

# RISES TO HEAL

• GIVES  
CONFIDENCE  
STRENGTHEN  
FASTLY



**BONE +  
SURGERY**



**VORLING**  
instruments

HAS THE REPUTATION OF BEING THE ONLY IN PAKISTAN THAT MANUFACTURES ITS OWN TOOLS FOR THE PRODUCTION OF ITS INSTRUMENTS.

## An Era Of **evolution**

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**VORLING** instruments is a privately owned company providing personalized services and the finest in Surgical Instruments for over 25 years. Established in 1999, Our Company manufactures a wide range of Surgical, Dental and Veterinary Instruments.

All Instruments and devices of our product range are manufactured by well-trained and experienced skilled workers with special craftsmanship and by use of most modern machines and equipment. On this occasion we only use materials which meet our high standards. The CEO of Vorling Instruments, Mr. Muhammad Ahmed brings with him a lifetime of knowledge about the world of surgical instruments.

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This insight allows us to understand the needs of our customers in a way most other instrument companies are unable to do.

**After becoming a competent oem service provider, cardiac has decided to introduce itself as the original source of high quality instrumentation to directly interact with some of the well-known brands around the world.**

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**Bone Chisels, Gouges**  
 Knochenmeißel, Hohlmeißel  
 Cinceles, Gubias  
 Ciseaux-burins, Gouges  
 Scalpelli, Sgorbie



1/2

**Virchow**

**V12-100-07**

7,5 cm / 3"

Schädelspalter  
 Skull Breaker  
 Cincel rompe-cráneo  
 Burin pour le crâne  
 Scalpello per cranio



1/2

**V12-101-17**

**V12-102-17**

17 cm / 6 5/8"



1/4

4 mm  
**V12-101-04**



4 mm

**V12-102-04**



1/2

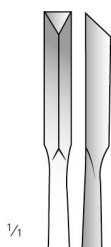
**Gardner**

**V12-103-17**

**V12-105-17**

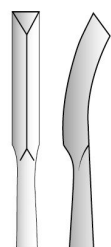
17 cm / 6 5/8"

dreieckige Form  
 triangular shape  
 forma triangulada  
 forme triangulaire  
 forma triangolare



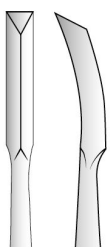
1/4

4 mm  
**V12-103-04**



4 mm

**V12-104-04**



4 mm

**V12-105-04**



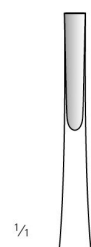
1/2

**Snyder-O.S.U.**

**V12-106-03**

**V12-106-05**

16,5 cm / 6 2/5"



1/4

3 mm  
**V12-106-03**

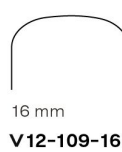
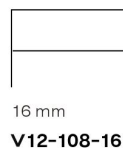
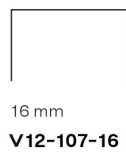
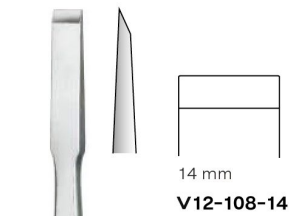
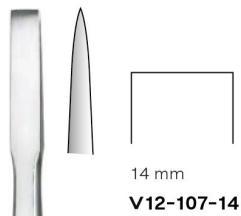
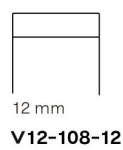
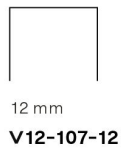
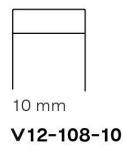
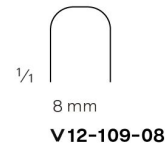
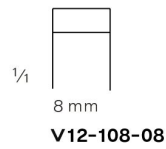
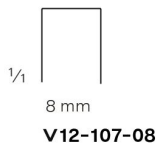


5 mm

**V12-106-05**

**Osteotomes, Chisels, Gouges**

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



1/2

**V12-107-08**  
**V12-107-16**  
13,5 cm / 5 3/8"

1/2

**V12-108-08**  
**V12-108-16**  
13,5 cm / 5 3/8"

1/2

**V12-109-08**  
**V12-109-16**  
13,5 cm / 5 3/8"

**Chisels**


Flachmeißel, Hohlmeißel  
Cinceles  
Ciseaux-burins  
ScalPELLI

  
1/1  
2 mm  
**V12-110-02**  
13,5 cm / 5 3/8"

  
2 mm  
**V12-111-02**  
17 cm / 6 5/8"

  
1/1  
2 mm  
**V12-112-02**  
13,5 cm / 5 3/8"

  
2 mm  
**V12-113-02**  
16,5 cm / 6 4/8"

  
3 mm  
**V12-110-03**  
13,5 cm / 5 3/8"

  
3 mm  
**V12-111-03**  
17 cm / 6 5/8"

  
3 mm  
**V12-112-03**  
13,5 cm / 5 3/8"

  
3 mm  
**V12-113-03**  
16,5 cm / 6 4/8"

  
4 mm  
**V12-110-04**  
13,5 cm / 5 3/8"

  
4 mm  
**V12-111-04**  
17 cm / 6 5/8"

  
4 mm  
**V12-112-04**  
13,5 cm / 5 3/8"

  
4 mm  
**V12-113-04**  
16,5 cm / 6 4/8"

  
5 mm  
**V12-110-05**  
13,5 cm / 5 3/8"

  
5 mm  
**V12-111-05**  
17 cm / 6 5/8"

  
5 mm  
**V12-112-05**  
13,5 cm / 5 3/8"

  
5 mm  
**V12-113-05**  
16,5 cm / 6 4/8"

  
6 mm  
**V12-110-06**  
13,5 cm / 5 3/8"

  
6 mm  
**V12-111-06**  
17 cm / 6 5/8"

  
6 mm  
**V12-112-06**  
13,5 cm / 5 3/8"

  
6 mm  
**V12-113-06**  
16,5 cm / 6 4/8"



**Partsch**  
**V12-110-02**  
**V12-111-06**

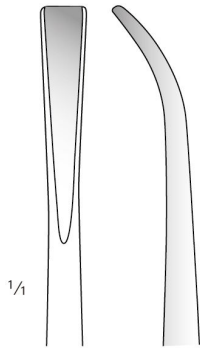


**Partsch**  
**V12-112-02**  
**V12-113-06**

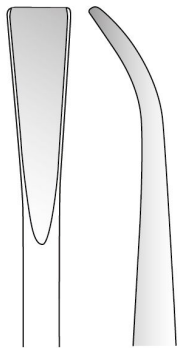


**Chisels**

Flachmeißel, Hohlmeißel  
Cinceles  
Ciseaux-burins  
Scalpelli



5,5 mm  
**V12-114-05**



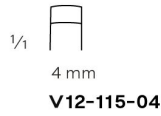
9 mm  
**V12-114-09**



**Zielke**  
**V12-114-05**  
**V12-114-09**

23 cm / 9"

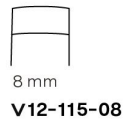
**Sic**



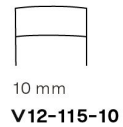
4 mm  
**V12-115-04**



6 mm  
**V12-115-06**



8 mm  
**V12-115-08**



10 mm  
**V12-115-10**



12 mm  
**V12-115-12**



14 mm  
**V12-115-14**



**Alexander**  
**V12-115-04**  
**V12-115-14**

17,5 cm / 6 7/8"

massiv  
solid  
macizo  
solide  
pieno



4 mm  
**V12-116-04**



6 mm  
**V12-116-06**



8 mm  
**V12-116-08**



10 mm  
**V12-116-10**



12 mm  
**V12-116-12**



14 mm  
**V12-116-14**

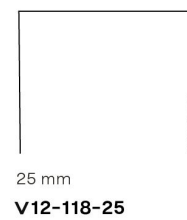
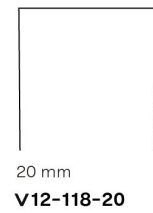
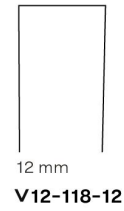
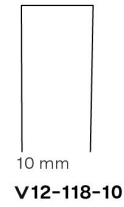
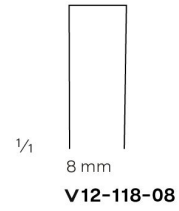
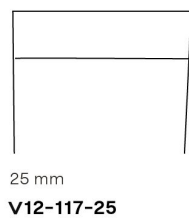
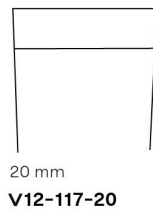
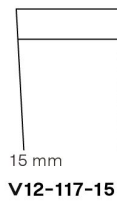
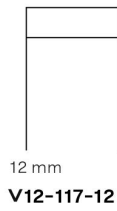
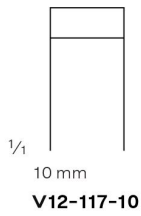


**Alexander**  
**V12-116-04**  
**V12-116-14**

17,5 cm / 6 7/8"

massiv  
solid  
macizo  
solide  
pieno

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



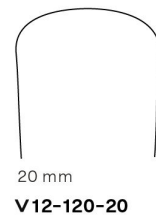
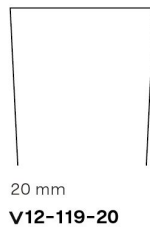
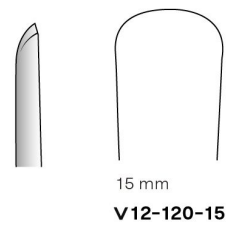
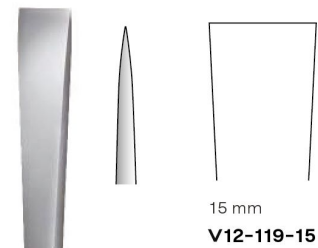
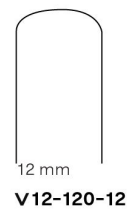
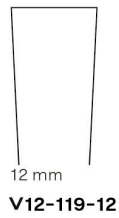
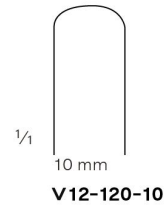
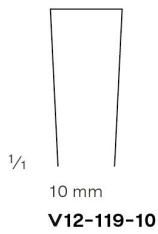
**Stille**  
**V12-117-10**  
**V12-117-25**  
 20,5 cm / 8 1/8"



**Stille**  
**V12-118-08**  
**V12-118-25**  
 20,5 cm / 8 1/8"

**Chisels, Gouges**

Flachmeißel, Hohlmeißel  
Cinceles, Gubias  
Ciseaux-burins, Gouges  
Scalpelli, Sgorbie





**Chisel Blades, Chisel Handle**

Meißelklingen, Meißelgriff  
 Hojas de cincel, Mango para hojas de cincel  
 Lames-gouges, Manche pour ciseaux-burins  
 Lame per sgorbie, Manico per scalpello

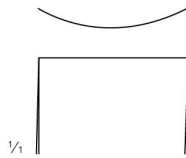


1/1

**V 12-121-50**  
**V 12-121-70**

Hohlmeißelklingen, auswechselbar  
 Gouge blades, interchangeable  
 Hojas de gubia, intercambiables  
 Lames-gouges, interchangeables  
 Lame intercambiabili, concavo

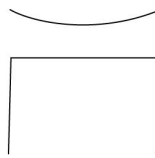
r = 50 mm



25 mm  
**V 12-121-50**  
 13,5 cm / 5 3/8"



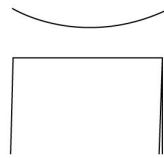
r = 60 mm



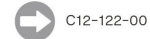
25 mm  
**V 12-121-60**  
 13,5 cm / 5 3/8"



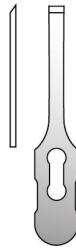
r = 70 mm



25 mm  
**V 12-121-70**  
 13,5 cm / 5 3/8"



Meißelklingen, auswechselbar  
 Chisel blades, interchangeable  
 Hojas de cincel, intercambiables  
 Lames ciseaux-burin, interchangeables  
 Lame intercambiabili



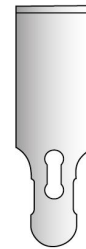
5 mm  
**V 12-122-05**  
 8 cm / 3 1/8"



10 mm  
**V 12-122-10**  
 8 cm / 3 1/8"



16 mm  
**V 12-122-16**  
 8 cm / 3 1/8"



25 mm  
**V 12-122-25**  
 8 cm / 3 1/8"



**V12-122-90**

Halteschraube  
 Spare Screw  
 Tornillo de repuesto  
 Vis de rechange  
 Vite di ricambio



**V12-122-99**

Spannschlüssel  
 Key  
 Llave  
 Clé  
 Chiave



1/2

**V 12-122-00**  
 18,5 cm / 7 3/8"



5 mm  
**V 12-122-55**  
 8 cm / 3 1/8"



10 mm  
**V 12-122-60**  
 8 cm / 3 1/8"



16 mm  
**V 12-122-66**  
 8 cm / 3 1/8"

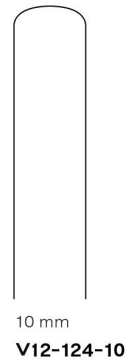
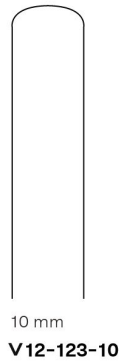
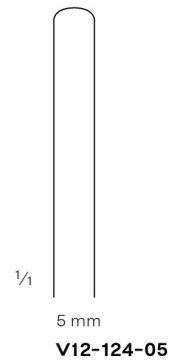
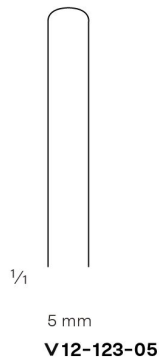


25 mm  
**V 12-122-85**  
 8 cm / 3 1/8"



**Spongiosa Gouges**  
 Spongiosaentnahmemeißel  
 Cinceles de esponjosa  
 Ciseaux-burinix pour spongiosa  
 Scalpelli per spongiosa

Sic



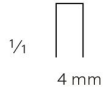
**Lexer**  
**V12-123-05**  
**V12-123-15**  
 24,5 cm / 9 5/8"

**Lexer**  
**V12-124-05**  
**V12-124-15**  
 24,5 cm / 9 5/8"

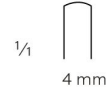


**Osteotomes, Gouges**  
 Osteotome, Hohlmeißel  
 Osteótomos, Gubias  
 Osteótomes, Gouges  
 Osteotomi, Sgorbie

Sic



**V 12-125-04**



**V 12-126-04**



**V 12-125-06**



**V 12-126-06**



**V 12-125-08**



**V 12-126-08**



**V 12-122-10**



**V 12-126-10**



**V 12-125-12**



**V 12-126-12**



**Lexer-Mini**  
**V 12-125-04**  
**V 12-125-12**  
 18 cm / 7 1/8"

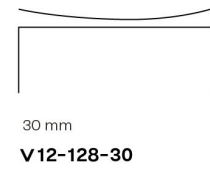
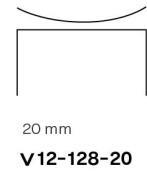
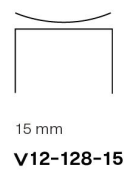
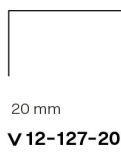
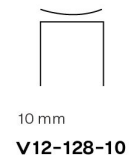
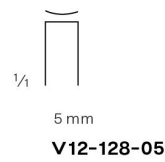
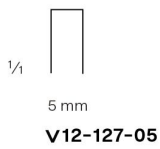
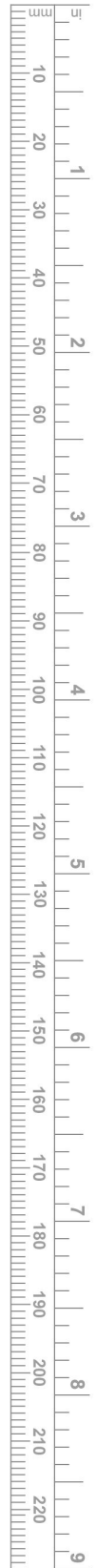


**Lexer-Mini**  
**V 12-126-04**  
**V 12-126-12**  
 18 cm / 7 1/8"



**Osteotomes, Gouges**  
 Osteotome, Hohlmeißel  
 Osteótomos, Gubias  
 Ostéotomes, Gouges  
 Osteotomi, Sgorbie

Sic



**Lexer**  
**V12-127-05**  
**V12-127-30**  
 22 cm / 8 5/8"

**Lexer**  
**V12-128-05**  
**V12-128-30**  
 22 cm / 8 5/8"

**Osteotomes**  
 Osteotome  
 Osteótomos  
 Ostéotomes  
 Osteotomi



2 mm

**V12-129-02**



3 mm

**V12-129-03**



3 mm

**V12-130-03**



4 mm

**V12-130-04**



4 mm

**V12-129-04**



6 mm

**V12-129-06**



6 mm

**V12-130-06**



8 mm

**V12-130-08**



8 mm

**V12-129-08**



10 mm

**V12-129-10**



10 mm

**V12-130-10**



12 mm

**V12-130-12**



12 mm

**V12-129-12**



15 mm

**V12-129-15**



15 mm

**V12-130-15**



1/2

**Lambotte-Mini**

**V12-129-02**

**V12-129-15**

12,5 cm / 4 7/8"



1/2

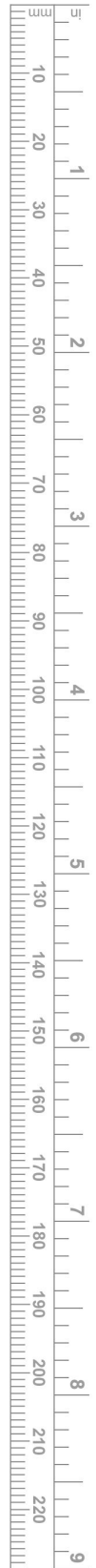
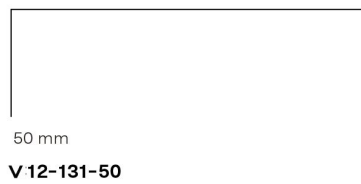
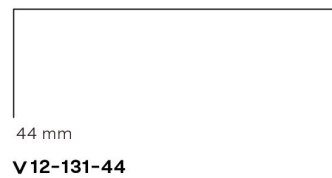
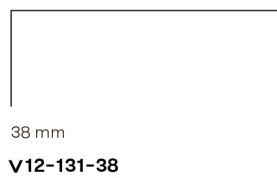
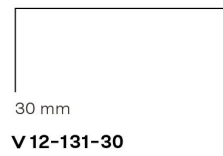
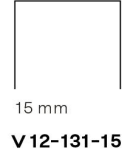
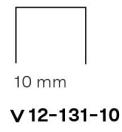
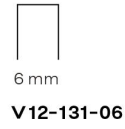
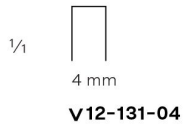
**Lambotte-Mini**

**V12-130-03**

**V12-130-15**

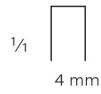
17 cm / 6 5/8"

**Osteotomes**  
 Osteotome  
 Osteótomos  
 Ostéotomes  
 Osteotomi



**Lambotte**  
**V12-131-04**  
**V12-131-50**  
 24 cm / 9 5/8"

**Osteotomes**  
 Osteotome  
 Osteótomos  
 Ostéotomes  
 Osteotomi



4 mm

**V 12-132-04**



6 mm

**V 12-132-06**



8 mm

**V 12-132-08**



10 mm

**V 12-132-10**



13 mm

**V 12-132-13**



15 mm

**V 12-132-15**



18 mm

**V 12-132-18**



20 mm

**V 12-132-20**



25 mm

**V 12-132-25**



30 mm

**V 12-132-30**



38 mm

**V 12-132-38**



44 mm

**V 12-132-44**



50 mm

**V 12-132-50**

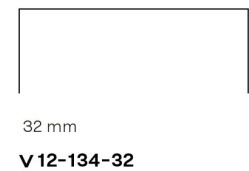
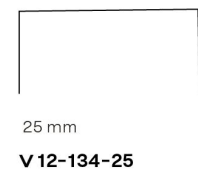
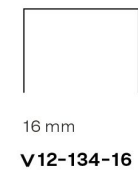
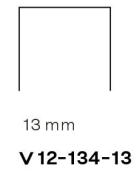
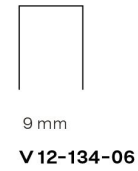
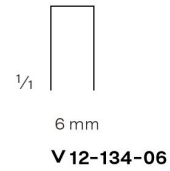
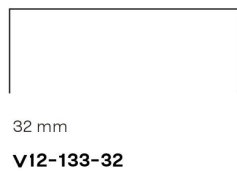
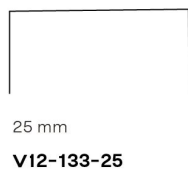
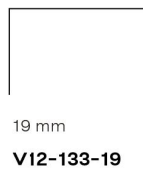
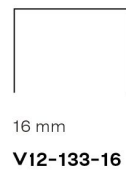
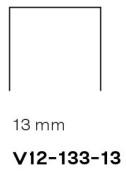
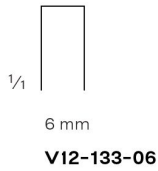


1/2

**Lambotte**  
**V 12-132-04**  
**V 12-132-50**  
 24 cm / 9 1/8"



**Osteotomes**  
 Osteotome  
 Osteótomos  
 Ostéotomes  
 Osteotomi



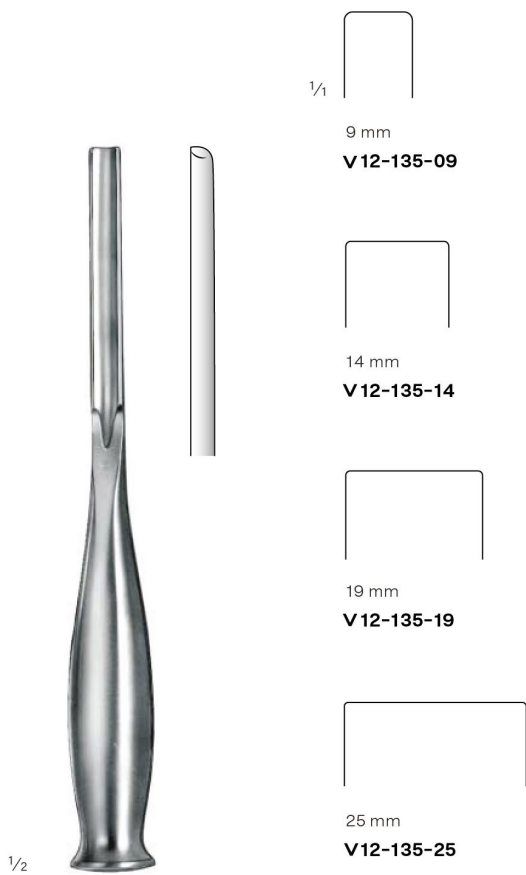
**Smith-Petersen**  
**V 12-133-06**  
**V 12-133-32**  
 20,5 cm / 8 1/8"



**Smith-Petersen**  
**V12-134-06**  
**V12-134-32**  
 20,5 cm / 8 1/8"



**Gouges**  
Hohlmeißel  
Gubias  
Gouges  
Sgorbie



**Smith-Petersen**  
**V12-135-09**  
**V12-135-25**  
20,5 cm / 8 1/8"



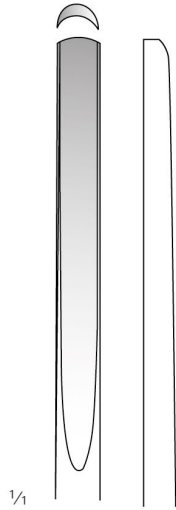
**Smith-Petersen**  
**V12-136-09**  
**V12-136-25**  
20,5 cm / 8 1/8"

**Gouges**  
 Hohlmeißel  
 Gubias  
 Gouges  
 Sgorbie

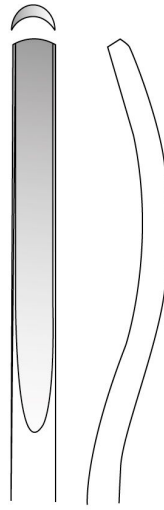
Sic



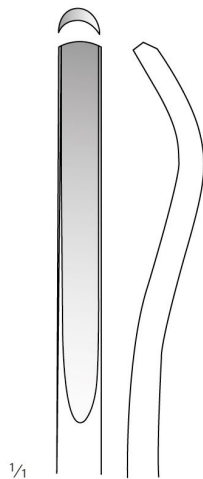
**Cobb**  
**V12-137-06**  
**V12-140-06**  
 28 cm / 11"



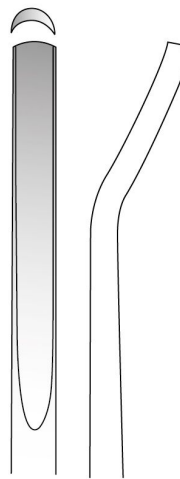
6 mm  
**V12-137-06**



6 mm  
**V12-138-06**



6 mm  
**V12-139-06**



6 mm  
**V12-140-06**



**Osteotomes, Chisels**  
 Osteotome, Flachmeißel  
 Osteótomos, Cinceles  
 Ostéotomes, Ciseaux-burins  
 Osteotomi, Scalpelli



3 mm  
**V12-141-03**



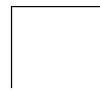
6 mm  
**V12-142-06**



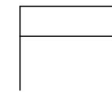
6 mm  
**V12-143-06**



5 mm  
**V12-141-05**



13 mm  
**V12-142-13**



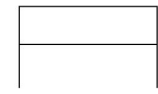
13 mm  
**V12-143-13**



6 mm  
**V12-141-06**



19 mm  
**V12-142-19**



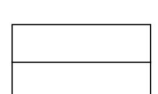
19 mm  
**V12-143-19**



8 mm  
**V12-141-08**



25 mm  
**V12-142-25**



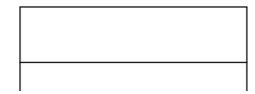
25 mm  
**V12-143-25**



9 mm  
**V12-141-09**



32 mm  
**V12-142-32**



32 mm  
**V12-143-32**



**Hoke**  
**V12-141-03**  
**V12-141-09**  
 17 cm / 6 5/8"

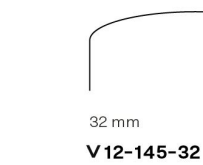
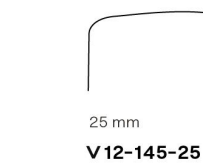
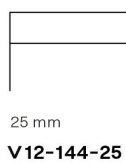
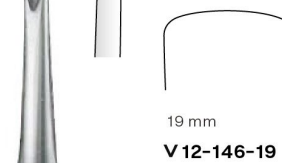
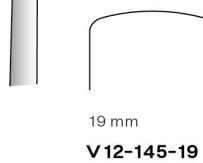
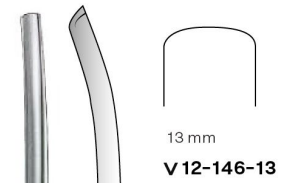
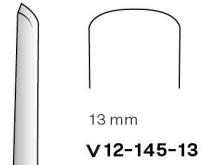
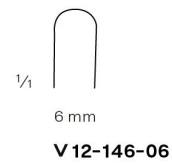
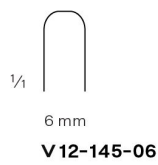
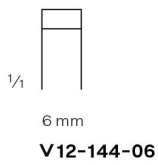


**Hibbs**  
**V12-142-06**  
**V12-142-32**  
 24,5 cm / 9 5/8"



**Hibbs**  
**V12-143-06**  
**V12-143-32**  
 24,5 cm / 9 5/8"

**Osteotomes, Gouges**  
 Osteotome, Hohlmeißel  
 Osteótomos, Gubias  
 Ostéotomes, Gouges  
 Osteotomi, Sgorbie



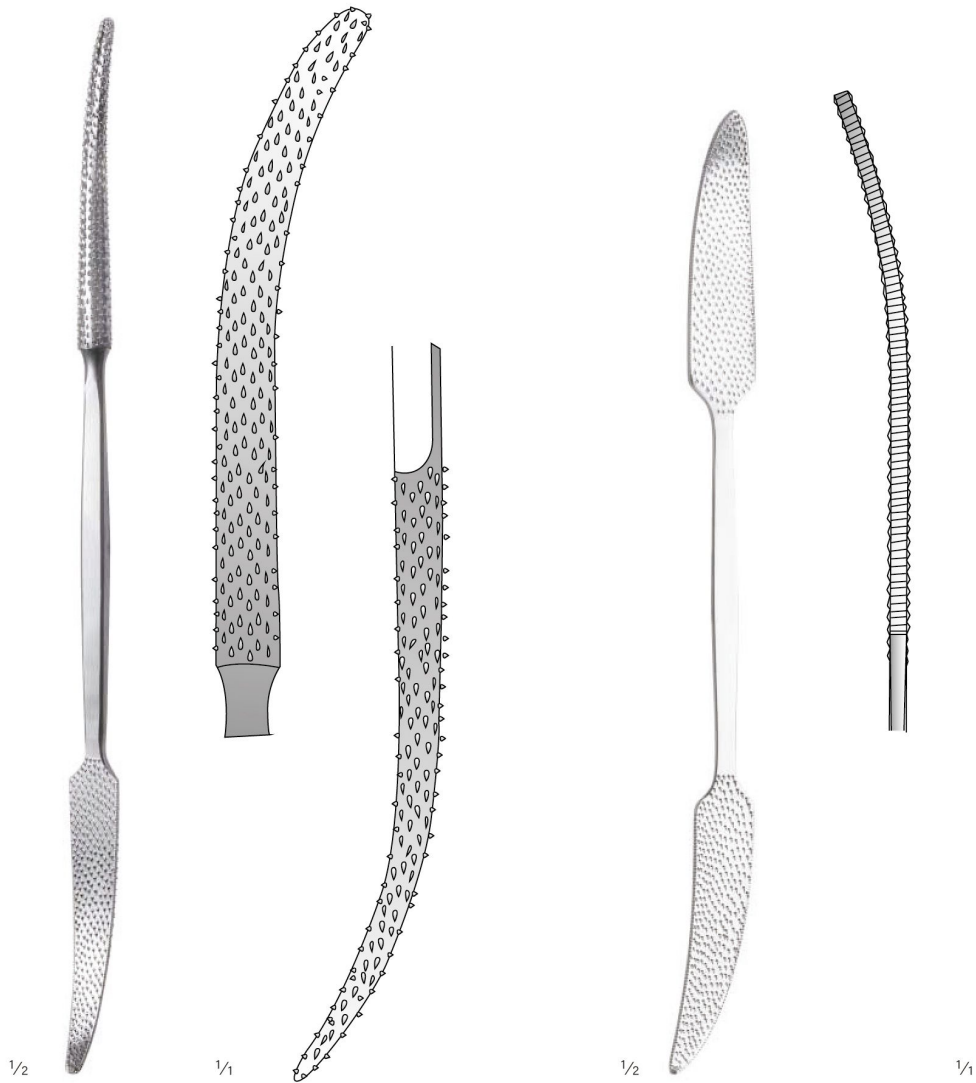
**Hibbs**  
**V 12-144-06**  
**V 12-144-32**  
 24,5 cm / 9 5/8"

**Hibbs**  
**V 12-145-06**  
**V 12-145-32**  
 24,5 cm / 9 5/8"

**Hibbs**  
**V 12-146-06**  
**V 12-146-32**  
 24,5 cm / 9 5/8"

## Bone Rasps

Knochenraspeln  
Escofinas para hueso  
Râpes pour os  
Raspe per ossa



### Putti

#### V12-147-30

30 cm / 11 <sup>5</sup>/<sub>8</sub>"  
rund/halbrund  
round / semi round  
redonda / semi-redonda  
ronde / semi-ronde  
rotondo / semi-rotondo

### Putti

#### V12-148-27

27 cm / 10 <sup>5</sup>/<sub>8</sub>"  
gebogen/gerade  
curved / straight  
curva / recta  
courbée / droite  
curvo / diritto




**Tamper**  
 Stößel  
 Punzón  
 Pilon  
 Pestone




1/1   
 Ø 3 mm  
**V12-149-03**

1/1   
 Ø 2 mm  
**V12-150-02**

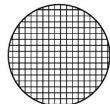
  
 Ø 3 mm  
**V12-150-03**

1/1   
 Ø 12 mm  
**V12-151-12**

  
 Ø 5 mm  
**V12-149-50**

  
 Ø 4 mm  
**V12-150-04**

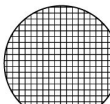
  
 Ø 5 mm  
**V12-150-05**


  
 Ø 14 mm  
**V12-151-14**

  
 Ø 8 mm  
**V12-149-08**

  
 Ø 6 mm  
**V12-150-06**

  
 Ø 8 mm  
**V12-150-08**

  
 Ø 16 mm  
**V12-151-16**

  
 Ø 10 mm  
**V12-150-10**



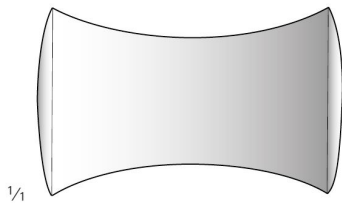
**Caspar**  
**V12-149-03**  
**V12-149-08**  
 22 cm / 8 5/8"

**V12-150-02**  
**V12-150-10**  
 15,5 cm / 6 1/8"

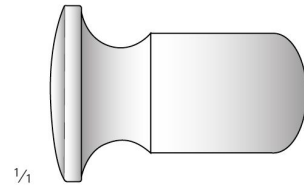
**V12-151-12**  
**V12-151-16**  
 20 cm / 8"

Sic

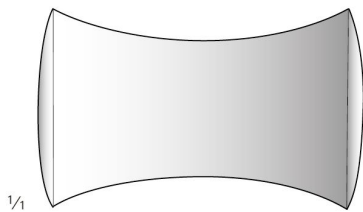
Sic



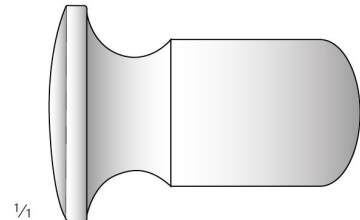
**V 12-152-24**  
 24 cm / 9 4/8"  
 Gewicht Kopf  
 weight head  
 peso cabeza  
 poids tête  
 peso testa  
 275 g Ø 26 mm



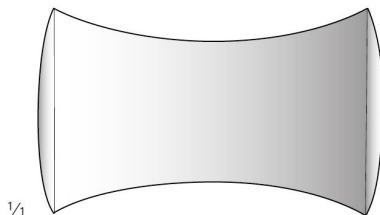
**V 12-155-20**  
 20,5 cm / 8 1/8"  
 Gewicht Kopf  
 weight head  
 peso cabeza  
 poids tête  
 peso testa  
 120 g Ø 25 mm



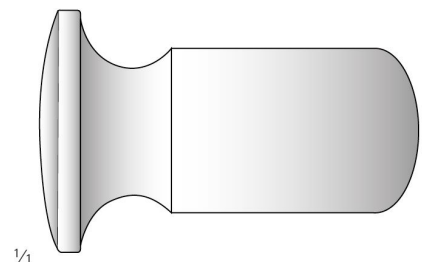
**V 12-153-24**  
 24 cm / 9 4/8"  
 Gewicht Kopf  
 weight head  
 peso cabeza  
 poids tête  
 peso testa  
 320 g Ø 28 mm



**V 12-156-21**  
 21 cm / 8 2/8"  
 Gewicht Kopf  
 weight head  
 peso cabeza  
 poids tête  
 peso testa  
 170 g Ø 30 mm



**V 12-154-24**  
 24 cm / 9 4/8"  
 Gewicht Kopf  
 weight head  
 peso cabeza  
 poids tête  
 peso testa  
 340 g Ø 30 mm



**V 12-157-21**  
 21,5 cm / 8 4/8"  
 Gewicht Kopf  
 weight head  
 peso cabeza  
 poids tête  
 peso testa  
 260 g Ø 35 mm

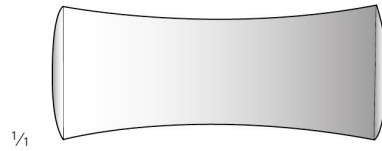
**Williger**  
**V 12-152-24**  
**V 12-154-24**

**Doyen**  
**V 12-155-20**  
**V 12-157-21**



**Mallets**  
 Hämmer  
 Martillos  
 Maillets  
 Martelli

Gewicht	Kopf
weight	head
peso	cabeza
poids	tête
peso	testa
220 g	Ø 30 mm



1/4

**V12-159-19**

Kopf	Gewicht
head	weight
cabeza	peso
tête	poids
testa	peso
Ø 19 mm	230 g

Kopf	Gewicht
head	weight
cabeza	peso
tête	poids
testa	peso
Ø 30 mm	300 g



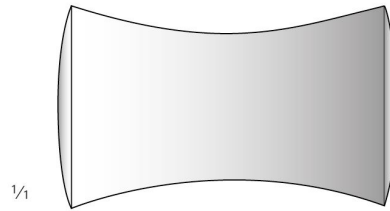
1/2

**Collin**  
**V12-158-20**  
 20 cm / 7 7/8"



1/2

**Lucae**  
**V12-159-19**  
**V12-160-19**  
 19,5 cm / 7 5/8"



1/4

**V12-160-19**

Kopf	Gewicht
head	weight
cabeza	peso
tête	poids
testa	peso
Ø 25 mm	260 g



1/2

**Cottle**  
**V12-161-19**  
 19 cm / 7 4/8"  
 plan/konvex  
 plane / convex  
 plano / convexo  
 plan / convexe  
 plano / convesso







1/2

**Williger**

**V12-162-16**

16,5 cm / 6 1/8"

Kopf	Gewicht
head	weight
cabeza	peso
tête	poids
testa	peso
Ø 20 mm	140 g



1/2

**V12-163-26**

26 cm / 10 2/8"



Kopf	Gewicht
head	weight
cabeza	peso
tête	poids
testa	peso
Ø 30 mm	450 g



1/2

**Mead**

**V12-164-19**

19 cm / 7 1/8"

mit austauschbaren Kunststoffbacken  
 with interchangeable plastic disks  
 con tapas intercambiables  
 avec plaques interchangeables  
 con placche intercambiabili

Kopf	Gewicht
head	weight
cabeza	peso
tête	poids
testa	peso
Ø 27 mm	330 g



1/4

**V12-165-00**

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



**V12-164-19**



**Mallets**  
 Hämmer  
 Martillos  
 Maillets  
 Martelli

**V12-168-91-98**

Ersatzbacke  
 Spare facing  
 Tapa de repuesto  
 Placque de rechange  
 Placche di ricambio

➔ **V12-167-26**



1/2

**Partsch**

**V12-166-19**

19 cm / 7 4/8"

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

Kopf	Gewicht
head	weight
cabeza	peso
tête	poids
testa	peso
Ø 27 mm	175 g



1/2

**V12-167-26**

26,5 cm / 10 3/8"

plan (Kunststoff), konvex (Stahl),  
 plane (nylon), convex (steel),  
 plano (nilón), convexo (acero),  
 plan (nylon), convexe (acier),  
 plano (nilon), convesso (acciaio),



Kopf	Gewicht
head	weight
cabeza	peso
tête	poids
testa	peso
Ø 32 mm	620 g



**Mallets**  
 Hämmer  
 Martillos  
 Maillets  
 Martelli

**C12-172-00**

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



→ **V12-171-24**



1/2

**V12-169-26**

26 cm / 10 2/8"



Kopf	Gewicht
head	weight
cabeza	peso
tête	poids
testa	peso
Ø 32 mm	610 g



1/2

**V12-170-24**

24 cm / 9 4/8"



Kopf	Gewicht
head	weight
cabeza	peso
tête	poids
testa	peso
Ø 30 mm	460 g



1/2

**V12-171-24**

24 cm / 9 4/8"



Kopf	Gewicht
head	weight
cabeza	peso
tête	poids
testa	peso
Ø 37 mm	345 g



**Mallets**  
 Hämmer  
 Martillos  
 Maillets  
 Martelli



1/2

**V12-173-26**  
 26,5 cm / 10 3/8"



Kopf	Gewicht
head	weight
cabeza	peso
tête	poids
testa	peso
Ø 30 mm	580 g



1/2

**V12-174-26**  
 26,5 cm / 10 3/8"



Kopf	Gewicht
head	weight
cabeza	peso
tête	poids
testa	peso
Ø 50 mm	1300 g



**Bone Curettes**

Scharfe Löffel  
Cucharillas cortantes  
Curettes tranchantes  
Curette taglianti

Sic

1/4



2,5 mm  
Fig. 0000  
**V12-175-04**



3,0 mm  
Fig. 000  
**V12-175-30**

1/4



4,5 mm  
Fig. 0  
**V12-176-10**



5,5 mm  
Fig. 1  
**V12-176-01**



3,5 mm  
Fig. 00  
**V12-175-20**



4,5 mm  
Fig. 0  
**V12-175-10**



6,0 mm  
Fig. 2  
**V12-176-02**



7 mm  
Fig. 3  
**V12-176-03**



5,5 mm  
Fig. 1  
**V12-175-01**



6,0 mm  
Fig. 2  
**V12-175-02**



8,5 mm  
Fig. 4  
**V12-176-04**



7,0 mm  
Fig. 3  
**V12-175-03**



8,5 mm  
Fig. 4  
**V12-175-04**

9,5 mm  
Fig. 5  
**V12-175-05**

11,5 mm  
Fig. 6  
**V12-175-06**

1/2



**Volkman**  
**V12-175-01**  
**V12-175-40**  
17 cm / 6 5/8"  
oval  
oval  
ovalada  
ovale  
ovalada

1/2



**Volkman**  
**V12-176-01**  
**V12-176-10**  
27 cm / 10 5/8"  
oval  
oval  
ovalada  
ovale  
ovalada



**Bone Curettes**

Scharfe Löffel  
Cucharillas cortantes  
Curettes tranchantes  
Curette taglienti



3,5 mm  
Fig. 000  
**V12-177-30**



4 mm  
Fig. 00  
**V12-177-20**



3,0 mm  
Fig. 0000  
**V12-178-40**



3,7 mm  
Fig. 000  
**V12-178-30**



2,8 mm  
Fig. 0000  
**V12-179-40**



5 mm  
Fig. 0  
**V12-177-10**



5,5 mm  
Fig. 1  
**V12-177-01**



4,5 mm  
Fig. 00  
**V12-178-20**



5,2 mm  
Fig. 0  
**V12-178-10**



3,6 mm  
Fig. 000  
**V12-179-30**



6,5 mm  
Fig. 2  
**V12-177-02**



7,5 mm  
Fig. 3  
**V12-177-03**



6,8 mm  
Fig. 1  
**V12-178-01**



8,5 mm  
Fig. 2  
**V12-178-02**



4,4 mm  
Fig. 00  
**V12-179-20**



9,0 mm  
Fig. 4  
**V12-177-04**



10,0 mm  
Fig. 3  
**V12-178-03**



11,5 mm  
Fig. 4  
**V12-178-04**



5,2 mm  
Fig. 0  
**V12-179-10**



13,0 mm  
Fig. 5  
**V12-178-05**



14,5 mm  
Fig. 6  
**V12-178-06**



1/2

**Schede**  
**V12-177-10**  
**V12-177-04**

17 cm / 6 5/8"  
oval, mit Hohlheft  
oval, with hollow handle  
ovalada, con mango hueco  
ovale, avec manche creux  
ovalada, con manico vuoto



1/2

**Volkmann**  
**V12-178-10**  
**V12-178-06**

17 cm / 6 5/8"  
oval, mit Hohlheft  
oval, with hollow handle  
ovalada, con mango hueco  
ovale, avec manche creux  
ovalada, con manico vuoto



1/2

**Daubenspeck**  
**V12-179-10**  
**V12-179-40**

17 cm / 6 5/8"  
oval, mit Hohlheft  
oval, with hollow handle  
ovalada, con mango hueco  
ovale, avec manche creux  
ovalada, con manico vuoto

## Bone Curettes

Scharfe Löffel  
Cucharillas cortantes  
Curettes tranchantes  
Curette taglienti

$\frac{1}{1}$    
Ø 2,0 mm  
Fig. 0000  
**V12-180-40**


  
Ø 3,0 mm  
Fig. 000  
**V12-180-30**


$\frac{1}{1}$    
2,5 mm  
Fig. 0000  
**V12-181-40**

  
3,0 mm  
Fig. 000  
**V12-181-30**

  
Ø 4,0 mm  
Fig. 00  
**V12-180-20**

  
Ø 5,0 mm  
Fig. 0  
**V12-180-10**

  
4,0 mm  
Fig. 00  
**V12-181-20**

  
4,5 mm  
Fig. 0  
**V12-181-10**

  
Ø 6,0 mm  
Fig. 1  
**V12-180-01**


  
Ø 8,0 mm  
Fig. 2  
**V12-180-02**

  
5,0 mm  
Fig. 1  
**V12-181-01**

  
6,0 mm  
Fig. 2  
**V12-181-02**

  
Ø 10,0 mm  
Fig. 3  
**V12-180-03**

  
Ø 12,0 mm  
Fig. 4  
**V12-180-04**

  
7,0 mm  
Fig. 3  
**V12-181-03**

  
8,0 mm  
Fig. 4  
**V12-181-04**

$\frac{1}{2}$    
Ø 13,0 mm  
Fig. 5  
**V12-180-05**

  
Ø 14,0 mm  
Fig. 6  
**V12-180-06**

$\frac{1}{2}$    
9,5 mm  
Fig. 5  
**V12-181-05**

### Bruns

**V12-180-10**  
**V12-180-06**

17 cm / 6  $\frac{5}{8}$ "  
rund, mit Hohlheft  
round, with hollow handle  
redonda, con mango hueco  
rond, avec manche creux  
rotonda, con manico vuoto

### Spratt

**V12-181-10**  
**V12-181-05**


17 cm / 6  $\frac{5}{8}$ "  
oval, mit Hohlheft  
oval, with hollow handle  
ovalada, con mango hueco  
ovale, avec manche creux  
ovalada, con manico vuoto

### Bone Curettes

Scharfe Löffel  
Cucharillas cortantes  
Curettes tranchantes  
Curette taglianti

1/1   
3,5 mm  
Fig. 000  
**V12-182-03**

  
4,0 mm  
Fig. 00  
**V12-182-20**

1/1   
4,8 mm  
**V12-183-25**


1/1   
2,5 mm  
Fig. 1  
**V12-186-01**


  
4,5 mm  
Fig. 0  
**V12-182-10**


  
5,5 mm  
Fig. 1  
**V12-182-10**

  
4,8 mm  
**V12-184-25**

  
3,0 mm  
Fig. 2  
**V12-186-02**

  
6,0 mm  
Fig. 2  
**V12-182-02**


  
7,5 mm  
Fig. 3  
**V12-182-03**

  
4,8 mm  
**V12-185-25**

  
3,5 mm  
Fig. 3  
**V12-186-03**

  
8,5 mm  
Fig. 4  
**V12-182-04**


  
10,0 mm  
Fig. 5  
**V12-182-05**

  
4,8 mm  
**V12-185-25**

  
4,0 mm  
Fig. 4  
**V12-186-04**

  
11,5 mm  
Fig. 6  
**V12-182-06**

  
10,0 mm  
Fig. 5  
**V12-182-05**

  
4,8 mm  
**V12-185-25**

  
4,5 mm  
Fig. 5  
**V12-186-05**

1/2   
**Bruns**  
**V12-182-10**  
**V12-182-06**

23 cm / 9"  
oval, massiv  
oval, solid  
ovalada, maciza  
ovale, solide  
ovala, solida

1/2   
**Scoville**  
**V12-183-25**  
**V12-185-25**

25 cm / 9 7/8"  
oval, mit Hohlheft  
oval, with hollow handle  
ovalada, con mango hueco  
ovale, avec manche creux  
ovala, con manico vuoto

1/2   
**Simon**  
**V12-186-01**  
**V12-186-06**

22,5 cm / 8 7/8"  
oval, mit Hohlheft  
oval, with hollow handle  
ovalada, con mango hueco  
ovale, avec manche creux  
ovala, con manico vuoto

  
5,5 mm  
Fig. 6  
**V12-186-06**





**Bone Curettes**

Scharfe Löffel  
Cucharillas cortantes  
Curettes tranchantes  
Curette taglienti



3,5 mm  
Fig. 000

**V12-187-30**



2,3 mm  
Fig. 1

**V12-188-01**



Fig. 1

**V12-189-01**



4,5 mm  
Fig. 00

**V12-187-20**



2,6 mm  
Fig. 2

**V12-188-02**



2,6 mm  
Fig. 2

**V12-189-02**



5,0 mm  
Fig. 0

**V12-187-10**



3,0 mm  
Fig. 3

**V12-188-03**



3,0 mm  
Fig. 3

**V12-189-03**



6,0 mm  
Fig. 1

**V12-187-01**



3,5 mm  
Fig. 4

**V12-188-04**



3,5 mm  
Fig. 4

**V12-189-04**



4,5 mm  
Fig. 5

**V12-188-05**



4,5 mm  
Fig. 5

**V12-189-05**



5,0 mm  
Fig. 6

**V12-188-06**



5,0 mm  
Fig. 6

**V12-189-06**



1/2

**V12-187-01**

**V12-187-30**

25 cm / 9 7/8"

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



1/2

**Modell USA**

**V12-188-01**

**V12-188-06**

16,5 cm / 6 4/8"

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



1/2

**Modell USA**

**V12-189-01**

**V12-189-06**

16 cm / 6 2/8"


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

## Bone Curettes

Scharfe Löffel  
Cucharillas cortantes  
Curettes tranchantes  
Curette taglienti

$\frac{1}{4}$    
2,3 mm  
Fig. 1  
**V12-190-01**

$\frac{1}{4}$    
3,0 mm  
Fig. 1  
**V12-191-03**

$\frac{1}{4}$    
4,8 mm  
Fig. 1  
**V12-192-01**


  
2,6 mm  
Fig. 2  
**V12-190-02**

  
4,0 mm  
Fig. 2  
**V12-191-04**

  
5,8 mm  
Fig. 2  
**V12-192-02**

  
3,0 mm  
Fig. 3  
**V12-190-03**

  
5,0 mm  
Fig. 3  
**V12-191-05**

  
6,8 mm  
Fig. 3  
**V12-192-03**

  
3,5 mm  
Fig. 4  
**V12-190-04**

  
4,5 mm  
Fig. 5  
**V12-190-05**

  
5,0 mm  
Fig. 6  
**V12-190-06**



### Modell USA

**V12-190-01**

**V12-190-06**

16,5 cm / 6  $\frac{4}{8}$ "

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

### Bushe

**V12-191-03**

**V12-191-05**

25 cm / 9  $\frac{7}{8}$ "

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

### Halle

**V12-192-01**

**V12-192-03**

21 cm / 8  $\frac{2}{8}$ "

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



**Bone Curettes**

Scharfe Löffel  
Cucharillas cortantes  
Curettes tranchantes  
Curette taglienti



3,2 mm

4,2 mm

1/1

1/2

**Jacobson**  
**V 12-193-14**

14 cm / 5 4/8"



6,1 mm



6,2 mm



6,2 mm

**V12-194-12**  
12,5 cm / 4 7/8"

**V12-194-14**  
14,5 cm / 5 6/8"

**V12-194-17**  
17 cm / 6 6/8"

7,2 mm

6,8 mm

7,5 mm



1/1



1/2

**Volkman**  
**V12-194-12**

**V12-194-17**



Ø 6,5 mm



Ø 9,0 mm



Ø 11,0 mm

**V12-195-13**  
13 cm / 5 1/8"

**V12-195-16**  
16 cm / 6 2/8"

**V12-195-20**  
20 cm / 7 7/8"

6,0 mm

7,0 mm

9,0 mm



1/1



1/2

**Volkman**  
**V 12-195-13**

**V 12-195-20**



Ø 6,5 mm

6,0 mm



1/2

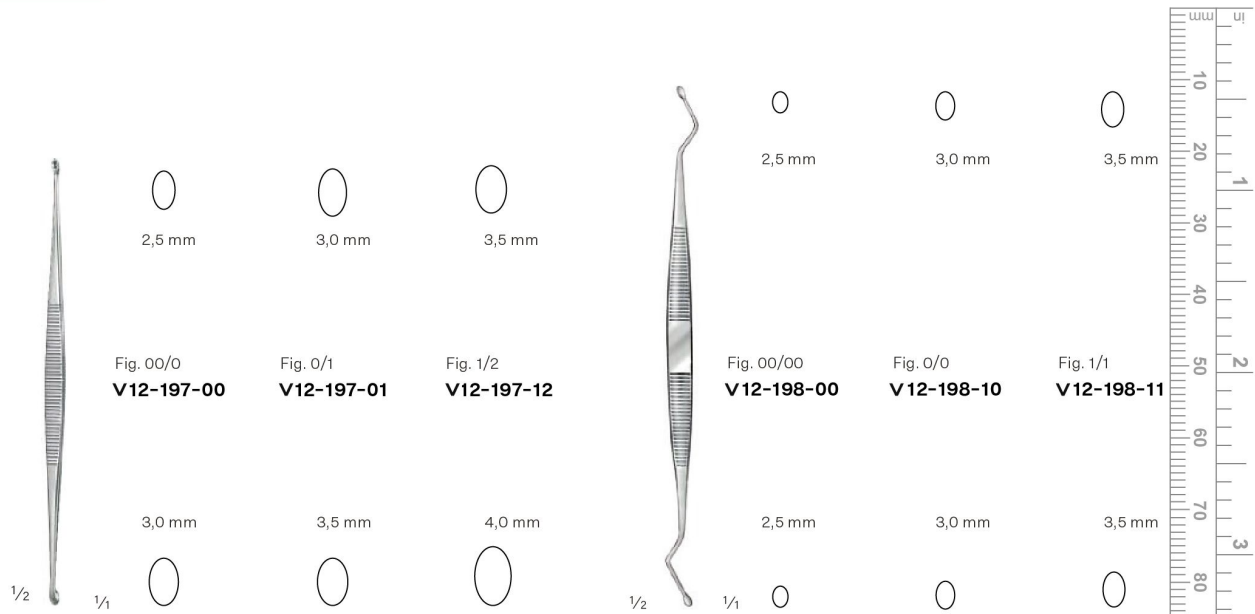
1/1

**V12-196-21**

21 cm / 8 3/8"

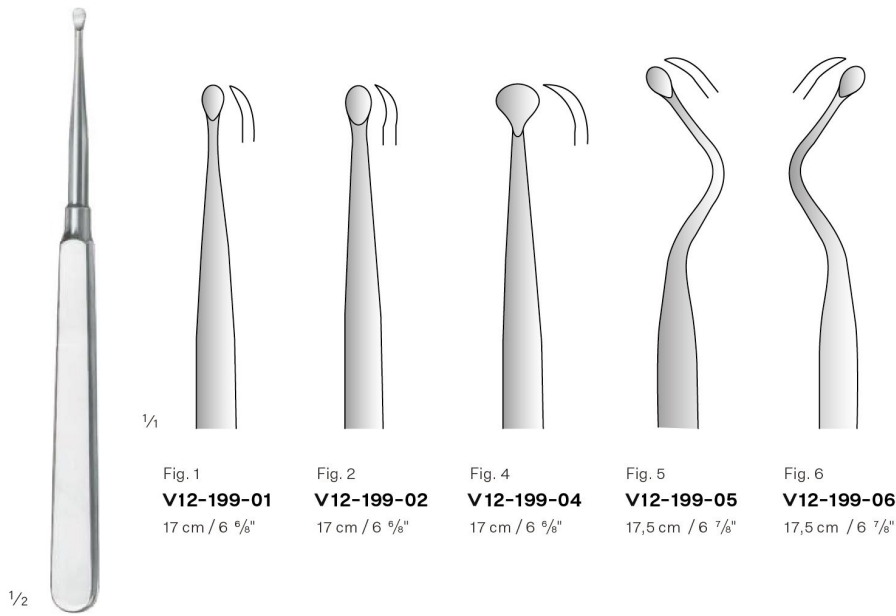


**Bone Curettes, double-ended, Bone Curettes**  
 Scharfe Doppellöffel, Scharfe Küretten  
 Cucharillas de doble extremo, Curetas cortante  
 Curettes doubles, Curettes  
 Curette doppia, Curette



**Williger**  
**V12-197-00**  
**V12-197-12**  
 14 cm / 5 4/8"  
 oval  
 oval  
 ovalada  
 ovale  
 ovale

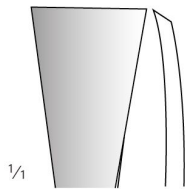
**Williger**  
**V12-198-00**  
**V12-198-11**  
 16,5 cm / 6 4/8"  
 oval  
 oval  
 ovalada  
 ovale  
 ovale



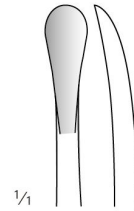
**Molt**  
**V12-199-01**  
**V12-199-06**

**Molt**  
**V12-200-19**  
 19 cm / 7 4/8"

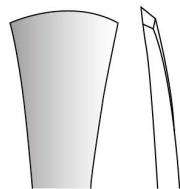
**Periosteal Elevators**  
 Raspatorien  
 Periostótomos  
 Rugines-raspatoires  
 Periostotomi



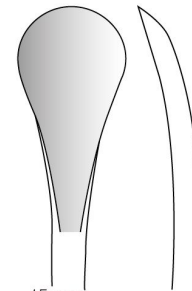
16 mm  
**V12-201-01**  
 19 cm / 7 4/8"



7 mm  
**V12-202-16**  
 16 cm / 6 2/8"



16 mm  
**V12-201-02**  
 20 cm / 7 7/8"



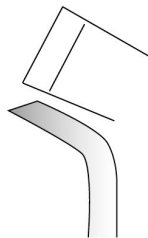
15 mm  
**V12-202-18**  
 18,5 cm / 7 2/8"



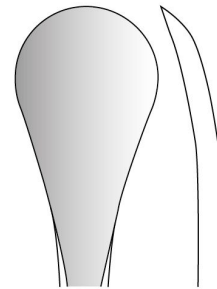
1/2

**Martin-Langenbeck**  
**V 12-201-01**  
**V 12-201-04**

massiv  
 solid  
 macizo  
 solide  
 pieno



12 mm  
**V12-201-03**  
 19 cm / 7 4/8"



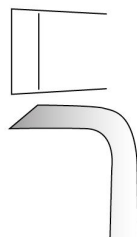
20 mm  
**V12-202-19**  
 19 cm / 7 4/8"



1/2

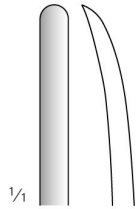
**Martin-Hoen**  
**V 12-202-16**  
**V 12-202-19**

massiv  
 solid  
 macizo  
 solide  
 pieno

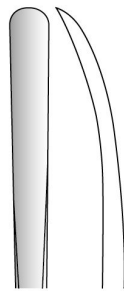


12 mm  
**V12-201-04**  
 18 cm / 7 1/8"

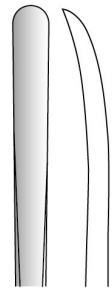
**Periosteal Elevators**  
 Raspatorien  
 Periostótomos  
 Rugines-raspatoires  
 Periostotomi



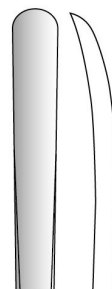
4 mm  
**V12-203-04**  
 17,5 cm / 7"



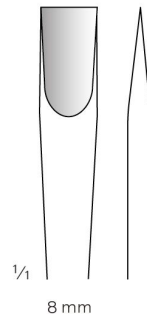
6 mm  
**V12-203-06**  
 17,5 cm / 7"



5 mm  
**V12-203-05**  
 19,5 cm / 7 5/8"



7 mm  
**V12-203-07**  
 19,5 cm / 7 5/8"



8 mm



1/2

**Martin-Cushing**  
**V12-203-04**  
**V12-203-07**  
 massiv  
 solid  
 macizo  
 solide  
 pieno

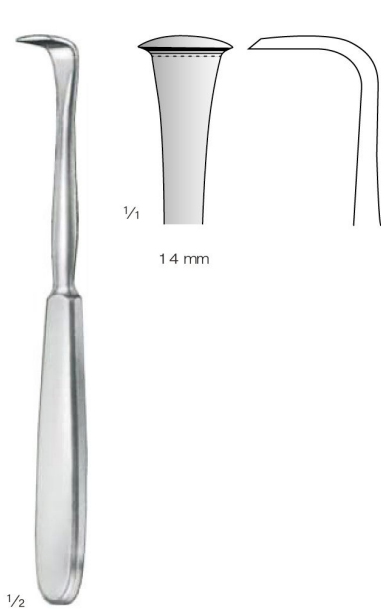


1/2

**Martin-Cushing**  
**V12-204-17**  
 17 cm / 6 5/8"  
 massiv  
 solid  
 macizo  
 solide  
 pieno



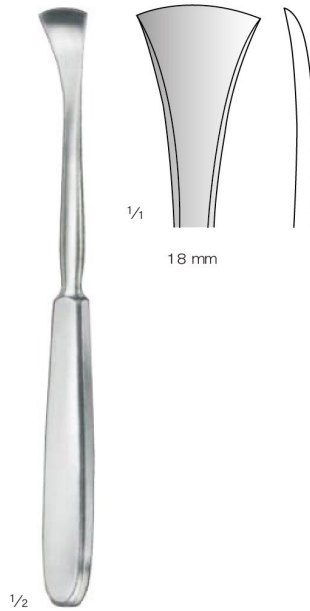
**Periosteal Elevators**  
 Raspatorien  
 Periostótomos  
 Rugines-raspatoires  
 Periostotomi



**Langenbeck**

**V12-205-18**

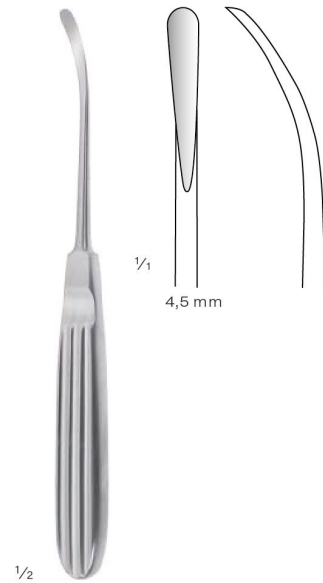
18 cm / 7 1/8"  
 mit Hohlheft  
 with hollow handle  
 con mango hueco  
 avec manche creux  
 con manico vuoto



**Langenbeck**

**V12-206-19**

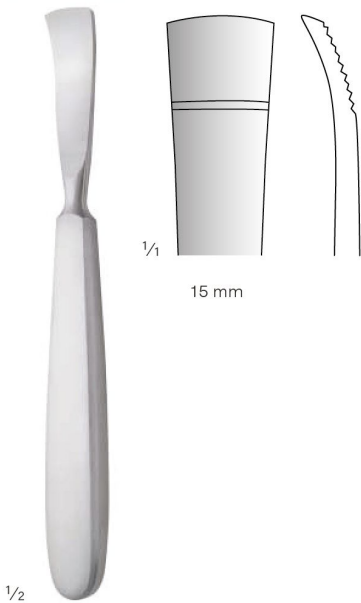
19 cm / 7 4/8"  
 mit Hohlheft  
 with hollow handle  
 con mango hueco  
 avec manche creux  
 con manico vuoto



**Landolt**

**V12-207-17**

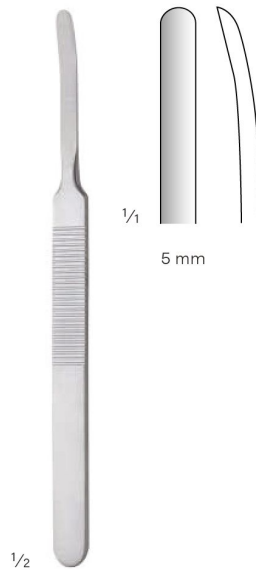
17,5 cm / 6 7/8"



**Jansen**

**V12-208-16**

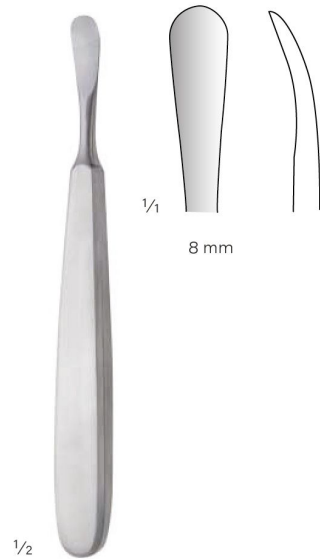
16,5 cm / 6 4/8"



**König**

**V12-209-15**

15,5 cm / 6 1/8"



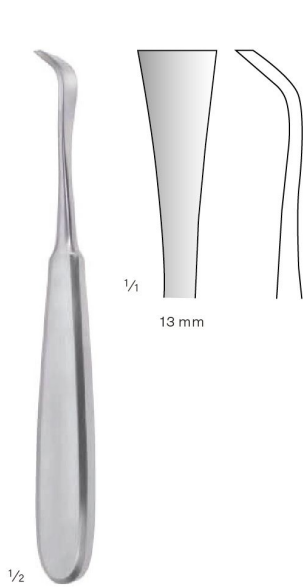
**Trelat**

**V12-210-15**

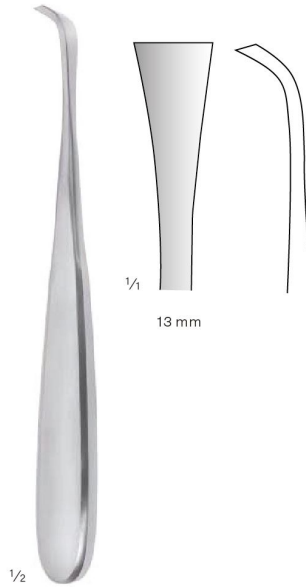
15 cm / 5 7/8"



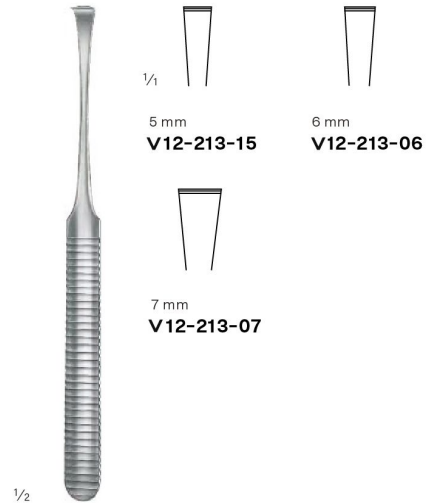
**Periosteal Elevators**  
 Raspatorien  
 Periostótomos  
 Rugines-raspatoires  
 Periostotomi



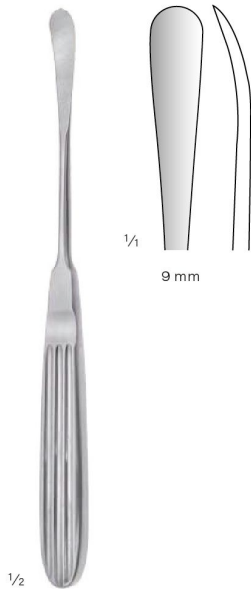
**Schneider**  
**V12-211-17**  
 17,5 cm / 6 7/8"



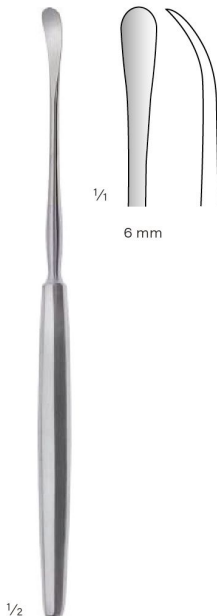
**Schneider-Sauerbruch**  
**V12-212-19**  
 19 cm / 7 4/8"



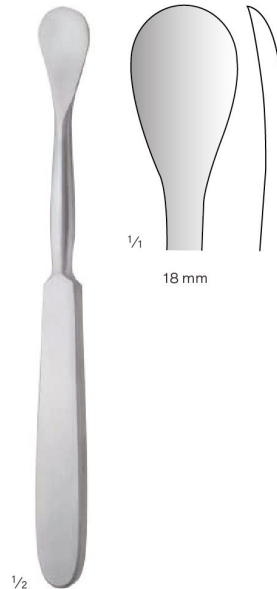
**V 12-213-05**  
**V12-213-07**  
 16 cm / 6 2/8"  
 fein, gewinkelt, massiv  
 delicate, angled, solid  
 fino, angulada, macizo  
 fin, coudée, solide  
 fino, angulata, solido



**Cottle**  
**V12-214-19**  
 19 cm / 7 4/8"



**Sewall**  
**V12-215-20**  
 20 cm / 7 7/8"



**Sedillot**  
**V12-216-18**  
 18,5 cm / 7 3/8"

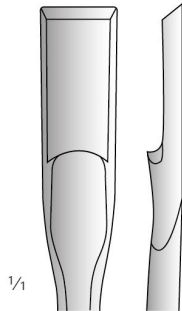




**Periosteal Elevators**  
 Raspatorien  
 Periostótomos  
 Rugines-raspatoires  
 Periostotomi

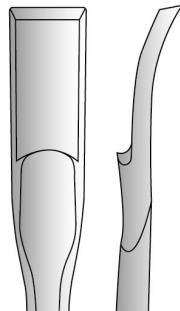


1/2



1/1

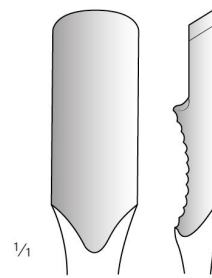
11 mm  
**V12-217-11**



11 mm  
**V12-218-11**

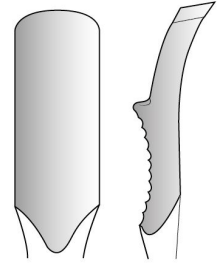


1/2



1/1

12,5 mm  
**V12-219-15**



12,5 mm  
**V12-220-15**

**Farabeuf-Collin**

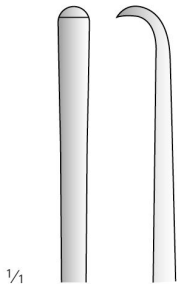
**V12-217-15**  
**V12-218-15**  
 15,5 cm / 6 1/8"

**Farabeuf**

**V12-219-15**  
**V12-220-15**  
 15,5 cm / 6 1/8"  
 mit Hohlheft  
 with hollow handle  
 con mango hueco  
 avec manche creux  
 con manico vuoto

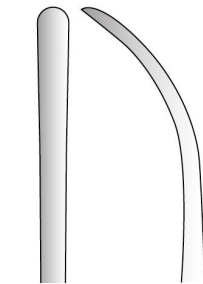


1/2

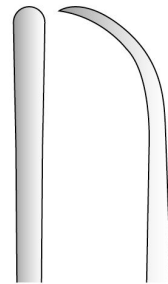


1/1

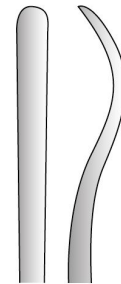
4 mm  
**V12-221-17**



4 mm  
**V12-222-17**



4 mm  
**V12-223-17**

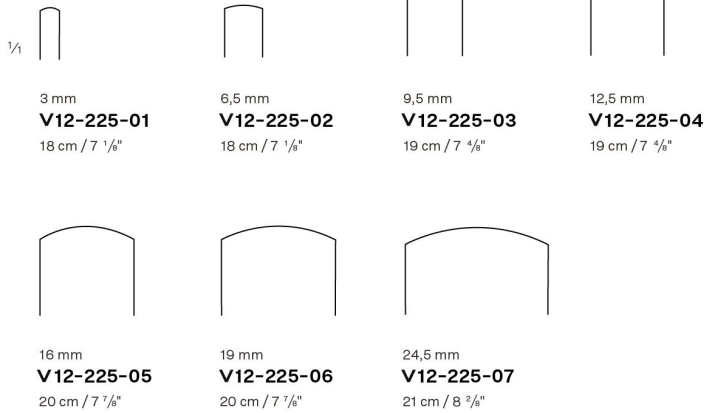


4 mm  
**V12-224-17**

**Mühling**

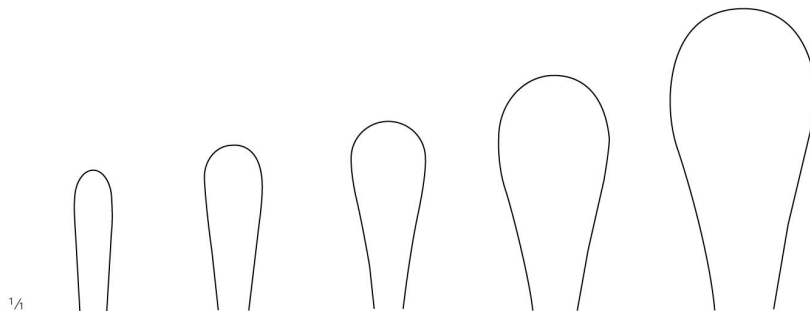
**V12-221-17**  
**V12-224-17**  
 17 cm / 6 5/8"

**Periosteal Elevators**  
 Raspatorien  
 Periostótomos  
 Rugines-raspatoires  
 Periostotomi



1/2

**Key**  
**V12-225-01**  
**V12-225-07**



	6 mm	10 mm	13 mm	19 mm	25 mm
23 cm / 9"	<b>V12-226-06</b>	<b>V12-226-10</b>	<b>V12-226-13</b>	<b>V12-226-19</b>	<b>V12-226-25</b>
28 cm / 11"	<b>V12-227-06</b>	<b>V12-227-10</b>	<b>V12-227-13</b>	<b>V12-227-19</b>	<b>V12-227-25</b>

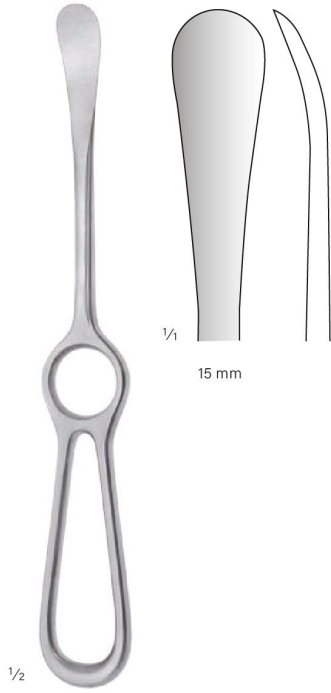
1/2

**Cobb**  
**V12-226-06**  
**V12-227-25**

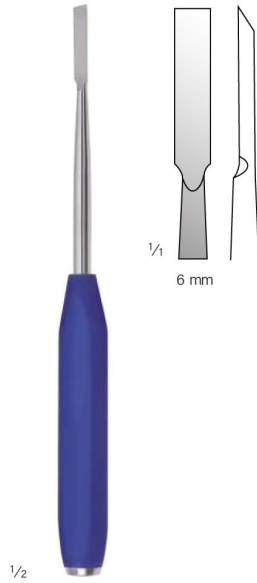
V



**Periosteal Elevators**  
 Raspatorien  
 Periostótomos  
 Rugines-raspatoires  
 Periostotomi



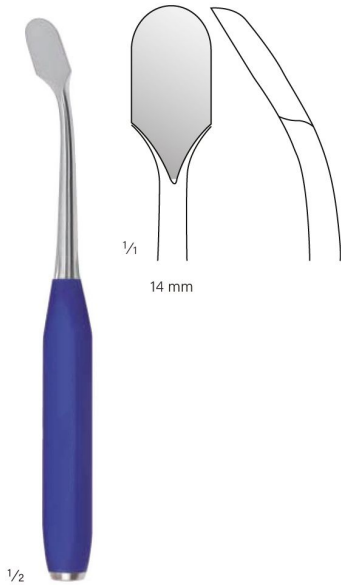
**Sedillot**  
**V12-228-23**  
 23 cm / 9"



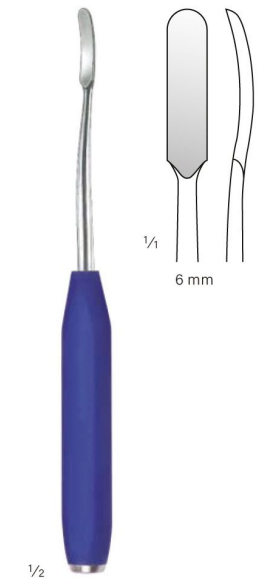
**V12-229-20**  
 20 cm / 7 7/8"  
 Sic



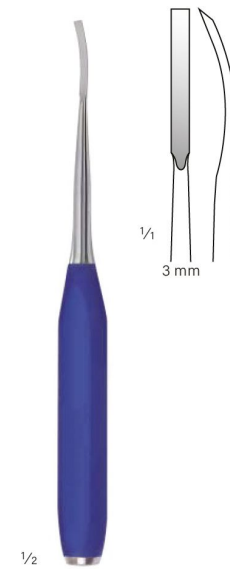
**V12-230-20**  
 20 cm / 7 7/8"  
 Sic



**V12-231-20**  
 20 cm / 7 7/8"  
 Sic

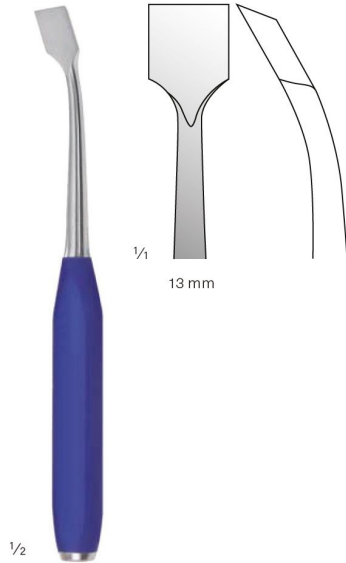


**V12-232-20**  
 20 cm / 7 7/8"  
 Sic



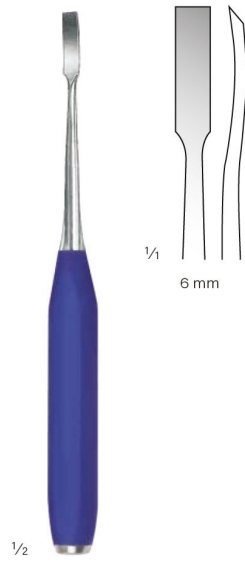
**V12-233-20**  
 20 cm / 7 7/8"  
 Sic

**Periosteal Elevators**  
 Raspatorien  
 Periostótomos  
 Rugines-raspatoires  
 Periostotomi



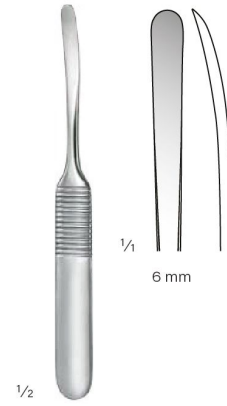
**V12-234-20**  
 20 cm / 7 7/8"

Sic



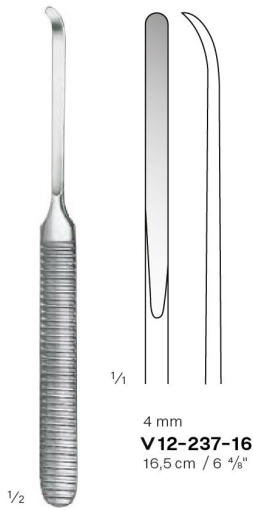
**V12-235-20**  
 20 cm / 7 7/8"

Sic



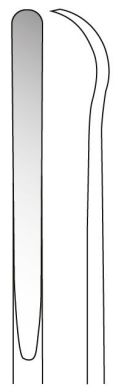
**Williger**  
**V12-236-12**

12,5 cm / 4 7/8"  
 massiv  
 solid  
 macizo  
 solide  
 pieno

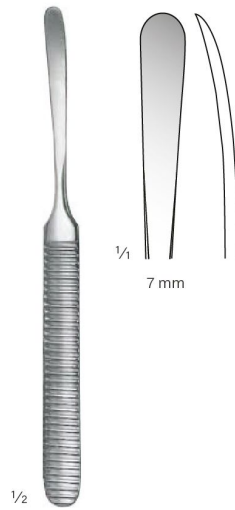


**V12-237-16**  
 16,5 cm / 6 4/8"

**Kahre-Williger**  
**V12-237-16**  
**V12-238-16**  
 16,5 cm / 6 4/8"  
 massiv  
 solid  
 macizo  
 solide  
 pieno

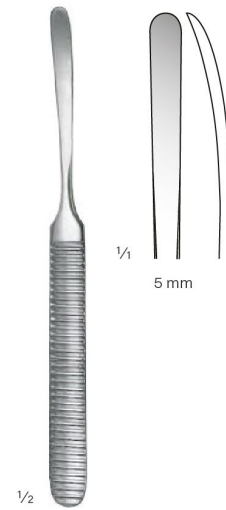


**V12-238-16**  
 16,5 cm / 6 4/8"



**Williger**  
**V12-239-16**

16 cm / 6 1/8"  
 massiv  
 solid  
 macizo  
 solide  
 pieno

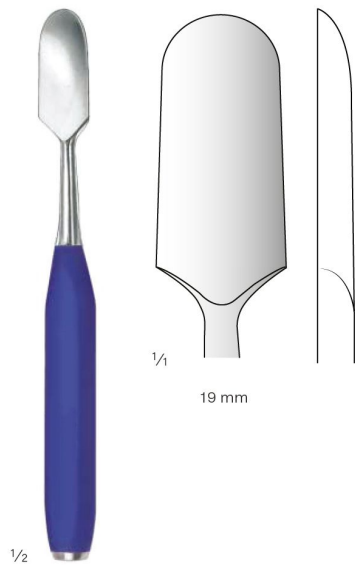


**Williger**  
**V12-240-16**

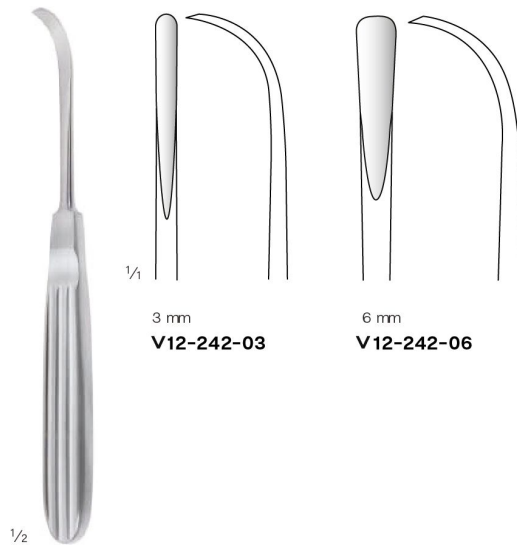
16 cm / 6 1/8"  
 massiv  
 solid  
 macizo  
 solide  
 pieno



**Periosteal Elevators**  
 Raspatorien  
 Periostótomos  
 Rugines-raspatoires  
 Periostotomi



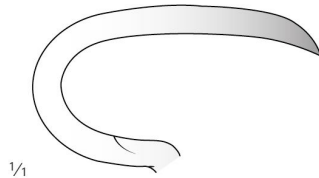
**V12-241-20**  
 20 cm / 7 7/8"



**V12-242-03**  
**V12-242-06**  
 17 cm / 6 5/8"



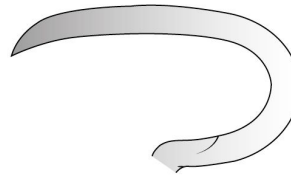
**V12-243-06**  
**V12-243-08**  
 17 cm / 6 5/8"  
 mit Hohlheft  
 with hollowheft  
 con mango hueco  
 avec manche creux  
 con manico vuoto



**V 12-244-17**

17 cm / 6 5/8"

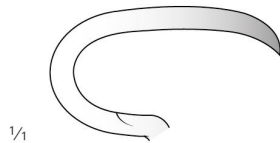
rechts gebogen  
 right curved  
 curvo a la derecha  
 courbé à droite  
 curvo destro



**V 12-245-17**

17 cm / 6 5/8"

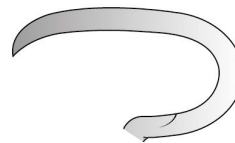
links gebogen  
 left curved  
 curvo a la izquierda  
 courbé à gauche  
 curvo sinistro



**V 12-246-18**

18 cm / 7 1/8"

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



**V 12-247-18**

18 cm / 7 1/8"

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

für Erwachsene  
 for adults  
 para adultos  
 pour adultes  
 per adulti

für Kinder  
 for children  
 para niños  
 pour enfants  
 per bambini



1/2

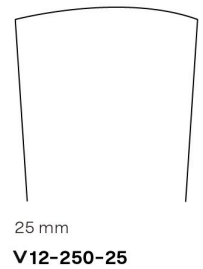
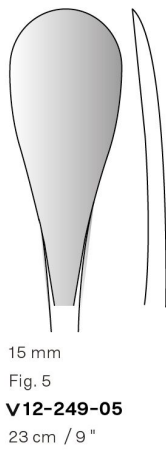
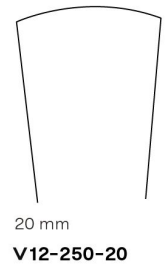
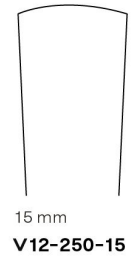
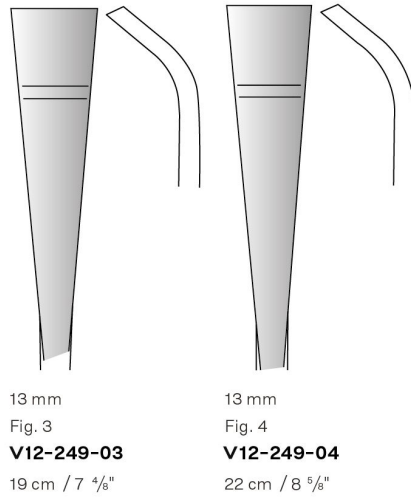
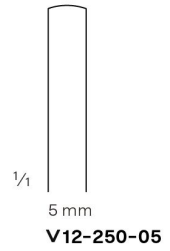
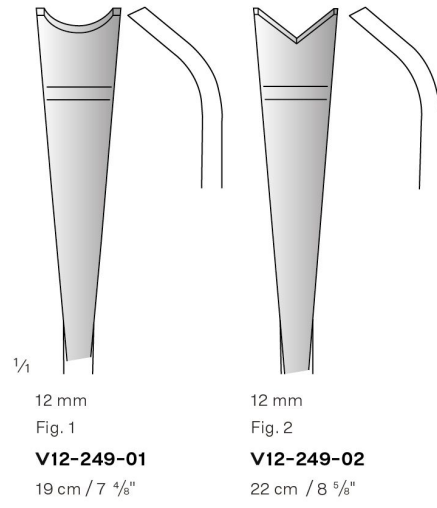
**Doyen**

**V 12-244-17**

**V 12-247-18**

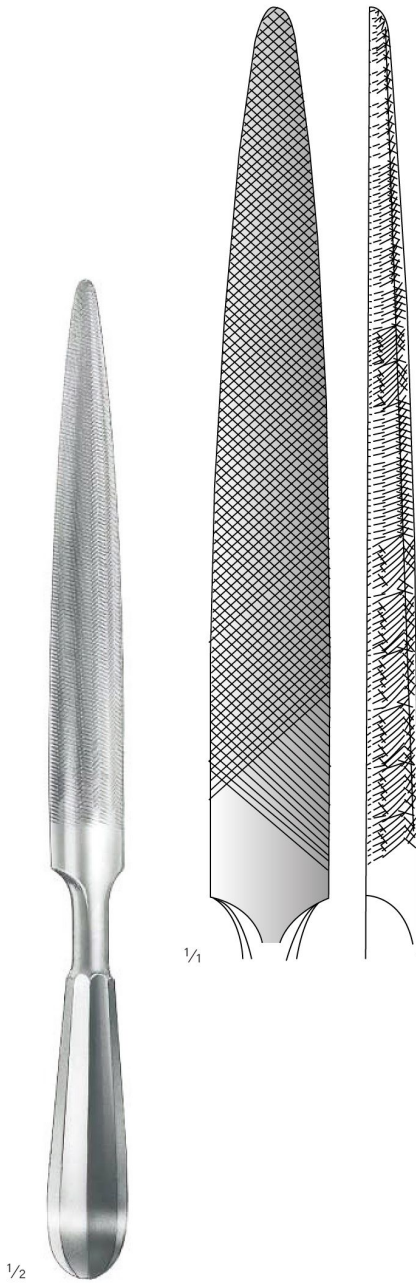
Rippenraspatorien, mit Hohlheft  
 Rib Raspatories, with hollow handle  
 Legras costales, con mango hueco  
 Rugines pour le périoste costale avec manche creux  
 Periostotomi costali, con manico vuoto

**Periosteal Elevators**  
 Raspatorien  
 Periostótomos  
 Rugines-raspatoires  
 Periostotomi



**Bone Files**

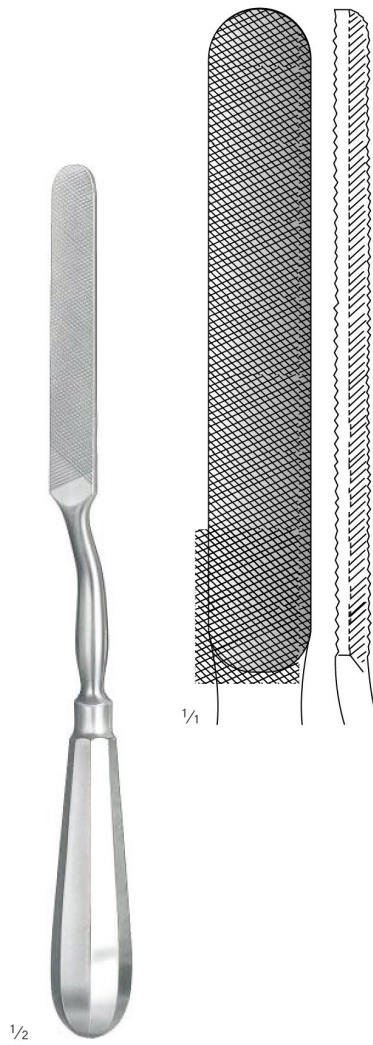
Knochenfeilen  
Limas para huesos  
Limes à os  
Lime per ossa



**V12-251-28**

28 cm / 11"

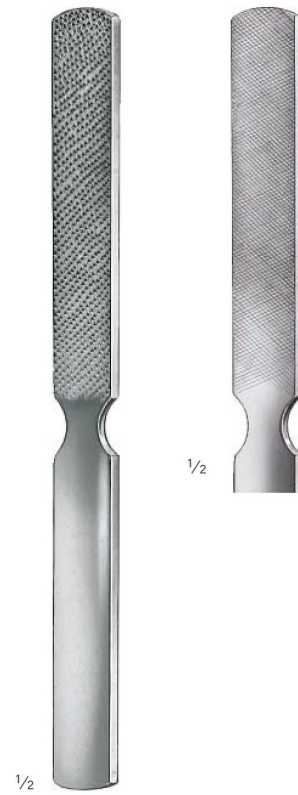
halbrund, mit Hohlheft  
semi round, with hollow handle  
semi-redonda, con mango hueco  
semi-ronde, avec manche creux  
semi-rotonda, con manico vouto



**V12-255-25**

25 cm / 9 7/8"

halbrund, mit Hohlheft  
semi round, with hollow handle  
semi-redonda, con mango hueco  
semi-ronde, avec manche creux  
semi-rotonda, con manico vouto



**V12-253-22**

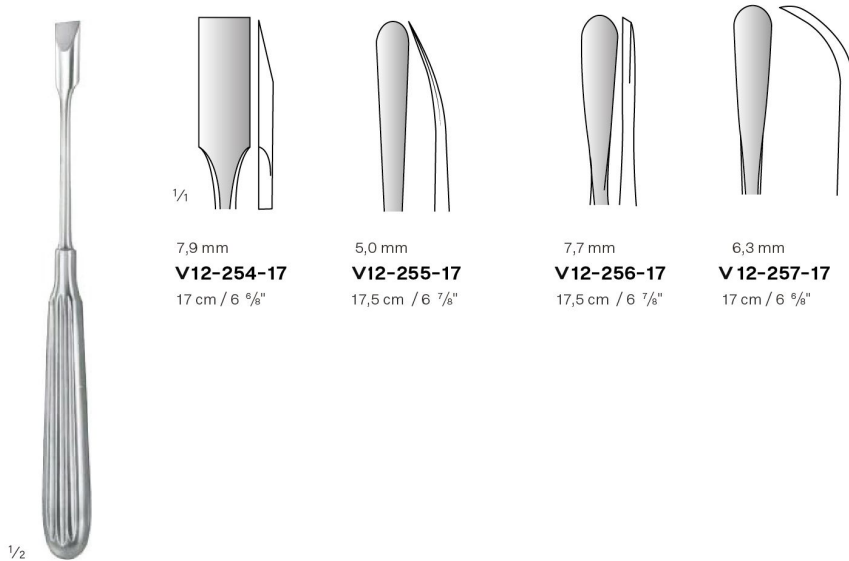
22 cm / 8 5/8"

flach, massiv  
flat, solid  
plana, maciza  
plate, solide  
plana, solida





**Elevators, Bone Files**  
 Elevatorii, Knochenfeilen  
 Elevadores, Limas para huesos  
 Elévateurs, Limes à os  
 Elevatori, Lime per ossa



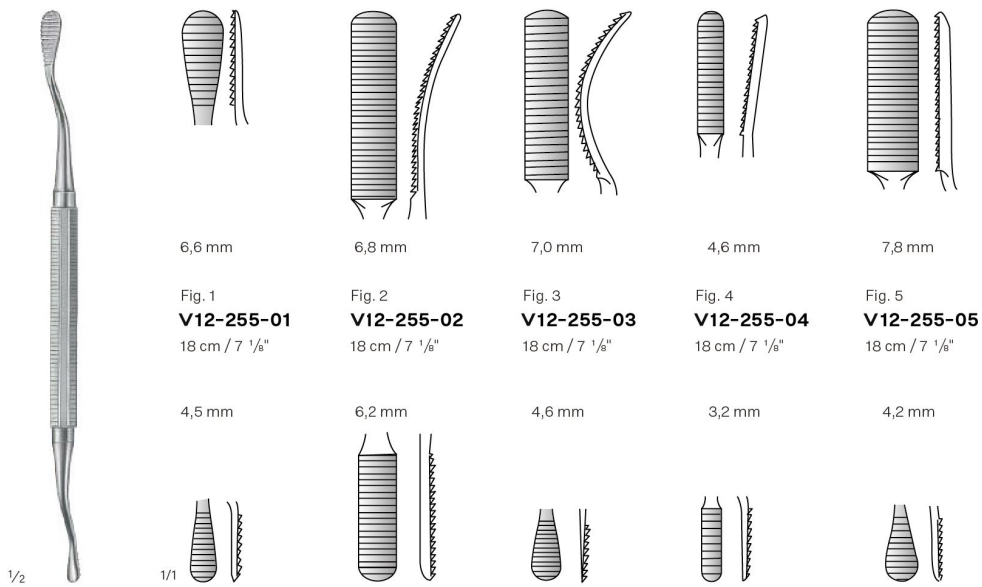
7,9 mm  
**V12-254-17**  
 17 cm / 6 5/8"

5,0 mm  
**V12-255-17**  
 17,5 cm / 6 7/8"

7,7 mm  
**V12-256-17**  
 17,5 cm / 6 7/8"

6,3 mm  
**V12-257-17**  
 17 cm / 6 5/8"

**Adson**  
**V12-254-17**  
**V12-257-17**



6,6 mm  
 Fig. 1  
**V12-255-01**  
 18 cm / 7 1/8"

6,8 mm  
 Fig. 2  
**V12-255-02**  
 18 cm / 7 1/8"

7,0 mm  
 Fig. 3  
**V12-255-03**  
 18 cm / 7 1/8"

4,6 mm  
 Fig. 4  
**V12-255-04**  
 18 cm / 7 1/8"

7,8 mm  
 Fig. 5  
**V12-255-05**  
 18 cm / 7 1/8"

4,5 mm

6,2 mm

4,6 mm

3,2 mm

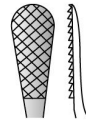
4,2 mm

**Miller-Colburn**  
**V12-255-01**  
**V12-255-05**

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

**Bone Files, Alveotomy Files**

Knochenfeilen, Alveotomiefeilen  
 Limas para huesos, Limas para alveotomía  
 Limes à os, Limes pour alvéolotomie  
 Lime per ossa, Lime per alveolotomia



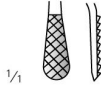
6,0 mm

Fig. 1

**V12-256-01**

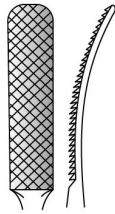
18 cm / 7 1/8"

4,0 mm



1/2

1/1



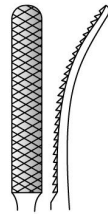
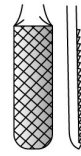
7,2 mm

Fig. 2

**V12-256-02**

18 cm / 7 1/8"

5,6 mm



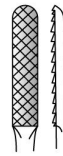
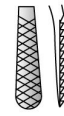
6,2 mm

Fig. 3

**V12-256-03**

18 cm / 7 1/8"

4,5 mm



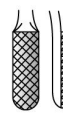
5,0 mm

Fig. 4

**V12-256-04**

18 cm / 7 1/8"

4,0 mm



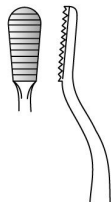
**Miller-Colburn**

**V 12-256-01**

**V 12-256-04**

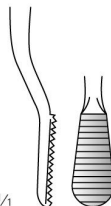
Kreuzhieb  
 cross cut  
 picado en cruz  
 taille croisée  
 tagliente a croce

**TC GOLD**



5,0 mm

7,5 mm



1/2

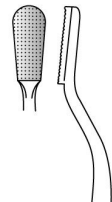
1/1

**Miller**

**V 12-257-19**

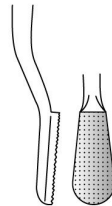
19 cm / 7 4/8"

**TC GOLD**



5,0 mm

7,5 mm



1/2

1/1

**Miller**

**V 12-258-19**

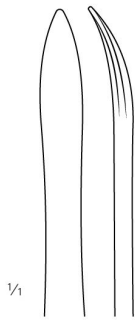
19 cm / 7 4/8"



**Elevators**  
 Elevatorii  
 Elevadores  
 Élévateurs  
 Elevatori

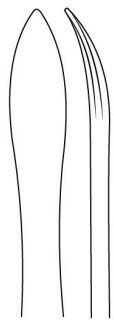


1/2



1/4

7 mm  
**V12-259-07**  
 19,5 cm / 7 5/8"

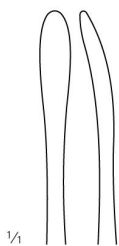


10 mm  
**V12-259-10**  
 19,5 cm / 7 5/8"

**Langenbeck**  
**V12-259-07**  
**V12-259-10**

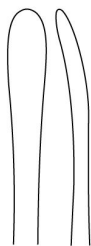


1/2

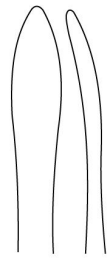


1/4

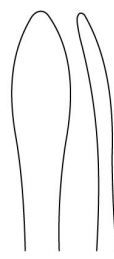
5 mm  
**V12-260-05**  
 17 cm / 6 5/8"



7 mm  
**V12-260-07**  
 17 cm / 6 5/8"



8 mm  
**V12-260-08**  
 19,5 cm / 7 5/8"

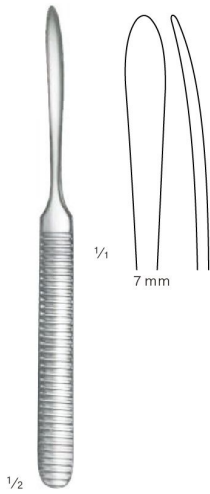


10 mm  
**V12-260-10**  
 19,5 cm / 7 5/8"

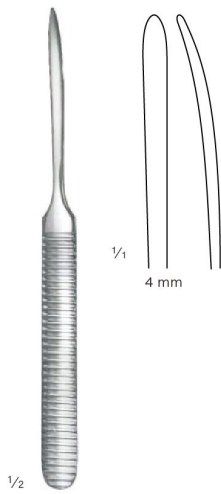
**Martin-Langenbeck**  
**V12-260-05**  
**V12-260-10**

massiv  
 solid  
 macizo  
 solide  
 pieno

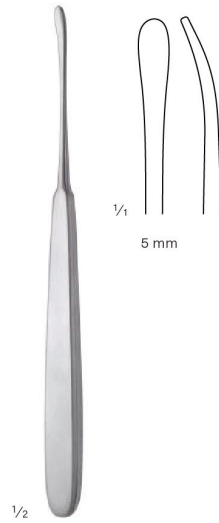




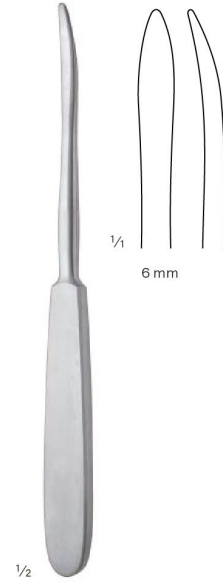
**Williger**  
**V12-261-17**  
17 cm / 6 5/8"  
massiv  
solid  
macizo  
solide  
pieno



**Williger**  
**V12-262-16**  
16 cm / 6 2/8"  
massiv  
solid  
macizo  
solide  
pieno



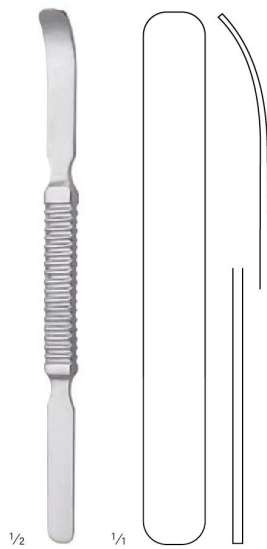
**Sebileau**  
**V12-263-17**  
17,5 cm / 6 7/8"



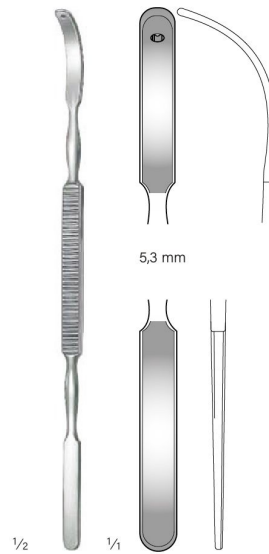
**Quervain**  
**V12-264-19**  
19,5 cm / 7 5/8"



**Alderdyce**  
**V12-265-21**  
21 cm / 8 2/8"



**V12-266-18**  
18 cm / 7 1/8"

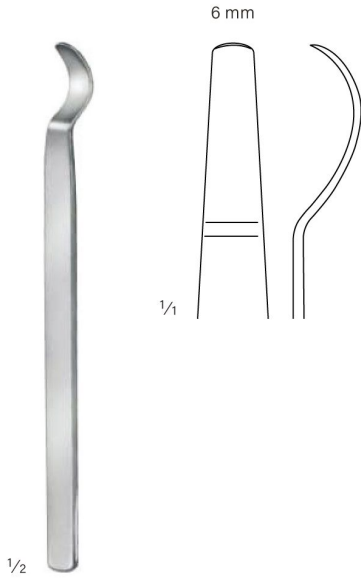


**McDonald**  
**V12-267-18**  
18,5 cm / 7 3/8"



**Bone Levers**

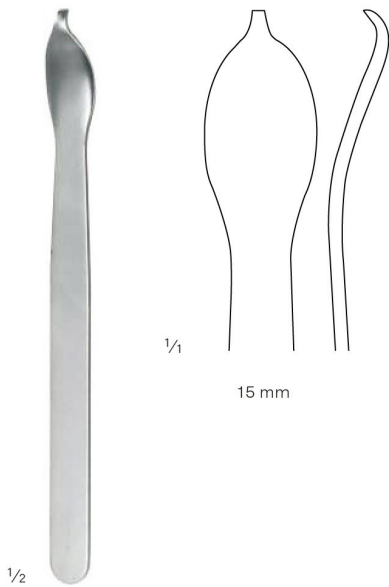
Knochenhebel  
Elevadores para hueso  
Leviers à os  
Elevatori per ossa



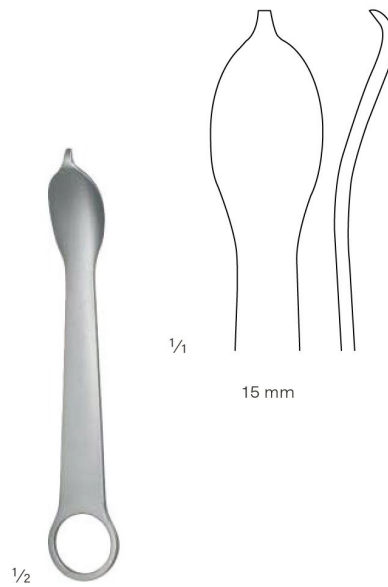
**V12-268-15**  
15 cm / 5 7/8"



**Hohmann, mini**  
**V12-269-06**  
**V12-269-08**  
16 cm / 6 2/8"



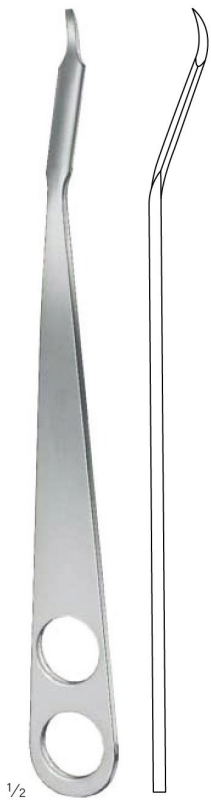
**V12-270-16**  
16 cm / 6 2/8"



**V12-271-12**  
12 cm / 4 6/8"

**Bone Levers**

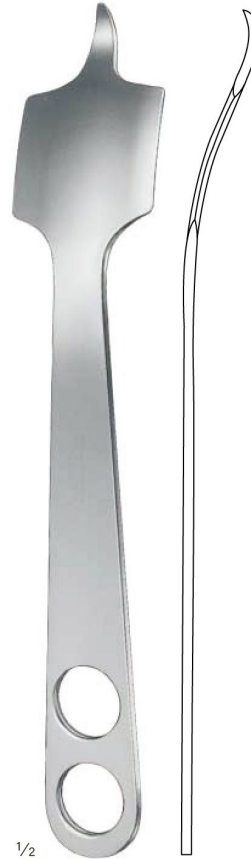
Knochenhebel  
Elevadores para hueso  
Leviers à os  
Elevatori per ossa



8 mm  
**Hohmann**  
**V12-272-08**  
21,5 cm / 8 4/8"  
schmale Spitze  
narrow tip  
punta estrecha  
pointe étroite  
punta stretta



18 mm  
**Hohmann**  
**V12-273-18**  
23,5 cm / 9 2/8"  
schmale Spitze  
narrow tip  
punta estrecha  
pointe étroite  
punta stretta



43 mm  
**Hohmann**  
**V12-274-43**  
23,5 cm / 9 2/8"  
schmale Spitze  
narrow tip  
punta estrecha  
pointe étroite  
punta stretta



**Bone Levers**

Knochenhebel  
Elevadores para hueso  
Leviers à os  
Elevatori per ossa



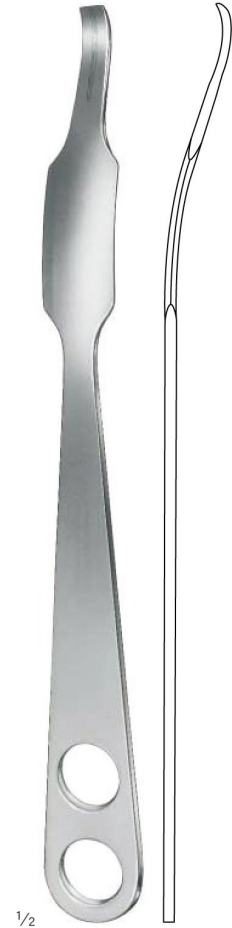
70 mm  
**Hohmann**  
**V12-275-70**

25 cm / 9 7/8"  
schmale Spitze  
narrow tip  
punta estrecha  
pointe étroite  
punta stretta



43 mm  
**Hohmann**  
**V12-276-43**

23,5 cm / 9 2/8"  
schmale Spitze  
narrow tip  
punta estrecha  
pointe étroite  
punta stretta



22 mm  
**Hohmann**  
**V12-277-22**

25,5 cm / 10 "  
breite Spitze  
wide tip  
punta ancha  
pointe large  
punta larga



## Bone Levers

Knochenhebel  
Elevadores para hueso  
Leviers à os  
Elevatori per ossa



35 mm  
**Hohmann**  
**V12-278-35**  
29 cm / 11 <sup>3</sup>/<sub>8</sub>"  
breite Spitze  
wide tip  
punta ancha  
pointe large  
punta larga



24 mm  
**Hohmann**  
**V12-279-24**  
27,5 cm / 10 <sup>7</sup>/<sub>8</sub>"  
breites, rundes Ende  
wide, round tip  
punta ancha, redonda  
pointe large, ronde  
punta larga, rotonda



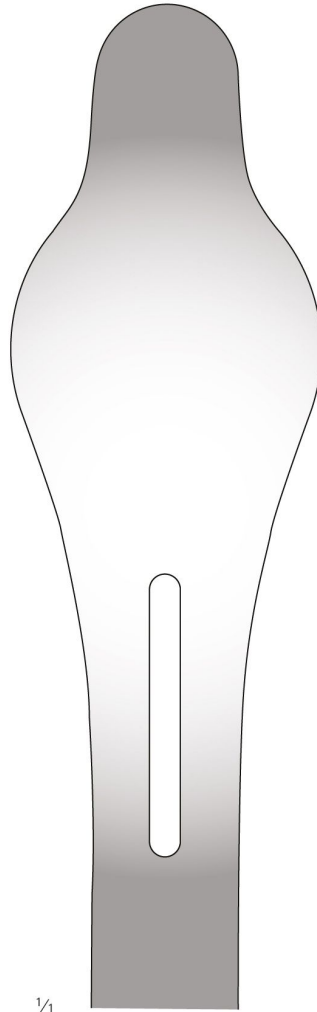
22 mm  
**Lange-Hohmann**  
**V12-280-22**  
25 cm / 9 <sup>7</sup>/<sub>8</sub>"  
breite Spitze mit Längsrille  
wide tip with groove  
punta ancha con ranura  
pointe large avec rainure  
punta larga con scanallatura





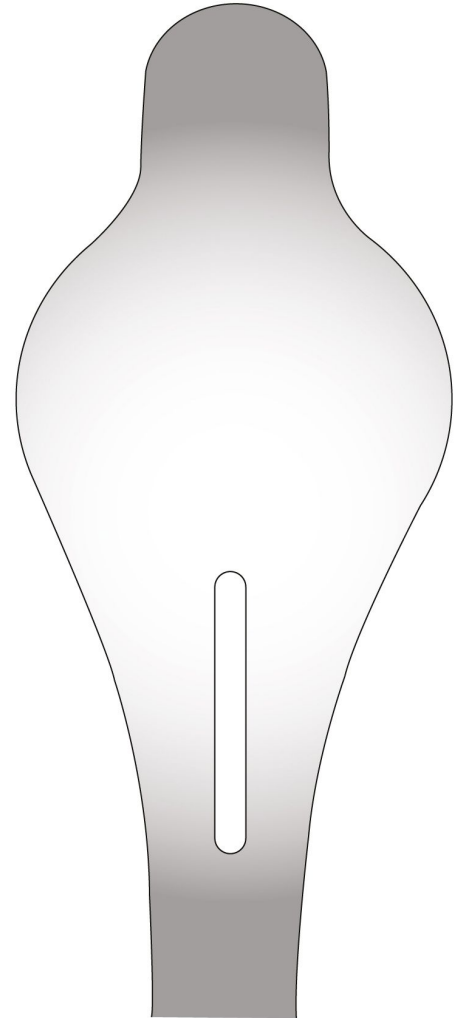
**Bone Levers**

Knochenhebel  
Elevadores para hueso  
Leviers à os  
Elevatori per ossa



1/4

43 mm  
**V12-281-24**  
24 cm / 9 4/8"



60 mm  
**V12-281-23**  
23,5 cm / 9 2/8"

1/2

**Bennett**  
**V12-281-24**  
**V12-281-23**



**Knee Retractors, Spinal Retractors**

Kniehaken, Spinalhaken  
 Separadores para rodilla, Separadores espinal  
 Ecarteurs pour le genou, Ecarteurs spinaux  
 Divaricatori per il ginocchio, Divaricatori spinali



1/3

39 mm  
 Blount

**V12-282-26**

26,5 cm / 10 3/8"

stumpf  
 blunt  
 romo  
 mousse  
 smusso

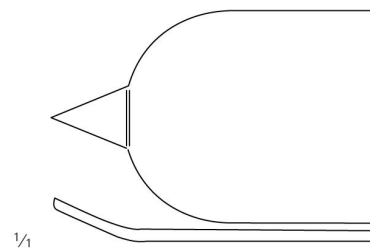


1/3

47 mm  
 Blount

**V12-283-26**

26,5 cm / 10 3/8"

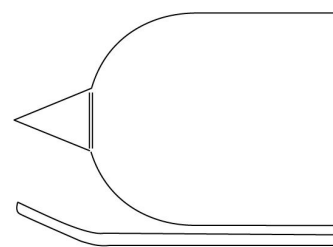


1/4

95 x 30 mm

**V12-285-16**

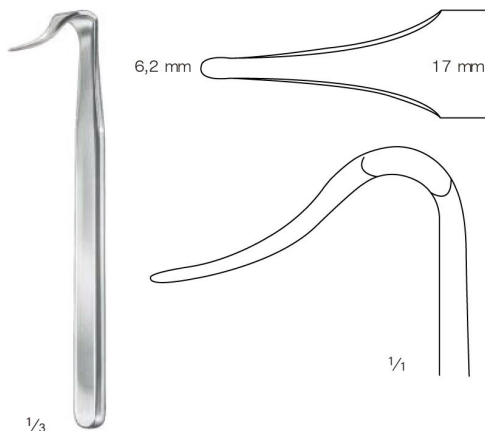
16 cm / 6 2/8"



115 x 30 mm

**V12-286-16**

16 cm / 6 2/8"



1/3

**Blount**

**V12-284-17**

17,5 cm / 6 7/8"



1/3

**Taylor**

**V12-285-16**

**V12-286-16**

16 cm / 6 2/8"



**Meniscus Knives**  
 Meniskotome, Meniskusmesser  
 Cuchillos para menisco  
 Bistouris à ménisque  
 Meniscotomi

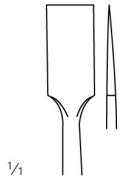


Fig. 1  
**V12-287-17**

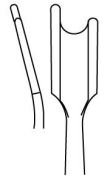


Fig. 2  
**V12-288-17**

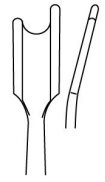


Fig. 3  
**V12-289-17**

**V12-287-17**  
**V12-289-17**  
 17,5 cm / 6 7/8"



Fig. 1  
**V12-290-22**



Fig. 2  
**V12-291-22**

**Neff**  
**V12-290-22**  
**V12-291-22**  
 22 cm / 8 5/8"



**Salenius**  
**V12-292-21**  
 21,5 cm / 8 1/2"



**Salenius**  
**V12-293-21**  
 21,5 cm / 8 1/2"

**Tendon Strippers**  
 Sehnenstripper  
 Enucleadores de tendones  
 Instruments à écorcher les tendons  
 Scollatendini



Fig. 1  
**V12-294-01**  
 15 cm / 5 7/8"  
 Ø 4,5 mm



Fig. 2  
**V12-294-02**  
 15 cm / 5 7/8"  
 Ø 5,5 mm



Fig. 3  
**V12-294-03**  
 15 cm / 5 7/8"  
 Ø 6,5 mm



Fig. 4  
**V12-294-04**  
 15 cm / 5 7/8"  
 Ø 7,5 mm



Fig. 5  
**V12-294-05**  
 15 cm / 5 7/8"  
 Ø 8,5 mm



1/2

**Bunnell**  
**V12-294-01**  
**V12-294-05**  
 15 cm / 5 7/8"



**V12-295-40**  
 23 cm / 9"  
 Ø 4 mm



**V12-295-45**  
 23 cm / 9"  
 Ø 4,5 mm



**V12-295-55**  
 23 cm / 9"  
 Ø 5,5 mm



1/2

**V12-295-40**  
**V12-295-55**  
 23 cm / 9"  
 flexibler Schaft  
 flexible shaft  
 vástago flexible  
 tige flexible  
 gambo flessibile

1/4



**V12-296-01**  
 Schraube  
 Screw  
 Tornillo  
 Vis  
 Vite  
**V12-296-00**



1/2

**V12-296-00**  
**V12-296-01**  
 33,5 cm / 13 1/8"  
 Sehnedurchzuginstrument  
 Tendon Passing Instrument  
 Pasador de tendones  
 Instrument pour passer les tendons  
 Scollatendini



**Tendon Strippers**  
Sehnenstripper  
Enucleadores de tendones  
Instruments à écorcher les tendons  
Scollatendini



**V12-297-28**  
28,5 cm / 11 2/8"



**Bunnell**  
**V12-298-23**  
23 cm / 9"  
Sehnen durchzugs sonde  
Tendon Passer  
Sonda conductora de tendones  
Sonde conductrice pour tendons  
Sonda conduttrice per tendini



**Tendon Holding Forceps, Tendon Tunnelling Forceps**

Sehnenfasszangen, Sehnedurchzugzangen

Pinzas para coger tendones, Pinzas para pasar tendones

Pinces pour saisir les tendons, Pinces pour passer les tendons

Pinze per afferrare tendini, Pinze passa-tendini



**Steinmann**  
**V12-299-16**  
16 cm / 6 2/8"



**Brand**  
**V12-300-15**  
**V12-300-24**

**10-15**  
5 7/8"  
1:3

**V12-300-19**  
19 cm / 7 4/8"  
2:3

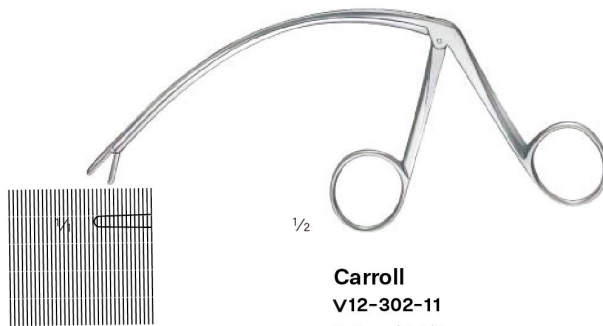
**V12-300-24**  
24,5 cm / 9 5/8"  
2:3



**V12-301-21**  
**V12-301-20**

1/4  
**V12-301-21**  
21 cm / 8 2/8"  
2:3

**V12-301-20**  
20,5 cm / 8 1/8"  
2:3



**Carroll**  
**V12-302-11**  
11,5 cm / 4 4/8"



**Tendon Holding Forceps, Tendon Interlacing Forceps**

Sehnenfasszangen, Sehnenflechtzangen

Pinzas para coger tendones, Pinzas para entrelazar tendones

Pinces pour saisir les tendons, Pinces pour entrelacer les tendons

Pinze per afferrare tendini, Pinze per allacciare tendini



**V12-303-11**

11,5 cm / 4 5/8"



**Kleinert-Kutz**

**V 12-304-21**

21 cm / 8 2/8"

Schaftlänge

shaft length

longitud del vástago

longueur de la tige

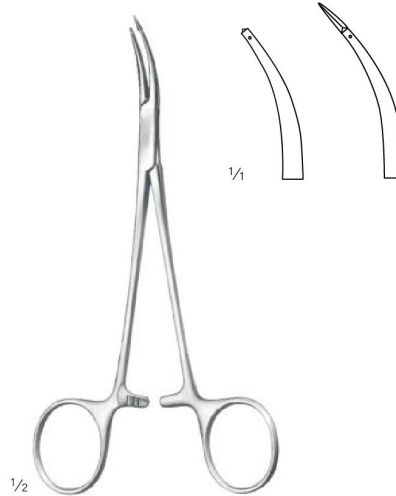
lunghezza dell'asta

140 mm



**V12-305-15**

15 cm / 5 7/8"



**V12-306-15**

15 cm / 5 7/8"

**Cartilage Seizing Forceps, Bone Holding Forceps**

Knorpelfasszangen, Knochenhalte­zangen  
 Pinzas para cartilago, Pinzas para hueso  
 Pinces à cartilage, Daviers porte-os  
 Pinze per cartilagine, Tenaglie per ossa

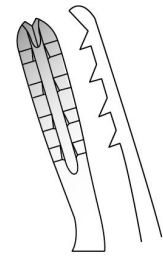


**V12-307-14**  
 14,5 cm / 5 9/16"

Knochenhalte­zange  
 Bone Holding Forceps  
 Pinza para hueso  
 Davier porte-os  
 Tenaglio per ossa



**V12-308-21**  
 21 cm / 8 3/8"  
 gerade  
 straight  
 recta  
 droite  
 diritta

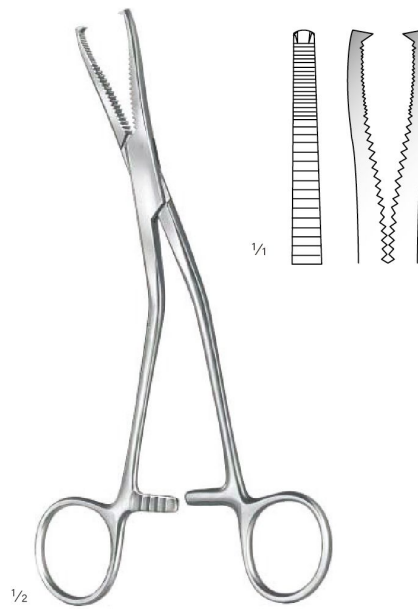


**V12-308-20**  
 20,5 cm / 8 1/8"  
 aufgebogen  
 curved upwards  
 curva por arriba  
 courbée en haut  
 curva in alto

**Bircher-Ganske**  
**V12-308-21**  
**V12-308-20**



**Bircher-Ganske**  
**V12-309-20**  
 20 cm / 7 7/8"  
 seitwärts gebogen  
 curved sidwards  
 curva lateralmente  
 courbée latéralement  
 curva lateralmente



**Dingmann**  
**V12-310-18**  
 18,5 cm / 7 3/8"





**Cartilage Seizing Forceps, Reposition Forceps, Bone Holding Forceps**

Knorpelfasszangen, Repositionszangen, Knochenhalte-zangen  
Pinzas para cartilago, Pinzas para reposición, Pinzas para hueso  
Pincers à cartilage, Pincers à réduction, Daviers porte-os  
Pinze per cartilagine, Pinze per riposizioni, Tenaglie per ossa



**Martin**  
**V12-311-18**  
18,5 cm / 7 <sup>2</sup>/<sub>8</sub>"



**V12-312-13**  
13,5 cm / 5 <sup>3</sup>/<sub>8</sub>"  
lange Sperre  
long ratchet  
cremallera larga  
cremallière longue  
cremagliera lunga



**Lewin**  
**V12-313-18**  
18 cm / 7 <sup>1</sup>/<sub>8</sub>"



**V12-314-14**  
14 cm / 5 <sup>4</sup>/<sub>8</sub>"  
grazil  
delicate  
delicada  
gracile  
sottile



**V12-315-09**  
9 cm / 3 <sup>4</sup>/<sub>8</sub>"  
lange Sperre  
long ratchet  
cremallera larga  
cremallière longue  
cremagliera lunga



**V12-316-15**  
15 cm / 5 <sup>7</sup>/<sub>8</sub>"  
lange Sperre  
long ratchet  
cremallera larga  
cremallière longue  
cremagliera lunga

**Bone Holding Forceps**

Knochenhaltezangen  
Pinzas para hueso  
Daviers porte-os  
Tenaglie per ossa



**Langenbeck**

**V12-317-21**

21 cm / 8 2/8"



**Fergusson**

**V12-318-21**

21 cm / 8 2/8"

kräftiges Modell  
heavy pattern  
modelo fuerte  
modèle fort  
modello forte



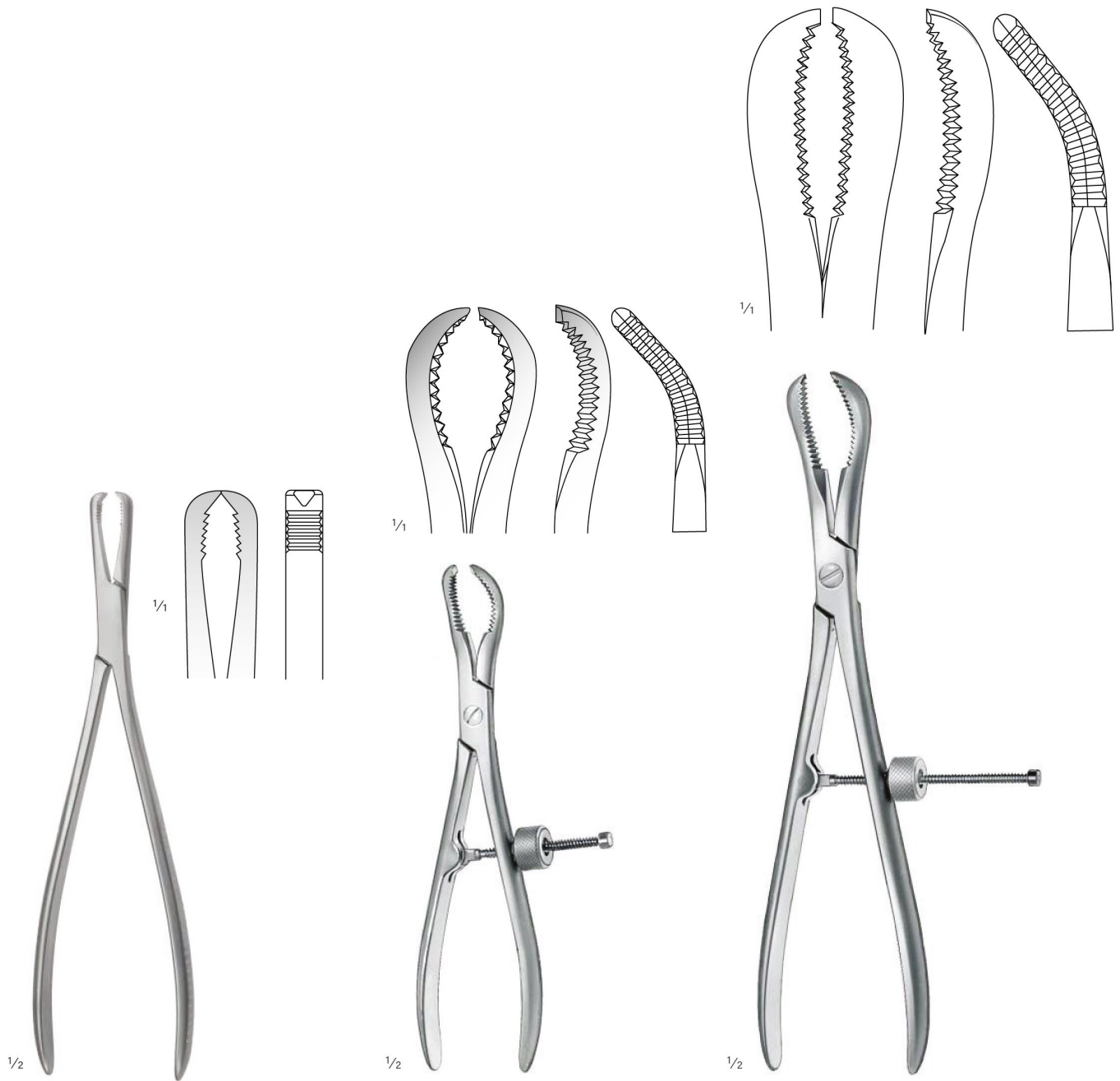
**Frosch**

**V12-319-18**

18 cm / 7 1/8"

## Bone Holding Forceps

Knochenhaltezaugen  
Pinzas para hueso  
Daviers porte-os  
Tenaglie per ossa



### V12-320-20

20 cm / 7 <sup>7</sup>/<sub>8</sub>"

### V12-321-17

17,5 cm / 6 <sup>7</sup>/<sub>8</sub>"

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

### V12-322-24

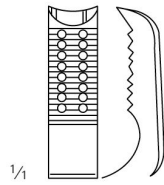
24 cm / 9 <sup>4</sup>/<sub>8</sub>"

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

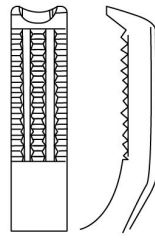


**Bone Holding Forceps, Reposition Forceps**

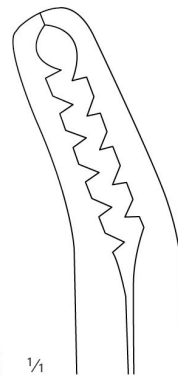
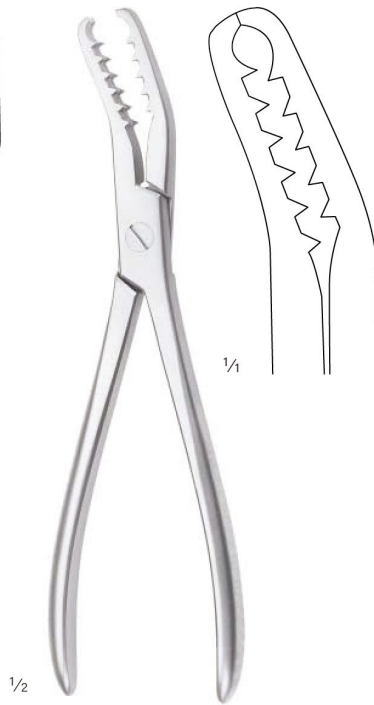
Knochenhaltezangen, Repositionszangen  
Pinzas para hueso, Pinzas para reposición  
Daviers porte-os, Pincas à réduction  
Tenaglie per ossa, Pinze per riposizioni



**V12-323-17**  
17 cm / 6 5/8"



**V12-323-24**  
24,5 cm / 9 5/8"



**Semb**  
**V12-324-19**  
19,5 cm / 7 5/8"  
seitwärts gebogen  
curved sideways  
curva lateralmente  
courbée latéralement  
curva lateralmente

**Kern**  
**V12-323-17**  
**V12-323-24**

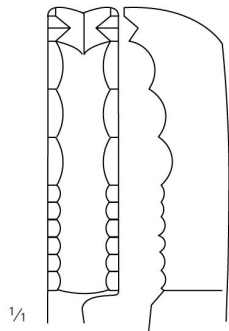
**Bone Holding Forceps**

Knochenhaltezaugen  
Pinzas para hueso  
Daviers porte-os  
Tenaglie per ossa



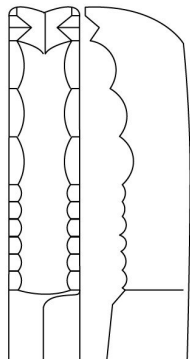
1/2

**Farabeuf**  
V12-325-23  
V12-325-26



1/4

**V12-325-23**  
23 cm / 9"

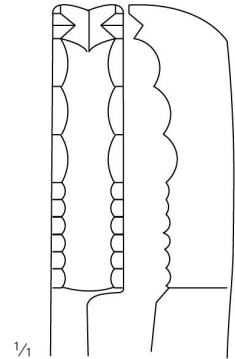


**V12-325-26**  
26 cm / 10 2/8"



1/2

**Farabeuf**  
V12-326-26  
26 cm / 10 2/8"

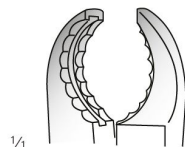
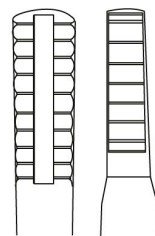
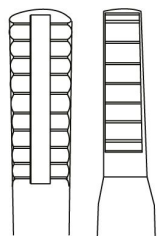
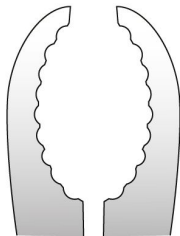


1/4

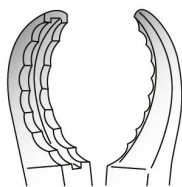


## Bone Holding Forceps

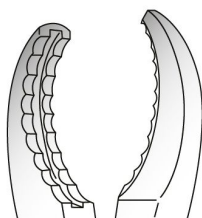
Knochenhaltezangen  
Pinzas para hueso  
Daviers porte-os  
Tenaglie per ossa



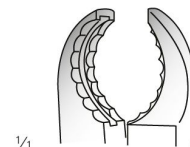
**V 12-327-23**  
23 cm / 9"



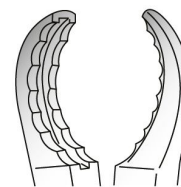
**V 12-327-25**  
25 cm / 9 7/8"



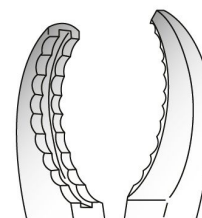
**V 12-327-28**  
28 cm / 11"



**V 12-328-23**  
23 cm / 9"



**V 12-328-25**  
25 cm / 9 7/8"



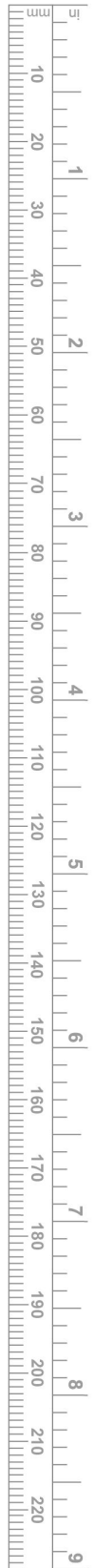
**V 12-328-28**  
27 cm / 10 5/8"

**Ulrich**  
**V 12-327-23**  
**V 12-327-28**

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

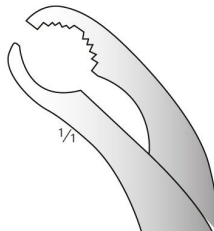
**Ulrich**  
**V 12-328-23**  
**V 12-328-28**

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

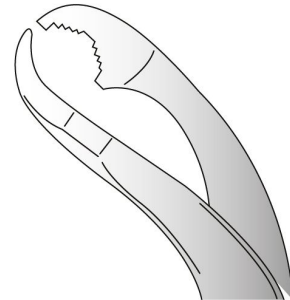


## Bone Holding Forceps

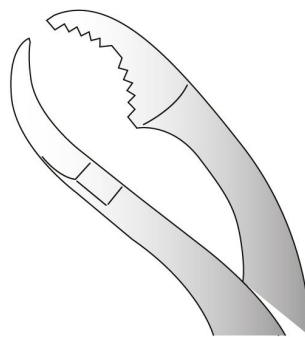
Knochenhaltezangen  
Pinzas para hueso  
Daviers porte-os  
Tenaglie per ossa



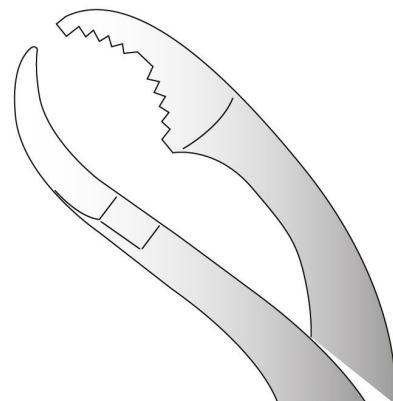
**V12-329-15**  
15 cm / 5 <sup>7</sup>/<sub>8</sub>"



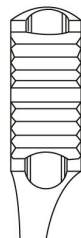
**V12-329-20**  
20 cm / 7 <sup>7</sup>/<sub>8</sub>"



**V12-329-24**  
24 cm / 9 <sup>4</sup>/<sub>8</sub>"



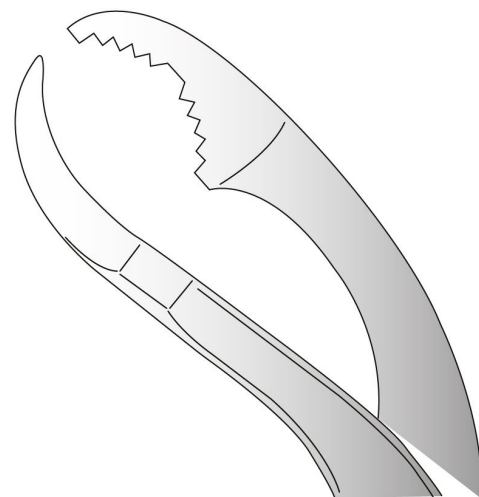
**V12-329-26**  
26 cm / 10 <sup>3</sup>/<sub>8</sub>"



**V12-329-90**  
Rändelmutter  
Knurled nut  
Tuerca moleteada  
Ecrou moleté  
Madrevite zigrinata



**V12-329-15**  
**V12-329-28**



**V12-329-28**  
28 cm / 11"

**V12-329-15**

**V12-329-90**

selbstzentrierend, mit Gewindesperre  
self-centering, with thread fixation  
autocentrante, con cremallera de rosca  
à centrage automatique, avec cremallière filetée  
centraggio automatico, con cremagliera a filettatura

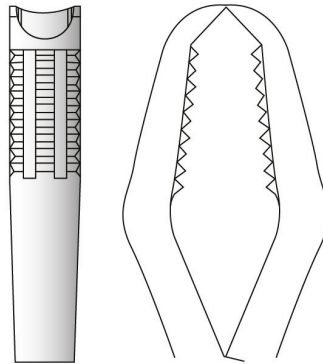


**Bone Holding Forceps**

Knochenhaltezangen  
Pinzas para hueso  
Daviers porte-os  
Tenaglie per ossa

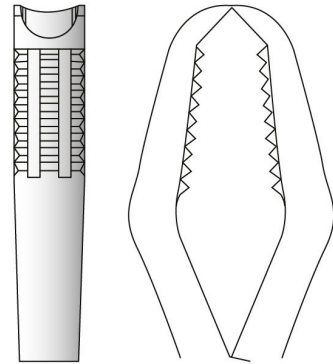


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**V12-330-33**

ohne Sperre  
without ratchet  
sin cremallera  
sans cremallière  
senza cremagliera



**V12-331-33**

mit Sperre  
with ratchet  
con cremallera  
avec cremallière  
con cremagliera



1/2

**Lane**

**V12-330-33**

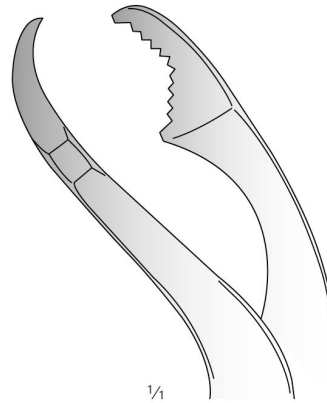
**V12-331-33**

33 cm / 13 "



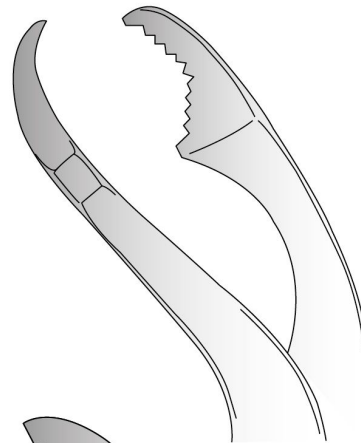
**Bone Holding Forceps**

Knochenhaltezaugen  
Pinzas para hueso  
Daviers porte-os  
Tenaglie per ossa

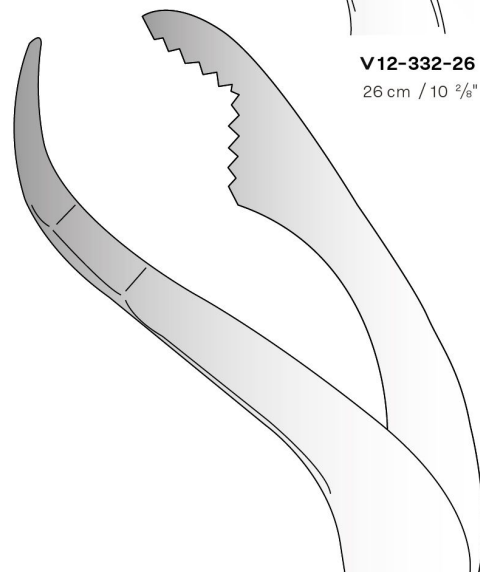


1/4

**V12-332-25**  
25 cm / 9 7/8"



**V12-332-26**  
26 cm / 10 2/8"



**V12-332-27**  
27,5 cm / 10 7/8"



1/4

1/2

**Verbrugge**  
V12-332-25  
V12-332-27



**Bone Holding Forceps, Amputation Retractor**

Knochenhaltezangen, Amputationschild  
Pinzas para hueso, Retractor para amputación  
Daviers porte-os, Retracteur pour amputation  
Tenaglie per ossa, Retrattore per amputazione

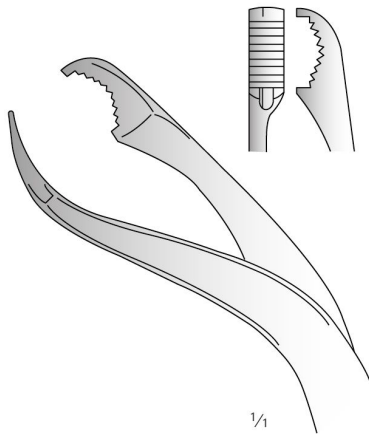


1/2

**Verbrugge**

**v12-333-17**

17,5 cm / 6 7/8"



1/4



1/2

**Percy**

**v12-334-30**

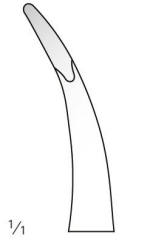
auseinandernehmbar  
detachable  
desmontable  
démontable  
smontabile



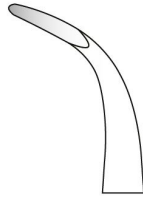
**Bone Rongeurs**  
 Hohlmeißelzangen  
 Pinzas gubias  
 Pincès-gouges  
 Pinze-sgorbie



**Stellbrink**  
**V12-335-16**  
**V12-335-17**



**V12-335-17**  
 17 cm / 6 5/8"



**V12-335-16**  
 16,5 cm / 6 1/2"



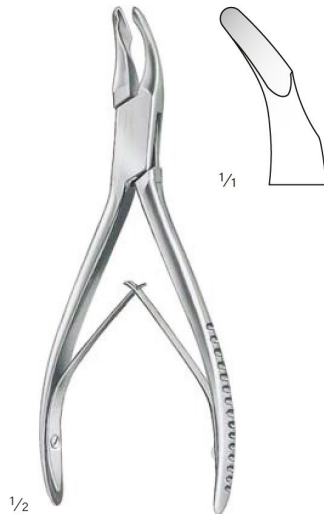
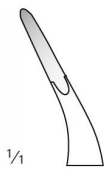
**Friedmann**  
**V12-336-12**  
 12,5 cm / 4 7/8"



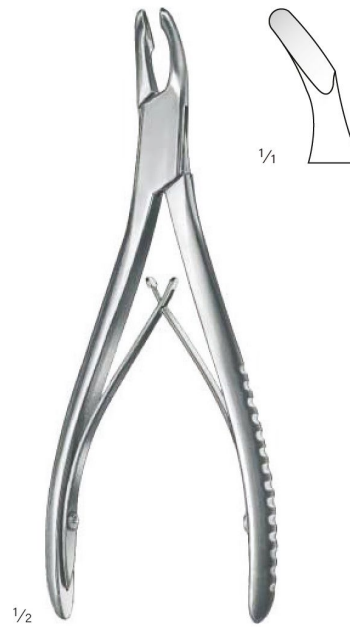
**Friedmann**  
**V12-337-13**  
 13,5 cm / 5 3/8"



**Friedmann**  
**V12-338-13**  
 13,5 cm / 5 3/8"



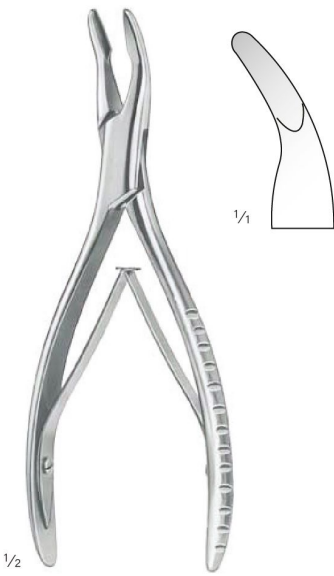
**Cleveland**  
**V12-339-13**  
 13,5 cm / 5 3/8"



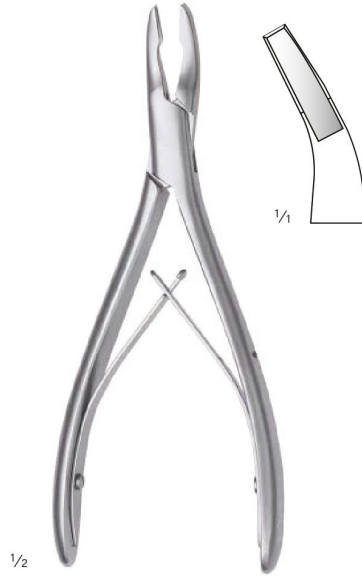
**Cleveland**  
**V12-340-16**  
 16,5 cm / 6 1/2"



**Bone Rongeurs**  
 Hohlmeißelzangen  
 Pinzas gubias  
 Pincès-gouges  
 Pinze-sgorbie



**Mead**  
**V12-341-16**  
 16,5 cm / 6 1/8"



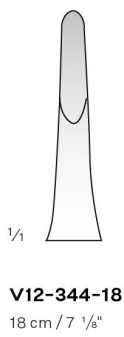
**Mead**  
**V12-342-16**  
 16,5 cm / 6 1/8"



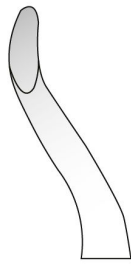
**Hartmann**  
**V12-343-17**  
 17,5 cm / 6 7/8"



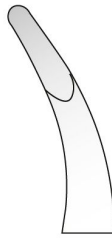
**Jansen**  
**V12-344-18**  
**V12-346-18**



**V12-344-18**  
 18 cm / 7 1/8"



**V12-345-18**  
 18,5 cm / 7 3/8"



**V12-346-18**  
 18 cm / 7 1/8"



**Lempert**  
**V12-347-19**  
**V12-348-19**  
 19 cm / 7 4/8"



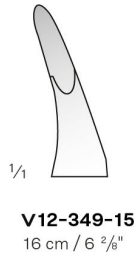
**V12-347-19**



**V12-348-19**



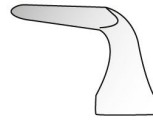
**Bone Rongeurs**  
 Hohlmeißelzangen  
 Pinzas gubias  
 Pinces-gouges  
 Pinze-sgorbie



**V12-349-15**  
 16 cm / 6 2/8"



**V12-350-15**  
 15,5 cm / 6 1/8"



**V12-351-15**  
 15 cm / 5 7/8"



**V12-352-15**  
 15,5 cm / 6 1/8"  
 S-Form  
 S-shape  
 forma S  
 courbé en S  
 curvo in forma S



**V12-353-15**  
 15,5 cm / 6 1/8"

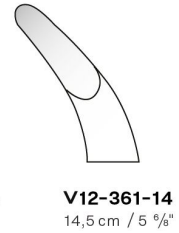
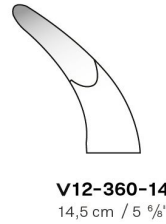
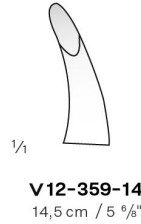
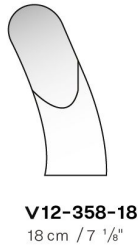
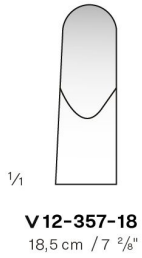


**V12-354-15**  
 15,5 cm / 6 1/8"



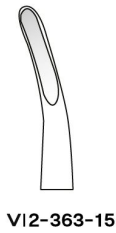
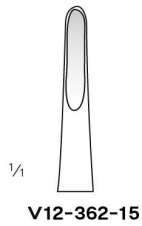
**V12-356-14**  
 14,5 cm / 5 6/8"

**Bone Rongeurs**  
 Hohlmeißelzangen  
 Pinzas gubias  
 Pincès-gouges  
 Pinze-sgorbie



**Luer**  
**V12-357-18**  
**V12-358-18**

**Luer**  
**V12-359-14**  
**V12-361-14**



**Böhler**  
**V12-362-15**  
**V12-363-15**  
 15 cm / 5 7/8"



**Beyer**  
**V12-364-18**  
 18 cm / 7 1/8"



**Zaufal-Jansen**  
**V12-365-18**  
 18 cm / 7 1/8"

**Bone Rongeurs**  
 Hohlmeißelzangen  
 Pinzas gubias  
 Pincès-gouges  
 Pinze-sgorbie



**Mayfield**  
**V 12-367-18**  
 18 cm / 7 1/8"



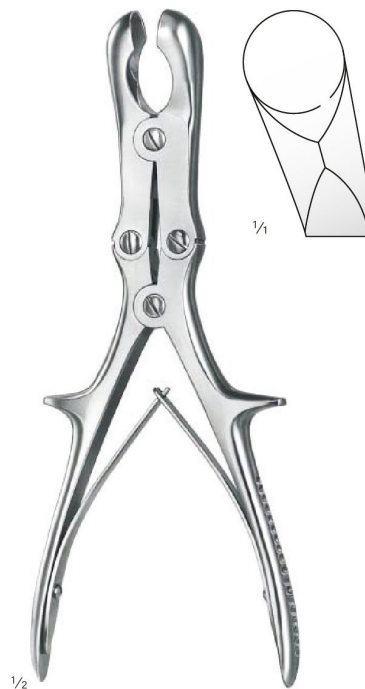
**Marquard**  
**V 12-368-20**  
 20,5 cm / 8 1/8"



**Ruskin**  
**V 12-369-19**  
 19 cm / 7 4/8"



**Ruskin**  
**V 12-370-24**  
 24 cm / 9 4/8"



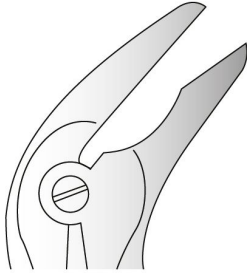
**Semb**  
**V 12-371-23**  
 23,5 cm / 9 2/8"



**Stille**  
**V 12-372-22**  
 22,5 cm / 8 7/8"

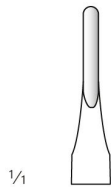
**Bone Rongeurs**

Hohlmeißelzangen  
Pinzas gubias  
Pincès-gouges  
Pinze-sgorbie



1/2

**Echlin**  
**V12-373-02**  
**V12-373-04**  
23 cm / 9"



1/1

**V12-373-02**



**V12-373-03**



**V12-373-04**



1/2

**Stille-Ruskin**  
**V12-374-23**  
23,5 cm / 9 3/8"

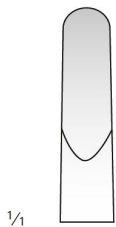


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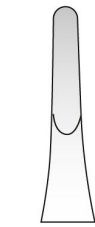




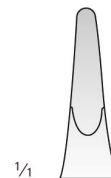
**Bone Rongeurs**  
Hohlmeißelzangen  
Pinzas gubias  
Pincès-gouges  
Pinze-sgorbie



**V12-375-24**



**V12-376-24**

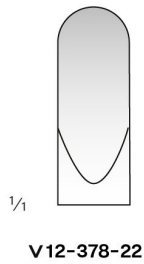


**Frykholm**  
**V12-377-24**  
24,5 cm / 9 5/8"

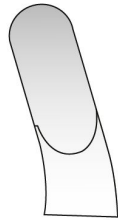
**Leksell-Stille**  
**V12-375-24**  
**V12-376-24**  
24,5 cm / 9 5/8"

**Bone Rongeurs**

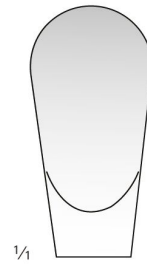
Hohlmeißelzangen  
Pinzas gubias  
Pincès-gouges  
Pinze-sgorbie



**V12-378-22**



**V12-379-22**



**V12-380-23**  
23 cm / 9"

**V12-380-27**  
27 cm / 10 5/8"



**V12-381-23**  
23 cm / 9"

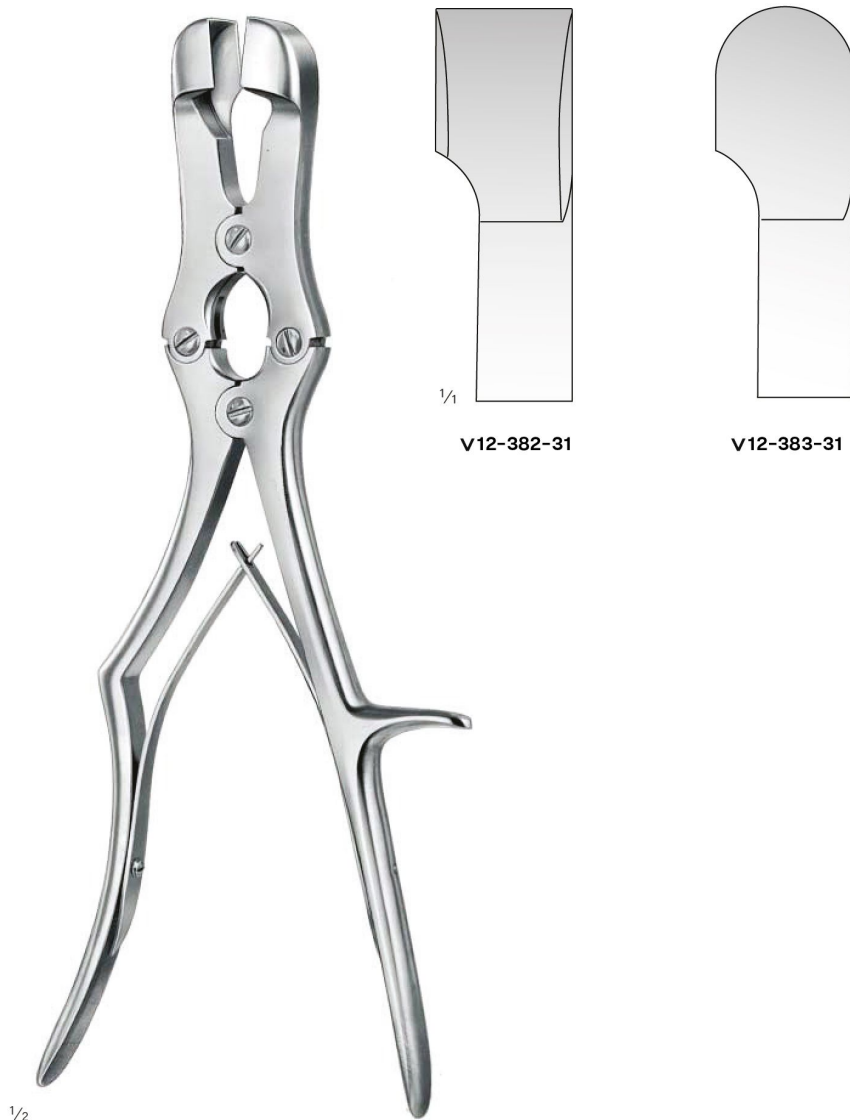
**V12-381-27**  
27 cm / 10 5/8"



**Stille-Luer**  
V 12-378-22  
V 12-379-22  
22,5 cm / 8 7/8"

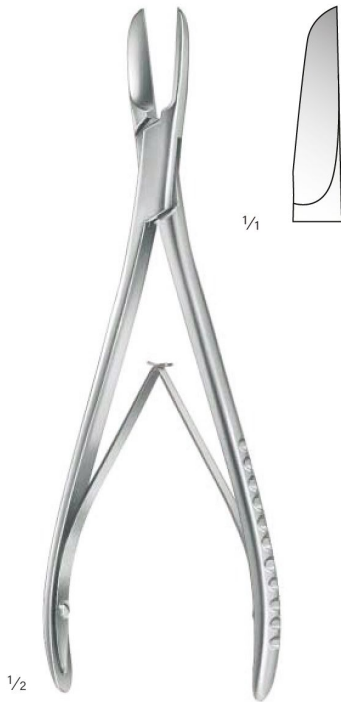
**Stille-Luer**  
V 12-380-23  
V 12-381-27

**Bone Rongeurs**  
Hohlmeißelzangen  
Pinzas gubias  
Pincès-gouges  
Pinze-sgorbie



$\frac{1}{2}$   
**Sauerbruch**  
**V12-382-31**  
**V12-383-31**  
31 cm / 12  $\frac{2}{8}$ "

**Bone Cutting Forceps**  
 Knochensplitterzangen  
 Pinzas cortantes para hueso  
 Pincers coupantes à os  
 Cesioie per ossa



**Cottle-Kazanjan**  
**V12-384-19**  
 19 cm / 7 4/8"



**Liston**  
**V12-385-14**  
**V12-385-22**



**Liston**  
**V12-386-14**  
**V12-386-22**



**V12-385-14**  
 14 cm / 5 4/8"



**V12-385-17**  
 17 cm / 6 5/8"



**V12-385-20**  
 20 cm / 7 7/8"



**V12-385-22**  
 22 cm / 8 5/8"



**V12-386-14**  
 14 cm / 5 4/8"



**V12-386-17**  
 17 cm / 6 5/8"

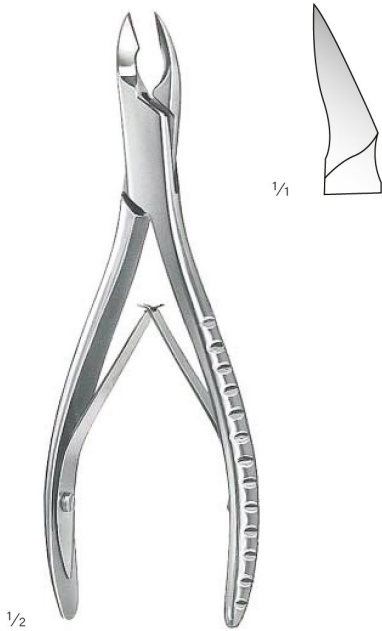


**V12-386-20**  
 20 cm / 7 7/8"



**V12-386-22**  
 22 cm / 8 5/8"

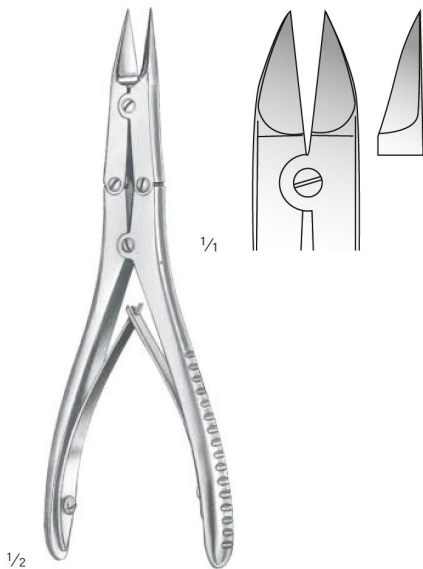
**Bone Cutting Forceps**  
 Knochensplitterzangen  
 Pinzas cortantes para hueso  
 Pincas coupantes à os  
 Cesioie per ossa



**Cleveland**  
**V12-387-17**  
 17 cm / 6 5/8"



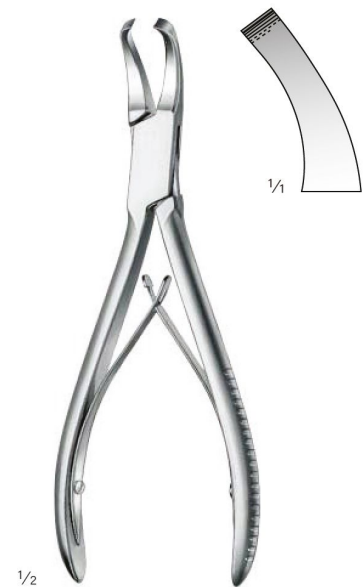
**Cleveland**  
**V12-388-14**  
 14,5 cm / 5 7/8"



**Böhler**  
**V12-389-14**  
 14,5 cm / 5 7/8"

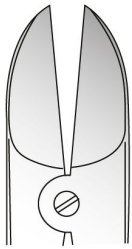


**Böhler**  
**V12-390-14**  
 14,5 cm / 5 7/8"



**Cleveland**  
**V12-391-17**  
 17 cm / 6 5/8"

**Bone Cutting Forceps**  
 Knochensplitterzangen  
 Pinzas cortantes para hueso  
 Pincas coupantes à os  
 Cesioie per ossa



1/2

**Ruskin-Liston**  
**V12-392-18**  
**V12-392-19**



1/4

**V12-392-19**  
 19 cm / 7 5/8"

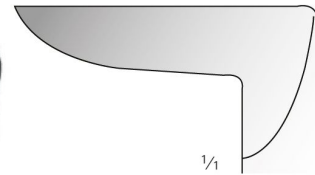


**V12-392-18**  
 18,5 cm / 7 2/8"



1/2

**Stille-Liston**  
**V12-393-26**  
 26 cm / 10 2/8"



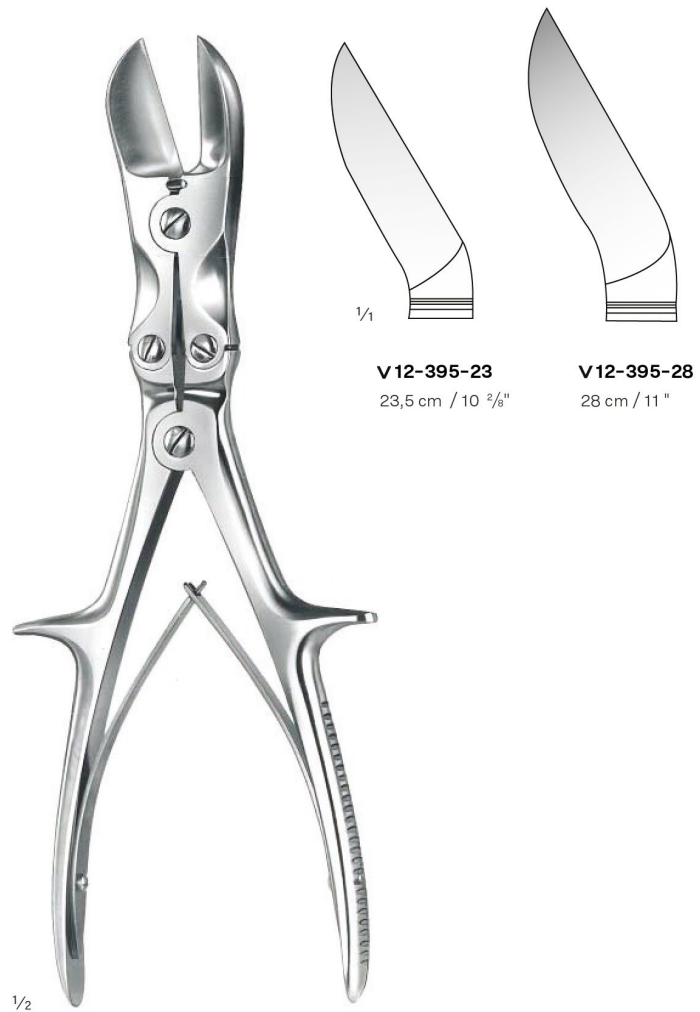
1/4



**Bone Cutting Forceps**  
Knochensplitterzangen  
Pinzas cortantes para hueso  
Pinces coupantes à os  
Cesoie per ossa



**Stille-Liston**  
**V12-394-28**  
28 cm / 11 "



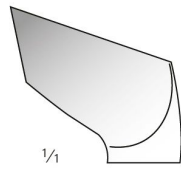
**Stille-Liston**  
**V12-395-23**  
**V12-395-28**

**Bone Cutting Forceps**  
Knochensplitterzangen  
Pinzas cortantes para hueso  
Pincas coupantes à os  
Cesoie per ossa



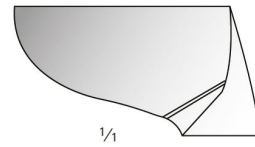
$\frac{1}{2}$

**Liston-Key**  
**V12-396-26**  
26 cm / 10  $\frac{2}{8}$ "



$\frac{1}{2}$

**Semb**  
**V12-397-24**  
24,5 cm / 9  $\frac{5}{8}$ "





**no one does it BETTER**



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