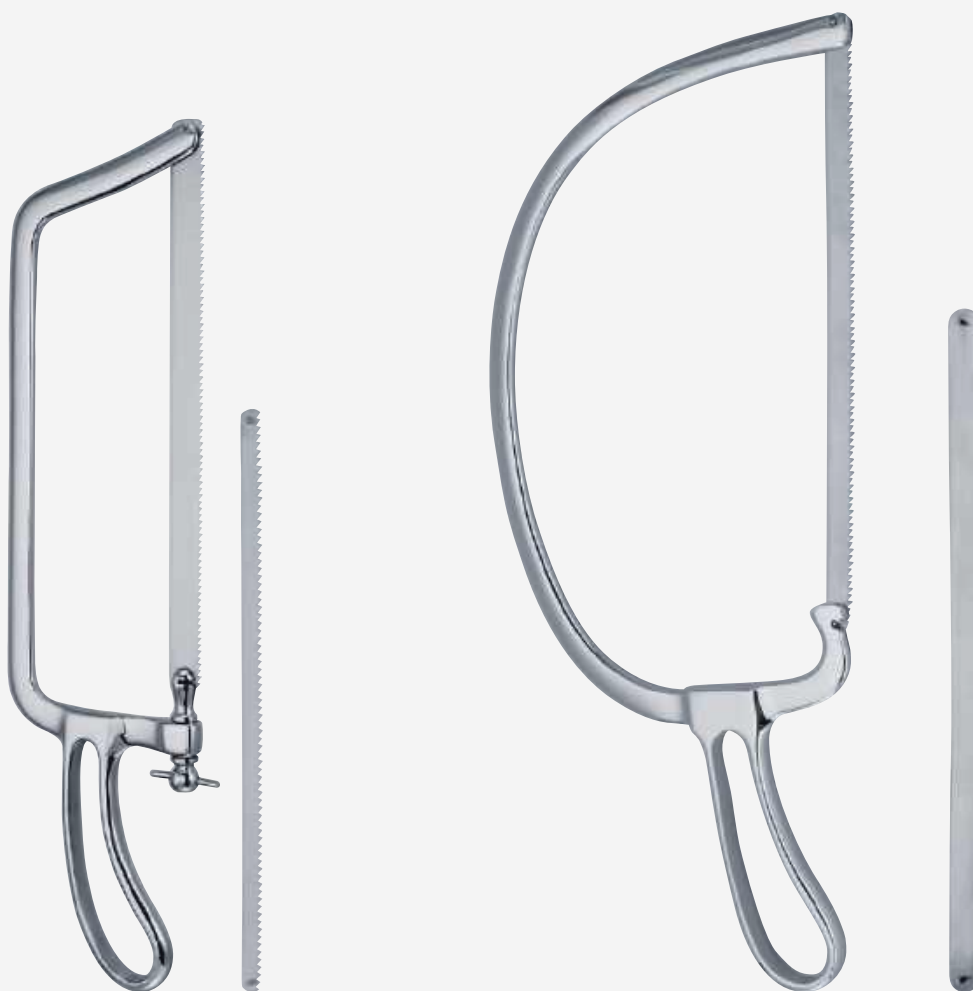




Bone surgery
Knochenchirurgie
Cirugía ósea
Chirurgie osseuse
Chirurgia ossea



Charriere

12-500-35
 35 cm - 13 3/4"

12-501-12 1.2 cm
 12-501-15 1.5 cm

Spare saw blades
 Ersatzsägeblätter
 Hojas de cambio
 Lames de rechange
 Lame di ricambio

HelferichBier

12-502-39
 39 cm - 15 1/2"

12-503-03 3 mm
 12-503-05 5 mm
 12-503-07 7 mm

Spare saw blades
 Ersatzsägeblätter
 Hojas de cambio
 Lames de rechange
 Lame di ricambio



Satterlee

12-504-31

31 cm - 12 1/4"



Langenbeck

12-505-23

23 cm - 9"



Charriere

12-506-27 27 cm - 10 3/4"

12-506-30 30 cm - 12"

12-506-34 34 cm - 13 1/2"



Putti
 Fig. 1
 12-507-27
 27 cm - 10 3/4"

Fig. 2
 12-508-30
 30 cm - 12"



Rasp
 Fig. 1
 12-509-28
 28 cm - 11"

semi circular
 halbrund
 semi-redonda
 semi-ronde
 semi-rotonda



Fig. 2
 12-510-24
 24.5 cm - 9 3/4"
 x = 13 mm

semi circular
 halbrund
 semi-redonda
 semi-ronde
 semi-rotonda



Fig. 3
 12-511-22
 22 cm - 8 3/4"
 x = 20 mm

flat
 flach
 plana
 plate
 piatta



Doyen

12-512-12 2.5 cmØ – 120 g

12-512-18 3.0 cmØ – 180 g

12-512-26 3.5 cmØ – 260 g

19.5 cm - 7 3/4"



Collin

12-513-20

20 cm - 8"

30 mmØ – 220 g

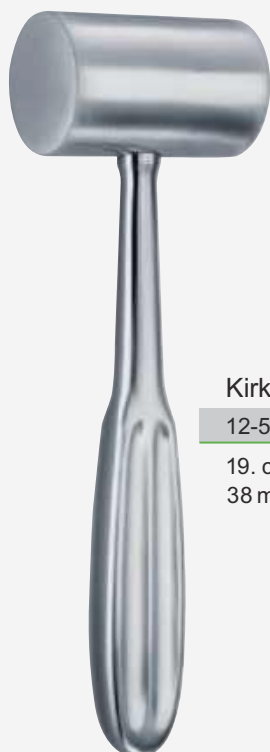


Hajek

12-514-21

21.5 cm - 8 1/2"

27 mmØ – 140 g



Kirk

12-515-19

19. cm - 7 1/2"

38 mmØ – 750 g



Partsch

12-516-18

18 cm - 7"

22 mmØ – 200 g



Lucae

12-517-19 19 mmØ – 230 g

12-517-25 25 mm Ø – 260 g

19 cm - 7 1/2"



Williger

12-518-16

16.5 cm - 6 1/2"

20 mm Ø - 140 g



Mead

12-519-17

17 cm - 6 3/4"

26 mmØ - 320 g

Steel solid, with plastic faces

Stahl massiv, mit Kunststoffbacken

Acero solido, con placas en plastica

Acier solid, avec plaques en plastique

Acciaio massiccio, con punte di plastica

12-520-17

Spare faces, 1 pair

Ersatzbacken, 1 Paar

Placas de cambio, 1 par

Plaques de rechange, 1 paire

Punte di ricambio, 1 paio



Bergmann

12-523-24

24.5 cm - 9 3/4"

45 mmØ - 300 g



Ombredanne

12-521-24

24 cm - 9 1/2"

40 mmØ - 550 g



Heath

12-522-18 40 mmØ - 700 g 18 cm - 7"

12-522-20 45 mmØ - 1000 g 20 cm - 8"

Copper filled head

Kupferfüllung

Llenado de cobre

Rempli de cuivre

Riempito di rame



Mead Modified

12-524-19

19 cm - 7 1/2"

250 mmØ - 205 g

Solid steel, with plastic faces

Massiver Stahl, mit Kunststoffbacken

Acero solido, con placas en plastica

Acier solid, avec plaques en plastique

Acciaio massiccio, con punte di plastica

12-525-19

Spare faces, 1 pair

Ersatzbacken, 1 Paar

Placas de cambio, 1 par

Plaques de rechange, 1 paire

Punte di ricambio, 1 paio



Cottle

12-526-18

18.5 cm - 7 1/4"

30 mmØ - 240 g

1 side flat/1 side convex

1 Seite flach / 1 Seite convex

1 lado plano / 1 lado convexo

1 coté plat/ 1 coté convex

1 lato piatto/ 1 lato convesso



Williger

12-527-28 28 mmØ - 340 g

12-527-30 30 mm Ø - 400 g

24 cm - 9 1/2"

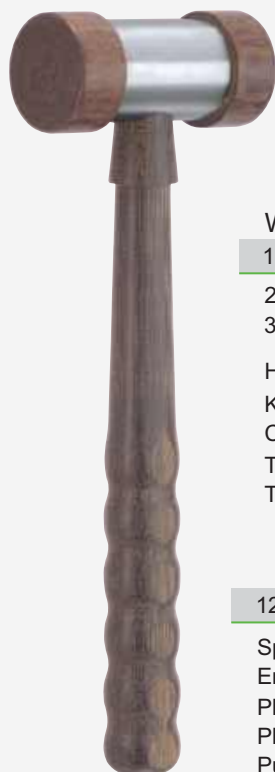
lead filled

bleigefüllt

llenado con plomo

rempli de plomb

riempito di piombo



Waze

12-528-22

22.5 cm - 8 ¾"
37 mmØ - 370 g

Head solid steel, with Ferrozell faces
Kopf massiver Stahl, mit Ferrozellbacken
Cabeza acero solido, con placas en Ferrozell
Tête acier solid, avec plaques en Ferrozell
Testa acciaio massiccio, con punte di Ferrozell

12-529-22

Spare faces, 1 pair
Ersatzbacken, 1 Paar
Placas de cambio, 1 par
Plaques de rechange, 1 paire
Punte di ricambio, 1 paio



Jonathan

12-530-24

24 cm - 9 ½"
30 mmØ - 480 g

Head solid steel, Ferrozell handle
Kopf massiver Stahl, mit Ferrozellstiel
Cabeza acero solido, con mango en Ferrozell
Tête acier solid, manche en matière Ferrozell
Testa acciaio massiccio, con manico di Ferrozell



Jonathan Modified

12-531-26

42 mmØ - 250 g

Ferozell, without lead
Ferozell, ohne Blei
Ferozell, sin plomo
Ferozell, sans plomb
Ferozell, senzo piombo

12-532-26 26 cm - 10 ¼"

42 mmØ - 400 g

Plastic, lead filled
Kunststoff, bleigefüllt
Plastico, llenado con plomo
Matière plastique, rempli de plomb
Plastica, riempito di piombo



Darson

12-533-26

26.5 cm - 10 ½"

30 mmØ - 450 g

12-534-26

26.5 cm - 10 ½"

50 mmØ - 900 g



12-535-18

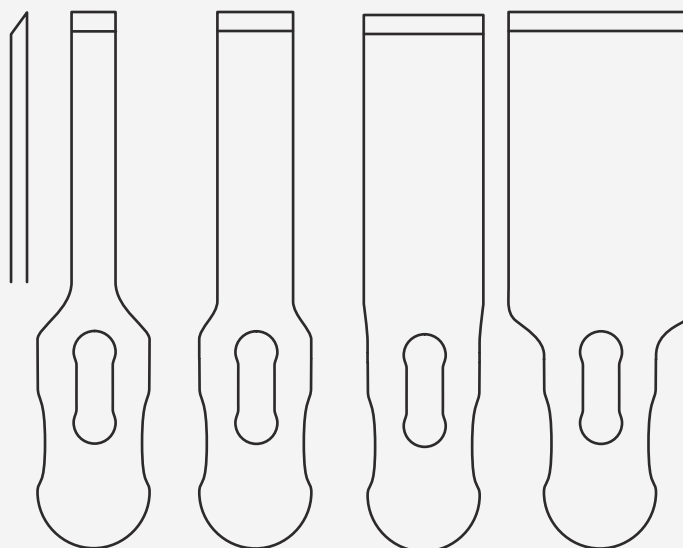
18.5 cm - 7 1/4"
Handle Only



12-540-09

9 cm - 3 1/2"

Key
Spannschlüssel
Llave
Clé
Chiave



Arrow

12-536-08

5 mm

12-537-08

10 mm

12-538-08

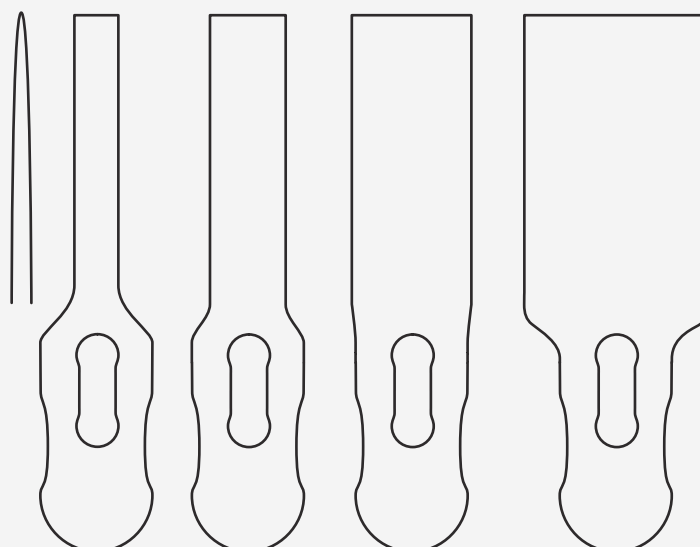
16 mm

12-539-08

25 mm

8.5 cm - 3 1/4"

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



12-541-08

5 mm

12-542-08

10 mm

12-543-08

16 mm

12-544-08

25 mm

8.5 cm - 3 1/4"

Osteotome blades, interchangeable
Osteotomklingen, auswechselbar
Hojas de osteótomo, intercambiables
Lames d'osteotomos interchangeables
Lame per osteotomia, intercambiabili

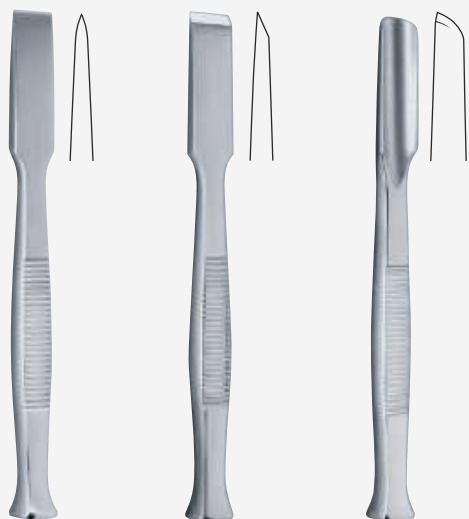
12-535-00 Complete set consisting:

12-535-18 Handle

12-540-09 Key

Chisel blades 12-536-08 to 12-539-08

Osteotome blades 12-541-08 to 12-544-08



Mourd

12-545-08	12-546-08	12-547-08	8 mm
12-545-10	12-546-10	12-547-10	10 mm
12-545-12	12-546-12	12-547-12	12 mm
12-545-14	12-546-14	12-547-14	14 mm
12-545-16	12-546-16	12-547-16	16 mm
13.5 cm - 5 1/4"	13.5 cm - 5 1/4"	13.5 cm - 5 1/4"	



Lucas

12-548-03	12-548-07	3 mm
12-548-04	12-548-08	4 mm
12-548-05	12-548-09	5 mm
12-548-06	12-548-10	6 mm

16 cm - 6 1/4"
Chisel
Flachmeißel
Cinzel
Ciseau burin
Scalpello

16 cm - 6 1/4"
Gouge
Hohlmeißel
Gubia
Gouge
Sgorbi

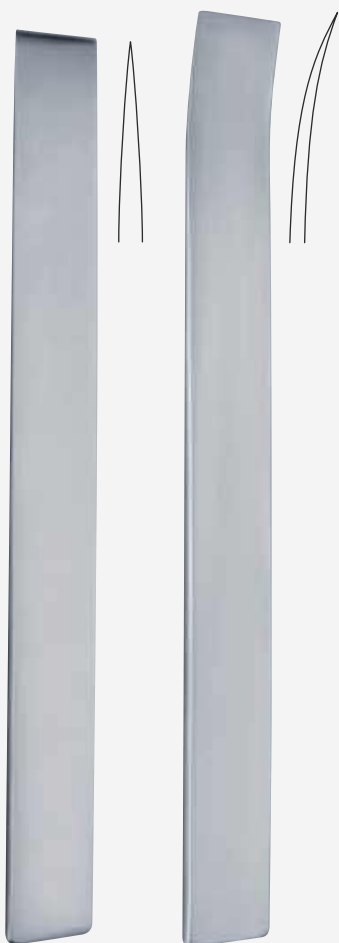


Partsch

12-549-02	12-550-02	12-551-02	2 mm
12-549-03	12-550-03	12-551-03	3 mm
12-549-04	12-550-04	12-551-04	4 mm
12-549-05	12-550-05	12-551-05	5 mm
12-549-06	12-550-06	12-551-06	6 mm
12-549-07	12-550-07	12-551-07	7 mm
12-549-08	12-550-08	12-551-08	8 mm
11.5 cm	13.5 cm	17 cm - 6 3/4"	



12-552-02	12-553-02	12-554-02	2 mm
12-552-03	12-553-03	12-554-03	3 mm
12-552-04	12-553-04	12-554-04	4 mm
12-552-05	12-553-05	12-554-05	5 mm
12-552-06	12-553-06	12-554-06	6 mm
12-552-07	12-553-07	12-554-07	7 mm
12-552-08	12-553-08	12-554-08	8 mm
11.5 cm	13.5 cm	17 cm - 6 3/4"	



Lambotte

12-555-06	12-556-06	6 mm
12-555-08	12-556-08	8 mm
12-555-10	12-556-10	10 mm
12-555-13	12-556-13	13 mm
12-555-15	12-556-15	15 mm
12-555-20	12-556-20	20 mm
12-555-25	12-556-25	25 mm
12-555-30	12-556-30	30 mm
12-555-38	12-556-38	38 mm
12-555-44	12-556-44	44 mm
12-555-50	12-556-50	50 mm

25 cm - 9 3/4"

25 cm - 9 3/4"



Mini-Lambotte

12-559-03	12-560-03	3 mm
12-559-04	12-560-04	4 mm
12-559-06	12-560-06	6 mm
12-559-08	12-560-08	8 mm
12-559-10	12-560-10	10 mm
12-559-12	12-560-12	12 mm
12-559-15	12-560-15	15 mm

12.5 cm - 5"

17 cm - 6 3/4"



Alexander

12-557-04	12-558-04	4 mm
12-557-06	12-558-06	6 mm
12-557-08	12-558-08	8 mm
12-557-10	12-558-10	10 mm
12-557-12	12-558-12	12 mm
12-557-14	12-558-14	14 mm

18 cm - 7"

18 cm - 7"



Lexer

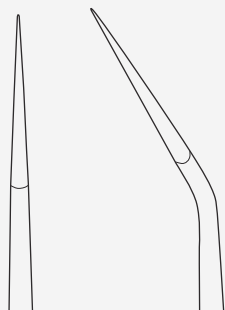
12-561-07	12-562-07	12-563-07	12-564-07	7 mm
12-561-10	12-562-10	12-563-10	12-564-10	10 mm
12-561-15	12-562-15	12-563-15	12-564-15	15 mm
12-561-20	12-562-20	12-563-20	12-564-20	20 mm
12-561-25	12-562-25	12-563-25	12-564-25	25 mm
12-561-30	12-562-30	12-563-30	12-564-30	30 mm
22 cm - 8 3/4"	30 cm - 12"	22 cm - 8 3/4"	30 cm - 12"	

Ferrozell handle
Ferrozellgrif
Mango en Ferrozell
Manche en Ferrozell
Manico di Ferrozell

Mini-Lexer

12-565-04	12-566-04	4 mm
12-565-06	12-566-06	6 mm
12-565-08	12-566-08	8 mm
12-565-10	12-566-10	10 mm
12-565-12	12-566-12	12 mm
18 cm - 7"	18 cm - 7"	

Ferrozell handle
Ferrozellgrif
Mango en Ferrozell
Manche en Ferrozell
Manico di Ferrozell



Dahmen

12-200-04	12-201-04	12-202-04	12-203-04	4 mm
12-200-05	12-201-05	12-202-05	12-203-05	5 mm
12-200-06	12-201-06	12-202-06	12-203-06	6 mm
12-200-08	12-201-08	12-202-08	12-203-08	8 mm
12-200-10	12-201-10	12-202-10	12-203-10	10 mm
12-200-12	12-201-12	12-202-12	12-203-12	12 mm
12-200-15	12-201-15	12-202-15	12-203-15	15 mm
12-200-20	12-201-20	12-202-20	12-203-20	20 mm
12-200-22	12-201-22	12-202-22	12-203-22	22 mm
12-200-25	12-201-25	12-202-25	12-203-25	25 mm

30 cm - 11 3/4"
Osteotomes
straight

30 cm - 11 3/4"
Osteotomes
angled

30 cm - 11 3/4"
Gouges
straight

30 cm - 11 3/4"
Gouges
angled

Ferrozell handle
Ferrozellgrif
Mango en Ferrozell
Manche en Ferrozell
Manico di Ferrozell



Zielke

12-204-05	5.5 mm
12-204-09	9 mm

23 cm - 9"
Gouges
Ferrozell handle
Ferrozellgrif
Mango en Ferrozell
Manche en Ferrozell
Manico di Ferrozell



Cobb

12-205-27

12-205-27A

12-205-27B

12-205-27C

27 cm - 10 3/4"

8 mm

Ferrozell handle
Ferrozellgrif
Mango en Ferrozell
Manche en Ferrozell
Manico di Ferrozell



Danis

12-206-06	12-207-06	12-208-06	12-209-06	6 mm
12-206-09	12-207-09	12-208-09	12-209-09	9 mm
12-206-13	12-207-13	12-208-13	12-209-13	13 mm
12-206-16	12-207-16	12-208-16	12-209-16	16 mm
12-206-25	12-207-25	12-208-25	12-209-25	25 mm
12-206-32	12-207-32	12-208-32	12-209-32	32 mm
27.5 cm - 10 3/4"	27.5 cm - 10 3/4"	27.5 cm - 10 3/4"	27.5 cm - 10 3/4"	
Osteotomes straight	Osteotomes curved	Gouges straight	Gouges curved	



Capener

12-210-06	12-211-06	12-212-06	6 mm
12-210-09	12-211-09	12-212-09	9 mm
12-210-10	12-211-10	12-212-10	10 mm
12-210-11	12-211-11	12-212-11	11 mm
12-210-13	12-211-13	12-212-13	13 mm
12-210-15	12-211-15	12-212-15	15 mm
12-210-16	12-211-16	12-212-16	16 mm
12-210-19	12-211-19	12-212-19	19 mm
12-210-20	12-211-20	12-212-20	20 mm
12-210-25	12-211-25	12-212-25	25 mm
12-210-30	12-211-30	12-212-30	30 mm
12-210-32	12-211-32	12-212-32	32 mm
23.5 cm - 9 1/4"	23.5 cm - 9 1/4"	25 cm - 10"	
Gouges	Gouges	Gouges	

Ferrozell handle
Ferrozellgrif
Mango en Ferrozell
Manche en Ferrozell
Manico di Ferrozell



Stille

12-567-10	12-568-10	12-569-10	12-570-10	12-571-10	10 mm
12-567-15	12-568-15	12-569-15	12-570-15	12-571-15	15 mm
12-567-20	12-568-20	12-569-20	12-570-20	12-571-20	20 mm
12-567-25	12-568-25	12-569-25	12-570-25	12-571-25	25 mm
20 cm - 8"	20 cm - 8"	20 cm - 8"	20 cm - 8"	20 cm - 8"	



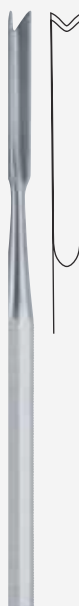
Smith-Petersen

12-572-06	12-573-06	12-574-06	12-575-06	6 mm
12-572-09	12-573-09	12-574-09	12-575-09	9 mm
12-572-13	12-573-13	12-574-13	12-575-13	13 mm
12-575-16	12-573-16	12-574-16	12-575-16	16 mm
12-575-19	12-573-19	12-574-19	12-575-19	19 mm
12-575-25	12-573-25	12-574-25	12-575-25	25 mm
12-575-32	12-573-32	12-574-32	12-575-32	32 mm
20 cm - 8"	20 cm - 8"	20 cm - 8"	20 cm - 8"	



Hibbs

12-576-06	12-577-06	12-578-06	12-579-06	12-580-06	6 mm
12-576-13	12-577-13	12-578-13	12-579-13	12-580-13	13 mm
12-576-19	12-577-19	12-578-19	12-579-19	12-580-19	19 mm
12-576-25	12-577-25	12-578-25	12-579-25	12-580-25	25 mm
12-576-32	12-577-32	12-578-32	12-579-32	12-580-32	32 mm
24 cm - 9 1/2"	24 cm - 9 1/2"	24 cm - 9 1/2"	24 cm - 9 1/2"	24 cm - 9 1/2"	



**Mannerfelt
modif.**

12-584-03	12-585-03	3 mm
12-584-04	12-585-04	4 mm
12-584-06	12-585-06	6 mm
12-584-08	12-585-08	8 mm
15.5 cm - 6"	15.5 cm - 6"	
Osteotomes	Gouge	
Osteotome	Hohlmeißel	
Osteótomos	Gubia	
Ostéotomes	Gouge	
Osteotomi	Sgorbio	

Freer

12-581-15

15 cm - 6"
6 mm
Gouge
Hohlmeißel
Gubia
Gouge
Sgorbio

Freer

12-582-16

16 cm - 6 1/4"
4 mm
Chisel
Flachmeißel
Cinzel
Ciseau-burin
Scalpello

Ballenger

12-583-04 4 mm

12-583-06 6 mm

12-583-08 8 mm

16 cm - 6 1/4"

Chisels, osteotomes for rhinoplastic
 Meißel zur Nasenplastik
 Cinceles para rinoplastica
 Ostéotomes, ciseaux-burins pour rhinoplastique
 Scalpelli, osteotomi per rinoplastico



Kilian

12-586-16

16 cm - 6 1/4"
 5 mm



Kilian-
Claus

12-587-16

16 cm - 6 1/4"
 5 mm



Cottle

12-588-07

7 mm

12-588-12

12 mm

15 cm - 6"



Cottle

12-589-19

19 cm - 7 1/2"
 4 mm



12-590-18

18 cm - 7"
 6 mm



Fomon

12-591-17

4 mm



12-592-17

5 mm



12-593-17

6 mm



12-594-17

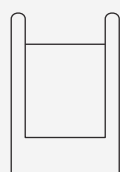
7 mm



12-595-17

8 mm

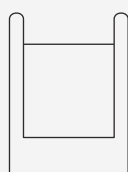
17 cm - 6 3/4"



Cinelli

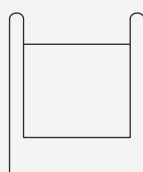
12-596-18

10 mm



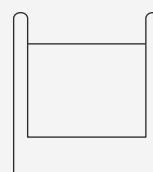
12-597-18

12 mm



12-598-18

14 mm



12-599-18

16 mm

18 cm - 7"



Cottle

12-600-18

4 mm



12-601-18

7 mm



12-602-18

9 mm



12-603-18

12 mm

18 cm - 7"



Cottle

12-604-18

4 mm



12-605-18

7 mm



12-606-18

9 mm



12-607-18

12 mm

18 cm - 7"

Chisels, osteotomes for rhinoplastic
 Meißel zur Nasenplastik
 Cinceles para rinoplastica
 Ostéotomes, ciseaux-burins pour rhinoplastique
 Scalpelli, osteotomi per rinoplastico



Cottle

12-608-18

6 mm



12-609-18

16 mm



12-610-18

16 mm

18 cm - 7"



Rubin

12-611-18

10 mm



12-612-18

12 mm



12-613-18

14 mm

18 cm - 7"



Cottle

12-614-20

4 mm

12-615-20

7 mm

12-616-20

9 mm

12-617-20

12 mm

20 cm - 8"



Walter

12-618-19

3 mm

12-619-19

4,5 mm

19 cm - 7 1/2"



Sheehan

12-620-16

2 mm

12-621-16

4 mm

12-622-16

6 mm

12-623-16

8 mm

16 cm - 6 1/4"

12-624-16

10 mm

12-625-16

12 mm

12-626-16

15 mm

12-627-16

18 mm

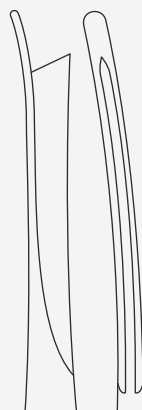
Chisels, osteotomes for rhinoplastic
 Meißel zur Nasenplastik
 Cinceles para rinoplastica
 Ostéotomes, ciseaux-burins pour rhinoplastique
 Scalpelli, osteotomi per rinoplastico



Silver

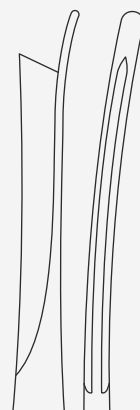
12-628-18

straight
gerade
recta
droit
retta



12-629-18

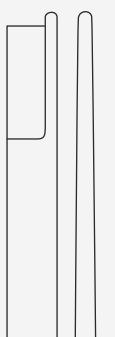
right
rechts
derecha
droite
destra



12-630-18

left
links
izquierda
gauche
sinistra

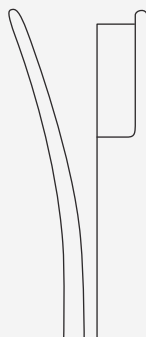
18 cm - 7"



Neivert-Anderson

12-631-20

straight
gerade
recta
droit
retta



12-632-20

right
rechts
derecha
droite
destra



12-633-20

left
links
izquierda
gauche
sinistra

20 cm - 8"



Obwegeser
12-634-23
23.5 cm - 9 1/4"
11 mm



Obwegeser
12-635-21
7 mm



12-636-21 21.5 cm - 8 1/2"
10 mm

Ferrozell handle
Ferrozellgrif
Mango en Ferrozell
Manche en Ferrozell
Manico di Ferrozell



Temper

12-637-15	12-638-15	12-639-15	12-640-15	12-641-15	12-642-15	12-643-15	15.5 cm - 6"
2 mm Ø	3 mm Ø	4 mm Ø	5 mm Ø	6 mm Ø	8 mm Ø	10 mm Ø	



Passow

12-644-12	12-645-12	12 cm - 4 3/4"
Fig.1 2.5 mm x 2.5 mm	Fig.2 3.5 mm x 3.5 mm	



Caspar

12-646-20	12-647-20	12-648-20	20 cm - 8"
3 mm Ø	5 mm Ø	8 mm Ø	

Ferrozell handle
Ferrozellgrif
Mango en Ferrozell
Manche en Ferrozell
Manico di Ferrozell



Temper Modified

12-649-20	12-650-20	12-651-20	20 cm - 8"
12 mm Ø	14 mm Ø	16 mm Ø	

Ferrozell handle
Ferrozellgrif
Mango en Ferrozell
Manche en Ferrozell
Manico di Ferrozell



Brill

12-262-03

3 mm

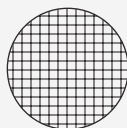
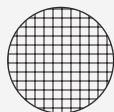
12-262-05

5 mm

12-262-08

8 mm

20 cm - 8"



12-263-12

12 mm

12-263-14

14 mm

12-263-16

16 mm

20 cm - 8"

Ferrozell handle

Ferrozellgrif

Mango en Ferrozell

Manche en Ferrozell

Manico di Ferrozell



Ivanio

12-264-03

3 x 8 mm

12-264-04

4 x 10 mm

29 cm - 11 1/2"



12-264-05

5 x 15 mm

12-264-06

6 x 20 mm

29 cm - 11 1/2"

Ferrozell handle

Ferrozellgrif

Mango en Ferrozell

Manche en Ferrozell

Manico di Ferrozell



Moston

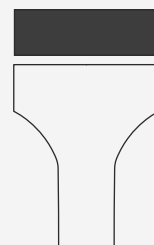
12-265-02

2 x 9 mm

12-265-06

6 x 9 mm

22.5 cm - 8 3/4"



12-265-03

3 x 16 mm

12-265-06

6 x 19 mm

22.5 cm - 8 3/4"



12-265-08

225.5 cm - 8 3/4"

Ø 8 mm




Volkmann

12-652-17

Fig.0000



12-653-17

Fig.000



12-654-17

Fig.00



12-655-17

Fig.0



12-656-17

Fig.1

17 cm - 6 3/4"



12-657-17

Fig.2



12-658-17

Fig.3



12-659-17

Fig.4



12-660-17

Fig.5



12-661-17

Fig.6

17 cm - 6 3/4"



Schede

12-662-17

Fig.000



12-663-17

Fig.00



12-664-17

Fig.0



12-665-17

Fig.1



12-666-17

Fig.2

17 cm - 6 3/4"



12-667-17

Fig.3



12-668-17

Fig.4

17 cm - 6 3/4"



Spratt

12-669-17

Fig.0000



12-670-17

Fig.000



12-671-17

Fig.00

17 cm - 6 3/4"



12-672-17

Fig.0



12-673-17

Fig.1



12-674-17

Fig.2

17 cm - 6 3/4"



12-675-17

Fig.3



12-676-17

Fig.4



12-677-17

Fig.5

17 cm - 6 3/4"



Bruns

12-678-16

Fig.000



12-679-16

Fig.00



12-680-16

Fig.0

16 cm - 6 1/4"



12-681-16

Fig.1



12-682-16

Fig.2



12-683-16

Fig.3

16 cm - 6 1/4"



12-684-16

Fig.4



12-685-16

Fig.5



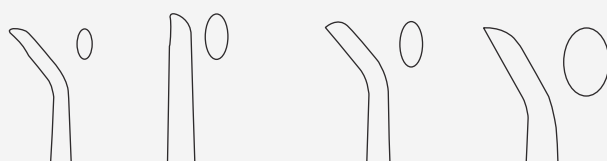
12-686-16

Fig.6



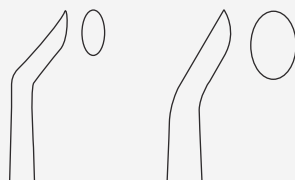
						
Volkman						
12-687-18	12-688-18	12-689-18	12-690-18	12-691-18	12-692-18	18.5 cm - 7 1/4"
Fig.0000	Fig.000	Fig.00	Fig.0	Fig.1	Fig.2	
				19 cm - 7 1/2"		
12-693-19	12-694-19	12-695-19	12-696-19			
Fig.3	Fig.4	Fig.5	Fig.6			
					27.5 cm - 10 3/4"	
12-697-27	12-698-27	12-699-27	12-700-27	12-701-27		
Fig.0	Fig.1	Fig.2	Fig.3	Fig.4		

oval, Ferrozell handle
oval, Ferrozellgrif
ovalada, Mango en Ferrozell
ovale, Manche en Ferrozell
ovale, Manico di Ferrozell



Brunns

12-213-43	12-214-43	12-215-43	12-216-43	43 cm - 17"
12-213-50	12-214-50	12-215-50	12-216-50	50 cm - 19 3/4"
2 mm	3 mm	3 mm	6 mm	



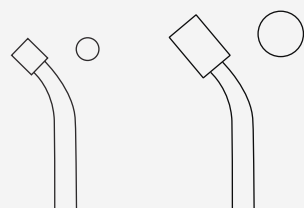
Epstein

12-217-43	12-218-43	43 cm - 17"
12-217-50	12-218-50	50 cm - 19 3/4"
3 mm	6 mm	



Scoville

12-219-50	50 cm - 19 3/4"
9 mm	



Cone

12-220-43	12-221-43	43 cm - 17"
12-220-50	12-221-50	50 cm - 19 3/4"
Ø 3 mm	Ø 6 mm	





Halle

12-702-21

Fig. 1

flexible
flexibel
flexible
flexible
flessibile



12-703-21

Fig.2



12-704-21

Fig.3

21 cm - 8 1/4"



Uffenorde

12-705-17

Fig.1



12-706-17

Fig.2

17 cm - 6 3/4"



Bruns

12-707-23

Fig.00



12-708-23

Fig.0



12-709-23

Fig.1



12-710-23

Fig.2

23 cm - 9"



12-711-23

Fig.3

solid
massiv
macizo
solide
massicio



12-712-23

Fig.4



12-713-23

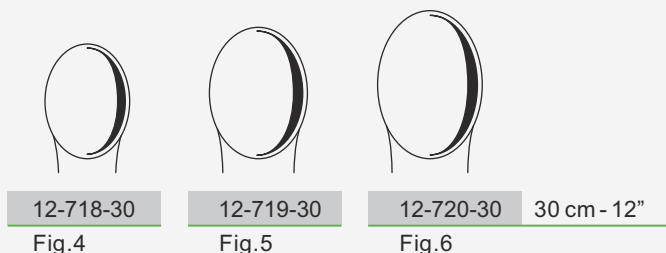
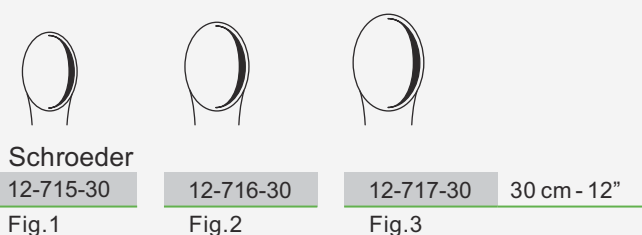
Fig.5



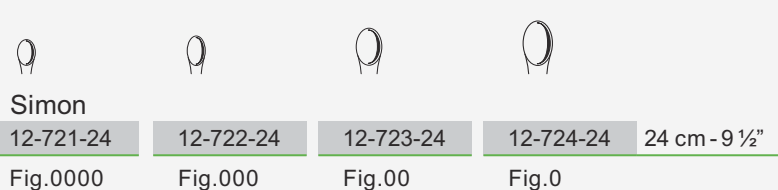
12-714-23

Fig.6

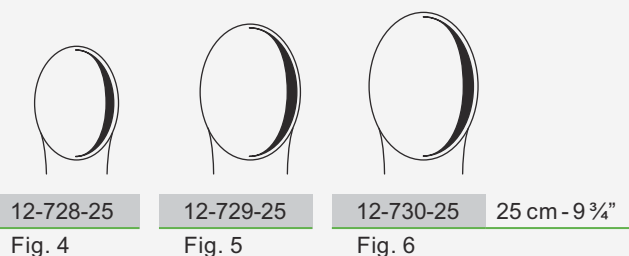
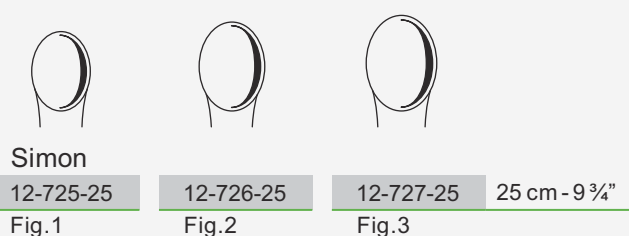
23 cm - 9"



sharp / rigid
scharf / fest
tranchante / rigide
cortante / rigida
tagliente / rigido



sharp / rigid
scharf / fest
cortante / rigida
tranchante / rigide
tagliente / rigido



sharp / rigid
scharf / fest
cortante / rigida
tranchante / rigide
tagliente / rigido



			
Akson			
12-731-20	12-732-20	12-733-20	20 cm - 8"
Fig.000	Fig.00	Fig.0	
			
12-734-20	12-735-20	12-736-20	20 cm - 8"
Fig.1	Fig.2	Fig.3	
			
12-737-20	12-738-20	12-739-20	20 cm - 8"
Fig.4	Fig.5	Fig.6	
straight			
gerade			
recta			
droit			
retto			



			
12-740-20	12-741-20	12-742-20	20 cm - 8"
Fig.000	Fig.00	Fig.0	
			
12-743-20	12-744-20	12-746-20	20 cm - 8"
Fig.1	Fig.2	Fig.3	
			
12-747-20	12-748-20	12-749-20	20 cm - 8"
Fig.4	Fig.5	Fig.6	
curved			
gebogen			
courbe			
curva			
curvo			



				
Miguel				
12-750-25	12-751-25	12-752-25	12-753-25	25 cm - 9 3/4"
Fig.000	Fig.00	Fig.0	Fig.1	
3.6 mm	4.4 mm	5.2 mm	6.8 mm	
straight				
gerade				
recta				
droit				
retto				

				
Daubenspeck				
12-754-20	12-756-20	12-757-20	12-758-20	20 cm - 8"
Fig.0000	Fig.000	Fig.00	Fig.0	
2.8 mm	3.6 mm	4.4 mm	5.2 mm	





Scoville

12-759-25

Fig.1

oval
oval
ovalada
ovale
ovale



12-760-25

Fig.2



12-761-25

Fig.3

25 cm - 9 3/4"



Lempert

12-762-21

Fig.00000

1.8 mm



12-763-21

Fig.0000

2.0 mm



12-764-21

Fig.000

2.4 mm



12-765-21

Fig.00

2.6 mm



12-766-21

Fig.0

2.8 mm

21.5 cm - 8 1/2"



Bruns

○	12-251-01	12-251-02	12-251-03	Fig. 000	23 cm - 9"
	3.3 mm	3.3 mm	3.3 mm		

○	12-252-01	12-253-02	12-254-03	Fig. 00	23 cm - 9"
	3.9 mm	3.9 mm	3.9 mm		

○	12-255-01	12-255-02	12-255-03	Fig. 0	23 cm - 9"
	4.7 mm	4.7 mm	4.7 mm		

○	12-256-01	12-256-02	12-256-03	Fig. 1	23 cm - 9"
	5.3 mm	5.3 mm	5.3 mm		

○	12-257-01	12-257-02	12-257-03	Fig. 2	23 cm - 9"
	6 mm	6 mm	6 mm		

○	12-258-01	12-258-02	12-258-03	Fig. 3	23 cm - 9"
	7.2 mm	7.2 mm	7.2 mm		

○	12-259-01	12-259-02	12-259-03	Fig. 4	23 cm - 9"
	8.2 mm	8.2 mm	8.2 mm		

○	12-260-01	12-260-02	12-260-03	Fig. 5	23 cm - 9"
	9.8 mm	9.8 mm	9.8 mm		

○	12-261-01	12-261-02	12-261-03	Fig. 6	23 cm - 9"
	12 mm	12 mm	12 mm		



Volkman
 Fig. 1

12-767-13

12-767-14

12-767-16

12-767-17

12-767-20

oval/oval
 oval/oval
 ovalada/ovalada
 ovale/ovale
 ovale/ovale



Fig. 2

12-768-13 13 cm - 5"

12-768-14 14 cm 5 1/2"

12-768-16 16 cm - 6 1/4"

12-768-17 17 cm - 6 3/4"

12-768-20 20 cm - 8"

round/oval
 rund/oval
 redonda/ovalada
 ronde/ovale
 rotondo/ovale

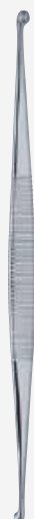


Fig. 3

12-769-21

21 cm - 8 1/4"

round/oval
 rund/oval
 redonda/ovalada
 ronde/ovale
 rotondo/ovale



Martini

12-770-13

Fig.00

Fig.0



12-771-13

Fig.0

Fig.1



12-772-13

Fig.1

Fig.2

13.5 cm - 5 1/4"



Martini

12-773-15

Fig.00

Fig.0



12-774-15

Fig.0

Fig.0



12-775-15

Fig. 1

Fig. 1

15.5 cm 6"



Williger

12-776-13

Fig.00

Fig.0



12-777-13

Fig.0

Fig.1



12-778-13

Fig.1

Fig.2

13.5 cm 5 1/4"



Williger

12-779-15

Fig.00

Fig.00



12-780-15

Fig.0

Fig.0

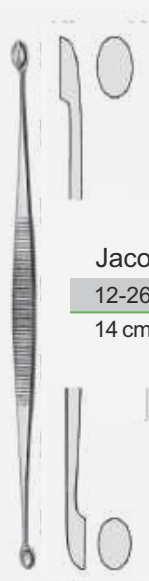


12-781-15

Fig. 1

Fig. 1

15.5 cm - 6"

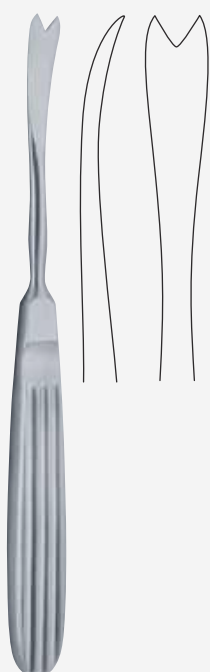


Jacobson

12-262-14

14 cm - 5 1/2"





Obwegeser
12-791-17
17.5 cm - 7"



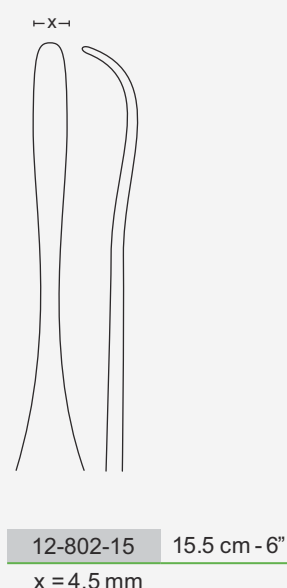
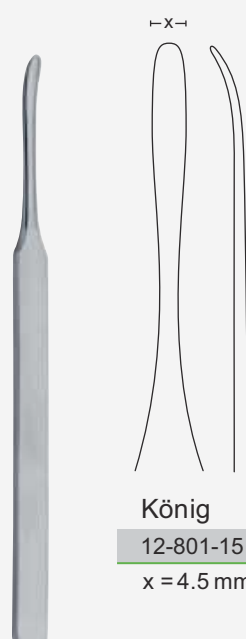
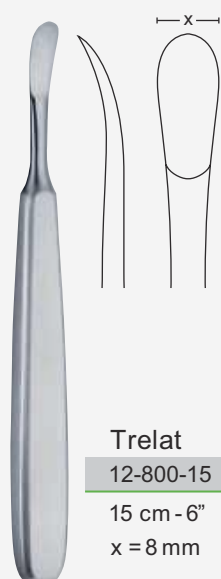
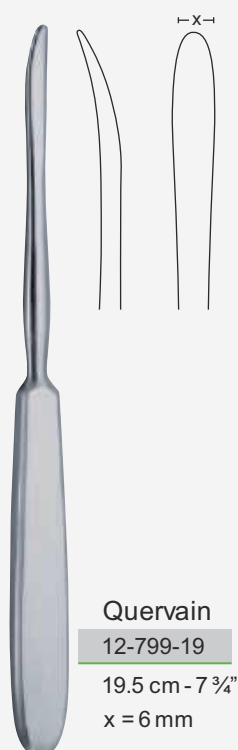
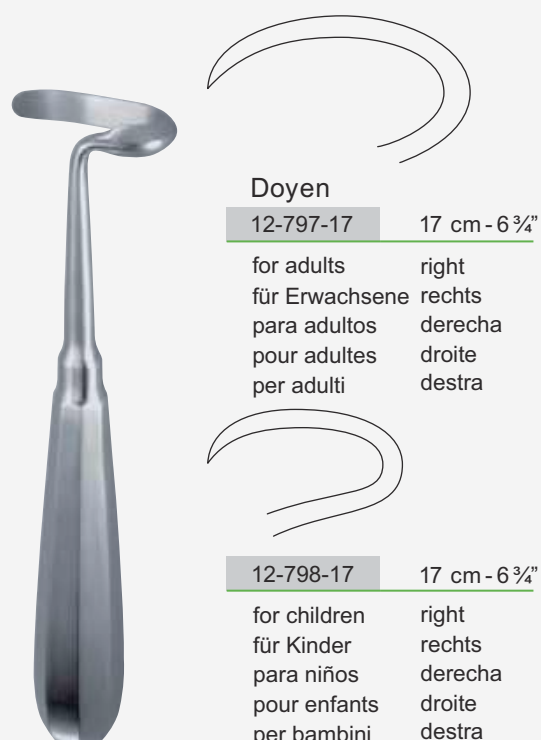
Obwegeser
12-792-23
23 cm - 9"



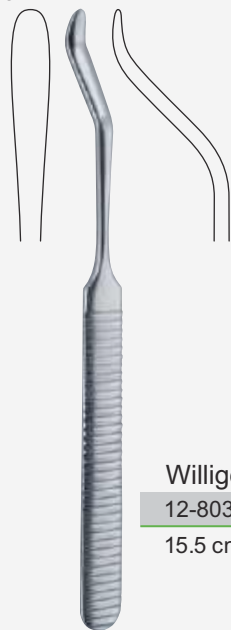
Obwegeser
12-793-18
18 cm - 7"



Obwegeser
12-794-14
14 cm - 5 1/2"



5 mm



Williger

12-803-15

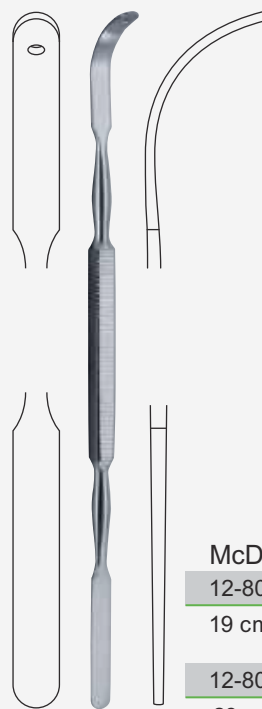
15.5 cm - 6"



Alderdyce

12-804-21

21 cm - 8 1/4"



McDonald

12-805-19

19 cm - 7 1/2"

12-805-23

23 cm - 9"
Less curved
Without hole

15 mm



Sedillot

12-806-18 18.5 cm - 7 1/4"

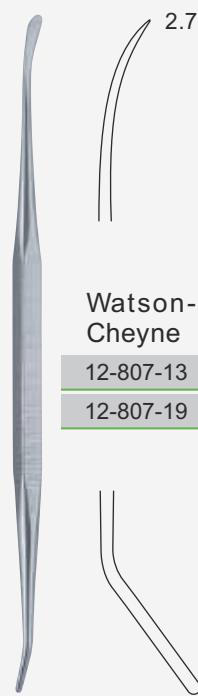
12-806-21 21 cm - 8 1/4"

2.7 mm

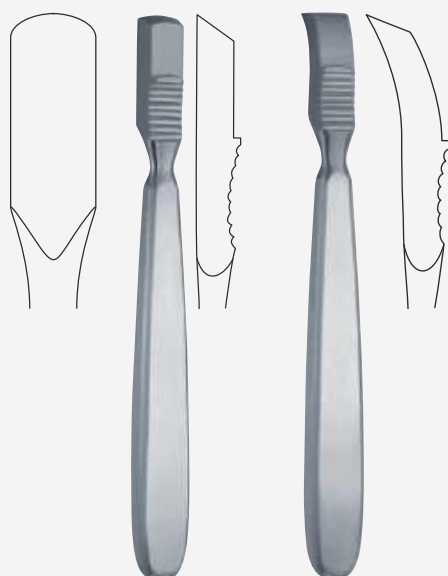
**Watson-
Cheyne**

12-807-13 13 cm - 5 1/4"

12-807-19 19 cm - 7 1/2"



2 mm



Farabeuf

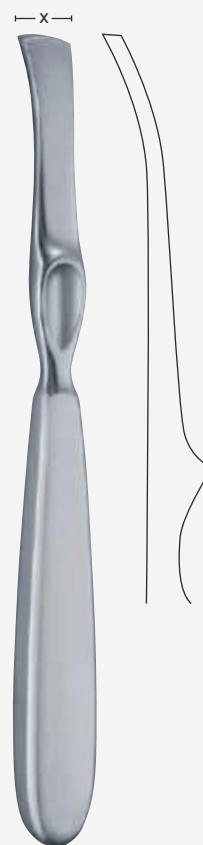
12-808-15

straight
 gerade
 recta
 droit
 retto

12-809-15

15 cm - 6"

curved
 gebogen
 curva
 courbe
 curvo



Lambotte

12-810-05

x = 5 mm

12-810-10

x = 10 mm

12-810-15

x = 15 mm

12-810-20

x = 20 mm

12-810-25

x = 25 mm

21 cm - 8 1/4"



Adson

12-811-17

Fig.1

12-812-17

Fig.2

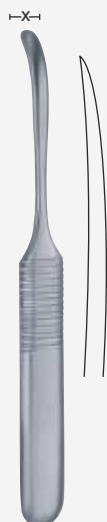
12-813-17

Fig.3

12-814-17

Fig.4

17 cm - 6 3/4"



Williger

12-815-13 13 cm - 5"

x = 5 mm

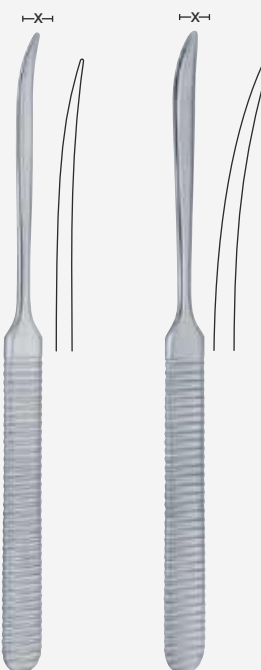


Williger

12-816-16 x = 4 mm

12-817-16 x = 6 mm

16 cm - 6 1/4"



Williger

12-818-16

x = 5 mm

12-819-16 16 cm - 6 1/4"

x = 6.5 mm



Farabeuf-
Collin

12-820-16

x = 11 mm



12-821-16 16 cm - 6 1/4"

x = 11 mm



Obwegeser

12-822-15

2.5 mm



12-823-15

4 mm



15 cm - 6"



Obwegeser

12-824-18

18.5 cm - 7 1/4"



Obwegeser

12-825-18

18.5 cm - 7 1/4"



Semb

12-826-17

17.5 cm - 7"
12 mm



12-827-21

21 cm - 8 1/4"
12 mm



12-828-17

17.5 cm - 7"
13 mm



12-829-21

21 cm - 8 1/4"
13 mm



12-830-22

22.5 cm - 8 3/4"
13 mm



12-831-22

22.5 cm - 8 3/4"
15 mm





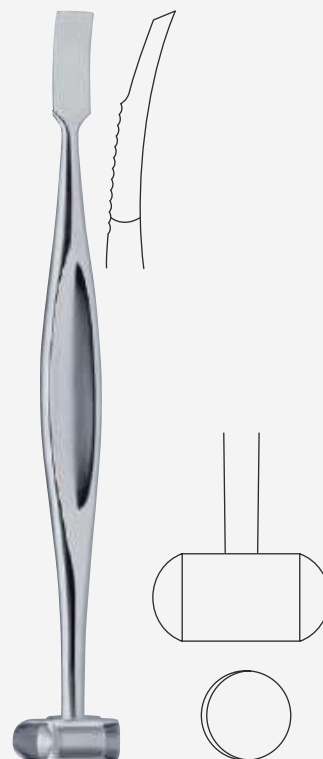
Howarth
12-832-21
21.5 cm - 8 ½"
sharp/ blunt
scharf/ stumpf
aguda/ roma
pointu / mousse
acuta / smussa



Langenbeck
12-833-18
18 cm - 7"



Langenbeck
12-834-19
19 cm - 7 ½"



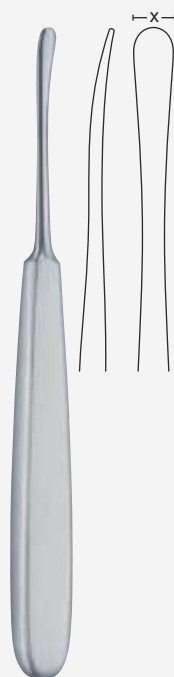
Alexander
12-835-20
20 cm - 8"



Langenbeck
12-836-20
x = 8 mm
20 cm - 8"



Langenbeck
12-837-20
x = 10 mm
20 cm - 8"



Sebileau
12-838-17
17.5 cm - 7"
x = 5 mm



extremely light
extrem leicht
extremamente ligero
extrêmement léger
estremamente leggera
Maxon
12-839-17
17.5 cm - 7"



Schneider
12-222-17
17.5 cm - 7"
13 mm



Schneider-Sauerbruch
12-223-19
19 cm - 7 1/2"
13 mm



Jansen
12-224-16
16.5 cm - 6 1/2"
15 mm



Cushing
12-225-19
19.5 cm - 7 3/4"
5 mm



left right
Jones
12-226-14 12-227-14 14 cm - 5 1/2"
4 mm 4 mm



Cushing-Hopkins

12-228-19

19 cm - 7 1/2"



Jones Modified

12-229-06 6 mm

12-229-08 8 mm

17 cm - 6 3/4"



Caspar

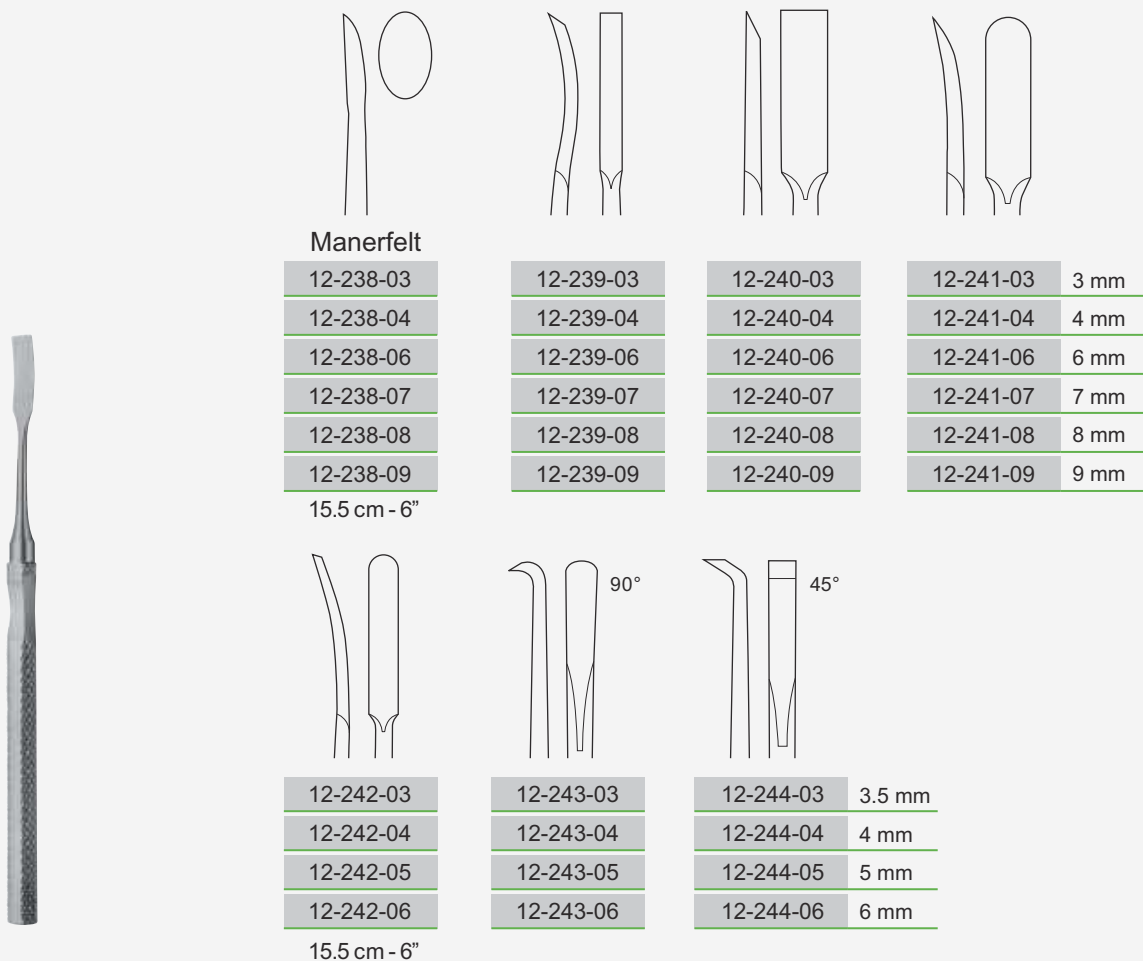
12-230-18

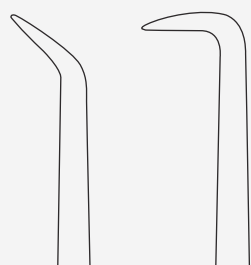
sharp
6,2 mm

12-231-18

blunt
6,2 mm

18 cm - 7"





angled, sharp

Vally

12-245-45

43 cm - 17"
45°

12-245-90

43 cm - 17"
90°



Cobb

12-246-06

43 cm - 17"
6 mm



12-247-06

50 cm - 19 3/4"
6 mm



12-247-10

50 cm - 19 3/4"
10 mm



12-247-13

50 cm - 19 3/4"
13 mm



Cobb

12-840-29 x = 10 mm

12-841-29 x = 13 mm

12-842-29 x = 19 mm

29 cm - 11 1/2"

Spinal raspatory
 Wirbelsäulen-Raspatorium
 Rugine vertebrae
 Raspatorio vertebral
 Periostotomo vertebral



Key

12-843-18

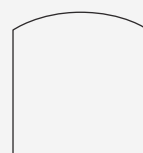
18 cm - 7"
x = 6 mm

12-844-19

19 cm - 7 1/2"
x = 10 mm

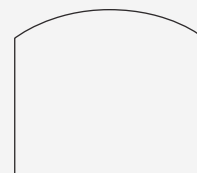
12-845-19

19 cm - 7 1/2"
x = 12 mm



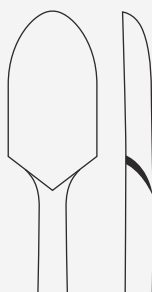
12-846-20

20 cm - 8"
x = 19 mm



12-847-21

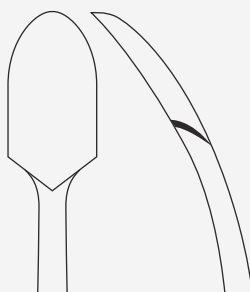
21 cm - 8 1/4"
x = 25 mm



Steger Round

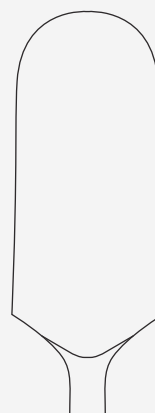
12-848-20

Fig. 1
14 mm
straight
gerade
droit
recta
rette



12-849-20

Fig. 2
14 mm
curved
gebogen
courbe
curva
curve

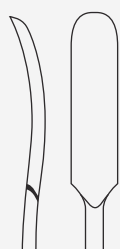


12-850-20

20 cm - 8"

Fig. 3
20 mm
gerade
straight
droit
recta
rette

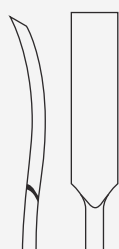
Ferrozell handle
Ferrozellgrif
Manche en Ferrozell
Mango en Ferrozell
Manico di Ferrozell



Steger Slim

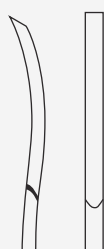
12-851-18

Fig. 1
6 mm
18 cm - 7"



12-852-18

Fig. 2
3 mm
18 cm - 7"



12-853-18

Fig. 3
6 mm
18 cm - 7"

Ferrozell handle
Ferrozellgrif
Mango en Ferrozell
Manche en Ferrozell
Manico di Ferrozell



Steger Angled

12-248-19

19 cm - 7 1/2"
angled
13 mm



12-249-19

19 cm - 7 1/2"
straight
13 mm



Hohmann

12-854-22

22 cm - 8 ¾"
x = 8 mm



12-855-22

24 cm - 9 ½"
x = 18 mm



12-856-24

24 cm - 9 ½"
x = 43 mm



12-857-24

24 cm - 9 ½"
x = 70 mm



Hohmann

12-858-24

24.5 cm - 9 ¾"
x = 43 mm

12-859-26

26 cm - 10 ¼"
x = 22 mm

12-860-28

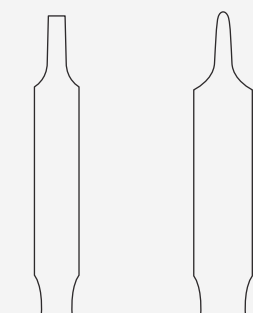
28 cm - 11"
x = 33 mm

12-861-26

26.5 cm - 10 ½"
x = 24 mm

12-862-26

26 cm - 10 ¼"
x = 22 mm



Mini-Hohmann

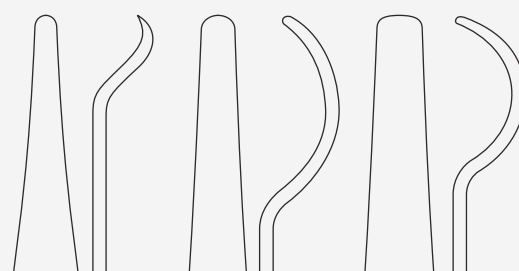
12-863-16

6 mm

12-864-16

8 mm

16 cm - 6 1/4"



Curvy

12-865-14

2.8 mm

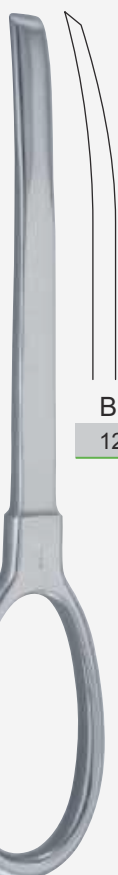
12-866-14

4.5 mm

12-867-14

6 mm

14 cm - 5 1/2"



Bristow

12-868-23

23 cm - 9"



Lane

12-869-21

21 cm - 8 1/4"



Bennett

12-870-24 x = 43 mm

12-871-24 x = 60 mm

24 cm - 9 1/2"

Murphy-Lane

12-872-34

34 cm - 13 1/2"

Luxation lever
Luxationshebel
Palanca de luxación
Levier de luxation
Leva per luxazione

Blount

12-873-26

Lane

12-874-26

26 cm - 10 1/4"

Lange-Hohmann mod.

12-875-26

26.5 cm - 10 1/2"

x = 30 mm

12-876-28

28 cm - 11"

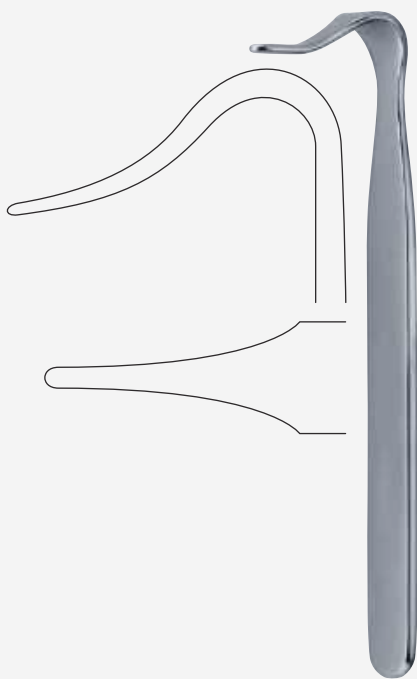
x = 33 mm



Hohmann-Williger

12-877-16

16 cm - 6 1/4"



Blount

12-878-17

17.5 cm - 7"



Taylor

12-879-16

a = 75 mm - b = 30 mm

12-880-16

a = 100 mm - b = 30 mm

16.5 cm - 6 1/2"

Meniscotomy knives
Meniskotome
Bisturios para meniscos
Bistouries à ménisques
Coltelli Meniscotomy



Bircher

12-881-19

19 cm - 7 1/2"



Smillie

12-882-17

17 cm - 6 3/4"

Fig. 1



12-883-17

17 cm - 6 3/4"

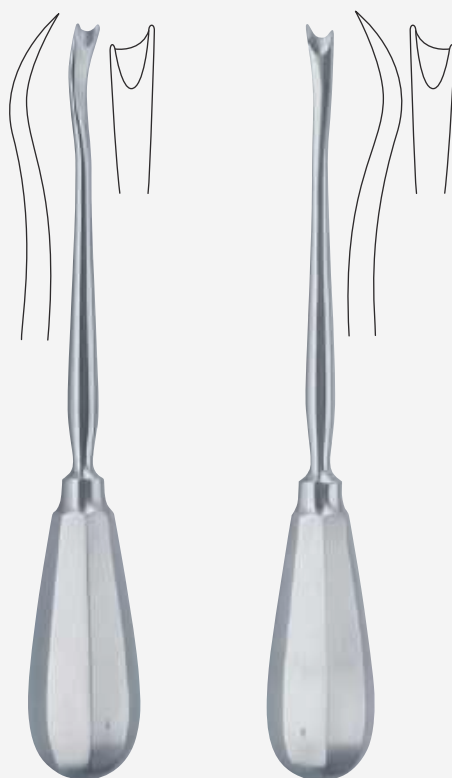
Fig. 2



12-884-17

17 cm - 6 3/4"

Fig. 3



Kanadisches Modell

12-885-20

Fig. 1

12-886-20

20 cm - 8"

Fig. 2



Neff

12-887-22

left
links
izquierda
gauche
sinistra



12-888-22

22 cm - 8 3/4"

right
rechts
derecha
droit
destra



Nilcon

12-889-18

18 cm - 7"





Wixon

12-890-23

4.0 mmØ

Malleable shaft

Schaft biegsam

Tige malléable

Tija maleable

Asta malleabile

12-891-23

4.5 mmØ

12-892-23

5.5 mmØ

23 cm - 9"



Bunnell

12-893-15

Fig.1

12-894-15

Fig.2

12-895-15

Fig.3

15 cm - 6"



12-896-15

Fig.4

12-897-15

Fig.5



Fischer

12-898-31

31 cm - 12 1/4"



Bunnell

12-899-23

23 cm - 9"

Tendon passer
Sehnendurchzugs-sonde
Sonde conductrice pour tendons
Sonda conductora de tendones
Sonda conduttrice per tendini

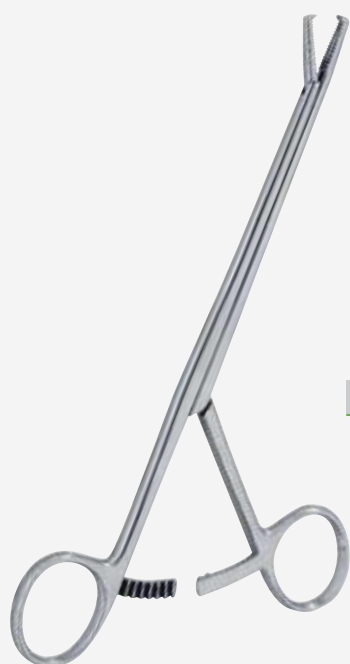


Kleinert-
Kutz

12-900-20

20 cm - 8"
20 mm Ø

Tendon holding forceps
 Sehnenfasszangen
 Pinzas para coger tendones
 Pincers pour saisir les tendons
 Tendine tenendo forcipe



Brand

12-901-15

15 cm - 6"



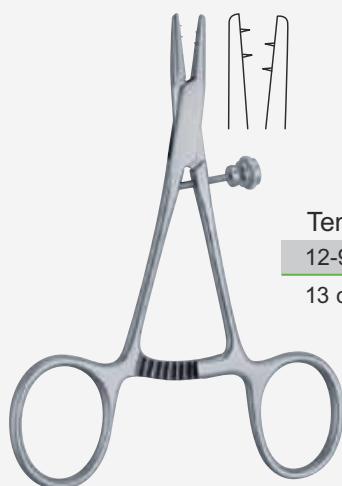
12-902-19

19 cm - 7 1/2"



12-903-24

24 cm - 9 1/2"



Tendon

12-904-13

13 cm - 5"



Tendon

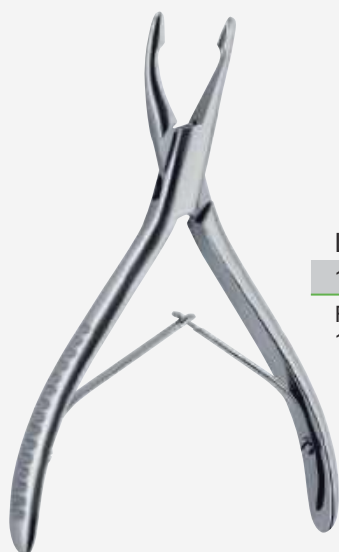
12-905-15

15 cm - 6"



12-906-15

15 cm - 6"



Luer

12-907-15

Fig. 1
15 cm - 6"



12-908-15

Fig. 2
15 cm - 6"



Luer

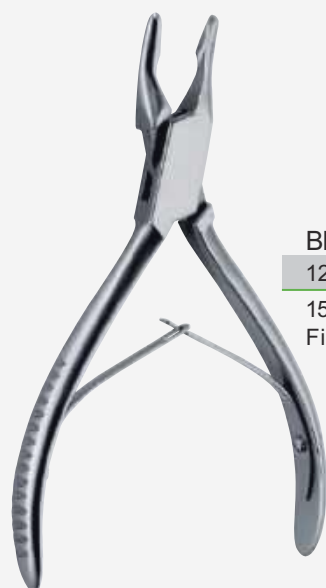
12-909-17

17 cm - 6 3/4"



12-910-17

17 cm - 6 3/4"



Blumenthal

12-911-15

15.5 cm - 6"
Fig. 1



12-912-15

15.5 cm - 6"
Fig. 2



12-913-15

15.5 cm - 6"
Fig. 3



Jansen

12-914-18

18 cm - 7"
Fig. 1



12-915-18

18 cm - 7"
Fig. 2



Mini-
Friedmann

12-916-12

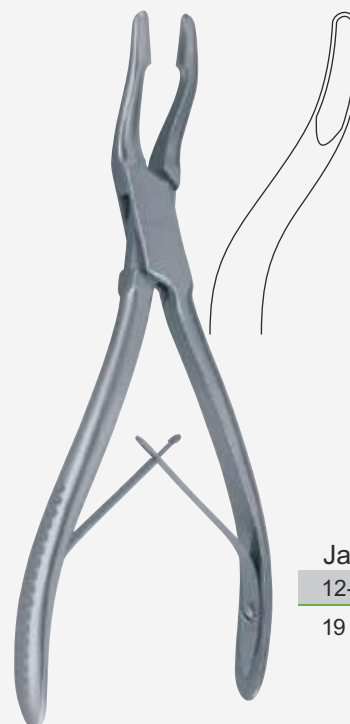
12 cm - 4 3/4"



Friedmann

12-917-14

14 cm - 5 1/2"



Jansen

12-918-19

19 cm - 7 1/2"



Adson

12-919-20

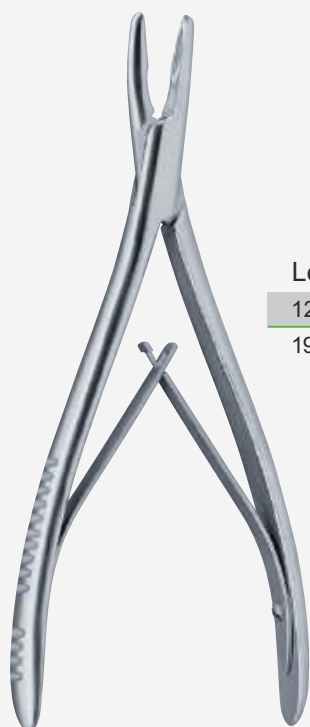
20 cm - 8"



Bacon

12-920-21

21 cm - 8 1/4"



Lempert

12-921-19

19 cm - 7 1/2"



12-922-19

19 cm - 7 1/2"



Stellbrink

12-923-17

17.5 cm - 7"

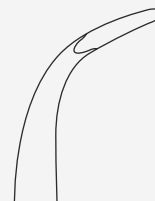
slightly curved

leicht gebogen

ligeramente curvada

légèrement courbe

legermente curvata



12-924-17

17.5 cm - 7"

strongly curved

stark gebogen

fuertemente curvada

très courbe

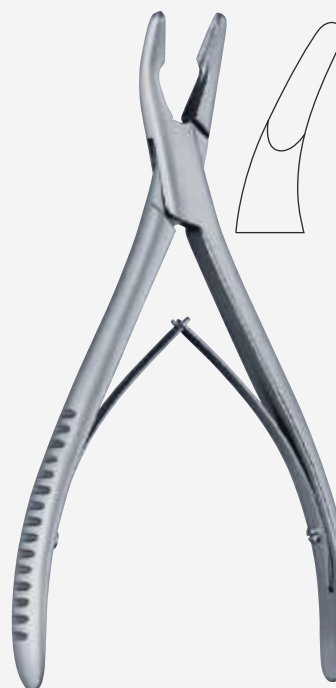
fortemente curvata



Olivecrona

12-925-20

20.5 cm - 8"



Hartmann

12-926-17

17.5 cm - 7"



Mead
12-927-16
16.5 cm - 6 ½"



Cleveland
12-928-17
17 cm - 6 ¾"



Cleveland
12-929-14
14 cm - 5 ½"



Böhler
12-930-15
15 cm - 6"



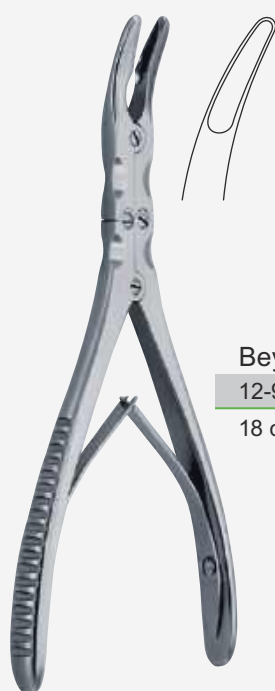
12-931-15
15 cm - 6"



Zaufal-Jansen
12-932-18
18 cm - 7"



Marquardt
12-933-20
20 cm - 8"



Beyer
12-934-18
18 cm - 7"



Ruskin
12-935-18
18 cm - 7"



12-936-18
18 cm - 7"



Mayfield
12-937-17
17.5 cm - 7"



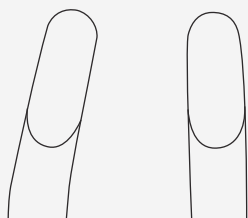
Stille-Ruskin

12-938-23

23 cm - 9"

12-939-23

23 cm - 9"



Stille

12-940-23

4 mm
23 cm - 9"

12-941-23

6 mm
23 cm - 9"

12-942-23

8 mm
23 cm - 9"



Leksell

12-943-24

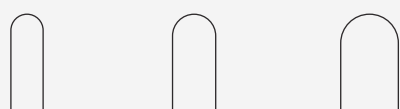
4 mm
24 cm - 9 1/2"

12-944-24

6 mm
24 cm - 9 1/2"

12-945-24

8 mm
24 cm - 9 1/2"



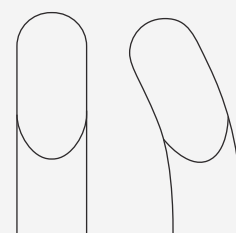
Stille-Luer

12-946-22

22 cm - 8 3/4"

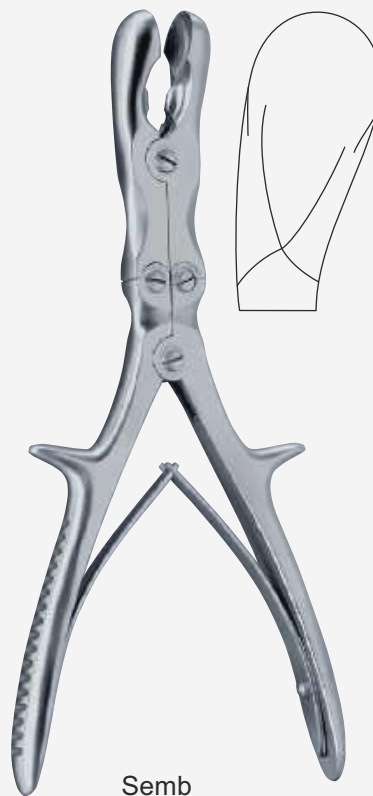
12-947-22

22 cm - 8 3/4"





**Röttgen-
Ruskin**
12-948-23
23 cm - 9"



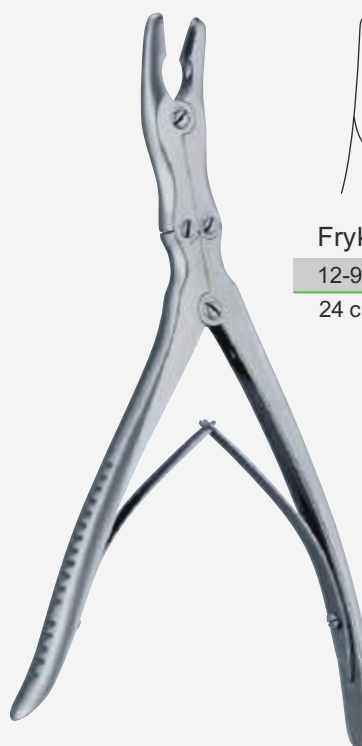
Semb
12-949-24
24 cm - 9 1/2"



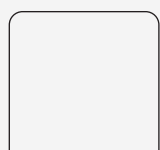
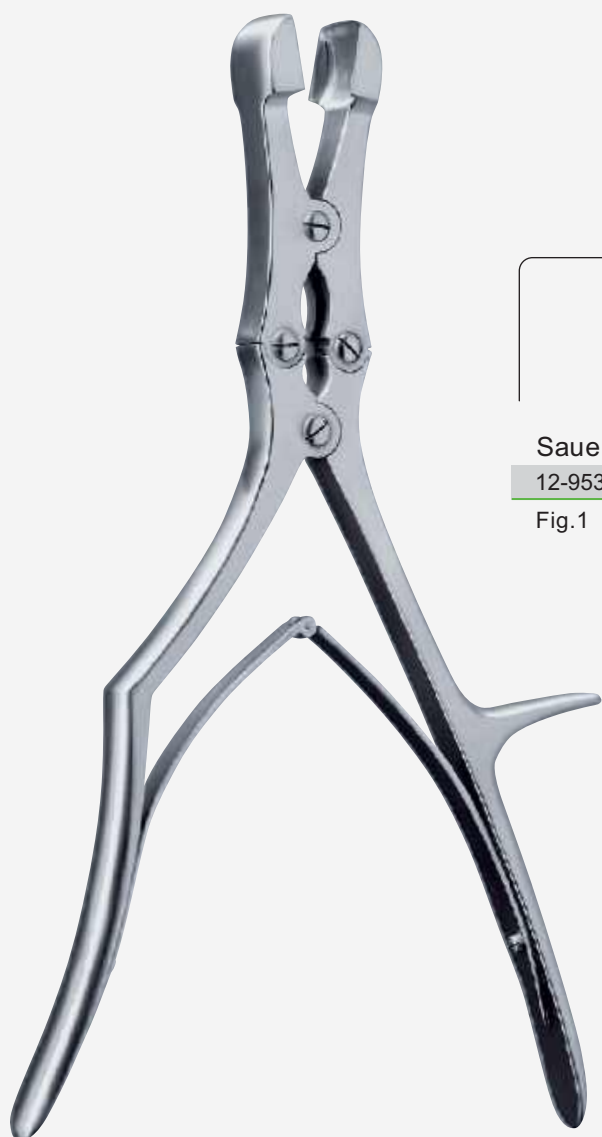
Echlin
12-950-23
23 cm - 9"



12-951-23
23 cm - 9"



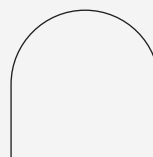
Frykholm
12-952-24
24 cm - 9 1/2"



Sauerbruch

12-953-30

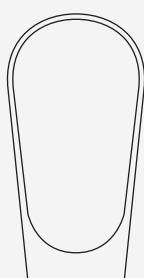
Fig.1



12-454-30

30 cm - 12"

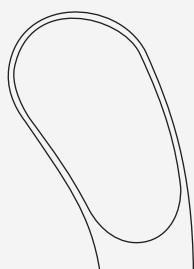
Fig.2



Luer-Stille

12-955-27

Fig. 1



12-956-27

27 cm - 10 3/4"

Fig. 2



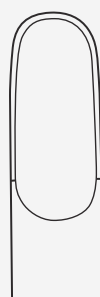


Syvert

12-250-08

36 cm - 14 1/4"

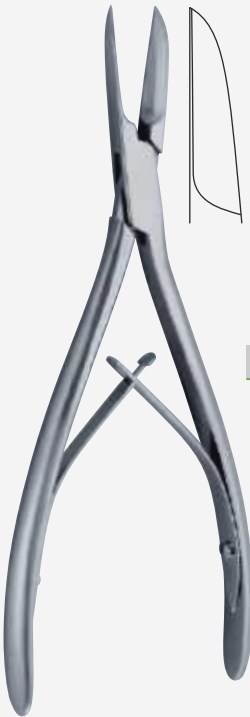
8 mm



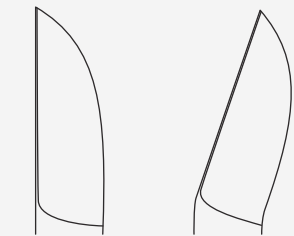
12-250-12

36 cm - 14 1/4"

12 mm

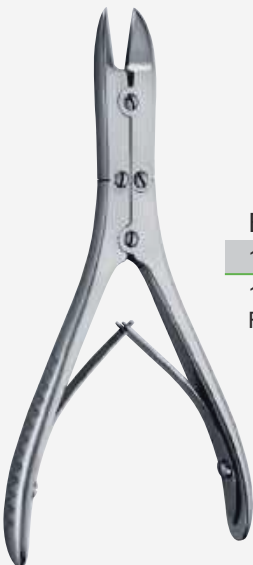


**Cottle-
Kazanjan**
12-957-19
19 cm - 7 1/2"



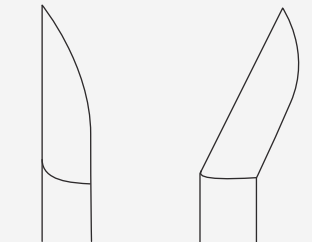
Liston

12-958-14	12-959-14	14 cm - 5 1/2"
12-958-17	12-959-17	17 cm - 6 3/4"
12-958-19	12-959-19	19 cm - 7 1/2"
12-958-22	12-959-22	22 cm - 8 3/4"



Bohler
12-960-16
15 cm - 6"
Fig. 1

12-961-16
15 cm - 6"
Fig. 2



**Ruskin-
Liston**

12-962-18 18.5 cm - 7 1/4" Fig. 1	12-963-18 18.5 cm - 7 1/4" Fig. 2
---	---



Stille-Liston

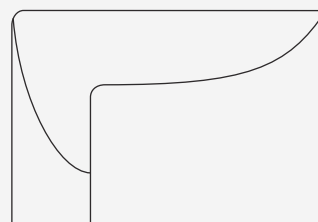
12-964-27

Fig. 1



12-965-27

Fig. 2



12-966-27

Fig. 3



Semb

12-967-24

24 cm - 9 1/2"

Liston-Key Horsley

12-968-27

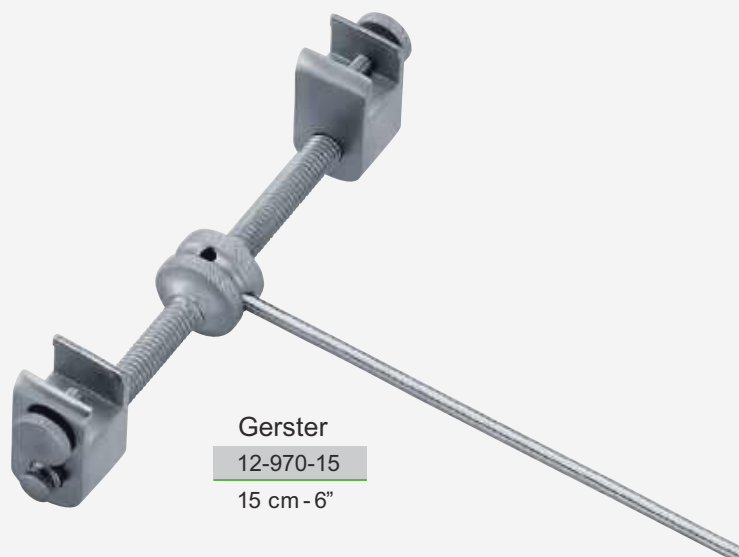
27 cm - 10 3/4"

Bone holding clamps – Bone holding forceps
 Knochenhalteklammern – Knochenhaltezangen
 Pinzas porta huesos – Pinzas para huesos
 Daviers à os – Daviers porte-os
 Bone in possesso di pinze - pinze d'osso



Gerster-Lowmann

12-969-18	18 cm - 7"	x = 28 mm
12-969-20	20 cm - 8"	x = 35 mm
12-969-22	22 cm - 8 ¾"	x = 40 mm



Gerster

12-970-15

15 cm - 6"

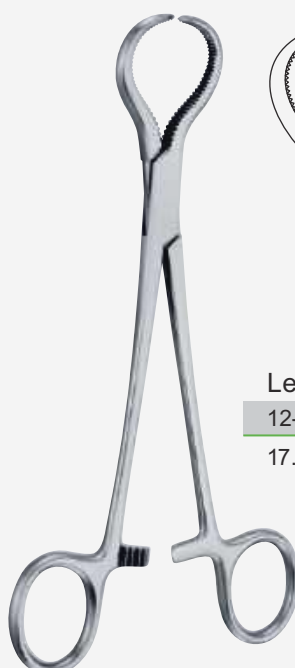
Bone holding forceps – Reposition forceps
 Knochenhalte- zangen – Repositionszangen
 Pinzas para huesos – Pinzas para reposición
 Daviers porte-os – Pincers de reposition
 Tenendo pinza Bone - Riposizionare forcipe



Gibway

12-971-13

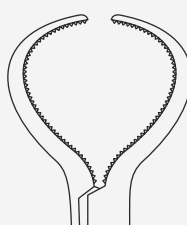
13.5 cm - 5 ¼"



Lewin

12-972-17

17.5 cm - 7"



Henry

12-973-14

14 cm - 5 ½"





Fergusson
12-974-21
21 cm - 8 1/4"



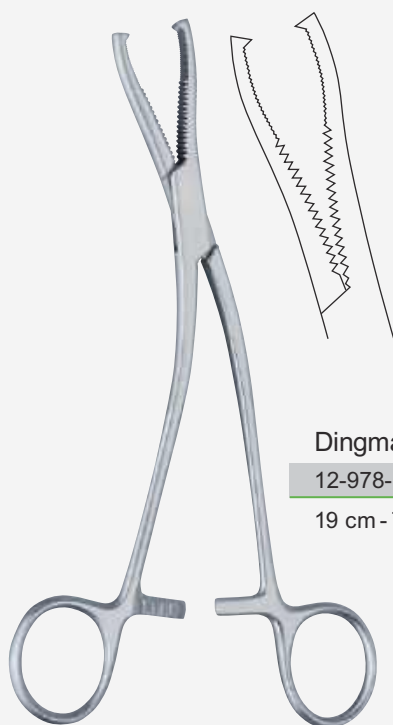
Van Buren
12-975-23
23 cm - 9"



Langenbeck
12-976-21
21 cm - 8 1/4"



Semb
12-977-19
19 cm - 7 1/2"

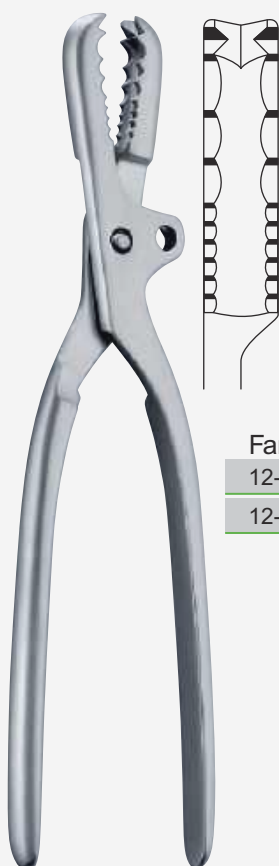


Dingmann
12-978-19
19 cm - 7 ½"



Bare
12-979-20 12-980-20 20 cm - 8"

Sequester forceps
Sequesterzange
Pinza para Sequesterum
Pince pour Sequesterum
Pinza per Sequesterum



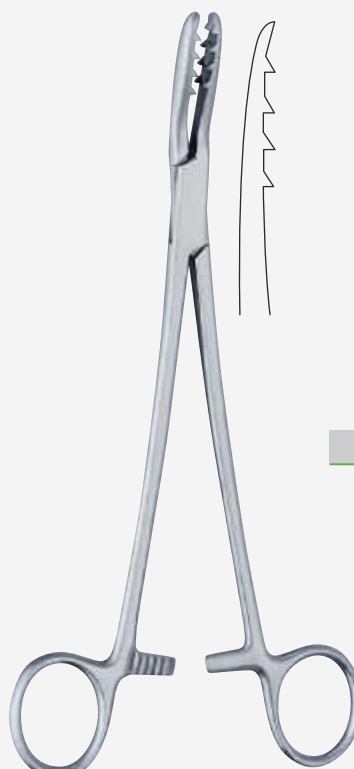
Farabeuf
12-981-23 23 cm - 9"
12-982-26 26 cm - 10 ¼"



Farabeuf-Lambotte
12-983-26 26 cm - 10 ¼"



Martin
12-984-19
19 cm - 7 1/2"



Bircher-Ganske

12-985-20

12-986-20

20 cm - 8"

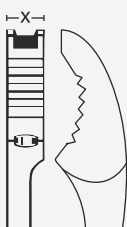


Hey Groves

12-987-21 21 cm - 8 1/4" x = 6.5 mm

12-987-27 27 cm - 10 3/4" x = 7.5 mm

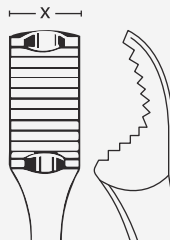
12-987-30 30.5 cm - 12" x = 8.5 mm



Verbrugge

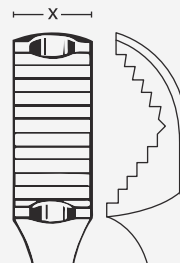
12-988-17

17.5 cm - 7"
x = 5.0 mm



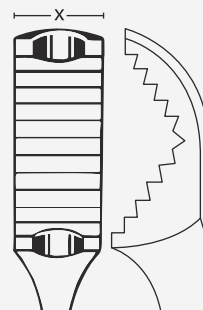
12-989-25

25 cm - 10"
x = 9.5 mm



12-990-26

26 cm - 10 1/4"
x = 10.5 mm



12-991-27

27 cm - 10 3/4"
x = 12.0 mm



Kern

12-992-17 17 cm - 6 3/4"

12-992-21 21 cm - 8 1/4"



Kern

12-993-17 17 cm - 6 3/4"

12-993-21 21 cm - 8 1/4"

Self-retaining



Lane

12-995-33 33 cm - 13"

12-995-45 45 cm - 17 3/4"



Lane

12-994-33 33 cm - 13"

12-994-45 45 cm - 17 3/4"

Self-retaining



Lambotte

12-996-22	22 cm - 8 ¾"
12-996-27	27 cm - 10 ¾"
12-996-30	30 cm - 12"

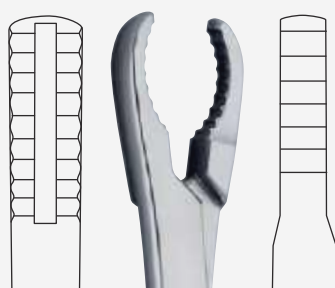
one jaw mobile
ein Maulteil beweglich
una boca movable
un mors mobile
una parte del morso mobile



Lumbart

12-997-15	15 cm - 6"	x = 2.5 mm
12-997-19	19 cm - 7 ½"	x = 6.5 mm
12-997-24	24 cm - 9 ½"	x = 9.5 mm
12-997-26	26 cm - 10 ¼"	x = 10.0 mm
12-997-28	28 cm - 11"	x = 11.0 mm

self-centering
selbstzentrierend
autocentrante
auto-centreur
autocentrante



Ulrich

12-998-23	12-999-23	23 cm - 9"
12-998-25	12-999-25	25 cm - 9 ¾"
12-998-28	12-999-28	28 cm - 11"

angular
kniegebogen
acodada
coudée
angolata



Carl

12-100-16	16 cm - 6 ¼"
12-100-24	24 cm - 9 ½"



Minipal
 12-101-13
 13.5 cm - 5 ¼"



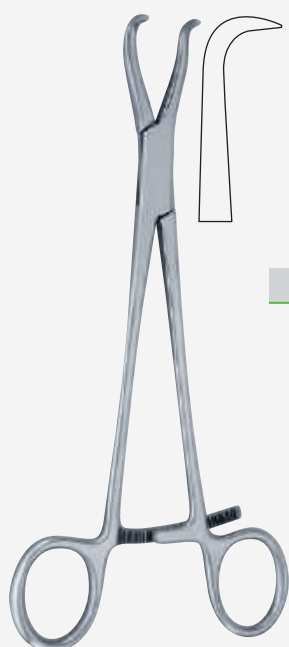
Reill
 12-102-17
 17 cm - 6 ¾"



Hogan
 12-103-20
 20 cm - 8"



Sadle
 12-104-13
 13.5 cm - 5"
 for maxillary reposition
 für Kieferreposition
 para reposición mandibular
 pour reposition mandibulaire
 per reposizione mandibulare



Haase

12-105-16

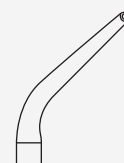
16.5 cm - 6 1/2"

for mandibular fractures
für Unterkieferfrakturen
para fracturas del mandibulo
pour fractures mandibulaires
per fratture mandibulare



Saddle Mini

12-106-9



12-107-9

9.5 cm - 3 3/4"



Patella

12-108-18

18.5 cm - 7 1/4"



Malleolar

12-109-21

21 cm - 8 1/4"



Demel

12-110-32 x = 32 mm

12-110-45 x = 45 mm

12-110-62 x = 62 mm

28 cm - 11"



Demel

12-111-28

28 cm - 11"



Loute
12-112-21
21 cm - 8 1/4"



Tightner
12-113-13
13 cm - 5"



12-114-01	0.2 mm Ø
12-114-02	0.3 mm Ø
12-114-03	0.4 mm Ø
12-114-04	0.5 mm Ø
12-114-05	0.6 mm Ø
12-114-06	0.7 mm Ø
12-114-07	0.8 mm Ø
12-114-08	0.9 mm Ø
12-114-09	1.0 mm Ø
12-114-10	1.2 mm Ø
12-114-11	1.5 mm Ø

Bone wire, soft, in coils of 10 m
Knochendraht, weich, in Ringen à 10 m
Alambre de cerclaje, blando, de 10 m
Fil de cerclage, souple, de 10m
Filo per ossa, morbida, anelli da 10 m



12-115-01	0.8 mmØ x280 mm
12-115-02	1.0 mmØ x 280 mm
12-115-03	1.2 mmØ x 280 mm
12-115-04	1.0 mmØ x600 mm
12-115-05	1.2 mmØ x600 mm



Bone wire with eye, soft, package of 10 pieces
Knochendraht mit Auge, weich, Packung à 10 Stück
Alambre de cerclaje, blando, paquete de 10 piezas
Fil de cerclage, souple, paquet de 10 pièces
Filo per ossa con ansa, morbida, pacchetto di 10 pezzi

Heft

12-116-22 22 cm - 8 ¾"

for hard wires up to 2.2 mm Ø, for soft wires up to 3 mm Ø
 für harte Drähte bis 2.2 mm Ø, für weiche Drähte bis 3 mm Ø
 para alambres duros hasta 2.2 mm Ø, y alambres blandos de 3 mm Ø
 pour fils durs à diam. 2.2 mm Ø, pour fils souples à 3 mm Ø
 per fili duri fina 2.2 mm Ø, per fili morbidi fino a 3 mm Ø



Taxon

12-117-22 22 cm - 8 ¾"

for hard wires up to 2.2 mm Ø, for soft wires up to 2.8 mm Ø
 für harte Drähte bis 2.2 mm Ø, für weiche Drähte bis 2.8 mm Ø
 para alambres duros hasta 2.2 mm Ø, y alambres blandos de 2.8 mm Ø
 pour fils durs à 2.2 mm Ø, pour fils souples à 2.8 mm Ø
 per fili duri fina 2.2 mm Ø, per fili morbidi fino a 2.8 mm Ø

Kilborn

12-118-23 12-118-23 23 cm - 9"

straight

curved

for hard wires up to 2.2 mm Ø, for soft wires up to 3 mm Ø
 für harte Drähte bis 2.2 mm Ø, für weiche Drähte bis 3 mm Ø
 para alambres duros hasta 2.2 mm Ø, y alambres blandos de 3 mm Ø
 pour fils durs à 2.2 mm Ø, pour fils souples à 3 mm Ø
 per fili duri fina 2.2 mm Ø, per fili morbidi fino a 3 mm Ø



T-Cut
Fig. 1

12-119-18 18 cm - 7"

for hard wires up to 1.5 mm Ø, for soft wires up to 2 mm Ø
für harte Drähte bis 1.5 mm Ø, für weiche Drähte bis 2 mm Ø
para alambres duros hasta 1.5 mm Ø, y alambres blandos de 2 mm Ø
pour fils durs à 1.5 mm Ø, pour fils souples à 2 mm Ø
per fili duri fina 1.5 mm Ø, per fili morbidi fino a 2 mm Ø



T-Cut
Fig. 2

12-120-18 18 cm - 7"

for hard wires up to 1.7 mm Ø, for soft wires up to 2 mm Ø
für harte Drähte bis 1.7 mm Ø, für weiche Drähte bis 2 mm Ø
para alambres duros hasta 1.7 mm Ø, y alambres blandos de 2 mm Ø
pour fils durs à 1.7 mm Ø, pour fils souples à 2 mm Ø
per fili fina 1.7 mm Ø, per fili morbidi fino a 2 mm Ø



Gabriel

12-121-15 15 cm - 6"

for hard wires up to 1 mm Ø, for soft wires up to 1.5 mm Ø
für harte Drähte bis 1 mm Ø, für weiche Drähte bis 1.5 mm Ø
para alambres duros hasta 1 mm Ø, y alambres blandos de 1.5 mm Ø
pour fils durs à 1 mm Ø, pour fils souples à 1.5 mm Ø
per fili duri fina 1 mm Ø, per fili morbidi fino a 1.5 mm Ø



Zim

12-122-14 14.5 cm - 5 3/4"

for hard wires up to 1 mm Ø
für harte Drähte bis 1 mm Ø
para alambres duros hasta 1 mm Ø
pour fils durs à 1 mm Ø
per fili duri fino a 1 mm Ø



Haanna

12-122-18

18.5 cm - 7 1/4"

soft Ø 2.5mm
hard Ø 1.5mm



Ultramake

12-123-57 57 cm - 22 1/2"

for Kirschner wires and Steinmann pins up to 6 mm Ø
 für Kirschner Drähte und Steinmann Nägel bis 6 mm Ø
 para agujas de Kirschner y clavos de Steinmann hasta 6 mm Ø
 pour des broches Kirschner et clous Steinmann à 6 mm Ø
 per fili Kirschner e chiodi Steinmann fino a 6 mm Ø



Mochi

12-124-18 18.5 cm 7 1/4"

Kopfschneider, durchbohrt für harte Drähte bis 1.6 mm Ø
 Wire cutting forceps for hard wires up to 1.6 mm Ø
 Pince coupante pour fils durs à 1.6 mm Ø
 Alicates para alambres duros hasta 1.6 mm Ø
 Pinza taglia fili per fili duri fino a 1.6 mm Ø



soft Ø 2 mm

hard Ø 2 mm

Gravity

12-125-16

16 cm - 6 1/4"



Lionman

12-125-26 26 cm - 10 1/4"

for hard wires up to 3 mm Ø
 für harte Drähte bis 3 mm Ø
 para alambres duros hasta 3 mm Ø
 pour fils durs à 3 mm Ø
 per fili duri fino a 3 mm Ø



Passor

12-126-13 13 cm - 5"

12-126-18 18 cm - 7"



Flatone

12-127-14 14 cm - 5 1/2"

12-127-17 17 cm - 6 3/4"



Flatpro

12-128-05

12-128-05

18 cm - 7"

12-129-05 x = 5 mm

12-129-07 x = 7 mm

18 cm - 7"



Twison

12-130-22 22 cm - 8 3/4"

Grip-Zange, kombiniert mit TC-Schneider
Grip forceps, combined with TC-Cutter
Pince grip, avec partie coupante TC
Pinza grip, con parte cortante TC
Pinza grip, con morso tagliente a TC



Gripper

12-131-19 19 cm - 7 1/2"

Technische Zange, verstellbar
Technical forceps, adjustable
Pince technique, ajustable
Pinza tecnica, ajustable
Pinza tecnica, regolabile



Combi

12-132-17

17 cm - 6 3/4"



Arom - Fig. 1

12-133-18

18.5 cm - 7 1/4"

Wire bending forceps
Drahtbiegezange
Pinza para torcer
Pince à couder
Pinza per piegare



Fig. 2

12-134-18

18.5 cm - 7 1/4"

Flat nose plier, parallel grip, incorporated
cutter, for hard wires up to 1.6 mm Ø
Flachzange mit Seitenschneider, parallel-
fassend, für harte Drähte bis 1.6 mm Ø
Pinza para torcer con corte lateral,
para alambres hasta 1.6 mm Ø
Pince à couder avec coupe latéral,
pour des fils durs à de 1.6 mm Ø
Pinza, morso piatto parallelo e taglia
fili laterale fino a 1.6 mm Ø



Fixton

12-135-18

18 cm - 7"

12-135-20

20 cm - 8"

12-135-24

24 cm - 9 1/2"

Locking plier
Feststellzange
Pinza de fijar
Pince à caler
Pinza bloccante



Fixton - Advanced

12-136-20

20 cm - 8"

Plattenbiegezange für Knochenplatten bis 2.7 mm Stärke
Plate bending plier for plates up to 2.7 mm
Pince à couder pour des plaques de 2.7 mm
Pinza para torcer, placas hasta 2.7 mm
Pinza piega placche fino a 2.7 mm

12-137-24

24 cm - 9 1/2"

Plattenbiegezange für Knochenplatten bis 4 mm Stärke
Plate bending plier for plates up to 4 mm
Pince à couder pour des plaques de 4 mm
Pinza para torcer, para placas hasta 4 mm
Pinza piega placche fino a 4 mm



Mayor

12-138-01	22 cm - 8 3/4"
12-138-02	25 cm - 9 3/4"
12-138-03	30 cm - 12"

Locking plier

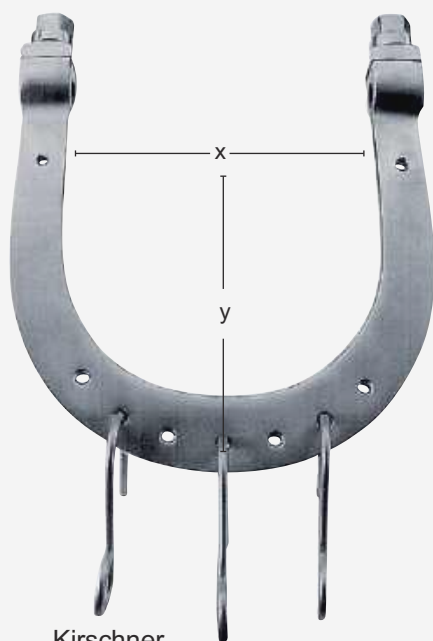
Extension bows
 Extensionsbügel
 Estribos para extensión
 Etriers pour extension
 Archi di estensione



Bow

12-139-18 18 cm - 7"

Wire strainer for Kirschner wires
 Spannschlüssel für Kirschner Drähte
 Tensor para agujas de Kirschner
 Tendeur pour fils de Kirschner
 Chiave per estensione di fili Kirschner



Kirschner

12-140-01	x = 95 mm y = 70 mm
12-140-02	x = 100 mm y = 100 mm
12-140-03	x = 120 mm y = 120 mm
12-140-04	x = 155 mm y = 155 mm
12-140-05	x = 200 mm y = 155 mm

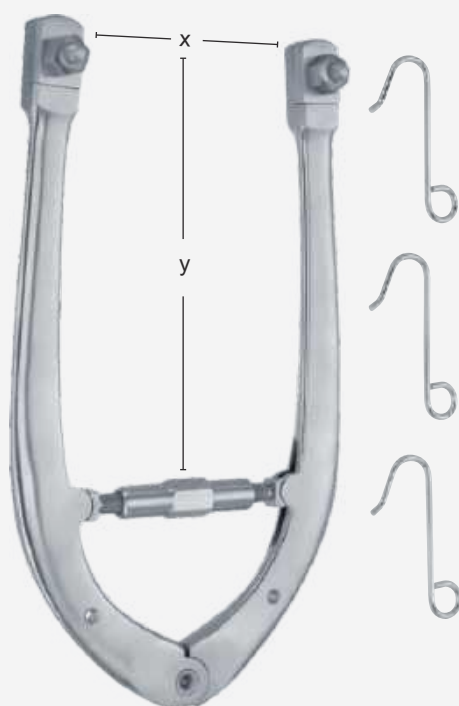
with 3 traction hooks
 mit 3 Zughaken
 con 3 ganchos de tracción
 avec 3 crochets d'attelage
 con 3 ganci di trazione



Kirschner

12-141-13	x = 130 mm
12-141-18	x = 185 mm
12-141-22	x = 220 mm

with 3 traction hooks
 mit 3 Zughaken
 con 3 ganchos de tracción
 avec 3 crochets d'attelage
 con 3 ganci di trazione

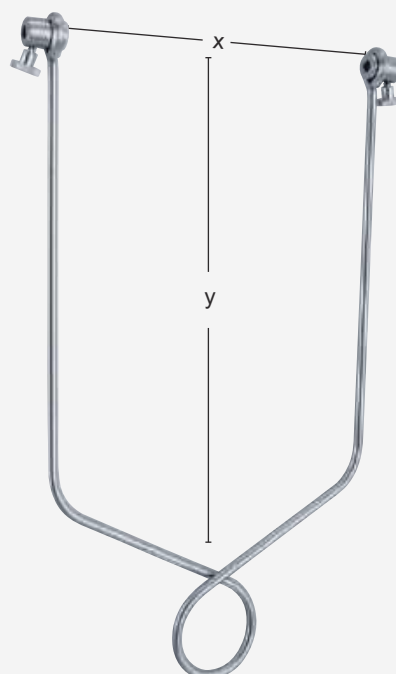


Kirschner

12-142-18	x = 180 mm	y = 100 mm
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12-142-27	x = 270 mm	y = 160 mm
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with 3 traction hooks
mit 3 Zughaken
con 3 ganchos de tracción
avec 3 crochets d'attelage
con 3 ganci di trazione



Bohler

12-143-01	x = 75 mm	y = 90 mm
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12-143-02	x = 90 mm	y = 160 mm
-----------	-----------	------------

12-143-03	x = 110 mm	y = 210 mm
-----------	------------	------------

12-143-04	x = 150 mm	y = 210 mm
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Key

12-144-19	19 cm - 7 1/2"
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14 mm / 17 mm
Wrench
Gabelschlüssel
Llave de tuercas
Clé de serrage
Chiave per madreviti



Percy

12-145-22

Handles detachable, simple pattern
 Griffe abnehmbar, einfaches Modell
 Mango desmontable, modelo simple
 Manches à détacher, modèle simple
 Manici demontabili, modello semplice



Comprimeter

12-146-22

Consisting of arm and upper thigh cuff,
 manometer calibrated up to 700 mm Hg, with metal pump
 Komprimeter, bestehend aus Arm- und Oberschenkelmanschette,
 Manometer justiert bis 700 mm Hg und Metallpumpe
 Comprímetro, se compuesto de brazalete para brazo y muslo,
 manómetro calibrado hasta 700 mm Hg, con bomba metálica
 Comprimètre se composant du brassard pour bras et cuisse,
 manomètre calibré jusqu'à 700 mm Hg, avec pompe métallique
 Comprímetro, composto da torniquete, due bracciali e pompa d'aria
 e manometro graduato fino a 700mm Hg



Bunell

12-147-16 16 cm - 6 1/4"

Opening up to 4 mm Ø
Öffnung bis 4 mm Ø
Apertura hasta 4 mm Ø
Ouverture jusqu'à 4 mm Ø
Apertura fino à 4 mm Ø

Light metal housing
Leichtmetallgehäuse
Carcasa en metal ligero
Carcasse en métal léger
In scatola di alluminio
Longitudinally cannulated
Längsdurchbohrt
Taladrado longitudinalmente
À perforation axiale
Forato longitudinalmente

12-148-16

Spare key
Ersatzschlüssel
Llave de recambio
Clé de réchange
Chiave di ricambio



Ralk

12-149-16

16 cm - 6 1/4"

Opening up to 6.35 mm Ø
Öffnung bis 6,35 mm Ø
Apertura hasta 6.35 mm Ø
Ouverture jusqu'à 6.35 mm Ø
Apertura fino à 6.35 mm Ø

Light metal housing
Leichtmetallgehäuse
Carcasa en metal ligero
Carcasse en métal léger
In scatola di alluminio
Longitudinally cannulated
Längsdurchbohrt
Taladrado longitudinalmente
À perforation axiale
Forato longitudinalmente



Stille

12-150-20
20 cm - 8"

12-150-00 complete with 9 twist drills (Fig. 1 – Fig. 9)

Consisting:

12-150-20	Drill, 20 cm / 8"
12-150-01	Bur, Fig. 1, 2.5 mm Ø
12-150-02	Bur, Fig. 2, 3.0 mm Ø
12-150-03	Bur, Fig. 3, 3.5 mm Ø
12-150-04	Bur, Fig. 4, 4.0 mm Ø
12-150-07	Bur, Fig. 7, 8.0 mm Ø
12-150-08	Bur, Fig. 8, 12.0 mm Ø
12-150-09	Bur, Fig. 9, 16.0 mm Ø



12-151-01

Fig.1

2.5 mmØ



12-152-02

Fig.2

3.0 mmØ



12-153-03

Fig.3

3.5 mmØ



12-154-04

Fig.4

4.0 mmØ



12-155-07

Fig7

8.0 mm Ø



12-156-08

Fig.8

12.0 mm Ø



12-157-09

Fig.9

16.0 mm Ø



12-158-10

Fig.10

1.0 mmØ



12-159-11

Fig.11

1.5 mmØ



12-160-12

Fig.12

2.0 mmØ



Jacobs

12-161-28

28 cm - 11"

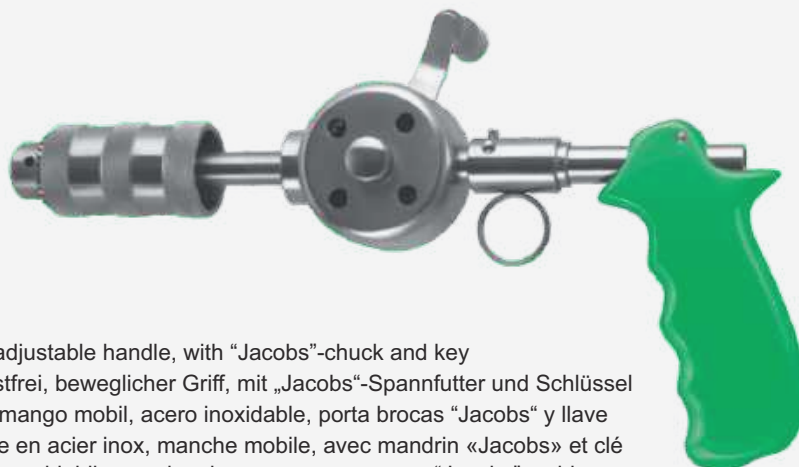
Opening up to 6.35 mm Ø
Öffnung bis 6,35 mm Ø
Apertura hasta 6.35 mm Ø
Ouverture jusqu'à 6.35 mm Ø
Apertura fino à 6.35 mm Ø



Viva

12-162-00

Opening up to 6.35 mm Ø
Öffnung bis 6,35 mm Ø
Apertura hasta 6.35 mm Ø
Ouverture jusqu'à 6.35 mm Ø
Apertura fino à 6.35 mm Ø



Joanna

12-163-28

28 cm - 11"

Hand drill, stainless, adjustable handle, with "Jacobs"-chuck and key
Handbohrapparat, rostfrei, beweglicher Griff, mit „Jacobs“-Spannfutter und Schlüssel
Taladradora a mano, mango mobil, acero inoxidable, porta brocas "Jacobs" y llave
Perceuse mécanique en acier inox, manche mobile, avec mandrin «Jacobs» et clé
Perforatore a mano, inossidabile, manico da muovere, con morso "Jacobs" e chiave



Drill

12-164-01	12-165-01	1.0 mm Ø
12-164-02	12-165-02	1.5 mm Ø
12-164-01	12-165-03	2.0 mm Ø
12-164-02	12-165-04	2.5 mm Ø
12-164-05	12-165-05	2.8 mm Ø
12-164-03	12-165-06	3.0 mm Ø
12-164-04	12-165-07	3.2 mm Ø
12-164-05	12-165-08	3.5 mm Ø
12-164-06	12-165-09	4.0 mm Ø
12-164-07	12-165-10	5.0 mm Ø
12-164-08	12-165-11	6.0 mm Ø
12-164-09	12-165-12	7.0 mm Ø

AO Shank
 AO Schaft
 Connector AO
 Raccord AO
 Attaco AO

Round shank
 Rundschaft
 Tija redonda
 Tige ronde
 Asta rotondo



Perthes - Fig. 1

12-166-18	18 cm - 7"
12-166-21	21 cm - 8 1/4"



Fig. 2

12-167-14
14 cm - 5 1/2"



Fig. 3

12-168-14
14 cm - 5 1/2"