOKS

GANCHOS

UNCINI

Hauthäkchen
 Skin Hooks
 Ganchos para la piel
 Uncini per pelle



scharf
 sharp
 agudo
 acuto
 A



stumpf
 blunt
 romo
 smusso
 B

FRAZIER

- A 19214-13 13 cm, 5"
- A 19214-18 18 cm, 7"
- B 19215-13 13 cm, 5"
- B 19215-18 18 cm, 7"



19216-01
 1 mm



19216-02
 2 mm



19216-05
 5 mm



19216-07
 7 mm



19216-10
 10 mm

JOSEPH
 16 cm, 6¼"



FREER
 47558-15
 15 cm, 6"



Fig. 1
 47560-18



Fig. 2
 47562-18

GILLIES
 18 cm, 7"

Wundhaken
Retractors
Separadores
Divaricatori



Blattretractor
blade retractor
separador de hoja
lama divaricatore

CLOWARD
19128-18 18 mm
19128-20 20 mm
19128-23 23 mm



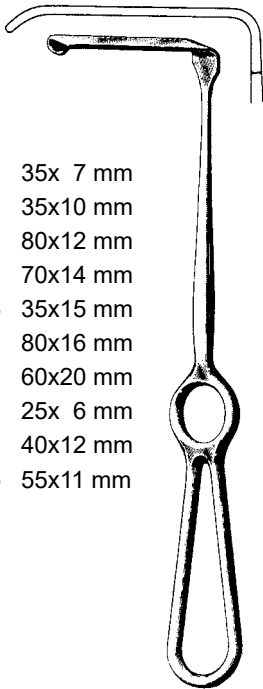
CUSHING
19234-20
20 cm, 8"



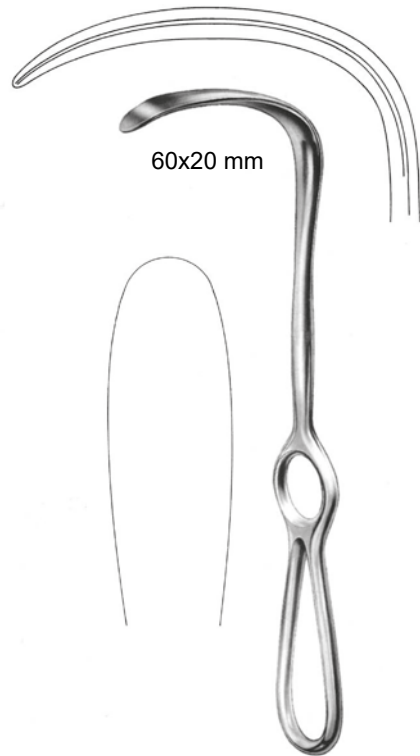
CUSHING
19235-21
21,5 cm, 8½"

Wundhaken
Retractors
Separadores
Divaricatori

- 19314-07 35x 7 mm
- 19314-10 35x10 mm
- 19314-12 80x12 mm
- 19314-14 70x14 mm
- 19314-15 35x15 mm
- 19314-16 80x16 mm
- 19314-20 60x20 mm
- 19315-06 25x 6 mm
- 19330-40 40x12 mm
- 19330-55 55x11 mm

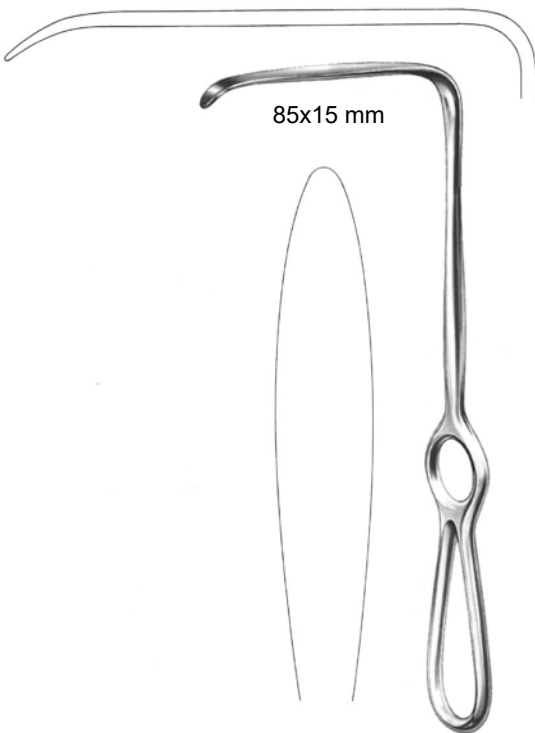


KOCHER-LANGENBECK
21 cm, 8¼"



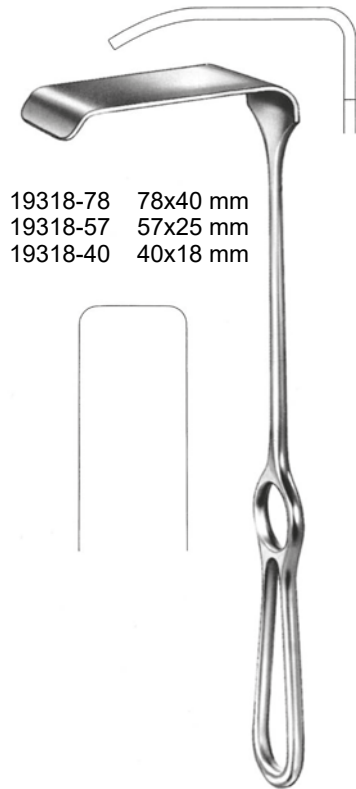
LANGENBECK
19315-21
21 cm, 8¼"

Wundhaken
Retractors
Separadores
Divaricatori



85x15 mm

LANGENBECK
19317-21
21 cm, 8¼"



19318-78 78x40 mm
19318-57 57x25 mm
19318-40 40x18 mm

KOCHER
23 cm, 9"

Wundhaken
Retractors
Separadores
Divaricatori

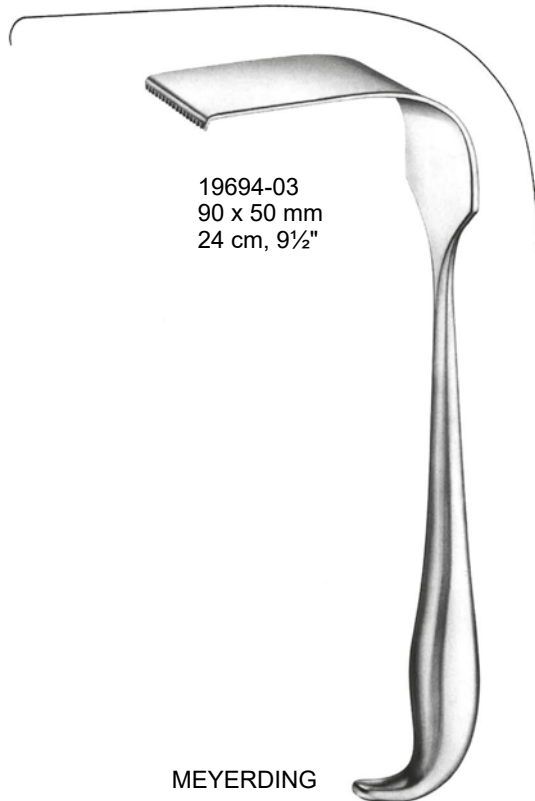
19694-01
50 x 16 mm
20 cm, 8"



19694-02
75 x 25 mm
23 cm, 9"



19694-03
90 x 50 mm
24 cm, 9½"



MEYERDING

Spinalhaken
Spinal retractors
Separadores espinales
Divaricatori spinali



TAYLOR
16,5 cm, 6½"
33831-16 75 x 30 mm
33833-16 100 x 30 mm

Nervhaken, Durahaken
Nerve Hooks, Dura Hooks
Ganchos para nervios y para dura-madre
Unicini per nervi e per dura-madre



DANDY
41051-20
20 cm, 8"



DANDY
41052-20
20 cm, 8"



DANDY
41053-20
20 cm, 8"

Nervhaken, Durahaken
Nerve Hooks, Dura Hooks
Ganchos para nervios y para dura-madre
Unicini per nervi e per dura-madre



CRILE
41054-20
20 cm, 8"

Fig. 1



CUSHING
41056-18 18 cm, 7"
41056-28 28 cm, 11"

Fig. 2



CUSHING
41058-18 18 cm, 7"
41058-28 28 cm, 11"

Nervhaken, Durahaken
Nerve Hooks, Dura Hooks
Ganchos para nervios y para dura-madre
Unicini per nervi e per dura-madre



GRAHAM
41061-16
16,5 cm, 6½"



SACHS
41064-16
18,5 cm, 7¼"



ADSON
41068-20
20 cm, 8"



ADSON
41069-20
20 cm, 8"



SMITHWICK
41070-29
29 cm, 11.4"

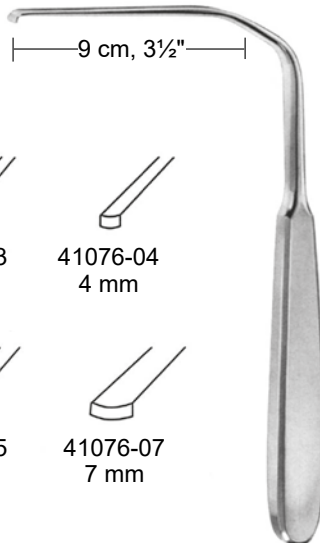
Nervwurzelhaken
Nerve Root Retractors
Separadores de raiz de nervios
Uncini per le radici dei nervi



SCOVILLE
41074-23
23 cm, 9"



HOLSHER
41075-24
24 cm, 9½"



HESS
17,5 cm, 7"



41076-03
3 mm



41076-04
4 mm



41076-05
5 mm

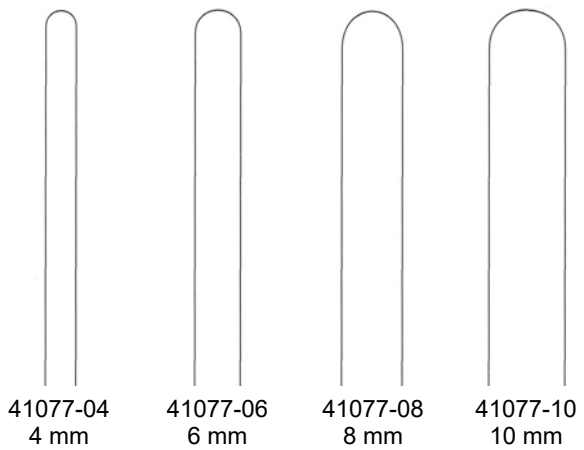


41076-07
7 mm

Nervwurzelnhaken
Nerve Root Retractors
Separadores de raiz de nervios
Uncini per le radici dei nervi



CASPAR
24 cm, 9½"



Nervwurzelhaken
Nerve Root Retractors
Separadores de raiz de nervios
Uncini per le radici dei nervi

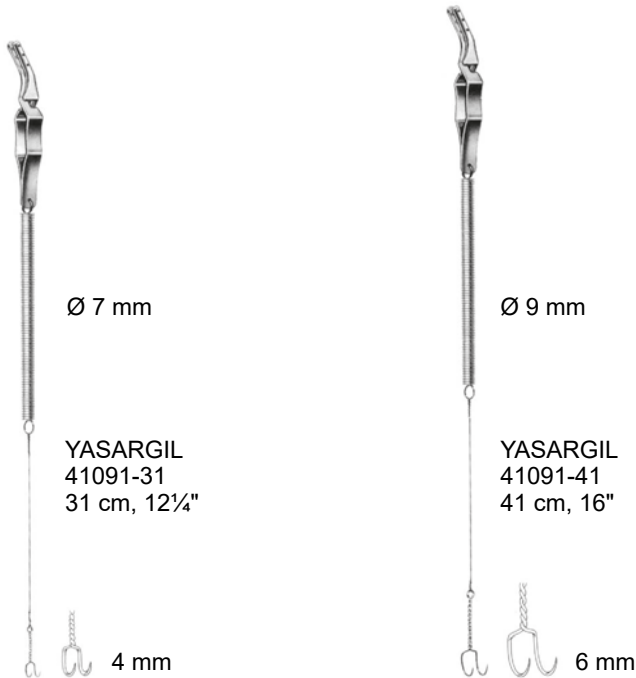
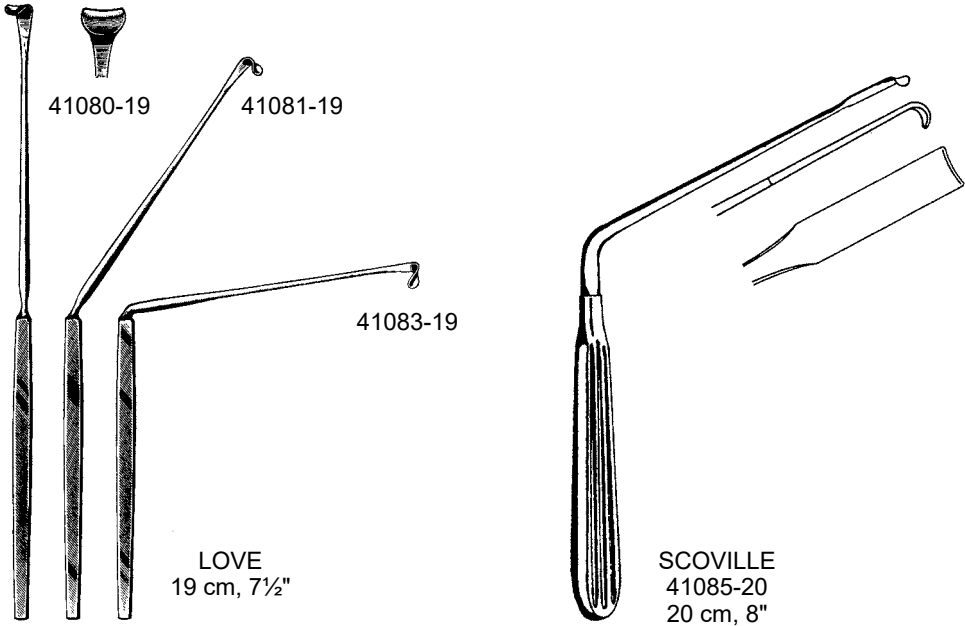


D'ERRICO
41078-23
23 cm, 9"



LOVE
41079-21
21 cm, 8¼"

Nervwurzelnhaken, Galea Haken
 Nerve Root Retractors, Galea Hooks
 Separadores de raiz de nervios, Gancho para galea
 Uncini per le radici dei nervi, Uncini galea



Explorations- und Koagulationshäkchen
 Exploration- and Coagulation Hooks
 Ganchos para exploración y coagulación
 Uncini per esplorazione e coagulazione



CASPAR
 245 mm
 9 3/4"

5 mm



93400-01

isoliert / insulated
 aislado / isolato

93400-02

nicht isoliert / not insulated
 no-aislado / non isolato

8 mm



93401-01

isoliert / insulated
 aislado / isolato

93401-02

nicht isoliert / not insulated
 no-aislado / non isolato

11 mm



93402-01

isoliert / insulated
 aislado / isolato

93402-02

nicht isoliert / not insulated
 no-aislado / non isolato



93403-01

isoliert / insulated
 aislado / isolato

93403-02

nicht isoliert / not insulated
 no-aislado / non isolato

Fadenführer, Nerv- und Gefäßhäkchen
 Ligature Guides, Nerve- and Vessel Hooks
 Guia para ligaduras, ganchos para nervios y vasos
 Conduttori per legature, uncini per nervi e vasi



YASARGIL
 185 mm / 7¼"

Fadenführer geknöpft
 Ligature Guides, probe pointed
 Guiador abotonado
 Conduttore bottonuto per legature



93405-01



93405-02



93405-03



93405-04



41242-19



41243-19

KRAYENBÜHL
 185 mm / 7¼"

Nerv- und Gefäßhäkchen
 Nerve- and Vessel Hooks
 Ganchos para nervios y vasos
 Uncini per nervi e vasi



41244-19

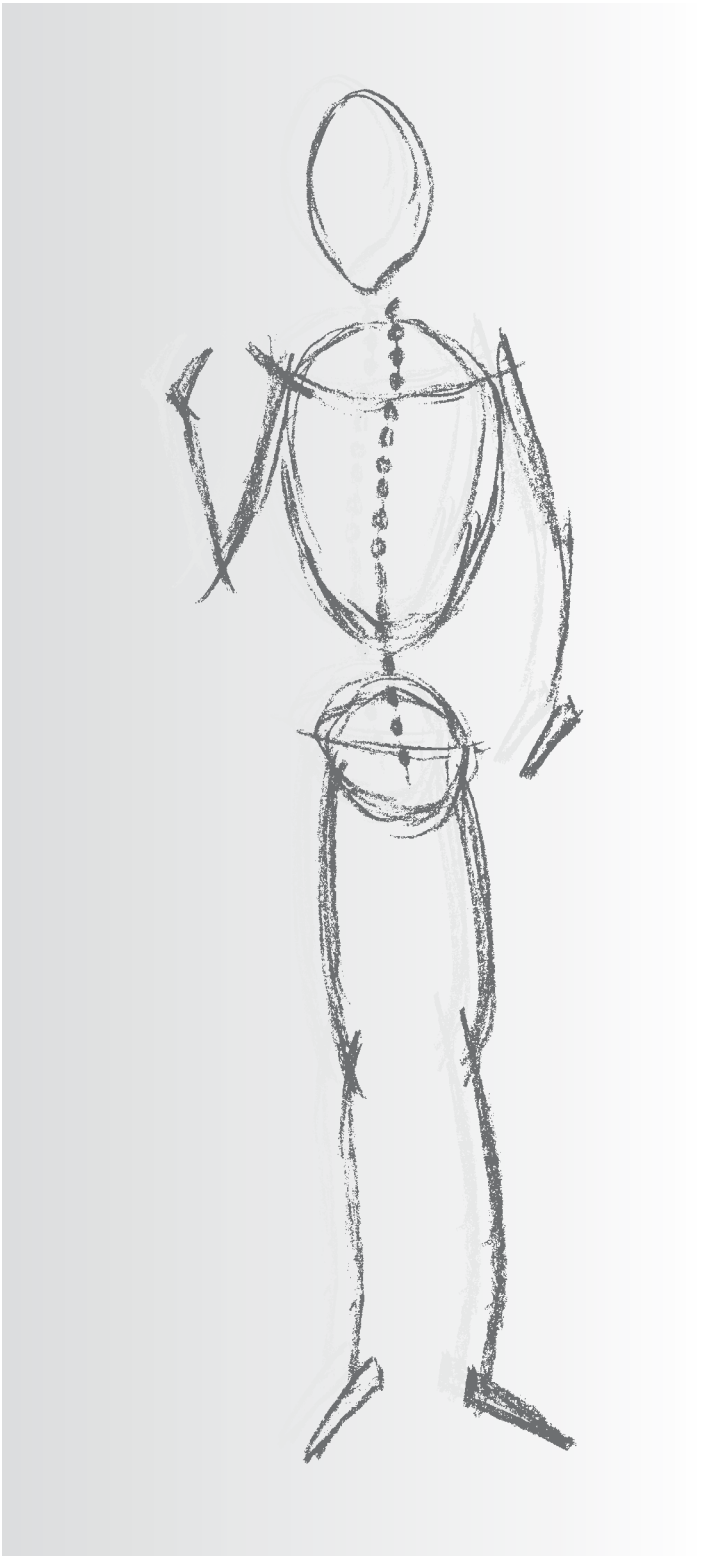


41245-19

Mikro-Häkchen, Mikro-Gefäßmesser
 Micro Hooks, Micro Vessel Knives
 Micro-ganchitos y micro-cuchillos
 Micro uncinetti e micro coltelli per vasi



}	93450-01	230 mm / 9" scharf sharp agudo acuto	
}	93450-02	230 mm / 9" stumpf blunt romo smusso	
90° }	41236-19	185 mm / 7¼" scharf, gebogen sharp, curved agudo, curvado acuto, curva	FISCH
90° }	41237-19	185 mm / 7¼" scharf, abgewinkelt sharp, angled agudo, angulado acuto, angolato	FISCH
}	93450-04	185 mm / 7¼" Mikro-Gefäßmesser Micro Vessel Knife Micro-cuchillo Micro coltello per vasi	JACOBSON



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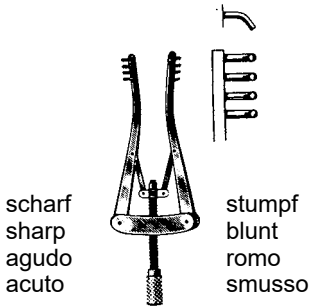
SPREIZER

SPREADER

SEPARADORES

DIVARICATORI

Wundspreizer
 Self-retaining Retractors
 Separadores autoestáticos
 Divaricatori autostatici



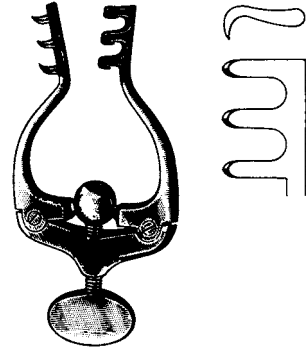
scharf
 sharp
 agudo
 acuto

stumpf
 blunt
 romo
 smusso

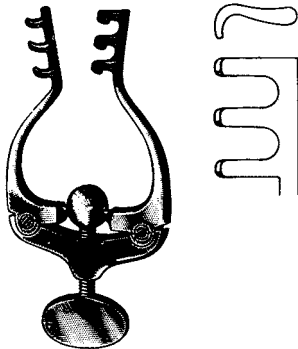
ALM

19620-07 7 cm, 2¾"
 19620-10 10 cm, 4"

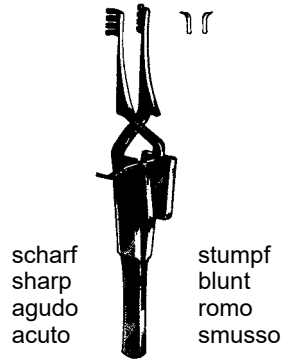
19621-07
 19621-10



JANSEN
 19630-10
 10 cm, 4"



JANSEN
 19631-10
 10 cm, 4"

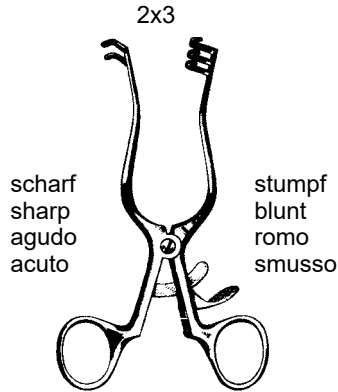


scharf
 sharp
 agudo
 acuto

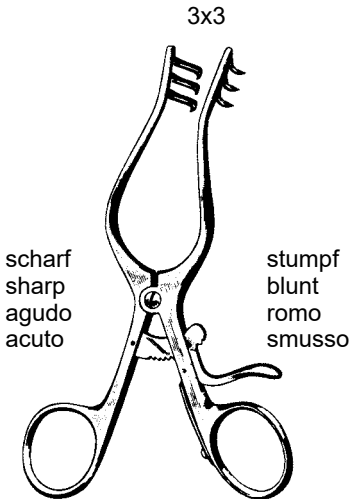
stumpf
 blunt
 romo
 smusso

HOLZHEIMER
 19634-10 19635-10
 10 cm, 4"

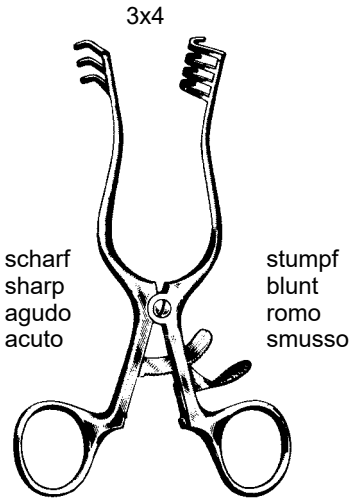
Wundspreizer
Self-retaining Retractors
Separadores autoestáticos
Divaricatori autostatici



WEITLANER
19650-10 19651-10
11,5 cm, 4½"

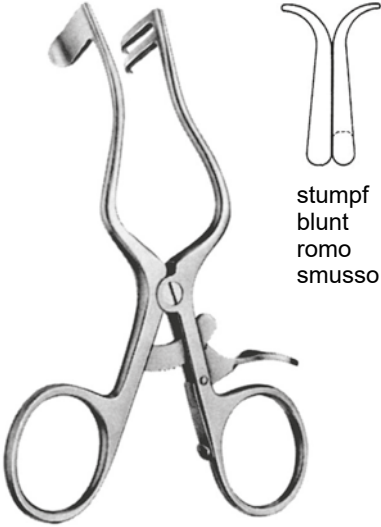


WEITLANER-WULLSTEIN
19654-13 19655-13
13 cm, 5⅛"



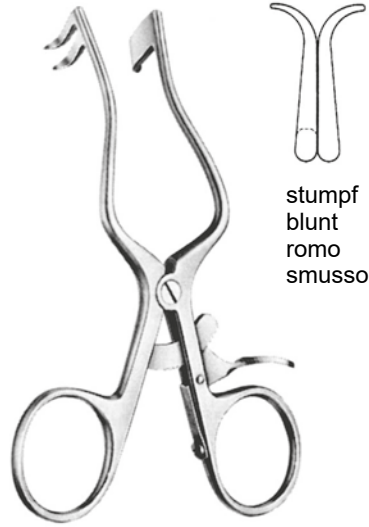
WEITLANER
19670-14 14,0 cm, 5½" 19671-14
19670-16 16,5 cm, 6½" 19671-16
19670-20 20,0 cm, 8" 19671-20
19670-24 24,0 cm, 9½" 19671-24

Wundspreizer
Self-retaining Retractors
Separadores autoestáticos
Divaricatori autostatici



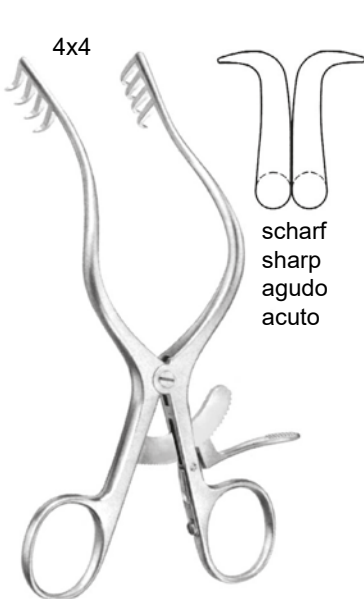
stumpf
blunt
romo
smusso

PLESTER
19672-11 11 cm, 4 $\frac{3}{8}$ "



stumpf
blunt
romo
smusso

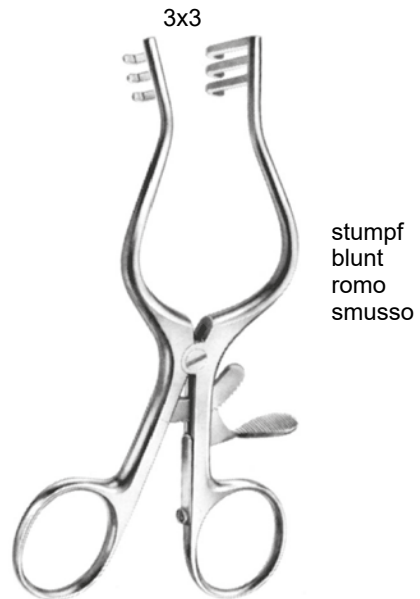
PLESTER
19673-11 11 cm, 4 $\frac{3}{8}$ "



4x4

scharf
sharp
agudo
acuto

MOLLISON
19674-15 15 cm, 6"

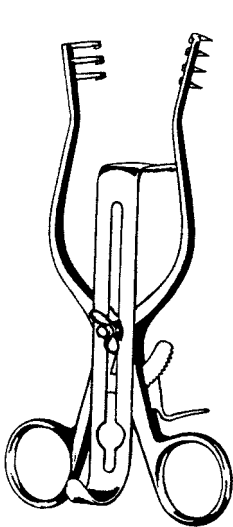


3x3

stumpf
blunt
romo
smusso

WULLSTEIN
19675-13 13 cm, 5 $\frac{1}{8}$ "

Wundspreizer
Self-retaining Retractors
Separadores autoestáticos
Divaricatori autostatici



HENLEY
16,5 cm, 6½"

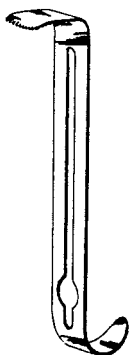


19675-00 komplett, stumpf, 3x4 Z. und 3 Valven
19675-00 complete, blunt, 3x4 teeth and 3 blades
19675-00 completo, romo, 3x4 dientes y 3 valvas
19675-00 completo, smusso, 3x4 d. e 3 valve

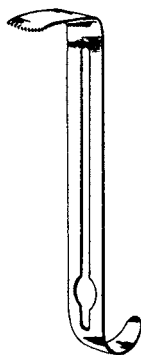
19676-00 komplett, scharf, 3x4 Z. und 3 Valven
19676-00 complete, sharp, 3x4 teeth and 3 blades
19676-00 completo, agudo, 3x4 dientes y 3 valvas
19676-00 completo con retr. acuto 3x4 d. e 3 valve

19678-05 Retraktor allein, stumpf 3x4 Zähne
19678-05 Retractor only, blunt 3x4 teeth
19678-05 Separador solo, romo, 3x4 dientes
19678-05 Retrattore solo, smusso 3x4 denti

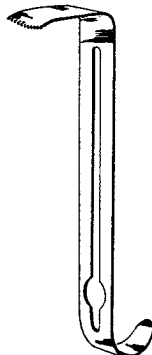
19678-06 Retraktor allein, scharf 3x4 Zähne
19678-06 Retractor only, sharp 3x4 teeth
19678-06 Separador solo, agudo, 3x4 dientes
19678-06 Retrattore solo, acuto 3x4 denti



19677-19
16x19 mm
5/8" x 3/4"



19677-25
16x25 mm
5/8" x 1"

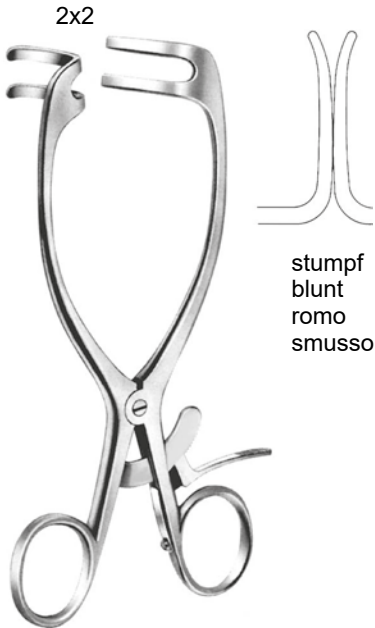


19677-32
16x32 mm
5/8" x 1¼"

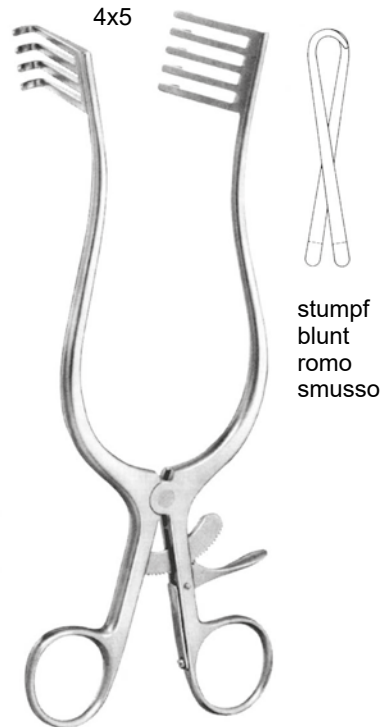
Wundspreizer
Self-retaining Retractors
Separadores autoestáticos
Divaricatori autostatici



PLESTER
19677-13 13 cm, 5 1/8"



MAYO-ADAMS
19678-16 16,5 cm, 6 1/2"



NORFOLK-NORWICH
19679-22 22 cm, 8 3/4"

Wundspreizer
 Self-retaining Retractors
 Separadores autoestáticos
 Divaricatori autostatici



4x4

scharf
 sharp
 agudo
 acuto

ADSON
 19680-19 19 cm, 7½" 19681-19



4x5

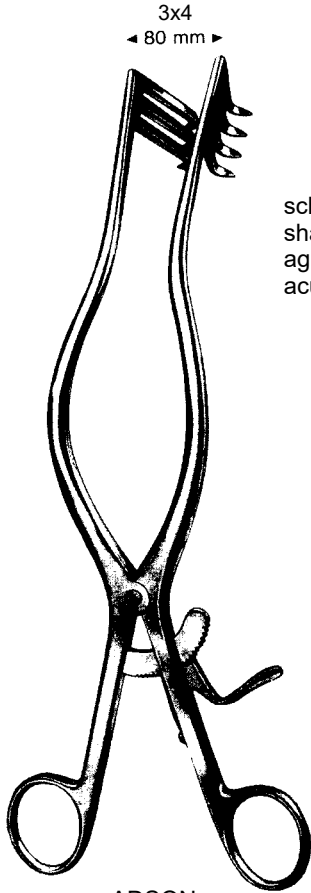


stumpf
 blunt
 romo
 smusso

TRAVERS
 19681-21 21,5 cm, 8½"

stumpf
 blunt
 romo
 smusso

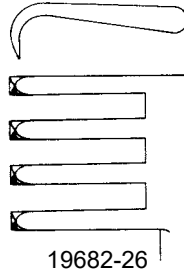
Wundspreizer
Self-retaining Retractors
Separadores autoestáticos
Divaricatori autostatici



ADSON
26,5 cm, 10½"

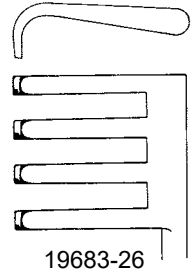
3x4
◀ 80 mm ▶

scharf
sharp
agudo
acuto

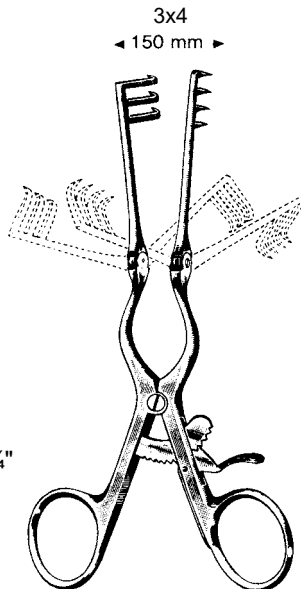


19682-26

stumpf
blunt
romo
smusso



19683-26



BECKMANN-ADSON (CONE)

3x4
◀ 150 mm ▶

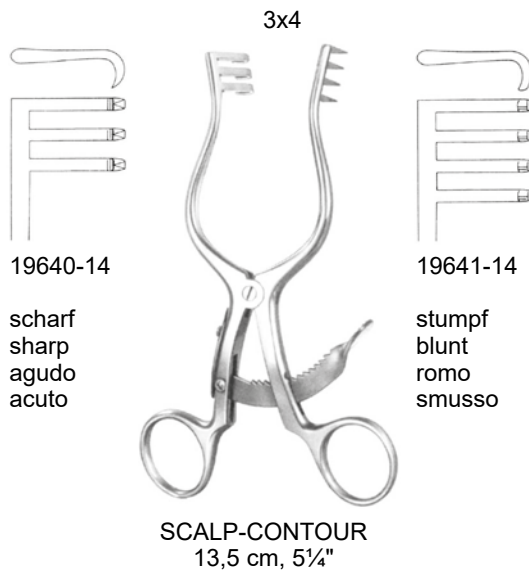
- 19684-14 14 cm, 5½"
- 19684-16 16 cm, 6¼"
- 19684-20 20 cm, 8"
- 19684-26 26 cm, 10¼"

scharf
sharp
agudo
acuto

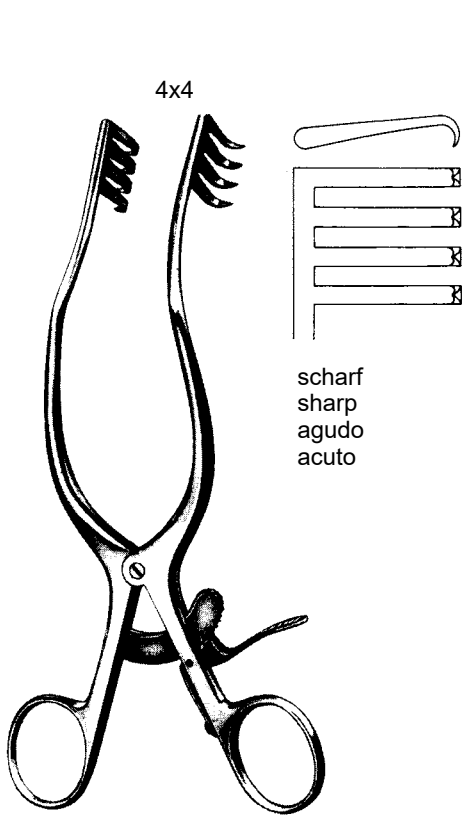
- 19685-14 14 cm, 5½"
- 19685-16 16 cm, 6¼"
- 19685-20 20 cm, 8"
- 19685-26 26 cm, 10¼"

stumpf
blunt
romo
smusso

Kopfhautspreizer
Scalp Retractor
Separador para el cuero cabelludo
Divaricatore autostatico per cuoio capelluto

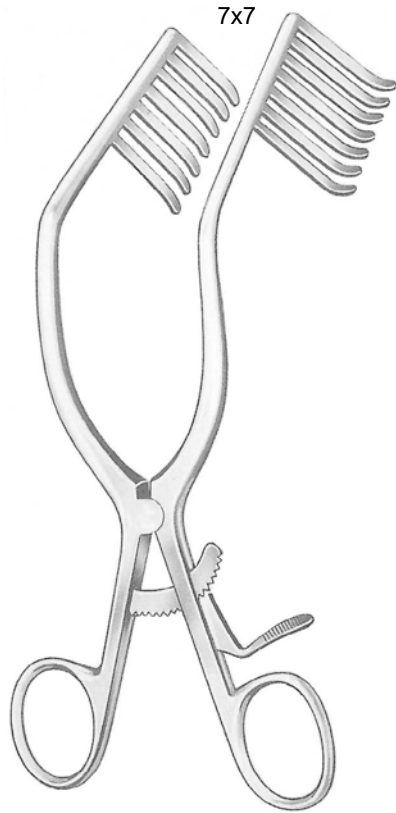


Zerebellum-Spreizer
 Cerebellar Retractor
 Separador para cerebello
 Divaricatore per cervelletto



ANDERSON ADSON
 19679-20 19,5 cm, 7¾"

scharf
 sharp
 agudo
 acuto



MISKIMON
 22 cm, 8¾"

19693-01
 scharf
 sharp
 agudo
 acuto

19693-02
 stumpf
 blunt
 romo
 smusso

Laminektomie-Wundspreizer
Laminectomy Retractors
Separadores para laminectomía
Divaricatori per laminectomia



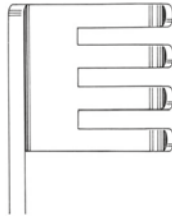
ADSON
19686-32
32 cm, 12³/₄"

Laminektomie-Wundspreizer
 Laminectomy Retractors
 Separadores para laminectomía
 Divaricatori per laminectomia

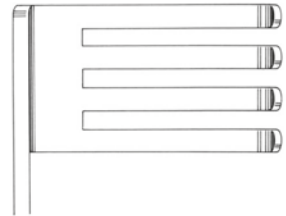
4x4



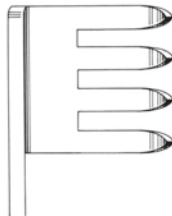
BECKMANN-ADSON
 31 cm, 12³/₄"



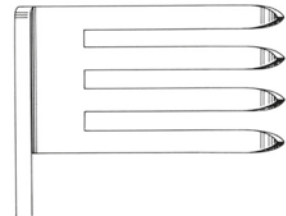
19687-01
 25 x 27 mm
 stumpf
 blunt
 romo
 smusso



19688-01
 45 x 27 mm
 stumpf
 blunt
 romo
 smusso



19687-02
 25 x 27 mm
 scharf
 sharp
 agudo
 acuto

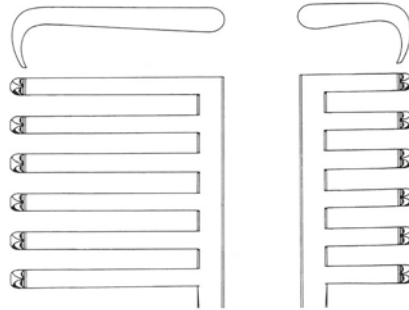


19688-02
 45 x 27 mm
 scharf
 sharp
 agudo
 acuto

Laminektomie-Wundspreizer
Laminectomy Retractors
Separadores para laminectomía
Divaricatori per laminectomia

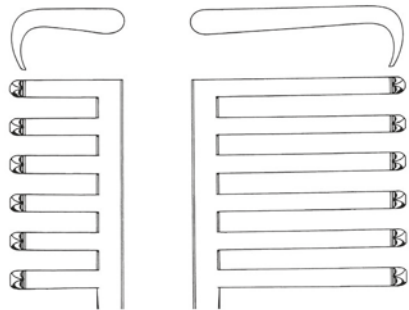


28,5 cm, 11¼"



19689-01

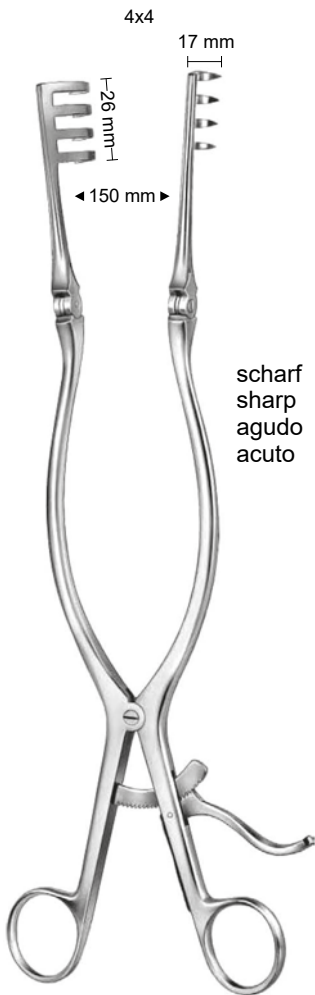
scharf, lange Zähne links
sharp, long teeth on left side
agudo, dientes largos a la izquierda
acuto, denti lunghi a sinistra



19689-02

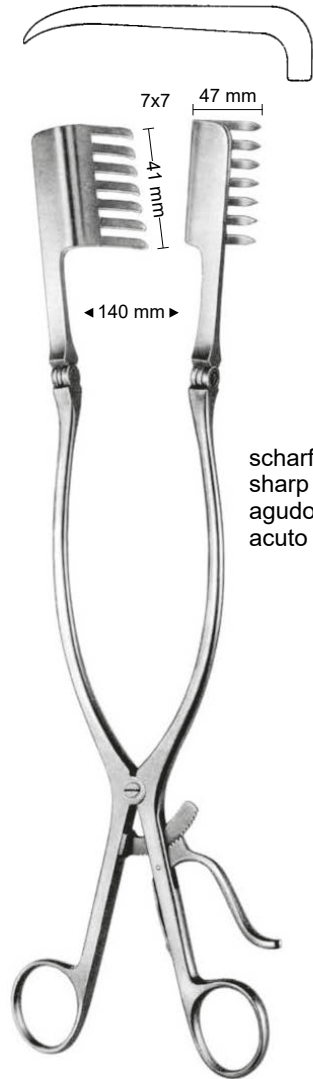
scharf, lange Zähne rechts
sharp, long teeth on right side
agudo, dientes largos a la derecha
acuto, denti lunghi a destra

Laminektomie-Wundspreizer
Laminectomy Retractors
Separadores para laminectomía
Divaricatori per laminectomia



scharf
sharp
agudo
acuto

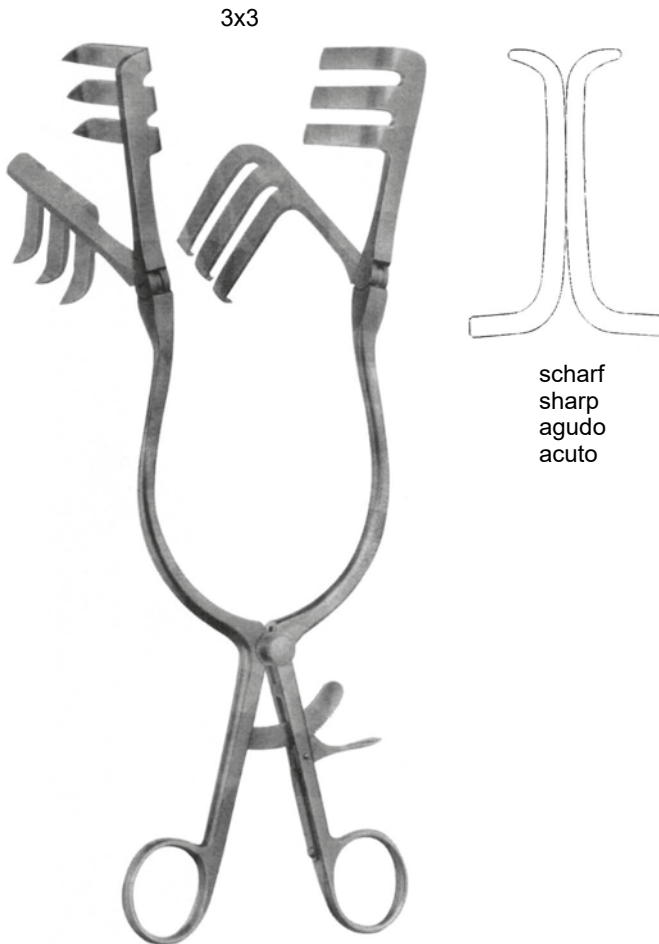
BECKMANN
19690-31
31 cm, 12¼"



scharf
sharp
agudo
acuto

BECKMANN-EATON
19692-32
32 cm, 12¾"

Laminektomie-Wundspreizer
Laminectomy Retractors
Separadores para laminectomía
Divaricatori per laminectomia



scharf
sharp
agudo
acuto

HARVEY-JACKSON
19693-28
28 cm, 11"

Laminektomie-Wundspreizer
Laminectomy Retractors
Separadores para laminectomía
Divaricatori per laminectomia

Blätter rechts
blades right hand side
valvas a la derecha
Lame destra



KNIGHTON
19694-18
18 cm, 7"

Blätter links
blades left hand side
valvas a la izquierda
Lame sinistra



KNIGHTON
19695-18
18 cm, 7"

Laminektomie-Wundspreizer
Laminectomy Retractors
Separadores para laminectomía
Divaricatori per laminectomia

Blätter rechts
blades right hand side
valvas a la derecha
Lame destra



WALTON
19695-01
18 cm, 7"

Blätter links
blades left hand side
valvas a la izquierda
Lame sinistra



WALTON
19695-02
18 cm, 7"

Laminektomie-Wundspreizer
 Laminectomy Retractors
 Separadores para laminectomía
 Divaricatori per laminectomia



19770-00 CASPAR
 Sperrer mit Haken 19772-38 und
 5 Blättern 19774-37 - 19774-57
 Retractor with hook 19772-38 and
 5 blades 19774-37 - 19774-57
 Retractor con gancho 19772-38 y
 5 hojas 19774-37 - 19774-57
 Divaricatore con gancio 19772-38 e
 5 valve 19774-37 - 19774-57

19770-11
 Sperrer, alleine
 Retractor, only
 Retractor, suelto
 Divaricatore solo



19779-00
 Drehschlüssel alleine
 Key only
 Llave sola
 Chiave sola



19772-38	Haken	38 mm
	Hook	38 mm
	gancho de	38 mm
	gancio	38 mm
19772-58	Haken	58 mm
	Hook	58 mm
	gancho de	58 mm
	gancio	58 mm



19774-32	32 x 22 mm
19774-37	37 x 22 mm
19774-43	43 x 22 mm
19774-47	47 x 22 mm
19774-52	52 x 22 mm
19774-57	57 x 22 mm
19774-62	62 x 22 mm
19774-67	67 x 22 mm

Blätter / blades
 hojas / valve



19776-32	32 x 37 mm
19776-37	37 x 37 mm
19776-43	43 x 37 mm
19776-47	47 x 37 mm
19776-52	52 x 37 mm
19776-57	57 x 37 mm
19776-62	62 x 37 mm
19776-67	67 x 37 mm

Blätter / blades
 hojas / valve

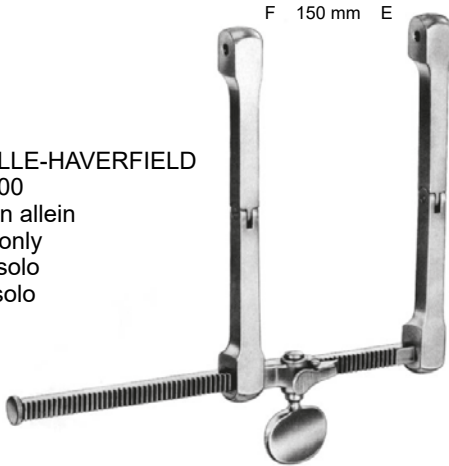


19778-32	32 x 52 mm
19778-37	37 x 52 mm
19778-43	43 x 52 mm
19778-47	47 x 52 mm
19778-52	52 x 52 mm
19778-57	57 x 52 mm
19778-62	62 x 52 mm
19778-67	67 x 52 mm

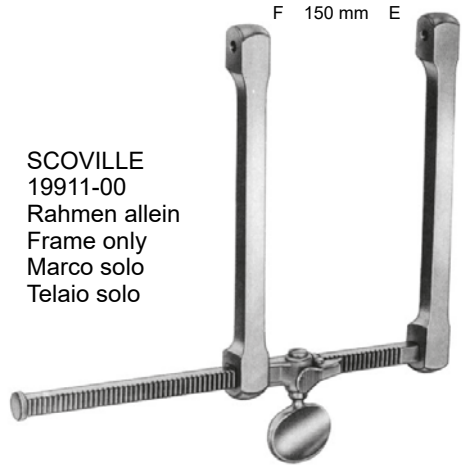
Blätter / blades
 hojas / valve

Laminektomiespreizer
Laminectomy Retractors
Separadores para laminectomia
Divaricatori per laminectomia

SCOVILLE-HAVERFIELD
19910-00
Rahmen allein
Frame only
Marco solo
Telaio solo



SCOVILLE
19911-00
Rahmen allein
Frame only
Marco solo
Telaio solo



SCOVILLE-HAVERFIELD
19910-01
komplett bestehend aus:
complete consisting of:
completo con:
completo con:
19910-00 + 19913-50 + 19917-64

SCOVILLE
19911-01
komplett bestehend aus:
complete consisting of:
completo con:
completo con:
19911-00 + 19913-50 + 19917-64



SCOVILLE
19912-50
50 mm



SCOVILLE
19912-70
70 mm



SCOVILLE
19914-41 41 x 38 mm
19914-67 67 x 44 mm



TAYLOR
19915-48 48 x 50 mm
19915-64 64 x 50 mm
19916-64 64 x 64 mm
19916-80 80 x 57 mm



SCOVILLE
19913-50
50 mm



SCOVILLE
19913-70
70 mm



SCOVILLE
19917-64 64 x 25 mm
19918-64 64 x 50 mm
19918-88 88 x 25 mm

Laminektomiespreizer
Laminectomy Retractors
Separadores para laminectomia
Divaricatori per laminectomia

62 x 52 mm

62 x 37 mm



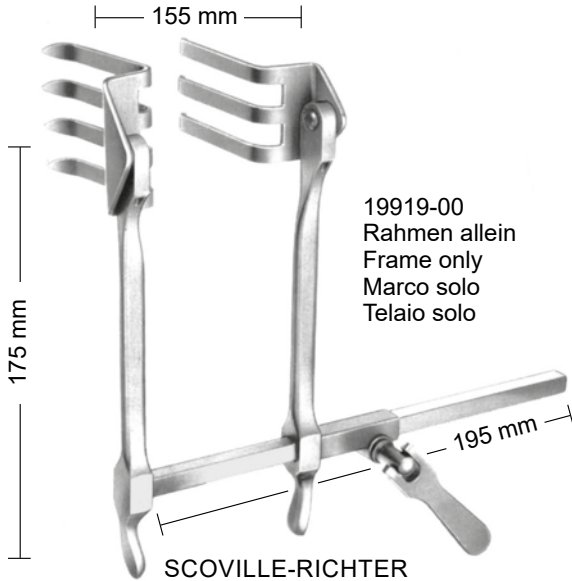
19919-02

1 Paar / 1 pair / 1 par / 1 paio



19919-03

47 x 51 mm



19919-00
Rahmen allein
Frame only
Marco solo
Telaio solo

SCOVILLE-RICHTER
19919-01

komplett / complete / completo / completo



19919-04

30 x 40 mm



19919-05

37 x 62 mm

Rahmen mit 1 Paar Valven 19919-02
frame with one pair of blades 19919-02
marco con 1 par de valvas 19919-02
divaricatore con valve 19919-02

Cervicalspreizer
Cervical Retractor
Separador cervical
Divaricatore cervicale



CLOWARD
25 cm, 10"

spitz
sharp
agudo
acuto

23 mm



15 mm

19710-40	40 x 15 / 23 mm
19710-45	45 x 15 / 23 mm
19710-50	50 x 15 / 23 mm
19710-55	55 x 15 / 23 mm
19710-60	60 x 15 / 23 mm

19710-01
Sperrer, alleine
Retractor, only
Retractor, suelto
Divaricatore solo

19710-00
Sperrer komplett mit 5 Valven spitz
Retractor complete with 5 blades sharp
Separador completo con 5 valvas agudas
Divaricatore completo con 5 valve acute

Cervicalspreizer
 Cervical Retractor
 Separador cervical
 Divaricatore cervicale



CLOWARD
 25 cm, 10"

stumpf
 blunt
 romo
 smusso



19711-40	40 x 15 / 23 mm
19711-45	45 x 15 / 23 mm
19711-50	50 x 15 / 23 mm
19711-55	55 x 15 / 23 mm
19711-60	60 x 15 / 23 mm

19710-01
 Sperrer, alleine
 Retractor, only
 Retractor, suelto
 Divaricatore solo

19712-00
 Sperrer komplett mit 5 Valven stumpf
 Retractor complete with 5 blades blunt
 Separador completo con 5 valvas romas
 Divaricatore completo con 5 valve smusse

Cervicalspreizer
Cervical Retractor
Separador cervical
Divaricatore cervicale

spitz
sharp
agudo
acuto



19710-40	40 x 15 / 23 mm
19710-45	45 x 15 / 23 mm
19710-50	50 x 15 / 23 mm
19710-55	55 x 15 / 23 mm
19710-60	60 x 15 / 23 mm

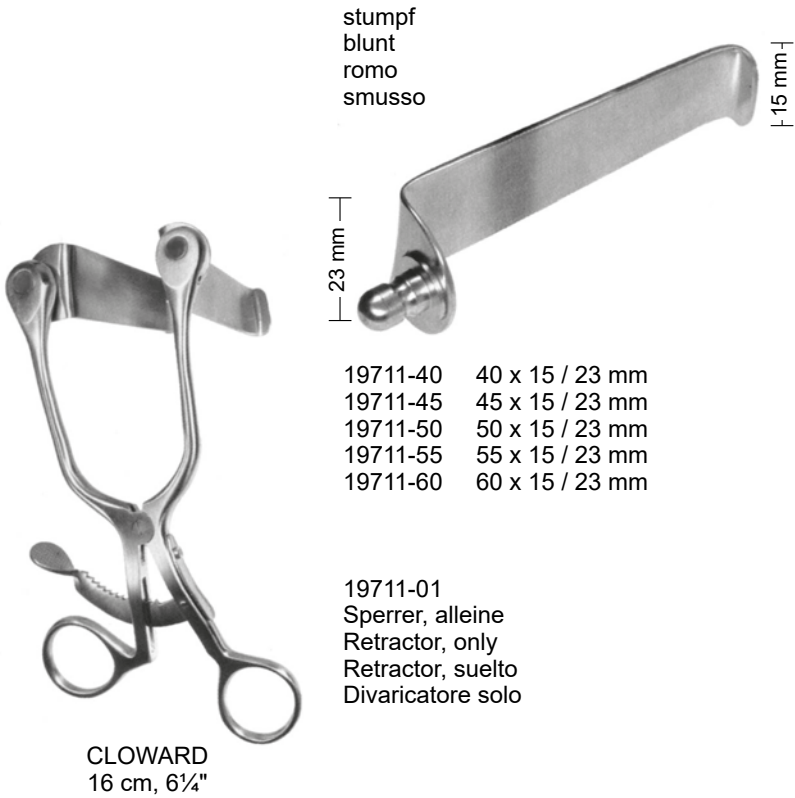


CLOWARD
16 cm, 6¼"

19711-01
Sperrer, alleine
Retractor, only
Retractor, suelto
Divaricatore solo

19711-00
Sperrer komplett mit 5 Valven spitz
Retractor complete with 5 blades sharp
Separador completo con 5 valvas agudas
Divaricatore completo con 5 valve acute

Cervicalspreizer
 Cervical Retractor
 Separador cervical
 Divaricatore cervicale



stumpf
 blunt
 romo
 smusso

23 mm

15 mm

- 19711-40 40 x 15 / 23 mm
- 19711-45 45 x 15 / 23 mm
- 19711-50 50 x 15 / 23 mm
- 19711-55 55 x 15 / 23 mm
- 19711-60 60 x 15 / 23 mm

19711-01
 Sperrer, alleine
 Retractor, only
 Retractor, suelto
 Divaricatore solo

CLOWARD
 16 cm, 6¼"

19713-00
 Sperrer komplett mit 5 Valven stumpf
 Retractor complete with 5 blades blunt
 Separador completo con 5 valvas romas
 Divaricatore completo con 5 valve smusse

Cervicalspreizer
Cervical Retractor
Separador cervical
Divaricatore cervicale



90 mm, 3 1/2"

CASPAR
19721-15
165 mm, 5 1/2"

Sperrer, alleine
Retractor, only
Retractor, suelto
Divaricatore solo



19726-01

Blätter-Wechselpinzette
Blade ejector
Pinza para cambiar hojas
Pinze per cambiare valve

19721-00 compl.

5 Valven / 5 blades / 5 valvas / 5 valve

Blätter, stumpf / blunt blades, only stainless steel /

hojas romas de acero inox. / valve smusse di acciaio inox

19738-45 45 x 23 mm

19738-50 50 x 23 mm

19738-55 55 x 23 mm

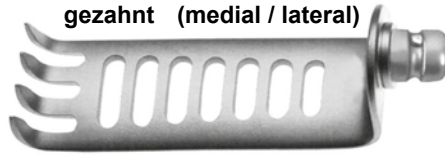
19738-60 60 x 23 mm

19738-65 65 x 23 mm

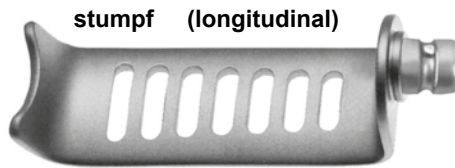


Titan Blätter, gefenestert
 Titanium blades, fenestrated
 Valvas de titanio, fenestradas
 Valve de titanio, fenestrata

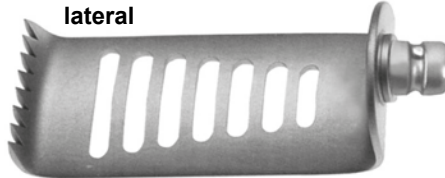
- 19 mm x 25 mm 19727-25T
- 19 mm x 30 mm 19727-30T
- 19 mm x 35 mm 19727-35T
- 19 mm x 40 mm 19727-40T
- 19 mm x 45 mm 19727-45T
- 19 mm x 50 mm 19727-50T
- 19 mm x 55 mm 19727-55T
- 19 mm x 60 mm 19727-60T



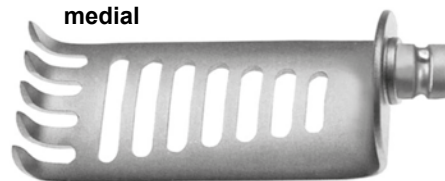
- 19 mm x 25 mm 19728-25T
- 19 mm x 30 mm 19728-30T
- 19 mm x 35 mm 19728-35T
- 19 mm x 40 mm 19728-40T
- 19 mm x 45 mm 19728-45T
- 19 mm x 50 mm 19728-50T
- 19 mm x 55 mm 19728-55T
- 19 mm x 60 mm 19728-60T



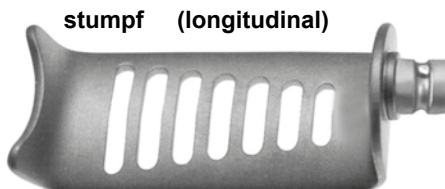
- 24 mm x 30 mm 19729-30T
- 24 mm x 35 mm 19729-35T
- 24 mm x 40 mm 19729-40T
- 24 mm x 45 mm 19729-45T
- 24 mm x 50 mm 19729-50T
- 24 mm x 55 mm 19729-55T
- 24 mm x 60 mm 19729-60T
- 24 mm x 65 mm 19729-65T
- 24 mm x 70 mm 19729-70T



- 24 mm x 30 mm 19730-30T
- 24 mm x 35 mm 19730-35T
- 24 mm x 40 mm 19730-40T
- 24 mm x 45 mm 19730-45T
- 24 mm x 50 mm 19730-50T
- 24 mm x 55 mm 19730-55T
- 24 mm x 60 mm 19730-60T
- 24 mm x 65 mm 19730-65T
- 24 mm x 70 mm 19730-70T



- 24 mm x 35 mm 19731-35T
- 24 mm x 40 mm 19731-40T
- 24 mm x 45 mm 19731-45T
- 24 mm x 50 mm 19731-50T
- 24 mm x 55 mm 19731-55T
- 24 mm x 60 mm 19731-60T
- 24 mm x 65 mm 19731-65T
- 24 mm x 70 mm 19731-70T
- 24 mm x 75 mm 19731-75T



Blätter für Cervicalspreizer
Blades for cervical Retractors
Hojas sueltas para separador cervical
Valve per divaricatori cervicale



19724-55
55 x 20 mm

Blätter, medial / medial blades, only stainless steel /
hojas mediales de acero inox. / valve mediali di acciaio inox

19724-40	40 x 23 mm	19724-55	55 x 23 mm
19724-45	45 x 23 mm	19724-60	60 x 23 mm
19724-50	50 x 23 mm		

Blätter, medial, TITAN / medial blades, only, TITANIUM /
hojas mediales de TITANIO / valve mediali di TITANIO

19732-25 T	25 x 24 mm	19732-50 T	50 x 24 mm
19732-30 T	30 x 24 mm	19732-55 T	55 x 24 mm
19732-35 T	35 x 24 mm	19732-60 T	60 x 24 mm
19732-40 T	40 x 24 mm	19732-65 T	65 x 24 mm
19732-45 T	45 x 24 mm	19732-70 T	70 x 24 mm



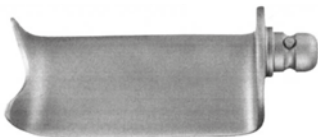
19734-50
50 x 23 mm

Blätter, lateral / lateral blades, only stainless steel /
hojas laterales de acero inox. / valve laterali di acciaio inox

19725-40	40 x 23 mm	19725-55	55 x 23 mm
19725-45	45 x 23 mm	19725-60	60 x 23 mm
19725-50	50 x 23 mm		

Blätter, lateral, TITAN / lateral blades, only, TITANIUM /
hojas laterales de TITANIO / valve laterali di TITANIO

19736-25 T	25 x 24 mm	19736-50 T	50 x 24 mm
19736-30 T	30 x 24 mm	19736-55 T	55 x 24 mm
19736-35 T	35 x 24 mm	19736-60 T	60 x 24 mm
19736-40 T	40 x 24 mm	19736-65 T	65 x 24 mm
19736-45 T	45 x 24 mm	19736-70 T	70 x 24 mm



19738-55
55 x 23 mm

Blätter, stumpf / blunt blades, only stainless steel /
hojas romas de acero inox. / valve smusse di acciaio inox

19738-45	45 x 23 mm	19738-60	60 x 23 mm
19738-50	50 x 23 mm	19738-65	65 x 23 mm
19738-55	55 x 23 mm		

Blätter, stumpf, TITAN / blunt blades, only, TITANIUM /
hojas romas de TITANIO / valve smusse di TITANIO

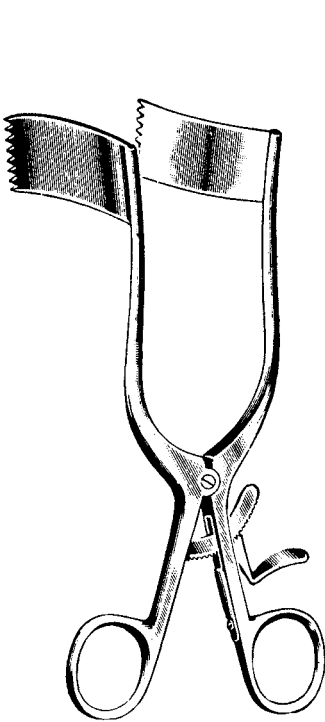
19739-30 T	30 x 24 mm	19739-55 T	55 x 24 mm
19739-35 T	35 x 24 mm	19739-60 T	60 x 24 mm
19739-40 T	40 x 24 mm	19739-65 T	65 x 24 mm
19739-45 T	45 x 24 mm	19739-70 T	70 x 24 mm
19739-50 T	50 x 24 mm	19739-75 T	75 x 24 mm



Blätter, stumpf / blunt blades, only stainless steel /
hojas romas de acero inox. / valve smusse di acciaio inox

19740-50	50 x 25 mm
19740-60	60 x 25 mm

Hemilaminectomie Spreizer
 Hemilaminectomy Retractor
 Separadores para hemilaminectomía
 Divaricatori per emilaminectomia



MEYERDING
 17 cm, 6¾"
 19748-01 2,5 x 3,2 cm
 19748-02 2,5 x 5,4 cm
 19748-03 1,9 x 6,0 cm
 19748-04 2,5 x 6,0 cm

25 x 50 mm



MARKHAM-MEYERDING
 19749-01
 18 cm, 7"

25 x 50 mm



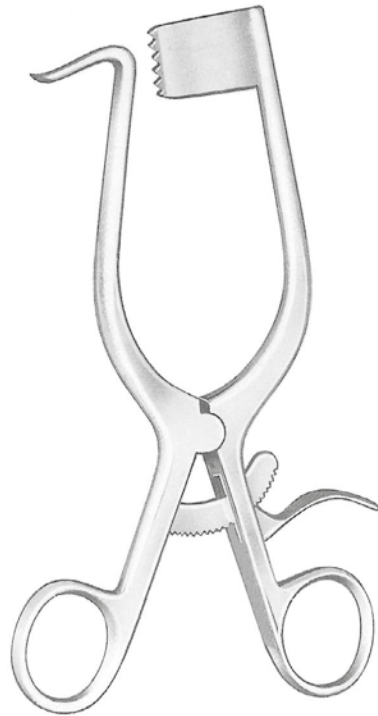
MARKHAM-MEYERDING
 19749-02
 18 cm, 7"

Hemilaminectomie Spreizer
 Hemilaminectomy Retractor
 Separadores para hemilaminectomía
 Divaricatori per emilaminectomia



WILLIAMS
 20 cm, 8"

- | | |
|------------|----------------|
| 50 x 10 mm | 19750-01 |
| 60 x 10 mm | 19750-02 |
| 70 x 10 mm | 19750-03 |
| 50 x 20 mm | 19750-04 |
| 60 x 20 mm | 19750-05 |
| 70 x 20 mm | 19750-06 |
| | links |
| | left |
| | a la izquierda |
| | a sinistra |



WILLIAMS
 20 cm, 8"

- | | |
|------------|--------------|
| 50 x 10 mm | 19751-01 |
| 60 x 10 mm | 19751-02 |
| 70 x 10 mm | 19751-03 |
| 50 x 20 mm | 19751-04 |
| 60 x 20 mm | 19751-05 |
| 70 x 20 mm | 19751-06 |
| | rechts |
| | right |
| | a la derecha |
| | a destra |

Wundspreizer
Retractors
Separadores
Divaricatori



GELPI

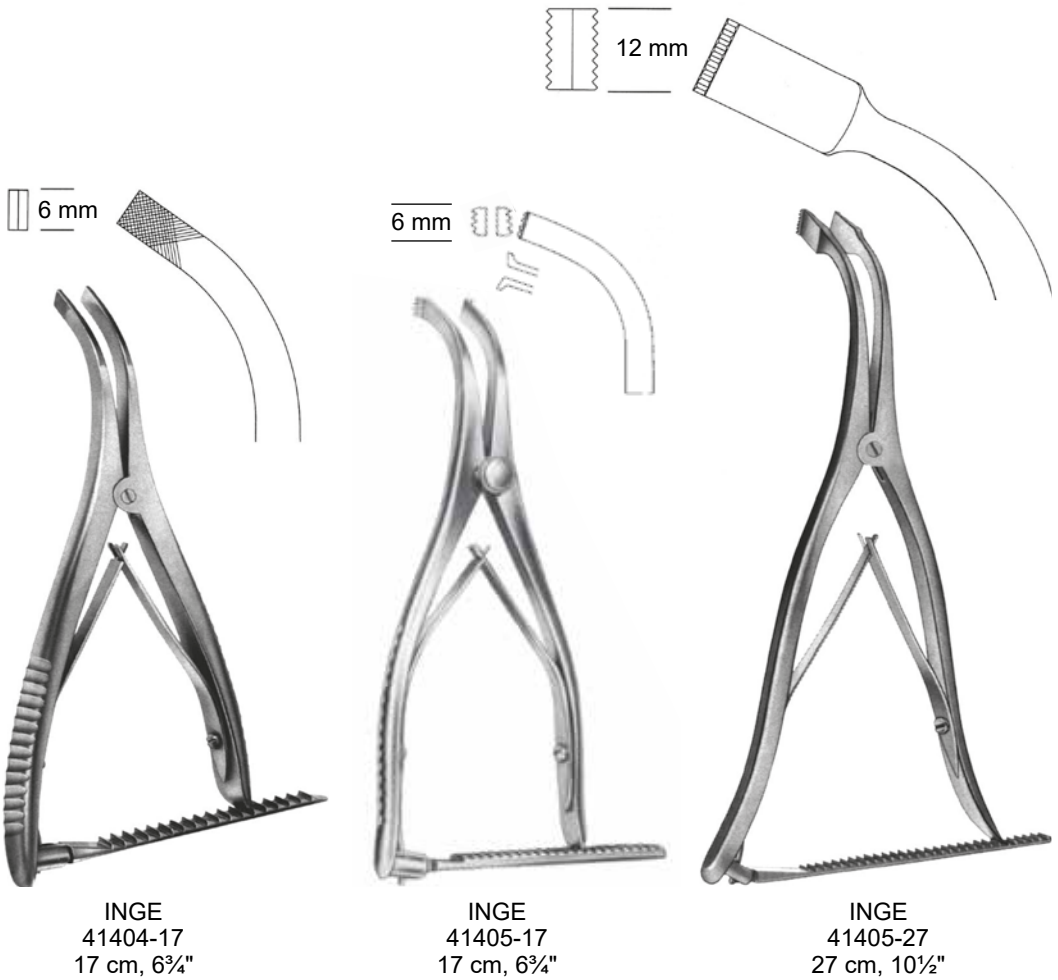
19802-09	9 cm, 3½"
19802-11	11 cm, 4¾"
19802-14	14 cm, 5½"
19802-16	16 cm, 6¼"
19802-18	18 cm, 7"

Lamina Spreizer
Lamina Retractor
Separadores para vertebrales
Separatori per vertebre

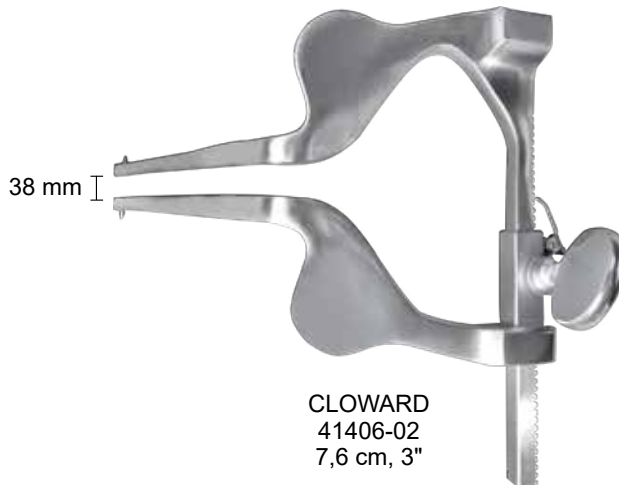


CLOWARD
41401-16
16 cm, 6¼"

Lamina Spreizer
Lamina Retractor
Separadores para vertebrales
Separatori per vertebre



Lamina Spreizer
Lamina Retractor
Separadores para vertebrales
Separatori per vertebre



Lumbal-Wundspreizer
Lumbal Retractors
Separadores lumbales autoestáticos
Divaricatori autostatici lombari



19745-40
40 mm, 1½"



19745-45
45 mm, 1¾"



19745-60
60 mm, 2¼"



19745-50
50 mm, 2"



19745-65
65 mm, 2½"



19745-55
55 mm, 2⅛"



19745-70
70 mm, 2¾"

CASPAR
19744-00
compl. incl. 7 Blätter
compl. incl. 7 blades
completo con 7 valvas
complete di 7 valve

19744-17
ohne Blätter
without blades
sin valvas
senza valve

Spekula für lumbale Bandscheibenoperationen
Specula for lumbar operations
Especulas para operaciones lumbales
Specolo per ernia discale lombare



CASPAR

19748-40	40 mm / 1½"
19748-45	45 mm / 1¾"
19748-50	50 mm / 2"
19748-55	55 mm / 2⅛"
19748-60	60 mm / 2¼"
19748-65	65 mm / 2½"
19748-70	70 mm / 2¾"
19748-75	75 mm / 3"
19748-85	85 mm / 3¼"

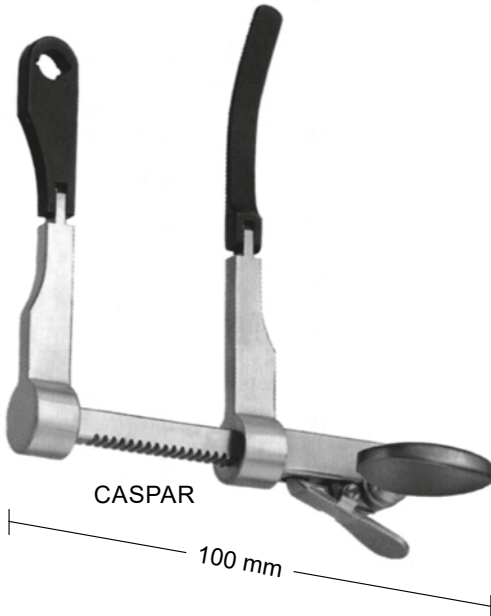


Lumbal-Wundspreizer
 Lumbal Retractors
 Separadores lumbales autoestáticos
 Divaricatori autostatici lombari

19726-01 Blätter-Wechselpinzette
 Blade ejector
 Pinza para cambiar hojas
 Pinze per cambiare valve



60 mm



CASPAR

100 mm

19742-35 35 mm
 19742-40 40 mm
 19742-45 45 mm
 19742-50 50 mm
 19742-55 55 mm
 19742-60 60 mm



Valven, lateral / blades, lateral
 valvas, laterales / valve, laterali

19930-00 Gegensperrer, komplett mit 6 Blättern
 Counter Retractor, complete with 6 blades
 Contra-retractor, completo, con 6 hojas
 Divaricatore completo di 6 valve

19930-01 Gegensperrer, alleine
 Counter Retractor, only
 Contra-retractor, suelto
 Divaricatore solo

Lumbal-Wundspreizer
Lumbal Retractors
Separadores lumbal
Divaricatore lombare



19742-35	35 mm / 1¼"
19742-40	40 mm / 1½"
19742-45	45 mm / 1¾"
19742-50	50 mm / 2"
19742-55	55 mm / 2⅛"
19742-60	60 mm / 2¼"
19742-65	65 mm / 2½"
19742-75	75 mm / 3"
19742-85	85 mm / 3¼"

Blätter alleine, lateral
blades only, lateral
hojas sueltas, lateral
valve sole, laterale



19743-35	35 mm / 1¼"
19743-40	40 mm / 1½"
19743-45	45 mm / 1¾"
19743-50	50 mm / 2"
19743-55	55 mm / 2⅛"
19743-60	60 mm / 2¼"
19743-65	65 mm / 2½"

Blätter alleine, medial
blades only, medial
hojas sueltas, medial
valve sole, mediali

Cervicales Wirbelkörper Distraktions System
Cervical Vertebral Body Distraction System
Cervical Sistema de distracción vertebral
Sistema di distrazione vertebrale cervicale



19920-01 Distraktor alleine, rechts
Distractor only, right
Distractor suelto, lado derecho
Distrattore solo, a destra

19920-02 Distraktor alleine, links
Distractor only, left
Distractor suelto, lado izquierdo
Distrattore solo, a sinistra

19930-03 Distraktor alleine, rechts mit verlängerter Führungsstange für mehrere Distraktionen
Distractor only, right with elongated toothed bar for multilevel distraction
Distractor suelto, lado derecho, con guía alargada para distracciones multiples
Distrattore solo, a destra, allungato, per multi-distrazioni

19930-02 Distraktor alleine, links
Distractor only, left
Distractor suelto, lado izquierdo
Distrattore solo, a sinistra

Cervicales Wirbelkörper Distraktions System
Cervical Vertebral Body Distraction System
Cervical Sistema de distracción vertebral
Sistema di distrazione vertebrale cervicale



19940-01

19940-01
Bohrlehre, rechts, für Distraktor 19920-01 + 19930-01
Drill guide, right, for distractor 19920-01 + 19930-01
Guía, lado derecho, para distractor 19920-01 + 19930-01
Guida a destra per distrattore 19920-01 + 19930-01

19940-02
Bohrlehre, links, für Distraktor 19920-02 + 19930-02
Drill guide, left, for distractor 19920-02 + 19930-02
Guía, lado izquierdo, para distractor 19920-02 + 19930-02
Guida a sinistra per distrattore 19920-02 + 19930-02

Wirbelkörper Distraktions System
 Vertebral Body Distraction System
 Sistema de distracción vertebral
 Sistema di distrazione vertebrale



Bohrer Ø 1,7 mm
 für Distraktionsschrauben
 Bohrtiefe 8 mm
 Twist drill Ø 1,7 mm
 for distraction screws
 drilling depth: 8 mm
 perforador Ø 1,7 mm
 para tornillos de distracción
 profundidad de 8 mm
 perforatore Ø 1,7 mm
 per viti di distrazione
 profondità 8 mm

19950-14
 145 mm
 5¾"



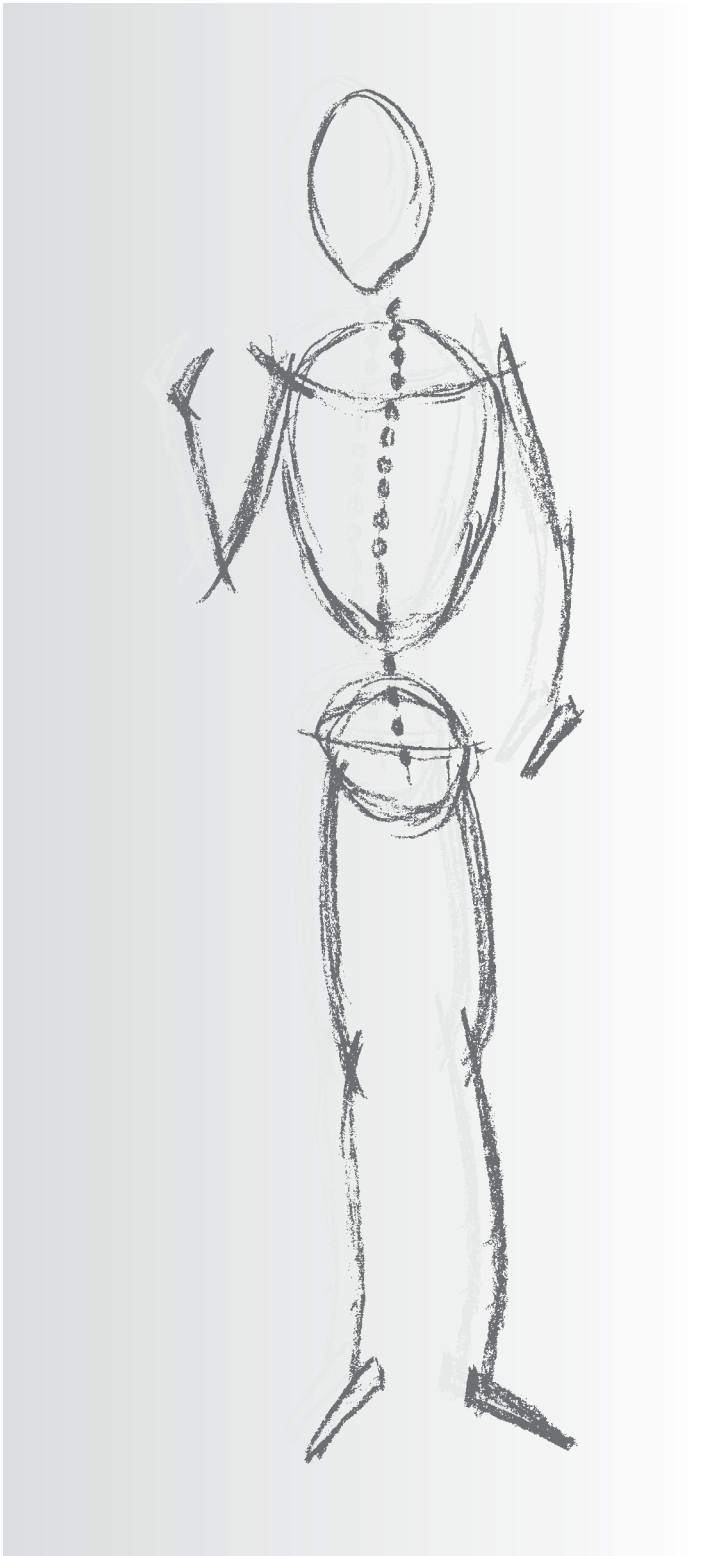
Schraubendreher
 für Distraktionsschrauben
 Screw driver
 for distraction screws
 Atornillador
 para tornillos de distracción
 Cacciavite
 per viti di distrazione

19960-20
 200 mm
 8"



19970-12 12 mm
 19970-14 14 mm
 19970-16 16 mm
 19970-18 18 mm

Distraktionsschrauben
 Distraction screws
 Tornillos de distracción
 Vite distrattore



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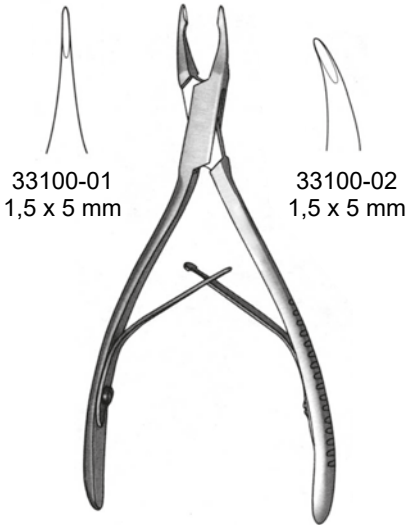
ZANGEN

FORCEPS

PINZAS

PINZE

Hohlmeißelzangen
 Bone Rongeurs
 Pinzas-gubias
 Pinze sgorbie



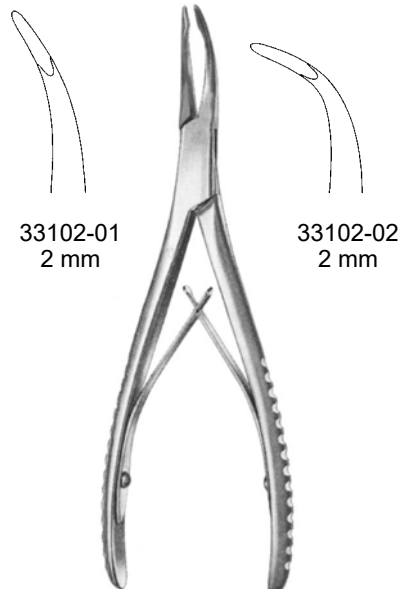
MICRO FRIEDMAN
 14 cm, 5½"



FRIEDMAN Mini
 33101-12 12 cm, 4¾"



FRIEDMAN
 33101-14 14 cm, 5½"



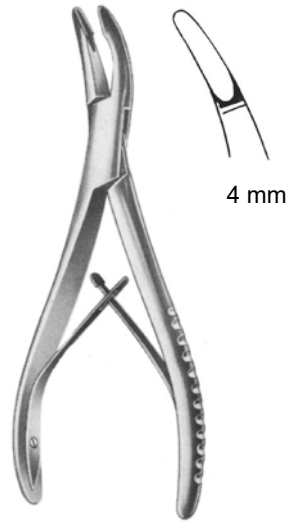
STELLBRINK
 17 cm, 6¾"

Hohlmeißelzangen
 Bone Rongeurs
 Pinzas-gubias
 Pinze sgorbie



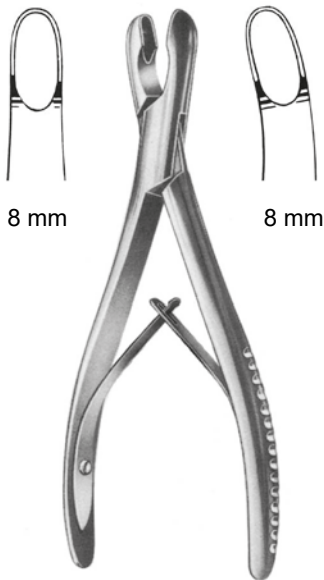
4,5 mm

LUER
 33131-15 15 cm, 5.9"



4 mm

LUER
 33133-15 15 cm, 5.9"



8 mm

8 mm

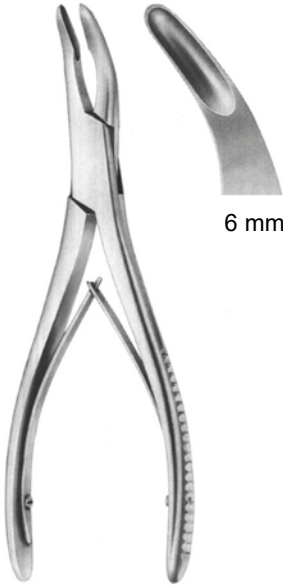
LUER
 33136-17 33137-17
 17 cm, 6 3/4"



9 mm

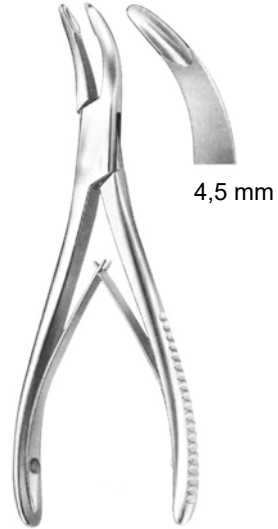
ADSON
 33142-20 33143-20
 20 cm, 7.9"

Hohlmeißelzangen
 Bone Rongeurs
 Pinzas-gubias
 Pinze sgorbie



6 mm

OLIVECRONA
 33147-20 20 cm, 7.9"



4,5 mm

BANE-HARTMANN
 33148-18 17,5 cm, 7"



3 mm

— LEMPERT —
 33150-16 33151-16
 16 cm, 6¼"



5 mm

— JANZEN —
 33152-17 33153-17
 17 cm, 6¾"

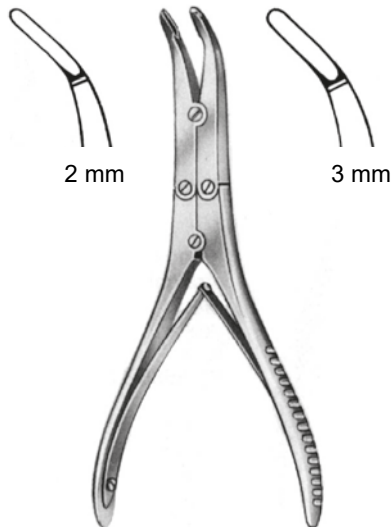
Hohlmeißelzangen
 Bone Rongeurs
 Pinzas-gubias
 Pinze sgorbie



— LEMPERT —
 33154-18 33155-18
 18,5 cm, 7¼"



BEYER
 33156-18
 18 cm, 7"

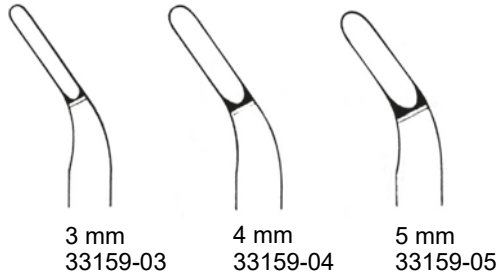
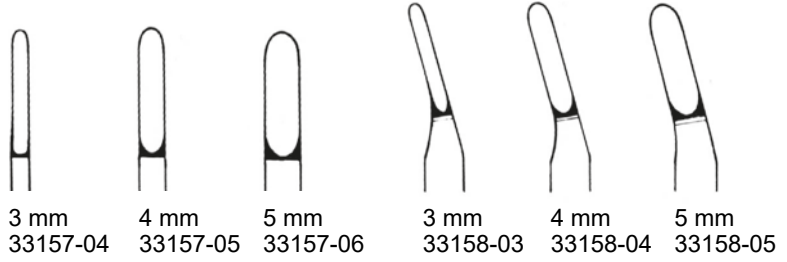


KLEINERT-KUTZ
 33157-02 33157-03
 15 cm, 6"

Hohlmeißelzangen
 Bone Rongeurs
 Pinzas-gubias
 Pinze sgorbie



SMITH-PETERSEN
 24 cm, 9½"



BACON
 33159-20
 20 cm, 8"

Hohlmeißelzangen
 Bone Rongeurs
 Pinzas-gubias
 Pinze sgorbie



BEYER
 33201-18
 18 cm, 7"



MAYFIELD
 33202-18
 18 cm, 7"

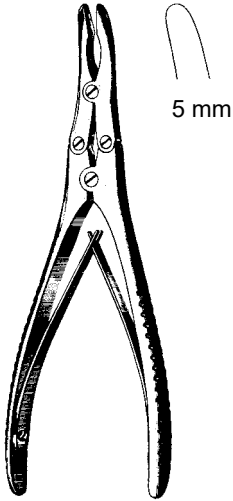


ZAUFAL-JANSEN
 33205-18
 18 cm, 7"

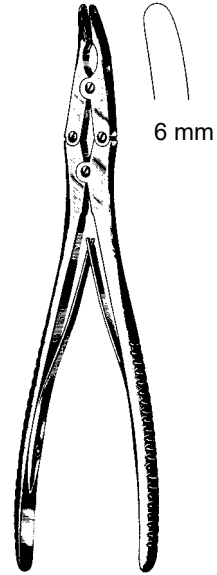


— BÖHLER —
 33211-15 33213-15
 15 cm, 6"

Hohlmeißelzangen
Bone Rongeurs
Pinzas-gubias
Pinze sgorbie



— RUSKIN —
33216-18 33217-18
18 cm, 7"

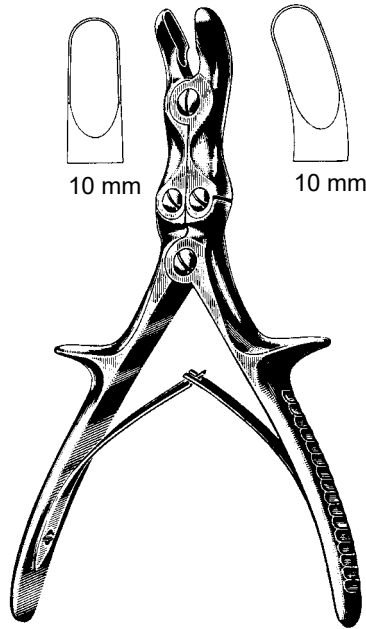


RUSKIN
33219-23 23 cm, 9"

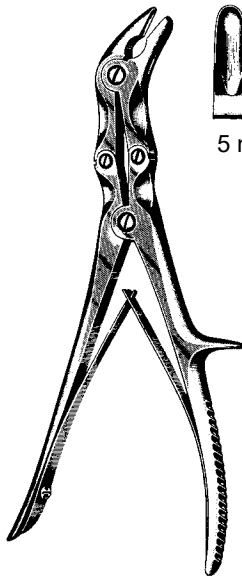


MARQUARDT
33220-20 20 cm, 8"

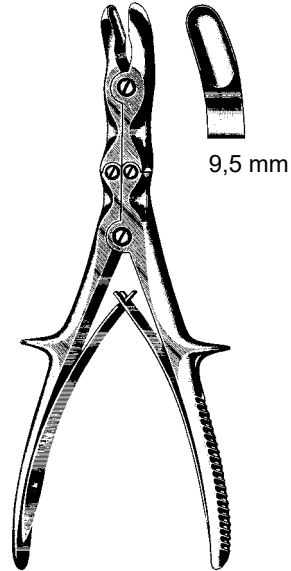
Hohlmeißelzangen
 Bone Rongeurs
 Pinzas-gubias
 Pinze sgorbie



STILLE-LUER
 33230-22 22 cm, 8³/₄" 33231-22
 33230-26 26 cm, 10¹/₄" 33231-26

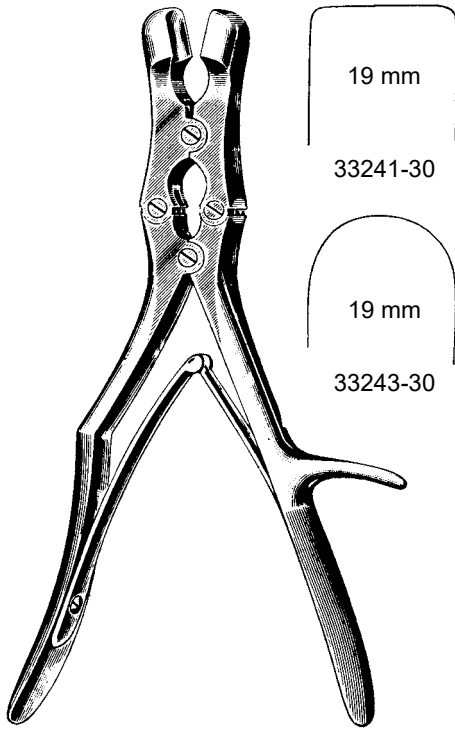


STILLE-LUER
 33235-23
 23 cm, 9"

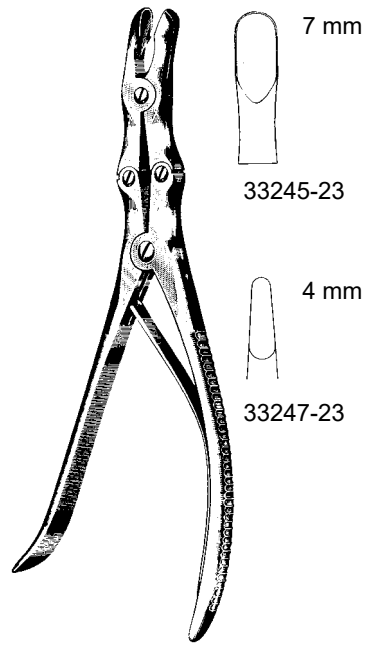


STILLE-RUSKIN
 33237-23
 23 cm, 9"

Hohlmeißelzangen
Bone Rongeurs
Pinzas-gubias
Pinze sgorbie



SAUERBRUCH
30 cm, 11 $\frac{3}{4}$ "



LEKSELL (STILLE)
23 cm, 9"

Hohlmeißelzangen
 Bone Rongeurs
 Pinzas-gubias
 Pinze sgorbie



ECHLIN
 23 cm, 9"



33257-23 2 mm



33258-23 3 mm



33259-23 4 mm



FRYKHOLM
 33260-24
 24 cm, 9½"



4,5 mm

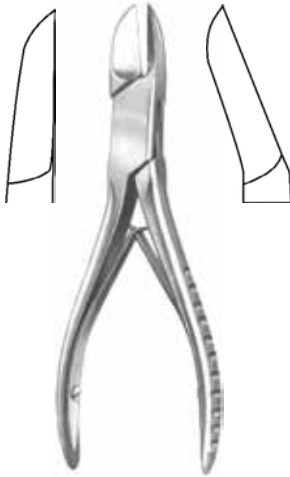


SEMB
 33261-22
 22,5 cm, 8.9"



17 mm

Knochensplitterzangen
 Bone Cutting Forceps
 Pinzas cortantes para huesos
 Cesoie per ossa



— LISTON —

33274-14 14 cm, 5½" 33275-14
 33274-17 17 cm, 6¾" 33275-17
 33274-19 19 cm, 7½" 33275-19



— BÖHLER —

33280-15 33281-15
 15 cm, 6"



COTTLE-KAZANJIAN

33282-19
 19 cm, 7½"



MC INDOE
 33283-17
 17 cm, 6¾"

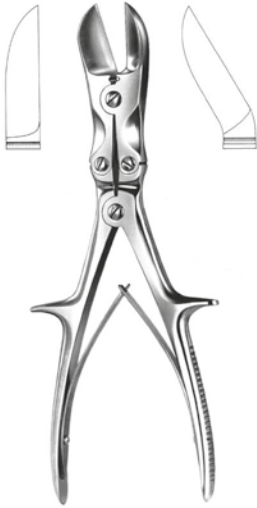


STAMM
 33284-15
 15 cm, 6"



— RUSKIN-LISTON —
 33286-18 33289-18
 18 cm, 7"

Knochensplitterzangen
 Bone Cutting Forceps
 Pinzas cortantes para huesos
 Cesioie per ossa



— STILLE-LISTON —
 33290-23 23 cm, 9" 33291-23
 33290-27 27 cm, 10½" 33291-27



STILLE-LISTON
 33292-26
 26 cm, 10¼"

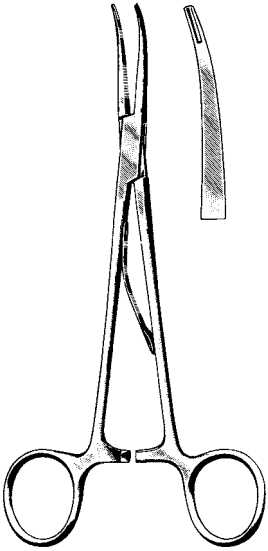


STILLE-HORSLEY
 33293-27
 27 cm, 10½"



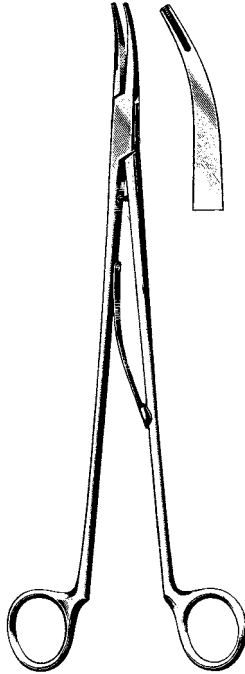
SEMB
 33295-24
 24 cm, 9½"

Anlegezangen, Klammerblock
 Applying Forceps, Clip Rack
 Pinzas aplicadoras, riel para grapas
 Pinza per applicare, porta-fermagli



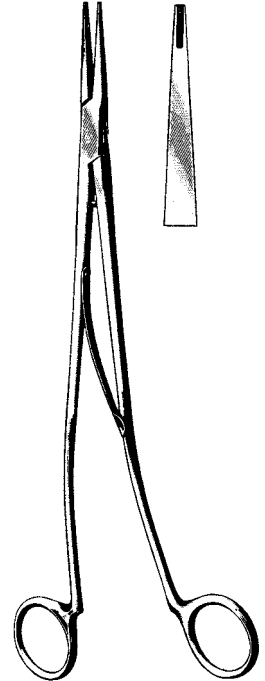
McKENZIE

41011-15 15 cm, 6"
 41011-19 19 cm, 7½"



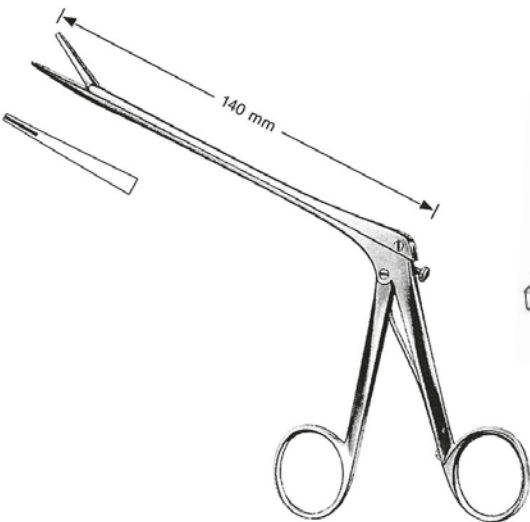
SMITHWICK

41015-23 23 cm, 9"
 41015-26 26 cm, 10¼"

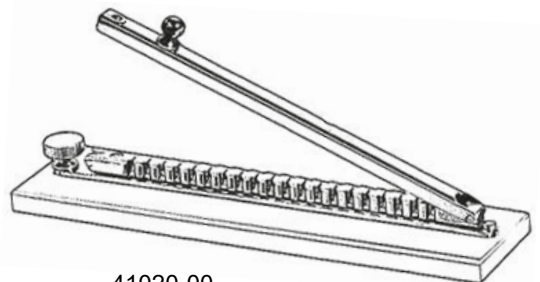


SWEET

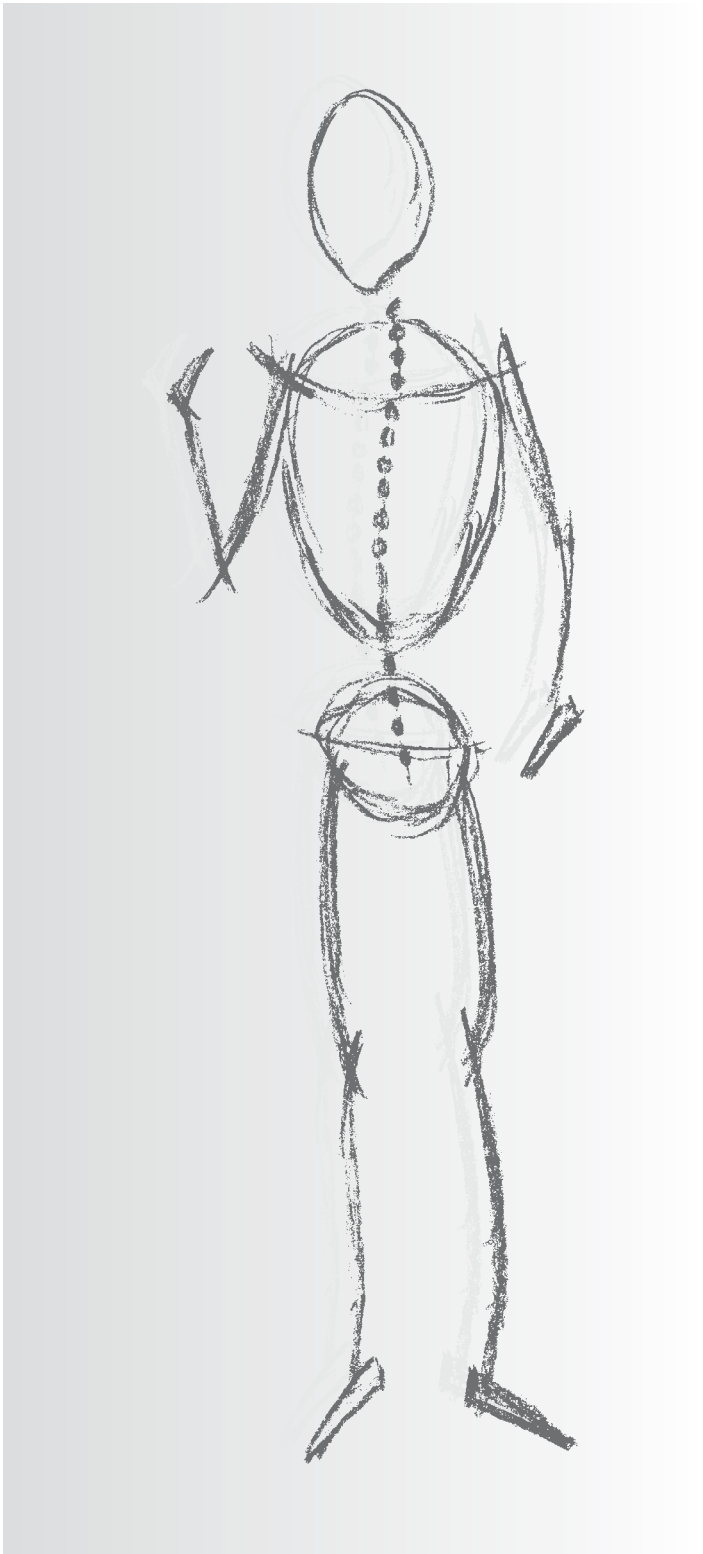
41017-23 23 cm, 9"
 41017-26 26 cm, 10¼"



OLIVECRONA-TOENNIS
 41019-14



41020-00
 148 x 40 x 6 mm



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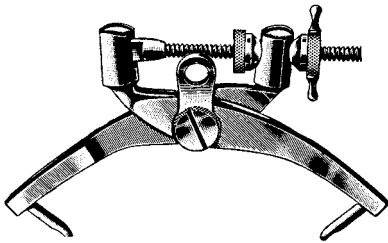
**SCHÄDELHALTER
DRAHTSÄGEN
TREPHINEN**

**SKULL HOLDER
WIRE SAWS
TREPHINE**

**CRÁNEO TITULAR
ALAMBRE DE SIERRAS
TREPANO**

**SKULL TITOLARE
SEGHE A FILO
TRAPANO**

Schädelhalter, Kopfhautklammer, Anlegezange
Cervical Traction Tongs, Clips, Applying Forceps
Pinzas de tracción craneal, Clips, pinza aplicadora para clips
Arco per trazione craniale, Pinza applicatrice



CRUTCHFIELD
41025-01



CRUTCHFIELD
41025-02



41026-35
3,5 mm Ø

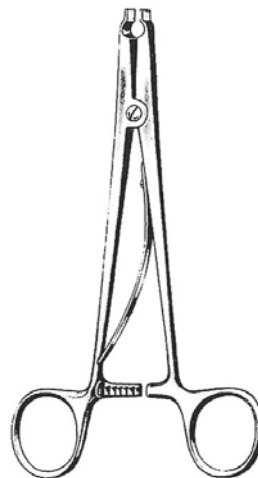


41026-50
5 mm Ø

Stainless steel
Acciaio inox
acero inoxidable



RANEY
41027-00

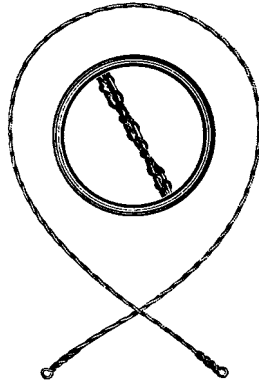


RANEY
41028-00 16 cm, 6¼"

Drahtsägen, Einführungsinstrument
 Wire Saws, Guiding Instruments
 Sierras de hilo de metal, Instrumentos para su introducción
 Seghe di filo d'acciaio, Strumenti introduttori



DeMARTEL
 41090-33
 33 cm, 13"



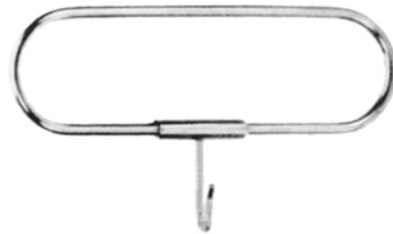
OLIVECRONA	cm
41092-30	30, 11¾"
41092-40	40, 15¾"
41092-50	50, 19¾"
41092-60	60, 23¾"
41092-70	70, 27½"



GIGLI STRULLY
 41093-00



GIGLI
 41094-00



REDA
 41095-00

Schädelzange
Skull Punches
Pinzas sacabocado craneal
Pinza per craniotomia



DeVILBISS
41096-21
21 cm, 8¼"

Schädelstanze
Cranial Punch
Pinzas sacabocado craneal
Pinza per craniotomia



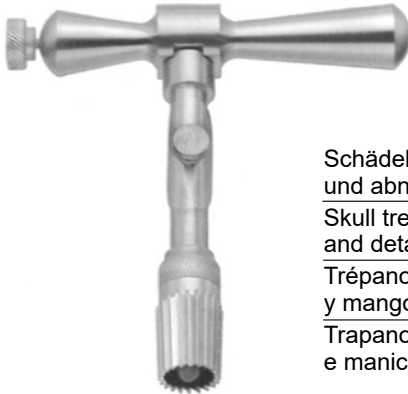
CONE
41097-22
22,5 cm, 9"

Bohrloch-Schutzzange
Bore hole protection Forceps
Pinzas para la protección de orificio
Pinze per la protezione del foro



41098-20
20,5 cm, 8"

Schädeltrephine
Skull Trepine
Trépanos craneales
Trapano cranico



Schädeltrephine mit verstellbarem Dorn
und abnehmbarem Quergriff

Skull trephines with adjustable centering point
and detachable cross-bar handle

Trépano craneal con guía-central ajustable
y mango transversal desmontable

Trapano cranico con punta regolabile
e manico trasversale smontabile

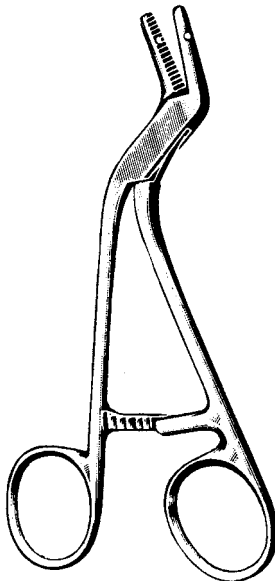
GALT

34816-13 Ø 13 mm

34816-16 Ø 16 mm

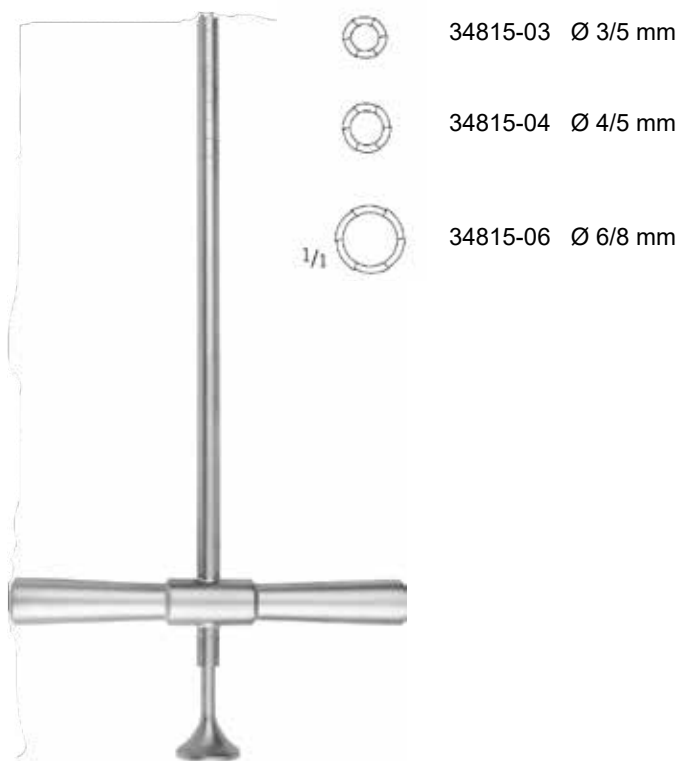
34816-19 Ø 19 mm

Bohrlochzange
Drill Guide and Dura Protecting Forceps
Pinza guía taladros y protectora de duramadre
Pinze guida-perforatore e proteggi dura-madre

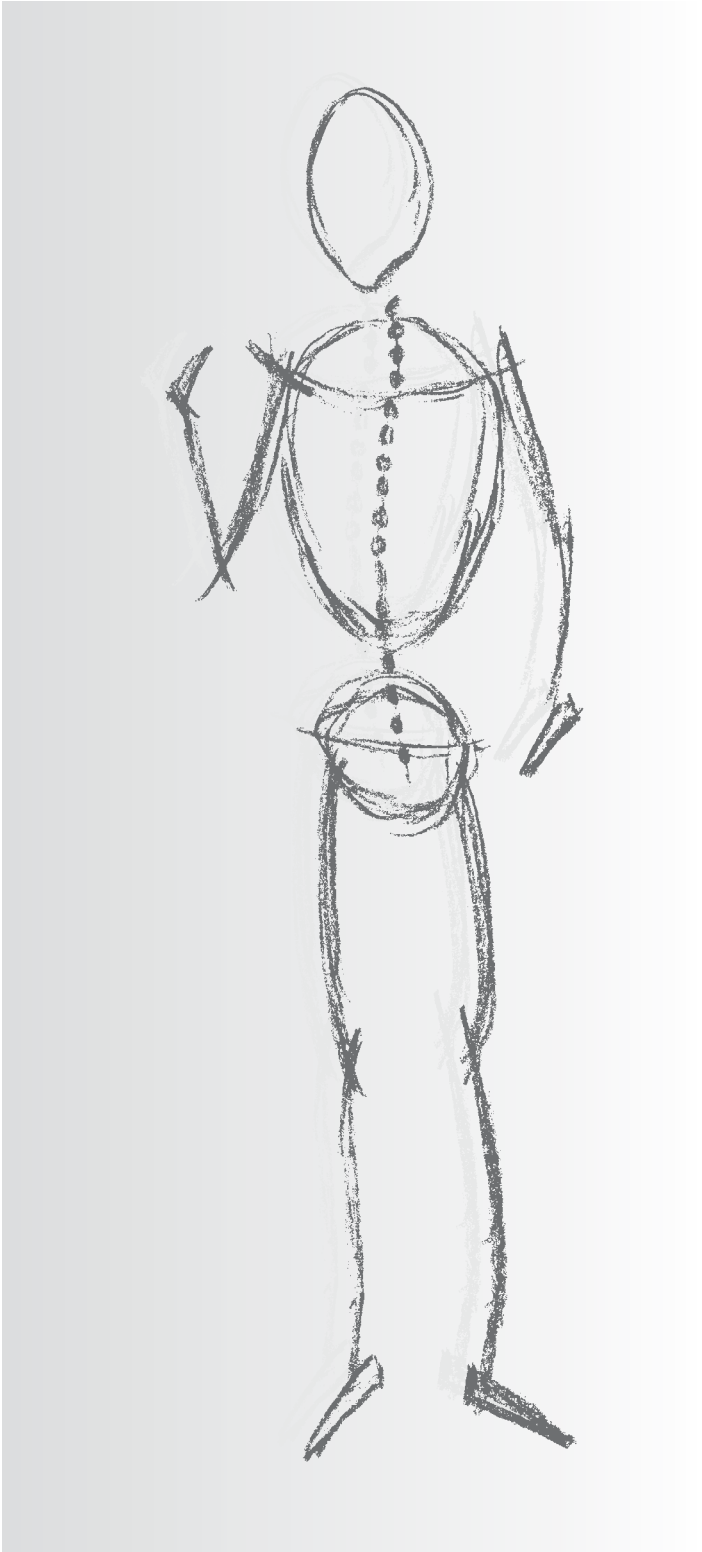


ADSON
34231-15
15 cm, 6"

Trepine
Trepine
Trepano
Punta trapano



MICHELE



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LÖFFEL, MEISSEL

CURETTES, CHISELS

CUCHARILLAS, CINCELES

CUCCHIAI, SCALPELLI

Scharfe Löffel
 Bone Curettes
 Cucharillas cortantes
 Curette taglienti

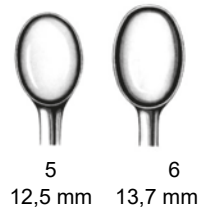
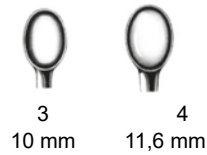
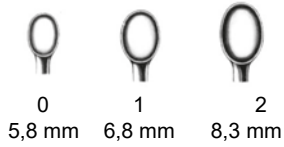


Fig.	
0000	33469-96
000	33469-97
00	33469-98
0	33470-00
1	33470-01
2	33470-02
3	33470-03
4	33470-04
5	33470-05
6	33470-06

VOLKMANN
 17 cm, 6¾"

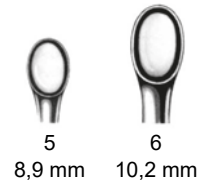
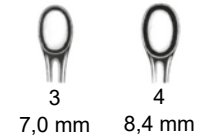
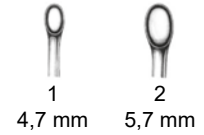
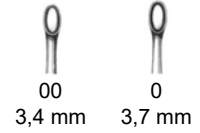
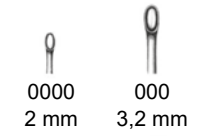


Fig.	
0000	33474-96
000	33474-97
00	33474-98
0	33475-00
1	33475-01
2	33475-02
3	33475-03
4	33475-04
5	33475-05
6	33475-06

SPRATT
 17 cm, 6¾"

Scharfe Löffel
Bone Currettes
Cucharillas cortantes
Curette taglienti



COBB
27,9 cm, 11"

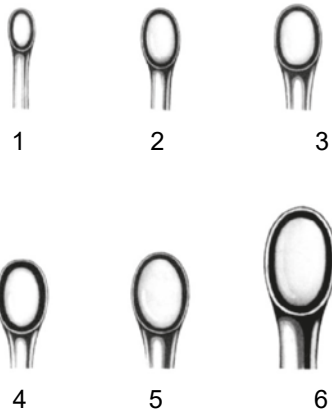
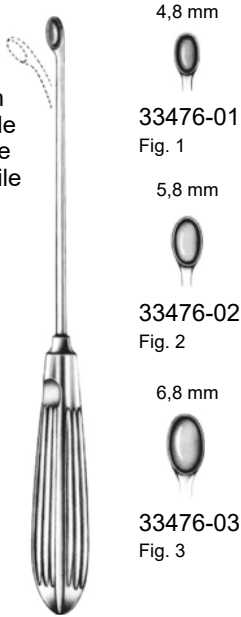


Fig.

1	33473-01	3,5 mm
2	33473-02	4,5 mm
3	33473-03	5,5 mm
4	33473-04	7,5 mm
5	33473-05	8,5 mm
6	33473-06	10,0 mm

Scharfe Löffel
 Bone Currettes
 Cucharillas cortantes
 Curette taglienti

biegsam
 malleable
 maleable
 malleabile

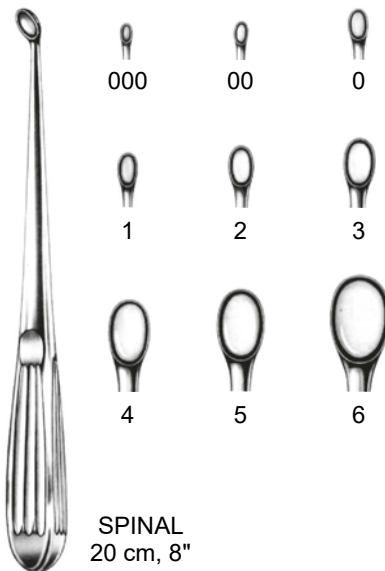


HALLÉ
 21 cm, 8¼"



SPINAL
 20 cm, 8"

Fig.		
000	33476-98	2,8 mm
00	33476-99	3,3 mm
0	33477-00	3,7 mm
1	33477-01	4,3 mm
2	33477-02	4,8 mm
3	33477-03	5,6 mm
4	33477-04	6,1 mm
5	33477-05	6,7 mm
6	33477-06	8,8 mm

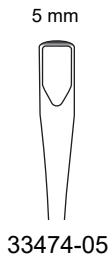
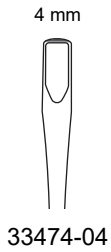


SPINAL
 20 cm, 8"

Fig.		
000	33478-98	2,8 mm
00	33478-99	3,3 mm
0	33479-00	3,7 mm
1	33479-01	4,3 mm
2	33479-02	4,8 mm
3	33479-03	5,6 mm
4	33479-04	6,1 mm
5	33479-05	6,7 mm
6	33479-06	8,8 mm

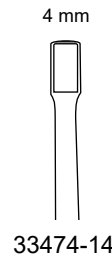
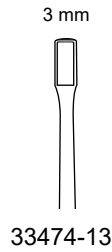
Scharfe Löffel
Bone Curettes
Cucharillas cortantes
Curette taglienti

gezahnt
toothed
dentada
dentate



CASPAR
25 cm, 9³/₄"

gezahnt
toothed
dentada
dentate



CASPAR
27 cm, 10³/₄"

4,7 mm



33482-01

4,7 mm



33482-02

4,7 mm



33482-03



SCOVILLE
25 cm, 9³/₄"

Scharfe Löffel
 Bone Curettes
 Cucharillas cortantes
 Curette taglianti



BRUNS
 23 cm, 9"



BRUNS
 23 cm, 9"

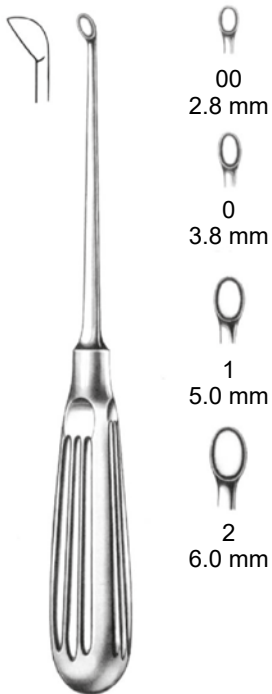


BRUNS
 23 cm, 9"

Fig.

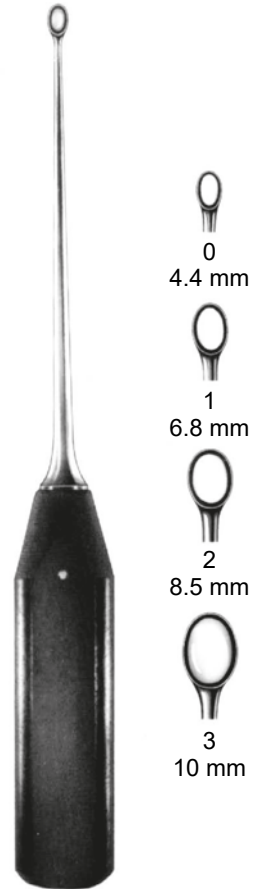
000	33480-97	2,0 mm	33482-97	2,8 mm	33484-97	2,8 mm
00	33480-98	2,5 mm	33482-98	3,3 mm	33484-98	3,3 mm
0	33481-00	3,3 mm	33483-00	3,7 mm	33485-00	3,7 mm
1	33481-01	3,8 mm	33483-01	4,3 mm	33485-01	4,3 mm
2	33481-02	4,8 mm	33483-02	4,8 mm	33485-02	4,8 mm
3	33481-03	5,3 mm	33483-03	5,6 mm	33485-03	5,6 mm
4	33481-04	6,0 mm	33483-04	6,1 mm	33485-04	6,1 mm
5	33481-05	6,7 mm	33483-05	6,7 mm	33485-05	6,7 mm
6	33481-06	7,3 mm	33483-06	8,8 mm	33485-06	8,8 mm

Scharfe Löffel
 Bone Curettes
 Cucharillas cortantes
 Curette taglienti



DAUBENSPECK
 20 cm, 8"

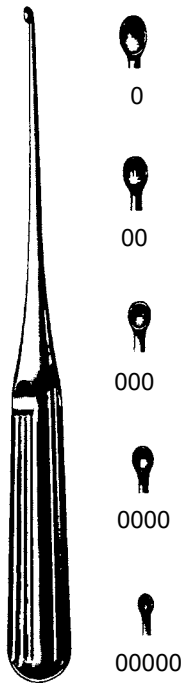
- Fig. 00 33487-99
 0 33488-00
 1 33488-01
 2 33488-02



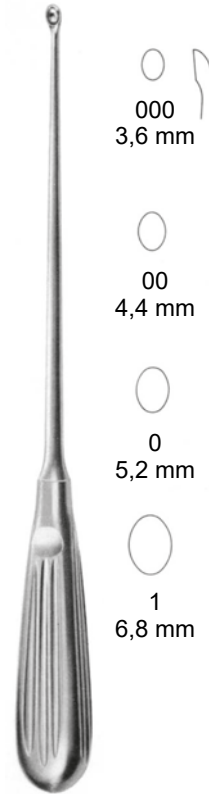
27 cm, 10½"

- Fig. 0 33489-00
 1 33489-01
 2 33489-02
 3 33489-03

Scharfe Löffel
 Bone Currettes
 Cucharillas cortantes
 Curette taglienti



LEMPERT
 17,5 cm, 7"

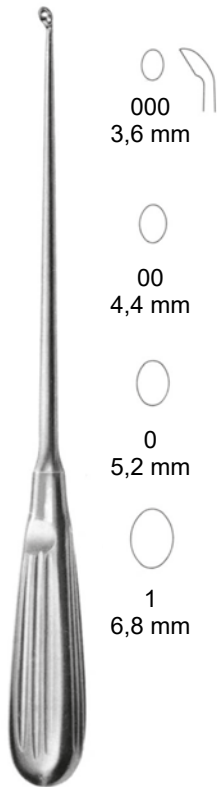


REDA
 25 cm, 10"

Fig. 0	33490-10	3,3 mm
00	33490-20	3,0 mm
000	33490-30	2,7 mm
0000	33490-40	2,4 mm
00000	33490-50	2,0 mm

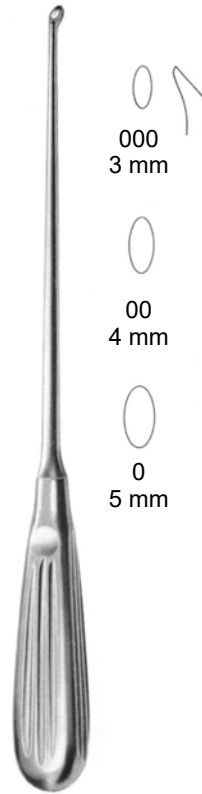
Fig. 000	33491-01
00	33491-02
0	33491-03
1	33491-04

Scharfe Löffel
 Bone Curettes
 Cucharillas cortantes
 Curette taglienti



REDA
 25 cm, 10"

- Fig. 000 33491-05
- 00 33491-06
- 0 33491-07
- 1 33491-08



BUSHE
 25 cm, 10"

- Fig. 000 33500-01
- 00 33500-02
- 0 33500-03

Scharfe Löffel
 Bone Currettes
 Cucharillas cortantes
 Curette taglienti



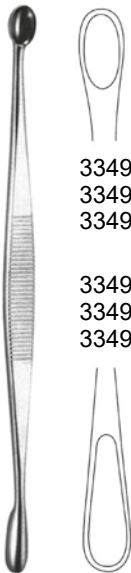
33492-13	6.8 mm
33492-16	9.0 mm
33492-20	11.1 mm

33492-13	6.3 mm
33492-16	7.0 mm
33492-20	9.1 mm



VOLKMANN

33492-13	13 cm, 5 ¹ / ₈ "
33492-16	16 cm, 6 ¹ / ₄ "
33492-20	20 cm, 8"



33494-13	6.4 mm
33494-14	6.6 mm
33494-17	6.8 mm

33494-13	6.3 mm
33494-14	6.9 mm
33494-17	7.3 mm



VOLKMANN

33494-13	13 cm, 5 ¹ / ₈ "
33494-14	14 cm, 5 ¹ / ₂ "
33494-17	17 cm, 6 ³ / ₄ "



5.2 mm

3.5 mm

JANSEN

33495-16	16 cm, 6 ¹ / ₄ "
----------	--

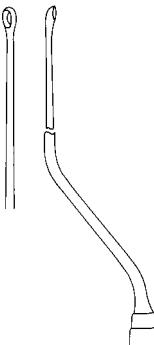
Mikro-Löffel
Micro Scoops
Micro-cucharillas
Micro curette



93430-01 230 mm / 9"
scharf
sharp
cortante
tagliente



93430-02 230 mm / 9"
scharf
sharp
cortante
tagliente



93430-03 185 mm / 7¼" YASARGIL
scharf
sharp
cortante
tagliente

Knochenspanhalter und Einsetzinstrument
Bone graft holder and impactor
Injerto óseo titular y impactador
Sostegno osseo e impattatore



CASPAR
33508-22
220 mm, 8 $\frac{3}{4}$ "

Stößel
Hemostats
Hemostáticos
Pistoni



CASPAR
200 mm, 8"

- 33509-03
Ø 3 mm
- 33509-05
Ø 5 mm
- 33509-08
Ø 8 mm



200 mm, 8"

- 33510-12
Ø 12 mm
- 33510-14
Ø 14 mm
- 33510-16
Ø 16 mm

Flachmeißel, Osteotome, Hohlmeißel
 Chisels, Osteotomes, Gouges
 Cinceles, Osteotomos, Gubias
 Scalpelli, Osteotomi, sgorbie



STILLE
20 cm, 8"



STILLE
20 cm, 8"

6 mm	33630-06	
8 mm	33630-08	
10 mm	33630-10	33631-10
12 mm	33630-12	33631-12
15 mm	33630-15	33631-15
20 mm	33630-20	33631-20
25 mm	33630-25	33631-25
30 mm	33630-30	33631-30



STILLE
20 cm, 8"



STILLE
20 cm, 8"



STILLE
20 cm, 8"

6 mm	33632-06	33633-06	33634-06
8 mm	33632-08	33633-08	33634-08
10 mm	33632-10	33633-10	33634-10
12 mm	33632-12	33633-12	33634-12
15 mm	33632-15	33633-15	33634-15
20 mm	33632-20	33633-20	33634-20
25 mm	33632-25	33633-25	33634-25
30 mm	33632-30	33633-30	33634-30

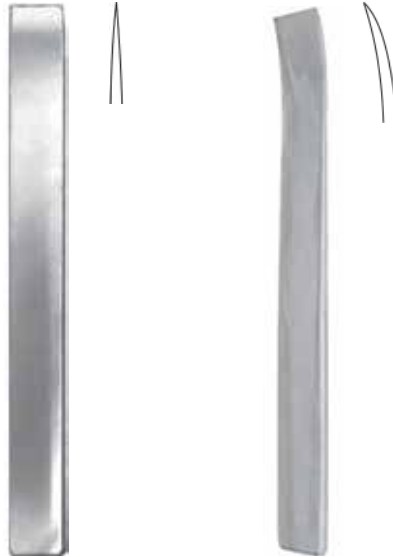
Osteotome, Hohlmeißel
 Osteotomes, Gouges
 Osteotomos, Gubias
 Osteotomi, sgorbie



SMITH-PETERSEN
 20 cm, 8"

6 mm	33644-06	33645-06	33647-06	
9 mm	33644-09	33645-09	33647-09	33649-09
13 mm	33644-13	33645-13		
14 mm			33647-14	33649-14
16 mm	33644-16	33645-16	33647-16	33649-16
19 mm	33644-19	33645-19	33647-19	33649-19
25 mm	33644-25	33645-25	33647-25	33649-25
32 mm	33644-32	33645-32	33647-32	33649-32

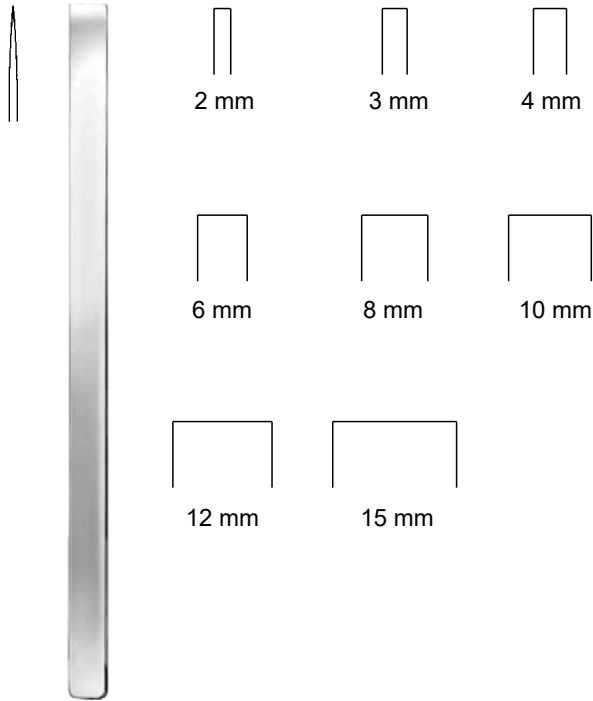
Osteotome
 Osteotomes
 Osteotomos
 Osteotomi



LAMBOTTE

24 cm, 9½"		24 cm, 9½"	
33650-04	4 mm	33651-04	
33650-06	6 mm	33651-06	
33650-08	8 mm	33651-08	
33650-10	10 mm	33651-10	
33650-13	13 mm	33651-13	
33650-16	16 mm	33651-16	
33650-18	18 mm	33651-18	
33650-20	20 mm	33651-20	
33650-25	25 mm	33651-25	
33650-30	30 mm	33651-30	
33650-38	38 mm	33651-38	
33650-44	44 mm	33651-44	
33650-50	50 mm	33651-50	

Osteotome
 Osteotomes
 Osteotomos
 Mini Osteotomi



MINI-LAMBOTTE

	12,5 cm, 5"		17 cm, 6¾"
33654-02	2 mm	33652-02	
33654-03	3 mm	33652-03	
33654-04	4 mm	33652-04	
33654-06	6 mm	33652-06	
33654-08	8 mm	33652-08	
33654-10	10 mm	33652-10	
33654-12	12 mm	33652-12	
33654-15	15 mm	33652-15	

Hohlmeißel mit Ferrozellgriff
Gouges with Ferrozell-Handle
Gubias con mango de Ferrozell
Sgorbie con manico di Ferrozell

8 mm



COBB
28 cm, 11"
33656-28

8 mm



COBB
28 cm, 11"
33657-28

8 mm



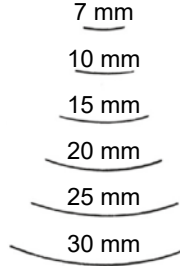
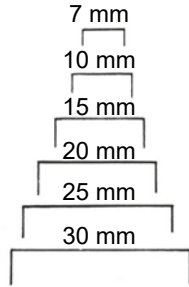
COBB
28 cm, 11"
33658-28

8 mm



COBB
28 cm, 11"
33659-28

Osteotome, Hohlmeißel mit Ferrozell-Griff
 Osteotomes, Gouges with Ferrozell-Handle
 Osteotomos, Gubias con mango de Ferrozell
 Sgorbie, Osteotomo, con manico di Ferrozell

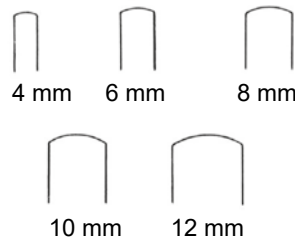
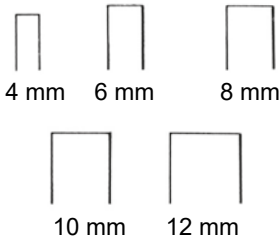


33660-07	7 mm	33661-07
33660-10	10 mm	33661-10
33660-15	15 mm	33661-15
33660-20	20 mm	33661-20
33660-25	25 mm	33661-25
33660-30	30 mm	33661-30

Auch mit Peek Griff verfügbar!
 Also available with Peek handle!
 Tambien disponible con mango Peek!
 Anche disponibile con impugnatura Peek!

LEXER
 22 cm, 8³/₄"

LEXER
 22 cm, 8³/₄"



33664-04	4 mm	33665-04
33664-06	6 mm	33665-06
33664-08	8 mm	33665-08
33664-10	10 mm	33665-10
33664-12	12 mm	33665-12

LEXER MINI
 18 cm, 7"

LEXER MINI
 18 cm, 7"

Flachmeißel, Hohlmeißel
Chisels, Gouges
Cinceles, Gubias
Scalpelli, sgorbie



33665-24
24,5 cm, 9¾"

33665-26
26,5 cm, 10½"

ZIELKE
23 cm, 9"
33665-55 5,5 mm
33665-90 9,0 mm

33666-22
22 cm, 8¾"

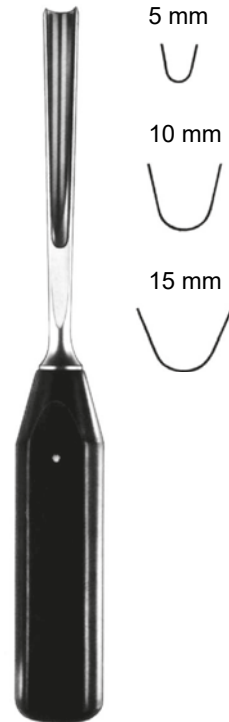
Meißel
Gouges
Gubias
Sgorbie

Wirbelsäulenmeißel
Lamina gouge
Gubias para la columna vertebral
Sgorbie per la colonna vertebrale



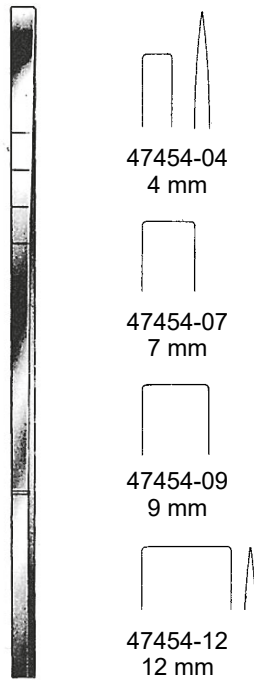
CAPENER
23,5 cm, 9¼"
33667-06 6 mm
33667-08 8 mm
33667-11 11 mm
33667-16 16 mm

Hohlmeißel mit NOVOTEX-Griff
Gouges with NOVOTEX-Handle
Gubias con mango de NOVOTEX
Sgorbie con manico di NOVOTEX

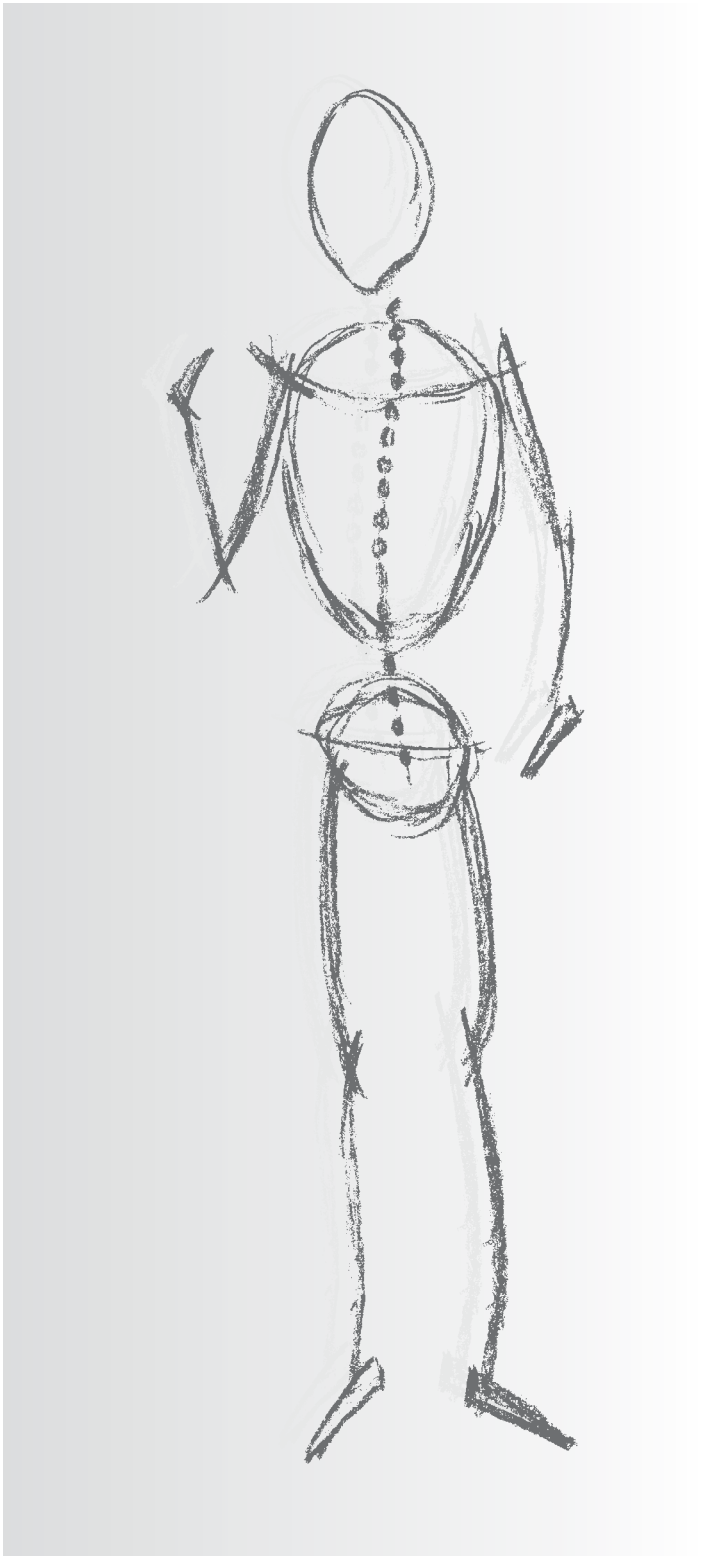


— 25 cm, 10" —
33669-05 5 mm 33670-05
33669-10 10 mm 33670-10
33669-15 15 mm 33670-15

Septum Osteotom
Rhinoplastic Osteotome
Osteotomos para la plástica nasal
Osteotomo per plastica nasale



COTTLE
18 cm, 7"



Reda Instrumente GmbH
Gänsäcker 34 - P.O. Box 131
D-78532 Tuttlingen

**ELEVATORIEN
RASPATORIEN
DISSEKTOREN**

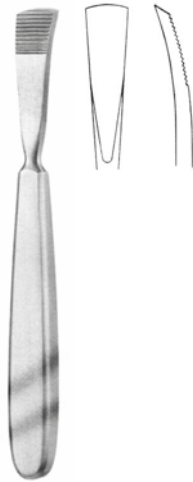
**ELEVATORS
RASPATORIES
DISSECTORS**

**ELEVADORES
PERIOSTÓTOMOS
DISECTORES**

**ELEVATORI
PERIOSTOTOMI
DISSETTORI**

Elevatorien, Raspatorien, Dissektoren
Elevators, Raspatories, Dissectors
Elevadores, Periostótomos, Disectores
Elevatori, Periostotomi, Dissettori

15 mm



JANSEN
33701-16
16,5 cm, 6½"

12,5 mm



FARABEUF
33702-15
15 cm, 5.9"

12,5 mm



FARABEUF
33703-15
15 cm, 5.9"

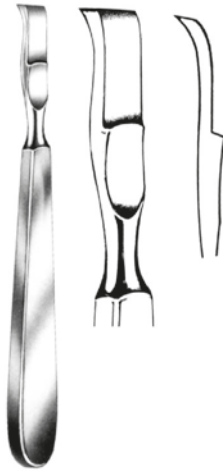
11 mm



FARABEUF-COLLIN
33704-01
15,5 cm, 6"

Elevatoren, Raspatorien, Dissektoren
 Elevators, Raspatories, Dissectors
 Elevadores, Periostótomos, Disectores
 Elevatori, Periostotomi, Dissettori

11 mm



FARABEUF-COLLIN
 33704-02
 15,5 cm, 6"



LAMBOTTE
 21 cm, 8¼"
 33705-05 5 mm
 33705-10 10 mm
 33705-15 15 mm
 33705-20 20 mm
 33705-25 25 mm

18 mm



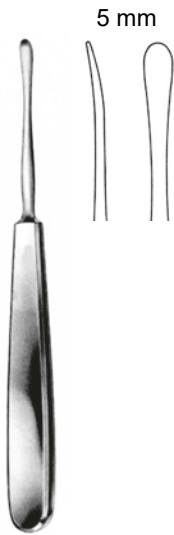
SEDILLOT
 33706-18
 18 cm, 7"

6 mm

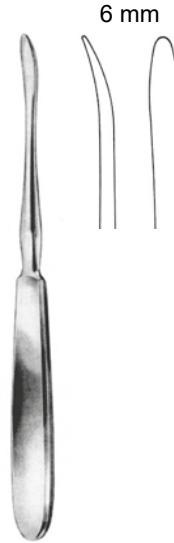


**CUSHING
 (LITTLE-JOKER)**
 33707-15
 15 cm, 5.9"

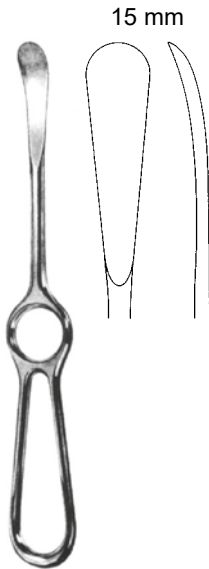
Elevatoriën, Raspatoriën, Dissektoren
 Elevators, Raspatories, Dissectors
 Elevadores, Periostótomos, Disectores
 Elevatori, Periostotomi, Dissettori



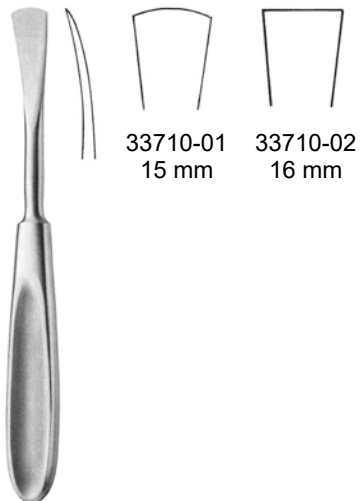
SEBILLEAU
 33707-17
 17,5 cm, 7"



QUERVAIN
 33708-19
 19,5 cm, 7¾"



SEDILLOT
 33709-21
 21 cm, 8¼"



CUSHING
 18 cm, 7"

Elevatoren, Raspatorien, Dissektoren
 Elevators, Raspatories, Dissectors
 Elevadores, Periostótomos, Disectores
 Elevatori, Periostotomi, Dissettori

halbscharf
 semi-sharp
 semi agudo
 semiacuto



HOEN
 18 cm, 7"



7 mm

33710-07



15 mm

33710-15



20 mm

33710-20

16 mm



LANGENBECK
 33710-19
 19 cm, 7½"

14 mm



LANGENBECK
 33711-18
 18 cm, 7"



LANGENBECK
 20 cm, 8"
 33711-20 8 mm
 33711-21 10 mm

Elevatorien, Raspatorien, Dissektoren
 Elevators, Raspatories, Dissectors
 Elevadores, Periostótomos, Disectores
 Elevatori, Periostotomi, Dissettori

4 mm



WILLIGER
 33711-16
 16 cm, 6¼"

6,5 mm



WILLIGER
 33712-16
 16 cm, 6¼"

5 mm



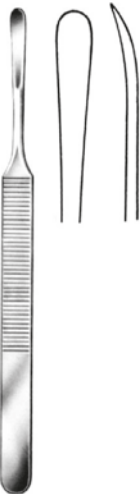
WILLIGER
 33713-16
 16 cm, 6¼"

5,5 mm



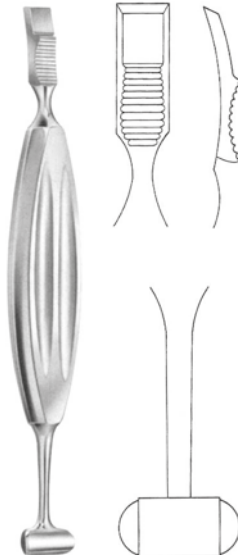
WILLIGER
 33713-17
 17 cm, 6¾"

5 mm

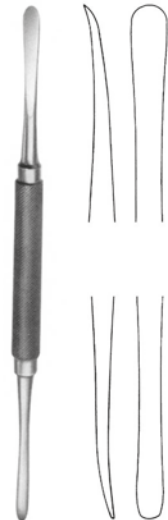


KÖNIG
 33714-15
 15,5 cm, 6"

12 mm

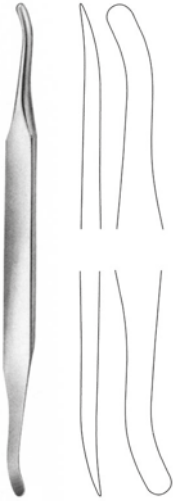


ALEXANDER
 33715-20
 21 cm, 8¼"

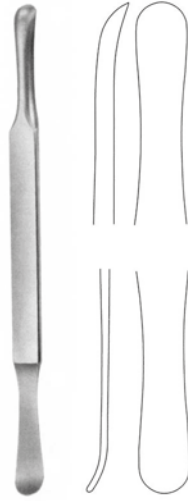


MOLT
 33716-18
 18 cm, 7"

Elevatori, Raspatori, Dissektoren
Elevators, Raspatories, Dissectors
Elevadores, Periostótomos, Disectores
Elevatori, Periostotomi, Dissettori



SELDIN
33717-19-01
19,5 cm, 7¾"



SELDIN
33717-19-02
19,5 cm, 7¾"

4 mm



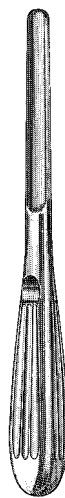
JOSEPH
33718-16
16 cm, 6¼"

4 mm



FOMON
33719-17
17 cm, 6¾"

9 mm

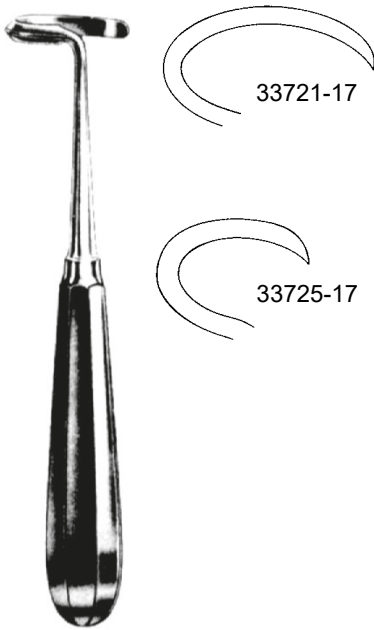


BOIES
33720-19
19 cm, 7½"

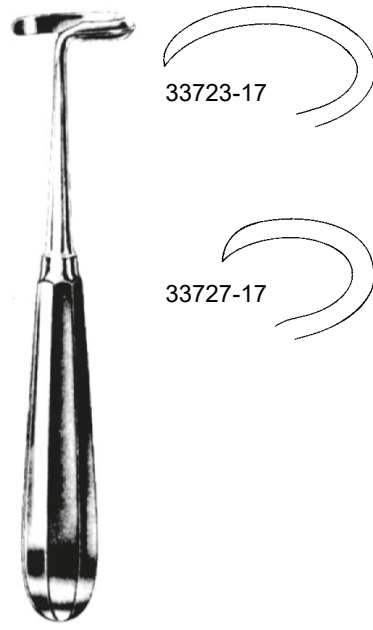
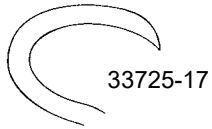


GORNEY
33720-21
21 cm, 8¼"

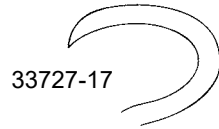
Elevatoren, Raspatorien, Dissektoren
Elevators, Raspatories, Dissectors
Elevadores, Periostótomos, Disectores
Elevatori, Periostotomi, Dissettori



DOYEN
17 cm, 6¾"



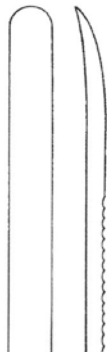
DOYEN
17 cm, 6¾"



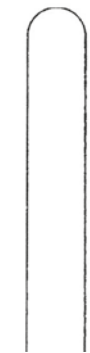
Elevatoren, Raspatorien, Dissektoren
Elevators, Raspatories, Dissectors
Elevadores, Periostótomos, Disectores
Elevatori, Periostotomi, Dissettori



17 cm, 6¾"



33722-06
6 mm



33722-08
8 mm

Hohlheft
hollow handle
mango hueco
manico vuoto



33728-24

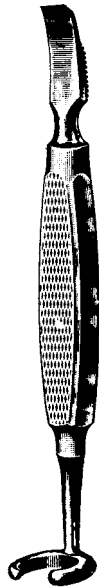


33729-24

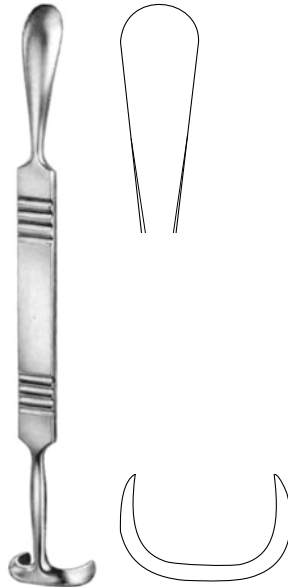


DOYEN
24 cm, 9½"

Elevatorien, Raspatorien, Dissektoren
Elevators, Raspatories, Dissectors
Elevadores, Periostótomos, Disectores
Elevatori, Periostotomi, Dissettori



MATSON-ALEXANDER
33731-22
22 cm, 8 $\frac{3}{4}$ "



MATSON
33733-22
22 cm, 8 $\frac{3}{4}$ "

Elevatorien, Raspatorien, Dissektoren
 Elevators, Raspatories, Dissectors
 Elevadores, Periostótomos, Disectores
 Elevatori, Periostotomi, Dissettori



33740-19
 19 cm, 7½"



33741-18
 18,5 cm, 7¼"



33742-18
 18,5 cm, 7¼"



33743-18
 18,5 cm, 7¼"

Auch mit Peek Griff verfügbar!
 Also available with Peek handle!
 Tambien disponible con mango Peek!
 Anche disponibile con impugnatura Peek!

Elevatoren, Raspatorien, Dissektoren
 Elevators, Raspatories, Dissectors
 Elevadores, Periostótomos, Disectores
 Elevatori, Periostotomi, Dissettori



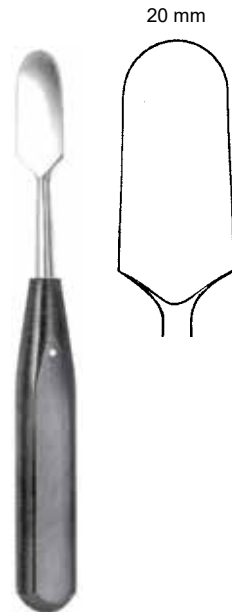
33745-19
 18,5 cm, 7¼"



33746-19
 19,5 cm, 7¾"



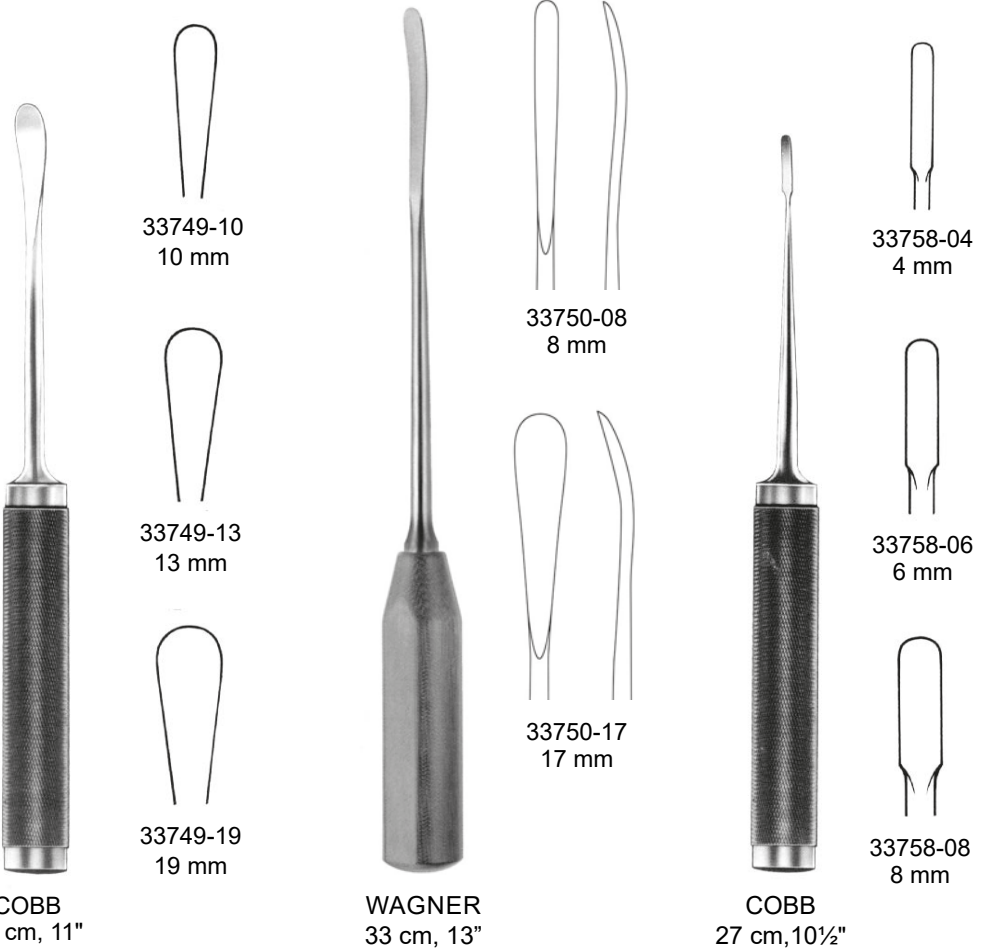
33747-18
 18,5 cm, 7¼"



33748-20
 20 cm, 8"

Auch mit Peek Griff verfügbar!
 Also available with Peek handle!
 También disponible con mango Peek!
 Anche disponibile con impugnatura Peek!

Elevatoren, Raspatorien, Dissektoren
 Elevators, Raspatories, Dissectors
 Elevadores, Periostótomos, Disectores
 Elevatori, Periostotomi, Dissettori



mit NOVOTEX-Kunststoffgriff
 with NOVOTEX plastic handle
 con mango de materia plástica NOVOTEX
 con manico di materia plastica NOVOTEX

Elevatorien, Raspatorien, Dissektoren
 Elevators, Raspatories, Dissectors
 Elevadores, Periostótomos, Disectores
 Elevatori, Periostotomi, Dissettori



ADSON
 17 cm, 6¾"



33754-17



33755-17



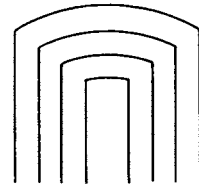
33756-17



33757-17

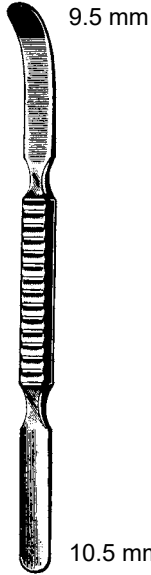


KEY
 33759-06 - 33759-25
 19 cm, 7½"

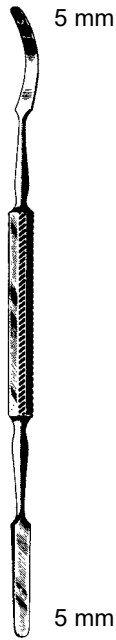


33759-06	6 mm
33759-12	12 mm
33759-19	19 mm
33759-25	25 mm

Elevatoren, Raspatorien, Dissektoren
 Elevators, Raspatories, Dissectors
 Elevadores, Periostótomos, Disectores
 Elevatori, Periostotomi, Dissettori



WATSON-CHEYNE
 33765-17
 17,5 cm, 7"



MC DONALD
 33767-19
 19 cm, 7½"

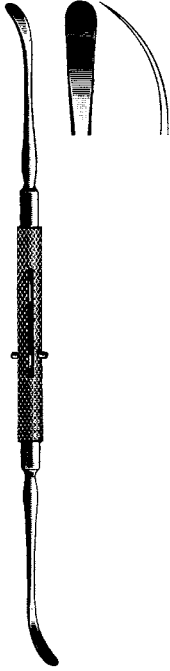


JOSEPH
 47411-16
 16 cm, 6¼"

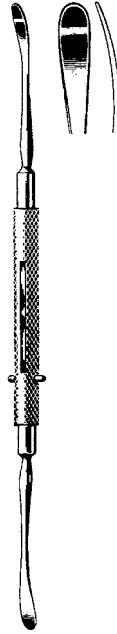


SEWALL
 47412-20
 20 cm, 8"

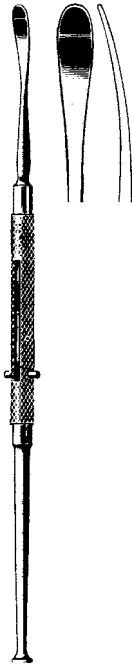
Elevatoren, Raspatorien, Dissektoren
Elevators, Raspatories, Dissectors
Elevadores, Periostótomos, Disectores
Elevatori, Periostotomi, Dissettori



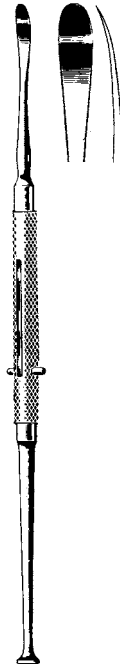
ROGER
47413-19
19 cm, 7½"



FREER
47415-18
18 cm, 7"



FREER
47417-19
19 cm, 7½"



FREER
47419-19
19 cm, 7½"

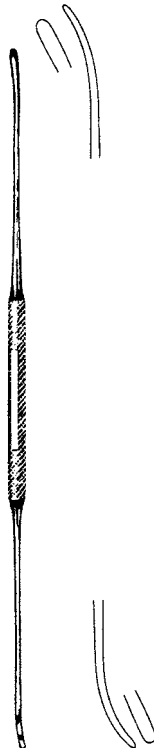
Dura Dissektoren
Dura Dissectors
Disectores para duramadre
Dissettori per dura-madre



SACHS
41143-21
21 cm, 8¼"



TOENNIS
41141-25
25 cm, 10"

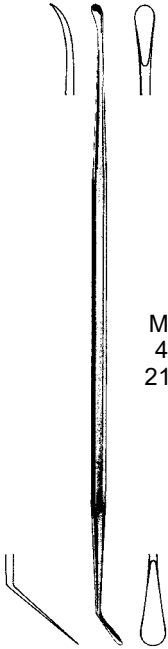


OLIVECRONA
41146-18 18 cm, 7"
41146-24 24 cm, 9½"

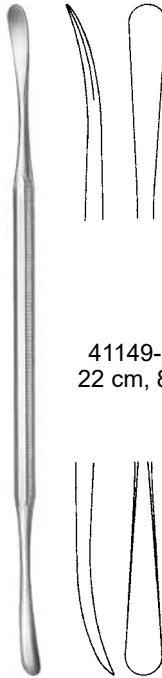


DAVIS
41142-19
19 cm, 7½"

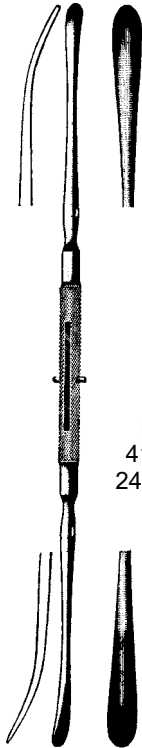
Dura Dissektoren
Dura Dissectors
Disectores para duramadre
Dissettori per dura-madre



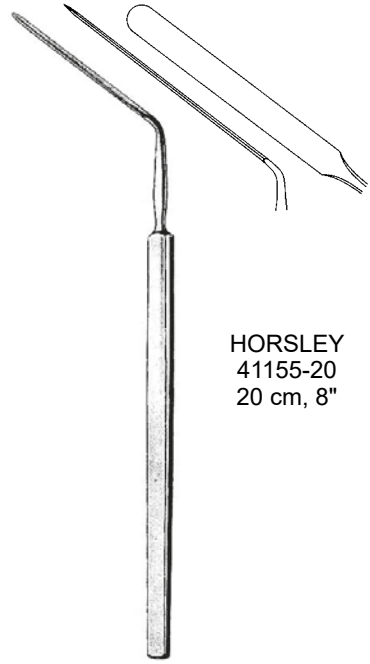
MILLIGAN
41147-21
21 cm, 8 $\frac{1}{4}$ "



41149-22
22 cm, 8 $\frac{3}{4}$ "



DAVIS
41151-24
24 cm, 9 $\frac{1}{2}$ "

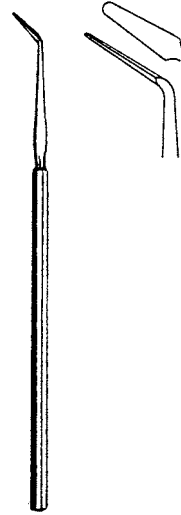


HORSLEY
41155-20
20 cm, 8"

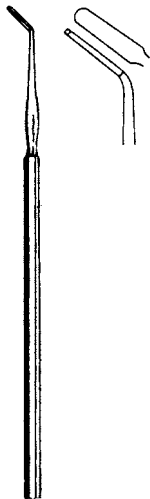
Dura Dissektoren
Dura Dissectors
Disectores para duramadre
Dissettori per dura-madre



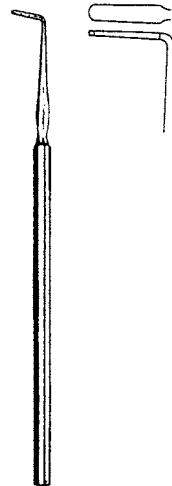
WOODSON
41156-18
18 cm, 7"



FRAZIER
41158-01
15 cm, 6"

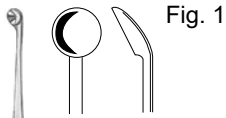


HOEN
41158-02
15 cm, 6"




HOEN
41158-03
15 cm, 6"

Dissektoren, doppelendig
 Dissectors, double ended
 Disectores, de doble extremo
 Dissettori, doppio



PENFIELD
 41161-01
 175 mm, 7"




 **Fig. 2**



PENFIELD
 41161-02
 195 mm, 7¾"



 **Fig. 3**



PENFIELD
 41161-03
 195 mm, 7¾"



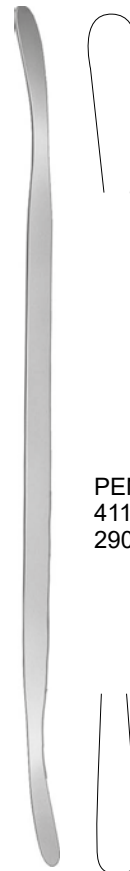
Fig. 4



PENFIELD
 41161-04
 205 mm, 8"



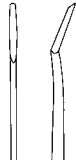
Fig. 5



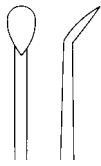
PENFIELD
 41161-05
 290 mm, 11½"



Mikro-Raspatorien
 Micro-Raspatories
 Legras para micro-cirugía
 Micro periostotomi



93410-01 185 mm / 7¼" YASARGIL



93410-02 185 mm / 7¼" YASARGIL

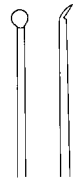


93410-03 185 mm / 7¼" YASARGIL



93410-05 185 mm / 7¼" YASARGIL

2,0 mm



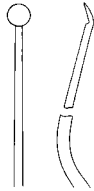
93410-06 230 mm / 9"
 plattenförmig
 round blade
 redondo
 rotondo piatto

3,0 mm

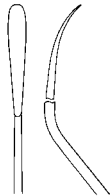


93410-07 230 mm / 9"
 plattenförmig
 round blade
 redondo
 rotondo piatto

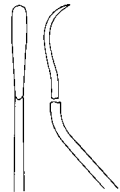
Mikro-Raspatorien
Micro-Raspatories
Legras para micro-cirugía
Micro periostotomi



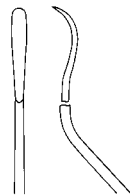
93420-01 230 mm / 9"



93420-02 185 mm / 7¼" YASARGIL



93420-03 185 mm / 7¼" YASARGIL



93420-04 185 mm / 7¼" YASARGIL

Mikro-Dissektoren
Micro Dissectors
Micro dissectores
Micro scollatori



4,5 mm



CASPAR
93480-23
230 mm / 9"

1,0 mm



CASPAR
93481-20
200 mm / 8"

1,4 mm



93482-23
230 mm / 9"

2,0 mm



93483-23
230 mm / 9"

1,8 mm



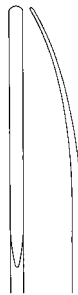
93484-23
230 mm / 9"

3,0 mm



93485-18
185 mm / 7 1/4"

3,0 mm

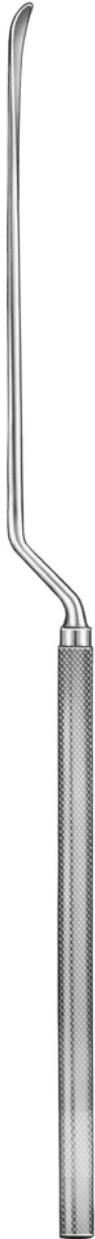


93486-21
215 mm / 8 1/4"



YASARGIL
93487-18
185 mm / 7 1/4"

Mikro-Dissektoren
 Micro Dissectors
 Micro dissectores
 Micro scollatori



93490-01 230 mm / 9" CASPAR



93490-02 230 mm / 9" CASPAR



93490-03 210 mm / 8¼" CASPAR



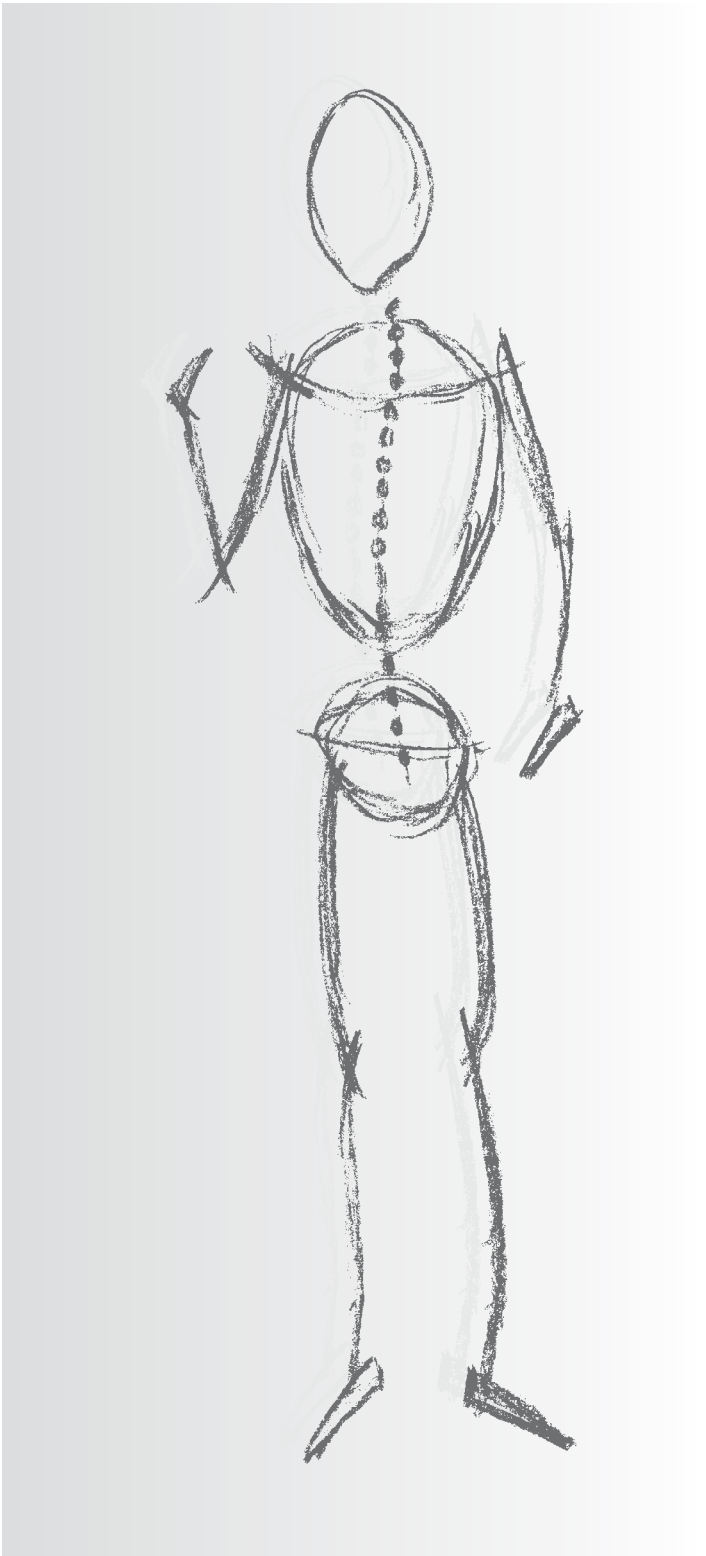
93490-04 210 mm / 8¼" CASPAR



93490-05 230 mm / 9"



93490-06 230 mm / 9"



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D-78532 Tuttlingen

SAUGROHRE

SUCTION TUBES

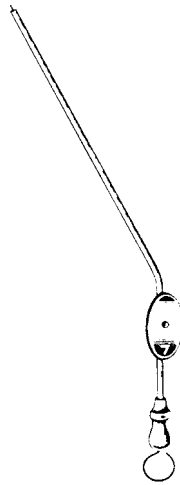
TUBOS DE ASPIRACIÓN

TUBI D'ASPIRAZIONE

Saugrohre
Suction Tubes
Tubos de aspiración
Tubi aspirazioni



ADSON
41290-21
21 cm, 8¼"
ø 4 mm



BARON
16 cm, 6¼"
41299-03 3FR 1,0 mm
41299-05 5FR 1,6 mm
41299-07 7FR 2,3 mm



FERGUSON
41294-40
18 cm, 7"
ø 4 mm, 90°

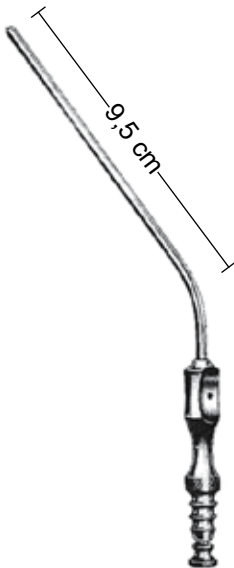
isoliert
insolated
aislado
isolato

Punktionskanüle, Saugrohre
 Puncture Cannulas, Suction Tubes
 Tubo de punción, Tubos de aspiración
 Cannula per punzione, Tubi aspirazioni,



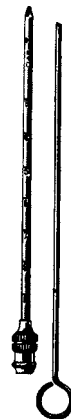
Arbeitslänge Working Length Longitud de trabajo Lunghezza di lavoro	13 cm, /5 $\frac{1}{8}$ "	16 cm, /6 $\frac{1}{4}$ "	20 cm, /7 $\frac{1}{8}$ "
Gesamtlänge Total Length Longitud total Lunghezza totale	19,5 cm, /7 $\frac{3}{4}$ "	24,5 cm, /8 $\frac{1}{2}$ "	28 cm, /11"
Charr. F.G.	8	10	12
	41295-08-13	41295-10-13	41295-12-13
	41295-08-16	41295-10-16	41295-12-16
	41295-08-20	41295-10-20	41295-12-20

FERGUSSON



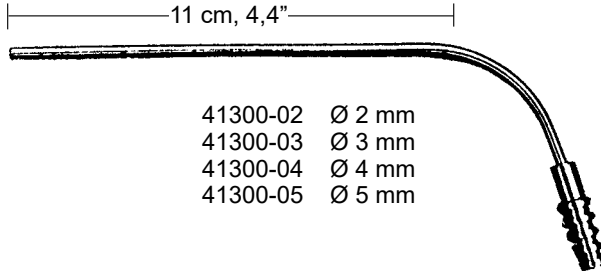
Charr.	30°	75°
F.G.	4	5
	41295-04	41295-05
	6	7
	41295-06	41295-07
	8	9
	41295-08	41295-09
	10	11
	41295-10	41295-11
	12	15
	41295-12	41295-15

FRAZIER/FERGUSSON
 41295-04 – 41297-15
 19 cm, 7 $\frac{1}{2}$ "

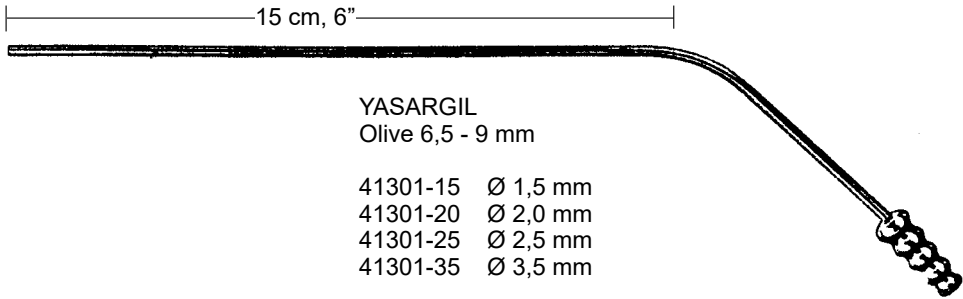


FRAZIER/FERGUSSON
 41298-12
 12 cm, 4 $\frac{3}{4}$ " / 3 mm

Saugrohre
Suction Tubes
Tubos de aspiración
Tubi aspirazioni

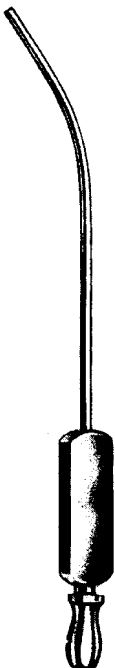


- 41300-02 Ø 2 mm
- 41300-03 Ø 3 mm
- 41300-04 Ø 4 mm
- 41300-05 Ø 5 mm



YASARGIL
Olive 6,5 - 9 mm

- 41301-15 Ø 1,5 mm
- 41301-20 Ø 2,0 mm
- 41301-25 Ø 2,5 mm
- 41301-35 Ø 3,5 mm



ZÖLLNER
41302-01



ZÖLLNER
41302-02



- 0,5 mm Ø 41306-05
- 0,7 mm Ø 41306-07
- 0,9 mm Ø 41306-09
- 1,2 mm Ø 41306-12

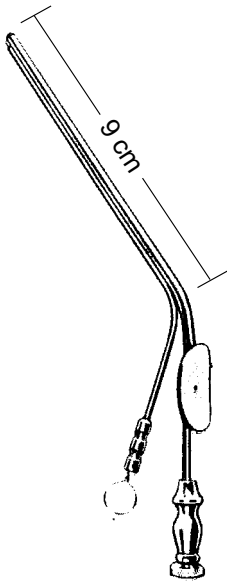
Kanüle für Sauggriff
für Zöllner und Wullstein

Tip for Suction Handle
for Zöllner and Wullstein

Cánula para mango
para Zöllner y Wullstein

Cannula per manico di aspirazione
per Zöllner e Wullstein

Saugrohre
Suction Tubes
Tubos de aspiración
Tubi aspirazioni



HOUSE
9 cm, 3½"

- 41303-09 Ø 0,9 x 0,7 mm
- 41303-12 Ø 1,2 x 0,9 mm
- 41303-15 Ø 1,5 x 1,2 mm
- 41303-18 Ø 1,8 x 1,8 mm
- 41303-25 Ø 2,5 x 2,0 mm
- 41303-30 Ø 3,0 x 2,0 mm
- 41303-45 Ø 4,5 x 2,0 mm



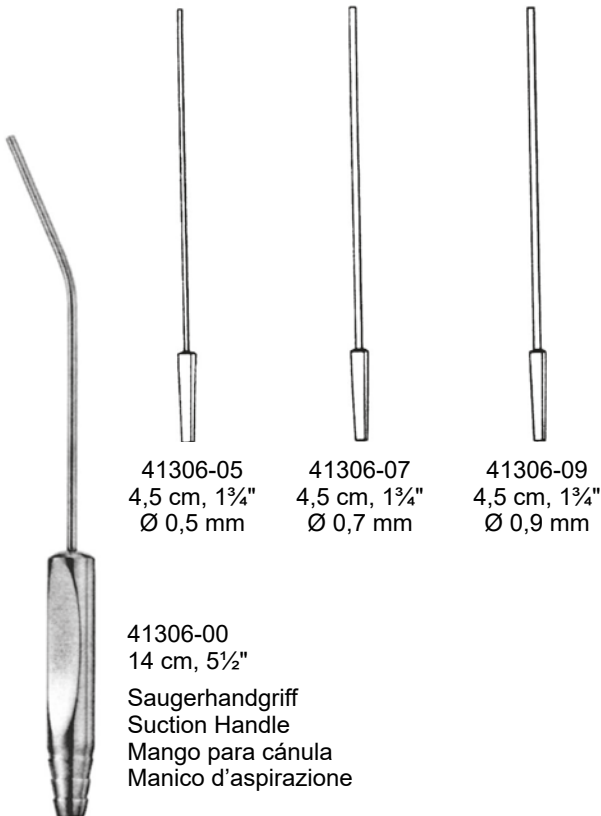
PLESTER 30°

- Charr. 6 41304-06
- Charr. 8 41304-08
- Charr. 10 41304-10

Saugrohre
Suction Tubes
Tubos de aspiración
Tubi aspirazioni

Mikro-Saugkanüle
Micro suction cannula
Micro tubo de aspiración
Micro-cannula d'aspirazione

Saugraspatorium
Suction Raspatory
Legra de succión
Raspatorio con aspiratore

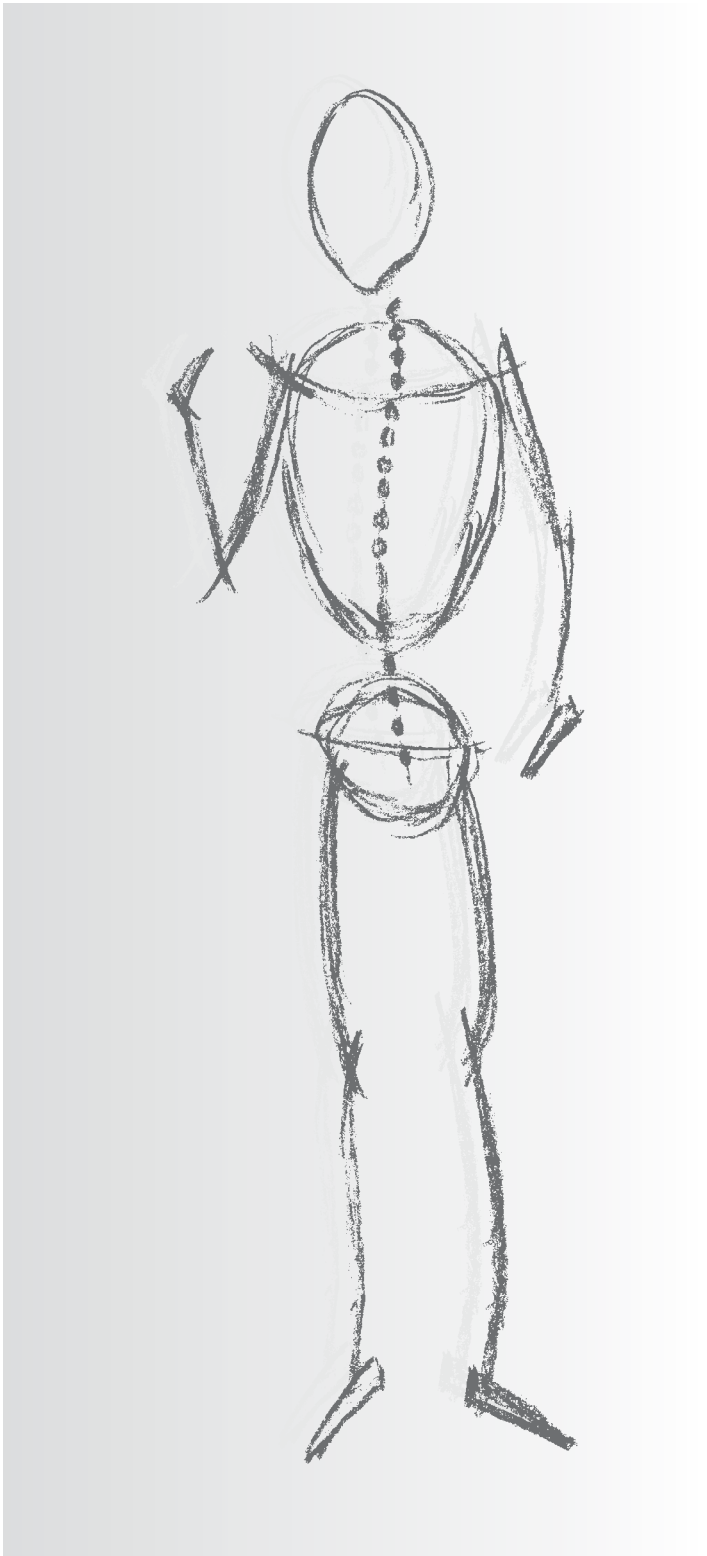


WULLSTEIN
41308-00

komplett, mit Griff und drei Aufsätzen
complete, with handle and 3 tips
completo, con mango y 3 puntas
completo, con manico e 3 punte



GUILLEN
47347-20
19 cm, 7 $\frac{1}{2}$ "



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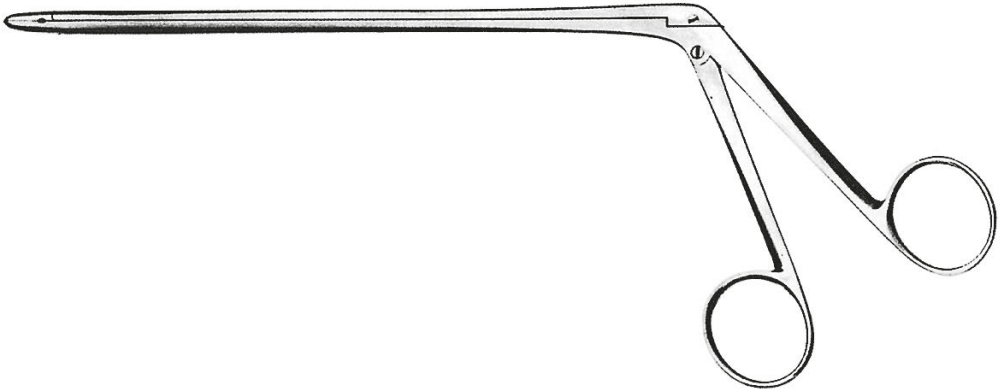
LAMINEKTOMIE


LAMINECTOMY

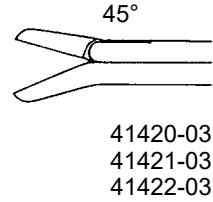
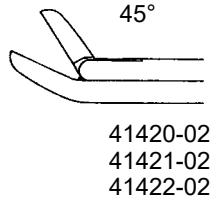
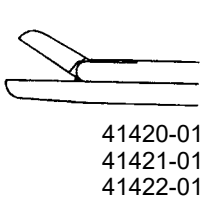
LAMINECTOMIA

LAMINECTOMIA


Laminektomie Zangen
 Laminectomy Forceps
 Pinzas para laminectomia
 Pinze per laminectomia

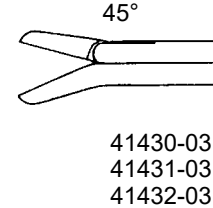
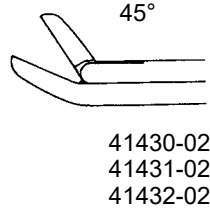
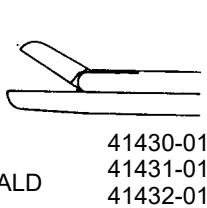



 CUSHING
 2 x 10 mm




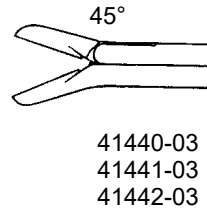
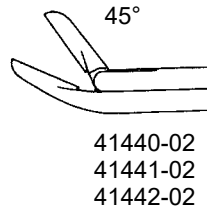
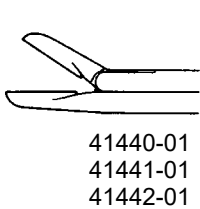
125 mm / 5"
 150 mm / 6"
 180 mm / 7"


 LOVE-GRUENWALD
 3 x 10 mm



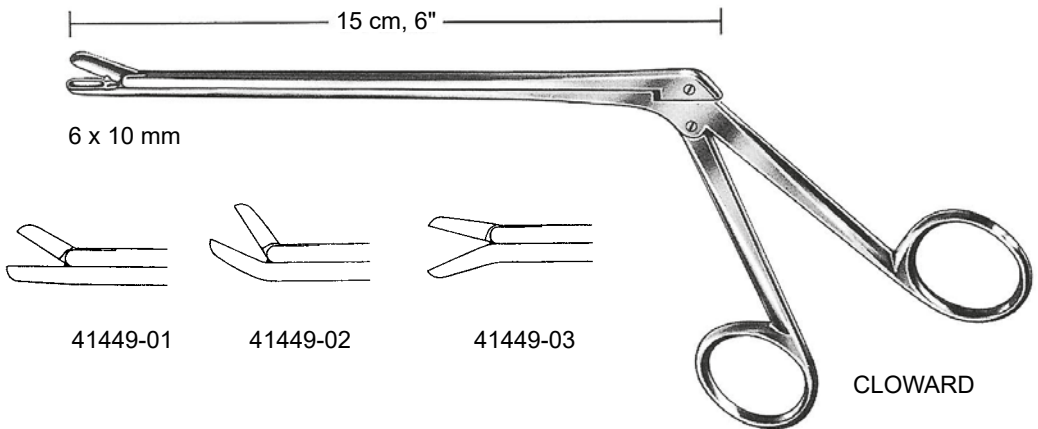
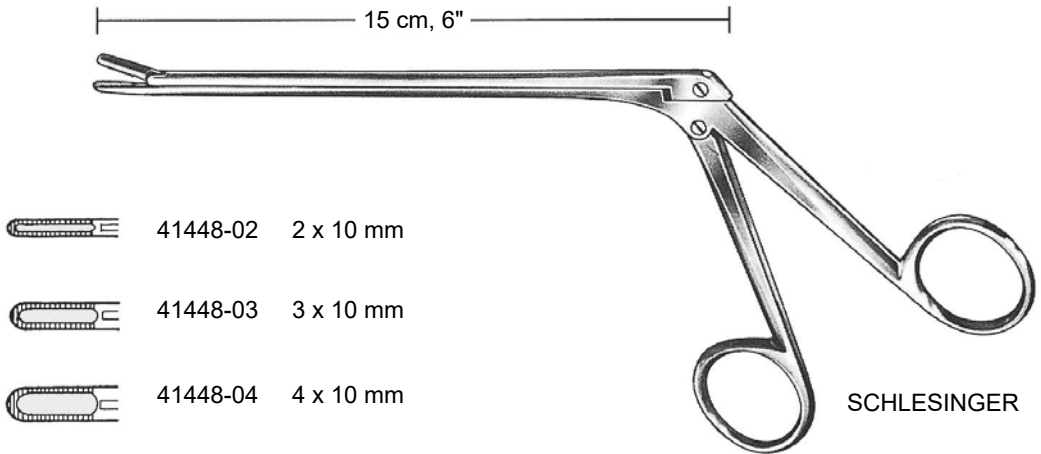
125 mm / 5"
 150 mm / 6"
 180 mm / 7"


 SPURLING
 4 x 10 mm

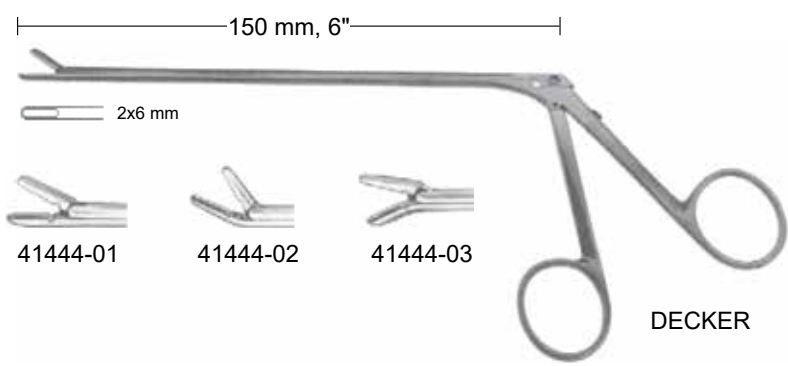
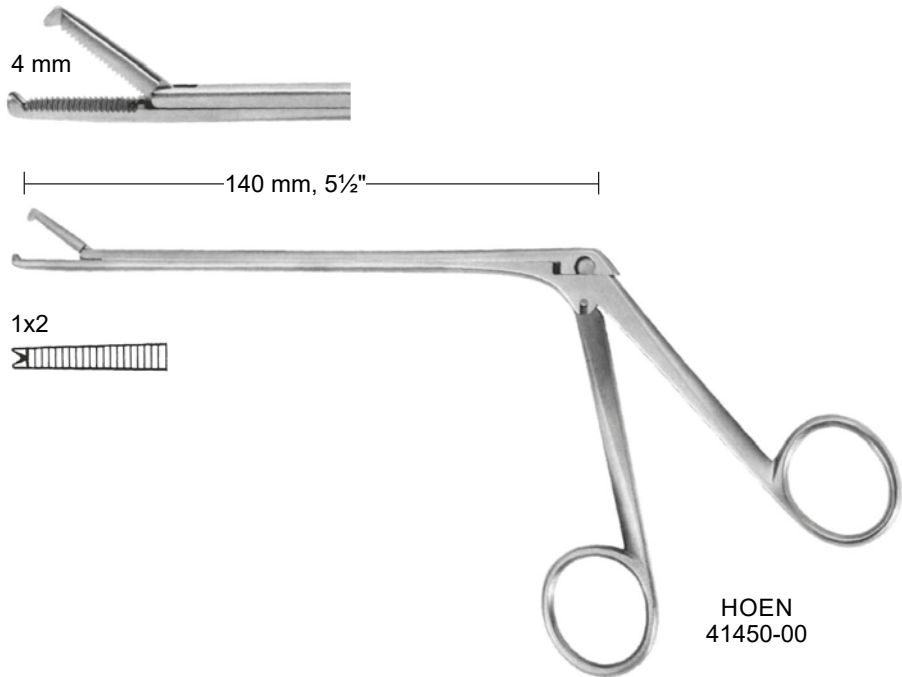


125 mm / 5"
 150 mm / 6"
 180 mm / 7"

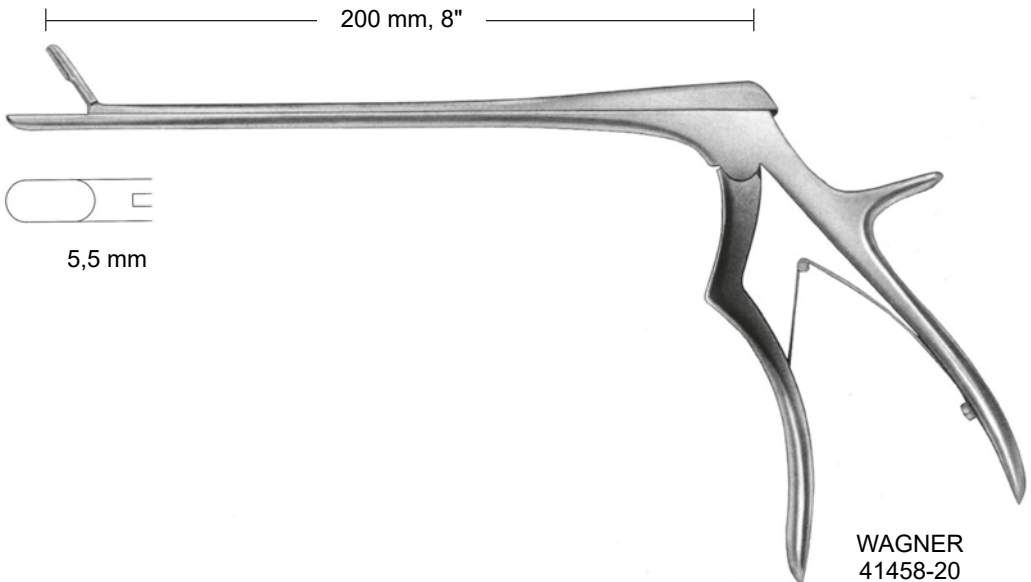
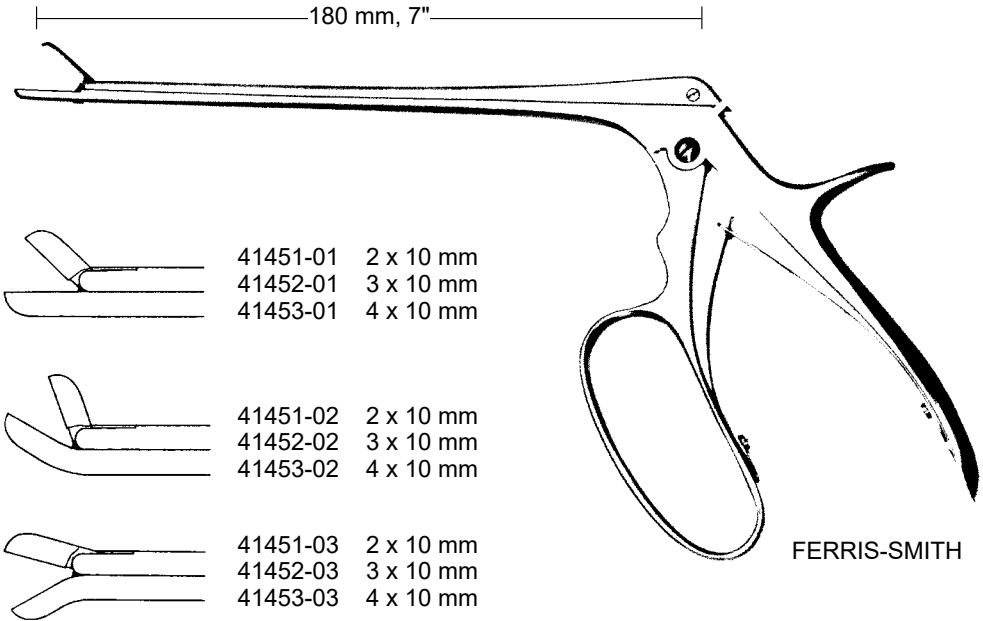
Laminektomie Zangen
Laminectomy Forceps
Pinzas para laminectomia
Pinze per laminectomia



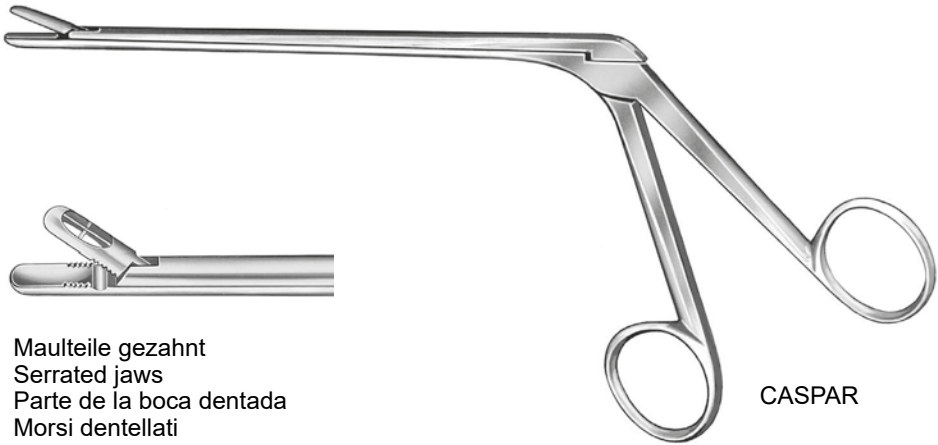
Laminektomie Zangen
Laminectomy Forceps
Pinzas para laminectomia
Pinze per laminectomia



Laminektomie Zangen
Laminectomy Forceps
Pinzas para laminectomia
Pinze per laminectomia

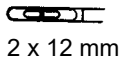
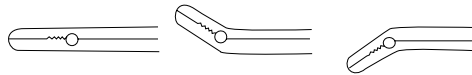


Laminektomie Zangen
 Laminectomy Forceps
 Pinzas para laminectomia
 Pinze per laminectomia



Maulteile gezahnt
 Serrated jaws
 Parte de la boca dentada
 Morsi dentellati

CASPAR



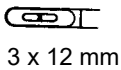
2 x 12 mm

41460-01
 41461-01
 41462-01

41460-02
 41461-02
 41462-02

41460-03
 41461-03
 41462-03

140 mm / 5½"
 160 mm / 6¼"
 185 mm / 7¼"



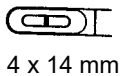
3 x 12 mm

41465-01
 41466-01
 41467-01

41465-02
 41466-02
 41467-02

41465-03
 41466-03
 41467-03

140 mm / 5½"
 160 mm / 6¼"
 185 mm / 7¼"



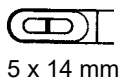
4 x 14 mm

41470-01
 41471-01
 41472-01

41470-02
 41471-02
 41472-02

41470-03
 41471-03
 41472-03

140 mm / 5½"
 160 mm / 6¼"
 185 mm / 7¼"



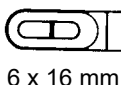
5 x 14 mm

41475-01
 41476-01
 41477-01

41475-02
 41476-02
 41477-02

41475-03
 41476-03
 41477-03

140 mm / 5½"
 160 mm / 6¼"
 185 mm / 7¼"



6 x 16 mm

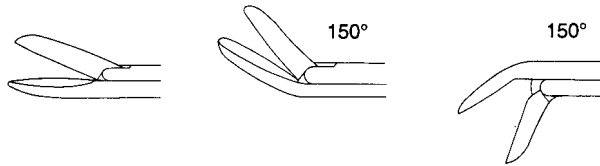
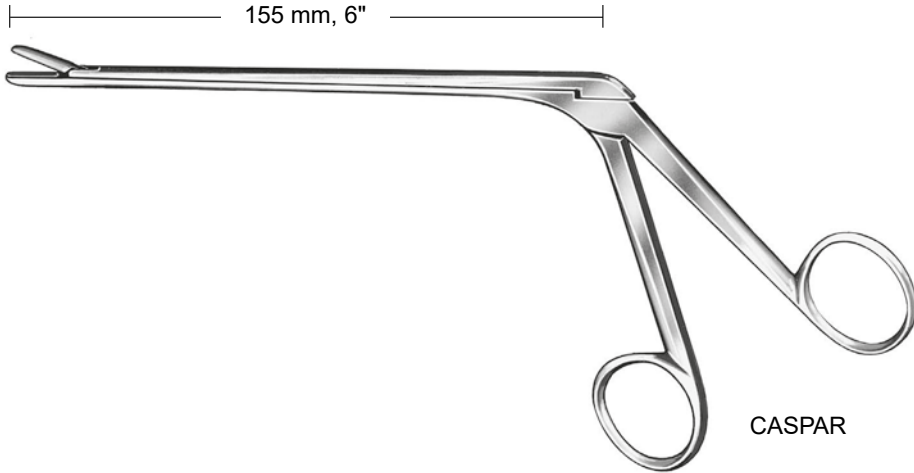
41480-01
 41481-01
 41482-01

41480-02
 41481-02
 41482-02

41480-03
 41481-03
 41482-03

140 mm / 5½"
 160 mm / 6¼"
 185 mm / 7¼"

Laminektomie Zangen
Laminectomy Forceps
Pinzas para laminectomia
Pinze per laminectomia



2 mm

41490-01

41490-02

41490-03

3 mm

41492-01

41492-02

41492-03

4 mm

41494-01

41494-02

41494-03

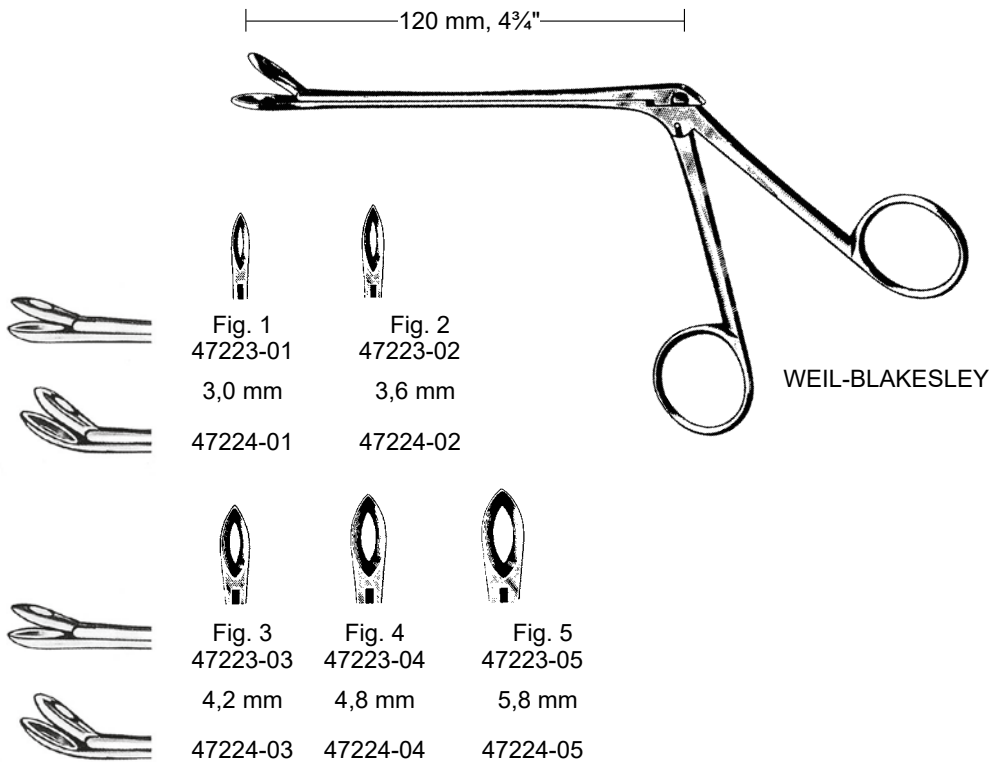
5 mm

41496-01

41496-02

41496-03

Laminektomie Zangen
 Laminectomy Forceps
 Pinzas para laminectomia
 Pinze per laminectomia



Hypophysen- und Tumorzangen
 Pituitary Rongeurs and Tumor Grasping Forceps
 Pinzas cortantes para hipófisis y para tumores
 Pinze per ipofisi e tumori



41445-25

180 mm / 7"

OLDBERG

Scharfe Hypophysenzange
 Sharp Pituitary Rongeur
 Pinza para hipófisis cortante
 Pinze per ipofisi tagliente



41446-02

190 mm / 7½"

LANDOLT

Scharfe Hypophysenzange
 Sharp Pituitary Rongeur
 Pinza para hipófisis cortante
 Pinze per ipofisi tagliente



41446-03

190 mm / 7½"

YASARGIL

Scharfe Hypophysenzange
 Sharp Pituitary Rongeur
 Pinza para hipófisis cortante
 Pinze per ipofisi tagliente

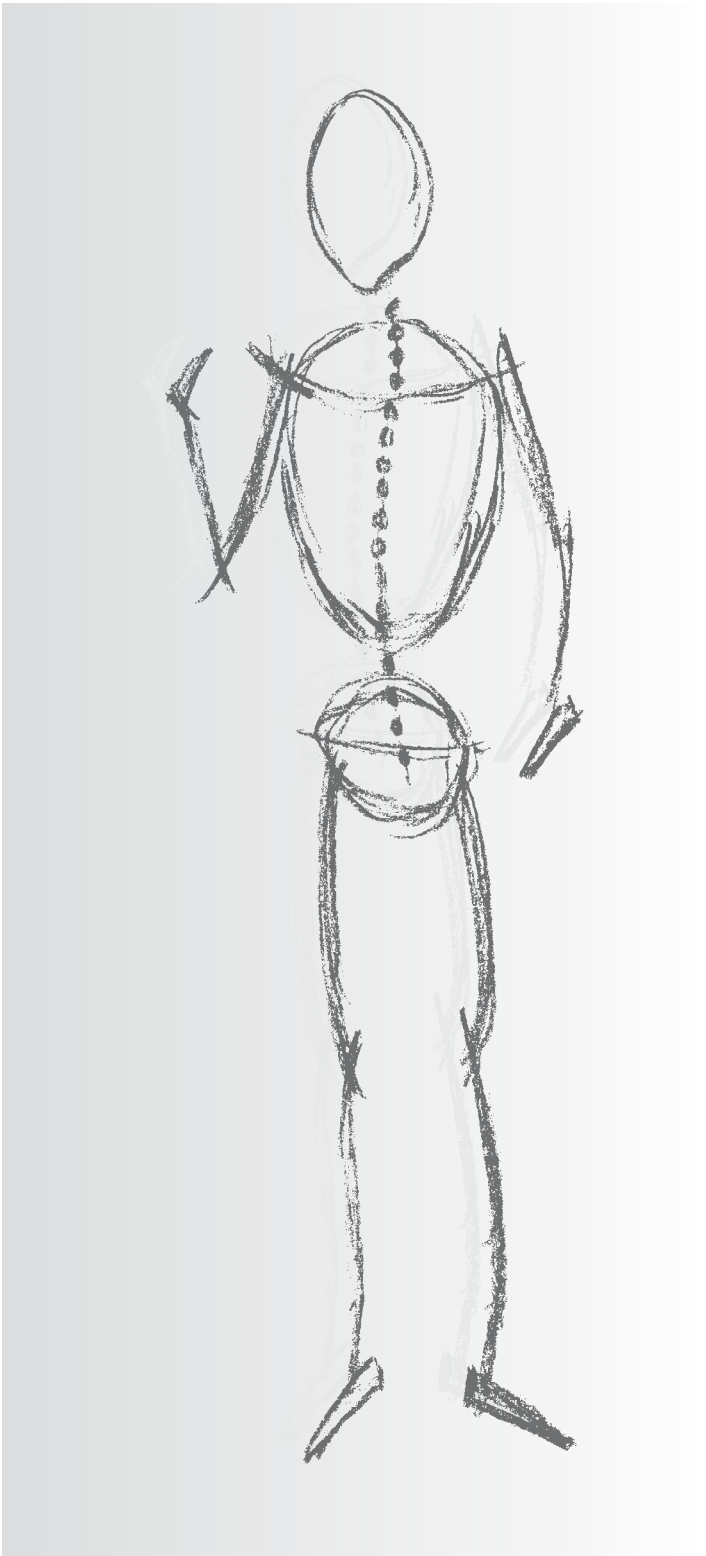


41446-09

200 mm / 8"

LANDOLT

Tumor-Faßzange, stumpf
 Tumor Grasping Forceps, blunt
 Pinza para tumores, roma
 Pinze per ipofisi smussa



Reda Instrumente GmbH
Gänsäcker 34 - P.O. Box 131
D-78532 Tuttlingen

**MIKRO-RUNDGRIFF-
INSTRUMENTE**

**MICRO INSTRUMENTS
WITH ROUND HANDLE**

**INSTRUMENTOS PARA
MICROCIRUGÍA CON
MANGOS REDONDOS**

**STRUMENTI PER
MICROCHIRURGIA CON
MANICO ROTONDO**

Mikro Gefäßmesser
 Micro Vessel Knives
 Micro cuchillos
 Micro coltelli per vasi



41230-01 185 mm / 7¼" KOOS



41230-02 185 mm / 7¼" KOOS



41230-03 185 mm / 7¼" KOOS

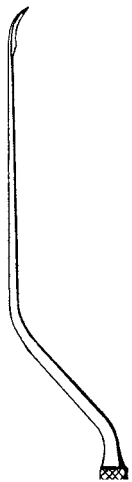


41230-05 185 mm / 7¼" YASARGIL

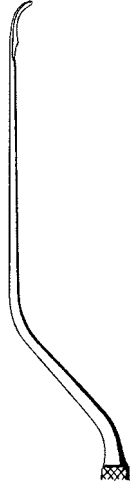


41230-06 185 mm / 7¼" YASARGIL

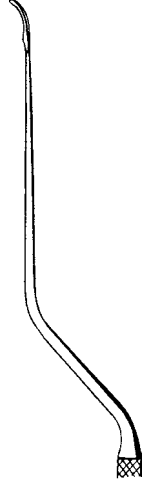
Messer, Haken, Sonden
Knives, Hooks, Probes
Bisturies, Ganchos, Sondas
Bisturi, Uncino, Sonde



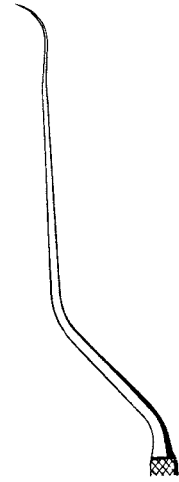
KOOS
41231-19
19 cm, 7½"



KOOS
41232-19
19 cm, 7½"



KOOS
41233-19
19 cm, 7½"



KOOS
41234-19
19 cm, 7½"



FISCH
41236-19
19 cm, 7½"

Durahaken
Dura Hook
Ganchito para dura-madre
Uncino dura madre



FISCH
41237-19
19 cm, 7½"

Feines Hákchen
Delicate Hook
Ganchito muy fino
Uncino molto fino



JACOBSON
41238-19
19 cm, 7½"

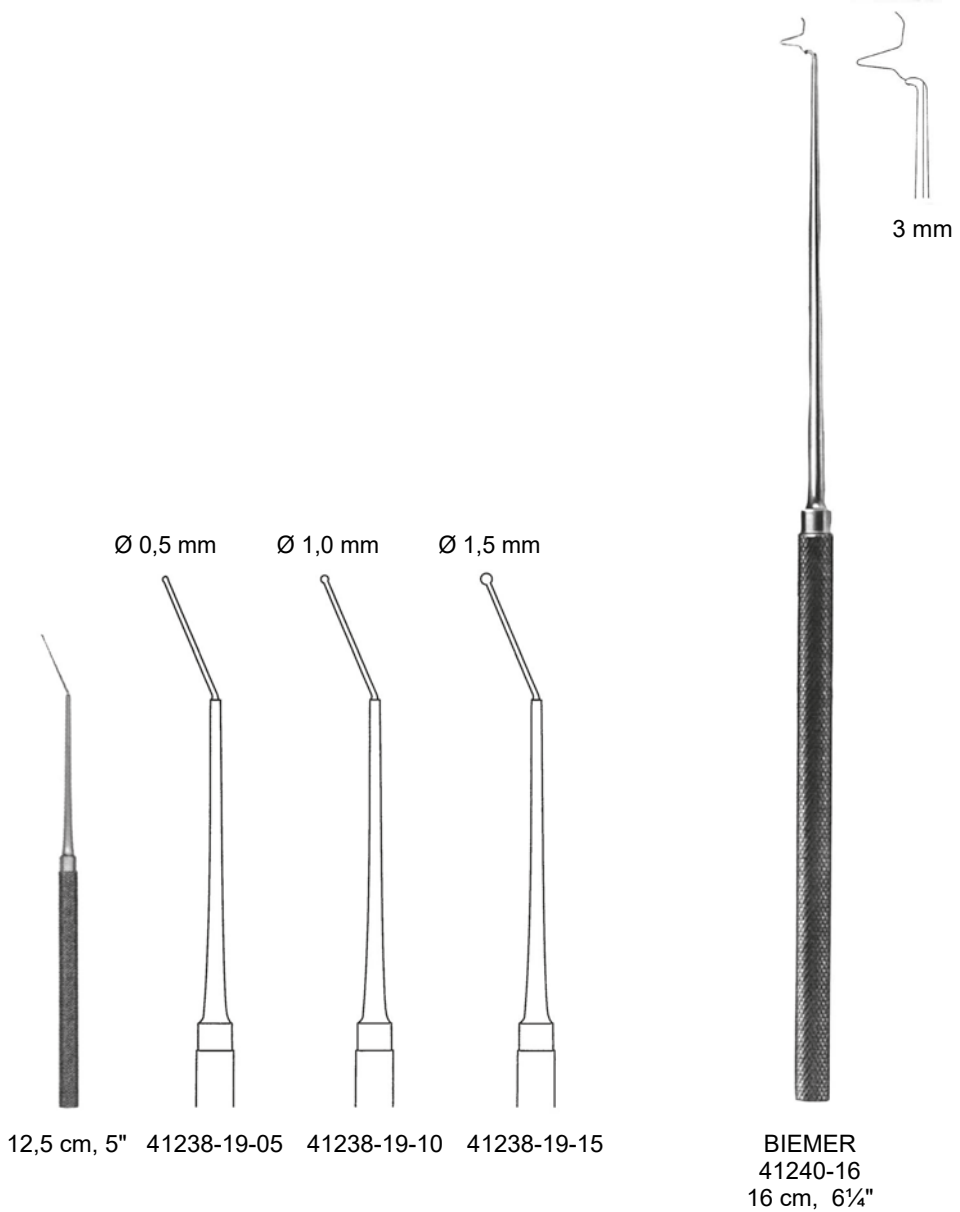
Knopfsonde
Buttoned Probe
Sonda abotonada
Sonda bottonuta



JACOBSON
41239-19
19 cm, 7½"

Doppelsonde
Twin Probe
Sonda doble
Sonda doppia

Gefäßdilatoren, Gefäßspreizer
Vessel dilators, Vessel Spreader
Dilatadores vasculares, Separador para vasos
Dilatatori vascolari, Divaricatore per vasi



Tumormesser
Knives for tumor tissue
Cuchillos para tumores
Coltelli per tumori



SAMII



1,0 mm

93460-20 200 mm / 8"
93460-23 230 mm / 9"



1,5 mm

93461-20 200 mm / 8"
93461-23 230 mm / 9"



2,0 mm

93462-20 200 mm / 8"
93462-23 230 mm / 9"



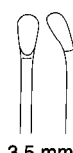
2,5 mm

93463-20 200 mm / 8"
93463-23 230 mm / 9"



3,0 mm

93464-20 200 mm / 8"
93464-23 230 mm / 9"



3,5 mm

93465-20 200 mm / 8"
93465-23 230 mm / 9"



4,0 mm

93466-20 200 mm / 8"
93466-23 230 mm / 9"



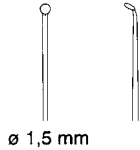
5,0 mm

93467-20 200 mm / 8"
93467-23 230 mm / 9"

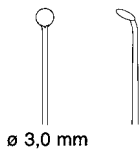
Tumormesser
Knives for tumor tissue
Cuchillos para tumores
Coltelli per tumori



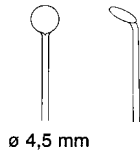
SAMII



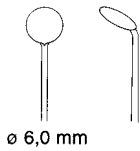
93470-20 200 mm / 8"
93470-23 230 mm / 9"



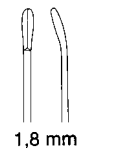
93471-20 200 mm / 8"
93471-23 230 mm / 9"



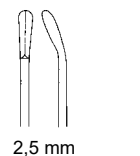
93472-20 200 mm / 8"
93472-23 230 mm / 9"



93473-20 200 mm / 8"
93473-23 230 mm / 9"



93474-23 230 mm / 9"
Lanzettenmesser
Lancet knives
Cuchillo lanceolar
Coltelli lanceolari

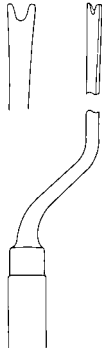


93475-23 230 mm / 9"
Lanzettenmesser
Lancet knives
Cuchillo lanceolar
Coltelli lanceolari

Fadengabel
Suture Pusher
Empujadores de suturas
Sonda Condutrice a forchetta



93500-18 185 mm / 7¼" JACOBSON

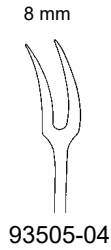
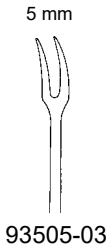
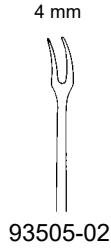
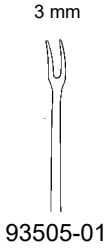


93501-23 230 mm / 9" CASPAR

Tumorgabeln
Tumor Forks
Horquillas para tumores
Forchetta per tumori



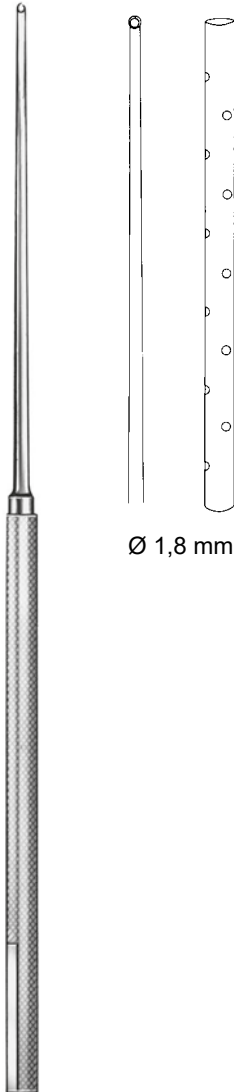
OKONEK-YASARGIL
23 cm, 9"



YASARGIL
20 cm, 8"



Gewebekralle
Tissue Pick
Garra para tejido
Uncini per tessuti



Ø 1,8 mm

mit Schutzkappe
with guard
con protector
con capuccio di protezione

93510-18
185 mm, 7¼"

Mikro-Rundgriffinstrumente
 Micro Instruments with round Handle
 Instrumentos para microcirugía con mangos redondos
 Strumenti per Microchirurgia con manico rotondo



41170-01
 Ø 1 mm
 Raspatorium
 Raspatories
 Legra
 Periostotomi

41170-07
 Ø 1,2 mm
 Dissektor
 Dissector
 Disector
 Dissettore

41170-11
 2 mm 90°
 Häkchen, halbscharf
 Hook, semi-sharp
 Gancho, semi agudo
 Gancio, semiacuto

41170-02
 Ø 2 mm
 Raspatorium
 Raspatories
 Legra
 Periostotomi

41170-08
 Ø 2,8 mm
 Dissektor
 Dissector
 Disector
 Dissettore

41170-12
 2 mm 90°
 Häkchen, stumpf
 Hook, blunt
 Gancho, romo
 Gancio, smusso

41170-03
 Ø 3 mm
 Raspatorium
 Raspatories
 Legra
 Periostotomi

41170-13
 3 mm 45°
 Häkchen, halbscharf
 Hook, semi-sharp
 Gancho, semi agudo
 Gancio, semiacuto

41170-04
 Ø 1 mm
 Dissektor, spatelförmig
 Dissector, spatula
 Disector, espatulado
 Dissettore, spatulate

41170-05
 Ø 1,5 mm
 Dissektor, spatelförmig
 Dissector, spatula
 Disector, espatulado
 Dissettore, spatulate

41170-09
 1 x 2 mm
 Scharfe Löffel, oval
 Curette, oval
 Cucharilla, oval
 Curette, ovale

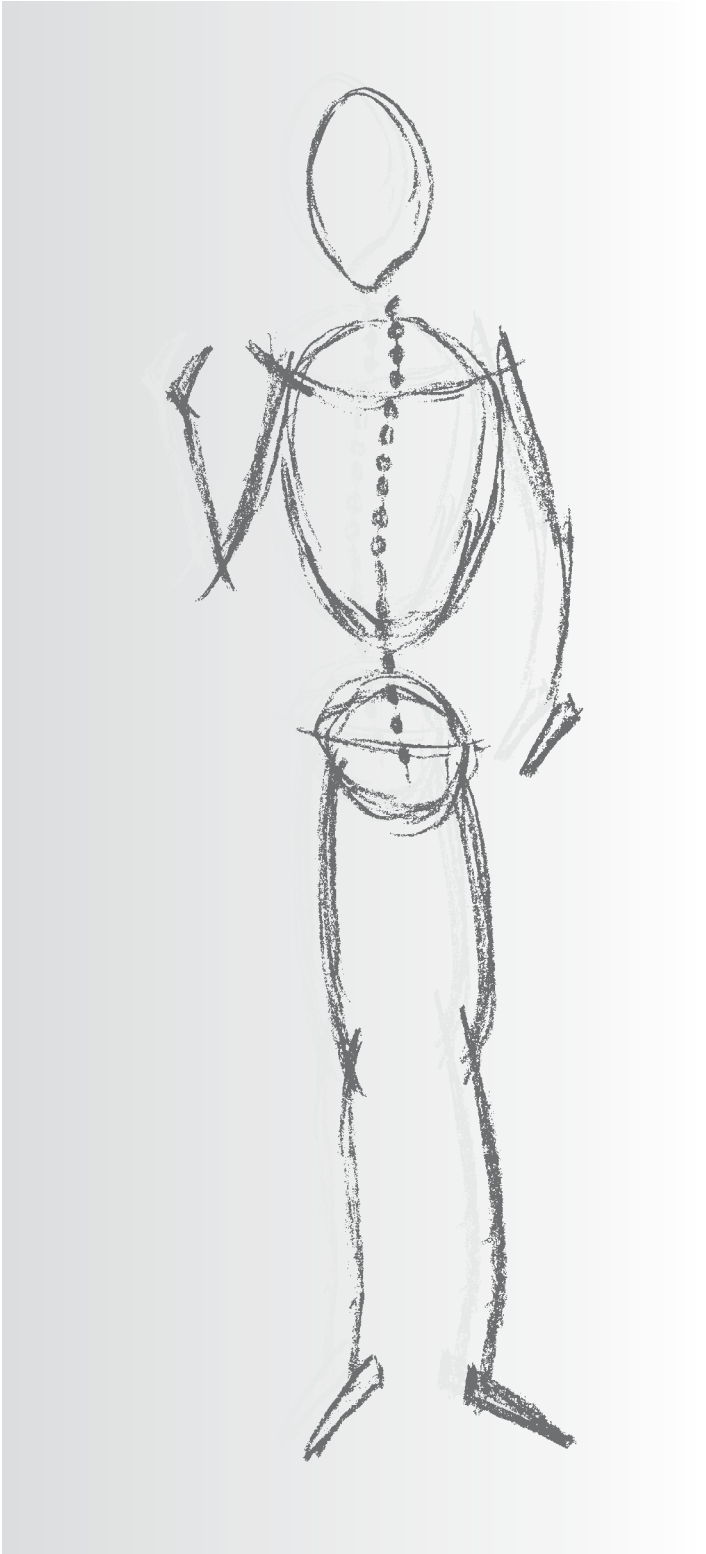
41170-14
 Nadel, halbscharf
 Needle, semi-sharp
 Aguja, semi agudo
 Ago, semiacuto

41170-06
 Ø 2 mm
 Dissektor, spatelförmig
 Dissector, spatula
 Disector, espatulado
 Dissettore, spatulate

41170-10
 1 x 2 mm 45°
 Scharfe Löffel, oval
 Curette, oval
 Cucharilla, oval
 Curette, ovale

41170-15
 90°
 Knopfsonde
 Buttoned probes
 Sonda abotonada
 Sonda bottonute

RHOTON
 19 cm, 7½"



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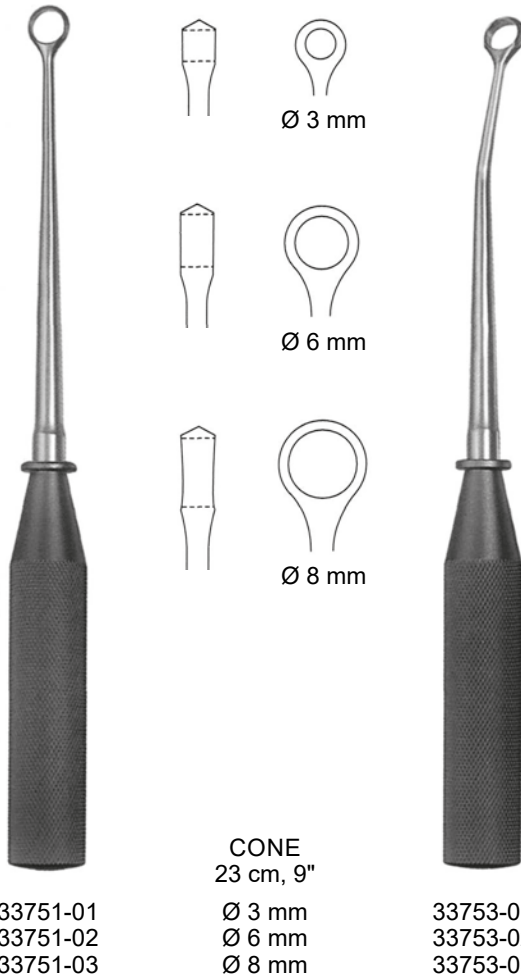
HYPOPHYSEKTOMIE

HYPOPHYSECTOMY

HIPOFISECTOMÍA

IPOFISECTOMIA

Ringküretten
Ring Curettes
Curetas anulares
Curette anulari



Hypophyse Pinzetten
Hypophyseal Forceps
Pinzas para hipófisis
Pinze per ipofisi



ADSON
41210-23
23 cm, 9"



ADSON
41213-23
23 cm, 9"

ADSON
41211-23
23 cm, 9"

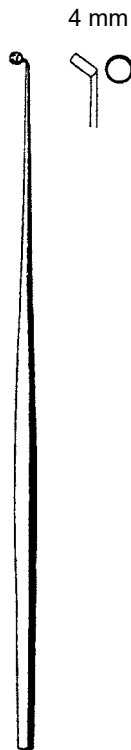
Küretten
Curette
Curetas
Curette



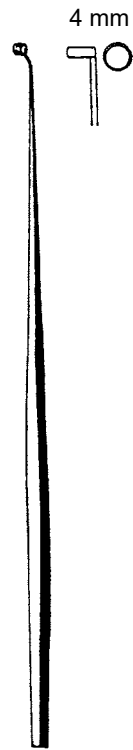
41221-00
19 cm, 7½"



41222-00
19 cm, 7½"



41223-00
19 cm, 7½"



41224-00
19 cm, 7½"

Hypophysektomie Instrumente
Pituitary Instruments
Instrumentos para hipófisis
Strumenti per ipofisi



CUSHING-LANDOLT

93600-01 70 x 15 mm

93600-02 90 x 15 mm

93600-03 110 x 15 mm

Spekula für trans-sphenoidale Hypophysektomie
specula for trans-sphenoidale hypophysectomy
especulos para hipofisectomía transfenoidal
specoli per ipofisectomia trasfenoidale



Spreizzange zum Spreizen der Spekula
spreader for specula
pinza para abrir el especulo
pinze per aprire gli specoli

LANDOLT
93605-21
210 mm, 8¼"

Hypophysektomie Instrumente
 Pituitary Instruments
 Instrumentos para hipófisis
 Strumenti per ipofisi



PAPAVERO-CASPAR
 93610-11 80 x 11 mm
 93610-13 90 x 13 mm
 93610-15 100 x 15 mm

Spekula für trans-sphenoidale Hypophysektomie
 specula for trans-sphenoidale hypophysectomy
 espéculos para hipofisectomía trasfenoidal
 specoli per ipofisectomia trasfenoidale



PAPAVERO-HARTMANN
 93615-01
 140 mm, 5½"

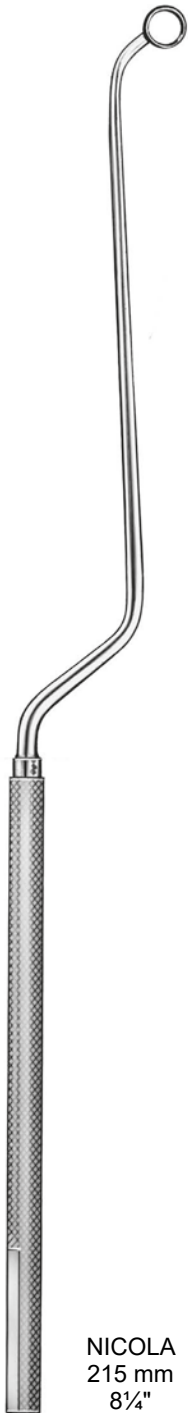
Spreizer für Spekula
 spreader for specula
 pinza para abrir el espéculo
 pinze per aprire gli specoli

140 mm, 5½"

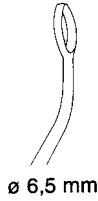


LANDOLT
 93620-14
 215 mm, 8 ½"

Hypophysektomie-Instrumente
 Pituitary Instruments
 Instrumentos para hipófisis
 Strumenti per ipofisi

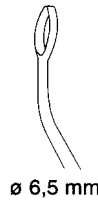


NICOLA
 215 mm
 8 1/4"



93660-01

Kürette, biegsam, nach rechts schneidend
 curette, malleable, cutting to the right
 cureta, maleable, cortante hacia la derecha
 curetta, malleabile, tagliente a destra



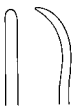
93660-02

Kürette, biegsam, nach links schneidend
 curette, malleable, cutting to the left
 cureta, maleable, cortante hacia la izquierda
 curetta, malleabile, tagliente a sinistra



93660-03

Kürette, biegsam
 curette, malleable
 cureta, maleable
 curetta, malleabile



93660-04

Raspatorium
 raspatory
 legra
 raspatore

Hypophysektomie-Instrumente
 Pituitary Instruments
 Instrumentos para hipófisis
 Strumenti per ipofisi



	93670-01	245 mm / 9 ³ / ₄ "	rechts/right/derecha/a destra	HARDY
	93670-02	245 mm / 9 ³ / ₄ "	links/left/izquierda/a sinistra	
	Eukleator, stumpf enucleator, blunt enucleador, romo enucleatore, smusso			
	93670-05	245 mm / 9 ³ / ₄ "	rechts/right/derecha/a destra	HARDY
	93670-06	245 mm / 9 ³ / ₄ "	links/left/izquierda/a sinistra	
	Eukleator, scharf enucleator, sharp enucleador, cortante enucleatore, tagliente			
	93670-09	245 mm / 9 ³ / ₄ "	HARDY	
	Implantationsgabel implant fork horquilla de implante forchetta per trapianti			
	93670-10	245 mm / 9 ³ / ₄ "	HARDY-FAHLBUSCH	
	Dissektor, innen scharf dissector sharpened inner edge disector, lado interno cortante dissettore, lato interno sinistro tagliente			
	93670-12	245 mm / 9 ³ / ₄ "	HARDY-FAHLBUSCH	
	Dissektor, innen scharf dissector sharpened inner edge disector, lado interno cortante dissettore, lato interno destro tagliente			

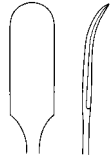
Hypophysektomie-Instrumente
 Pituitary Instruments
 Instrumentos para hipófisis
 Strumenti per ipofisi



93680-01 260 mm / 10³/₄" LANDOLT
 rechts/right/derecha/a destra

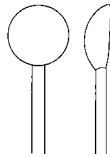
93680-02 260 mm / 10³/₄"
 links/left/izquierda/a sinistra

Enukleator, stumpf, biegsam
 enucleator, blunt, malleable
 enucleador, romo, maleable
 enucleatore, smusso, malleabile



93680-05 260 mm / 10³/₄" LANDOLT

Kürette, biegsam
 curette, malleable
 cureta, maleable
 curetta, malleabile



93680-06 260 mm / 10³/₄" LANDOLT

Löffel, biegsam
 scoop, malleable
 cucharilla, maleable
 cucchiaio, malleabile



93680-07 260 mm / 10³/₄" LANDOLT

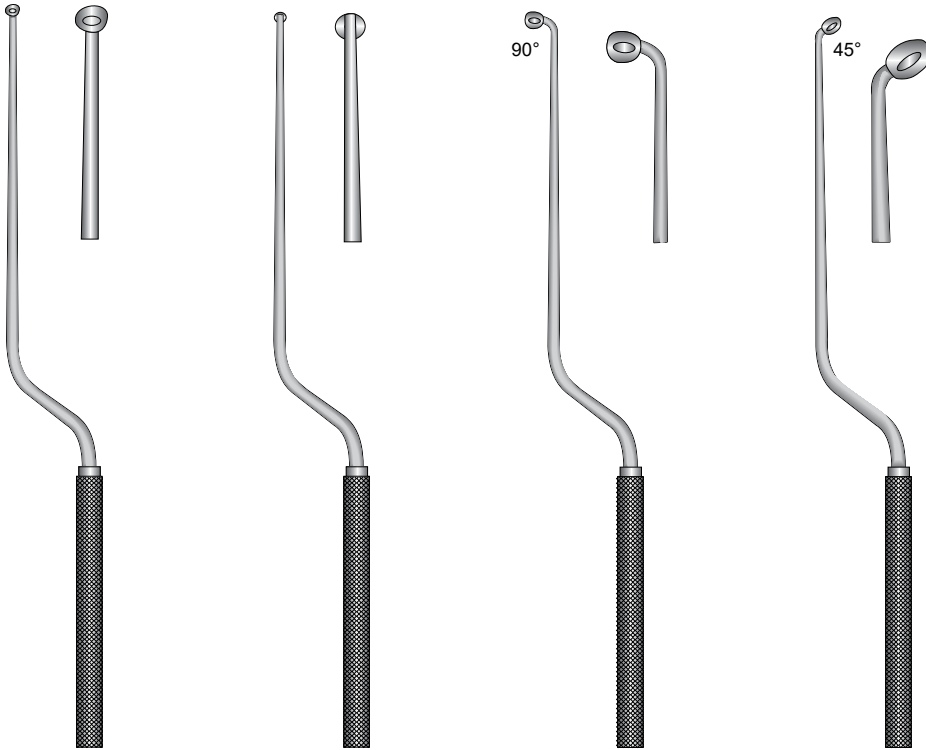
stumpfes Häkchen, biegsam
 blunt hook, malleable
 gancho, romo, maleable
 uncino smusso, malleabile



93690-01 260 mm / 10³/₄" HOSOBUCHI

gabelförmige Spatel, fest
 fork spatula, rigid
 espatula forma horquilla, rígida
 spatola forma a forchetta, rigida

Hypophysenküretten
 Pituitary Cures
 Cureta para hipófisis
 Curetta per ipofisi



HARDY

24 cm, 9½"

93700-03 3 mm

93700-05 5 mm

aufwärts gewinkelt
 angled up
 en ángulo hacia arriba
 angolato verso l'alto

HARDY

24 cm, 9½"

93701-03 3 mm

93701-05 5 mm

abwärts gewinkelt
 angled down
 ángulo hacia abajo
 angolato verso il basso

HARDY

24 cm, 9½"

93702-03 3 mm

93702-05 5 mm

links gewinkelt
 left curved
 curvo hacia la izquierda
 curva a destra

HARDY

24 cm, 9½"

93703-03 3 mm

93703-05 5 mm

rechts gewinkelt
 right curved
 curvo hacia la derecha
 curva a sinistra

Hypophysektomie-Instrumente
Pituitary Instruments
Instrumentos para hipófisis
Strumenti per ipofisi



HARDY
93704-24
23,5 cm, 9¼"

Löffel, biegsam
Spoon, malleable
Cucharilla, maleable
Cucchiaio, malleabile

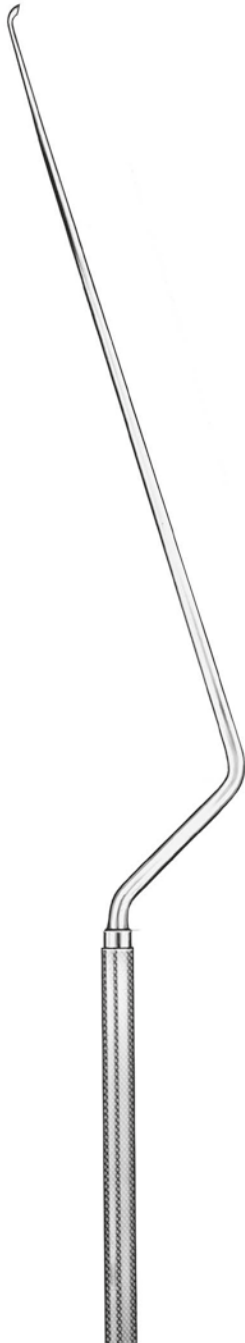
5 mm


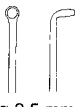
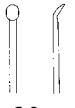
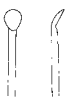
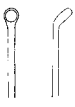

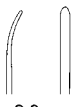


HARDY
93705-00
23 cm, 9"

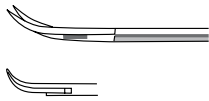
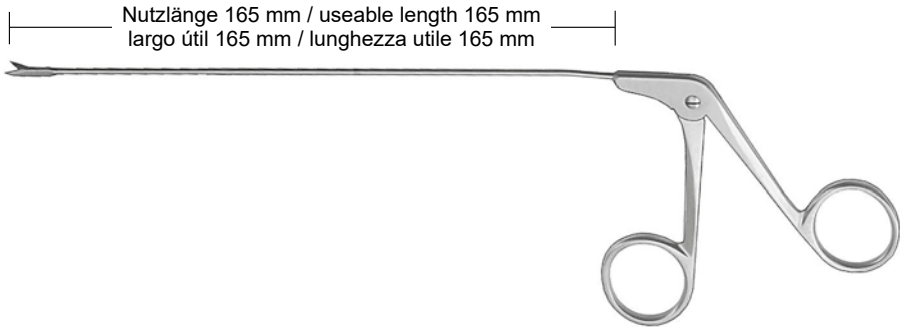
Mikrospiegel
Micro mirror
Micro espejo
Micro-specchio

Hypophysektomie-Instrumente
 Pituitary Instruments
 Instrumentos para hipófisis
 Strumenti per ipofisi

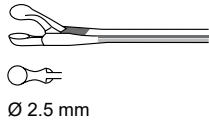


- | | | | |
|---|----------|---------------|--|
|  | 93710-01 | 260 mm / 10¼" | FAHLBUSCH |
| | | | Löffel, biegsam
scoop, malleable
cucharilla, maleable
cucchiaio, malleabile |
|  | 93710-02 | 260 mm / 10¼" | FAHLBUSCH |
| ø 2,5 mm | | | Kürette, biegsam
curette, malleable
cureta, maleable
curetta, malleabile |
|  | 93710-03 | 260 mm / 10¼" | LANDOLT-REULEN |
| ø 2,2 mm | | | Raspatorium, fest
raspatories, rigid
legra, rígida
raspatore, rigido |
|  | 93710-04 | 260 mm / 10¼" | LANDOLT-REULEN |
| ø 3,2 mm | | | Raspatorium, fest
raspatories, rigid
legra, rígida
raspatore, rigido |
|  | 93710-05 | 260 mm / 10¼" | LANDOLT-REULEN |
| ø 2,5 mm | | | Kürette, fest
curette, rigid
cureta, rígida
curetta, rigido |
|  | 93710-06 | 260 mm / 10¼" | LANDOLT-REULEN |
| 1,7 mm | | | stumpfes Hákchen, fest
blunt hook, rigid
gancho, romo, rígido
uncino smusso, rigida |
|  | 93710-07 | 260 mm / 10¼" | LANDOLT-REULEN |
| 2,0 mm | | | Dissektor, fest
dissector, rigid
disector, rigido
dissetto, rigida |

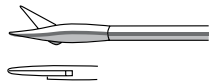
Hypophysektomie-Instrumente
 Pituitary Instruments
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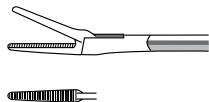
93720-01 165 mm / 6½" FAHLBUSCH
 Mikro-Schere, gebogen, horizontal schneidend
 Micro scissors, horizontal cutting
 Micro-tijera, curva, cortante en forma horizontal
 Micro forbice, curva, tagliente orizzontale



93720-02 165 mm / 6½" NICOLA
 Scharfe Zange
 Forceps scoop-shaped
 Pinza en forma de cuchara, cortante
 Pinze tagliente



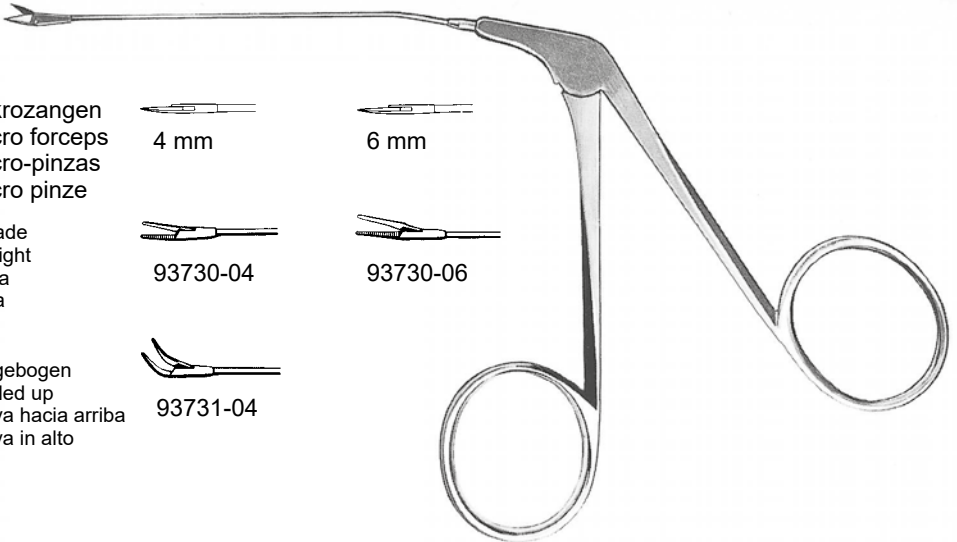
93720-03 165 mm / 6½" NICOLA
 Mikro-Schere, gerade
 Micro Scissors, straight
 Micro-tijera, recta
 Micro forbice, retta



93720-04 165 mm / 6½" YASARGIL-NICOLA
 Faßzange
 Grasping Forceps
 Pinza de agarre
 Pinze da presa

Hypophysektomie-Instrumente
 Pituitary Instruments
 Instrumentos para hipófisis
 Strumenti per ipofisi

Nutzlänge 80 mm / useable length 80 mm
 largo útil 80 mm / lunghezza utile 80 mm



Mikrozangen
 Micro forceps
 Micro-pinzas
 Micro pinze



4 mm



6 mm

gerade
 straight
 recta
 retta



93730-04



93730-06

aufgebogen
 angled up
 curva hacia arriba
 curva in alto



93731-04

Löffelzangen
 Cup-shaped Forceps
 Pinzas en forma de cuchara
 Pinze, morso a forma di cucchiaio

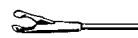
gerade
 straight
 recta
 retta

rund
 round
 redondo
 rotondo



93740-01

oval
 oval
 oval
 ovale



93740-02

Mikro-Scheren
 Micro Scissors
 Micro tijeras
 Micro Forbici

gerade
 straight
 recta
 retta



93750-01

rechts gebogen
 curved right
 curva hacia la derecha
 curva a destra



93750-03

aufgebogen
 angled up
 curva hacia arriba
 curva in alto

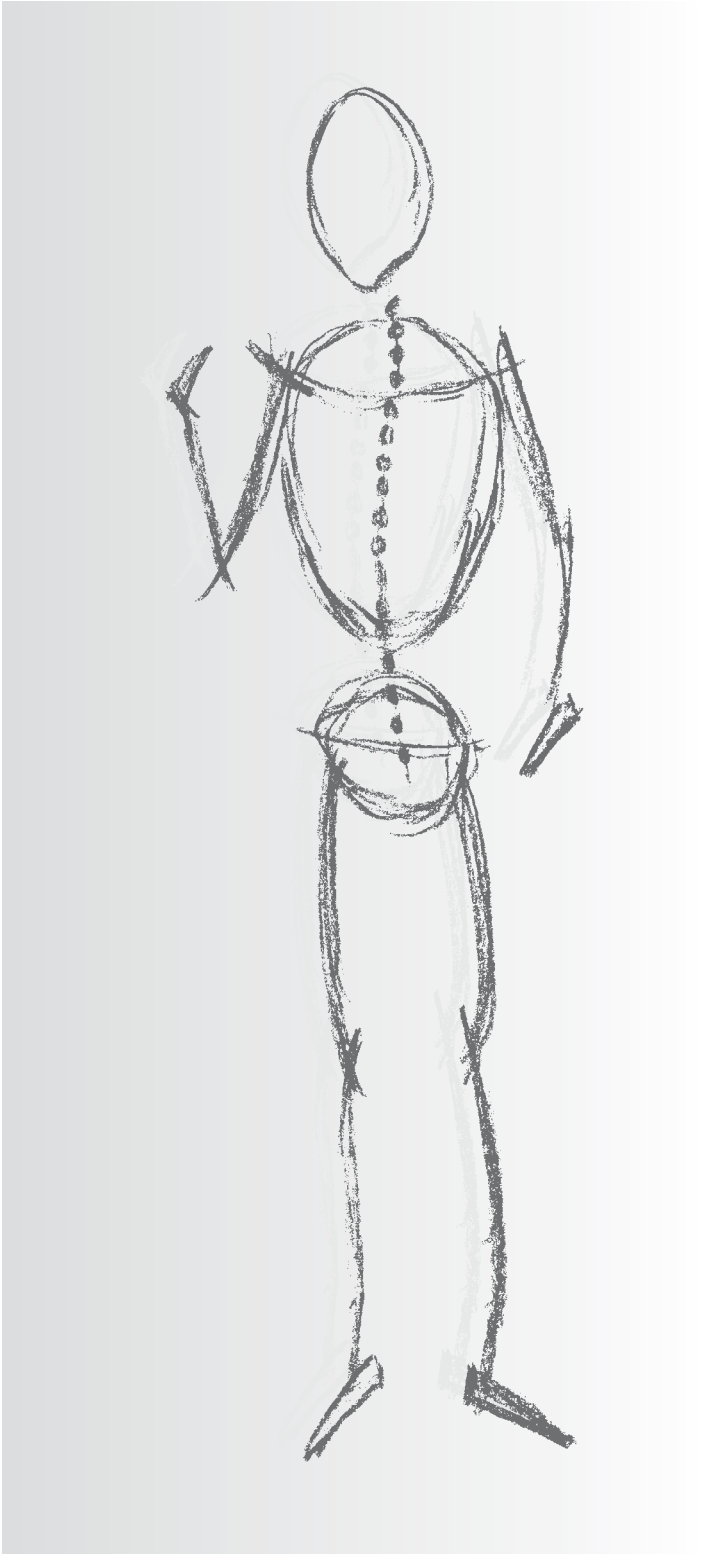


93750-02

links gebogen
 curved left
 curva hacia la izquierda
 curva a sinistra



93750-04



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HIRNSPATEL

BRAIN SPATULAS

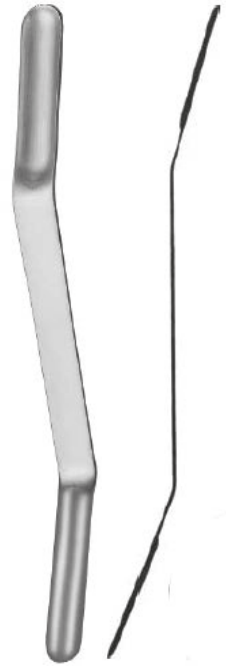
ESPÁTULAS CEREBRALES

SPATOLE CEREBRALI

Hirnspatel
Brain Spatulas
Espátulas cerebrales
Spatole cerebrali



biegsam
malleable
maleable
malleabile



AACHEN

- 41249-07 7/8 x 200 mm
- 41249-10 10/11 x 200 mm
- 41249-13 13/14 x 200 mm
- 41249-16 16/17 x 200 mm
- 41249-19 19/20 x 200 mm
- 41249-22 22/25 x 200 mm

CUSHING

- 41250-11 8 x 10 mm
- 41250-15 13 x 15 mm
- 41250-18 16 x 18 mm

OLIVECRONA

- 41253-07 7/9 mm
- 41253-11 11/13 mm
- 41253-15 15/18 mm
- 41253-18 18/22 mm

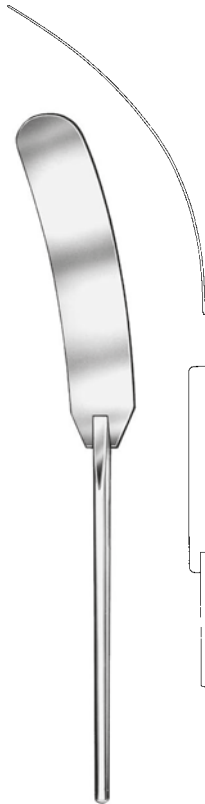
Hirnspatel
Brain Spatulas
Espátulas cerebrales
Spatole cerebrali



biegsam
malleable
maleable
malleabile

DAVIS
18 cm, 7"

41254-06	6 mm
41254-10	9 mm
41254-13	13 mm
41254-16	16 mm
41254-19	19 mm
41254-25	25 mm
41254-32	32 mm
41254-38	38 mm



200 mm / 8"
41860-14 14 mm
41860-17 17 mm
41860-20 20 mm



155 mm / 6"
41870-08 8 mm
41870-11 11 mm
41870-14 14 mm
41870-17 17 mm

HEIFETZ

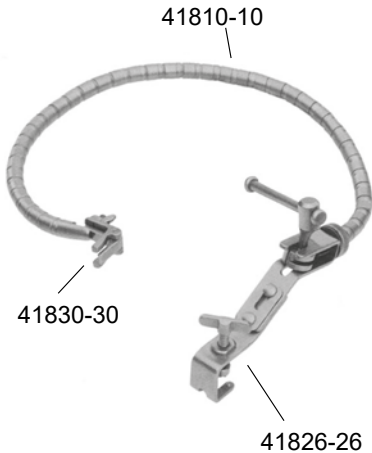
biegsam
malleable
maleable
malleabile



biegsam
malleable
maleable
malleabile

41880-01	9 x 200 mm, 8"
41880-02	12 x 200 mm, 8"
41880-03	12 x 250 mm, 10"

LEYLA Retraktor System
 LEYLA Retractor System
 Separador de sistema LEYLA
 LEYLA Sistema di fissaggio



YASARGIL

41801-01 Hirnspatelhalter, flexibel, für 1 flachen Spatel, komplett, bestehend aus:
 brain retractor, flexible, for 1 flat spatula, complete, consisting of:
 separador autorententivo, flexible, para espátula con 1 brazo flexible, completo, compuesto de:
 divaricatore autostatico, flessibile, per spatole piatte, con 1 braccio flessibile, completo, composto da:

41810-10 flexibler Spannarm
 flexible arm
 brazo flexible
 braccio flessibile

41826-26 Fixiervorrichtung für 1 flexiblen Spannarm
 fixation base for 1 flexible arm
 fijador para 1 brazo flexible
 fissatore per 1 braccio al braccio rigido

41830-30 Spatelhalter für flache Spatel
 support for flat brain spatula
 soporte para espátulas cerebrales planas
 sostegno per spatole piatte

YASARGIL

41802-02 Hirnspatelhalter, flexibel für 2 flache Spatel, komplett, bestehend aus:
 brain retractor, flexible, for 2 flat spatulas, complete, consisting of:
 separador autorententivo, flexible, para 2 espátulas planas con 2 brazos flexibles, completo, compuesto de:
 divaricatore autostatico, flessibile, per spatole piatte, con 2 bracci flessibili, completo, composto da:



41810-10 flexibler Spannarm (2x)
 flexible arm (2x)
 brazo flexible (2x)
 braccio flessibile (2x)

41822-22 Fixiervorrichtung für 2 flexible Spannarme
 fixation base for 2 flexible arms
 fijador para 2 brazos
 fissatore per 2 bracci al cranio

41830-30 Spatelhalter für flache Spatel (2x)
 support for flat brain spatula (2x)
 soporte para espátulas cerebrales planas (2x)
 sostegno per spatole piatte (2x)

LEYLE Retraktor System
 LEYLE Retractor System
 Separador de sistema LEYLE
 LEYLE Sistema di fissaggio

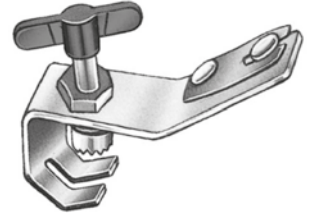
41821-21

Fixiervorrichtung für 1 flexiblen Spannarm zum Festschrauben an Rohrteilen bis \varnothing 16 mm

Fixation base for mounting on bars up to \varnothing 16 mm, for 1 flexible arm

Fijador para 1 brazo flexible, para atornillar a tubos hasta 16 mm

Fissatore per 1 braccio al braccio rigido



41822-22

Fixiervorrichtung für 2 flexible Spannarme zum Festschrauben am Schädel

Fixation base for skull mounting, holding 2 flexible arms

Fijador para 2 brazos flexibles, para atornillar al cráneo

Fissatore per 2 bracci al cranio



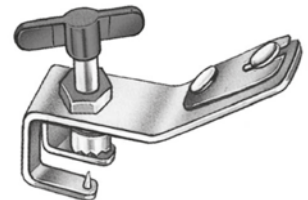
41826-26

Fixiervorrichtung für 1 flexiblen Spannarm zum Festschrauben am Schädel

Fixation base for skull mounting, holding 1 flexible arm

Fijador para 1 brazos flexibles, para atornillar al cráneo

Fissatore per 1 braccio al cranio



41830-30

Spatelhalter für flache Hirnspatel zur Befestigung am Spannarm

Support for flat brain spatula

Soporte para espátulas cerebrales planas para fijación al brazo flexible

Sostegno per spatole piatte



41832-32

Halter für Hirnspatel mit rundem Schaft bis \varnothing 5,5 mm zur Befestigung am Spannarm

Support for brain spatula with round shaft

Soporte para espátulas cerebrales con mango redondo hasta \varnothing 5,5 mm para

fijación al brazo flexible

Sostegno flessibile per spatola cerebrale



LEYLA Retraktor System
 LEYLA Retractor System
 Separador de sistema LEYLA
 LEYLA Sistema di fissaggio

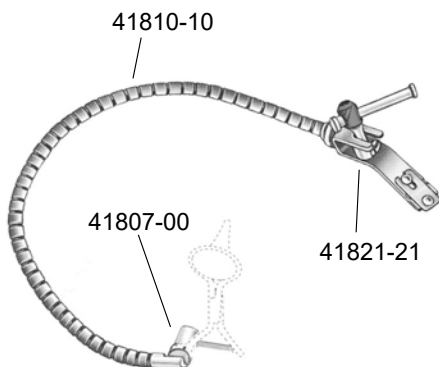


YASARGIL

41810-10 flexibler Spannarm, allein
 flexible arm, only
 brazo flexible, suelto
 braccio flessibile, solo

YASARGIL

41803-01 Ohrspekulahalter, komplett, bestehend aus:
ear specula holder, complete, consisting of:
soporte para espejos auriculares completo,
compuosto de:
 sostegno per specchio auricolare, completo
 composto da:

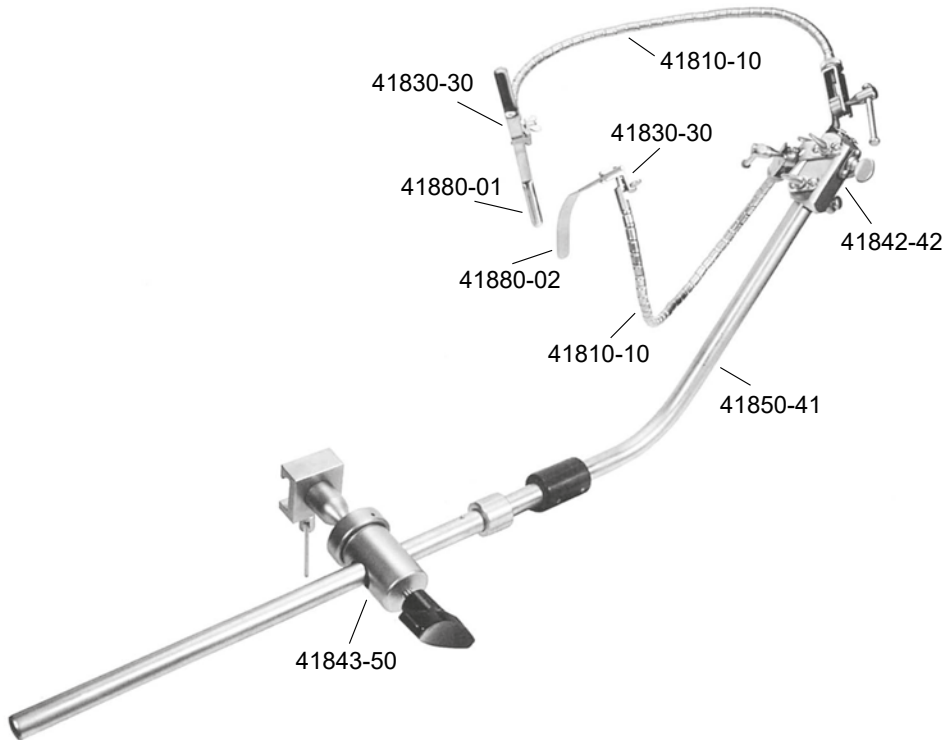


41810-10 flexibler Spannarm
 flexible arm, only
 brazo flexible, suelto
 braccio flessibile, solo

41821-21 Fixiervorrichtung zum Befestigen an Rohrteilen
bis Ø 16 mm
clamp for fixation on bars up to Ø 16 mm
fijador para 1 brazo flexible, para atornillar a
tubos hasta 16 mm
fissatore al braccio rigido Ø 16 mm

41807-00 Ohrtrichterhalter, allein
 ear specula holder, only
 soporte para espejos auriculares, suelto
 sostegno per specchio auricolare

LEYLA Retraktor System
 LEYLA Retractor System
 Separador de sistema LEYLA
 LEYLA Sistema di fissaggio



41802-00 LEYLA-Retraktor-System zum Fixieren am OP-Tisch komplett, bestehend aus:
 LEYLA Self-Retraining Retractor for fixation to operating table, complete, consisting of:
 Separador LEYLA para fijacion a la mesa de operaciones, completo, compuesto de:
 LEYLA Sistema di fissaggio al tavolo operatorio, composto da:

- | | |
|---|--|
| 41843-50 Kugelgelenkkloben (1x)
ball and socket joint (1x)
articulacion esferica (1x)
giunto per fissare (1x) | 41830-30 Spatelhalter für flache Spatel (2x)
support for flat brain spatula (2x)
soporte para espátulas cerebrales planas (2x)
sostegno per spatole piatte (2x) |
| 41850-41 starrer Haltearm (1x)
rigid holding rod (1x)
brazo de fijación rigido (1x)
braccio di fissaggio rigido (1x) | 41880-01 CUSHING Hirnspatel (1x)
CUSHING brain spatula (1x)
CUSHING espatula para cerebro (1x)
CUSHING spatola cerebrale (1x) |
| 41842-42 Kupplungskopf (1x)
coupling head (1x)
cabeza de acoplamiento (1x)
giunto per combinare (1x) | 41880-02 CUSHING Hirnspatel (1x)
CUSHING brain spatula (1x)
CUSHING espatula para cerebro (1x)
CUSHING spatola cerebrale (1x) |
| 41810-10 flexibler Spannarm (2x)
flexible arm, only (2x)
brazo flexible, suelto (2x)
braccio flessibile, solo (2x) | |

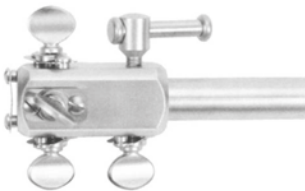
LEYLA Retraktor System
 LEYLA Retractor System
 Separador de sistema LEYLA
 LEYLA Sistema di fissaggio



- 41843-50 Kugelgelenkkloben zum Befestigen an der OP-Tischschiene und zur Aufnahme des Haltearms 41850-41
 ball and socket joint for fixation of holding rod 41850-41 at the operating table
 articulacion esferica, para sujetar el brazo de soporte rigido sobre la mesa de operaciones 9 x 32 mm
 giunto per fissare il braccio, articolato 9 x 32 mm



- 41850-41 starrer Haltearm, auseinandernehmbar, zur Fixation im Kugelgelenkkloben 41843-50 und zur wahlweisen Aufnahme der Kupplungsköpfe 41842-42, 41842-44 und 41842-46
 holding rod, detachable, for fixation in ball and socket joint 41843-50 and to hold a desired coupling head 41842-42, 41842-44 or 41842-46
 brazo de soporte rigido, desmontable, para fijacion a la articulacion esferica 41843-50 y opcionalmente a las cabezas 41842-42, 41842-44 y 41842-46
 braccio di sostegno rigido, per fissaggio al giunto 41843-50 e dei giunti 41842-42, 41842-44 e 41842-46

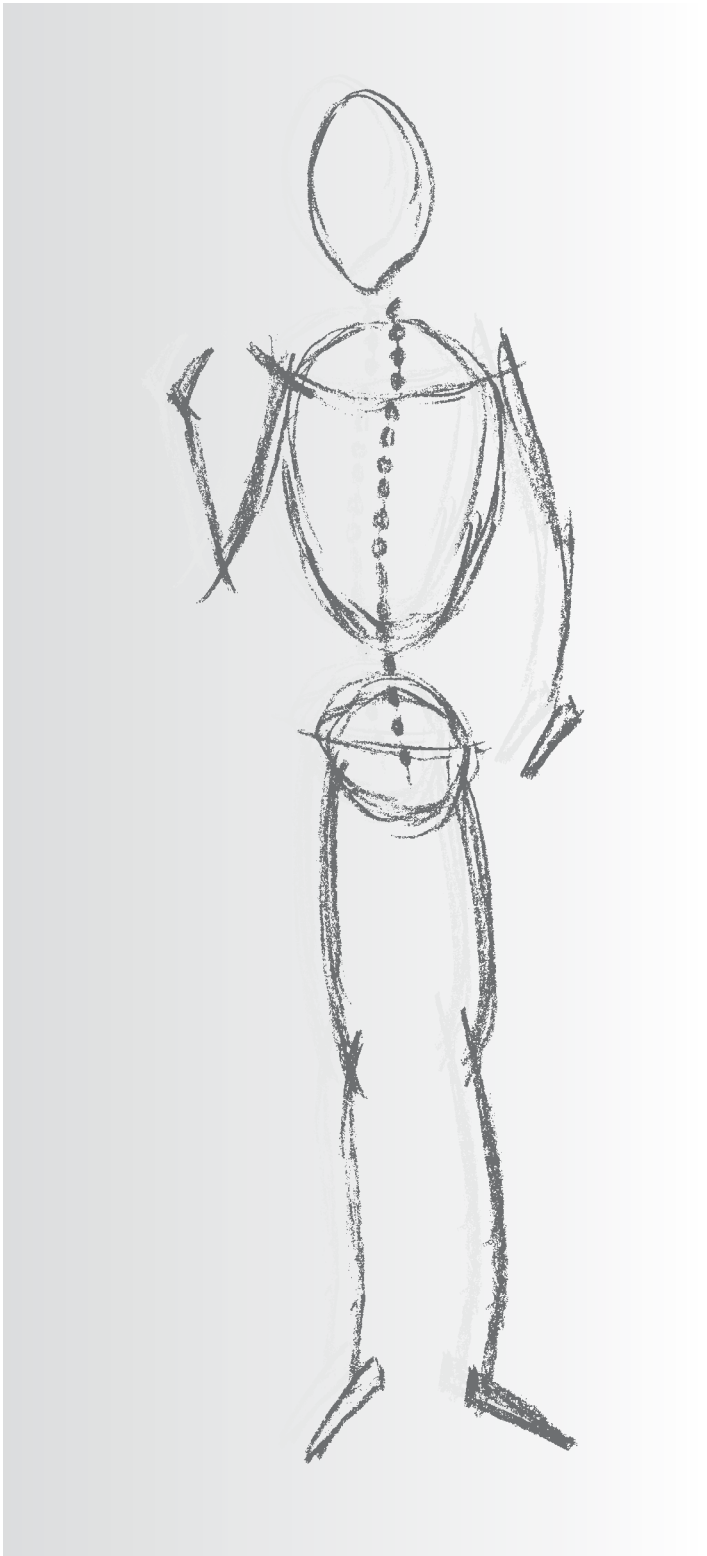


- 41842-42 Kupplungskopf, zur Aufnahme von max. 5 flexiblen Spannarmen 41810-10
 coupling head to hold 5 flexible arms 41810-10
 cabeza de acoplamiento para fijar hasta 5 brazos flexibles
 giunto per combinare 5 bracci



- 41842-44 Kupplungskopf, drehbar, zur Aufnahme von 1 flexiblen Spannarm 41810-10
 coupling head, turnable, to hold 1 flexible arm 41810-10
 acoplamiento, girable y se puede fijar en todas las posturas para sujetar un brazo flexible 41810-10
 giunto per combinare, rotabile, per sostegno del braccio 41810-10

- 41842-46 Kupplungskopf, seitlich offen zur Aufnahme von 1 flexiblen Spannarm 41810-10
 coupling head, lateral open, to hold 1 flexible arm 41810-10
 acoplamiento, abierto al lado, para un brazo flexible 41810-10
 giunto per fissare il braccio, per 41810-10



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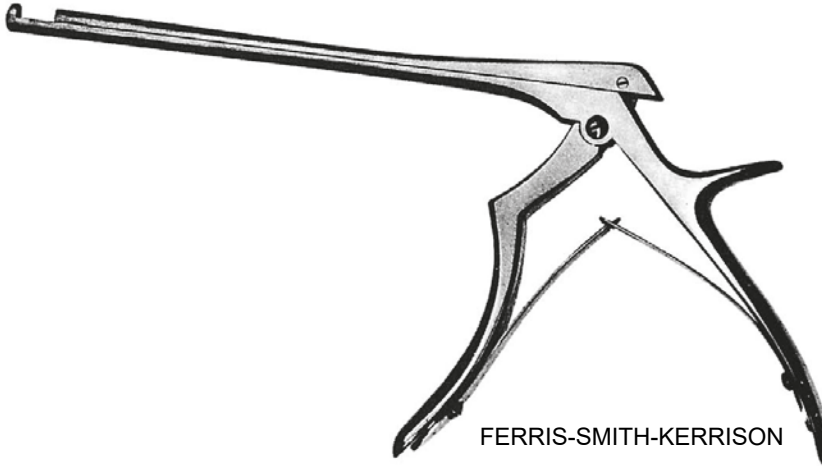
STANZEN

PUNCHES

PINZAS SACABOCADO

PINZE LAMINOTOMO

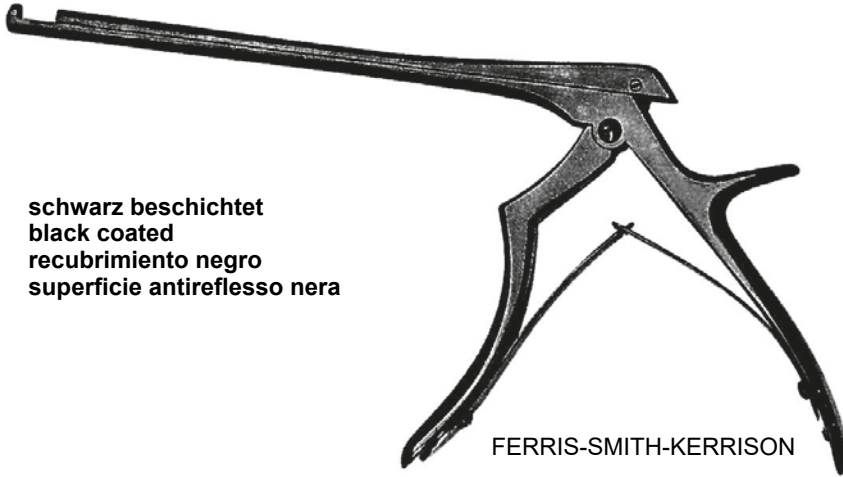
Bandscheibenstanzen
 Intervertebral Disc Rongeurs
 Pinzas sacabocado para discos intervertebrales
 Pinze taglienti per dischi intervertebrali



	90°		90°		90°		45°		45°
18 cm, 7"	41510-01	1 mm	41511-01	1 mm	41512-01	1 mm	41512-01	1 mm	41512-01
20 cm, 8"	41513-01	1 mm	41514-01	1 mm	41515-01	1 mm	41515-01	1 mm	41515-01
23 cm, 9"	41513-01-23	1 mm	41514-01-23	1 mm	41515-01-23	1 mm	41515-01-23	1 mm	41515-01-23
18 cm, 7"	41510-02	2 mm	41511-02	2 mm	41512-02	2 mm	41512-02	2 mm	41512-02
20 cm, 8"	41513-02	2 mm	41514-02	2 mm	41515-02	2 mm	41515-02	2 mm	41515-02
23 cm, 9"	41513-02-23	2 mm	41514-02-23	2 mm	41515-02-23	2 mm	41515-02-23	2 mm	41515-02-23
18 cm, 7"	41510-03	3 mm	41511-03	3 mm	41512-03	3 mm	41512-03	3 mm	41512-03
20 cm, 8"	41513-03	3 mm	41514-03	3 mm	41515-03	3 mm	41515-03	3 mm	41515-03
23 cm, 9"	41513-03-23	3 mm	41514-03-23	3 mm	41515-03-23	3 mm	41515-03-23	3 mm	41515-03-23
18 cm, 7"	41510-04	4 mm	41511-04	4 mm	41512-04	4 mm	41512-04	4 mm	41512-04
20 cm, 8"	41513-04	4 mm	41514-04	4 mm	41515-04	4 mm	41515-04	4 mm	41515-04
23 cm, 9"	41513-04-23	4 mm	41514-04-23	4 mm	41515-04-23	4 mm	41515-04-23	4 mm	41515-04-23
18 cm, 7"	41510-05	5 mm	41511-05	5 mm	41512-05	5 mm	41512-05	5 mm	41512-05
20 cm, 8"	41513-05	5 mm	41514-05	5 mm	41515-05	5 mm	41515-05	5 mm	41515-05
23 cm, 9"	41513-05-23	5 mm	41514-05-23	5 mm	41515-05-23	5 mm	41515-05-23	5 mm	41515-05-23

auch lieferbar mit Dünnpfuß und/oder mit Auswerfer
 also available with thin foot plate and/or with ejector
 tambien disponible con lámina de punzonar estrecha y/o con expulsor
 anche disponibile con morso sottile e/o con espulsore

Bandscheibenstanzen
 Intervertebral Disc Rongeurs
 Pinzas sacabocado para discos intervertebrales
 Pinze taglianti per dischi intervertebrali



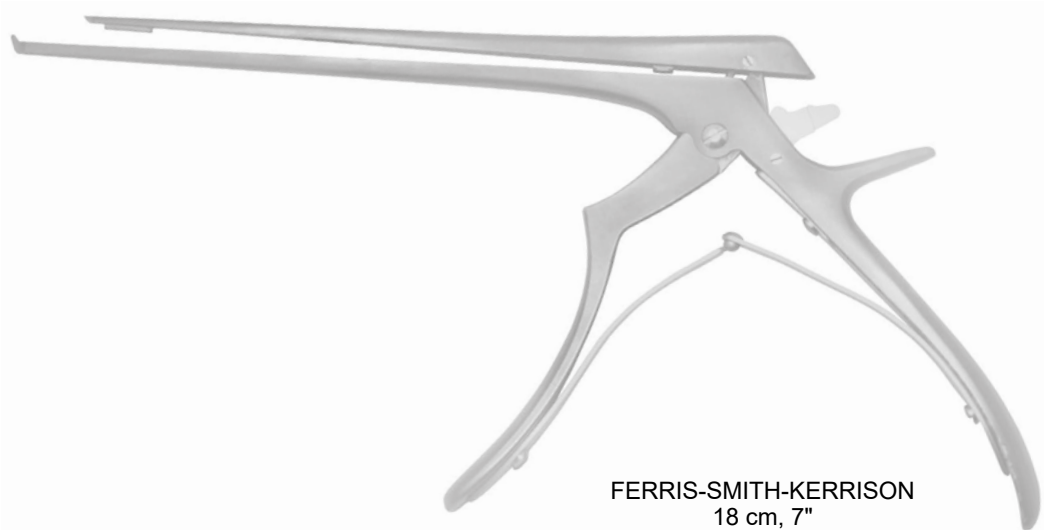
schwarz beschichtet
black coated
recubrimiento negro
superficie antireflesso nera

FERRIS-SMITH-KERRISON

	90°		45°
18 cm, 7"	41510-01B 1 mm		41512-01B 1 mm
20 cm, 8"	41513-01B 1 mm		41515-01B 1 mm
23 cm, 9"	41513-01-23B 1 mm		41515-01-23B 1 mm
18 cm, 7"	41510-02B 2 mm		41512-02B 2 mm
20 cm, 8"	41513-02B 2 mm		41515-02B 2 mm
23 cm, 9"	41513-02-23B 2 mm		41515-02-23B 2 mm
18 cm, 7"	41510-03B 3 mm		41512-03B 3 mm
20 cm, 8"	41513-03B 3 mm		41515-03B 3 mm
23 cm, 9"	41513-03-23B 3 mm		41515-03-23B 3 mm
18 cm, 7"	41510-04B 4 mm		41512-04B 4 mm
20 cm, 8"	41513-04B 4 mm		41515-04B 4 mm
23 cm, 9"	41513-04-23B 4 mm		41515-04-23B 4 mm
18 cm, 7"	41510-05B 5 mm		41512-05B 5 mm
20 cm, 8"	41513-05B 5 mm		41515-05B 5 mm
23 cm, 9"	41513-05-23B 5 mm		41515-05-23B 5 mm

auch lieferbar mit Dünnfuß und/oder mit Auswerfer
 also available with thin foot plate and/or with ejector
 tambien disponible con lámina de punzonar estrecha y/o con expulsor
 anche disponibile con morso sottile e/o con espulsore

Bandscheibenstanzen, zerlegbar
 Intervertebral Disc Rongeurs, dismantable
 Pinzas sacabocado para discos intervertebrales, desmontable
 Pinze taglianti per dischi intervertebrali, smontabile a fucile



FERRIS-SMITH-KERRISON
 18 cm, 7"

90°



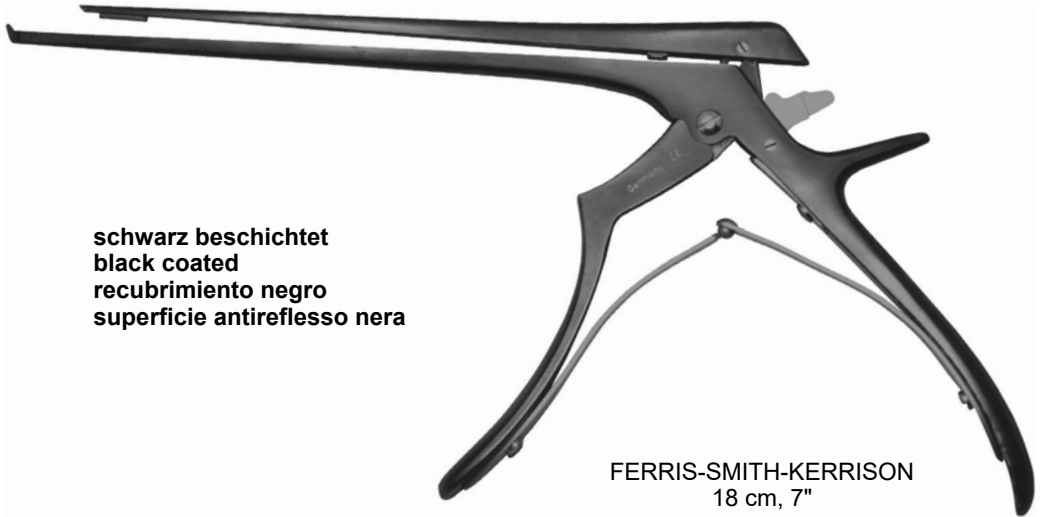
130°



18 cm, 7"	41540-01	1 mm	41542-01	1 mm
20 cm, 8"	41544-01	1 mm	41543-01	1 mm
23 cm, 9"	41544-01-23	1 mm	41543-01-23	1 mm
18 cm, 7"	41540-02	2 mm	41542-02	2 mm
20 cm, 8"	41544-02	2 mm	41543-02	2 mm
23 cm, 9"	41544-02-23	2 mm	41543-02-23	2 mm
18 cm, 7"	41540-03	3 mm	41542-03	3 mm
20 cm, 8"	41544-03	3 mm	41543-03	3 mm
23 cm, 9"	41544-03-23	3 mm	41543-03-23	3 mm
18 cm, 7"	41540-04	4 mm	41542-04	4 mm
20 cm, 8"	41544-04	4 mm	41543-04	4 mm
23 cm, 9"	41544-04-23	4 mm	41543-04-23	4 mm
18 cm, 7"	41540-05	5 mm	41542-05	5 mm
20 cm, 8"	41544-05	5 mm	41543-05	5 mm
23 cm, 9"	41544-05-23	5 mm	41543-05-23	5 mm

auch lieferbar mit Dünnfuß und/oder mit Auswerfer
 also available with thin foot plate and/or with ejector
 tambien disponible con lámina de punzonar estrecha y/o con expulsor
 anche disponibile con morso sottile e/o con espulsore

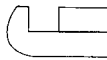
Bandscheibenstanzen, zerlegbar
 Intervertebral Disc Rongeurs, dismountable
 Pinzas sacabocado para discos intervertebrales, desmontable
 Pinze taglienti per dischi intervertebrali, smontabile a fucile



schwarz beschichtet
black coated
recubrimiento negro
superficie antireflesso nera

FERRIS-SMITH-KERRISON
 18 cm, 7"

90°



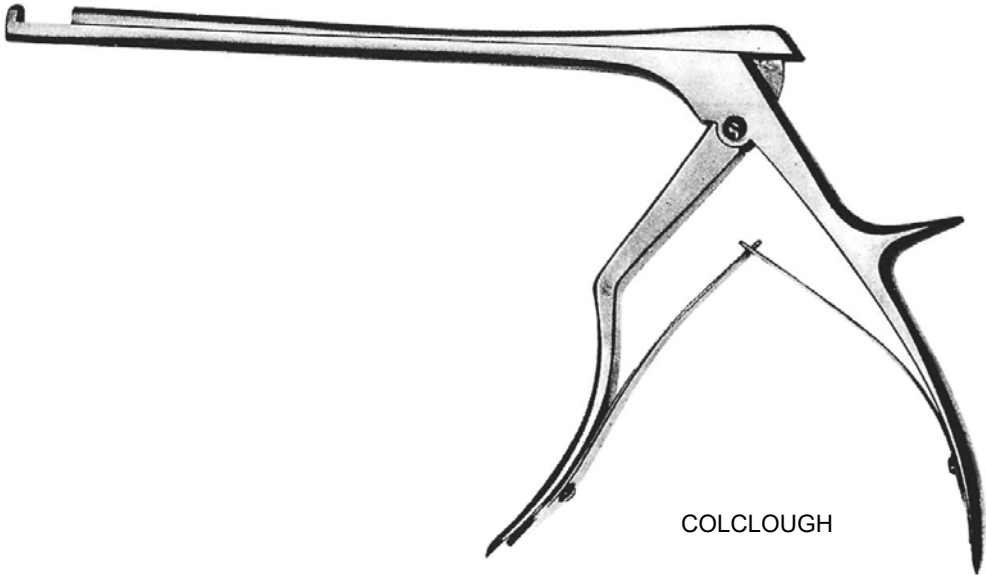
130°



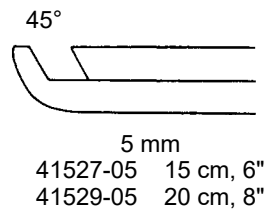
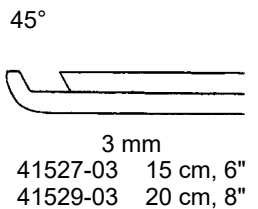
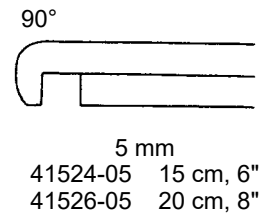
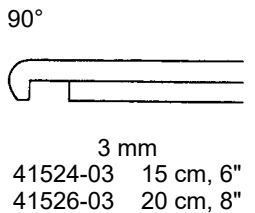
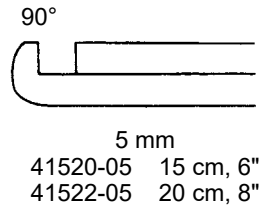
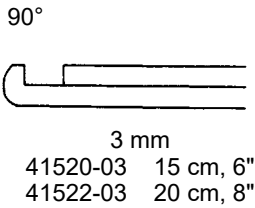
18 cm, 7"	41540-01B	1 mm	41542-01B	1 mm
20 cm, 8"	41544-01B	1 mm	41543-01B	1 mm
23 cm, 9"	41544-01-23B	1 mm	41543-01-23B	1 mm
18 cm, 7"	41540-02B	2 mm	41542-02B	2 mm
20 cm, 8"	41544-02B	2 mm	41543-02B	2 mm
23 cm, 9"	41544-02-23B	2 mm	41543-02-23B	2 mm
18 cm, 7"	41540-03B	3 mm	41542-03B	3 mm
20 cm, 8"	41544-03B	3 mm	41543-03B	3 mm
23 cm, 9"	41544-03-23B	3 mm	41543-03-23B	3 mm
18 cm, 7"	41540-04B	4 mm	41542-04B	4 mm
20 cm, 8"	41544-04B	4 mm	41543-04B	4 mm
23 cm, 9"	41544-04-23B	4 mm	41543-04-23B	4 mm
18 cm, 7"	41540-05B	5 mm	41542-05B	5 mm
20 cm, 8"	41544-05B	5 mm	41543-05B	5 mm
23 cm, 9"	41544-05-23B	5 mm	41543-05-23B	5 mm

auch lieferbar mit Dünnfuß und/oder mit Auswerfer
 also available with thin foot plate and/or with ejector
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 anche disponibile con morso sottile e/o con espulsore

Bandscheibenstanzen
 Intervertebral Disc Rongeurs
 Pinzas sacabocado para discos intervertebrales
 Pinze taglianti per dischi intervertebrali



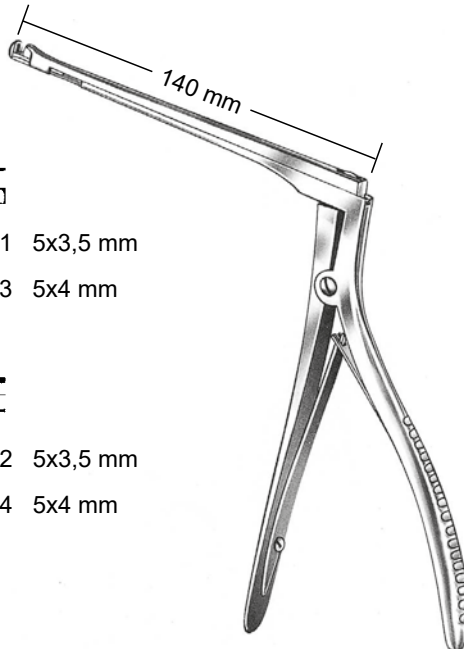
COLCLOUGH



Stanzen
Punches
Pinzas
Pinze-Punzoni



KERRISON
17 cm, 6³/₄"
3x3 mm 47303-03
4x4 mm 47303-04
5x5 mm 47303-05
6x6 mm 47303-06



⌒ 47304-01 5x3,5 mm

⌒ 47304-03 5x4 mm



⌒ 47304-02 5x3,5 mm

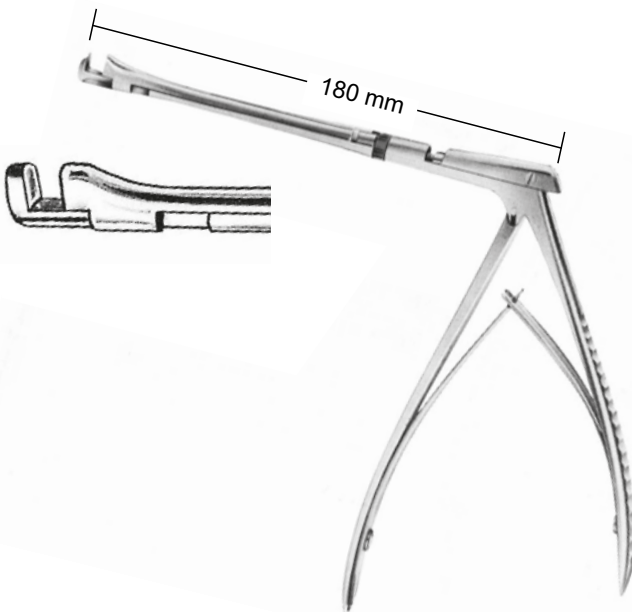
⌒ 47304-04 5x4 mm

HAJEK-KOFLER
47304-01 - 47304-04

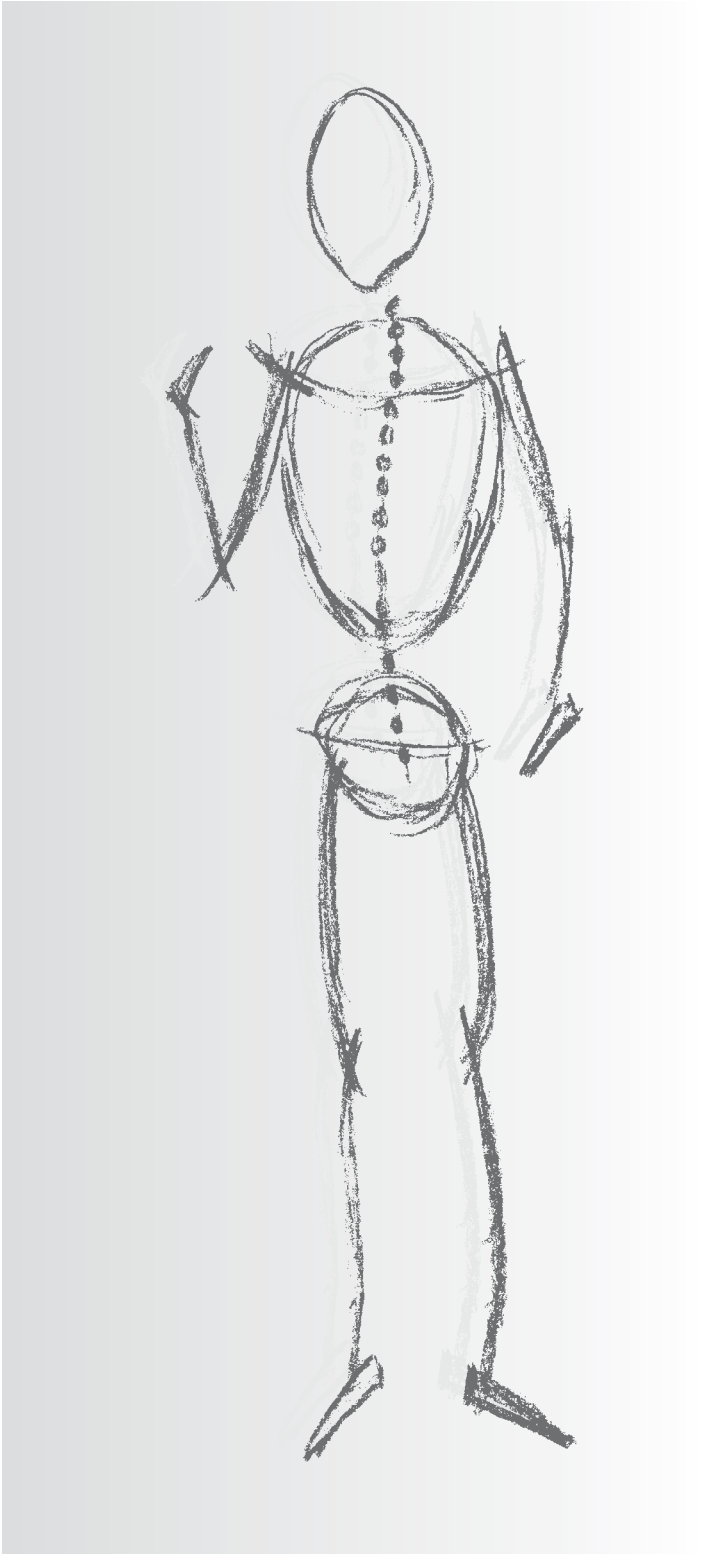
Stanzen
Punches
Pinzas
Pinze-Punzoni



CITELLI
47311-10 1,0 mm
47311-25 2,5 mm
47311-30 3,0 mm



HAJEK-KOFLER
47316-16
3,5 mm



Reda Instrumente GmbH
Gänsäcker 34 - P.O. Box 131
D-78532 Tuttlingen

BOHRAPPARATE

BONE HAND DRILLS

PERFORADORES DE MANO

PERFORATORI A MANO

Bohrapparate
Bone Hand Drills
Perforadores de mano
Perforatori a mano



34241-00
Griff allein
Handle only
Mango solo
Manico solo

HUDSON
34240-27
27 cm, 10½"
compl. incl.
34242-09, -14, -16, -22,
34246-00



34242-09
9 mm



34242-14
14 mm



34242-16
16 mm



34242-22
22 mm



34246-00

Verlängerungsstück
Extension piece
Pieza alargadera
Giunto di prolungamento



Ø 2 mm
34243-02



CUSHING
34244-10
34244-14
34244-16



ERRICO
34244-17
Ø 16 mm



MC KENZIE
34248-00
Ø 13 mm

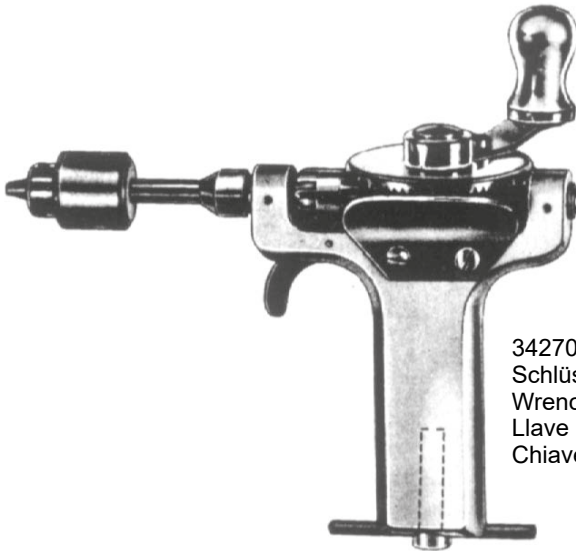
Bohrapparate
Bone Hand Drills
Perforadores de mano
Perforatori a mano

Bohrapparat 16 cm (6 ¼"), längsdurchbohrt mit Drei-
backenspannfutter und Schlüssel, Spannweite bis 4 mm

Hand drill, 16 cm (6 ¼"), longitudinally bored, with three-
jaw-chuck and key, opening up to 4 mm

Perforador manual, 16 cm (6 ¼"), taladrado
longitudinalmente, con mandril de tres mordazas y
llave, apertura hasta 4 mm

Perforatore a mano, 16 cm (6 ¼"), con perforazione
assiale, con mandrino a tre ganasce e chiave, apertura
fino a 4 mm di D.



34270-01
Schlüssel
Wrench
Llave
Chiave

BUNELL
34270-00
16 cm, 6¼"

Bohrapparate
Bone Hand Drills
Perforadores de mano
Perforatori a mano



RALK
34280-00

Bohrapparat mit Leichtmetallgehäuse,
mit Dreibackenspannfutter und
Schlüssel, Spannweite bis D. 6,35 mm

Hand drill with light metal case, with
three-jaw-chuck and key, opening up to
D. 6,35 mm

Perforador manual con caja de metal
ligero, con mandril de tres mordazas y
llave, apertura hasta Ø 6,35 mm

Perforatore a mano con cassa in metallo
leggero, con mandrino a tre ganasce e
chiave, apertura fino a 6,35 mm di D.



REDA
34290-00

Handbohrapparat mit umstellbarem
Handgriff, mit Jacobs Dreibackenspann-
futter und Schlüssel

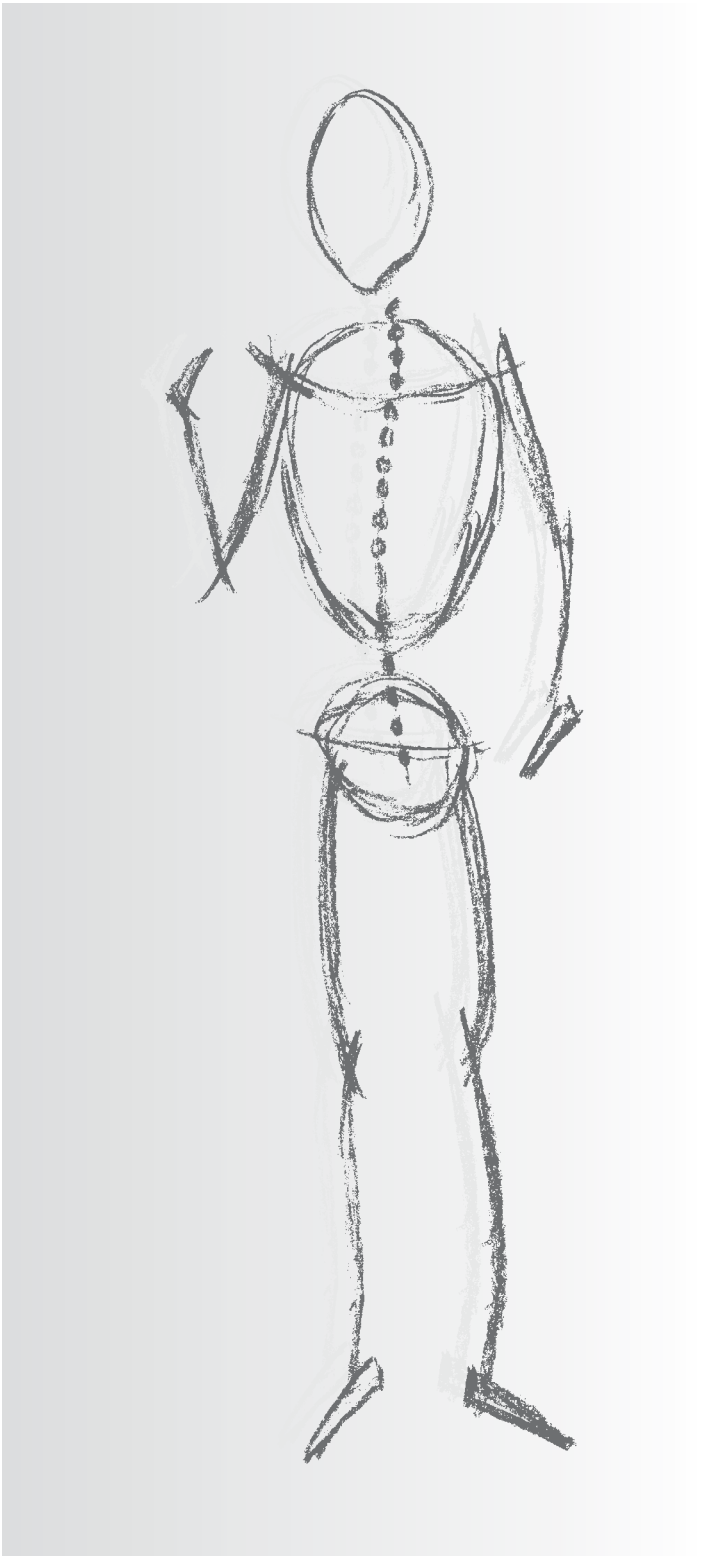
Hand drill with adjustable handle, with
Jacobs three-jaw-chuck and wrench

Perforador manual con mango ajustable,
con mandril Jacobs de 3 mordazas y
llave

Perforatore a mano con manico regola-
bile, con mandrino Jacobs a tre ganasce
complete con chiave



34295-00
Spannschlüssel allein
Key only
Llave sola
Chiave solo



Reda Instrumente GmbH
Gänsäcker 34 - P.O. Box 131
D-78532 Tuttlingen

BIPOLARE KOAGULATION

BIPOLAR COAGULATION

COAGULACIÓN BIPOLAR

COAGULAZIONE BIPOLARE

Bipolare Koagulation
Bipolar Coagulation
Coagulación bipolar
Coagulazione bipolare



91104-11
11 cm, 4³/₈"
0,5 mm



91109-11
11 cm, 4³/₈"
45°, 0,5 mm



91113-11
11 cm, 4³/₈"
45°, 0,5 mm



91122-16
16,5 cm, 6¹/₂"
0,5 mm



91123-16
16,5 cm, 6¹/₂"
0,5 mm



91125-16
16,5 cm, 6¹/₂"
0,5 mm

Bipolare Koagulation
Bipolar Coagulation
Coagulación bipolar
Coagulazione bipolare



91142-16
16 cm, 6¼"
0,3 mm



91144-16
16,5 cm, 6½"
0,5 mm



91146-16
16,5 cm, 6½"
1 mm



91152-19
19,5 cm, 7¾"
0,3 mm



91154-19
19,5 cm, 7¾"
1 mm



91157-19
19,5 cm, 7¾"
1 mm



91159-19
19,5 cm, 7¾"
2 mm



Bipolare Koagulation
Bipolar Coagulation
Coagulación bipolar
Coagulazione bipolare



91162-19
19,5 cm, 7³/₄"
0,3 mm



19,5 cm, 7³/₄"
91163-19 0,5 mm
91164-19 1,0 mm

Bipolare Koagulation
Bipolar Coagulation
Coagulación bipolar
Coagulazione bipolare



91166-19
19,5 cm, 7 $\frac{3}{4}$ "
2 mm



91172-03
0,3 mm

91172-07
0,7 mm

91172-12
1,2 mm

91172-03 - 91172-12
22,5 cm, 8.9"

Bipolare Koagulation
 Bipolar Coagulation
 Coagulación bipolar
 Coagulazione bipolare

NON STICK

gerade
 straight
 recta
 retta



	0,3 mm	0,5 mm	1,0 mm	2,0 mm
11,0 cm, 4 ³ / ₈ "	91110-03N	91110-05N	91110-10N	
16,0 cm, 6 ¹ / ₄ "	91160-03N	91160-05N	91160-10N	91160-20N
18,0 cm, 7"		91180-05N	91180-10N	91180-20N
19,5 cm, 7 ³ / ₄ "		91200-05N	91200-10N	91200-20N
22,0 cm, 8 ³ / ₄ "			91220-10N	91220-20N
24,0 cm, 9 ¹ / ₂ "			91240-10N	
30,0 cm, 12"			91300-10N	91300-20N

abgewinkelt 45°
 angled 45°
 angulada 45°
 angolata 45°



	0,3 mm	0,5 mm	1,0 mm	2,0 mm
11,0 cm, 4 ³ / ₈ "	91112-03N	91112-05N	91112-10N	
16,0 cm, 6 ¹ / ₄ "		91162-05N	91162-10N	
18,0 cm, 7"			91182-10N	91182-20N
19,5 cm, 7 ³ / ₄ "		91202-05N	91202-10N	91202-20N
22,0 cm, 8 ³ / ₄ "			91222-10N	91222-20N
24,0 cm, 9 ¹ / ₂ "			91242-10N	
30,0 cm, 12"			91302-10N	

NON STICK

Bipolare Koagulation
Bipolar Coagulation
Coagulación bipolar
Coagulazione bipolare

bayonett gerade
bajonett straight
bayoneta recta
baionetta retta



	0,3 mm	0,5 mm	1,0 mm	2,0 mm
16,0 cm, 6¼"	91166-03N	91166-05N	91166-10N	91166-20N
19,5 cm, 7¾"		91206-05N	91206-10N	91206-20N
22,0 cm, 8¾"		91226-05N	91226-10N	91226-20N
24,0 cm, 9½"		91246-05N	91246-10N	91246-20N

bayonett nach oben
bajonett upwards
bayoneta hacia arriba
baionetta in alto



	1,0 mm
19,5 cm, 7¾"	91207-10N
22,0 cm, 8¾"	91227-10N

bayonett nach unten
bajonett downwards
bayoneta hacia abajo
baionetta in basso



	0,5 mm	1,0 mm
16,0 cm, 6¼"	91168-05N	91168-10N
19,5 cm, 7¾"		91208-10N
22,0 cm, 8¾"		91228-10N

Bipolare Saugpinzetten
Bipolar suction Forceps
Pinza de succión bipolar
Pinza bipolare con canale di aspirazione

Saugpinzetten zum Absaugen von Blut und Sekret vor der Koagulation bzw. zum Absaugen von Rauch während der Koagulation.

Europäischer Flachstecker zum Anschluß von bipolaren Kabeln für praktisch alle gebräuchlichen HF-Generatoren.

Der Saugkanal mit Unterbrecherloch ist in einem Schenkel der Pinzette integriert.

An der Schlaucholive können verschiedene Schlauchdurchmesser angeschlossen werden.

Suction forceps for extraction of blood and debris by suction right before coagulation or extraction of smoke while coagulating.

European flat socket connector for bipolare cables for nearly all common high frequency generators. Suction channel embedded inside the forceps.

Suction connector matches different suction tube diameters.



Pinza de succión para sangre y líquidos antes de efectuar la coagulación como también para la eliminación de humo durante la coagulación. Enchufe plano europeo para conectar cables bipolares de equipos de alta frecuencia en uso corrientemente.

El canal de succión con su agujero de interrupción está incorporado en un lado de la pinza.

El diseño de la oliva de conexión permite la adaptación de tubos de varios diámetros.

Pinza bipolare dotata di canale di aspirazione. Per aspirare fumi, sangue ecc. durante la coagulazione. Attacco piatto per cavi bipolari con attacchi europei.

Il canale di aspirazione con interruzione é integrato sulla aletta della pinza.





Ingresso del canale di aspirazione ad oliva che permette attacchi di diversi diametri.

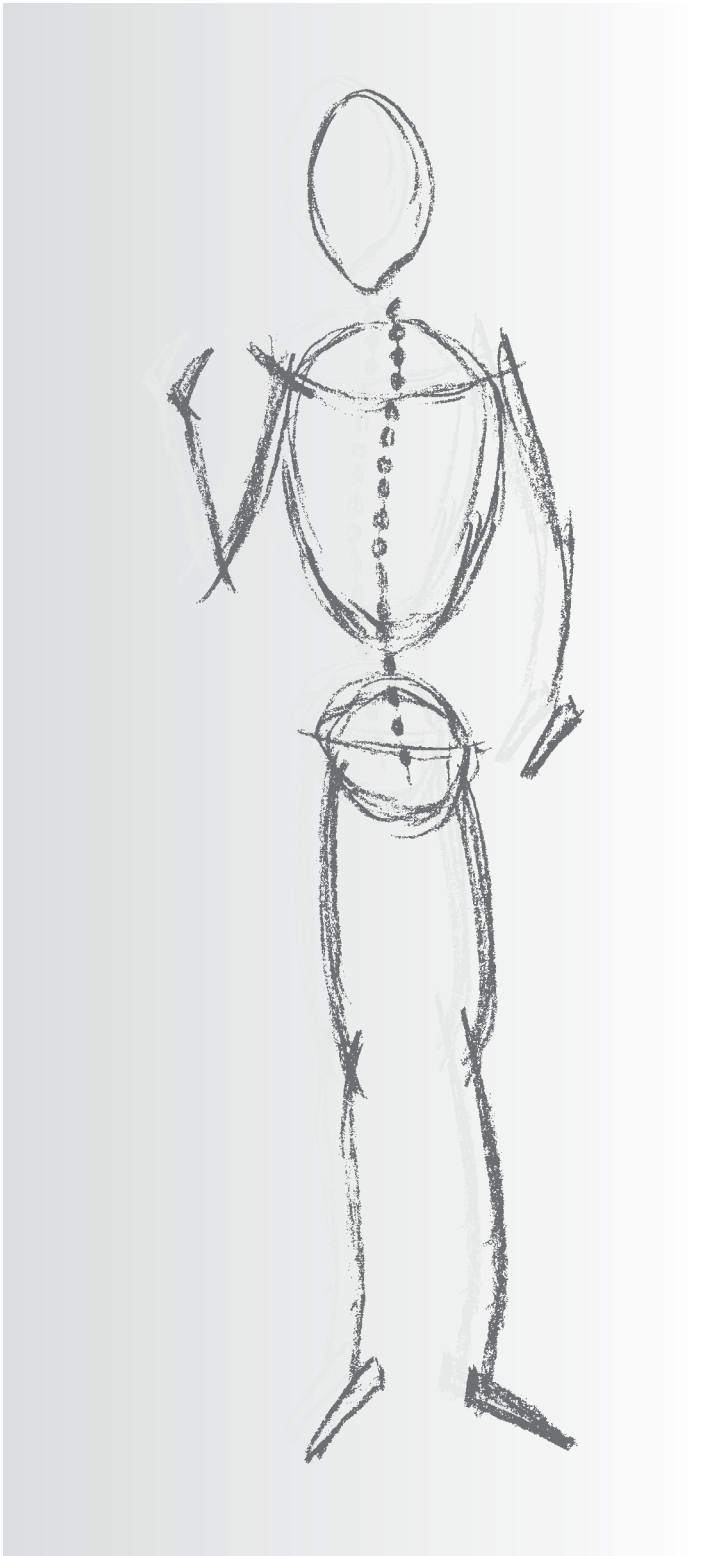
Bipolare Verbindungskabel
 Bipolar connecting cables
 Cables de conexión bipolares
 Cavi di collegamento bipolari

Bipolar

Geräte seite
 Unit / Equipment side
 Lado de la unidad/equipamiento
 Unità / Lato equipaggiamento

Instrumentenseite
 Instrument side
 Lado de los instrumentos
 Lato strumento

	Kabellänge Meter Cable length Meter Longitud del cable Midor Misuratore della lunghezza del cavo	Europa-Flachstecker Europe flat plug El enchufe plano de Europa Spina piatta Europa
Erbe / Storz 12,5 mm Ø 	3	R065-040125-003
	5	R065-040125-005
Martin / Berchtold 8 mm Ø AESCULAP Wolf 	3	R065-020080-003
	5	R065-020080-005
Valleylab / Lamidey / EMC 	3	R065-040285-003
	5	R065-040285-005
2-Pin U.S. Standard Eschmann 	3	R065-040000-003
	5	R065-040000-005



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CLIPS

CLIPS

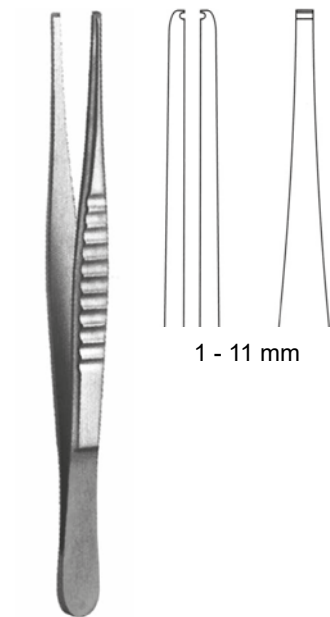
CLIPS

CLIPS PER ANEURISMA

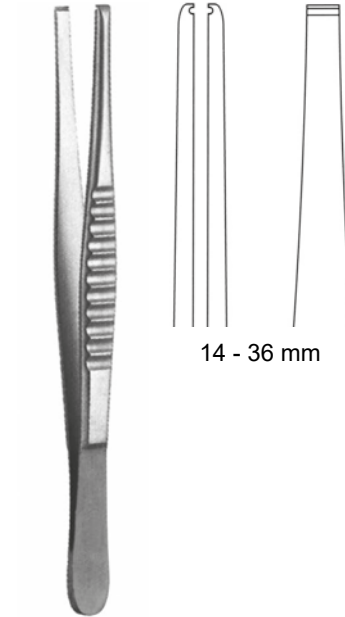
ACLAND Mikro-Gefäßclips
 ACLAND Micro Vessel Clips
 ACLAND Micro Clips vasculares
 ACLAND Micro Clips vascolari

	Klemmen Nr. 1 Clamp No. 1 Pinza No.1 Morsetto n.1	Klemmen Nr. 2 Clamp No. 2 Pinza No.2 Morsetto n.2	Klemmen Nr. 3 Clamp No. 3 Pinza No.3 Morsetto n.3	Klemmen Nr. 4 Clamp No. 4 Pinza No.4 Morsetto n.4	Klemmen Nr. 5 Clamp No. 5 Pinza No.5 Morsetto n.5
Länge / Length Longitud / Lunghezza	8 mm	11 mm	16 mm	24 mm	35 mm
Gefäß-Ø / Vessel Ø Recipiente Ø / Della nave Ø	0,3 - 1,0 mm	0,6 - 1,4 mm	1,0 - 2,2 mm	1,5 - 3,3 mm	2,0 - 5,0 mm
Einzelklemmen Single Clamps Single clamp Pinza singola					
	41710-08 A 41711-08 V	41710-11 A 41711-11 V	41710-17 A 41711-17 V	41718-25 A 41719-25 V	41718-36 A 41719-36 V
Approximator ohne Rahmen Approximator without frame Aproximador sin marco Apressimatore senza telaio					
	41712-08 A 41713-08 V	41712-11 A 41713-11 V	41712-17 A 41713-17 V	41720-25 A 41721-25 V	41720-36 A 41721-36 V
Doppelklemme mit Rahmen Double Clamps with Frame Clamp doble con marco Pinza doppia con telaio					
	41714-08 A 41715-08 V	41714-11 A 41715-11 V	41714-17 A 41715-17 V		
Approximator mit Rahmen Approximator with frame Aproximador con marco Apressimatore con telaio				A = Arterie/Artery CURVED JAW 	
	41716-08 A 41717-08 V	41716-11 A 41717-11 V	41716-17 A 41717-17 V		
Approximator mit Rahmen Approximator with frame Aproximador con marco Apressimatore con telaio				V = Vene/Vein STRAIGHT JAW 	
	41719-08 A 41721-08 V	41719-11 A 41721-11 V	41719-17 A 41721-17 V		

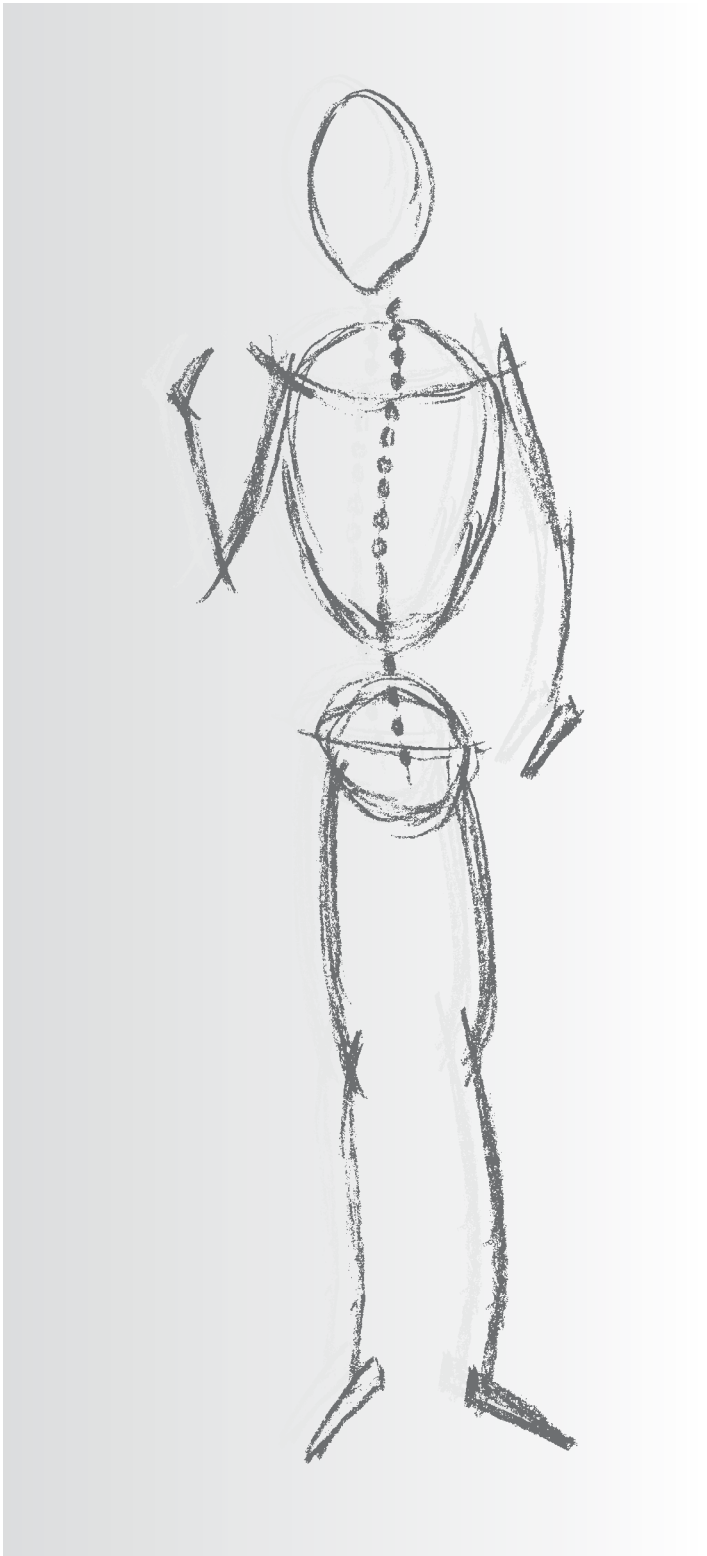
Clip-Anlegepinzetten für ACLAND-Clips
Clip Applying Forceps for ACLAND clips
Pinzas aplicadora para clips ACLAND
Pinze per applicare clips di ACLAND



ACLAND
41730-15
14,5 cm, 5 $\frac{3}{4}$ "



ACLAND
41731-15
14,5 cm, 5 $\frac{3}{4}$ "



Reda Instrumente GmbH
Gänsäcker 34 - P.O. Box 131
D-78532 Tuttlingen

SÄTZE

SET

SET

SET

Set / 200 Basic Set for Neurosurgery - Neurochirurgie Set

1x	07103-00	scalpel handle no. 3
1x	07107-00	scalpel handle no. 7
1x	07104-00	scalpel handle no. 4
1x	09160-17	MAYO, dissecting scissors, str., 17cm
1x	09161-17	MAYO, dissecting scissors, cvd., 17cm
1x	09280-18	METZENBAUM, dissecting scissors, str., 18cm
1x	11112-18	POTTS-SMITH, dressing forceps, 18cm
1x	11126-18	POTTS-SMITH, tissue forceps, 1x2 teeth, 18cm
1x	11189-15	BROWN, tissue forceps, 9x9 teeth, 15cm
1x	11315-01	TAYLOR, dressing forceps, bayonet, 17cm
1x	11315-02	TAYLOR, tissue forceps, 1x2 teeth, bayonet, 17cm
1x	41295-10	FRAZIER/FERGUSSON, suction tube, 30°, 19cm
2x	25214-18	DeBAKEY, needle holder TC, 18cm
2x	25225-18	RYDER, needle holder TC, 18cm
10x	13220-12	HALSTED-MOSQUITO, hemostatic forceps, str., 12,5cm
6x	13345-14	DANDY, hemostatic forceps, cvd., 14cm
6x	13320-14	ROCHESTER-OCHSNER, hemostatic forceps, 1x2 teeth, str., 14cm
10x	15111-09	BACKHAUS, towel forceps, 9cm
2x	17170-18	FOERSTER, swab forceps, str., 18cm
1x	19214-13	FRAZIER, nerve hooklet, 13cm
1x	19168-06	RIBBON, retractor, 6x200mm
1x	19168-12	RIBBON, retractor, 12x200mm
1x	19168-17	RIBBON, retractor, 17x200mm
1x	19168-25	RIBBON, retractor, 25x200mm
2x	19670-16	WEITLANER, retractor, 16,5cm
2x	19684-16	ADSON-BABY, retractor, 16cm
1x	33711-20	LANGENBECK, periosteal elevator, 20cm
1x	33142-20	ADSON, bone rongeur, str., 20cm
1x	33247-23	LEKSELL-STILLE, bone rongeur, 23cm / 4mm
1x	33245-23	LEKSELL-STILLE, bone rongeur, 23cm / 7mm
6x	65120-15	ALLIS, tissue forceps, 5x6 teeth, 15cm
1x	41512-02	FERRIS-SMITH-KERRISON, rongeur, 45° up, 2mm, 18cm
1x	41512-03	FERRIS-SMITH-KERRISON, rongeur, 45° up, 3mm, 18cm
1x	41512-04	FERRIS-SMITH-KERRISON, rongeur, 45° up, 4mm, 18cm
1x	41432-01	LOVE-GRUENWALD, laminectomy rongeur, str., 3x10mm, 18cm
1x	41432-02	LOVE-GRUENWALD, laminectomy rongeur, 45° up, 3x10mm, 18cm
1x	41432-03	LOVE-GRUENWALD, laminectomy rongeur, 45° down, 3x10mm, 18cm
1x	41254-13	DAVIS, brain spatula, 13mm, 18cm
1x	41161-01	PENFIELD, dura dissector, 17,5cm
1x	41161-02	PENFIELD, dura dissector, 19,5cm
1x	41161-03	PENFIELD, dura dissector, 19,5cm
1x	41161-04	PENFIELD, dura dissector, 21,5cm
1x	41298-12	FRAZIER, canula, 3mm, 12cm
1x	41052-20	DANDY, nerve hook, str., 20cm
1x	19235-21	CUSHING, retractor, 21,5cm
1x	34231-15	ADSON, forceps, 15cm
2x	41094-00	GIGLI, handle for wire saw
5x	41092-50	OLIVECRONA, wire saw, 50cm
1x	41090-33	DE MARTEL, saw conductor, 33cm

Set / 201 Craniotomy Set - Kraniotomie Set

1x	07103-00	scalpel handle no. 3
1x	07107-00	scalpel handle no. 7
1x	07104-00	scalpel handle no. 4
1x	09140-14	DEAVER, dissecting scissors, str., 14,5cm
1x	09160-17	MAYO, dissecting scissors, str., 17cm
1x	09161-17	MAYO, dissecting scissors, cvd., 17cm
1x	09281-18	METZENBAUM, dissecting scissors, cvd., 18cm
2x	11170-12	ADSON, dressing forceps, 12cm
2x	11180-12	ADSON, tissue forceps, 1x2 teeth, 12cm
1x	11220-17	CUSHING, dressing forceps, str., 17cm
1x	11222-17	CUSHING, tissue forceps, str., 1x2 teeth, 17cm
1x	11315-01	TAYLOR, dressing forceps, bayonet, 17cm
1x	11315-02	TAYLOR, tissue forceps, 1x2 teeth, bayonet, 17cm
2x	41295-08	FRAZIER/FERGUSON, suction tube, 30°, Charr. 8, 19cm
10x	13220-12	HALSTED-MOSQUITO, hemostatic forceps, str., 12,5cm
10x	13221-12	HALSTED-MOSQUITO, hemostatic forceps, cvd., 12cm
10x	13345-14	DANDY, hemostatic forceps, cvd., 14cm
10x	15111-13	BACKHAUS, towel forceps, 13cm
5x	17170-25	FOERSTER, swab forceps, str., 25cm
2x	19235-21	CUSHING, retractor, 21,5cm
2x	19214-13	FRAZIER, nerve hooklet, 13cm
1x	19630-10	JANSEN, retractor, 10cm
2x	19670-20	WEITLANER, retractor, 20cm
1x	33483-00	BRUNS, bone curette, Fig.0, str., 23cm
1x	33483-01	BRUNS, bone curette, Fig.1, str., 23cm
1x	33483-02	BRUNS, bone curette, Fig.2, str., 23cm
1x	33483-03	BRUNS, bone curette, Fig.3, str., 23cm
1x	33137-17	LUER, bone rongeur, cvd., 17cm
1x	33151-16	LEMPERT, bone rongeur, cvd., 16cm
1x	33230-22	STILLE-LUER, bone rongeur, str., 22cm
1x	33231-22	STILLE-LUER, bone rongeur, cvd., 22cm
1x	41096-21	DeVILBIS, skull punch, 21cm
1x	41432-01	LOVE-GRUENWALD, laminectomy rongeur, str., 3x10mm, 18cm
1x	41432-02	LOVE-GRUENWALD, laminectomy rongeur, 45° up, 3x10mm, 18cm
1x	41432-03	LOVE-GRUENWALD, laminectomy rongeur, 45° down, 3x10mm, 18cm
1x	09619-17	SCHMIEDEN-TAYLOR, dura scissors, 17cm
1x	41254-13	DAVIS, brain spatula, 13mm, 18cm
1x	41250-11	CUSHING, brain spatula, 8x10mm
1x	41253-11	OLIVECRONA, brain spatula, 11mm/13mm
1x	41158-01	FRAZIER, dura dissector, 15cm
2x	41298-12	FRAZIER, canula 3mm/12cm
1x	41052-20	DANDY, nerve hook, str., 20cm
1x	19234-20	CUSHING, retractor, 20cm
1x	34240-27	HUDSON, bone hand drill, 27cm
1x	34231-15	ADSON, forceps, 15cm
2x	41094-00	GIGLI, handle for wire saw
10x	41092-50	OLIVECRONA, wire saw, 50cm
2x	41090-33	DeMARTEL, saw conductor, 33cm
1x	41028-00	RANEY, applying forceps
1x	91162-19	bipolar forceps, 0,3mm, 19,5cm
1x	91193-30	bipolar connecting cable, 3 meter

Set / 202 Laminectomy Set - Laminektomie Set

1x	07103-00	scalpel handle no. 3
1x	07104-00	scalpel handle no. 4
1x	09140-14	DEAVER, dissecting scissors, str., 14,5cm
1x	09160-17	MAYO, dissecting scissors, str., 17cm
1x	09161-17	MAYO, dissecting scissors, cvd., 17cm
1x	09281-18	METZENBAUM, dissecting scissors, cvd., 18cm
2x	11102-14	dressing forceps, 14,5cm
1x	11102-20	dressing forceps, 20cm
2x	11120-14	tissue forceps, 1x2 teeth, 14,5cm
1x	11120-20	tissue forceps, 1x2 teeth, 20cm
1x	11220-17	CUSHING, dressing forceps, str., 17cm
1x	11222-17	CUSHING, tissue forceps, str., 1x2 teeth, 17cm
1x	11315-01	TAYLOR, dressing forceps, bayonet, 17cm
1x	11315-02	TAYLOR, tissue forceps, 1x2 teeth, bayonet, 17cm
1x	41295-08	FRAZIER/FERGUSSON, suction tube, 30°, Charr.8, 19cm
1x	41295-10	FRAZIER/FERGUSSON, suction tube, 30°, Charr. 10, 19cm
1x	41295-12	FRAZIER/FERGUSSON, suction tube, 30°, Charr. 12, 19cm
2x	25180-16	MAYO-HEGAR, needle holder, 16cm
10x	13220-12	HALSTED-MOSQUITO, hemostatic forceps, str., 12,5cm
10x	13221-12	HALSTED-MOSQUITO, hemostatic forceps, cvd., 12cm
6x	13263-16	CRILE-RANKIN, hemostatic forceps, cvd., 16cm
6x	13265-16	CRILE-RANKIN, hemostatic forceps, 1x2 teeth, cvd., 16cm
5x	17170-25	FOERSTER, swab forceps, str., 25cm
2x	19235-21	CUSHING, retractor, 21,5cm
2x	19281-04	VOLKMANN, retractor, 4 teeth, 21,5cm
2x	19670-20	WEITLANER, retractor, sharp, 20cm
1x	19686-32	ADSON, retractor, blunt, 32cm
1x	19690-31	BECKMANN, retractor, sharp, 31cm
1x	33711-20	LANGENBECK, elevator, 8mm, 20cm
1x	33710-19	LANGENBECK, elevator, 16mm, 19cm
1x	33700-03	BERGMANN, hammer, Ø 45mm, 300 gr., 24cm
1x	33482-98	BRUNS, bone curette, Fig.00, str., 23cm
1x	33483-00	BRUNS, bone curette, Fig.0, str., 23cm
1x	33483-01	BRUNS, bone curette, Fig.1, str., 23cm
1x	33483-02	BRUNS, bone curette, Fig.2, str., 23cm
1x	33483-03	BRUNS, bone curette, Fig.3, str., 23cm
1x	33483-04	BRUNS, bone curette, Fig.4, str., 23cm
1x	33483-05	BRUNS, bone curette, Fig.5, str., 23cm
1x	33483-06	BRUNS, bone curette, Fig.6, str., 23cm
1x	33136-17	LUER, bone rongeur, str., 17cm
1x	33231-22	STILLE-LUER, bone rongeur, cvd., 22cm
1x	33235-23	STILLE-LUER, bone rongeur, 23cm
1x	33293-27	STILLE-HORSLEY, bone cutting forceps, 27cm
1x	33290-27	STILLE-LISTON, bone cutting forceps, 27cm
5x	65120-15	ALLIS, tissue forceps, 5x6 teeth, 15cm
1x	41512-02	FERRIS-SMITH-KERRISON, 45° up, 2mm, 18cm
1x	41512-03	FERRIS-SMITH-KERRISON, 45° up, 3mm, 18cm
1x	41512-04	FERRIS-SMITH-KERRISON, 45° up, 4mm, 18cm
1x	41432-01	LOVE-GRUENWALD, laminectomy rongeur, str., 3x10mm, 18cm
1x	41432-02	LOVE-GRUENWALD, laminectomy rongeur, 45° up, 3x10mm, 18cm
1x	41432-03	LOVE-GRUENWALD, laminectomy rongeur, 45° down, 3x10mm, 18cm

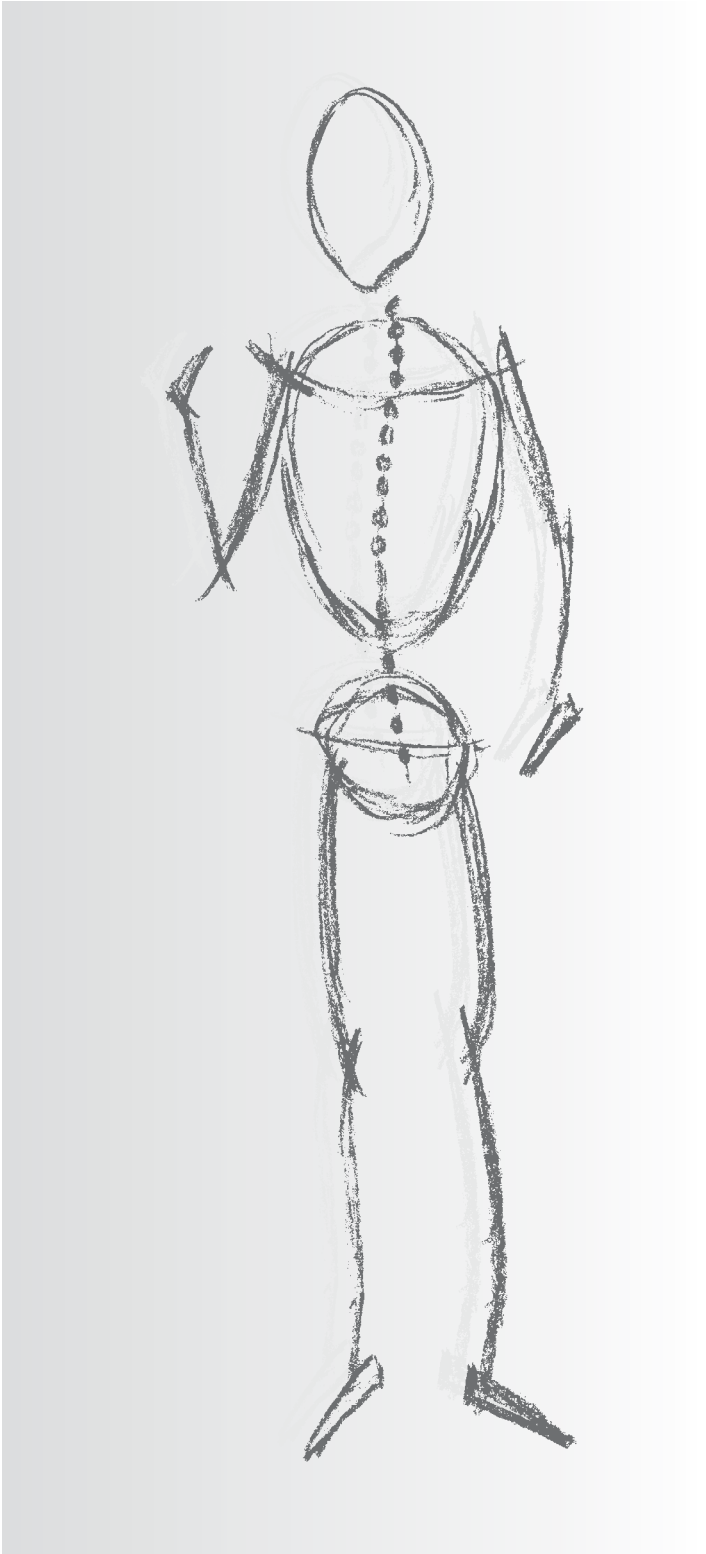
1x	41151-24	DAVIS, dura dissector, 24cm
1x	47415-18	FREER, septum elevator, 18cm
1x	41161-00	PENFIELD, dura dissector, 17,5cm
1x	41161-02	PENFIELD, dura dissector, 19,5cm
1x	41161-03	PENFIELD, dura dissector, 19,5cm
1x	41161-04	PENFIELD, dura dissector, 21,5cm
1x	41052-20	DANDY, nerve hook, str., 20cm
1x	41056-18	CUSHING, nerve hook, 18cm
1x	41074-23	SCOVILLE, retractor, str., 23cm
1x	19911-00	SCOVILLE, frame only, 15cm
1x	19912-50	SCOVILLE, hook only, 50mm
1x	19917-64	SCOVILLE, blade only, 64x25mm
1x	41020-00	clip carrier with 1 holder
1x	41019-14	OLIVECRONA-TOENNIS, 140mm
1x	91162-19	bipolar forceps, 0,3mm, 19,5cm
1x	91193-30	bipolar connecting cable, 3 meter

Set / 203 Skull Traction Set - Schädel Traktion Set

1x	07103-00	scalpel handle no. 3
1x	09160-14	MAYO, dissecting scissors, str., 14,5cm
1x	11120-14	tissue forceps, 1x2 teeth, 14,5cm
1x	13220-12	HALSTED-MOSQUITO, hemostatic forceps, str., 12,5cm
1x	13221-12	HALSTED-MOSQUITO, hemostatic forceps, cvd., 12cm
2x	17170-25	FOERSTER, swab forceps, str., 25cm
1x	41025-02	CRUTCHFIELD, traction long
1x	34240-27	HUDSON, bone hand drill, complete, 27cm
6x	15111-09	BACKHAUS, towel forceps, 9cm

Set / 204 Transphenoidal Hypophysectomy Set - Transphenoidal Hypophysektomie Set

2x	07103-00	scalpel handle no. 3
1x	07104-00	scalpel handle no. 4
1x	09120-14	operating scissors, standard, str., 14cm
1x	11110-14	dressing forceps, narrow, 14cm
1x	09375-11	STRABISMUS, scissors TC, cvd., 11cm
1x	11170-12	ADSON, dressing forceps, 12cm
1x	11180-12	ADSON, tissue forceps, 1x2 teeth, 12cm
1x	47154-20	JANSEN, nasal forceps, 20cm
2x	41295-08	FRAZIER/FERGUSSON, suction tube, 30°, Charr. 8, 19cm
2x	41295-10	FRAZIER/FERGUSSON, suction tube, 30°, Charr. 10, 19cm
2x	41295-12	FRAZIER/FERGUSSON, suction tube, 30°, Charr. 12, 19cm
2x	25144-13	HALSEY, needle holder TC, 13cm
2x	13221-12	HALSTED-MOSQUITO, hemostatic forceps, cvd., 12cm
2x	13211-10	HARTMANN, hemostatic forceps, cvd., 10cm
2x	13475-14	MIXTER-BABY, hemostatic forceps, 14cm
2x	19160-17	SENN-MILLER, retractor, 3 teeth, 17cm
6x	15111-13	BACKHAUS, towel forceps, 13cm
2x	17170-25	FOERSTER, swab forceps, str., 25cm
2x	19221-03	nerve and wound hooks, 3 prongs, 16cm
1x	41522-03	COLCLOUGH, disc rongeur, 90° up, 3mm, 20cm
1x	41512-02	FERRIS-SMITH-KERRISON, rongeur, 45° up, 2mm, 18cm
1x	41512-03	FERRIS-SMITH-KERRISON, rongeur, 45° up, 3mm, 18cm
1x	41422-01	CUSHING, laminectomy rongeur, str., 2x10mm, 18cm
1x	41432-01	LOVE-GRUENWALD, laminectomy rongeur, str., 3x10mm, 18cm
1x	41432-02	LOVE-GRUENWALD, laminectomy rongeur, 45° up, 3x10mm, 18cm
1x	41442-01	SPURLING, laminectomy rongeur, str., 4x10mm, 18cm
1x	41254-13	DAVIS, brain spatula, 13mm, 18cm
1x	41447-27	LANDOLT, tumor grasping forceps, Ø 9mm, 27cm
1x	93670-01	HARDY, enucleator, blunt, right, 24,5cm
1x	93670-09	HARDY, implant fork, 24,5cm
1x	93700-06	HARDY, curette, malleable, 6mm, 26cm
1x	93660-01	NICOLA, curette, malleable, 6,5mm, right, 21,5cm
1x	93660-02	NICOLA, curette, malleable, 6,5mm, left, 21,5cm
1x	93660-03	NICOLA, curette, malleable, 6,5mm, 21,5cm
1x	93600-01	CUSHING-LANDOLT, specula, 70x15mm
1x	93600-02	CUSHING-LANDOLT, specula, 90x15mm
1x	93605-21	LANDOLT, spreader for specula, 21cm
1x	93710-03	LANDOLT-REULEN, raspatory, 2,2mm, 26cm
1x	93710-04	LANDOLT-REULEN, raspatory, 3,2mm, 26cm
1x	93710-07	LANDOLT-REULEN, dissector, 2,0mm, 26cm
1x	93720-02	NICOLA, forceps, scoop-shaped, str., 16,5cm
1x	93720-04	NICOLA, grasping forceps, str., 16,5cm
1x	93720-03	NICOLA, micro scissors, str., 16,5cm
1x	93630-04	COTTLE, chisel, 4mm, 18,5cm
1x	33700-05	COTTLE, hammer, Ø 30mm, 240 gr., 18cm



Reda Instrumente GmbH
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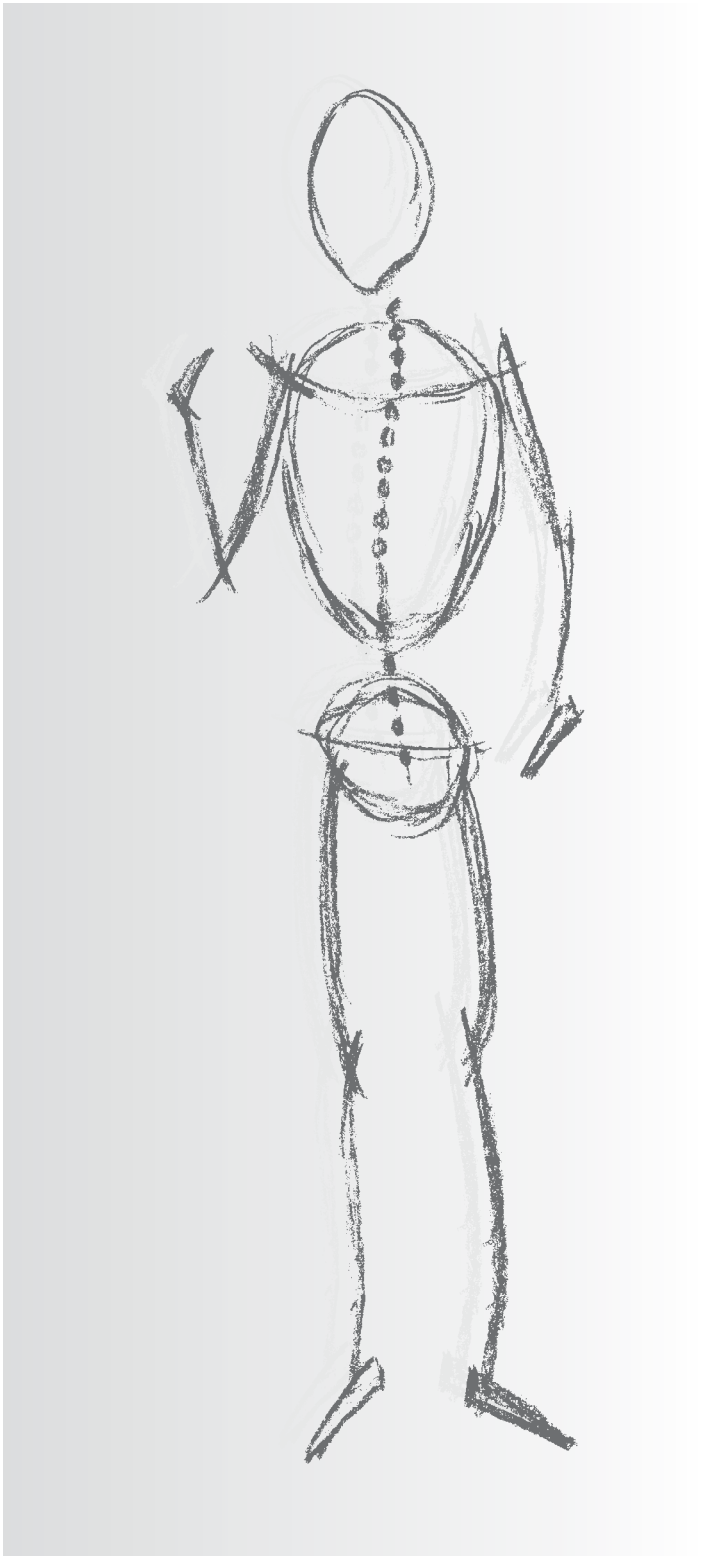
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