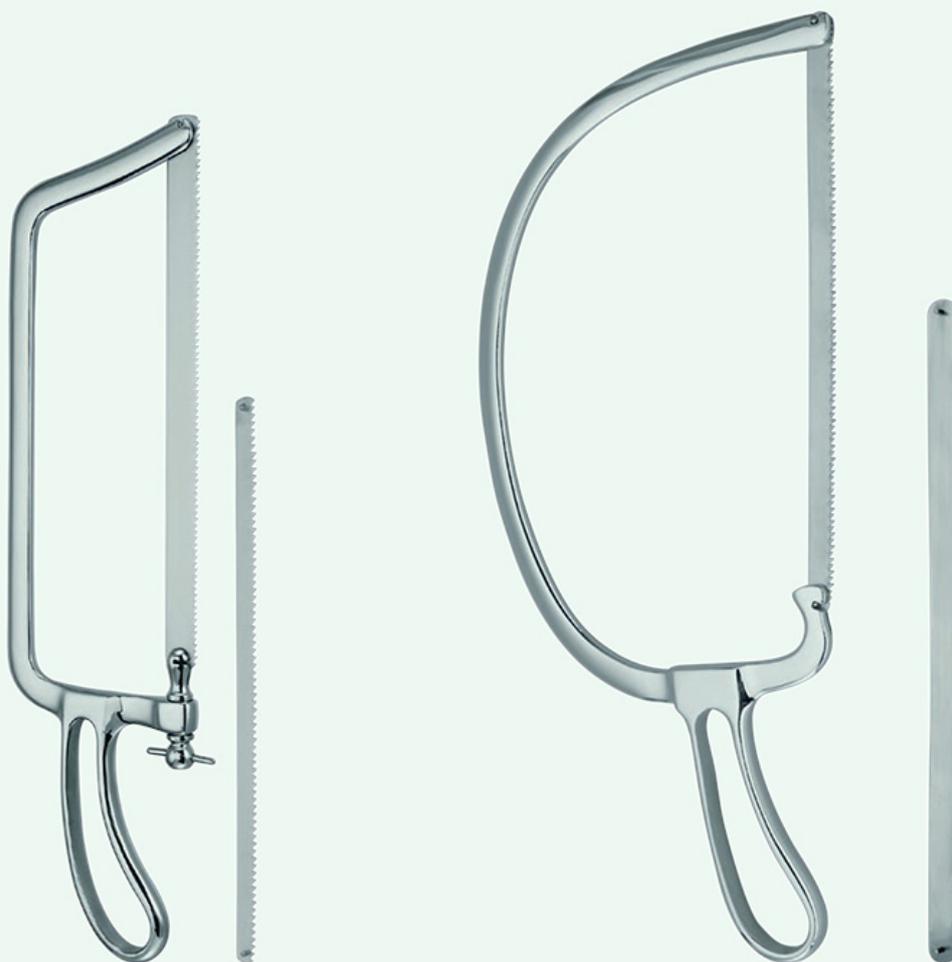




12

Bone surgery
Knochenchirurgie
Cirugía ósea
Chirurgie osseuse
Chirurgia ossea



Charriere

12-500-35	12-501-12	1.2 cm
35 cm - 13 3/4"	12-501-15	1.5 cm

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

HelferichBier

12-502-39	12-503-03	3 mm
39 cm - 15 1/2"	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

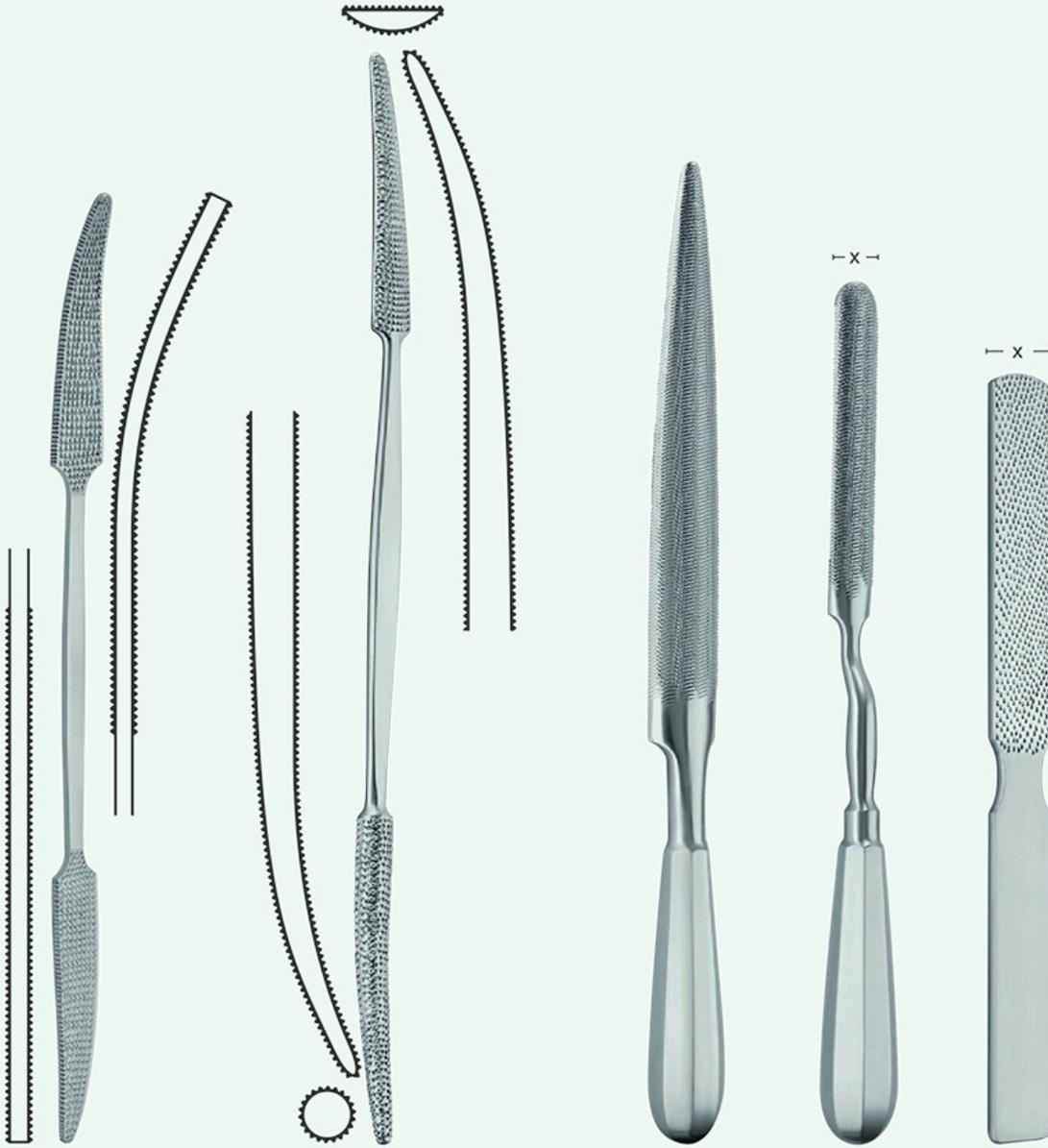
27 cm - 10 3/4"

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"

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

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

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

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

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 ¾"



Collin

12-513-20

20 cm - 8"

30 mmØ – 220 g



Hajek

12-514-21

21.5 cm - 8 ½"

27 mmØ – 140 g



Kirk

12-515-19

19. cm - 7 ½"

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 mmØ – 260 g

19 cm - 7 ½"



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 mm Ø - 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 mm Ø - 300 g



Ombredanne
 12-521-24
 24 cm - 9 1/2"
 40 mm Ø - 550 g



Heath
 12-522-18 40 mm Ø - 700 g 18 cm - 7"
 12-522-20 45 mm Ø - 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 3/4"
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 1/2"
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

Ferrozell, without lead
Ferrozell, ohne Blei
Ferrozell, sin plomo
Ferrozell, sans plomb
Ferrozell, senza piombo

12-532-26 26 cm - 10 1/4"

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 1/2"
30 mmØ - 450 g

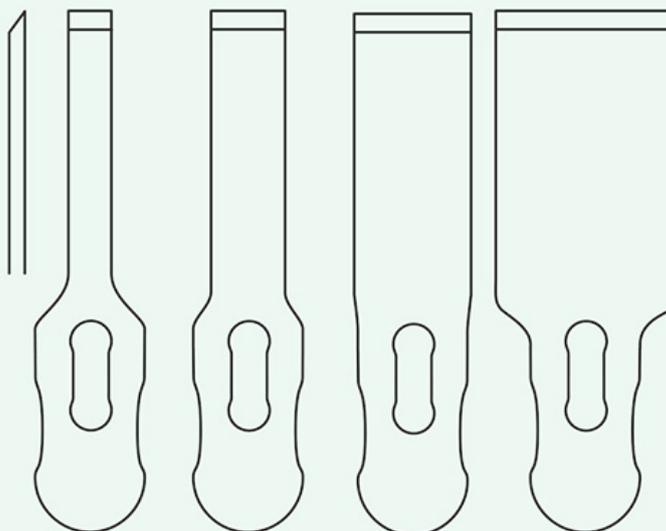
12-534-26

26.5 cm - 10 1/2"
50 mmØ - 900 g



12-535-18

18.5 cm - 7 ¼"
Handle Only



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 ¼"

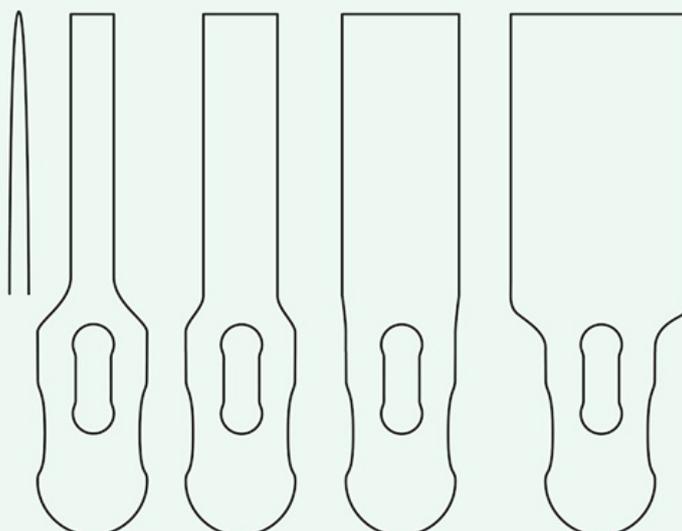
Chisel blades, interchangeable
Meißelklingen, auswechselbar
Hojas de cincel, intercambiables
Lames ciseaux-burin, interchangeables
Lame, intercambiabili



12-540-09

9 cm - 3 ½"

Key
Spannschlüssel
Llave
Clé
Chiave



12-541-08

5 mm

12-542-08

10 mm

12-543-08

16 mm

12-544-08

25 mm

8.5 cm - 3 ¼"

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

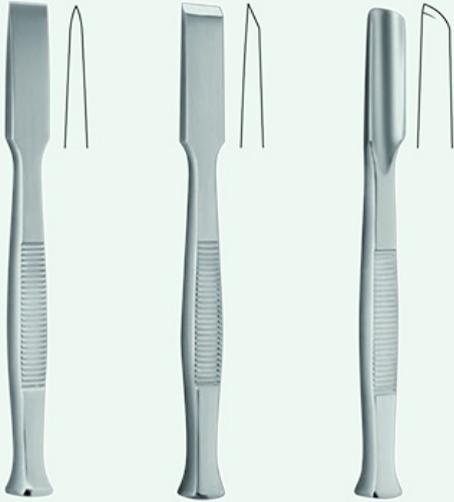
12-540-09 Key

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

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

Bone chisels and gouges
 Knochenmeißel
 Cinceles, gubias
 Ciseaux-burins, gouges
 Bone scalpelli e sgorbie

surgimax™
 saving lives



Mould

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
 Cincel
 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"	



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"	



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"	



Lexer

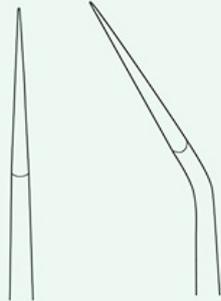
12-561-07	12-562-07	12-563-07	12-564-07	7 mm
12-561-10	12-562-10	12-563-10	12-564-10	10 mm
12-561-15	12-562-15	12-563-15	12-564-15	15 mm
12-561-20	12-562-20	12-563-20	12-564-20	20 mm
12-561-25	12-562-25	12-563-25	12-564-25	25 mm
12-561-30	12-562-30	12-563-30	12-564-30	30 mm
22 cm - 8 3/4"	30 cm - 12"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

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"
Osteotomes
straight

27.5 cm - 10 3/4"
Osteotomes
curved

27.5 cm - 10 3/4"
Gouges
straight

27.5 cm - 10 3/4"
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"
Gouges

23.5 cm - 9 1/4"
Gouges

25 cm - 10"
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"					



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"				



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"					



**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	
Ostéotomos	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 rinoplastica

surgimax™
 saving lives



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

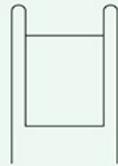
7 mm



12-595-17

8 mm

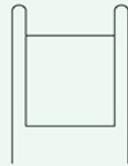
17 cm - 6 3/4"



Cinelli

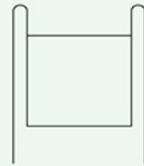
12-596-18

10 mm



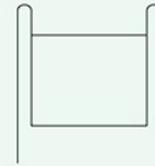
12-597-18

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



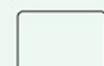
12-605-18

7 mm



12-606-18

9 mm



12-607-18

12 mm

18 cm - 7"

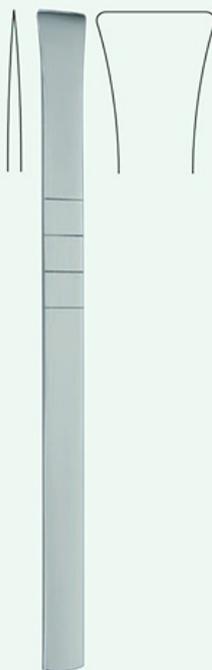
Chisels, osteotomes for rhinoplastic
 Meißel zur Nasenplastik
 Cinceles para rinoplastica
 Ostéotomes, ciseaux-burins pour rhinoplastique
 Scalpelli, osteotomi per rinoplastica



Cottle

12-608-18

6 mm



12-609-18

16 mm



12-610-18

18 cm - 7"

16 mm



Rubin

12-611-18

10 mm



12-612-18

12 mm



12-613-18

18 cm - 7"

14 mm



Cottle

				20 cm - 8"
12-614-20 4 mm	12-615-20 7 mm	12-616-20 9 mm	12-617-20 12 mm	



Walter

		19 cm - 7 1/2"
12-618-19 3 mm	12-619-19 4,5 mm	

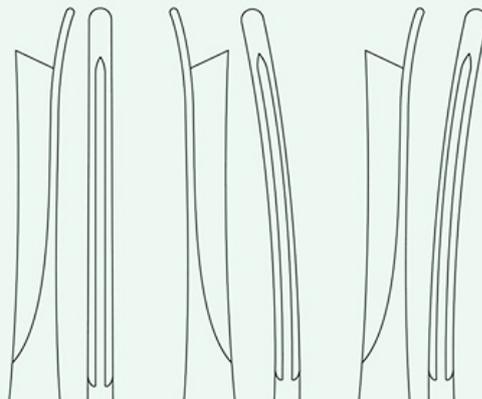


Sheehan

				16 cm - 6 1/4"
12-620-16 2 mm	12-621-16 4 mm	12-622-16 6 mm	12-623-16 8 mm	

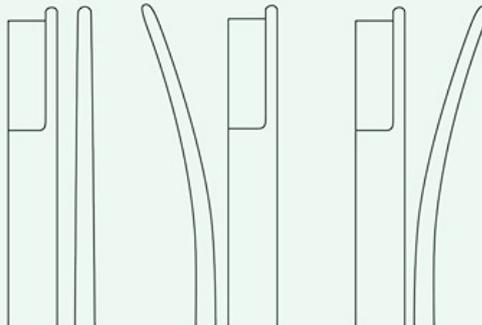
12-624-16 10 mm	12-625-16 12 mm	12-626-16 15 mm	12-627-16 18 mm

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



Silver
12-628-18 **12-629-18** **12-630-18** 18 cm - 7"

straight right left
 gerade rechts links
 recta derecha izquierda
 droit droite gauche
 retta destra sinistra



Neivert-Anderson
12-631-20 **12-632-20** **12-633-20** 20 cm - 8"

straight right left
 gerade rechts links
 recta derecha izquierda
 droit droite gauche
 retta destra sinistra



Obwegeser
 12-634-23
 23.5 cm - 9 ¼"
 11 mm



Obwegeser
 12-635-21
 7 mm



12-636-21 21.5 cm - 8 ½"
 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	Fig.2	
2.5 mm x 2.5 mm	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



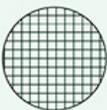
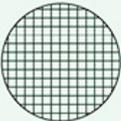
Temper Modified

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	12-262-05	12-262-08	20 cm - 8"
3 mm	5 mm	8 mm	

			
12-263-12	12-263-14	12-263-16	20 cm - 8"
12 mm	14 mm	16 mm	

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



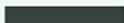
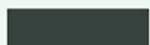
		
Ivanio		
12-264-03	12-264-04	29 cm - 11 1/2"
3 x 8 mm	4 x 10 mm	

		
12-264-05	12-264-06	29 cm - 11 1/2"
5 x 15 mm	6 x 20 mm	

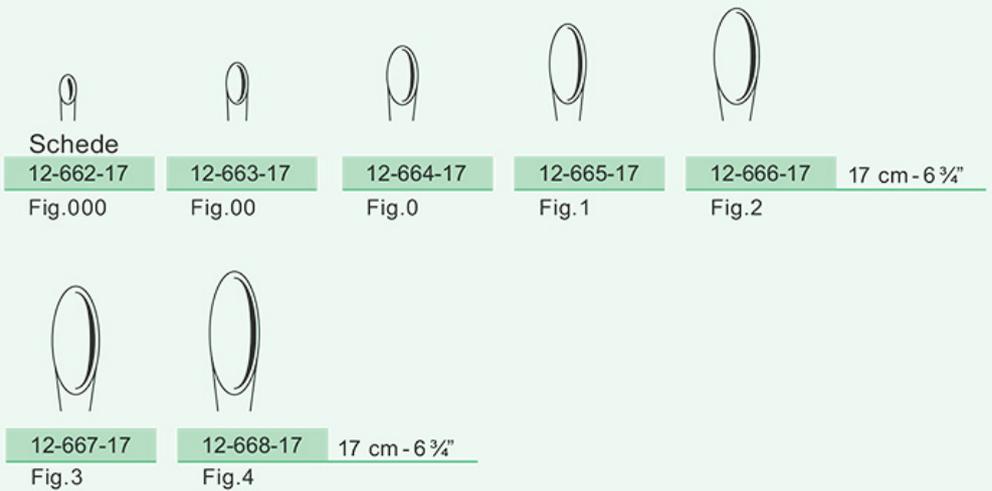
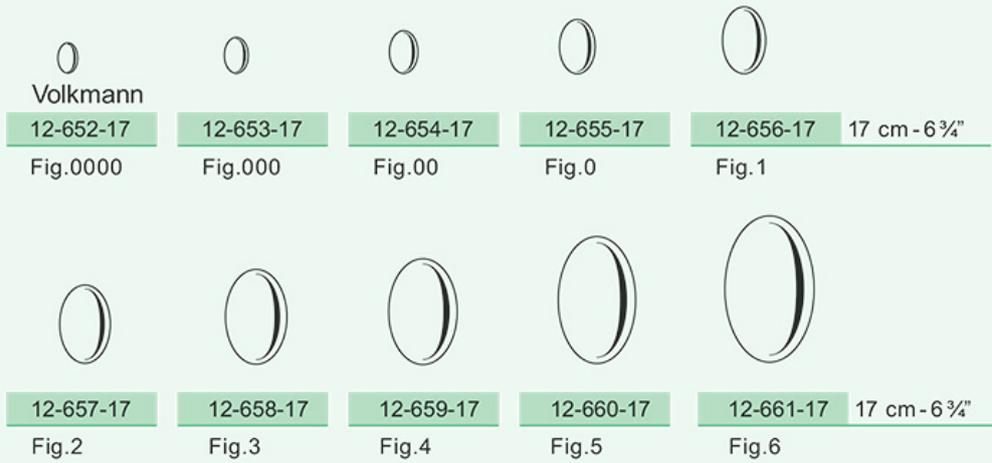
Ferrozell handle
Ferrozellgrif
Mango en Ferrozell
Manche en Ferrozell
Manico di Ferrozell



		
Moston		
12-265-02	12-265-06	22.5 cm - 8 3/4"
2 x 9 mm	6 x 9 mm	

		
12-265-03	12-265-06	22.5 cm - 8 3/4"
3 x 16 mm	6 x 19 mm	

		
12-265-08		
22.5 cm - 8 3/4"		
Ø 8 mm		





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



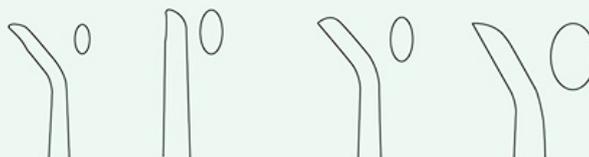
12-686-16

Fig.6

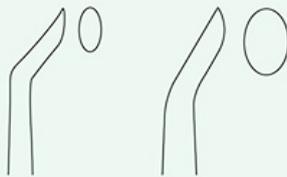


Volkmann						
12-687-18	12-688-18	12-689-18	12-690-18	12-691-18	12-692-18	18.5 cm - 7 1/4"
Fig.0000	Fig.000	Fig.00	Fig.0	Fig.1	Fig.2	
12-693-19	12-694-19	12-695-19	12-696-19	19 cm - 7 1/2"		
Fig.3	Fig.4	Fig.5	Fig.6			
12-697-27	12-698-27	12-699-27	12-700-27	12-701-27	27.5 cm - 10 3/4"	
Fig.0	Fig.1	Fig.2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

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



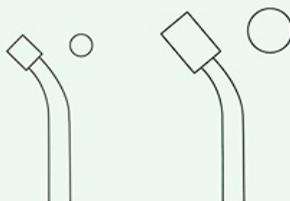
Bruns				
12-213-43	12-214-43	12-215-43	12-216-43	43 cm - 17"
12-213-50	12-214-50	12-215-50	12-216-50	50 cm - 19 3/4"
2 mm	3 mm	3 mm	6 mm	



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 12-703-21 12-704-21 21 cm - 8 1/4"

Fig. 1
flexible
flexibel
flexible
flexible
flessibile



Thorde

12-705-17

Fig. 1



12-706-17

Fig. 2

17 cm - 6 3/4"



Bruns

12-707-23 12-708-23 12-709-23 12-710-23 23 cm - 9"

Fig. 00

Fig. 0

Fig. 1

Fig. 2



12-711-23

Fig. 3

12-712-23

Fig. 4

12-713-23

Fig. 5

12-714-23

Fig. 6

solid
massiv
macizo
solide
massicio



Schroeder

12-715-30

Fig.1



12-716-30

Fig.2



12-717-30

Fig.3

30 cm - 12"



12-718-30

Fig.4



12-719-30

Fig.5



12-720-30

Fig.6

30 cm - 12"

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



Simon

12-721-24

Fig.0000



12-722-24

Fig.000



12-723-24

Fig.00



12-724-24

Fig.0

24 cm - 9 1/2"

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



Simon

12-725-25

Fig.1



12-726-25

Fig.2



12-727-25

Fig.3

25 cm - 9 3/4"



12-728-25

Fig. 4



12-729-25

Fig. 5



12-730-25

Fig. 6

25 cm - 9 3/4"

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 3.3 mm	12-251-02 3.3 mm	12-251-03 3.3 mm	Fig. 000	23 cm - 9"
○	12-252-01 3.9 mm	12-253-02 3.9 mm	12-254-03 3.9 mm	Fig. 00	23 cm - 9"
○	12-255-01 4.7 mm	12-255-02 4.7 mm	12-255-03 4.7 mm	Fig. 0	23 cm - 9"
○	12-256-01 5.3 mm	12-256-02 5.3 mm	12-256-03 5.3 mm	Fig. 1	23 cm - 9"
○	12-257-01 6 mm	12-257-02 6 mm	12-257-03 6 mm	Fig. 2	23 cm - 9"
○	12-258-01 7.2 mm	12-258-02 7.2 mm	12-258-03 7.2 mm	Fig. 3	23 cm - 9"
○	12-259-01 8.2 mm	12-259-02 8.2 mm	12-259-03 8.2 mm	Fig. 4	23 cm - 9"
○	12-260-01 9.8 mm	12-260-02 9.8 mm	12-260-03 9.8 mm	Fig. 5	23 cm - 9"
○	12-261-01 12 mm	12-261-02 12 mm	12-261-03 12 mm	Fig. 6	23 cm - 9"



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 ½"

12-768-16 16 cm - 6 ¼"

12-768-17 17 cm - 6 ¾"

12-768-20 20 cm - 8"

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

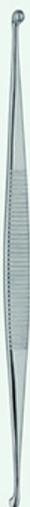


Fig. 3

12-769-21

21 cm - 8 ¼"

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.00



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

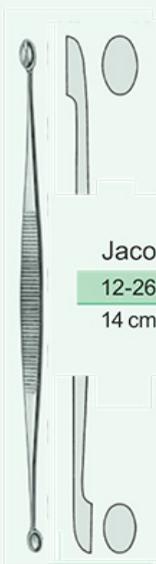


12-781-15

Fig. 1

Fig. 1

15.5 cm - 6"



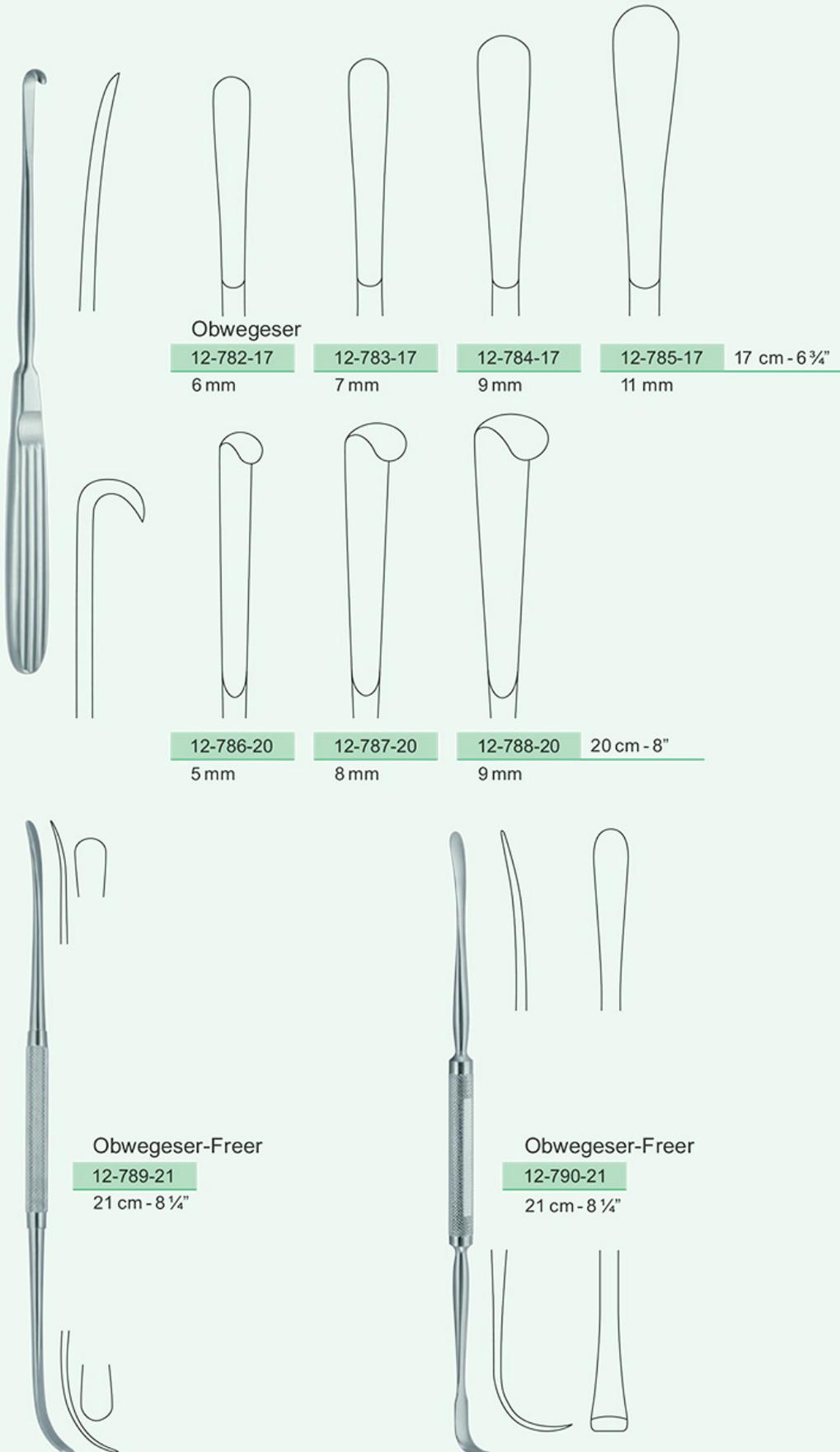
Jacobson

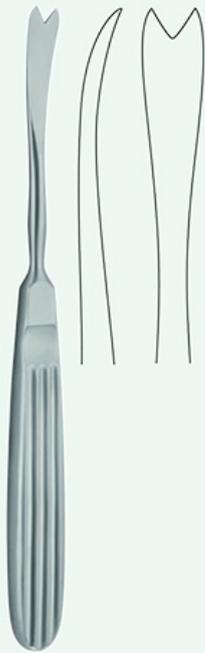
12-262-14

14 cm - 5 1/2"

Periosteal elevators for maxillo-facial surgery
 Raspatorien für die Kieferchirurgie
 Periostótomos para la cirugía maxilofacial
 Rugines – Décolleurs pour la chirurgie maxillo-faciale
 Scollaperiostio per la chirurgia maxillo-facciale

surgimax™
 saving lives





Obwegeser

12-791-17

17.5 cm - 7"



Obwegeser

12-792-23

23 cm - 9"



Obwegeser

12-793-18

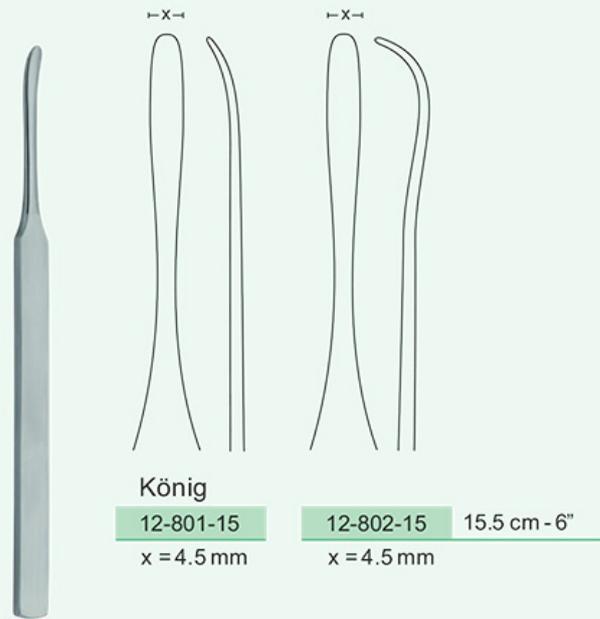
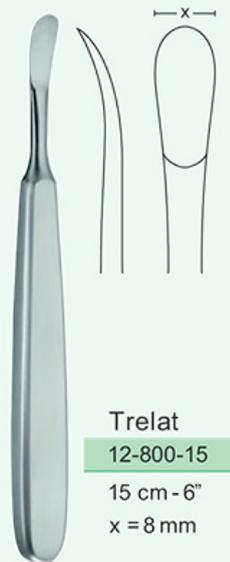
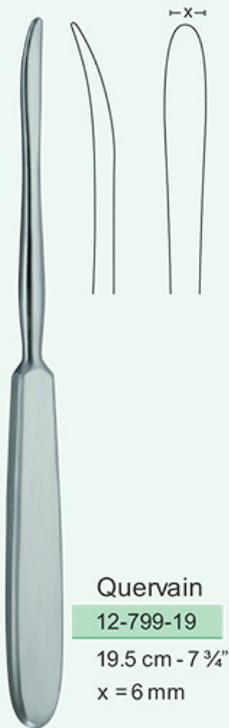
18 cm - 7"

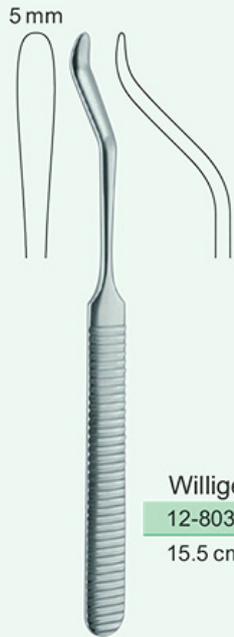


Obwegeser

12-794-14

14 cm - 5 1/2"

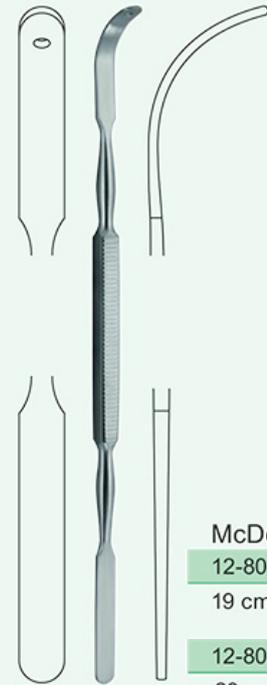




Williger
12-803-15
15.5 cm - 6"

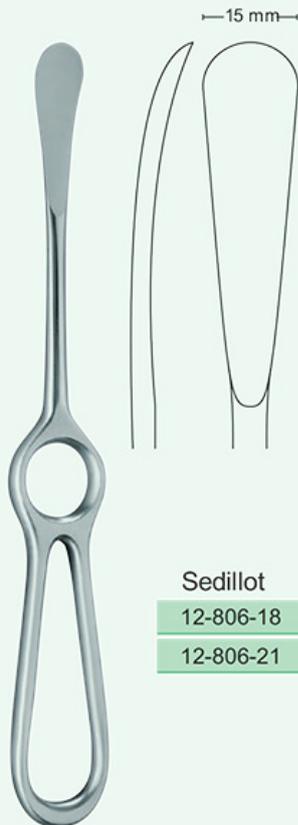


Alderdyce
12-804-21
21 cm - 8 1/4"



McDonald
12-805-19
19 cm - 7 1/2"

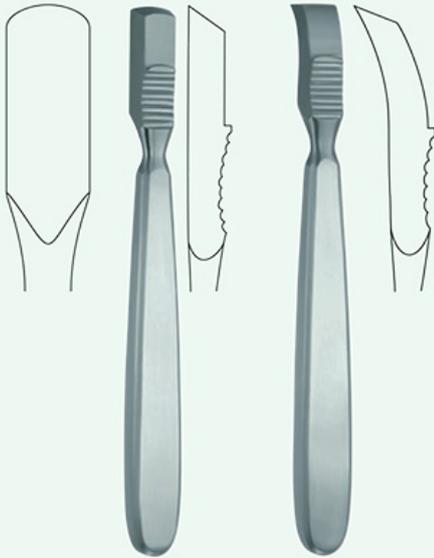
12-805-23
23 cm - 9"
Less curved
Without hole



Sedillot
12-806-18 18.5 cm - 7 1/4"
12-806-21 21 cm - 8 1/4"



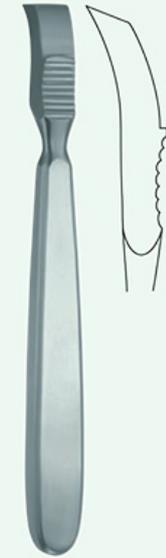
Watson-Cheyne
12-807-13 13 cm - 5 1/4"
12-807-19 19 cm - 7 1/2"



Farabeuf

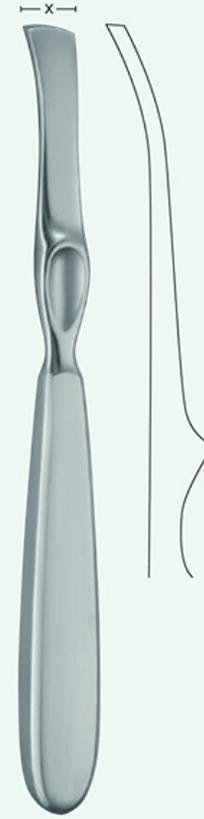
12-808-15

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

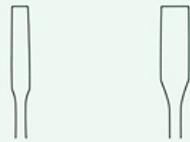
Periosteal raspatories – Elevators
 Raspatorien – Elevatorien
 Raspatorios – Elevadores
 Rugines – Elevateurs
 Periosteal raspatories – Elevators

surgimax™
 saving lives



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





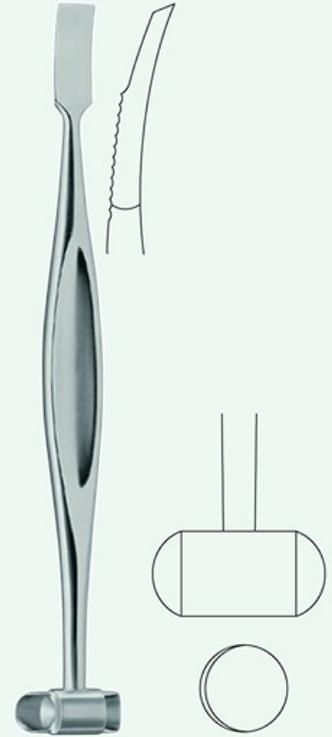
Howarth
12-832-21
21.5 cm - 8 ½"
sharp / blunt
scharf / stumpf
aguda / roma
pointu / mousse
acuta / smussa



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"



Sebilleau
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



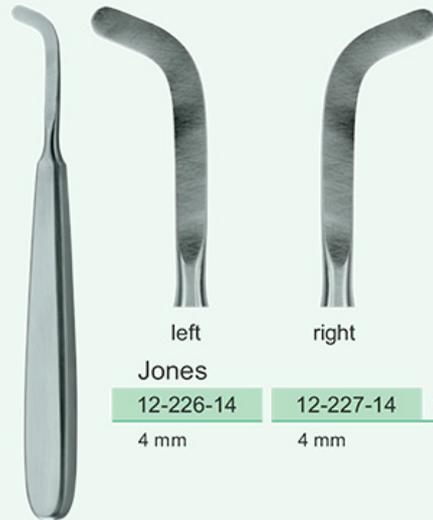
Schneider-Sauerbruch
 12-223-19
 19 cm - 7 1/2"
 13 mm



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



Cushing-Hopkins

12-228-19

19 cm - 7 1/2"

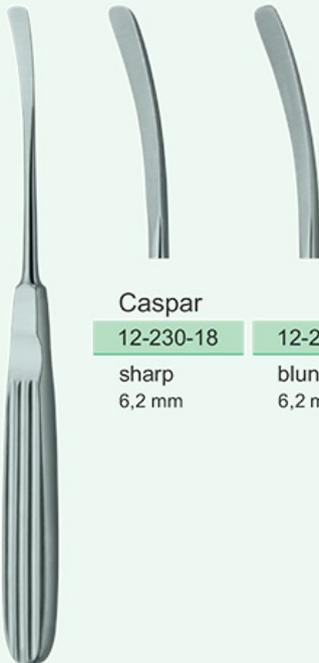


Jones Modified

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"



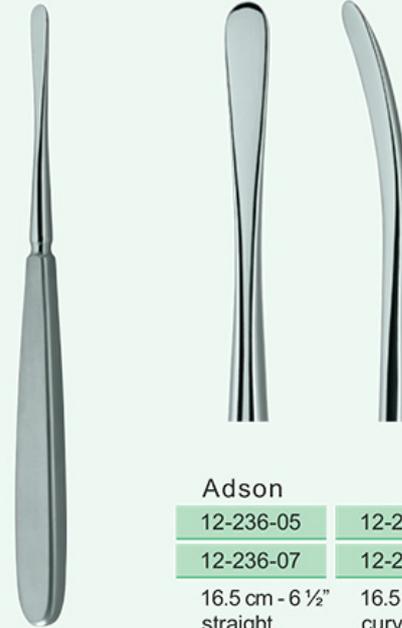
Mühling

12-232-17 12-233-17 17 cm - 6 3/4"

4 mm 4 mm

12-234-17 12-235-17 17 cm - 6 3/4"

4 mm 6 mm

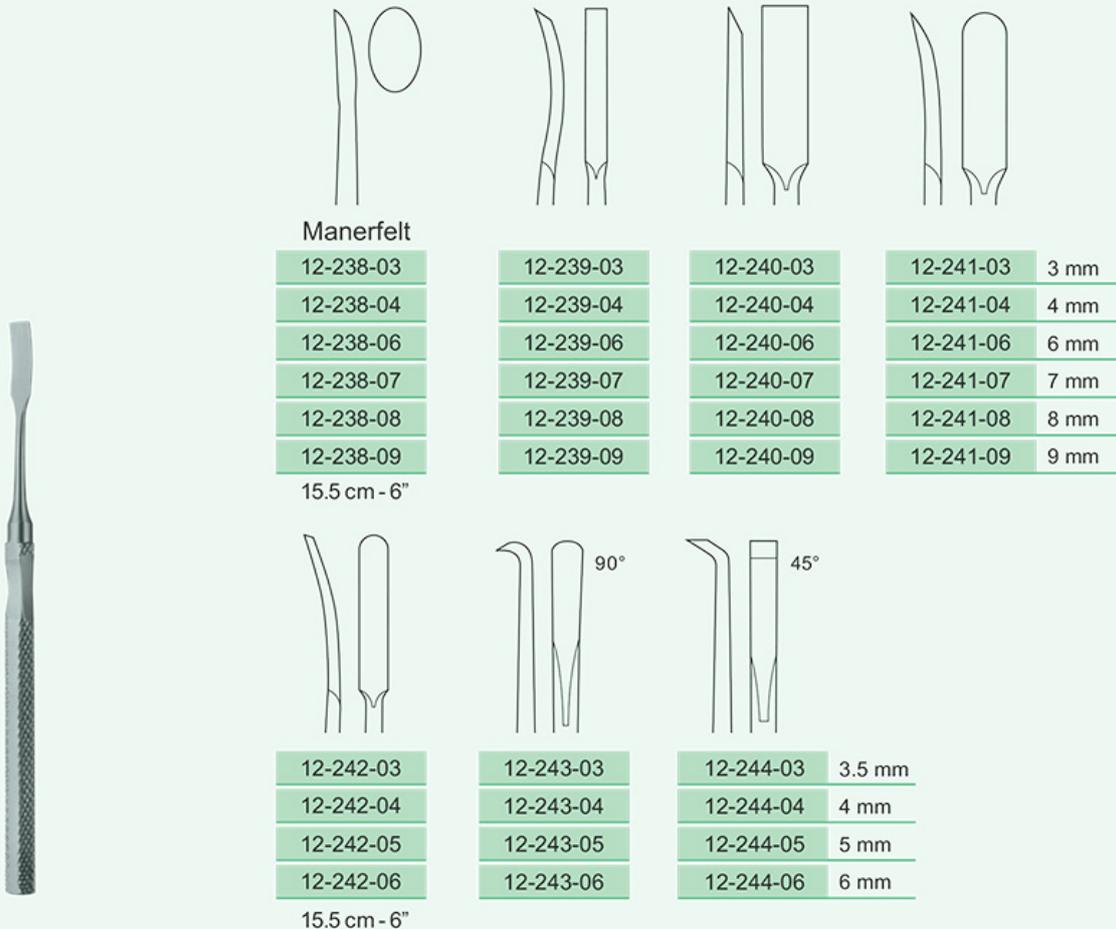


Adson

12-236-05 12-237-05 5 mm

12-236-07 12-237-07 7 mm

16.5 cm - 6 1/2" straight 16.5 cm - 6 1/2" curved



Manerfelt

12-238-03	12-239-03	12-240-03	12-241-03	3 mm
12-238-04	12-239-04	12-240-04	12-241-04	4 mm
12-238-06	12-239-06	12-240-06	12-241-06	6 mm
12-238-07	12-239-07	12-240-07	12-241-07	7 mm
12-238-08	12-239-08	12-240-08	12-241-08	8 mm
12-238-09	12-239-09	12-240-09	12-241-09	9 mm

15.5 cm - 6"

12-242-03	12-243-03	12-244-03	3.5 mm
12-242-04	12-243-04	12-244-04	4 mm
12-242-05	12-243-05	12-244-05	5 mm
12-242-06	12-243-06	12-244-06	6 mm

15.5 cm - 6"



Periosteal raspatories – Elevators
 Raspatorien – Elevatorien
 Raspatorios – Elevadores
 Rugines – Elevateurs
 Periosteal raspatories – Elevators



Cobb

12-840-29	x = 10 mm
12-841-29	x = 13 mm
12-842-29	x = 19 mm

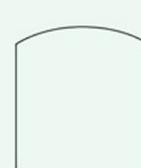
29 cm - 11 ½"

Spinal raspatory
 Wirbelsäulen-Raspatorium
 Rugine vertebral
 Raspatorio vertebral
 Periostotomo vertebral



Key

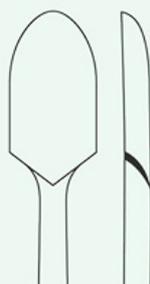
12-843-18	12-844-19	12-845-19
18 cm - 7"	19 cm - 7 ½"	19 cm - 7 ½"
x = 6 mm	x = 10 mm	x = 12 mm



12-846-20
 20 cm - 8"
 x = 19 mm



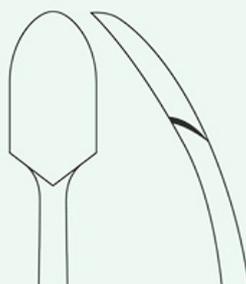
12-847-21
 21 cm - 8 ¼"
 x = 25 mm



Steger Round

12-848-20

Fig. 1
14 mm
straight
gerade
droit
recta
rette



12-849-20

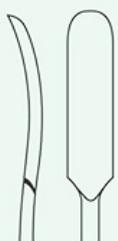
Fig. 2
14 mm
curved
gebogen
courbe
curva
curve



12-850-20 20 cm - 8"

Fig. 3
20 mm
gerade
straight
droit
recta
rette

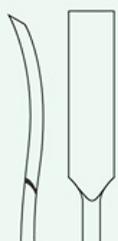
Ferrozell handle
Ferrozellgrif
Manche en Ferrozell
Mango en Ferrozell
Manico di Ferrozell



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 3/4"
x = 8 mm

12-855-22

24 cm - 9 1/2"
x = 18 mm

12-856-24

24 cm - 9 1/2"
x = 43 mm

12-857-24

24 cm - 9 1/2"
x = 70 mm



Hohmann

12-858-24

24.5 cm - 9 3/4"
x = 43 mm

12-859-26

26 cm - 10 1/4"
x = 22 mm

12-860-28

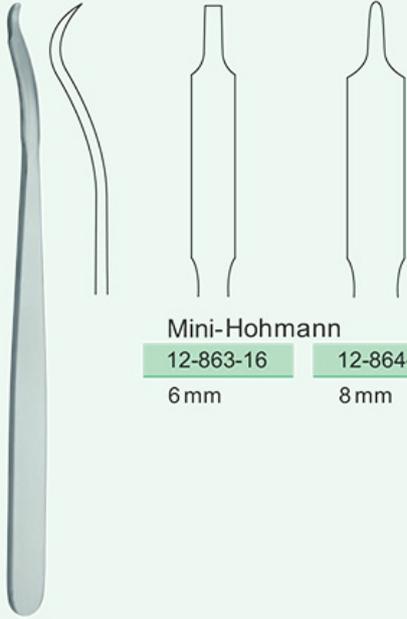
28 cm - 11"
x = 33 mm

12-861-26

26.5 cm - 10 1/2"
x = 24 mm

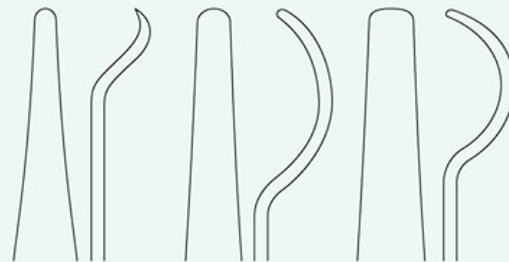
12-862-26

26 cm - 10 1/4"
x = 22 mm



Mini-Hohmann

12-863-16	12-864-16	16 cm - 6 1/4"
6 mm	8 mm	



Curvy

12-865-14	12-866-14	12-867-14	14 cm - 5 1/2"
2.8 mm	4.5 mm	6 mm	



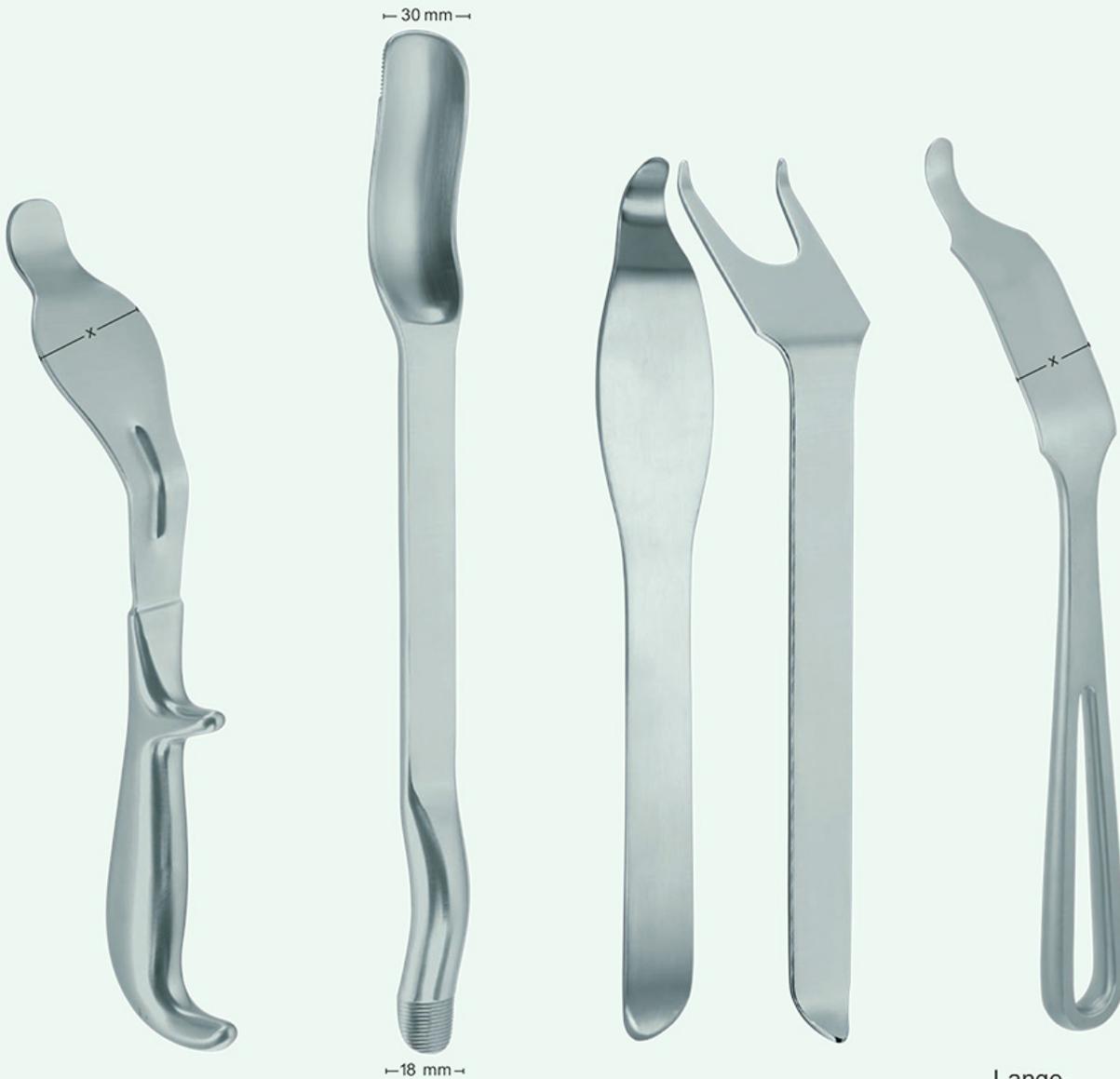
Bristow

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 ½"

Murphy-Lane

12-872-34

34 cm - 13 ½"

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

Blount

12-873-26

Lane

12-874-26

26 cm - 10 ¼"

**Lange-
Hohmann mod.**

12-875-26

26.5 cm - 10 ½"

x = 30 mm

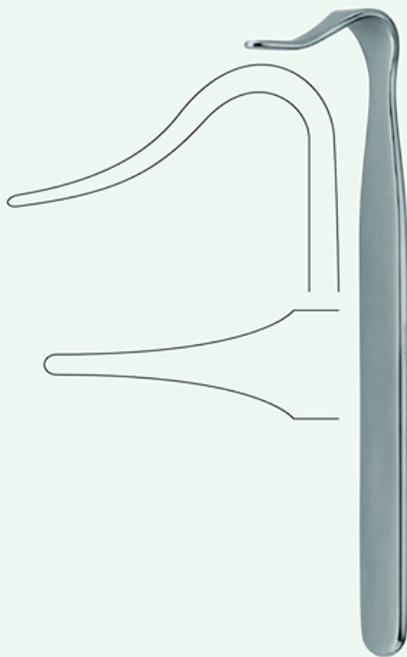
12-876-28

28 cm - 11"

x = 33 mm



Hohmann-Williger
 12-877-16
 16 cm - 6 ¼"



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 ½"

Meniscotomy knives
 Meniskotome
 Bisturías para meniscos
 Bistouries à ménisques
 Coltelli Meniscotomy



Bircher
 12-881-19
 19 cm - 7 ½"



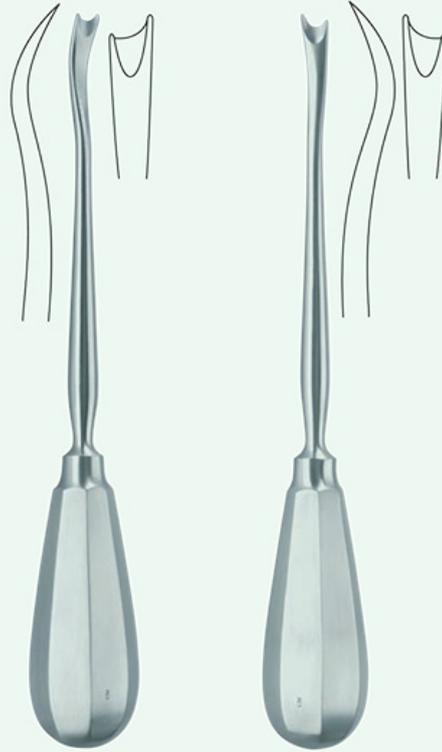
Smillie
 12-882-17
 17 cm - 6 ¾"
 Fig. 1



12-883-17
 17 cm - 6 ¾"
 Fig. 2



12-884-17
 17 cm - 6 ¾"
 Fig. 3



Kanadisches Modell

12-885-20

Fig. 1

12-886-20 20 cm - 8"

Fig. 2



Neff

12-887-22

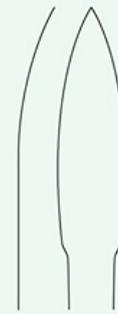
left
links
izquierda
gauche
sinistra



12-888-22

22 cm - 8 3/4"

right
rechts
derecha
droit
destra



Nilcon

12-889-18

18 cm - 7"





Wixon

12-890-23

12-891-23

12-892-23

23 cm - 9"

4.0 mmØ

4.5 mmØ

5.5 mmØ

Malleable shaft
 Schaft biegsam
 Tige malléable
 Tija maleable
 Asta malleabile



Bunnell

12-893-15

12-894-15

12-895-15

15 cm - 6"

Fig.1

Fig.2

Fig.3



12-896-15

12-897-15

Fig.4

Fig.5



Fischer

12-898-31

31 cm - 12 1/4"



Bunnell

12-899-23

23 cm - 9"

Tendon passer
Sehnen durchzugs 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
 Pinces pour saisir les tendons
 Tendine tenendo forcipe



Brand

12-901-15

15 cm - 6"



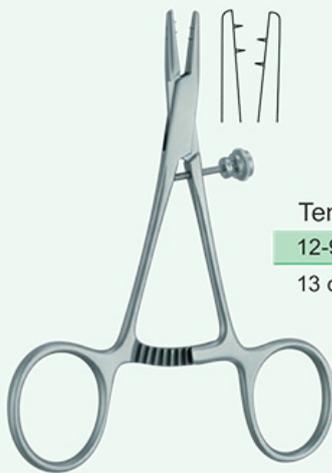
12-902-19

19 cm - 7 1/2"



12-903-24

24 cm - 9 1/2"



Tendon

12-904-13

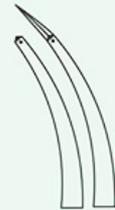
13 cm - 5"



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

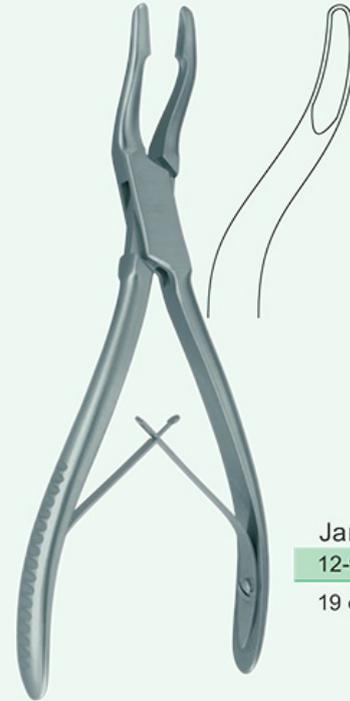
18 cm - 7"
Fig.2



Mini-
Friedmann
12-916-12
12 cm - 4 ¾"



Friedmann
12-917-14
14 cm - 5 ½"



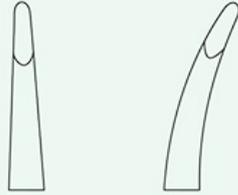
Jansen
12-918-19
19 cm - 7 ½"



Adson
12-919-20
20 cm - 8"



Bacon
12-920-21
21 cm - 8 ¼"



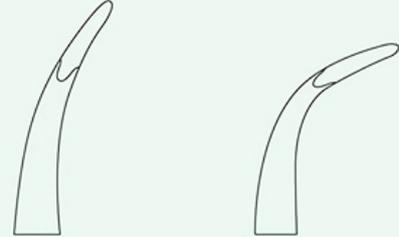
Lempert

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 1/2"



Cleveland
 12-928-17
 17 cm - 6 3/4"



Cleveland
 12-929-14
 14 cm - 5 1/2"



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"

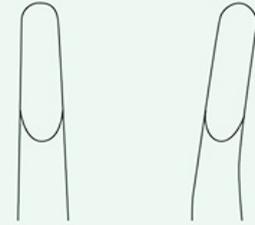




Beyer
12-934-18
18 cm - 7"



Ruskin
12-935-18
18 cm - 7"



12-936-18
18 cm - 7"



Mayfield
12-937-17
17.5 cm - 7"



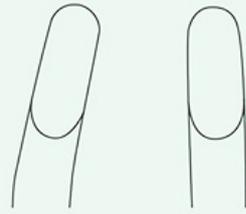
Stille-Ruskin

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"



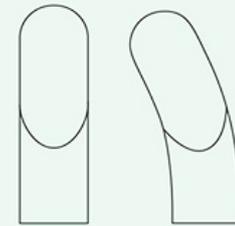
Stille-Luer

12-946-22

22 cm - 8 3/4"

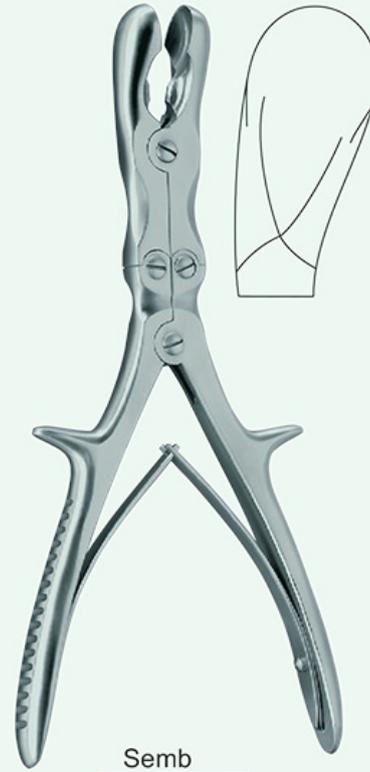
12-947-22

22 cm - 8 3/4"





Röttgen-
Ruskin
12-948-23
23 cm - 9"



Semb
12-949-24
24 cm - 9 ½"



Echlin
12-950-23
23 cm - 9"



12-951-23
23 cm - 9"



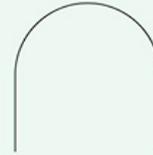
Frykholm
12-952-24
24 cm - 9 ½"



Sauerbruch

12-953-30

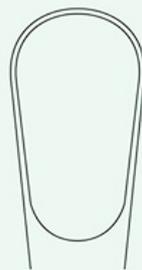
Fig. 1



12-454-30

30 cm - 12"

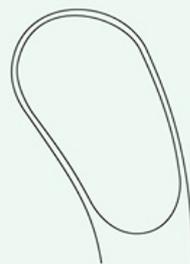
Fig. 2



Luer-Stille

12-955-27

Fig. 1



12-956-27

27 cm - 10 3/4"

Fig. 2

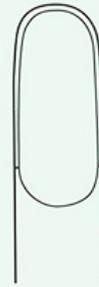




Sypert

12-250-08

36 cm - 14 1/4"
8 mm

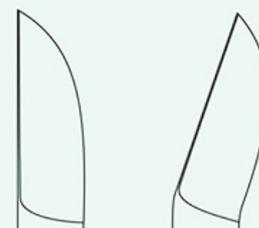


12-250-12

36 cm - 14 1/4"
12 mm



Cottle-
Kazanjan
 12-957-19
 19 cm - 7 ½"



Liston

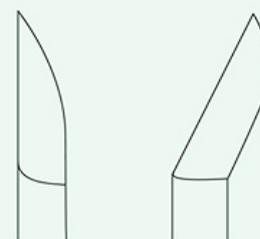
12-958-14	12-959-14	14 cm - 5 ½"
12-958-17	12-959-17	17 cm - 6 ¾"
12-958-19	12-959-19	19 cm - 7 ½"
12-958-22	12-959-22	22 cm - 8 ¾"



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

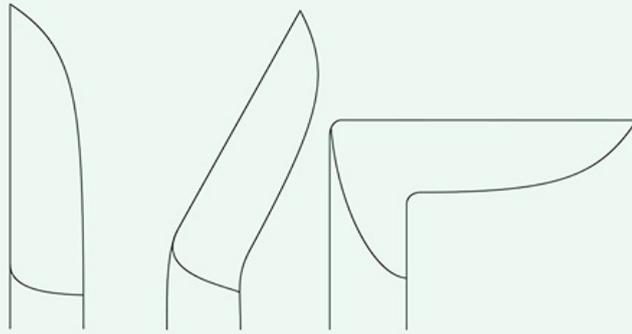


12-961-16
 15 cm - 6"
 Fig. 2



Ruskin-
Liston

12-962-18	12-963-18
18.5 cm - 7 ¼" Fig. 1	18.5 cm - 7 ¼" Fig. 2



Stille-Liston

12-964-27

Fig. 1

12-965-27

Fig. 2

12-966-27

Fig. 3

27 cm - 10 3/4"



Semb

12-967-24

24 cm - 9 1/2"



Liston-Key Horsley

12-968-27

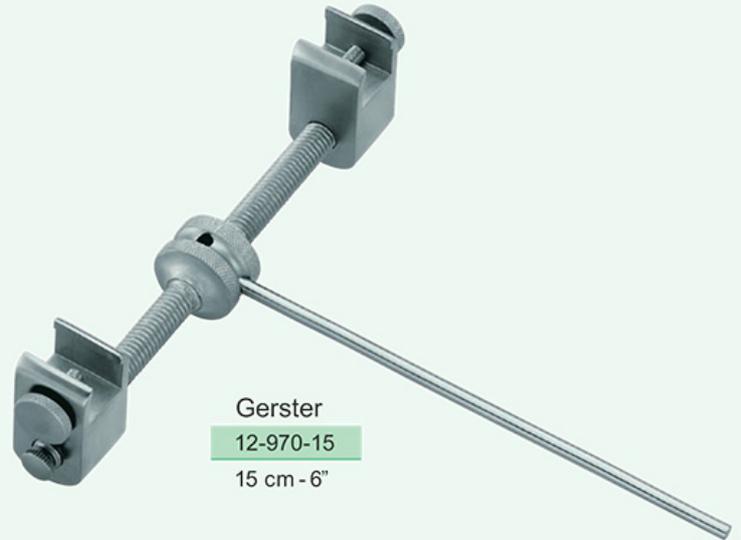
27 cm - 10 3/4"

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
 Knochenhalteforceps – 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 ¼"



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

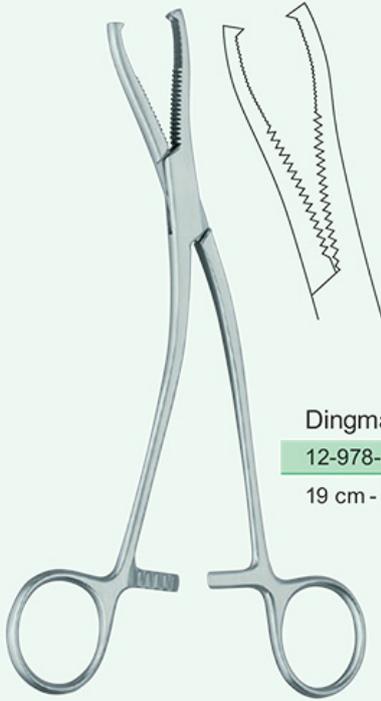


Langenbeck
12-976-21
21 cm - 8 ¼"



Semb
12-977-19
19 cm - 7 ½"

Bone holding forceps
 Knochenhalte­zangen
 Pinzas para huesos
 Daviers porte-os
 Pinza tenendo Bone

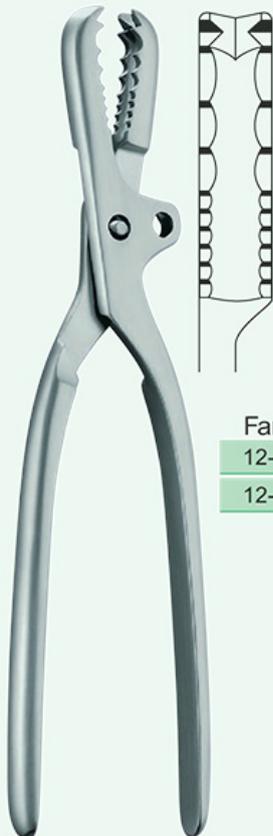


Dingmann
 12-978-19
 19 cm - 7 1/2"



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

Sequestrum forceps
 Sequesterzange
 Pinza para Sequestrum
 Pince pour Sequestrum
 Pinza per Sequestrum



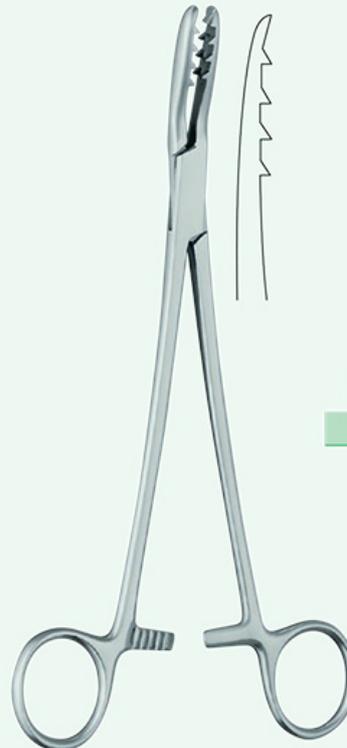
Farabeuf
 12-981-23 23 cm - 9"
 12-982-26 26 cm - 10 1/4"



Farabeuf-Lambotte
 12-983-26 26 cm - 10 1/4"



Martin
12-984-19
19 cm - 7 ½"



Bircher-Ganske

12-985-20



12-986-20

20 cm - 8"



Hey Groves

12-987-21 21 cm - 8 ¼" x = 6.5 mm

12-987-27 27 cm - 10 ¾" x = 7.5 mm

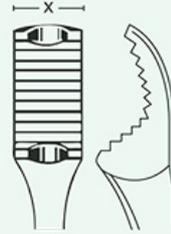
12-987-30 30.5 cm - 12" x = 8.5 mm



Verbrugge

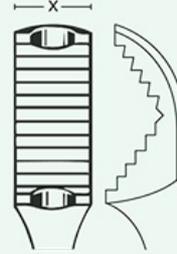
12-988-17

17.5 cm - 7"
 x = 5.0 mm



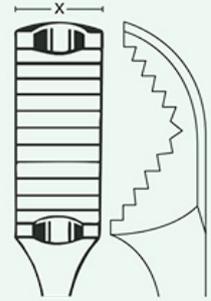
12-989-25

25 cm - 10"
 x = 9.5 mm



12-990-26

26 cm - 10 ¼"
 x = 10.5 mm



12-991-27

27 cm - 10 ¾"
 x = 12.0 mm



Kern

12-992-17 17 cm - 6 ¾"

12-992-21 21 cm - 8 ¼"



Kern

12-993-17 17 cm - 6 ¾"

12-993-21 21 cm - 8 ¼"

Self-retaining



Lane

12-995-33 33 cm - 13"

12-995-45 45 cm - 17 ¾"



Lane

12-994-33 33 cm - 13"

12-994-45 45 cm - 17 ¾"

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

Lumbar

12-997-15 15 cm - 6" x = 2.5 mm

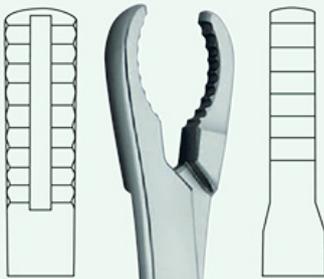
12-997-19 19 cm - 7 ½" x = 6.5 mm

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 ¼"
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"

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

surgimax™
saving lives



Minipal

12-101-13

13.5 cm - 5 ¼"



Reill

12-102-17

17 cm - 6 ¾"



Hogan

12-103-20

20 cm - 8"

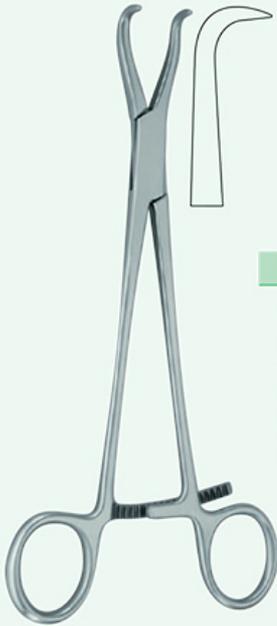


Sadle

12-104-13

13.5 cm - 5"

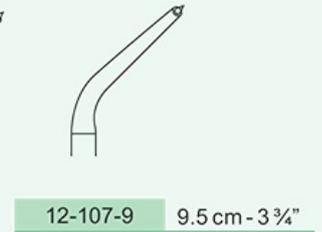
for maxillary reposition
für Kieferreposition
para reposición mandibular
pour reposition mandibulaire
per riposizione mandibulare



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 ¼"



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 3/4"

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 fino 2.2 mm Ø, per fili morbidi fino a 3 mm Ø



Taxon

12-117-22 22 cm - 8 3/4"

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 fino 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 fino 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 duri 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

Wire cutting forceps
 Drahtschneidezangen
 Alicates para cortar alambre
 Pinces coupantes
 Pinze di taglio filo

surgimax™
 saving lives



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 3mm Ø



Passor

12-126-13 13 cm - 5"

12-126-18 18 cm - 7"



Flat one

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

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



Flat pro

12-128-05 12-129-05 x = 5 mm

12-128-05 12-129-07 x = 7 mm

18 cm - 7"

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 ¼"

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



Fig. 2
 12-134-18

18.5 cm - 7 ¼"

Flat nose plier, parallel grip, incorporated cutter, for hard wires up to 1.6 mm Ø
 Flachzange mit Seitenschneider, parallelfassend, 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 ½"

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 ½"

Plattenbiegezange für Knochenplatten bis 4 mm Stärke
 Plate bending plier for plates up to 4 mm
 Pince à conder pour des plaques de 4 mm
 Pinza para torcer, para placas hasta mm 4
 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"

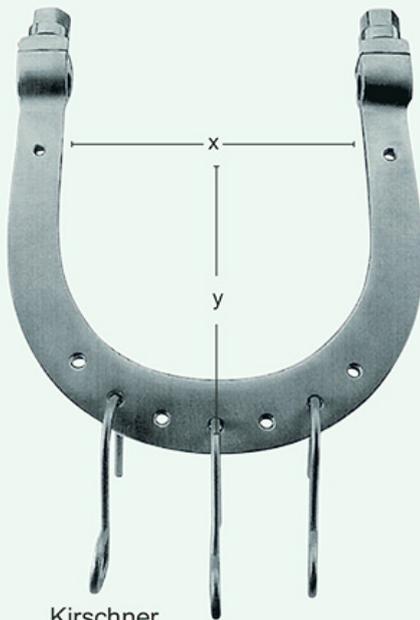
Locking plier



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

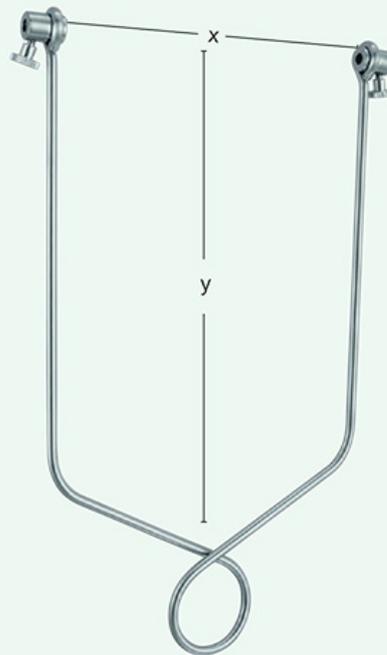


Kirschner

12-142-18 x = 180 mm y = 100 mm

12-142-27 x = 270 mm y = 160 mm

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

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



Key

12-144-19 19 cm - 7 1/2"

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 brazaletes 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 mmØ



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"

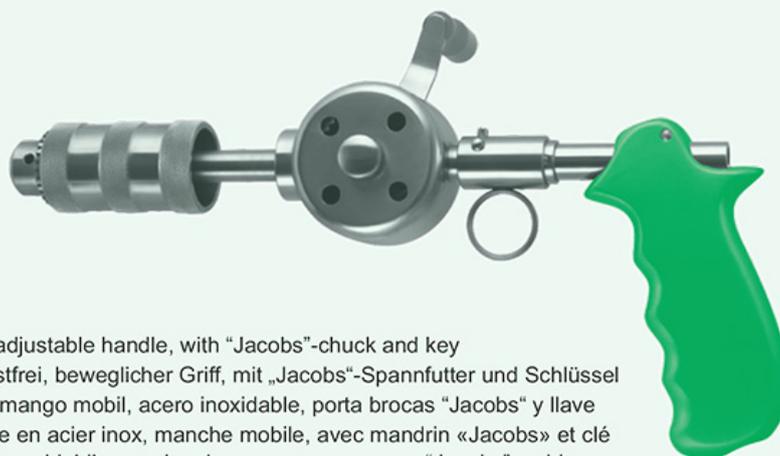
Opening up to 6.35 mm Ø
Öffnung bis 6,35 mm Ø
Apertura hasta 6.35 mm Ø
Ouverture jusqu'à 6.35 mm Ø
Apertura fino à 6.35 mm Ø



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

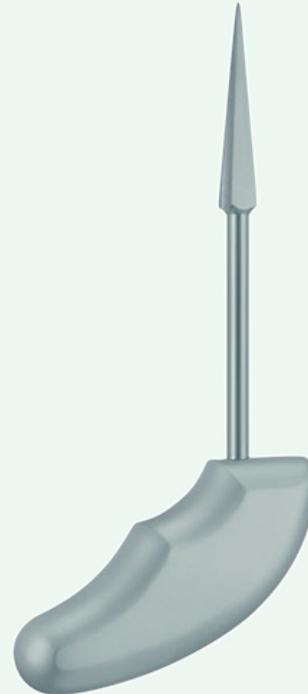


Drill

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

AOshank
 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 ¼"



Fig. 2

12-167-14
 14 cm - 5 ½"



Fig. 3

12-168-14
 14 cm - 5 ½"