

## OPEN SURGERY



**Knochenchirurgie**

**Bone Surgery**

Chirurgia ósea

Chirurgie osseuse

Chirurgia osseas

# 190

**Gipsmesser; Gipssäge**  
**Plaster Knives; Plaster Saws**

Cuchillos para yeso; Sierras para yeso  
Couteaux pour plâtre; Scies pour plâtre  
Coltelli per gesso; Seghe per gesso



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
190-130-20	<b>HOPKINS</b>	20,0 cm; 7 7/8"	

mit Holzheft | with wooden handle

con mango de madera | avec manche en bois | con manico di legno



90-160-14	<b>ENGEL</b>	15,0 cm; 5 7/8"	
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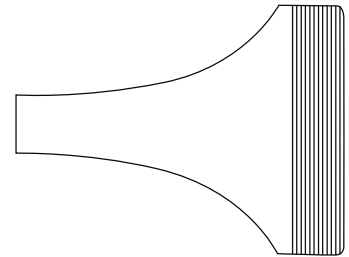


**Gipsspreizer; Gipsabreißzangen**  
**Plaster Spreaders; Plaster Breakers**

Separadores para yeso; Pinzas para romper yeso  
 Pincés pour plâtre; Pincés pour rompre plâtre  
 Pinze per gesso; Pinze per rompere gesso

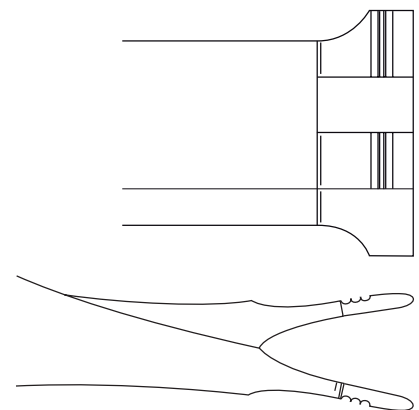


Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
190-200-28	<b>HENNING</b>	28,0 cm; 11"	



1/1

190-220-23	<b>MODELL USA</b>	23,0 cm; 9"	
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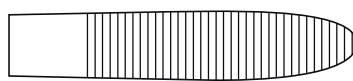


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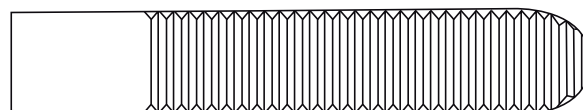
**WOLFF**



190-204-18	18,0 cm; 7"
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190-204-24	24,0 cm; 9 4/8"
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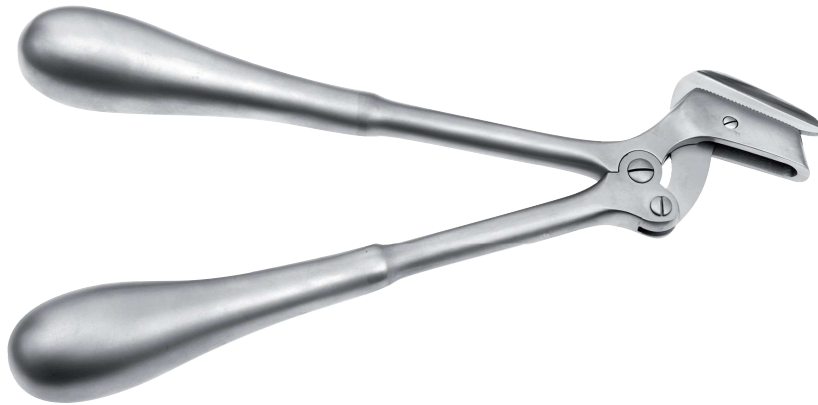
**Gipsscheren**  
**Plaster Shears**

Tijeras para yeso  
Ciseaux pour plâtre  
Forbici per gesso



**Art.Nr.**      **Beschreibung | Description**      **Size**      **Spez.**

**STILLE**



190-208-23

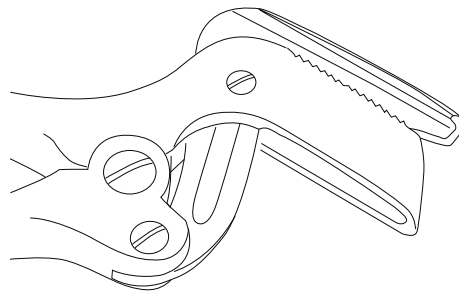
23,0 cm; 9"

190-208-26

26,0 cm; 10 5/8"

190-208-37

37,0 cm; 15"





Art.Nr.	Beschreibung   Description	Size	Spez.
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**BLUEPOWER**

SET



190-420-00

**Gipssäge mit Sägeblätter für Synthetic Verbände 230 V; 50 HZ**  
**Plaster Saw with blades for synthetic casts 230 V; 50 HZ**

Sierra oscilante para vendaje dura 230 V; 50 HZ  
Scie oscillante pour plâtre synthétique 230 V; 50 HZ  
Sega oscillata per bendaggi duri 230 V; 50 HZ

**komplett mit 2 Sägeblättern (190-408-50, 190-408-65) und 2 Schraubenschlüssel (190-420-99)**  
**complete with 2 saw blades (190-408-50, 190-408-65) and 2 wrenches (190-420-99)**  
completo con 2 hojas de sierra (190-408-50, 190-408-65) y 2 llaves de tuercas (190-420-99)  
complet avec 2 lames de scie (190-408-50, 190-408-65) et clé à écrou (190-420-99)  
completa con 2 lame (190-408-50, 190-408-65) e 2 chiavi (190-420-99)

190-420-01

**Gipssäge mit Sägeblätter für Naturgipsverbände 230 V; 50 HZ**  
**Plaster Saw with blades for plaster of paris 230 V; 50 HZ**

Sierra oscilante para vendaje enyesado 230 V; 50 HZ  
Scie oscillante pour plâtre régulier 230 V; 50 HZ  
Sega oscillata per ingessatura 230 V; 50 HZ

**komplett mit 2 Sägeblättern (190-407-50, 190-407-65) und 2 Schraubenschlüssel (190-420-99)**  
**complete with 2 saw blades (190-407-50, 190-407-65) and 2 wrenches (190-420-99)**  
completo con 2 hojas de sierra (190-407-50, 190-407-65) y 2 llaves de tuercas (190-420-99)  
complet avec 2 lames de scie (190-407-50, 190-407-65) et clé à écrou (190-420-99)  
completa con 2 lame (190-407-50, 190-407-65) e 2 chiavi (190-420-99)

190-430-00

**BLUEPOWER**

SET

**Gipssäge (190-420-00) mit Absaugung (190-430-99) 230 V; 50 HZ**  
**Plaster Saw (190-420-00) with vacuum (190-430-99) 230 V; 50 HZ**  
Sierra oscilante (190-420-00) con aspiración (190-430-99) 230 V; 50 HZ  
Scie oscillante (190-420-00) avec aspiration (190-430-99) 230 V; 50 HZ  
Sega oscillata (190-420-00) con aspirazione (190-430-99) 230 V; 50 HZ



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Art.Nr.	Beschreibung   Description	Size	Spez.
	<p><b>für Naturgipsverbände</b>  <b>for plaster of paris</b>                      para vendaje enyesado                      pour plâtre régulier                      per gesso naturale</p>		
190-407-50	Ø 50 mm		
190-407-65	Ø 65 mm		
	<p><b>für syntehtische Hartverbände</b>  <b>for synthetic casts</b>                      para vendaje duro                      pour plâtre synthétique                      per bendaggi duri (sintetici)</p>		
190-408-50	Ø 50 mm		
190-408-65	Ø 65 mm		
	<p><b>PTFE-Antihaftbeschichtung</b>  <b>PTFE non-stick coating</b>                      Recubrimiento antiadherente de PTFE                      Revêtement PTFE antiadhérent                      Rivestimento antiadesione in PTFE</p>		
190-409-50	Ø 50 mm		
190-409-65	Ø 65 mm		



Art.Nr.	Beschreibung   Description	Size	Spez.
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**Segment für Naturgipsverbände**  
**Segmented for plaster of paris**  
De segmentos para vendajes de yeso  
Segment pour plâtres naturels  
Segmento per bendaggi in gesso naturale

Ø 65 mm

190-413-65



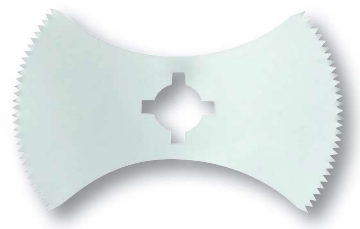
190-414-65



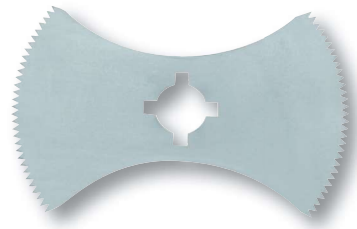
**Segment für Naturgipsverbände**  
**Segmented for plaster of paris**  
De segmentos para vendajes de yeso  
Segment pour plâtre naturels  
Segmento per bendaggi in gesso naturale

Ø 65 mm

190-415-65



190-416-65





Art.Nr.	Beschreibung   Description	Size	Spez.
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**Tiefensägeblätter für Naturgipsverbände**

**Deep saw blades for plaster of paris**

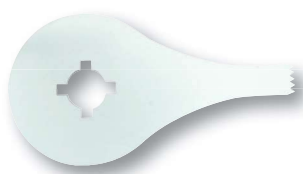
Hojas de sierra de profundidad para vendajes de yeso

Lame de scie circulaire plâtre épais pour plâtres naturels

Lama a taglio di profondità per bendaggi in gesso naturale

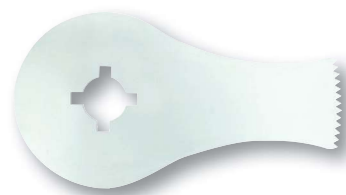
190-417-08

8 mm



190-417-20

20 mm



**Tiefensägeblätter für synthetische Hartverbände**

**Deep saw blades for synthetic casts**

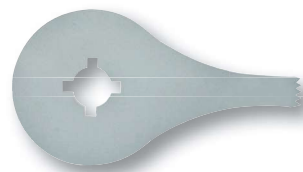
Hojas de sierra de profundidad para vendajes sintéticos rígidos

Lame de scie circul. plâtre épais pour bandages durs

Lama a taglio di profondità per bendaggi duri (sintetici)

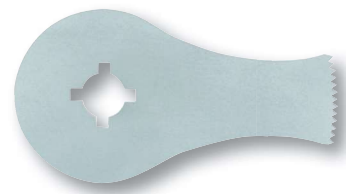
190-418-08

8 mm



190-418-20

20 mm



190-419-90

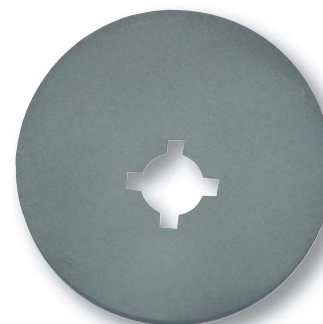
**Exzentrische Begrenzungsscheibe für Tiefenbegrenzung**

**Excentric disc to limit depth of cut**

Disco de tope excéntrico para tope de profundidad

Disque de limitation excentrique pour limitation de profondeur

Disco di limitazione eccentrico per limitazione della profondità



190





Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
	<b>Ersatzsägeblätter</b> <b>Saw blades</b> Hojas de recambio Lames de rechange Lame di ricambio		
			
190-211-12	12 mm		
190-211-15	15 mm		
190-211-18	18 mm		



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
190-212-39	<b>BIER</b> mit 3 Sägeblättern; 4 mm, 6 mm und 8 mm with 3 saw blades; 4 mm, 6 mm and 8 mm con 3 hojas; 4 mm, 6 mm y 8 mm avec 3 lames; 4 mm, 6 mm et 8 mm con 3 lame; 4 mm, 6 mm e 8 mm	40,5 cm; 16"	SET



**Ersatzsägeblätter**

**Saw blades**

Hojas de recambio

Lames de rechange

Lame di ricambio



190-213-04 4 mm

190-213-06 6 mm

190-213-08 8 mm

190



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
190-218-23	<b>LANGENBECK</b>	24,0 cm; 9 4/8"	



**CHARRIÈRE**



190-220-27	27,0 cm; 10 3/8"
190-220-30	30,0 cm; 11 3/4"
190-220-34	34,0 cm; 13 1/3"

190-225-31	<b>SATTERLEE</b>	29,0 cm; 11 3/8"
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190-225-20	<b>Ersatzsägeblatt</b> <b>Saw blade</b> Hoja de recambio Lames de rechange Lame di ricambio
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# Amputationsschild; Bohrerführungsinstrument

## Amputation Retractor; Drill Guide

Retractor para amputación; Pinza-guía

Retracteur pour amputation; Pince-guide

Reattore per amputazione; Pinza guida

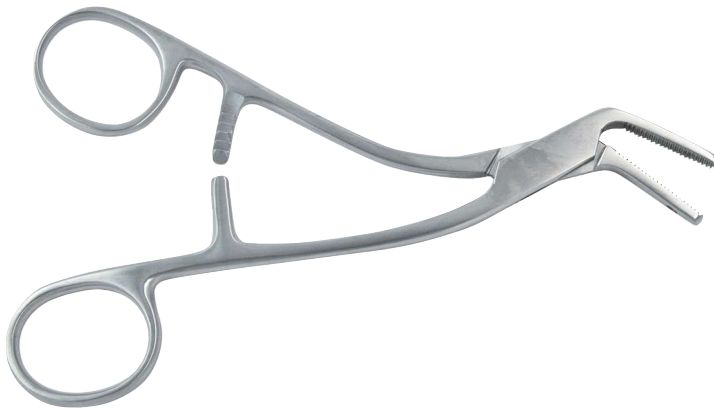
**TONTARRA**



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
190-240-00	<b>PERCY</b>  auseinandernehmbar   detachable   desmontable   démontable   smontabile		



190-242-15	<b>ADSON</b>	15,0 cm; 5 7/8"
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## Reibahlen

### Reamers

Escariadores

Pointes-carrées

Punteruoli

**TONTARRA**



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
190-244-13		14,0 cm; 5 1/8"	



190-245-14	eine Seite konkav   one side concave un lado cóncavo   un côté concave   un lato concavo	14,0 cm; 5 1/8"
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1/1

## PERTHES



190-246-18	18,0 cm; 7 1/8"
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190-246-21	21,5 cm; 8 4/8"
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190



Art.Nr.	Beschreibung   Description	Size	Spez.
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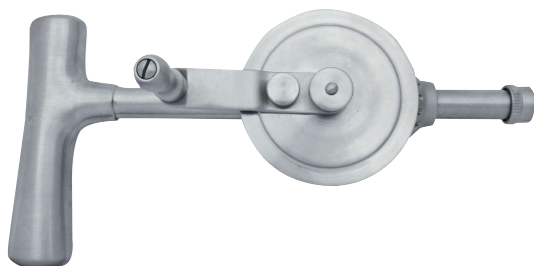
190-260-00

**STILLE**

SET

mit 9 Bohrern und Fräser | with 9 twist drills and burrs

con 9 brocas y fresas | avec 9 méche et fraise | con 9 punte e frese



bestehend aus: | consisting of:

compuesto de: | composé de: | composto da:

190-261-25; 190-261-30; 190-261-35; 190-261-40; 190-262-10; 190-263-05; 190-263-08;  
190-263-12; 190-263-16

**Spiralbohrer für Handbohrapparat**

**Twist drills for hand drill**

Brocas espiral para perforadores de mano

Mèche hélicoïdale pour perforateurs à main

Punta a spirale per perforatori a mano

190-261-10

Ø 1,0 mm



190-261-30

Ø 3,0 mm



190-261-15

Ø 1,5 mm



190-261-35

Ø 3,5 mm



190-261-20

Ø 2,0 mm



190-261-40

Ø 4,0 mm



190-261-25

Ø 2,5 mm



**Fräser für Handbohrapparat**

**Burrs for hand drill**

Taladros para perforadores de mano

Fraise pour perforateurs à main

Frese per perforatori a mano

190-262-10

Ø 10,0 mm



190-263-05

Ø 5,0 mm



190-263-12

Ø 12,0 mm



190-263-08

Ø 8,0 mm



190-263-16

Ø 16,0 mm





Art.Nr.	Beschreibung   Description	Size	Spez.
190-270-00	<b>HUDSON</b> mit Fräsern Fig. 1-4 und Verlängerungsstück with burrs Fig. 1-4 and extension piece con fresas Fig. 1-4 y pieza de prolongación avec fraises Fig. 1-4 et pièce de rallonge con frese Fig. 1-4 e giunto di prolungamento		SET



bestehend aus: | consisting of:  
compuesto de: | composé de: | composto da:  
190-271-00; 190-271-10; 190-271-14; 190-271-16; 190-271-22; 190-270-01

190-271-00	<b>Verlängerungsstück</b> <b>Extention piece</b> Pieza de prolongación Pièce de rallonge Giunto di prolungamento
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**Kegelfräser**  
**Conical Burrs**  
Fresas cónica  
Fraise conique  
Fresa conica

190-271-10	Fig. 1	Ø 10,0 mm	
190-271-14	Fig. 2	Ø 14,0 mm	
190-271-16	Fig. 3	Ø 16,0 mm	
190-271-22	Fig. 4	Ø 22,0 mm	



Art.Nr.	Beschreibung   Description	Size	Spez.
190-272-13	<b>CUSHING</b> Flachbohrer Flat trephine Taladro plano Fraise plate Trapano piatto	Ø 13,0 mm	
190-273-24	<b>ADSON</b> Spiralbohrer Twist drill Broca espiral Mèche hélicoïdale Punta a spirale	Ø 2,0 mm	
190-274-13	<b>MC KENZIE</b> Fräser Burr Taladro Fraise Frese	Ø 13,0 mm	
190-274-16	<b>ERRICO</b> Fräser Burr Taladro Fraise Frese	Ø 16,0 mm	
190-280-04	<b>MOORE</b> mit 3 Bohrer (190-280-10)   with 3 drills (190-280-10) con 3 brocas (190-280-10)   avec 3 fraises (190-280-10)   con 3 punte (190-280-10)	27,5 cm; 10 7/8"	<b>SET</b>



190-280-10

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**Spiralbohrer; Handbohrapparate**  
**Twist Drill; Hand Drills**

Brocas espirales; Perforadores de mano  
Mèche hélicoïdale; Perforateurs à main  
Punta a spirale; Perforatori a mano



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
190-296-00	<b>BUNNELL</b> längsdurchbohrt; mit Dreibackenspannfutter und Schlüssel longitudinally bored with three-jaw chuck and key taladrado longitudinalmente con mandril de tres mordazas y llave à perforation axiale avec mandrin à trois mâchoires et clé forati longitudinalmente con mandrino a tre ganasce e chiave		



Spannweite bis Ø 4,0 mm  
Opening up to Ø 4,0 mm  
Abertura hasta Ø 4,0 mm  
Overture jusqu'à Ø 4,0 mm  
Apertura fino a Ø 4,0 mm

## Bohrhandgriff; Dreibackenspannfutter

### Drill Handles; Three-Jaw Chuck

Perforadores de mano; Mandril de tres mordazas

Perforateurs à main; Mandrin à trois mâchoires

Perforatori a mano; Mandrino a tre ganasce



Art.Nr.	Beschreibung   Description	Size	Spez.
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190-303-10

#### Bohrhandgriff Handle

Mango

Manches

Perforatore a mano

mit Dreibacken-Spannfutter und Schlüssel | with three-jaw-chuck and key

con mandril de tres mordazas y llave | avec mandrin à trois mâchoires et clé

con mandrino a tre ganasce e chiave



190-312-00

#### Dreibacken-Spannfutter mit Spannschlüssel Three-jaw-chuck with key

Mandril de tres mordazas y llave

Mandrin à trois mâchoires et clé

Mandrino a tre ganasce e chiave



190-312-01

#### Spannschlüssel Key

llave

Clé

Chiave per il mandrino








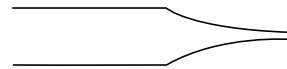
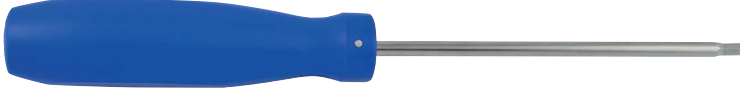
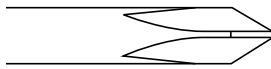
**Schraubendreher mit Kunststoffgriff**  
**Screwdriver with Plastic Handle**

Destornilladores con mango de plástico

Tournevis avec manche en plastique

Giraviti con manico di plastica



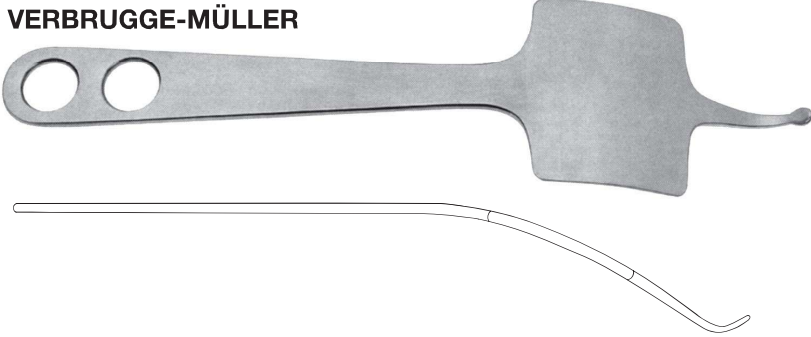
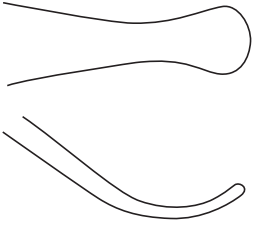

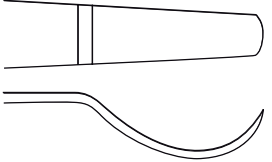

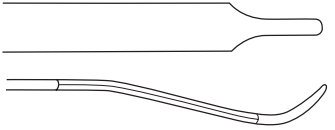

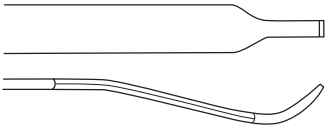
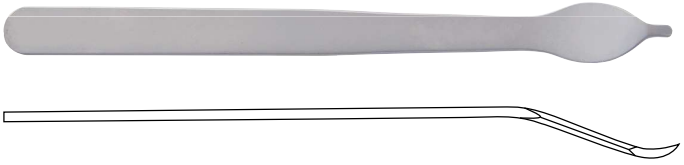
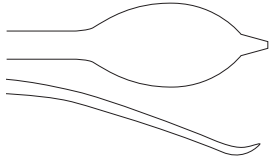

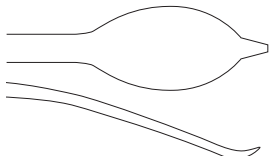
Art.Nr.	Beschreibung   Description	Size	Spez.
190-330-25	<b>Hexagonal   Hexagonal</b> Hexagonal   Hexagonale   Esagonale	25,0 cm; 10"	
			2,5 mm
190-331-25	<b>Hexagonal   Hexagonal</b> Hexagonal   Hexagonale   Esagonale	25,0 cm; 10"	
			3,5 mm
190-332-25	<b>Schlitz   Flat tip</b> Ranurada   Lame pour vis à tête fendue   Fessura	25,0 cm; 10"	
			6 mm
190-333-25	<b>Kreuzschlitz   phillips attachment</b> Punta philips   Lame philips   Punta philips	25,0 cm; 10"	
			6 mm



**Knochenhebel**  
**Bone Levers**

Elevadores para hueso  
Leviers à os  
Elevatori per ossa



Art.Nr.	Beschreibung   Description	Size	Spez.
190-564-64	<b>VERBRUGGE-MÜLLER</b> 	25,0 cm; 10" 65 mm	
1/1			
190-570-07		15,0 cm; 5 7/8" 7 mm	
1/1			
190-571-06	<b>MINI-HOHMANN</b> 	16,0 cm; 6 2/8" 6 mm	
1/1			
190-571-08	<b>MINI-HOHMANN</b> 	16,0 cm; 6 2/8" 8 mm	
1/1			
190-571-15		16,0 cm; 6 2/8" 15 mm	
1/1			
190-571-16		12,0 cm; 4 6/8" 15 mm	
1/1			

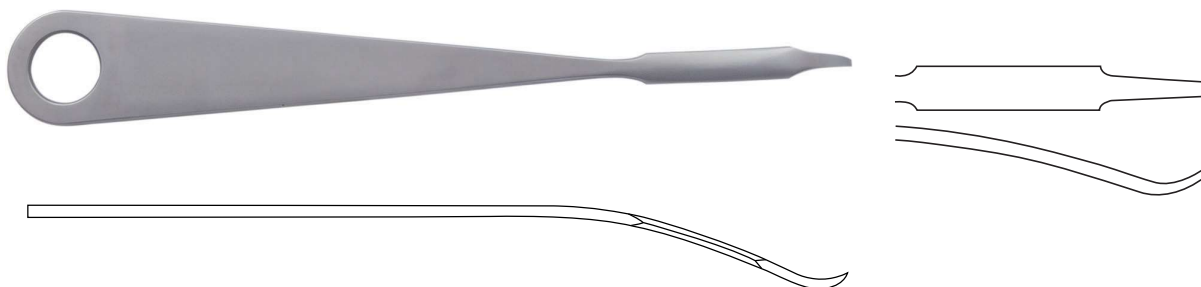
**Knochenhebel**  
**Bone Levers**

Elevadores para hueso  
Leviers à os  
Elevatori per ossa



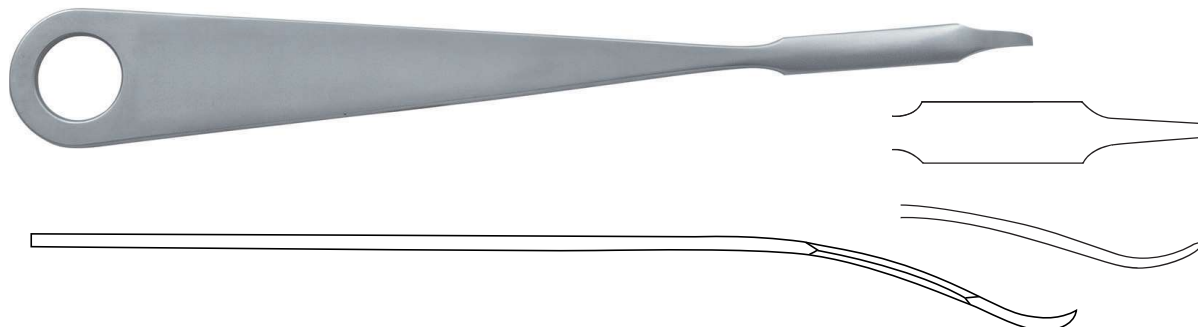
**Art.Nr.**      **Beschreibung | Description**      **Size**      **Spez.**

190-572-08      HOHMANN      21,5 cm; 8 4/8"  
8 mm



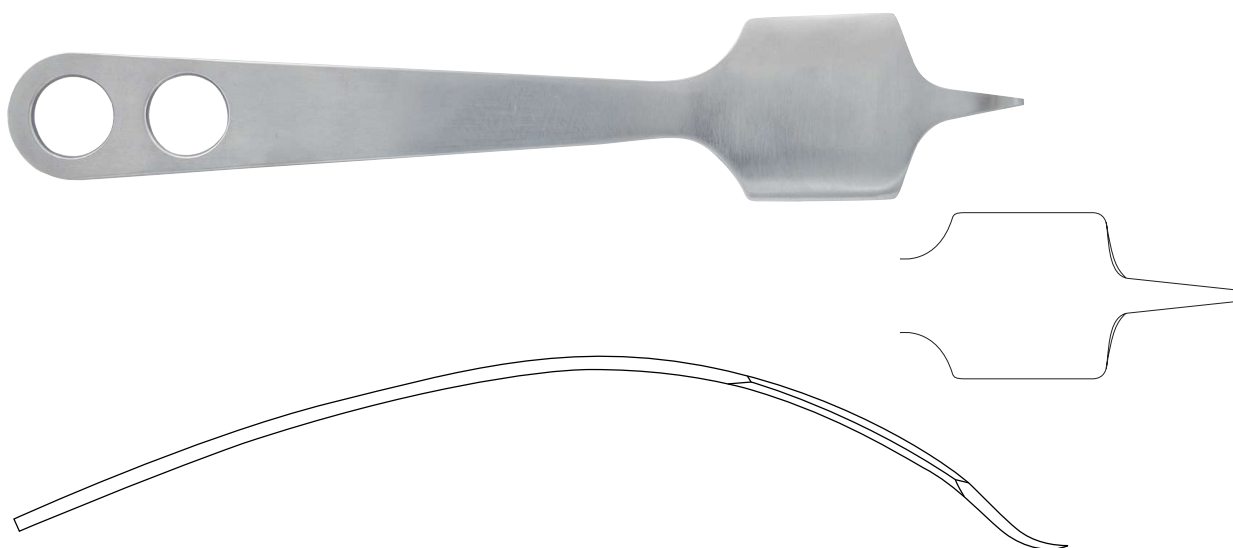
1/1

190-572-18      HOHMANN      23,5 cm; 9 2/8"  
18 mm



1/1

190-572-43      HOHMANN      23,5 cm; 9 2/8"  
43 mm



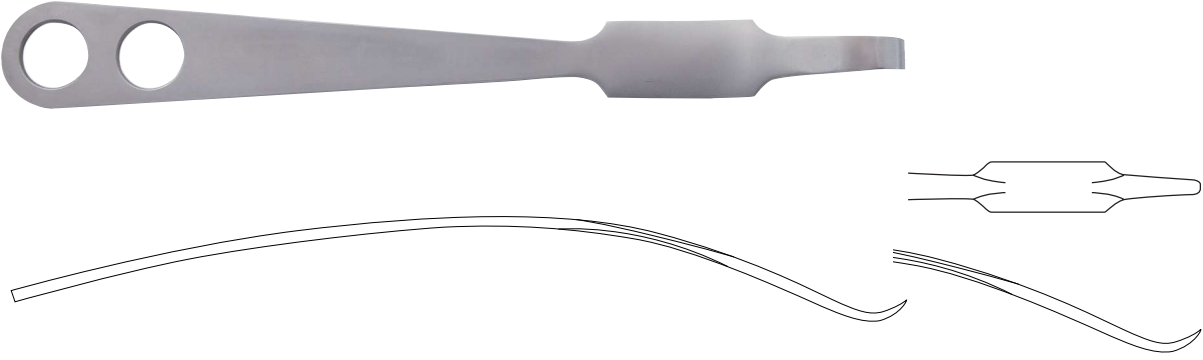
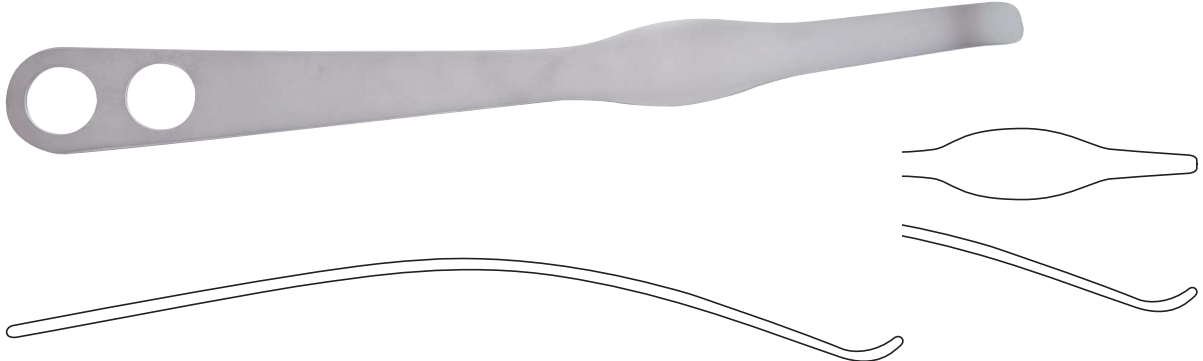

1/1

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**Knochenhebel**  
**Bone Levers**

Elevadores para hueso  
Leviers à os  
Elevatori per ossa



Art.Nr.	Beschreibung   Description	Size	Spez.
190-573-22	HOHMANN	25,5 cm; 10" 22 mm	
			
1/1			
190-573-24	HOHMANN	27,5 cm; 10 7/8" 24 mm	
			
1/1			
190-573-35	HOHMANN	29,0 cm; 11 3/8" 35 mm	
			
1/1			

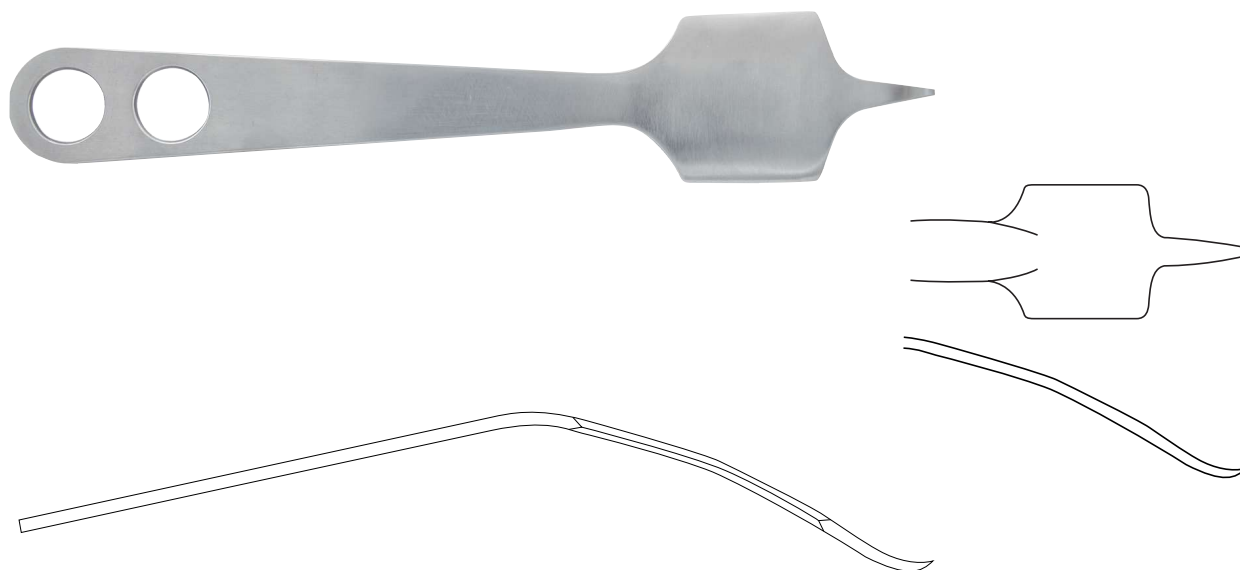
**Knochenheber**  
**Bone Levers**

Elevadores para hueso  
Leviers à os  
Elevatori per ossa



Art.Nr.	Beschreibung   Description	Size	Spez.
190-573-43	<b>HOHMANN</b>	23,5 cm; 9 2/8" 43 mm	

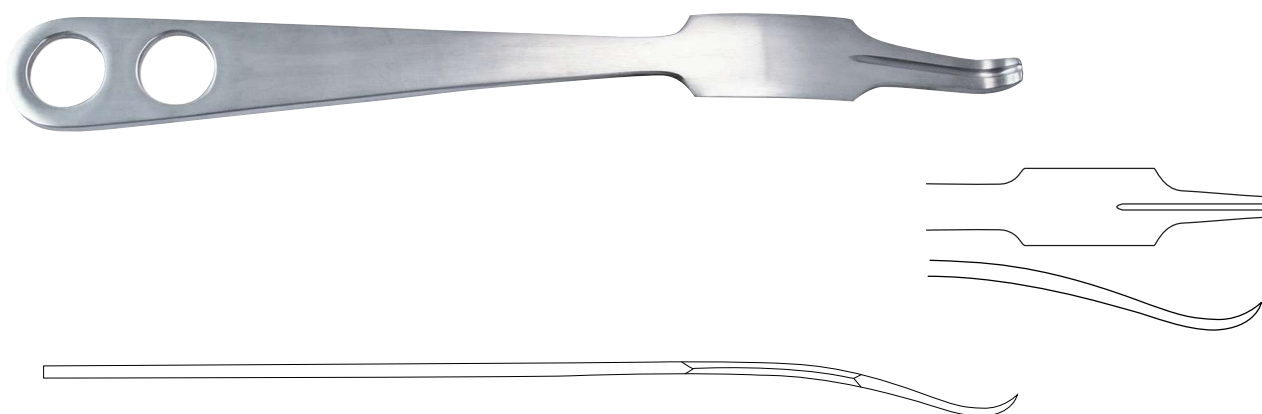
**schmale Spitze** | narrow tip  
punta estrecha | pointe étroite | punta stretta



1/1

190-574-22	<b>LANGE-HOHMANN</b>	25,0 cm; 10" 22 mm	
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**breite Spitze mit Längsrille** | wide tip with groove  
punta ancha con ranura | pointe large avec rainure | punta larga con scanalatura



1/1

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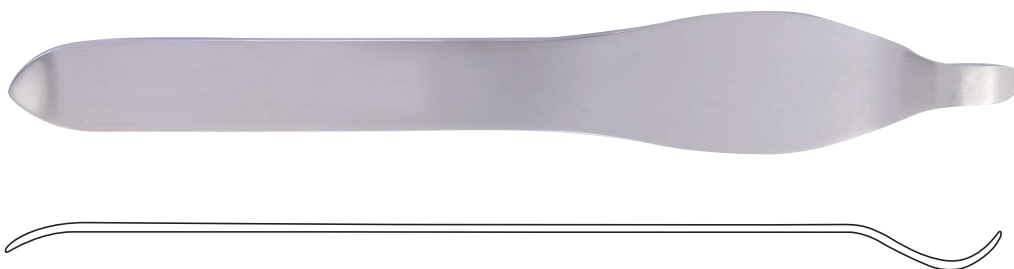


**Kniehaken**  
**Knee Retractors**

Separadores para rodilla  
Ecarteurs pour le genou  
Divaricatori per il ginocchio

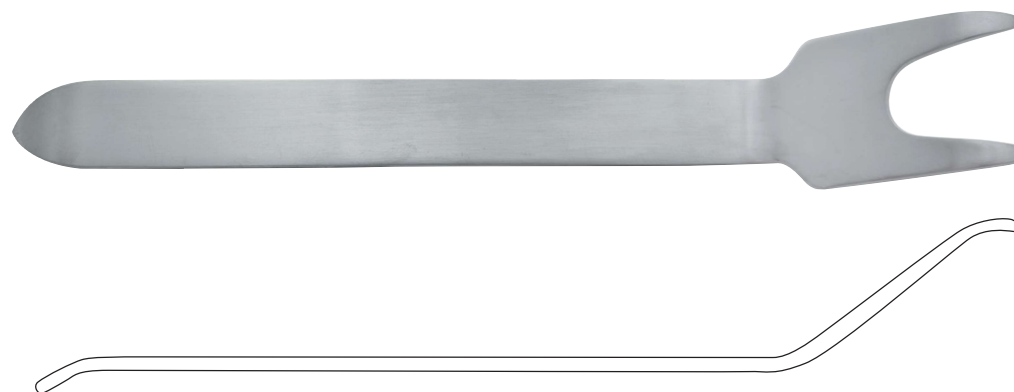


Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
190-575-26	<b>BLOUNT</b> stumpf   blunt   romo   mousse   smusso	26,5 cm; 10 3/8" 38 mm	



1/1

190-576-26	<b>BLOUNT</b>	26,5 cm; 10 3/8" 47 mm	
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1/1

**Knochenhebel**  
**Bone Levers**

Elevadores para hueso  
Leviers à os  
Elevatori per ossa



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
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**TAYLOR**

16,0 cm; 6 2/8"

spitz | sharp | agudo | pointu | acuto

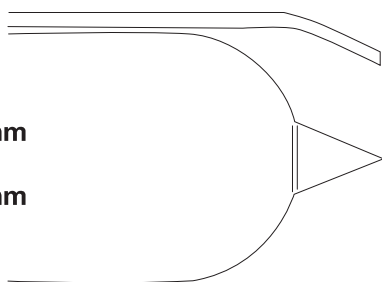


190-577-01

75 x 30 mm

190-577-02

100 x 30 mm

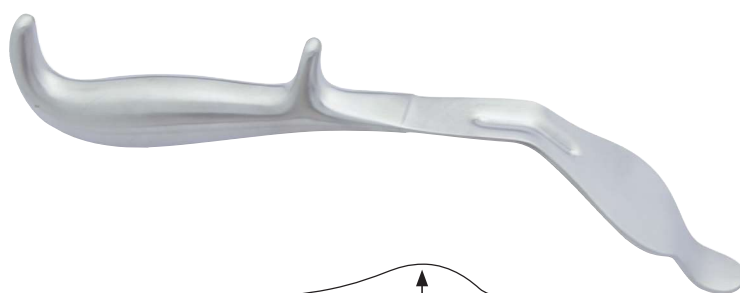


1/1

**BENNETT**

23,5 cm; 9 2/8"

stumpf | blunt | omo | mousse | smusso

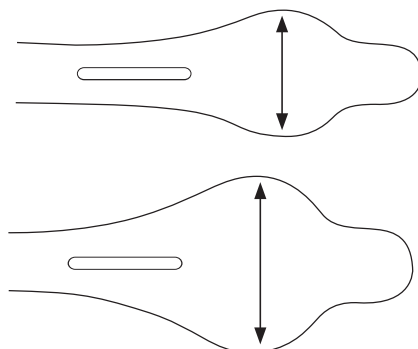


190-580-45

45 mm

190-580-60

60 mm



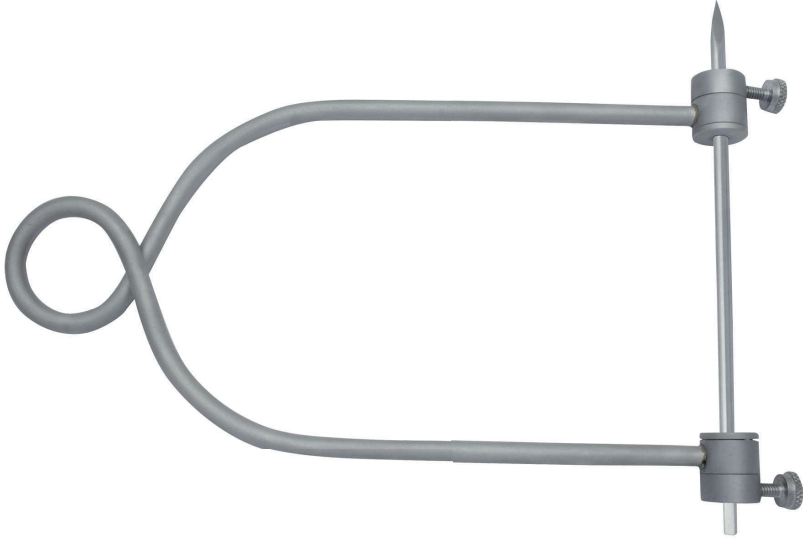
1/1

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**Extensionsbügel**  
**Extension Bows**

Estribos para extensión  
Etriers à extension  
Archi per estensione



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>BOEHLER</b>		
			
190-600-01	für Arm   for arm   para brazo   pour bras   per il braccio	160 x 90 mm; 6 2/8" x 4 4/8"	
190-600-02	für Oberschenkel und Knie   for femur and knee para fémur y rodilla   pour fémur et genou   per il femore ed il ginocchio	210 x 110 mm; 8 2/8" x 4 4/8"	
190-600-03	für Oberschenkel und Knie   for femur and knee para fémur y rodilla   pour fémur et genou   per il femore ed il ginocchio	210 x 150 mm; 8" x 6"	



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
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Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
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## Extensionsnägel

### Extension Pins

Clavos de extensión

Clous à os

Chiodi per ossa

**TONTARRA**



Art.Nr.	Beschreibung   Description	Size	Spez.
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#### Drahtgeflecht für Finger

#### Wire mesh for fingers

Malla de alambre para dedos

Gaze de fil de métal

Maglia metallica per le dita



190-628-01 klein | small | pequeño | petit | piccolo

190-628-02 mittel | medium | mediano | moyen | mezzo

190-628-03 groß | big | grande | grande | grande

#### STEINMANN

Ø 4,0 mm



#### Trokarspitze | Trocar point

Punta de trócar | Pointe de trocart | Punta a trequarti



212-348-14 14,0 cm; 5 4/8"

212-348-16 16,0 cm; 6 2/8"

212-348-18 18,0 cm; 7"

212-348-20 20,0 cm; 8"



Trokar | trocar | trócar | trocart | trequarti



rund | round | redondo | ronde | rotonde



flach | flat | plano | plate | piatti

#### Verpackung - Etikett | Packing - Label

Tontarra Medizintechnik GmbH ist nicht der Hersteller der aufgeführten Knochennägel. Sie erhalten das Labeling des Originalherstellers.

Tontarra Medizintechnik GmbH is not the manufacturer of the illustrated Extension pins. You will receive the product with the labeling of the original manufacturer.



Art.Nr.      Beschreibung | *Description*      Size      Spez.

**KIRSCHNER**



Trokar-rund | trocar-round | trócar-redondo | trocart-ronde | trequarti-rotonde

	60 mm; 2 4/8"	120 mm; 5"	140 mm; 5 4/8"	160 mm; 6 2/8"	310 mm; 12 2/8"
Ø 1,0 mm	212-501-10	212-504-10	212-505-10	212-506-10	212-508-10
Ø 1,2 mm	212-501-12	212-504-12	212-505-12	212-506-12	212-508-12
Ø 1,4 mm	212-501-14	212-504-14	212-505-14	212-506-14	212-508-14
Ø 1,5 mm	212-501-15	212-504-15	212-505-15	212-506-15	212-508-15
Ø 1,6 mm	212-501-16	212-504-16	212-505-16	212-506-16	212-508-16
Ø 1,8 mm	212-501-18	212-504-18	212-505-18	212-506-18	212-508-18
Ø 2,0 mm	212-501-20	212-504-20	212-505-20	212-506-20	212-508-20
Ø 2,2 mm	212-501-22	212-504-22	212-505-22	212-506-22	212-508-22
Ø 2,5 mm				212-506-25	212-508-25

Pack á 10 Stück | Box with 10 pieces | confección de 10 piezas | Box avec 10 pcs. | Box à 10 pezzi

**KIRSCHNER**



Trokar-flach | trocar-flat | trócar-plano | trocart-plate | trequarti-piatti

	60 mm; 2 4/8"	120 mm; 5"	140 mm; 5 4/8"	160 mm; 6 2/8"	310 mm; 12 2/8"
Ø 0,6 mm	212-511-06				
Ø 0,8 mm	212-511-08				
Ø 1,0 mm	212-511-10	212-514-10	212-515-10	212-516-10	212-518-10
Ø 1,2 mm	212-511-12	212-514-12	212-515-12	212-516-12	212-518-12
Ø 1,4 mm	212-511-14	212-514-14	212-515-14	212-516-14	212-518-14
Ø 1,5 mm	212-511-15	212-514-15	212-515-15	212-516-15	212-518-15
Ø 1,6 mm	212-511-16	212-514-16	212-515-16	212-516-16	212-518-16
Ø 1,8 mm	212-511-18	212-514-18	212-515-18	212-516-18	212-518-18
Ø 2,0 mm	212-511-20	212-514-20	212-515-20	212-516-20	212-518-20
Ø 2,2 mm	212-511-22	212-514-22	212-515-22	212-516-22	212-518-22
Ø 2,5 mm				212-516-25	212-518-25

# Knochennägel; Bohrdrahtspender Extension Pins; K-Wire Dispensers

Clavos de extensión; Dispensades para brocas filiformes

Clous à os; Distribueur de broches filiformes

Chiodi per ossa; Distributore per fili



Art.Nr.      Beschreibung | Description      Size      Spez.

## KIRSCHNER



Trokar-Trokar | trocar-trocar | trócar-trócar | trocart-trocart | trequarti-trequarti

	60 mm; 2 4/8"	120 mm; 5"	140 mm; 5 4/8"	160 mm; 6 2/8"	310 mm; 12 2/8"
Ø 0,6 mm	212-521-06	212-524-06			
Ø 0,8 mm	212-521-08	212-524-08	212-525-08		
Ø 1,0 mm	212-521-10	212-524-10	212-525-10	212-526-10	212-528-10
Ø 1,2 mm	212-521-12	212-524-12	212-525-12	212-526-12	212-528-12
Ø 1,4 mm	212-521-14	212-524-14	212-525-14	212-526-14	212-528-14
Ø 1,5 mm	212-521-15	212-524-15	212-525-15	212-526-15	212-528-15
Ø 1,6 mm	212-521-16	212-524-16	212-525-16	212-526-16	212-528-16
Ø 1,8 mm	212-521-18	212-524-18	212-525-18	212-526-18	212-528-18
Ø 2,0 mm	212-521-20	212-524-20	212-525-20	212-526-20	212-528-20
Ø 2,2 mm	212-521-22	212-524-22		212-526-22	212-528-22
Ø 2,5 mm	212-521-25	212-524-25	212-525-25	212-526-25	212-528-25

Pack á 10 Stück | Box with 10 pieces | Bonfección de 10 piezas | Box avec 10 pcs. | Box à 10 pezzi

## VICKERS



	Ø Drähte Ø Wires Ø Brocas Ø Broches Ø Fili	Drahtlänge Wire lenght Longitud brocas Longueur de broches Lunghezza fili	
212-596-10	1,0 / 1,2 / 1,4 / 1,6 mm	10,0 cm	12,0 cm; 4 6/8"
212-596-15	1,0 / 1,2 / 1,4 / 1,6 mm	16,0 cm	18,5 cm; 7 2/8"
212-596-31	1,0 / 1,2 / 1,4 / 1,6 mm	31,0 cm	35,0 cm; 14"
212-598-15	1,8 / 2,0 / 2,2 / 2,5 mm	16,0 cm	18,5 cm; 7 2/8"
212-598-31	1,8 / 2,0 / 2,2 / 2,5 mm	31,0 cm	35,0 cm; 14"

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**Flachzangen**  
**Flat Nose Pliers**

Alicates de pico plano  
Pinces plates  
Tenaglie piate



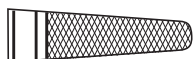
Art.Nr.	Beschreibung   Description	Size	Spez.
	parallel fassend   parallel grip acción paralela   action parallèle   afferramento parallelo	18,0 cm; 7 1/8"	TC



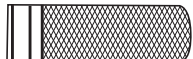
190-740-18



190-741-18



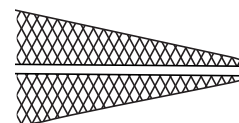
190-742-18



1/1

190-752-16	<b>HACKSTOCK</b>	16,0 cm; 6 2/8"
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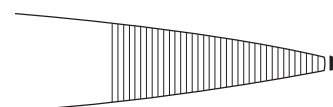
mit Längsrille | with groove  
con ranura longitudinal | avec rainure longitudinale | con scanalatura longitudinale



1/1

190-753-19	<b>spitzes Maul   sharp jaw</b>	19,0 cm; 7 4/8"
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boca aguda | mors pointu | morso acuto



1/1

**Flachzangen**  
**Flat Nose Pliers**

Alicates de pico plano  
Pincas plates  
Tenaglie piatte



**Art.Nr.**      **Beschreibung | Description**      **Size**      **Spez.**

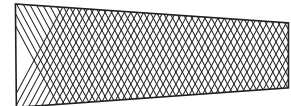
**flaches Maul**  
**flat jaw**  
boca plana  
mors plat  
morso piatto

**17,0 cm; 6 6/8"**



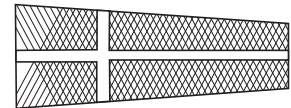
**190-755-01**      **gerieft | serrated | estriada | strié | striata**

1/1



**190-755-02**      **mit Kreuzrille**  
**with crosswise groove**  
con ranura en forma de cruz  
avec rainures croisés  
con scanalatura a croce

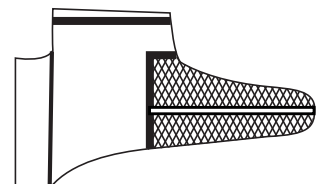
1/1



**190-757-15**      **Kombinationszange**  
**Combi-Flat Nose Plier**

Combi-Alicate  
Combi-Pince  
Combi-Pinza

**15,0 cm; 5 7/8"**



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**Flachzangen**  
**Flat Nose Pliers**

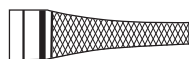
Alicates de pico plano  
Pinces plates  
Tenaglie piate



Art.Nr.	Beschreibung   Description	Size	Spez.
	parallel fassend   parallel grip acción paralela   action parallèle   afferramento parallelo	18,0 cm; 7 1/8"	



190-760-18



190-761-18



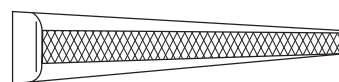
190-762-18



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190-763-19

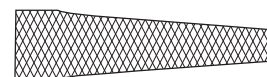
19,0 cm; 7 4/8"



1/1

190-764-14

14,0 cm; 5 3/8"



1/1

**Tonnenzangen; Parallelfasszangen**

**Vise Grips; Parallel Pliers**

Alicates de pico plano

Pinces plates

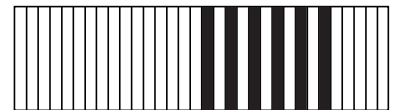
Tenaglie piatte



Art.Nr.	Beschreibung   Description	Size	Spez.
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190-765-18

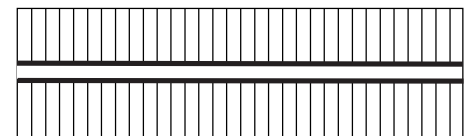
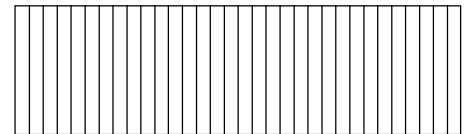
18,0 cm; 7 1/8"



1/1

190-766-18

18,5 cm; 7 2/8"



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## Drahtkneifzangen Wire Cutting Pliers

Alicates para cortar alambre

Pinces à couper le fil

Tenaglie tagliafili

**TONTARRA**



Art.Nr.	Beschreibung   Description	Size	Spez.
190-768-18	<p><b>für weiche Drähte bis Ø 2,4 mm</b> <b>for soft wires up to Ø 2,4 mm</b> para alambres blandos hasta Ø 2,4 mm pour fils mous jusqu'a Ø 2,4 mm per fili morbidi fino a Ø 2,4 mm</p> <p><b>für harte Drähte bis Ø 1,8 mm</b> <b>for hard wires up to Ø 1,8 mm</b> para alambres duros hasta Ø 1,8 mm pour fils durs jusqu'a Ø 1,8 mm per fili metallici duri fino Ø 1,8 mm</p>	18,5 cm; 7 2/8" 13,5 mm	
190-771-16	<p><b>für weiche Drähte bis Ø 2,2 mm</b> <b>for soft wires up to Ø 2,2 mm</b> para alambres blandos hasta Ø 2,2 mm pour fils mous jusqu'a Ø 2,2 mm per fili morbidi fino a Ø 2,2 mm</p> <p><b>für harte Drähte bis Ø 2,0 mm</b> <b>for hard wires up to Ø 2,0 mm</b> para alambres duros hasta Ø 2,0 mm pour fils durs jusqu'a Ø 2,0 mm per fili metallici duri fino Ø 2,0 mm</p>	16,0 cm; 6 2/8" 18,0 mm	
190-770-15	<p><b>für weiche Drähte bis Ø 2,0 mm</b> <b>for soft wires up to Ø 2,0 mm</b> para alambres blandos hasta Ø 2,0 mm pour fils mous jusqu'a Ø 2,0 mm per fili morbidi fino a Ø 2,0 mm</p> <p><b>für harte Drähte bis Ø 1,2 mm</b> <b>for hard wires up to Ø 1,2 mm</b> para alambres duros hasta Ø 1,2 mm pour fils durs jusqu'a Ø 1,2 mm per fili metallici duri fino Ø 1,2 mm</p>	15,0 cm; 5 7/8" 14,5 mm	TC

**Seitenschneider**  
**Wire Cutting Pliers**

Alicates para cortar alambre

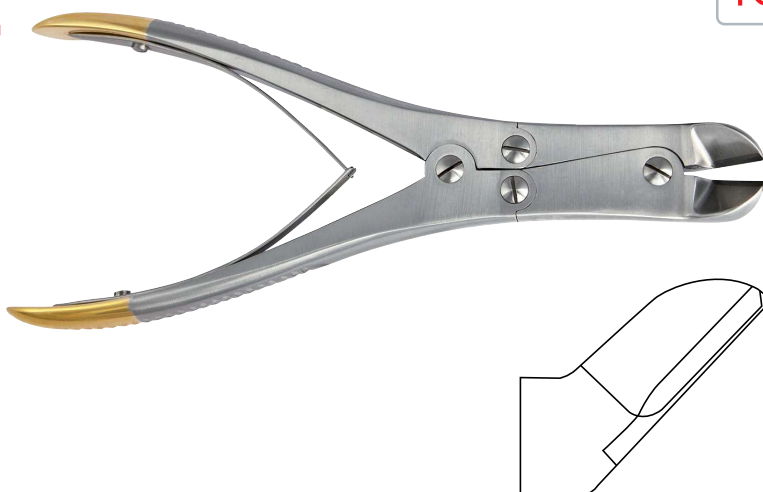
Pinces à couper le fil

Tenaglie tagliafili

**TONTARRA**



Art.Nr.	Beschreibung   Description	Size	Spez.
190-772-18	<p>für weiche Drähte bis Ø 2,0 mm for soft wires up to Ø 2,0 mm para alambres blandos hasta Ø 2,0 mm pour fils mous jusqu'a Ø 2,0 mm per fili morbidi fino a Ø 2,0 mm</p> <p>für harte Drähte bis Ø 1,5 mm for hard wires up to Ø 1,5 mm para alambres duros hasta Ø 1,5 mm pour fils durs jusqu'a Ø 1,5 mm per fili metallici duri fino Ø 1,5 mm</p>	17,5 cm; 6 7/8" 10,0 mm	TC
190-773-17	<p>für weiche Drähte bis Ø 2,0 mm for soft wires up to Ø 2,0 mm para alambres blandos hasta Ø 2,0 mm pour fils mous jusqu'a Ø 2,0 mm per fili morbidi fino a Ø 2,0 mm</p> <p>für harte Drähte bis Ø 1,7 mm for hard wires up to Ø 1,7 mm para alambres duros hasta Ø 1,7 mm pour fils durs jusqu'a Ø 1,7 mm per fili metallici duri fino Ø 1,7 mm</p>	17,0 cm; 6 6/8"	TC
190-773-22	<p>für weiche Drähte bis Ø 2,8 mm for soft wires up to Ø 2,8 mm para alambres blandos hasta Ø 2,8 mm pour fils mous jusqu'a Ø 2,8 mm per fili morbidi fino a Ø 2,8 mm</p> <p>für harte Drähte bis Ø 2,2 mm for hard wires up to Ø 2,2 mm para alambres duros hasta Ø 2,2 mm pour fils durs jusqu'a Ø 2,2 mm per fili metallici duri fino Ø 2,2 mm</p>	23,0 cm; 9"	TC



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**Seitenschneider; Kopfschneider**  
**Wire Cutting Pliers; Wire Cutter Front Action**

Alicates para cortar alambre; Alicates frontal para cortar alambre

Pinces à couper le fil; Pinces coupantes frontales

Tenaglie tagliafilì; Tenaglie tagliafilì frontali



Art.Nr.	Beschreibung   Description	Size	Spez.
190-774-23	<p>für weiche Drähte bis Ø 3,0 mm for soft wires up to Ø 3,0 mm para alambres blandos hasta Ø 3,0 mm pour fils mous jusqu'a Ø 3,0 mm per fili morbidi fino a Ø 3,0 mm</p> <p>für harte Drähte bis Ø 2,2 mm for hard wires up to Ø 2,2 mm para alambres duros hasta Ø 2,2 mm pour fils durs jusqu'a Ø 2,2 mm per fili metallici duri fino Ø 2,2 mm</p>	23,0 cm; 9"	
190-775-47	<p>für harte Drähte und Schrauben bis Ø 6,0 mm for hard wires and screws up to Ø 6,0 mm para alambres duros hasta Ø 6,0 mm pour fils durs jusqu'a Ø 6,0 mm per fili duri fino a Ø 6,0 mm</p>	47,0 cm; 17 3/4"	
190-776-26	<p>für weiche Drähte bis Ø 3,2 mm for soft wires up to Ø 3,2 mm para alambres blandos hasta Ø 3,2 mm pour fils mous jusqu'a Ø 3,2 mm per fili morbidi fino a Ø 3,2 mm</p> <p>für harte Drähte bis Ø 2,5 mm for hard wires up to Ø 2,5 mm para alambres duros hasta Ø 2,5 mm pour fils durs jusqu'a Ø 2,5 mm per fili metallici duri fino Ø 2,5 mm</p>	26,0 cm; 10 2/8"	
190-776-56	<p>für harte Drähte und Schrauben bis Ø 6,0 mm for hard wires and screws up to Ø 6,0 mm para alambres duros hasta Ø 6,0 mm pour fils durs jusqu'a Ø 6,0 mm per fili duri fino a Ø 6,0 mm</p>	56,0 cm; 22"	

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# Drahtspanner; Drahtumföhrungsnadeln

## Wire Tighteners; Wire Guides

Tensor cierra-hilo; Agujas pasa-hilo

Tendeur serre-fil; Aiguilles passe-fils

Strumento tendifili; Aghi passafili



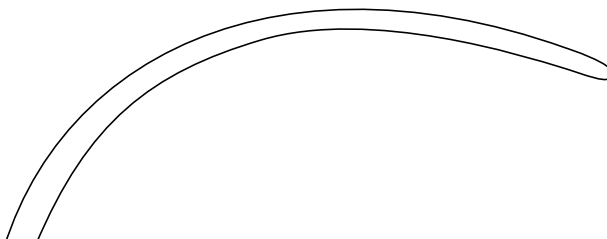
Art.Nr.	Beschreibung   Description	Size	Spez.
190-780-21	LOUTE	21,0 cm; 8 2/8"	



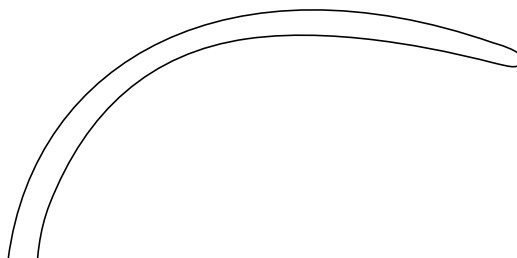
### DEMEL



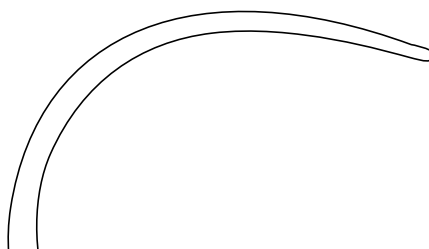
190-781-01	Fig. 1	groß big grande grande grande	31,0 cm; 12 2/8"
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190-781-02	Fig. 2	mittel medium mediano moyen medio	29,0 cm; 11 3/8"
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190-781-03	Fig. 3	klein small pequeño petit piccolo	28,0 cm; 11"
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## Stahldrähte

### Bone Wires

Alambres para hueso

Fil à os

Filo per ossa



Art.Nr.	Beschreibung   Description	Size	Spez.
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Rolle

Coil

Rollo

En rouleaux

Rotolo

mit 10,0 m | of 10,0 m | de 10,0 m | de 10,0 m | di 10,0 m



190-795-02	Ø 0,2 mm
190-795-03	Ø 0,3 mm
190-795-04	Ø 0,4 mm
190-795-05	Ø 0,5 mm
190-795-06	Ø 0,6 mm
190-795-07	Ø 0,7 mm
190-795-08	Ø 0,8 mm
190-795-09	Ø 0,9 mm
190-795-10	Ø 1,0 mm
190-795-12	Ø 1,2 mm
190-795-15	Ø 1,5 mm



## OPEN SURGERY



**Knochenchirurgie**

**Bone Surgery**

Chirurgia ósea

Chirurgie osseuse

Chirurgia osseas

# 191



**Art.Nr.**      **Beschreibung | Description**      **Size**      **Spez.**

**PARTSCH**

**19,0 cm; 7 4/8"**

**bleigefüllt | lead filled**

relleno de plomo | remplissage de plomb | ripieno di piombo



<b>Kopf</b>	<b>Gewicht</b>
<b>Head</b>	<b>Weight</b>
Cabeza	Peso
Tête	Poids
Testa	Peso

**191-145-18      22 mm      200 g**

**WILLIGER**

**24,0 cm; 9 4/8"**

**bleigefüllt | lead filled**

relleno de plomo | remplissage de plomb | ripieno di piombo

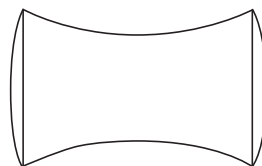


<b>Kopf</b>	<b>Gewicht</b>
<b>Head</b>	<b>Weight</b>
Cabeza	Peso
Tête	Poids
Testa	Peso

**191-210-24      26 mm      280 g**

**191-210-28      28 mm      320 g**

**191-210-30      30 mm      340 g**



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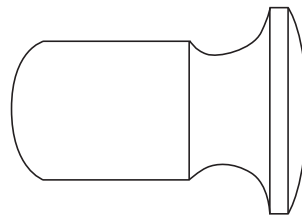


Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
	<b>DOYEN</b>	21,0 cm; 8 2/8"	



Kopf Head	Gewicht Weight
Cabeza	Peso
Tête	Poids
Testa	Peso

191-212-25	25 mm	120 g
191-212-30	30 mm	180 g
191-212-35	35 mm	260 g



<b>COTTLE</b>	19,0 cm; 7 4/8"
---------------	-----------------

plan/konvex | plane/convex  
 piano/convexo | plan/convexe | piano/convesso



Kopf Head	Gewicht Weight
Cabeza	Peso
Tête	Poids
Testa	Peso

191-216-19	30 mm	300 g
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Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
	<b>COLLIN</b>	20,0 cm; 7 7/8"	



Kopf Head	Gewicht Weight
Cabeza	Peso
Tête	Poids
Testa	Peso

191-220-20    30 mm    240 g

<b>HAJEK</b>	22,0 cm; 8 3/4"
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Kopf Head	Gewicht Weight
Cabeza	Peso
Tête	Poids
Testa	Peso

191-224-22    27 mm    140 g



Art.Nr.	Beschreibung   Description	Size	Spez.
		18,5 cm; 7 1/4"	



Kopf	Gewicht
Head	Weight
Cabeza	Peso
Tête	Poids
Testa	Peso

191-230-18 25 mm 135 g

komplett mit | complete with  
completo con | complet avec | completo con:

191-230-02 1 Paar Ersatzbacken  
1 Pair spare facings  
1 Par frentes de repuesto  
1 Paire joues de rechange  
1 Paio guancie di ricambio

WILLIGER

16,5 cm; 6 4/8"



Kopf	Gewicht
Head	Weight
Cabeza	Peso
Tête	Poids
Testa	Peso

191-234-01 20 mm 140 g

bleigefüllt | lead filled | relleno de plomo | remplissage de plomb | ripieno di piombo

191-234-02 20 mm 120 g

massiv | solid | macizo | solide | solido



Art.Nr. Beschreibung | Description Size Spez.

LUCAE 19,5 cm; 7 5/8"



Kopf	Gewicht
Head	Weight
Cabeza	Peso
Tête	Poids
Testa	Peso

191-236-19 19 mm 230 g

191-236-26 25 mm 260 g



WAGNER

24,5 cm; 9 3/4"



191-266-24 35 mm Kopf | Head | Cabeza | Tête | Testa

**komplett mit:**  
191-266-01 1 Paar Metallbacken  
191-266-02 1 Paar Kunststoffbacken  
191-266-10 1 Schlüssel

**complete with:**  
191-266-01 1 Pair of metal disks  
191-266-02 1 Pair of plastic disks  
191-266-10 1 Wrench

**completo con:**  
191-266-01 1 Par de discos de metal  
191-266-02 1 Par de discos de plástico  
191-266-10 1 Llave

**complet avec:**  
191-266-01 1 Paire de disques métalliques  
191-266-02 1 Paire de disques en plastique  
191-266-10 1 Clé

**completo con:**  
191-266-01 1 Paio di dischi metallo  
191-266-02 1 Paio di dischi plastica  
191-266-10 1 Chiave



## Hämmer mit Kunststoffgriffen

### Mallets with plastic Handles

Martillos con mango de plástico

Marteaux avec manche en plastique

Martelli con manico di plastica

**TONTARRA**



Art.Nr.	Beschreibung   Description	Size	Spez.
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26,0 cm; 10 2/8"



Kopf	Gewicht
Head	Weight
Cabeza	Peso
Tête	Poids
Testa	Peso

191-280-26	30 mm	450 g
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plan/konvex | plane/convex  
plano/convexo | plan/convexe | piano/convesso

26,0 cm; 10 2/8"



Kopf	Gewicht
Head	Weight
Cabeza	Peso
Tête	Poids
Testa	Peso

191-282-26	32 mm	620 g
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## Hämmer mit Kunststoffgriffen

### Mallets with plastic Handles

Martillos con mango de plástico

Marteaux avec manche en plastique

Martelli con manico di plastica

**TONARRA**



Art.Nr.	Beschreibung   Description	Size	Spez.
---------	----------------------------	------	-------

26,0 cm; 10 2/8"



Kopf	Gewicht
Head	Weight
Cabeza	Peso
Tête	Poids
Testa	Peso

191-283-26    32 mm    620 g

24,0 cm; 9 4/8"



Kopf	Gewicht
Head	Weight
Cabeza	Peso
Tête	Poids
Testa	Peso

191-284-24    30 mm    460 g

191

## Hämmer mit Kunststoffgriffen

### Mallets with plastic Handles

Martillos con mango de plástico

Marteaux avec manche en plastique

Martelli con manico di plastica

**TONARRA**



Art.Nr.	Beschreibung   Description	Size	Spez.
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26,0 cm; 10 2/8"



Kopf Head	Gewicht Weight
Cabeza	Peso
Tête	Poids
Testa	Peso

191-285-26    30 mm    580 g

26,0 cm; 10 2/8"



Kopf Head	Gewicht Weight
Cabeza	Peso
Tête	Poids
Testa	Peso

191-286-26    50 mm    1300 g

191

## Hämmer mit Kunststoffgriffen

### Mallets with plastic Handles

Martillos con mango de plástico

Marteaux avec manche en plastique

Martelli con manico di plastica

**TONTARRA**



Art.Nr.	Beschreibung   Description	Size	Spez.
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#### Backen Facings

Tapas  
Mâchoires  
Placche

19,0 cm; 7 4/8"

auswechselbar | interchangeable  
intercambiables | interchangeable | intercambiabili



Kopf Head	Gewicht Weight
Cabeza	Peso
Tête	Poids
Testa	Peso

191-287-19	30 mm	300 g
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#### HERBERT

19,0 cm; 7 4/8"

für Ulnakopf-Prothese | for ulnar head prothesis  
para prótesis de la cabeza ulna | pour prothèse de la tête ulna  
per protesi per la testa ulnare



Kopf Head	Gewicht Weight
Cabeza	Peso
Tête	Poids
Testa	Peso

191-288-19	25 mm	220 g
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191

**Ersatzbacken**  
**Replacement Jaws**

Mordazas de Repuesto  
Mâchoires de Rechange  
Ganasce di Ricambio



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
	<b>Ersatzbacken</b> <b>Replacement jaws</b> Mordazas de repuesto Mâchoires de rechange Ganasce di ricambio		
191-291-25	plan plane plano plan piano	Ø 25 mm	
191-291-32	plan plane plano plan piano	Ø 32 mm	



## OPEN SURGERY



**Scharfe Löffel**

**Bone Curettes**

Cucharillas cortantes

Curettes tranchantes

Curette taglienti

# 192

**Scharfe Löffel**  
**Bone Curettes**

Cucharillas cortantes  
Curettes tranchantes  
Curette taglianti



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
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**WILLIGER**

14,0 cm; 5 4/8"



192-406-00	Fig. 00/0	
192-406-01	Fig. 0/1	
192-406-02	Fig. 1/2	

1/1

**WILLIGER**

16,5 cm; 6 4/8"



192-407-00	Fig. 00/0	
192-407-01	Fig. 0/1	
192-407-02	Fig. 1/2	

1/1

192-410-16 **JANSEN**

16,0 cm; 6 2/8"



1/1

192-411-15 **JANSEN**

15,0 cm; 5 7/8"



1/1

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**Scharfe Löffel**  
**Bone Curettes**

Cucharillas cortantes  
Curettes tranchantes  
Curette taglienti



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
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**VOLKMANN**



192-414-13	12,5 cm; 4 7/8"		
192-414-14	14,5 cm; 5 6/8"		
192-414-17	17,0 cm; 6 6/8"		

1/1

**VOLKMANN**



192-415-13	13,0 cm; 5 1/8"		
192-415-16	16,0 cm; 6 2/8"		
192-415-20	20,0 cm; 7 7/8"		

1/1

192-418-21		21,0 cm; 8 2/8"	
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1/1

**Scharfe Löffel**  
**Bone Curettes**

Cucharillas cortantes  
Curettes tranchantes  
Curette taglianti



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
<b>MODELL USA</b>		<b>16,0 cm; 6 2/8"</b>	



192-435-01	Fig. 1		192-435-04	Fig. 4	
192-435-02	Fig. 2		192-435-05	Fig. 5	
192-435-03	Fig. 3		192-435-06	Fig. 6	
1/1			1/1		

<b>MODELL USA</b>		<b>16,0 cm; 6 2/8"</b>	
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192-436-01	Fig. 1		192-436-04	Fig. 4	
192-436-02	Fig. 2		192-436-05	Fig. 5	
192-436-03	Fig. 3		192-436-06	Fig. 6	
1/1			1/1		

<b>MODELL USA</b>		<b>16,0 cm; 6 2/8"</b>	
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192-437-01	Fig. 1		192-437-04	Fig. 4	
192-437-02	Fig. 2		192-437-05	Fig. 5	
192-437-03	Fig. 3		192-437-06	Fig. 6	
1/1			1/1		

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**Scharfe Löffel**  
**Bone Curettes**

Cucharillas cortantes  
Curettes tranchantes  
Curette taglianti



Art.Nr.	Beschreibung   Description		Size	Spez.			
<b>STILLE</b>							
192-440-02	Ø 2 mm		17,0 cm; 6 6/8"	192-440-07	Ø 7 mm		19,5 cm; 7 5/8"
192-440-03	Ø 3 mm		17,0 cm; 6 6/8"	192-440-08	Ø 8 mm		20,0 cm; 7 7/8"
192-440-04	Ø 4 mm		17,0 cm; 6 6/8"	192-440-10	Ø 10 mm		21,0 cm; 8 2/8"
192-440-05	Ø 5 mm		19,5 cm; 7 5/8"	192-440-12	Ø 12 mm		21,5 cm; 8 4/8"
192-440-06	Ø 6 mm		19,5 cm; 7 5/8"	192-440-14	Ø 14 mm		22,0 cm; 8 5/8"
1/1				1/1			

<b>STILLE</b>							
192-442-02	Ø 2 mm		17,0 cm; 6 6/8"	192-442-07	Ø 7 mm		19,5 cm; 7 5/8"
192-442-03	Ø 3 mm		17,0 cm; 6 6/8"	192-442-08	Ø 8 mm		20,0 cm; 7 7/8"
192-442-04	Ø 4 mm		17,0 cm; 6 6/8"	192-442-10	Ø 10 mm		20,5 cm; 8 1/8"
192-442-05	Ø 5 mm		19,5 cm; 7 5/8"	192-442-12	Ø 12 mm		20,5 cm; 8 1/8"
192-442-06	Ø 6 mm		19,5 cm; 7 5/8"	192-442-14	Ø 14 mm		20,5 cm; 8 1/8"
1/1				1/1			

**Scharfe Löffel**  
**Bone Curettes**

Cucharillas cortantes  
Curettes tranchantes  
Curette taglianti



Art.Nr.	Beschreibung   Description	Size	Spez.
<b>SIMON</b>		<b>24,0 cm; 9 4/8"</b>	



192-444-00	Fig. 0	○			
192-444-01	Fig. 1	○	192-444-04	Fig. 4	○
192-444-02	Fig. 2	○	192-444-05	Fig. 5	○
192-444-03	Fig. 3	○	192-444-06	Fig. 6	○
1/1			1/1		

<b>LEMPERT</b>		<b>21,5 cm; 8 4/8"</b>
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192-448-00	Fig. 0 Ø 3,0 mm	○	192-448-03	Fig. 0000 Ø 2,2 mm	○
192-448-01	Fig. 00 Ø 2,7 mm	○	192-448-04	Fig. 00000 Ø 2,0 mm	○
192-448-02	Fig. 000 Ø 2,4 mm	○	192-448-05	Fig. 1 Ø 3,3 mm	○
1/1			1/1		

<b>HALLE</b>		<b>21,0 cm; 8 2/8"</b>
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biegsam | flexible | flexible | flexible | flessibile



192-452-02	Fig. 1	○	192-452-11	Fig. 3	○
192-452-01	Fig. 2	○			
1/1			1/1		

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**Scharfe Löffel**  
**Bone Curettes**

Cucharillas cortantes  
Curettes tranchantes  
Curette taglienti



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
	<b>UFFENORDE</b>	17,0 cm; 6 6/8	



192-455-01

links gebogen  
curved left  
curva a la izquierda  
courbée à gauche  
curvo sinistro

192-455-02

rechts gebogen  
curved right  
curva a la derecha  
courbée à droite  
curvo destro

	<b>SCHEDE</b>	17,0 cm; 6 6/8"	
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192-467-01

Fig. 0



192-467-12

Fig. 2



192-467-02

Fig. 00



192-467-13

Fig. 3



192-467-03

Fig. 000



192-467-14

Fig. 4



192-467-11

Fig. 1



1/1

1/1

**Scharfe Löffel**  
**Bone Curettes**

Cucharillas cortantes  
Curettes tranchantes  
Curette taglianti



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
<b>VOLKMANN</b>		<b>17,0 cm; 6 6/8"</b>	



192-469-01	Fig. 0		192-469-12	Fig. 2	
192-469-02	Fig. 00		192-469-13	Fig. 3	
192-469-03	Fig. 000		192-469-14	Fig. 4	
192-469-04	Fig. 0000		192-469-15	Fig. 5	
192-469-11	Fig. 1		192-469-16	Fig. 6	
1/1			1/1		

**BRUNS**

**17,0 cm; 6 6/8"**



192-472-01	Fig. 0		192-472-12	Fig. 2	
192-472-02	Fig. 00		192-472-13	Fig. 3	
192-472-03	Fig. 000		192-472-14	Fig. 4	
192-472-04	Fig. 0000		192-472-15	Fig. 5	
192-472-11	Fig. 1		192-472-16	Fig. 6	
1/1			1/1		

**Scharfe Löffel**  
**Bone Curettes**

Cucharillas cortantes  
Curettes tranchantes  
Curette taglianti



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
<b>BRUNS</b>		<b>23,0 cm; 9"</b>	



192-473-01	Fig. 0		192-473-13	Fig. 3	
192-473-02	Fig. 00		192-473-14	Fig. 4	
192-473-03	Fig. 000		192-473-15	Fig. 5	
192-473-11	Fig. 1		192-473-16	Fig. 6	
192-473-12	Fig. 2				

1/1

1/1

**SPRATT**

**17,0 cm; 6 6/8"**



192-475-01	Fig. 0		192-475-12	Fig. 2	
192-475-02	Fig. 00		192-475-13	Fig. 3	
192-475-03	Fig. 000		192-475-14	Fig. 4	
192-475-04	Fig. 0000		192-475-15	Fig. 5	
192-475-05	Fig. 00000		192-475-16	Fig. 6	
192-475-11	Fig. 1				

1/1

1/1

**Scharfe Löffel**  
**Bone Curettes**

Cucharillas cortantes  
Curettes tranchantes  
Curette taglianti



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>SPRATT (BRUNS)</b>	<b>23,0 cm; 9"</b>	



192-478-01	Fig. 0		192-478-12	Fig. 2	
192-478-02	Fig. 00		192-478-13	Fig. 3	
192-478-03	Fig. 000		192-478-14	Fig. 4	
192-478-04	Fig. 0000		192-478-15	Fig. 5	
192-478-05	Fig. 00000		192-478-16	Fig. 6	
192-478-11	Fig. 1				

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1/1

**SPRATT (BRUNS)**



192-477-01	Fig. 0	20,0 cm; 8"		192-477-13	Fig. 3	20,0 cm; 8"	
192-479-01	Fig. 0	23,0 cm; 9"		192-479-13	Fig. 3	23,0 cm; 9"	
192-477-02	Fig. 00	20,0 cm; 8"		192-477-14	Fig. 4	20,0 cm; 8"	
192-479-02	Fig. 00	23,0 cm; 9"		192-479-14	Fig. 4	23,0 cm; 9"	
192-477-03	Fig. 000	20,0 cm; 8"		192-477-15	Fig. 5	20,0 cm; 8"	
192-479-03	Fig. 000	23,0 cm; 9"		192-479-15	Fig. 5	23,0 cm; 9"	
192-477-11	Fig. 1	20,0 cm; 8"		192-477-16	Fig. 6	20,0 cm; 8"	
192-479-11	Fig. 1	23,0 cm; 9"		192-479-16	Fig. 6	23,0 cm; 9"	
192-477-12	Fig. 2	20,0 cm; 8"					
192-479-12	Fig. 2	23,0 cm; 9"					

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**Scharfe Löffel**  
**Bone Curettes**

Cucharillas cortantes  
Curettes tranchantes  
Curette taglienti



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>VOLKMANN</b>	<b>17,0 cm; 6 6/8"; FERROZELL</b>	



192-480-01	Fig. 1		192-480-06	Fig. 6	
192-480-02	Fig. 2		192-480-10	Fig. 0	
192-480-03	Fig. 3		192-480-20	Fig. 00	
192-480-04	Fig. 4		192-480-30	Fig. 000	
192-480-05	Fig. 5		192-480-40	Fig. 0000	
1/1			1/1		

	<b>VOLKMANN</b>	<b>27,0 cm; 10 5/8"; FERROZELL</b>
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192-482-01	Fig. 1		192-482-06	Fig. 6	
192-482-02	Fig. 2		192-482-10	Fig. 0	
192-482-03	Fig. 3		192-482-20	Fig. 00	
192-482-04	Fig. 4		192-482-30	Fig. 000	
192-482-05	Fig. 5		192-482-40	Fig. 0000	
1/1			1/1		

**Scharfe Löffel**  
**Bone Curettes**

Cucharillas cortantes  
Curettes tranchantes  
Curette taglianti



Art.Nr. Beschreibung | Description Size Spez.

25,0 cm; 9 7/8"



192-483-00 3,0 mm  192-483-02 5,0 mm 

192-483-01 4,0 mm  192-483-03 6,0 mm 

1/1

1/1

25,0 cm; 9 7/8"



192-484-00 Fig. 000  Ø 3,6 mm 192-484-02 Fig. 0  Ø 5,2 mm


192-484-01 Fig. 00  Ø 4,4 mm 192-484-03 Fig. 1  Ø 6,0 mm

1/1

1/1

25,0 cm; 9 7/8"



192-485-00 Fig. 000  Ø 3,6 mm 192-485-02 Fig. 0  Ø 5,2 mm

192-485-01 Fig. 00  Ø 4,4 mm 192-485-03 Fig. 1  Ø 6,0 mm

1/1

1/1

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**Scharfe Löffel**  
**Bone Curettes**

Cucharillas cortantes  
Curettes tranchantes  
Curette taglianti



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
	<b>DAUBENSPECK</b>	20,0 cm; 7 7/8"	



192-487-01	Fig. 0		192-487-11	Fig. 1	
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192-487-02	Fig. 00		192-487-12	Fig. 2	
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1/1 1/1

	<b>COBB</b>	28,0 cm; 11"
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192-494-00	Fig. 1	
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192-494-01	Fig. 2	
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192-494-02	Fig. 3	
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192-494-03	Fig. 4	
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192-494-04	Fig. 5	
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192-494-05	Fig. 6	
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1/1

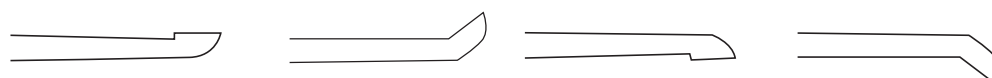


**Scharfe Löffel**  
**Bone Curettes**

Cucharillas cortantes  
Curettes tranchantes  
Curette taglienti



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>Cervical Bayonet Curettes</b>	<b>21,5 cm; 8 1/2"</b>	



Shape	FS	FA	BS	BA
Cup 0	192-610-10	192-611-10	192-612-10	192-613-10
Cup 00	192-610-20	192-611-20	192-612-20	192-613-20
Cup 000	192-610-30	192-611-30	192-612-30	192-613-30
Cup 0000	192-610-40	192-611-40	192-612-40	192-613-40

	<b>Cervical Bayonet Bone Cutter</b>	<b>21,5 cm; 8 1/2"</b>
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Shape	FS	FA	BS	BA
Cup 00	192-610-92	192-611-92	192-612-92	192-613-92

192-614-01	Cervical Bayonet Nerve Hook		21,5 cm; 8 1/2"
192-614-02	Cervical Bayonet Ultra Nerve Hook		21,5 cm; 8 1/2"
192-614-03	Cervical Bayonet Bone Waxer		21,5 cm; 8 1/2"
192-614-99	Cervical Bayonet Knife Handle		21,5 cm; 8 1/2"

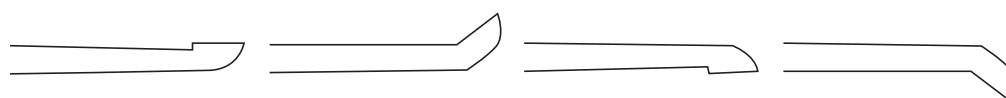
192

**Scharfe Löffel**  
**Bone Curettes**

Cucharillas cortantes  
Curettes tranchantes  
Curette taglienti

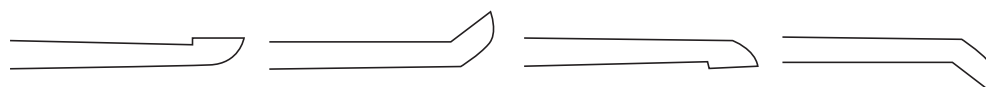


Art.Nr.	Beschreibung   Description	Size	Spez.
	Large Cervical Bayonet Curettes	24,0 cm; 9 1/2"	






Shape	FS	FA	BS	BA
Cup 0	192-620-10	192-621-10	192-622-10	192-623-10
Cup 00	192-620-20	192-621-20	192-622-20	192-623-20
Cup 000	192-620-30	192-621-30	192-622-30	192-623-30
Cup 0000	192-620-40	192-621-40	192-622-40	192-623-40

	Large Cervical Bayonet Bone Cutter	24,0 cm; 9 1/2"
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Shape	FS	FA	BS	BA
Cup 00	192-620-92	192-621-92	192-622-92	192-623-92

192-624-01	Large Cervical Bayonet Nerve Hook		24,0 cm; 9 1/2"
192-624-02	Large Cervical Bayonet Ultra Nerve Hook		24,0 cm; 9 1/2"
192-624-03	Large Cervical Bayonet Bone Waxer		24,0 cm; 9 1/2"

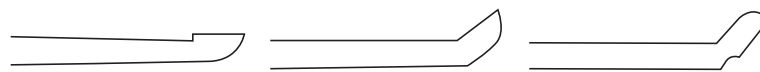
192

**Scharfe Löffel**  
**Bone Curettes**

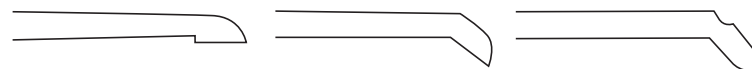
Cucharillas cortantes  
Curettes tranchantes  
Curette taglienti



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>Lumbar Bayonet Curettes</b>	<b>24,0 cm; 9 1/2"</b>	



Shape	FS	FA	FD
Cup 0	192-600-00	192-601-00	192-602-00
Cup 1	192-600-01	192-601-01	192-602-01
Cup 2	192-600-02	192-601-02	192-602-02



Shape	BS	BA	BD
Cup 0	192-603-00	192-604-00	192-605-00
Cup 1	192-603-01	192-604-01	192-605-01
Cup 2	192-603-02	192-604-02	192-605-02

192-606-01	Lumbar Bayonet Penfield Dissector; #1		24,0 cm; 9 1/2"
192-606-02	Lumbar Bayonet Penfield Dissector; #2		24,0 cm; 9 1/2"
192-606-03	Lumbar Bayonet Penfield Dissector; #4		24,0 cm; 9 1/2"
192-607-01	Lumbar Bayonet Nerve Hook		24,0 cm; 9 1/2"
192-607-02	Lumbar Bayonet Cone Waxer		24,0 cm; 9 1/2"
192-607-03	Lumbar Bayonet Spine Probe		24,0 cm; 9 1/2"





## OPEN SURGERY



**Raspatorien; Feilen**

***Periosteal Elevators; Bone Files***

Elevadores; Limas para hueso

Elévateurs; Limes á os

Elevatori; Lime per ossa

# 193




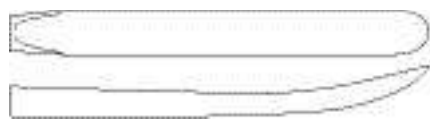
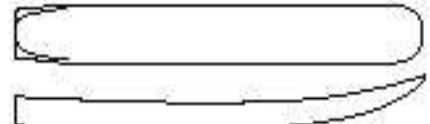

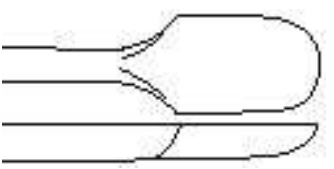

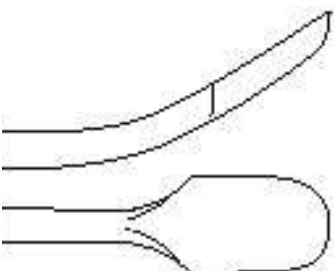
Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
<b>KEY</b>			
193-370-03	17,5 cm; 7" 3,0 mm		
193-370-06	18,0 cm; 7 1/8" 6,5 mm	193-370-19 19,5 mm	20,0 cm; 8"
193-370-12	19,0 cm; 7 4/8" 12,5 mm	193-370-24 24,5 mm	21,0 cm; 8 1/4"
193-370-16	20,0 cm; 8" 16,0 mm		
1/1		1/1	

**LANGENBECK**

19,0 cm; 7 4/8"

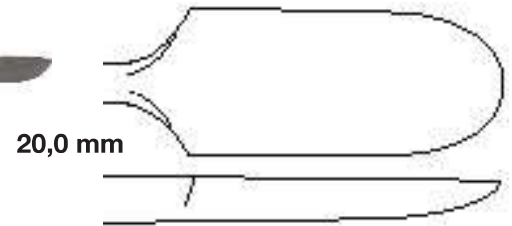
193-383-19	16,0 mm	193-387-19 12,0 mm	
193-385-19	16,0 mm	193-389-18 12,0 mm	
1/1		1/1	



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
		17,0 cm; 6 6/8"	
193-399-06	6,0 mm		
193-399-08	8,0 mm		
1/1			
193-404-20		20,0 cm; 7 7/8"; FERROZELL	
	14,0 mm		
1/1			
193-405-20		19,0 cm; 7 4/8"; FERROZELL	
	14,0 mm		
1/1			

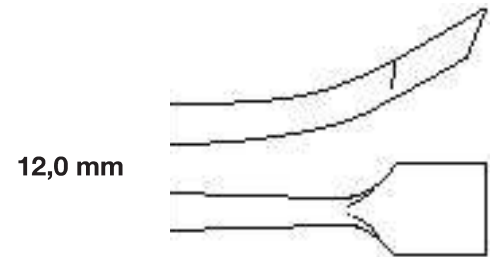


Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
193-408-20		20,5 cm; 7 1/8"; FERROZELL	



1/1

193-411-19		19,0 cm; 7 4/8"; FERROZELL	
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1/1

18,0 cm; 7 1/8"; FERROZELL



193

193-414-18	6,0 mm	
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193-417-18	6,0 mm	
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193-415-18	3,0 mm	
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193-419-18	6,0 mm	
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1/1

1/1

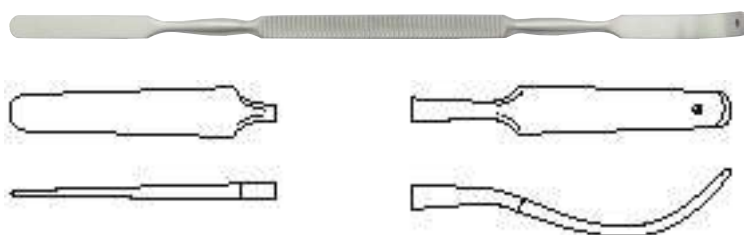


Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
193-437-21	<b>ALDERDYCE</b>	21,0 cm; 8 2/8"	



1/1

193-440-19	<b>MC DONALD</b>	18,5 cm; 7 2/8"	
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1/1

**HOEN**



193-463-07	7,0 mm	16,0 cm; 6 2/8"	
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193-463-15	15,0 mm	19,0 cm; 7 4/8"	
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193-463-20	20,0 mm	19,0 cm; 7 4/8"	
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1/1



Art.Nr. Beschreibung | Description Size Spez.

**CUSHING**



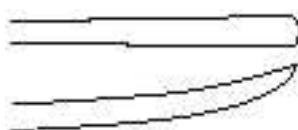
gebogen | curved | curva | courbe | curva

193-464-04 4,0 mm 17,5 cm; 7"

193-464-05 5,0 mm 17,5 cm; 7"

193-464-06 6,0 mm 19,5 cm; 7 6/8"

193-464-07 7,0 mm 19,5 cm; 7 6/8"

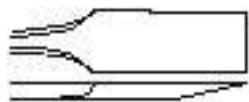


**ADSON**

17,0 cm; 6 6/8"



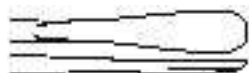
193-465-01 8,0 mm



193-465-02 7,0 mm



193-465-03 7,0 mm



193-465-04 7,0 mm



1/1

1/1

193-466-08 **CUSHING**

17,0 cm; 6 6/8"



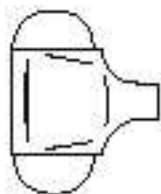
8,0 mm



1/1

193-469-21 **ALEXANDER**

21,0 cm; 8 2/8"



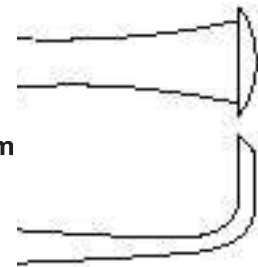
1/1



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
193-471-18	LANGENBECK	18,0 cm; 7 1/8"	



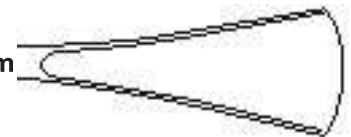
14,0 mm



193-472-19	LANGENBECK	19,0 cm; 7 4/8"	
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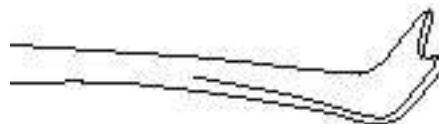
18,0 mm



**SEMB**



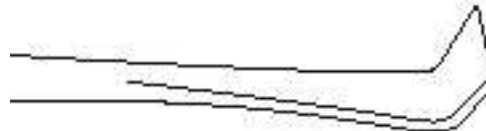
193-473-01	Fig. 1	12,0 mm		19,0 cm; 7 4/8"
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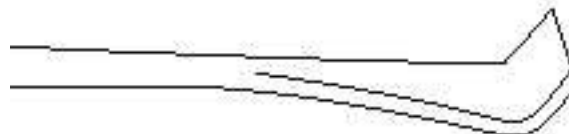
193-473-02	Fig. 2	12,0 mm		22,0 cm; 8 5/8"
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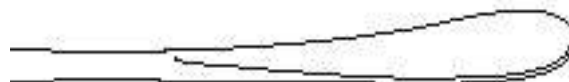
193-473-03	Fig. 3	14,0 mm		19,0 cm; 7 4/8"
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193-473-04	Fig. 4	14,0 mm		22,0 cm; 8 5/8"
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193-473-05	Fig. 5	16,0 mm		23,0 cm; 9"
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Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
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193-476-15 **KÖNIG** 15,5 cm; 6 1/8"



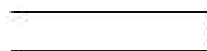
5,0 mm



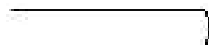
1/1

**LAMBOTTE**

21,5 cm; 8 4/8"



193-477-05 5,0 mm 193-477-20 20,0 mm



193-477-10 10,0 mm



193-477-15 15,0 mm 193-477-25 25,0 mm



1/1

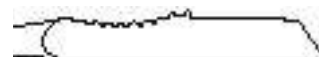
1/1

193-478-15 **FARABEUF** 15,5 cm; 6 1/8"

gerade | straight | recta | droite | retta



12,5 mm



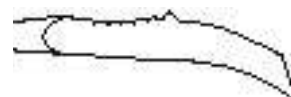
1/1

193-479-15 **FARABEUF** 15,5 cm; 6 1/8"

gebogen | curved | curva | courbe | curva



12,5 mm



1/1





Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
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**WILLIGER**

16,0 cm; 6 4/8"



193-480-04 4,0 mm

193-480-06 6,0 mm

193-480-08 8,0 mm



193-480-14 **WILLIGER**

13,0 cm; 5 1/8"



6,0 mm



1/1

193-488-21 **SEDILLOT**

22,0 cm; 8 5/8"



15,0 mm



1/1



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
	<b>DOYEN</b>	17,5 cm; 7"	

für Erwachsene | for adults | para adultos | pour adultes | per adulti



193-481-17



rechts gebogen | **curved right**  
 curva a la derecha | courbé à droite  
 curvo destro

1/1

193-483-17



links gebogen | **curved left**  
 curva a la izquierda | courbé à gauche  
 curvo sinistro

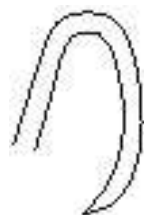
1/1

	<b>DOYEN</b>	17,5 cm; 7"	
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für Kinder | for children | para niños | pour enfants | per bambini



193-485-17



rechts gebogen | **curved right**  
 curva a la derecha | courbé à droite  
 curvo destro

1/1

193-487-17



links gebogen | **curved left**  
 curva a la izquierda | courbé à gauche  
 curvo sinistro

1/1

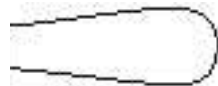


Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
	<b>COBB</b>	<b>28,0 cm; 11"</b>	



193-493-10

10,0 mm



193-493-19

19,0 mm



193-493-13

13,0 mm



193-493-25

25,0 mm



1/1

1/1

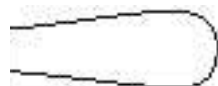
**COBB**

**25,0 cm; 9 7/8"; FERROZELL**



193-495-10

10,0 mm



193-495-19

19,0 mm



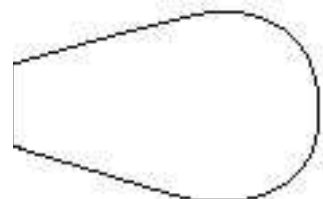
193-495-13

13,0 mm



193-495-25

25,0 mm



1/1

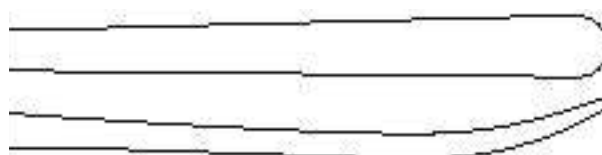
1/1



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
	<b>WAGNER</b>	33,0 cm; 13"; FERROZELL	



193-497-08 8,0 mm



193-497-17 17,0 mm



1/1

27,5 cm; 10 7/8"; FERROZELL



193-499-27 20,0 mm



1/1

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Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
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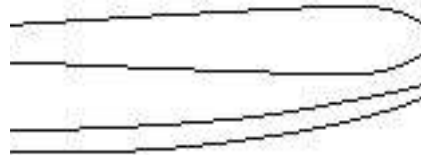
**WILLIGER**



193-512-16	4,0 mm      16,0 cm; 6 2/8"		
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193-512-17	7,0 mm      17,0 cm; 6 6/8"		
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1/1

**LANGENBECK**

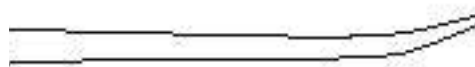
19,5 cm; 7 5/8"



193-520-08	8,0 mm		
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193-520-10	10,0 mm		
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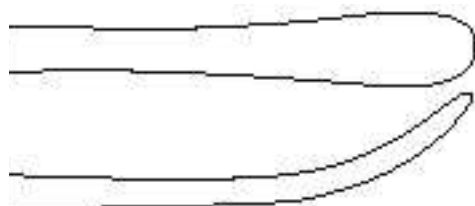


193-521-23	<b>LANGENBECK</b>		
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23,0 cm; 9"



	11,0 mm		
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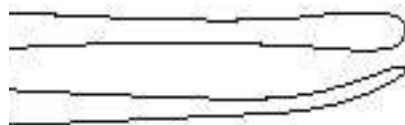
1/1



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
193-523-17	<b>SEBILEAU</b>	17,0 cm; 6 6/8"	



5,0 mm



1/1

193-525-19	<b>QUERVAIN</b>	20,0 cm; 8"	
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6,0 mm



1/1

**LANGENBECK**



193-526-05	5,0 mm	17,0 cm; 6 6/8"	
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193-526-07	7,0 mm	17,0 cm; 6 6/8"
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193-526-08	8,0 mm	19,5 cm; 7 5/8"
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193-526-10	10,0 mm	19,5 cm; 7 5/8"
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193

**Knochenfeilen**  
**Bone Files**

Limas para huesos  
Limes à os  
Lime per ossa



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
193-610-22		22,0 cm; 8 5/8"	
1/1			
193-611-24		25,0 cm; 9 7/8"	
1/1			
193-612-28		28,0 cm; 11"	
1/1			
193-625-27	PUTTI	27,0 cm; 10 7/8"	
			
193-625-30	PUTTI	30,0 cm; 11 6/8"	
			



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>MILLER-COLBURN</b>	18,0 cm; 7 1/8"	

auf Zug schneidend | downwards cutting  
 corte abajo | tranchante en bas | tagliente in basso



193-620-01

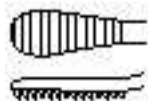
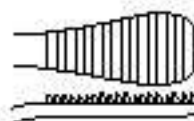


Fig. 1



193-620-02

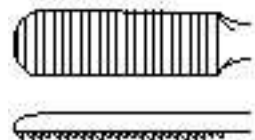
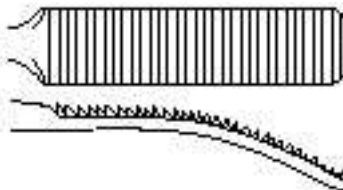


Fig. 2



193-620-03

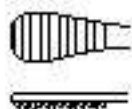
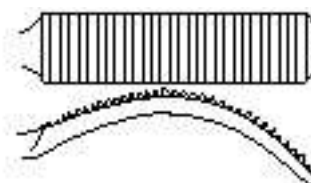


Fig. 3



193-620-04

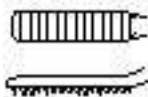


Fig. 4



193-620-05

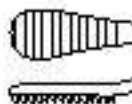
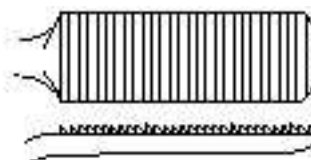


Fig. 5



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**Stößel**  
**Tampers**

Punzones metálicos  
Poussoirs métalliques  
Punzone metallici



Art.Nr.	Beschreibung   Description		Size	Spez.
			15,5 cm; 6 1/8"	
193-640-02	Ø 2,0 mm		193-640-06	Ø 6,0 mm 
193-640-03	Ø 3,0 mm		193-640-08	Ø 8,0 mm 
193-640-04	Ø 4,0 mm		193-640-10	Ø 10,0 mm 
193-640-05	Ø 5,0 mm			



## OPEN SURGERY




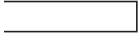

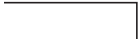










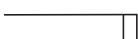
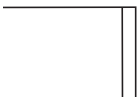

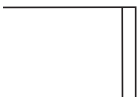





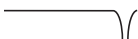
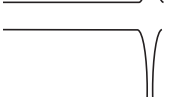
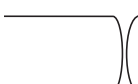

**Osteotome**  
**Flach- und Hohlmeißel**  
***Osteotomes; Chisels; Gouges***  
*Osteótomos; Cinceles; Gubias*  
*Ostéotomes; Burins Plats; Gouges*  
*Osteotomi; Scalpelli; Sgorbie*

# 194

**Osteotome; Flachmeißel; Hohlmeißel**  
**Osteotomes; Chisels; Gouges**

Osteótomos; Cinceles; Gubias  
 Ostéotomes; Burins Plats; Gouges  
 Osteotomi; Scalpelli; Sgorbie



Art.Nr.	Beschreibung   Description	Size	Spez.
		13,5 cm; 5 3/8"	
194-300-04	4,0 mm 	194-300-12 12,0 mm	
194-300-06	6,0 mm 	194-300-14 14,0 mm	
194-300-08	8,0 mm 		
194-300-10	10,0 mm 	194-300-16 16,0 mm	
1/1		1/1	
		13,5 cm; 5 3/8"	
194-301-04	4,0 mm 	194-301-12 12,0 mm	
194-301-06	6,0 mm 		
194-301-08	8,0 mm 	194-301-14 14,0 mm	
194-301-10	10,0 mm 	194-301-16 16,0 mm	
1/1		1/1	
		13,5 cm; 5 3/8"	
194-302-04	4,0 mm 	194-302-12 12,0 mm	
194-302-06	6,0 mm 	194-302-14 14,0 mm	
194-302-08	8,0 mm 		
194-302-10	10,0 mm 	194-302-16 16,0 mm	
1/1		1/1	

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**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

Osteótomos; Cinceles; Gubias

Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>HOKE</b>	<b>14,0 cm; 5 4/8"</b>	



194-306-02	2,0 mm	<input type="checkbox"/>	194-306-07	7,0 mm	<input type="checkbox"/>
194-306-03	3,0 mm	<input type="checkbox"/>	194-306-08	8,0 mm	<input type="checkbox"/>
194-306-04	4,0 mm	<input type="checkbox"/>	194-306-09	9,0 mm	<input type="checkbox"/>
194-306-05	5,0 mm	<input type="checkbox"/>	194-306-10	10,0 mm	<input type="checkbox"/>
194-306-06	6,0 mm	<input type="checkbox"/>	194-306-12	12,0 mm	<input type="checkbox"/>

1/1

1/1

	<b>HOKE</b>	<b>14,0 cm; 5 4/8"</b>	
--	-------------	------------------------	--



194-307-02	2,0 mm	<input type="checkbox"/>	194-307-07	7,0 mm	<input type="checkbox"/>
194-307-03	3,0 mm	<input type="checkbox"/>	194-307-08	8,0 mm	<input type="checkbox"/>
194-307-04	4,0 mm	<input type="checkbox"/>	194-307-10	10,0 mm	<input type="checkbox"/>
194-307-05	5,0 mm	<input type="checkbox"/>	194-307-12	12,0 mm	<input type="checkbox"/>
194-307-06	6,0 mm	<input type="checkbox"/>			

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Art.Nr.	Beschreibung   Description	Size	Spez.
<b>ALEXANDER</b>		17,5 cm; 6 7/8"	



194-316-04	4,0 mm		194-316-10	10,0 mm	
194-316-06	6,0 mm		194-316-12	12,0 mm	
194-316-08	8,0 mm		194-316-14	14,0 mm	

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<b>ALEXANDER</b>		17,5 cm; 6 7/8"	
------------------	--	-----------------	--



194-318-04	4,0 mm		194-318-10	10,0 mm	
194-318-06	6,0 mm		194-318-12	12,0 mm	
194-318-08	8,0 mm		194-318-14	14,0 mm	

1/1

1/1

<b>ALEXANDER</b>		17,5 cm; 6 7/8"	
------------------	--	-----------------	--



194-319-04	4,0 mm		194-319-10	10,0 mm	
194-319-06	6,0 mm		194-319-12	12,0 mm	
194-319-08	8,0 mm		194-319-14	14,0 mm	

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**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

Osteótomos; Cinceles; Gubias

Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie



Art.Nr. Beschreibung | Description Size Spez.

**PARTSCH**

13,5 cm; 5 3/8"



194-334-02	2,0 mm		194-334-06	6,0 mm	
194-334-03	3,0 mm		194-334-07	7,0 mm	
194-334-04	4,0 mm		194-334-08	8,0 mm	
194-334-05	5,0 mm				

1/1

1/1

**PARTSCH**

13,5 cm; 5 3/8"



194-336-02	2,0 mm		194-336-06	6,0 mm	
194-336-03	3,0 mm		194-336-07	7,0 mm	
194-336-04	4,0 mm		194-336-08	8,0 mm	
194-336-05	5,0 mm				

1/1

1/1

**PARTSCH**

17,0 cm; 6 6/8"



194-338-02	2,0 mm		194-338-06	6,0 mm	
194-338-03	3,0 mm		194-338-07	7,0 mm	
194-338-04	4,0 mm		194-338-08	8,0 mm	
194-338-05	5,0 mm				

1/1

1/1

**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

Osteótomos; Cinceles; Gubias

Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie



Art.Nr. Beschreibung | Description Size Spez.

**PARTSCH**

17,0 cm; 6 6/8"



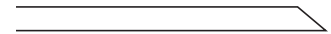
194-340-02	2,0 mm		194-340-06	6,0 mm	
194-340-03	3,0 mm		194-340-07	7,0 mm	
194-340-04	4,0 mm		194-340-08	8,0 mm	
194-340-05	5,0 mm				

1/1

1/1

**HIBBS**

24,5 cm; 9 5/8"



194-342-06	6,0 mm		194-342-22	22,0 mm	
194-342-09	9,0 mm				
194-342-13	13,0 mm		194-342-25	25,0 mm	
194-342-16	16,0 mm		194-342-28	28,0 mm	
194-342-19	19,0 mm		194-342-32	32,0 mm	

1/1

1/1

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**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

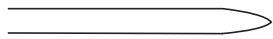
Osteótomos; Cinceles; Gubias

Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>HIBBS</b>	24,5 cm; 9 5/8"	



gerade | straight | recta | droite | retta

194-344-06	6,0 mm	<input type="checkbox"/>
194-344-09	9,0 mm	<input type="checkbox"/>
194-344-13	13,0 mm	<input type="checkbox"/>
194-344-16	16,0 mm	<input type="checkbox"/>
194-344-19	19,0 mm	<input type="checkbox"/>
194-344-22	22,0 mm	<input type="checkbox"/>
194-344-25	25,0 mm	<input type="checkbox"/>
194-344-28	28,0 mm	<input type="checkbox"/>
194-344-32	32,0 mm	<input type="checkbox"/>



gebogen | curved | curva | courbe | curva

194-345-06	6,0 mm	<input type="checkbox"/>
194-345-09	9,0 mm	<input type="checkbox"/>
194-345-13	13,0 mm	<input type="checkbox"/>
194-345-16	16,0 mm	<input type="checkbox"/>
194-345-19	19,0 mm	<input type="checkbox"/>
194-345-22	22,0 mm	<input type="checkbox"/>
194-345-25	25,0 mm	<input type="checkbox"/>
194-345-28	28,0 mm	<input type="checkbox"/>
194-345-32	32,0 mm	<input type="checkbox"/>

**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

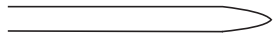
Osteótomos; Cinceles; Gubias

Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>HIBBS</b>	<b>24,5 cm; 9 5/8"</b>	



gerade | straight | recta | droite | retta



gebogen | curved | curva | courbe | curva

194-346-06	6,0 mm	
194-346-09	9,0 mm	
194-346-13	13,0 mm	
194-346-16	16,0 mm	
194-346-19	19,0 mm	
194-346-22	22,0 mm	
194-346-25	25,0 mm	
194-346-28	28,0 mm	
194-346-32	32,0 mm	

194-347-06	6,0 mm	
194-347-09	9,0 mm	
194-347-13	13,0 mm	
194-347-16	16,0 mm	
194-347-19	19,0 mm	
194-347-22	22,0 mm	
194-347-25	25,0 mm	
194-347-28	28,0 mm	
194-347-32	32,0 mm	

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**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

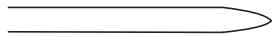
Osteótomos; Cinceles; Gubias

Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>SMITH-PETERSEN</b>	20,5 cm; 8 1/8"	



gerade | straight | recta | droite | retta

194-350-06	6,0 mm	<input type="checkbox"/>
194-350-09	9,0 mm	<input type="checkbox"/>
194-350-13	13,0 mm	<input type="checkbox"/>
194-350-16	16,0 mm	<input type="checkbox"/>
194-350-19	19,0 mm	<input type="checkbox"/>
194-350-25	25,0 mm	<input type="checkbox"/>
194-350-32	32,0 mm	<input type="checkbox"/>



gebogen | curved | curva | courbe | curva

194-351-06	6,0 mm	<input type="checkbox"/>
194-351-09	6,0 mm	<input type="checkbox"/>
194-351-13	13,0 mm	<input type="checkbox"/>
194-351-16	16,0 mm	<input type="checkbox"/>
194-351-19	19,0 mm	<input type="checkbox"/>
194-351-25	25,0 mm	<input type="checkbox"/>
194-351-32	32,0 mm	<input type="checkbox"/>



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>SMITH-PETERSEN</b>	<b>20,5 cm; 8 1/8"</b>	



194-352-06 6,0 mm 

194-352-09 9,0 mm 

194-352-14 13,0 mm 

194-352-16 16,0 mm 

194-352-19 19,0 mm 

194-352-25 25,0 mm 

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**SMITH-PETERSEN**

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



194-353-09 9,0 mm 

194-353-14 13,0 mm 

194-353-16 16,0 mm 

194-353-19 19,0 mm 

194-353-25 25,0 mm 

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**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

Osteótomos; Cinceles; Gubias

Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie



Art.Nr.	Beschreibung   Description	Size	Spez.
<b>STILLE</b>		<b>20,5 cm; 8 1/8"</b>	
194-360-08	8,0 mm		
194-360-10	10,0 mm	194-360-20	20,0 mm
194-360-12	12,0 mm		
194-360-15	15,0 mm	194-360-25	25,0 mm
1/1		1/1	

<b>STILLE</b>		<b>20,5 cm; 8 1/8"</b>	
194-361-08	8,0 mm	194-361-20	20,0 mm
194-361-10	10,0 mm		
194-361-12	12,0 mm	194-361-25	25,0 mm
194-361-15	15,0 mm		
		194-361-30	30,0 mm
1/1		1/1	

**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

Osteótomos; Cinceles; Gubias

Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie



**Art.Nr.**      **Beschreibung | Description**      **Size**      **Spez.**

**STILLE**

20,5 cm; 8 1/8"



194-362-08

8,0 mm



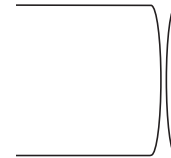
194-362-10

10,0 mm



194-362-20

20,0 mm



194-362-12

12,0 mm



194-362-15

15,0 mm



194-362-25

25,0 mm



1/1

1/1

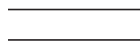
**MINI-LEXER**

18,0 cm; 7 1/8"; FERROZELL



194-370-04

4,0 mm



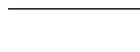
194-370-12

12,0 mm



194-370-06

6,0 mm



194-370-15

15,0 mm



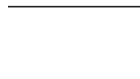
194-370-08

8,0 mm



194-370-10

10,0 mm



194-370-20

20,0 mm



1/1

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**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

Osteótomos; Cinceles; Gubias

Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>MINI-LEXER</b>	18,0 cm; 7 1/8"; FERROZELL	



194-372-04	4,0 mm		194-372-12	12,0 mm	
194-372-06	6,0 mm		194-372-15	15,0 mm	
194-372-08	8,0 mm		194-372-20	20,0 mm	
194-372-10	10,0 mm				

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1/1

**LEXER**

22,0 cm; 8 5/8"; FERROZELL



194-374-05	5,0 mm		194-374-20	20,0 mm	
194-374-07	7,0 mm				
194-374-10	10,0 mm		194-374-25	25,0 mm	
194-374-12	12,0 mm				
194-374-15	15,0 mm		194-374-30	30,0 mm	

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**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

Osteótomos; Cinceles; Gubias

Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>LEXER</b>	<b>22,0 cm; 8 5/8"; FERROZELL</b>	



194-376-05	5,0 mm		194-376-20	20,0 mm	
194-376-07	7,0 mm				
194-376-10	10,0 mm		194-376-25	25,0 mm	
194-376-15	15,0 mm				
			194-376-30	30,0 mm	
1/1			1/1		

**LEXER**

**27,5 cm; 10 7/8"; FERROZELL**



194-381-10	10,0 mm	
194-381-15	15,0 mm	

1/1

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**Osteotome; Flachmeißel; Hohlmeißel**  
**Osteotomes; Chisels; Gouges**

Osteótomos; Cinceles; Gubias  
 Ostéotomes; Burins Plats; Gouges  
 Osteotomi; Scalpelli; Sgorbie



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>LEXER</b>	27,5 cm; 10 7/8"; FERROZELL	

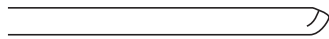


194-383-10	5,0 mm	
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194-383-15	15,0 mm	
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1/1

	<b>LEXER</b>	24,5 cm; 9 5/8"; FERROZELL
--	--------------	----------------------------



gerade | straight | recta | droite | retta

194-386-05	5,0 mm	
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194-386-10	10,0 mm	
------------	---------	--

194-386-15	15,0 mm	
------------	---------	--

1/1



gebogen | curved | curva | courbe | curva

194-387-05	5,0 mm	
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194-387-10	10,0 mm	
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194-387-15	15,0 mm	
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1/1

	<b>LEXER</b>	28,5 cm; 11 2/8"; FERROZELL
--	--------------	-----------------------------



194-388-07	7,0 mm	
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194-388-10	10,0 mm	
------------	---------	--

1/1

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**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

Osteótomos; Cinceles; Gubias

Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
194-390-28	COBB	27,5 cm; 10 7/8"; FERROZELL	



1/1

194-391-27	COBB	27,5 cm; 10 7/8"; FERROZELL	
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1/1

194-393-27	COBB	27,5 cm; 10 7/8"; FERROZELL	
------------	------	-----------------------------	--



1/1

194-395-27	COBB	27,5 cm; 10 7/8"; FERROZELL	
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1/1

**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

Osteótomos; Cinceles; Gubias

Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>DAHMEN</b>	30,0 cm; 11 6/8"; FERROZELL	



	Osteotom Osteotome Osteótomos Ostéotome Osteotomi	Hohlmeißel Gouge Gubias Gouge Sgorbie	Osteotom Osteotome Osteótomos Ostéotome Osteotomi	Hohlmeißel Gouge Gubias Gouge Sgorbie
4,0 mm	194-402-04	194-406-04	194-403-04	194-407-04
5,0 mm	194-402-05	194-406-05	194-403-05	194-407-05
6,0 mm	194-402-06	194-406-06	194-403-06	194-407-06
8,0 mm	194-402-08	194-406-08	194-403-08	194-407-08
10,0 mm	194-402-10	194-406-10	194-403-10	194-407-10
12,0 mm	194-402-12	194-406-12	194-403-12	194-407-12
15,0 mm	194-402-15	194-406-15	194-403-15	194-407-15
20,0 mm	194-402-20	194-406-20	194-403-20	194-407-20
22,0 mm	194-402-22	194-406-22	194-403-22	194-407-22
25,0 mm	194-402-25	194-406-25	194-403-25	194-407-25

**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

Osteótomos; Cinceles; Gubias

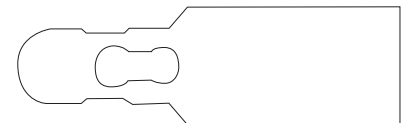
Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie

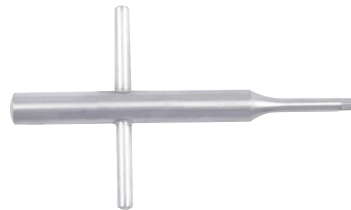


Art.Nr.	Beschreibung   Description	Size	Spez.
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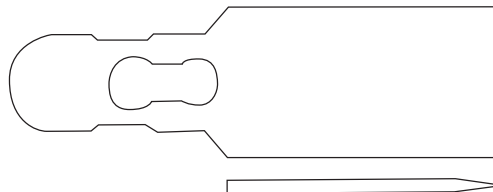
194-430-18	<b>Meißelgriff mit Schlüssel für auswechselbare Klängen</b> <b>Chisel handle with key for interchangeable blades</b> Mango de cincel para hojas intercambiables Manche de burin pour lames interchangeables Manico per scalpello per lami intercambiabili	18,5 cm; 7 2/8"; FERROZELL	
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194-430-01	<b>Spannschlüssel</b> <b>Key</b> Llave Clé Chiave		
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	<b>Osteotomklinge</b> <b>Osteotome blade</b> Hojas de osteótomo Lame d'ostéotome Lame per osteotomi		
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194-431-05	5,0 mm		
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194-431-10	10,0 mm		
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194-431-16	16,0 mm		
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194-431-25	25,0 mm		
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**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

Osteótomos; Cinceles; Gubias

Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>Flachmeißelklinge</b> <b>Chisel blade</b> Hojas de cincel Lame de burin plat Lame scalpelli		
194-432-05	5,0 mm	194-432-16 16,0 mm	
194-432-10	10,0 mm	194-432-25 25,0 mm	
1/1		1/1	

	<b>Hohlmeißelklinge</b> <b>Gouge blades</b> Hojas de gubia Lame de gouge Lame sgorbie		
194-433-50	25,0 mm	r = 50,0 mm	
194-433-60	25,0 mm	r = 60,0 mm	
194-433-70	25,0 mm	r = 70,0 mm	
1/1			

**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

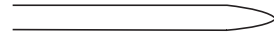
Osteótomos; Cinceles; Gubias

Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>MINI-LAMBOTTE</b>	<b>12,5 cm; 4 7/8"</b>	

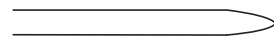


194-446-02	2,0 mm		194-446-08	8,0 mm	
194-446-03	3,0 mm		194-446-10	10,0 mm	
194-446-04	4,0 mm		194-446-12	12,0 mm	
194-446-06	6,0 mm		194-446-15	15,0 mm	

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1/1

	<b>MINI-LAMBOTTE</b>	<b>17,0 cm; 6 6/8"</b>	
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194-448-03	3,0 mm		194-448-10	10,0 mm	
194-448-04	4,0 mm		194-448-12	12,0 mm	
194-448-06	6,0 mm		194-448-15	15,0 mm	
194-448-08	8,0 mm				

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1/1

194

**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

Osteótomos; Cinceles; Gubias

Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
	<b>LAMBOTTE</b>	<b>24,0 cm; 9 4/8"</b>	



194-450-04	4,0 mm				
194-450-06	6,0 mm		194-450-30	30,0 mm	
194-450-08	8,0 mm				
194-450-10	10,0 mm				
194-450-13	13,0 mm		194-450-38	38,0 mm	
194-450-15	15,0 mm				
194-450-18	18,0 mm				
194-450-20	20,0 mm				
194-450-25	25,0 mm		194-450-50	50,0 mm	

**Osteotome; Flachmeißel; Hohlmeißel**

**Osteotomes; Chisels; Gouges**

Osteótomos; Cinceles; Gubias

Ostéotomes; Burins Plats; Gouges

Osteotomi; Scalpelli; Sgorbie



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
	<b>LAMBOTTE</b>	<b>24,0 cm; 9 4/8"</b>	



gebogen | curved | *curva* | *courbe* | *curva*

194-451-04	4,0 mm	<input type="checkbox"/>			
194-451-06	6,0 mm	<input type="checkbox"/>	194-451-30	30,0 mm	<input type="checkbox"/>
194-451-08	8,0 mm	<input type="checkbox"/>			<input type="checkbox"/>
194-451-10	10,0 mm	<input type="checkbox"/>			<input type="checkbox"/>
194-451-13	13,0 mm	<input type="checkbox"/>	194-451-38	38,0 mm	<input type="checkbox"/>
194-451-15	15,0 mm	<input type="checkbox"/>			<input type="checkbox"/>
194-451-18	18,0 mm	<input type="checkbox"/>	194-451-44	44,0 mm	<input type="checkbox"/>
194-451-20	20,0 mm	<input type="checkbox"/>			<input type="checkbox"/>
194-451-25	25,0 mm	<input type="checkbox"/>	194-451-50	50,0 mm	<input type="checkbox"/>

1/1

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## OPEN SURGERY



**Knochenhaltezangen  
Sehneninstrumente**

***Bone Holding Forceps  
Tendon Instruments***

Pinzas para hueso  
Instrumentos para tendones

Daviers porte-os  
Instruments pour les tendons

Tenaglie per ossa  
Strumenti per tendini

# 195

**Knochenhalteklammern; Repositionszangen**  
**Bone Holding Clamps; Reposition Forceps**

Grapas porta-huesos; Pinzas para reposición

Daviers à os; Pincers à réposition

Tenaglie per ossa; Pinze per riposizioni



**Art.Nr.**      **Beschreibung | Description**      **Size**      **Spez.**

**GERSTER-LOWMAN**



- 195-102-18      18,0 cm; 7"
- 195-102-20      20,0 cm; 8"
- 195-102-22      22,0 cm; 8 6/8"

195-128-13      13,5 cm; 5 1/4"




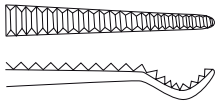

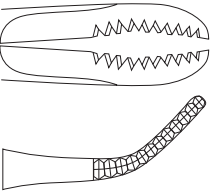



195-129-13      13,5 cm; 5 1/4"



**Knochenhaltezangen**  
**Bone Holding Forceps**

Pinzas para hueso  
Daviers porte-os  
Tenaglie per ossa

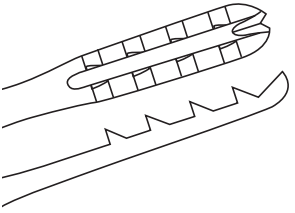
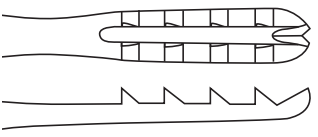
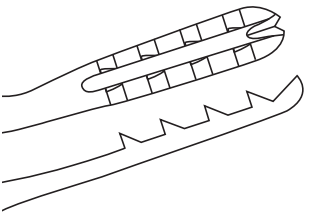


Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
195-130-14		14,0 cm; 5 4/8"	
1/1			
195-132-14		14,5 cm; 5 6/8"	
1/1			
195-140-13		13,5 cm; 5 3/8"	
1/1			
195-141-23	<b>VAN BUREN</b>	23,0 cm; 9"	
1/1			

**Knorpelfasszangen**  
**Cartilage Seizing Forceps**

Pinzas para cartílago  
 Pincas à cartilage  
 Pinze per cartilagine



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>BIRCHER-GANSKE</b>	20,0 cm; 7 7/8"	
195-143-20	seitwärts gebogen   curved sideways curva lateralmente   courbée sur le côté   curva lateralmente		
195-144-20	gerade   straight   recta   droite   retta		
195-145-20	aufgebogen   curved upwards curva por arriba   courbée en haut   curva in alto		
1/1			

195-154-19	<b>MARTIN</b>	18,5 cm; 7 2/8"	
			
1/1			

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**Knochenhaltezangen**  
**Bone Holding Forceps**

Pinzas para hueso  
Daviers porte-os  
Tenaglie per ossa

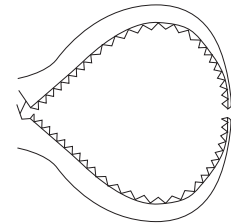
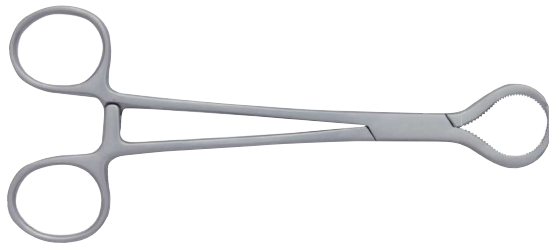


**Art.Nr.**      **Beschreibung | Description**      **Size**      **Spez.**

195-161-17

**LEWIN**

18,0 cm; 7 1/8"

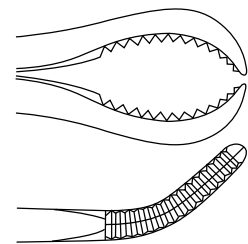


1/1

195-163-17

**mit Gewindesperre**  
**with thread fixation**  
con cremallera de rosca  
avec crémaillère filetée  
con cremagliera centrale a filettatura

17,5 cm; 6 7/8"

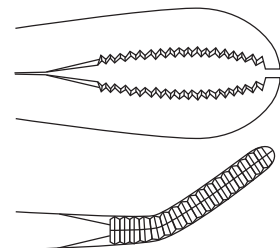


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195-163-24

**mit Gewindesperre**  
**with thread fixation**  
con cremallera de rosca  
avec crémaillère filetée  
con cremagliera centrale a filettatura

24,0 cm; 9 4/8"



1/1

**Knochenhaltezangen**  
**Bone Holding Forceps**

Pinzas para hueso  
Daviers porte-os  
Tenaglie per ossa



**Art.Nr.**      **Beschreibung | Description**      **Size**      **Spez.**

195-174-21      **FERGUSSON**      21,0 cm; 8 2/8"



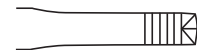
1/1

195-176-21      **LANGENBECK**      21,0 cm; 8 2/8"



1/1

195-178-20      **KERN**      20,0 cm; 7 7/8"



1/1

**KERN**

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



195-182-17      17,0 cm; 6 6/8"



195-182-21      21,0 cm; 8 1/4"



1/1

195

**Knochenhaltezangen**  
**Bone Holding Forceps**

Pinzas para hueso  
Daviers porte-os  
Tenaglie per ossa

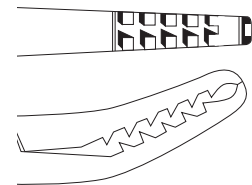


Art.Nr.	Beschreibung   Description	Size	Spez.
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195-187-19

**SEMB**

19,5 cm; 7 5/8"



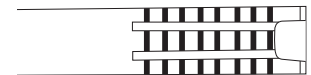
1/1

195-190-33

**LANE**

33,0 cm; 13"

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



1/1

1/1

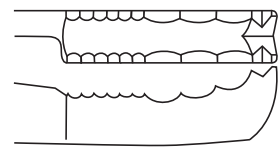
**Knochenhaltezangen**  
**Bone Holding Forceps**

Pinzas para hueso  
Daviers porte-os  
Tenaglie per ossa



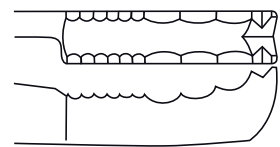
Art.Nr.	Beschreibung   Description	Size	Spez.
195-202-26	<b>FARABEUF</b>	26,0 cm; 10 2/8"	

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



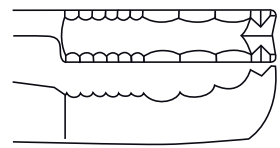
1/1

195-206-23	<b>FARABEUF</b>	23,0 cm; 9"	
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1/1

195-206-26	<b>FARABEUF</b>	26,0 cm; 10 2/8"	
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1/1



**Knochenhaltezangen**  
**Bone Holding Forceps**

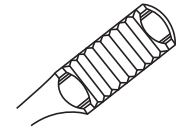
Pinzas para hueso  
Daviers porte-os  
Tenaglie per ossa



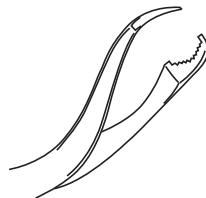
**Art.Nr.**      **Beschreibung | Description**      **Size**      **Spez.**

**VERBRUGGE**

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

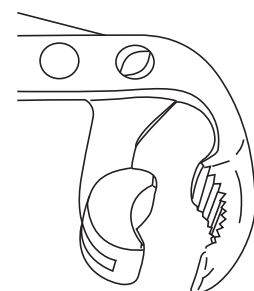


- 195-211-17      17,5 cm; 6 7/8"
- 195-211-25      25,0 cm; 9 7/8"
- 195-211-26      26,0 cm; 10 2/8"
- 195-211-27      27,0 cm; 10 7/8"



**195-217-19      LAMBOTTE      19,0 cm; 7 4/8"**

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



**Knochenhaltezangen**  
**Bone Holding Forceps**

Pinzas para hueso  
Daviers porte-os  
Tenaglie per ossa



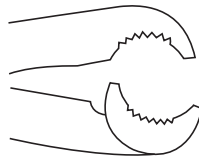
**Art.Nr.**      **Beschreibung | Description**      **Size**      **Spez.**

**LAMBOTTE**

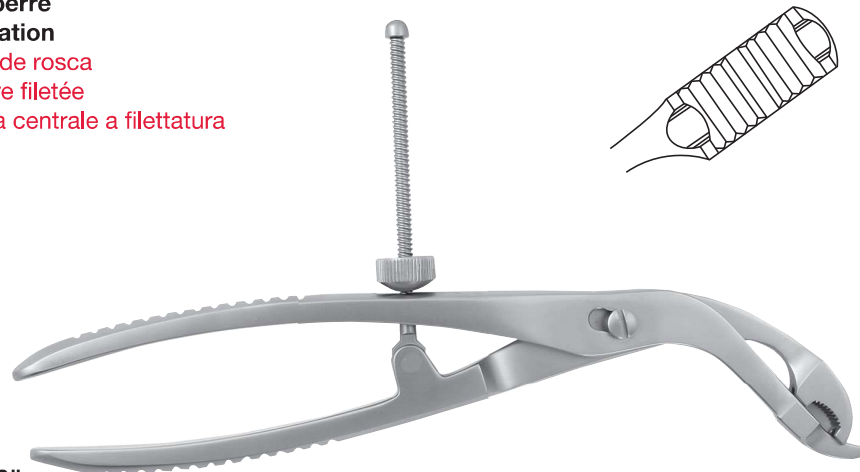
mit Sperre | with catch  
con cremallera | avec crémaillère | con cremagliera



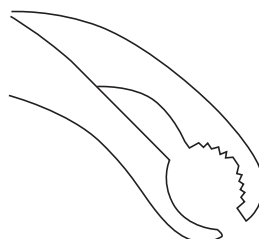
- 195-218-22      22,0 cm; 8 5/8"
- 195-218-27      27,0 cm; 10 5/8"
- 195-218-30      30,0 cm; 11 6/8"



mit Gewindesperre  
with thread fixation  
con cremallera de rosca  
avec crémaillère filetée  
con cremagliera centrale a filettatura



- 195-221-15      15,0 cm; 5 7/8"
- 195-221-19      20,0 cm; 7 7/8"
- 195-221-24      24,0 cm; 9 4/8"
- 195-221-26      26,0 cm; 10 2/8"
- 195-221-28      28,0 cm; 11"



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# Knochenhaltezangen Bone Holding Forceps

Pinzas para hueso

Daviers porte-os

Tenaglie per ossa

**TONTARRA**



Art.Nr.	Beschreibung   Description	Size	Spez.
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<b>ULRICH</b>	mit Gewindesperre with thread fixation con cremallera de rosca avec crémaillère filetée con cremagliera centrale a filettatura		
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gebogen | curved | curva | courbé | curvo

195-225-23	23,0 cm; 9"		
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195-225-25	25,0 cm; 9 7/8"		
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195-225-28	28,0 cm; 11"		
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gerade | straight | recta | droite | retta

195-226-23	23,0 cm; 9"		
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195-226-25	25,0 cm; 9 7/8"		
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195-226-28	28,0 cm; 11"		
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190

**Sehneneinflechtklemmen; Sehnendurchziehzangen  
Tendon Interlacing Forceps; Tendon Holding Forceps**

Pinza para entrelazar tendones; Pinzas para coger tendones  
Pince pour entrelacer les tendons; Pinces pour saisir les tendons  
Pinze per allacciare tendini; Pinze per afferrare tendini



**Art.Nr.**      **Beschreibung | Description**      **Size**      **Spez.**

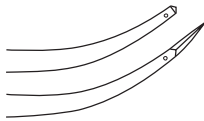
15,0 cm; 5 7/8"



195-234-15



195-235-15



1/1

20,5 cm; 8 1/8"

2 x 3



übersetzt | double action | doble acción | double action | doppio azione

195-238-20



195-239-20



195

**Sehnenfasszangen**  
**Tendon Holding Forceps**

Pinzas para coger tendones  
 Pinces pour saisir les tendons  
 Pinze per afferrare tendini



**Art.Nr.**      **Beschreibung | Description**      **Size**      **Spez.**

**BRAND**



195-241-15	15,0 cm; 5 7/8"	2 x 3	
195-241-19	19,0 cm; 7 4/8"	2 x 3	
195-241-24	24,5 cm; 9 5/8"	2 x 3	

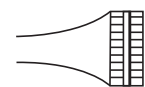
1/1

195-245-11      **CARROLL**      11,5 cm; 4 4/8"



1/1

195-246-16      **STEINMANN**      16,0 cm; 6 2/8"

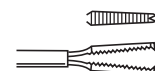


1/1

195-248-20      **KLEINERT-KUTZ**      21,0 cm; 8 2/8"      1 x 2



2,0 mm



1/1

# Sehnenfazzangen; Sehnenstripper Tendon Holding Forceps; Tendon Strippers

Pinzas para coger tendones; enucleadores de tendones  
Pinces pour saisir les tendons; instruments à tirer les tendons  
Pinze per afferrare tendini; scollatendini



Art.Nr.	Beschreibung   Description	Size	Spez.
195-252-11	mit Stellschraube   with fixation screw con cremallera de rosca   avec crémaillère fileté   con cremagliera a filettatura	11,5 cm; 4 4/8"	



1/1

195-260-23	<b>BUNNELL</b>	23,0 cm; 9" Ø 5,0 mm	
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195-262-31	<b>FISCHER</b>	31,0 cm; 12 2/8"; FERROZELL Ø 4,0 mm	
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biegsam   malleable   maleable   malléable   malleabile	23,0 cm; 9"
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195-265-04	Ø 4,0 mm	○
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195-265-05	Ø 5,0 mm	○
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195-265-06	Ø 6,0 mm	○
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1/1

<b>BUNNELL</b>	15,0 cm; 5 7/8"
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195-268-01	Fig. 1	Ø 3,0 mm	○
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195-268-02	Fig. 2	Ø 4,0 mm	○
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195-268-03	Fig. 3	Ø 5,0 mm	○
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195-268-04	Fig. 4	Ø 6,0 mm	○
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195-268-05	Fig. 5	Ø 7,0 mm	○
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1/1

**Kniegelenk-Wundhaken**  
**Knee Retractor**

Separadores para rodilla  
 Ecarteurs pour le genou  
 Divaricatori per il ginocchio



**Art.Nr.**      **Beschreibung | Description**      **Size**      **Spez.**

**SMILLIE**

14,0 cm; 5 1/2"



195-271-01

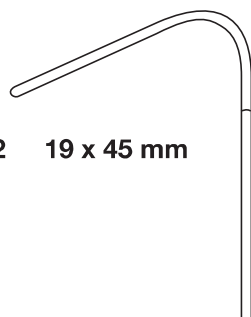
19 x 32 mm



1/1

195-271-02

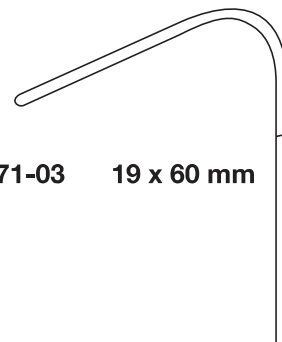
19 x 45 mm



1/1

195-271-03

19 x 60 mm



1/1

195-271-04

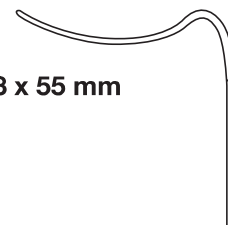
**SMILLIE**

14,0 cm; 5 1/2"



1/1

13 x 55 mm



195-271-05

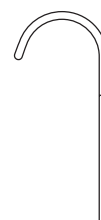
**SMILLIE**

14,0 cm; 5 1/2"



1/1

13 x 15 mm



**Kniehaken; Meniskusmesser**  
**Knee Retractor; Meniscus Knife**

Separadores para rodilla; Cuchillos para menisco  
 Ecarteurs pour le genou; Bistouris à ménisque  
 Divaricatori per il ginocchio; Meniscotomi



Art.Nr.	Beschreibung   Description	Size	Spez.
195-274-17	<b>BLOUNT</b>	17,5 cm; 6 7/8"	

spitz | sharp | agudo | pointu | acuto



**SMILLIE**

17,5 cm; 6 7/8"



195-278-01  
 gerade  
 straigh  
 recto  
 droite  
 retto



1/1

195-278-02  
 Schutz links  
 Protection left  
 Protección a la izquierda  
 Protection à gauche  
 Protezione sinistra



1/1

195-278-03  
 Schutz rechts  
 Protection right  
 Protección a la derecha  
 Protection à droite  
 Protezione destro



1/1



**Meniskusmesser**  
**Meniscus Knife**

Cuchillos para menisco  
Bistouris à ménisque  
Meniscotomi



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
	<b>NEFF</b>	<b>22,0 cm; 8 5/8"</b>	



195-282-01

Fig. 1



195-282-02

Fig. 2



1/1

195-284-17

**NEFF**

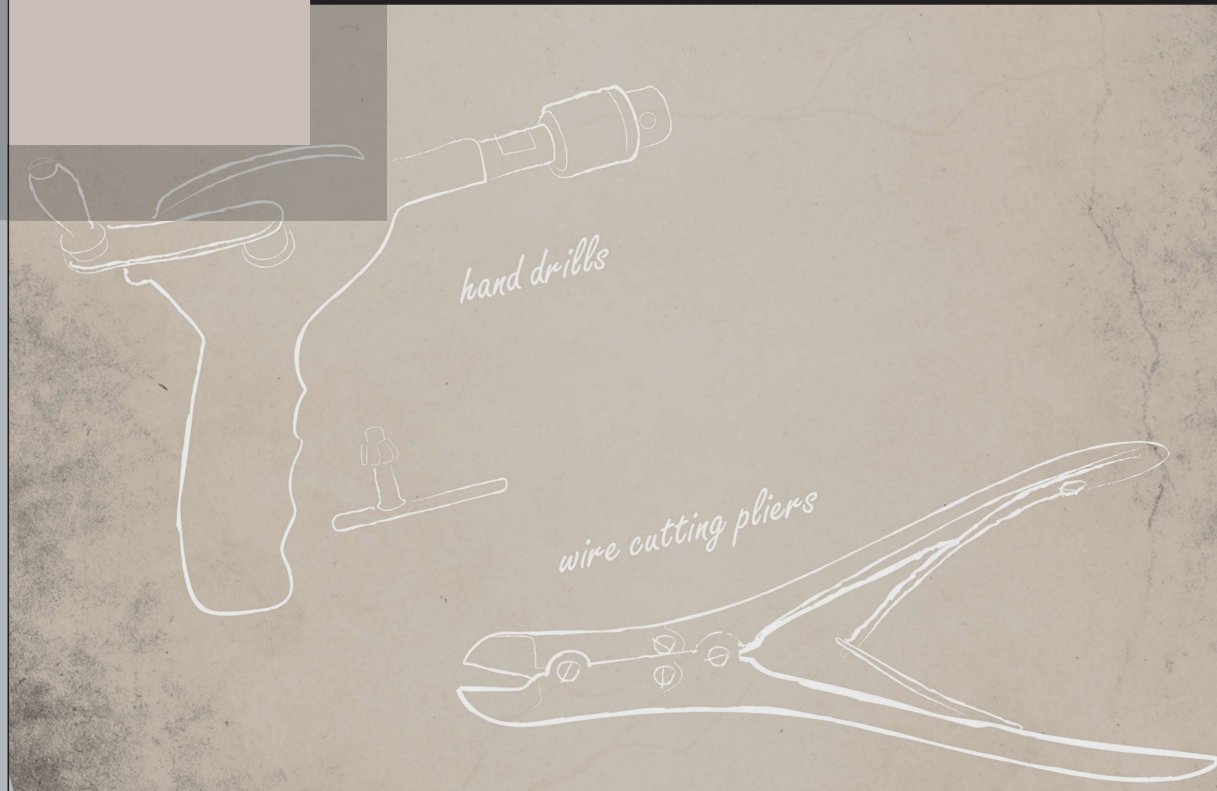
**17,5 cm; 6 7/8"**



1/1



## OPEN SURGERY



**Hohlmeißelzangen  
Knochensplitterzangen**

***Bone Rongeurs  
Bone Cutting Forceps***

Pinzas gubias; Pinzas cortantes para hueso

Pinces-gouges; Pinces coupantes à os

Pinze-sgorbie; Cesioie per ossa

# 196

**Hohlmeißelzangen**  
**Bone Rongeurs**

Pinzas gubias  
Pinces-gouges  
Pinze-sgorbie



Art.Nr.	Beschreibung   Description	Size	Spez.
196-201-12	<b>FRIEDMANN</b>	12,5 cm; 4 7/8"	
1/1			
196-201-14	<b>FRIEDMANN</b>	13,5 cm; 5 3/8"	
1/1			
196-203-14	<b>FRIEDMANN</b>	13,5 cm; 5 3/8"	
1/1			
	<b>STELLBRINK</b>	17,0 cm; 6 6/8"	
196-205-01			
1/1			
196-205-02			
1/1			

196

**Hohlmeißelzangen**  
**Bone Rongeurs**

Pinzas gubias  
Pincés-gouges  
Pinze-sgorbie



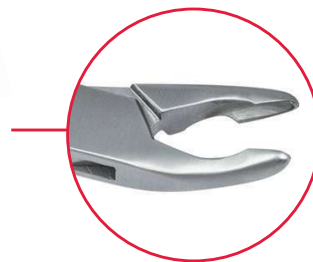
Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
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196-207-14	<b>CLEVELAND</b>	13,5 cm; 5 3/8"	
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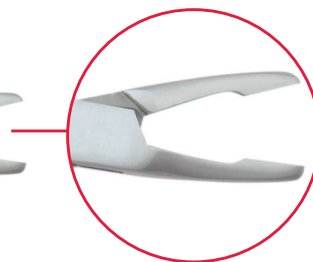
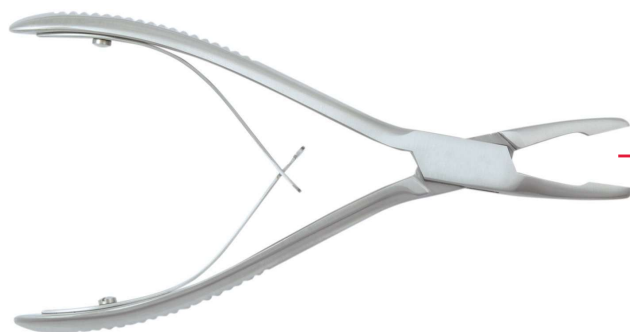
1/1

196-207-17	<b>CLEVELAND</b>	16,5 cm; 6 4/8"	
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1/1

	<b>JANSEN</b>	18,0 cm; 7 1/8"	
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196-208-17



1/1

196-209-17

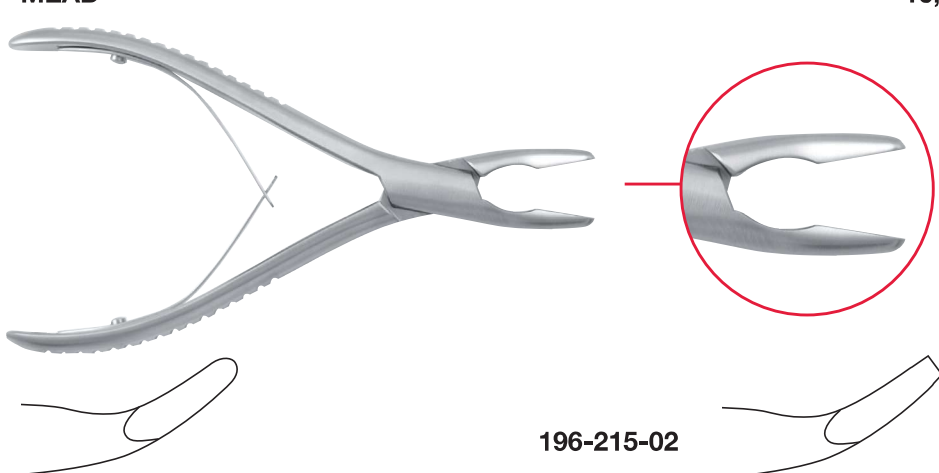



1/1

**Hohlmeißelzangen**  
**Bone Rongeurs**

Pinzas gubias  
Pinces-gouges  
Pinze-sgorbie



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
196-215-01 1/1	<b>MEAD</b> 	16,5 cm; 6 4/8"	
196-215-02 1/1			

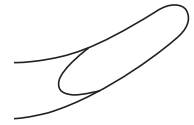
**Hohlmeißelzangen**  
**Bone Rongeurs**

Pinzas gubias  
Pincés-gouges  
Pinze-sgorbie



Art.Nr.	Beschreibung   Description	Size	Spez.
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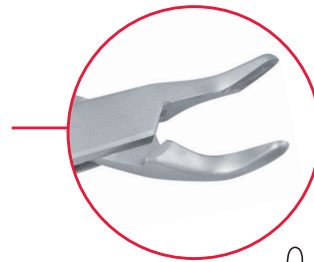
196-221-18	<b>HARTMANN</b>	17,5 cm; 6 7/8"	
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1/1

**BLUMENTHAL**

15,5 cm; 6 1/8"



196-225-30

30°



196-225-90

90°



196-225-45

45°

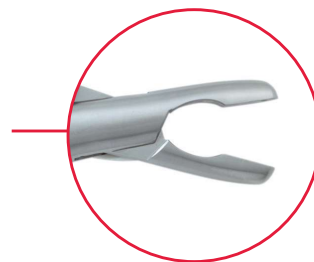


1/1

1/1

**LUER**

18,0 cm; 7 1/8"



196-230-17



1/1

196-231-17

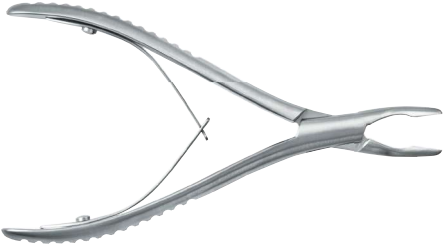
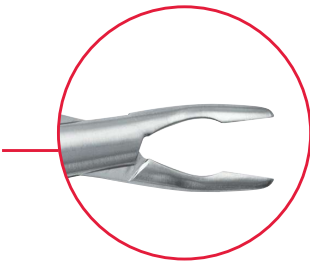
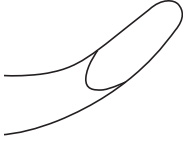

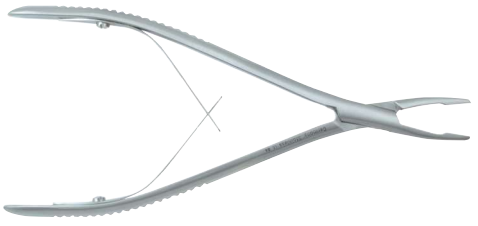

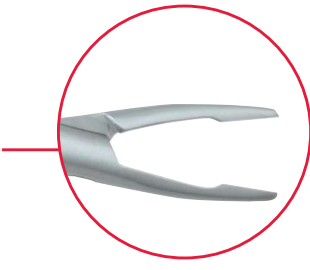





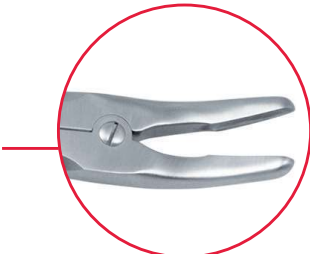



1/1

**Hohlmeißelzangen**  
**Bone Rongeurs**

Pinzas gubias  
Pincés-gouges  
Pinze-sgorbie



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>LUER</b>	14,5 cm; 5 6/8"	
196-233-01	 Fig. 1	 196-233-03 Fig .3	
196-233-02	 Fig. 2		
1/1		1/1	
	<b>LEMPERT</b>	19,0 cm; 7 4/8"	
196-236-19	 	 196-237-19	
1/1		1/1	
196-301-20	<b>MARQUARDT</b>	20,5 cm; 8 1/8"	
1/1			
196-303-17	<b>MAYFIELD</b>	18,0 cm; 7 1/8"	
1/1			





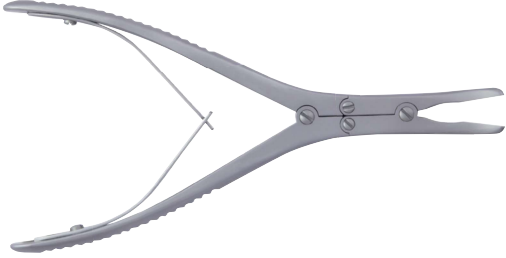

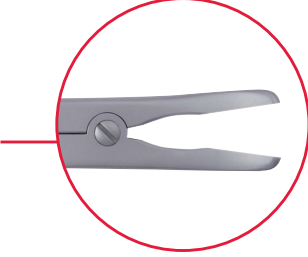





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**Hohlmeißelzangen**  
**Bone Rongeurs**

Pinzas gubias  
Pincas-gouges  
Pinze-sgorbie



Art.Nr.	Beschreibung   Description	Size	Spez.
	<b>BÖHLER</b>	15,0 cm; 5 7/8"	
196-307-01	 	 	1/1
196-307-02			1/1
	<b>BEYER</b>	18,0 cm; 7 1/8"	
196-317-18	 	 	1/1
196-319-18			1/1
196-321-18	<b>ZAUFAL-JANSEN</b>	18,0 cm; 7 1/8"	
	 	 	

**Hohlmeißelzangen**  
**Bone Rongeurs**

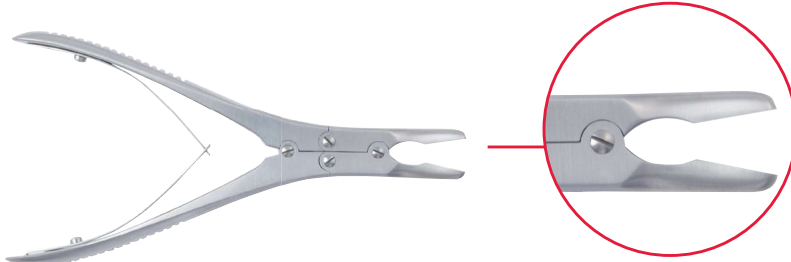
Pinzas gubias  
Pinces-gouges  
Pinze-sgorbie



**Art.Nr.**      **Beschreibung | Description**      **Size**      **Spez.**

**RUSKIN**

18,0 cm; 7 1/8"



196-323-18	6,0 mm		196-324-18	6,0 mm	
196-325-18	4,0 mm		196-326-18	4,0 mm	
1/1			1/1		

**RUSKIN**

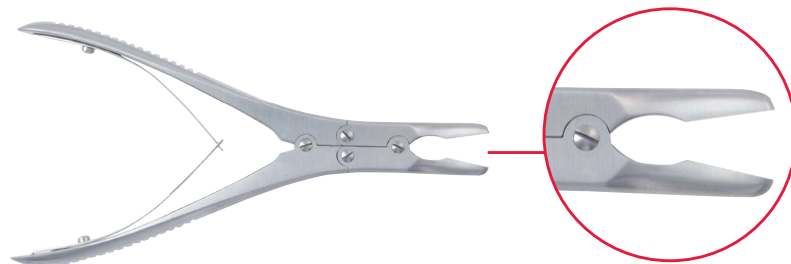
18,0 cm; 7 1/8"



196-327-18	5,0 mm	
1/1		

**RUSKIN**

20,5 cm; 8 1/8"




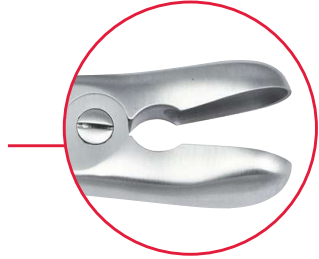
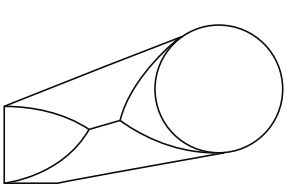


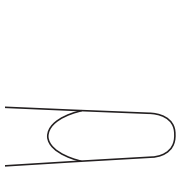

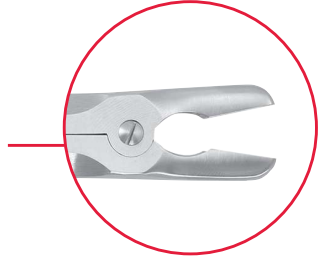
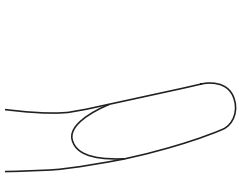


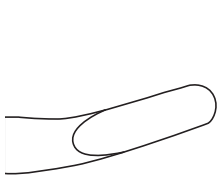
196-330-20	6,0 mm		196-331-20	6,0 mm	
1/1			1/1		

196

**Hohlmeißelzangen**  
**Bone Rongeurs**

Pinzas gubias  
Pincés-gouges  
Pinze-sgorbie



Art.Nr.	Beschreibung   <i>Description</i>	Size	Spez.
196-341-22	<b>SEMB</b>	22,5 cm; 8 7/8"	
1/1			
196-343-23	<b>STILLE</b>	22,5 cm; 8 7/8"	
1/1			
196-345-23	<b>STILLE-RUSKIN</b>	23,5 cm; 9 2/8"	
1/1			
196-347-24	<b>RUSKIN</b>	24,0 cm; 9 4/8"	
1/1			



Art.Nr. Beschreibung | Description Size Spez.

LEKSELL-STILLE

24,5 cm; 9 5/8"



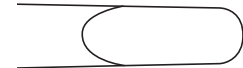
196-349-04

4,0 mm



196-349-08

8,0 mm



1/1

1/1

STILLE-LUER



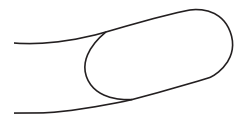
196-352-22

22,0 cm; 8 5/8"



196-353-22

22,0 cm; 8 5/8"



196-352-25

25,0 cm; 9 7/8"

196-353-25

25,0 cm; 9 7/8"

STILLE-LUER



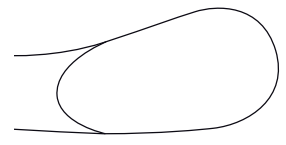
196-354-22

23,0 cm; 9"



196-355-22

23,0 cm; 9"



196-354-27

27,0 cm; 10 5/8"

196-355-27

27,0 cm; 10 5/8"

196

**Hohlmeißelzangen**  
**Bone Rongeurs**

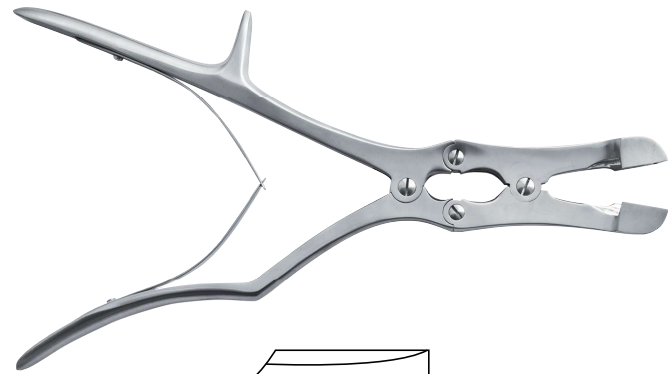
Pinzas gubias  
Pinces-gouges  
Pinze-sgorbie



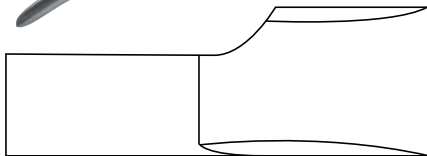
Art.Nr. Beschreibung | Description Size Spez.

**SAUERBRUCH**

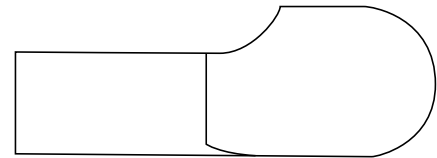
31,0 cm; 12 2/8"



196-356-01



196-356-02



1/1

1/1

**FRYKHOLM**

24,0 cm; 9 4/8"



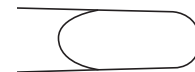
196-357-04

4,0 mm



196-357-08

8,0 mm



1/1

1/1

**ECHLIN**

23,0 cm; 9"



196-361-01

2 x 10 mm



196-361-03

4 x 10 mm



196-361-02

3 x 10 mm



# Knochensplitterzangen

## Bone Cutting Forceps

Pinzas cortantes para hueso

Pinces coupantes à os

Cesoie per ossa

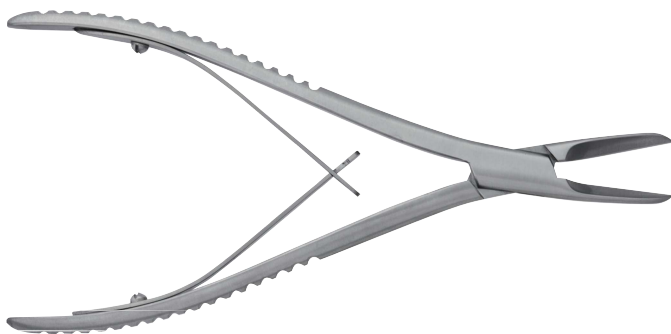


Art.Nr.	Beschreibung   Description	Size	Spez.
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196-500-19

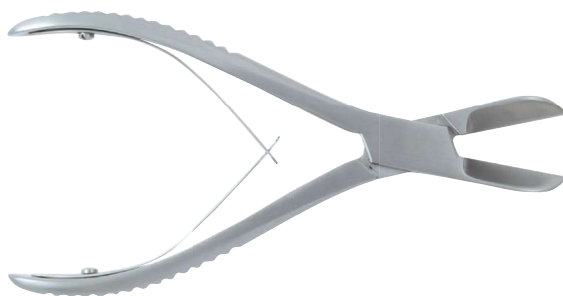
**KAZANJIAN**

19,0 cm; 7 4/8"



1/1

**LISTON**



196-520-14

14,0 cm; 5 4/8"

196-520-17

17,0 cm; 6 6/8"

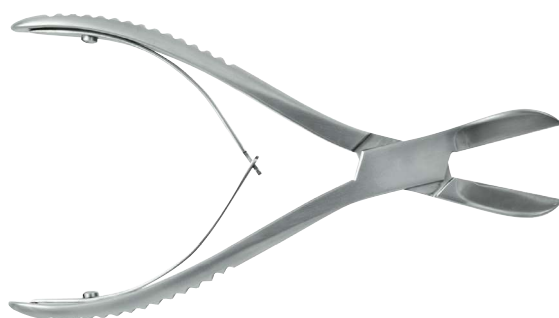
196-520-19

20,0 cm; 7 7/8"

196-520-22

22,0 cm; 8 5/8"

**LISTON**



196-521-14

14,0 cm; 5 4/8"

196-521-17

17,0 cm; 6 6/8"

196-521-19

20,0 cm; 7 7/8"

196-521-22

22,0 cm; 8 5/8"

# Knochensplitterzangen

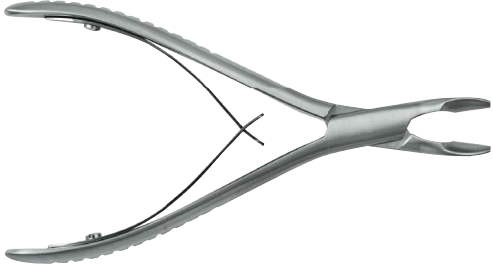
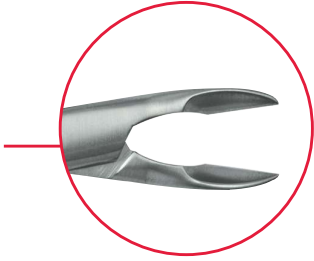

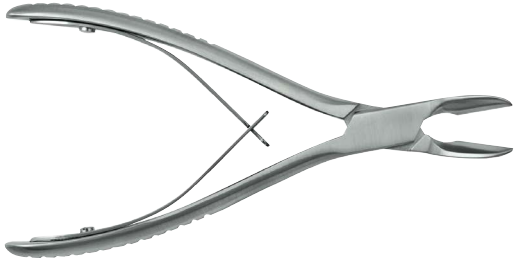
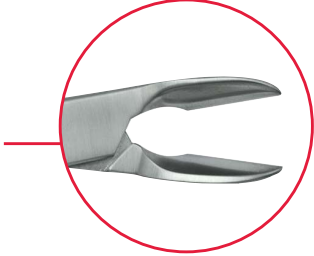



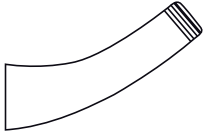
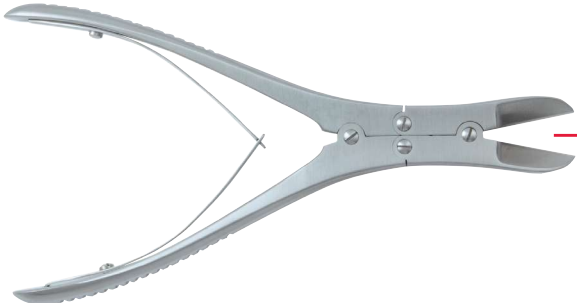


## Bone Cutting Forceps

Pinzas cortantes para hueso

Pinces coupantes à os

Cesoie per ossa



Art.Nr.	Beschreibung   Description	Size	Spez.
196-527-15	<b>CLEVELAND</b>   	14,5 cm; 5 6/8"	
1/1			
196-527-17	<b>CLEVELAND</b>   	17,0 cm; 6 6/8"	
1/1	1/1		
196-528-17	<b>CLEVELAND</b>   	17,0 cm; 6 6/8"	
1/1			
196-602-18	<b>RUSKIN-LISTON</b>   	18,5 cm; 7 2/8"	
1/1			

# Knochensplitterzangen

## Bone Cutting Forceps

Pinzas cortantes para hueso

Pinces coupantes à os

Cesoie per ossa

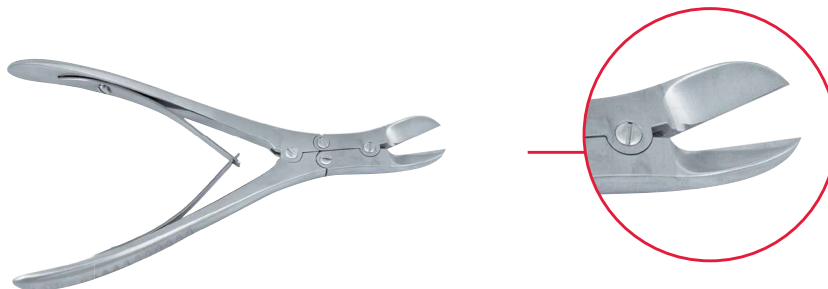


Art.Nr.	Beschreibung   Description	Size	Spez.
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196-603-18

**RUSKIN-LISTON**

18,5 cm; 7 2/8"

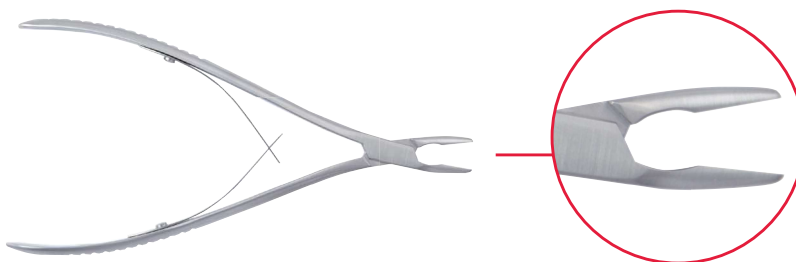


1/1

196-607-17

**MC INDOE**

17,5 cm; 7"



1/1

196-608-14

**BÖHLER**

14,5 cm; 5 6/8"

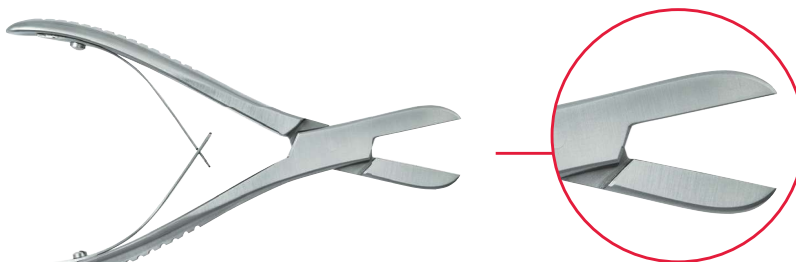


Fig. 1



1/1

196-609-14

**BÖHLER**

14,5 cm; 5 6/8"

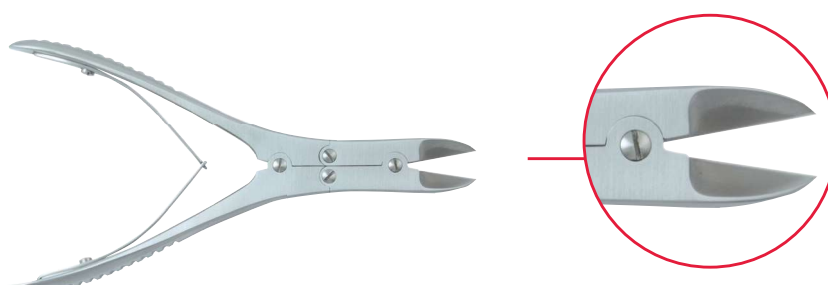


Fig. 2



1/1



# Knochensplitterzangen




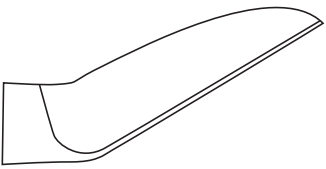

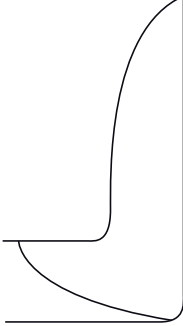

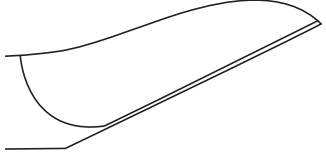
## Bone Cutting Forceps

Pinzas cortantes para hueso

Pinces coupantes à os

Cesoie per ossa



Art.Nr.	Beschreibung   Description	Size	Spez.
196-620-27	<b>LISTON-STILLE</b> 	28,0 cm; 11"	
1/1			
196-621-27	<b>LISTON-STILLE</b> 	28,0 cm; 11"	
1/1			
196-623-27	<b>LISTON-STILLE</b> 	26,0 cm; 10 2/8"	
1/1			
196-638-23	<b>LISTON</b> 	23,5 cm; 10 2/8"	
1/1			

# Knochensplitterzangen

## Bone Cutting Forceps

Pinzas cortantes para hueso

Pinces coupantes à os

Cesoie per ossa



Art.Nr.	Beschreibung   Description	Size	Spez.
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196-633-24

SEMB

24,5 cm; 9 5/8"

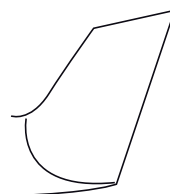


1/1

196-627-27

LISTON-KEY

26,0 cm; 10 2/8"



1/1

**Bleihände**  
**Lead Hands**

Manoplas de plomo  
Manches en plomb  
Mani di piombo



**Art.Nr.**      **Beschreibung | Description**      **Size**      **Spez.**



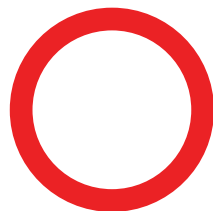
196-986-01      für Kinder | for children | para niños | pour enfants | per bambini

196-986-02      für Erwachsene | for adults | para adultos | pour adultes | per adulti

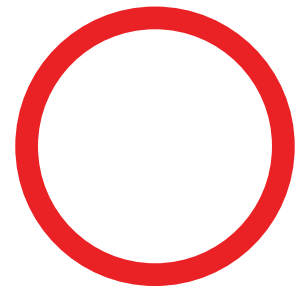
**Silikonring zur Fixation; autoklavierbar**  
**Silicon ring for fixation; autoclavable**

Arandela de silicona para fijación; autoclavable  
Anneau en silicone pour fixation; stérilisable  
Anello di silicone per fissazione; sterilizzabile

196-988-24      24 x 3 mm



196-988-34      34 x 3 mm



196-988-27      27 x 3 mm

