

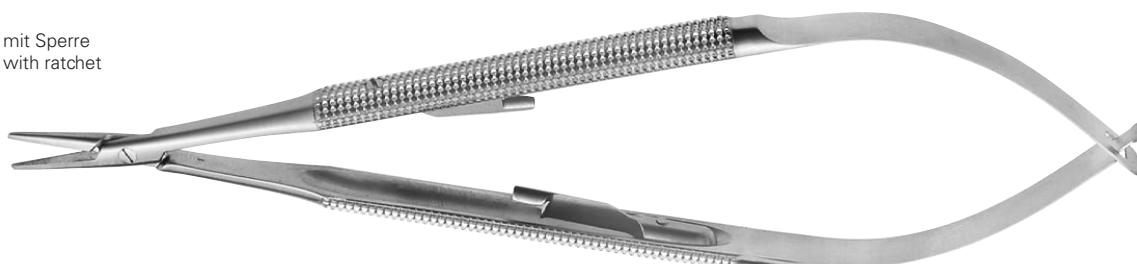
17/18

Nadelhalter, Rundgriff

Needle holders, round handle



mit Sperre
with ratchet



11 x 0,4 mm



11 x 0,4 mm



11 x 0,8 mm



11 x 0,8 mm

MICRO Ø 9 mm

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
15,0 cm, 6 "	17-664-15 Ø 8 mm	17-665-15 Ø 8 mm		
18,0 cm, 7 "	17-664-18	17-665-18	17-660-18	17-661-18
21,0 cm, 8 ¼ "			17-660-21	17-661-21
23,0 cm, 9 "			17-660-23	17-661-23

ohne Sperre
without ratchet



11 x 0,4 mm



11 x 0,4 mm



11 x 0,8 mm



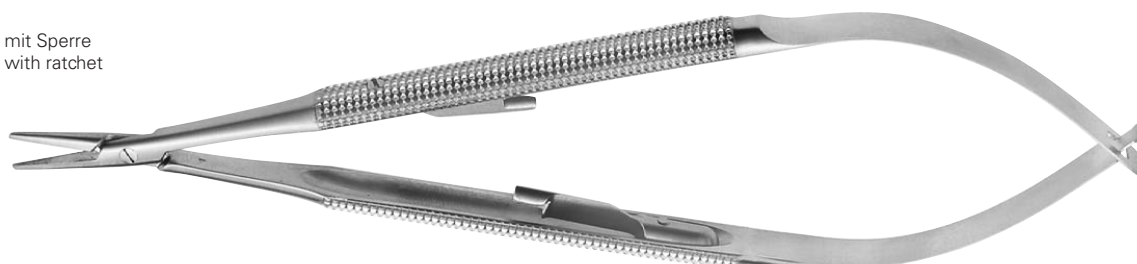
11 x 0,8 mm

MICRO Ø 9 mm

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
15,0 cm, 6 "	17-666-15 Ø 8 mm	17-667-15 Ø 8 mm		
18,0 cm, 7 "	17-666-18	17-667-18	17-662-18	17-663-18
21,0 cm, 8 ¼ "			17-662-21	17-663-21
23,0 cm, 9 "			17-662-23	17-663-23



mit Sperre
with ratchet



MICRO Ø 9 mm

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
				
15,0 cm, 6 "	17-664-15 D Ø 8 mm	17-665-15 D Ø 8 mm		
18,0 cm, 7 "			17-660-18 D	17-661-18 D
21,0 cm, 8 ¼ "			17-660-21 D	17-661-21 D
23,0 cm, 9 "			17-660-23 D	17-661-23 D

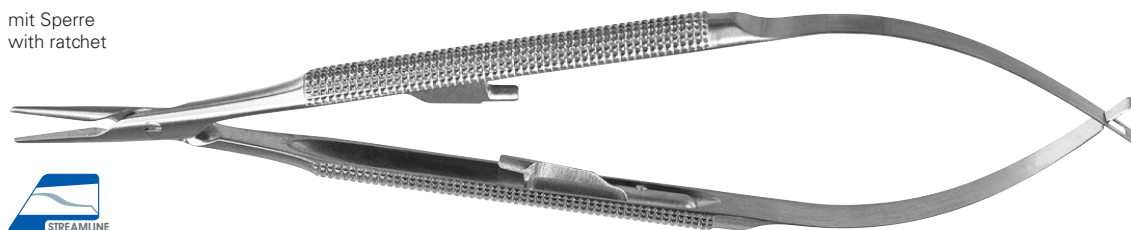
ohne Sperre
without ratchet



MICRO Ø 9 mm

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
				
15,0 cm, 6 "	17-666-15 D Ø 8 mm	17-667-15 D Ø 8 mm		
18,0 cm, 7 "	17-666-18 D	17-667-18 D		
21,0 cm, 8 ¼ "			17-662-21 D	17-663-21 D
23,0 cm, 9 "			17-662-23 D	17-663-23 D

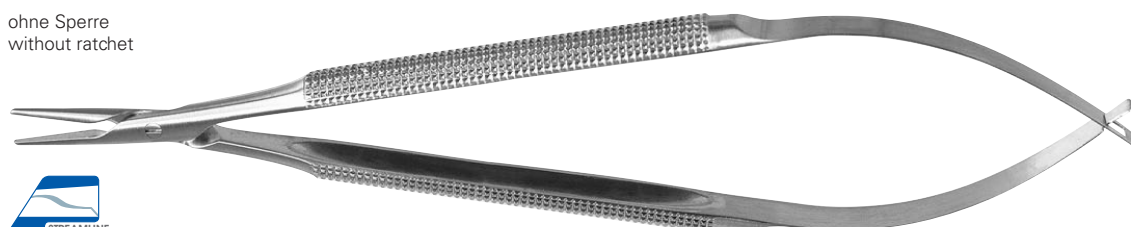
mit Sperre
with ratchet



MICRO Ø 9 mm

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
15,0 cm, 6 "	17-664-15 S Ø 8 mm	17-665-15 S Ø 8 mm	17-660-15 S Ø 8 mm	17-661-15 S Ø 8 mm
18,0 cm, 7 "	17-664-18 S	17-665-18 S	17-660-18 S	17-661-18 S
21,0 cm, 8 ¼ "			17-660-21 S	17-661-21 S
23,0 cm, 9 "			17-660-23 S	17-661-23 S

ohne Sperre
without ratchet

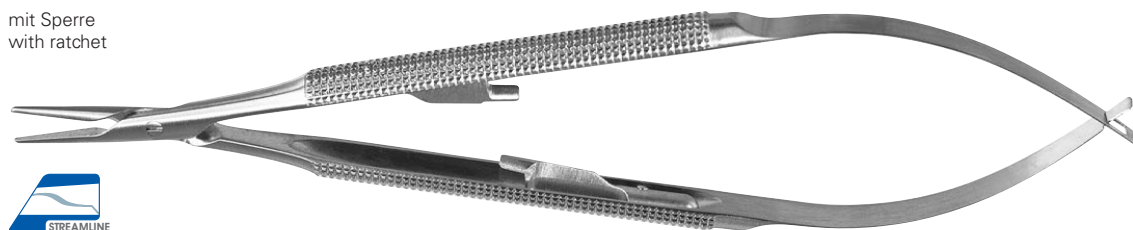


MICRO Ø 9 mm

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
15,0 cm, 6 "	17-666-15 S Ø 8 mm	17-667-15 S Ø 8 mm	17-662-15 S Ø 8 mm	17-663-15 S Ø 8 mm
18,0 cm, 7 "	17-666-18 S	17-667-18 S	17-662-18 S	17-663-18 S
21,0 cm, 8 ¼ "			17-662-21 S	17-663-21 S
23,0 cm, 9 "			17-662-23 S	17-663-23 S



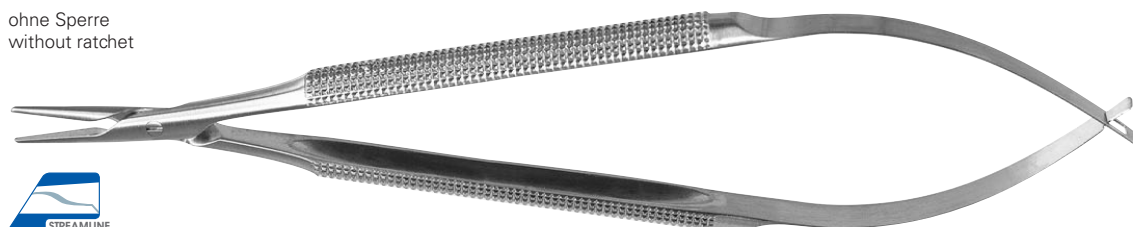
mit Sperre
with ratchet



MICRO Ø 9 mm

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
				
15,0 cm, 6 "	17-664-15 SD Ø 8 mm	17-665-15 SD Ø 8 mm	17-660-15 SD	17-661-15 SD
18,0 cm, 7 "	17-664-18 SD	17-665-18 SD	17-660-18 SD	17-661-18 SD
21,0 cm, 8 ¼ "			17-660-21 SD	17-661-21 SD
23,0 cm, 9 "			17-660-23 SD	17-661-23 SD

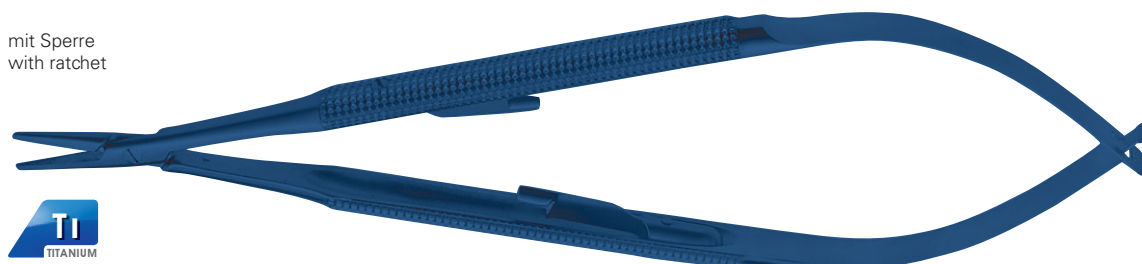
ohne Sperre
without ratchet



MICRO Ø 9 mm

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
				
15,0 cm, 6 "	17-666-15 SD Ø 8 mm	17-667-15 SD Ø 8 mm	17-662-15 SD	17-663-15 SD
18,0 cm, 7 "	17-666-18 SD	17-667-18 SD	17-662-18 SD	17-663-18 SD
21,0 cm, 8 ¼ "			17-662-21 SD	17-663-21 SD
23,0 cm, 9 "			17-662-23 SD	17-663-23 SD

mit Sperre
with ratchet



11 x 0,4 mm



11 x 0,4 mm



11 x 0,8 mm



11 x 0,8 mm

MICRO Ø 8 mm

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
15,0 cm, 6 "	17-664-15 T	17-665-15 T	17-660-15 T	17-661-15 T
18,0 cm, 7 "	17-664-18 T	17-665-18 T	17-660-18 T	17-661-18 T
21,0 cm, 8 ¼ "	17-664-21 T	17-665-21 T	17-660-21 T	17-661-21 T

ohne Sperre
without ratchet



11 x 0,4 mm



11 x 0,4 mm



11 x 0,8 mm



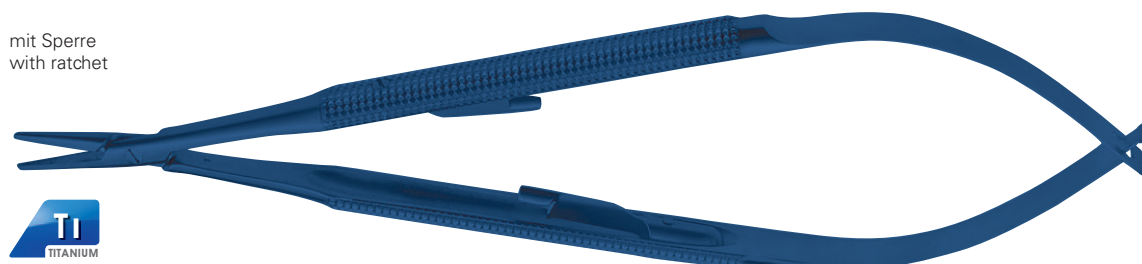
11 x 0,8 mm

MICRO Ø 8 mm

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
15,0 cm, 6 "	17-666-15 T	17-667-15 T	17-662-15 T	17-663-15 T
18,0 cm, 7 "	17-666-18 T	17-667-18 T	17-662-18 T	17-663-18 T
21,0 cm, 8 ¼ "	17-666-21 T	17-667-21 T	17-662-21 T	17-663-21 T



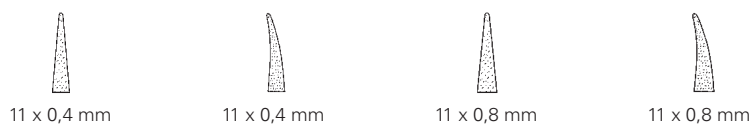
mit Sperre
with ratchet



MICRO Ø 8 mm

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
				
15,0 cm, 6 "	17-664-15 DT	17-665-15 DT	17-660-15 DT	17-661-15 DT
18,0 cm, 7 "	17-664-18 DT	17-665-18 DT	17-660-18 DT	17-661-18 DT
21,0 cm, 8 ¼ "	17-664-21 DT	17-665-21 DT	17-660-21 DT	17-661-21 DT

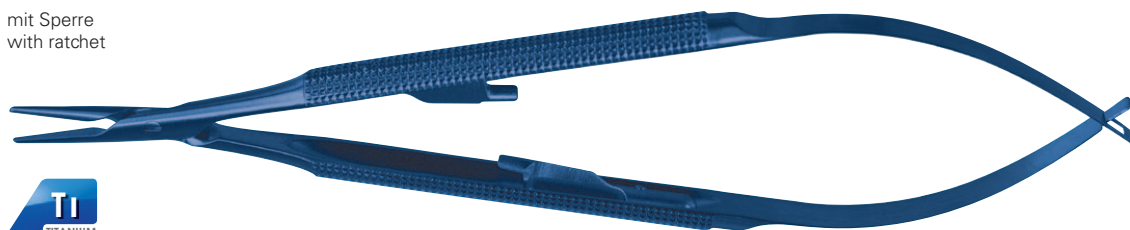
ohne Sperre
without ratchet



MICRO Ø 8 mm

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
				
15,0 cm, 6 "	17-666-15 DT	17-667-15 DT	17-662-15 DT	17-663-15 DT
18,0 cm, 7 "	17-666-18 DT	17-667-18 DT	17-662-18 DT	17-663-18 DT
21,0 cm, 8 ¼ "	17-666-21 DT	17-667-21 DT	17-662-21 DT	17-663-21 DT

mit Sperre
with ratchet



11 x 0,4 mm



11 x 0,4 mm



11 x 0,8 mm

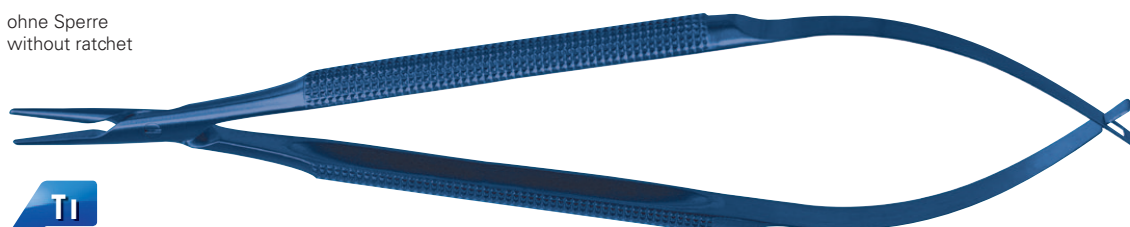


11 x 0,8 mm

MICRO Ø 8 mm

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
15,0 cm, 6 "	17-664-15 ST	17-665-15 ST	17-660-15 ST	17-661-15 ST
18,0 cm, 7 "	17-664-18 ST	17-665-18 ST	17-660-18 ST	17-661-18 ST
21,0 cm, 8 ¼ "			17-660-21 ST	17-661-21 ST

ohne Sperre
without ratchet



11 x 0,4 mm



11 x 0,4 mm



11 x 0,8 mm



11 x 0,8 mm

MICRO Ø 8 mm

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
15,0 cm, 6 "	17-666-15 ST	17-667-15 ST	17-662-15 ST	17-663-15 ST
18,0 cm, 7 "	17-666-18 ST	17-667-18 ST	17-662-18 ST	17-663-18 ST
21,0 cm, 8 ¼ "			17-662-21 ST	17-663-21 ST



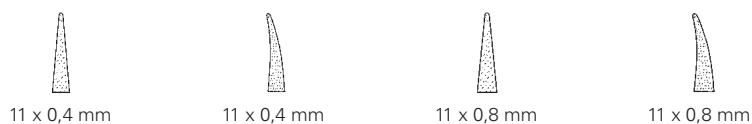
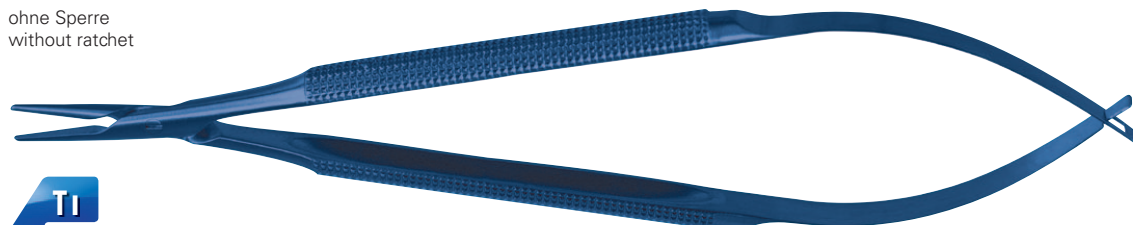
mit Sperre
with ratchet



MICRO Ø 8 mm

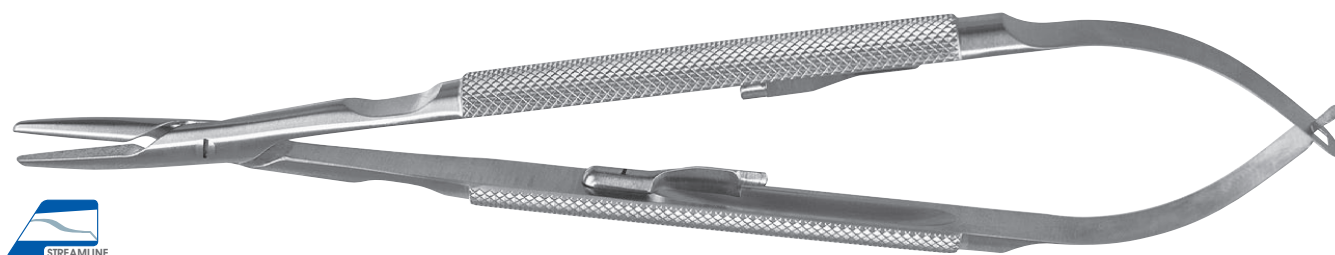
Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
15,0 cm, 6 "	17-664-15 SDT	17-665-15 SDT	17-660-15 SDT	17-661-15 SDT
18,0 cm, 7 "	17-664-18 SDT	17-665-18 SDT	17-660-18 SDT	17-661-18 SDT
21,0 cm, 8 ¼ "			17-660-21 SDT	17-661-21 SDT

ohne Sperre
without ratchet



MICRO Ø 8 mm

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
15,0 cm, 6 "	17-666-15 SDT	17-667-15 SDT	17-662-15 SDT	17-663-15 SDT
18,0 cm, 7 "	17-666-18 SDT	17-667-18 SDT	17-662-18 SDT	17-663-18 SDT
21,0 cm, 8 ¼ "			17-662-21 SDT	17-663-21 SDT



18,0 x 2,0 mm



18,0 x 2,0 mm



18,0 x 2,0 mm



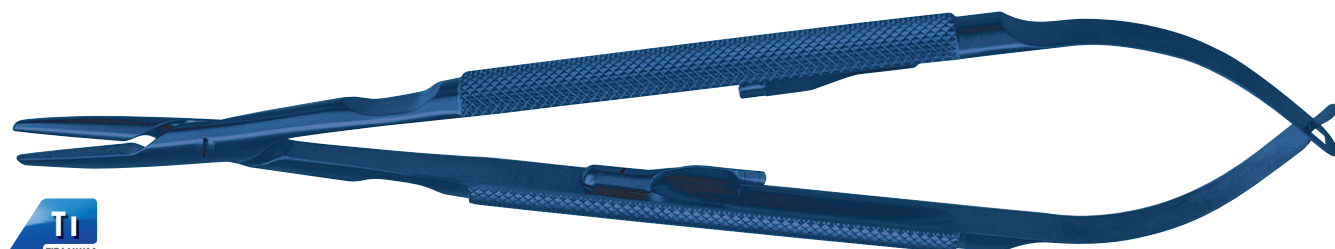
18,0 x 2,0 mm

MICRO Ø 10 mm

mit Sperre
with ratchet

ohne Sperre
without ratchet

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
				
19,0 cm, 7 1/2 "	17-650-19 SD	17-651-19 SD	17-652-19 SD	17-653-19 SD
23,0 cm, 9 "	17-650-23 SD	17-651-23 SD	17-652-23 SD	17-653-23 SD
25,0 cm, 9 3/4 "	17-650-25 SD	17-651-25 SD	17-652-25 SD	17-653-25 SD



18,0 x 2,0 mm



18,0 x 2,0 mm



18,0 x 2,0 mm



18,0 x 2,0 mm

MICRO Ø 10 mm

mit Sperre
with ratchet

ohne Sperre
without ratchet

Gesamtlänge Total length	gerade straight	gebogen curved	gerade straight	gebogen curved
				
19,0 cm, 7 1/2 "	17-650-19 SDT	17-651-19 SDT	17-652-19 SDT	17-653-19 SDT
23,0 cm, 9 "	17-650-23 SDT	17-651-23 SDT	17-652-23 SDT	17-653-23 SDT
25,0 cm, 9 3/4 "	17-650-25 SDT	17-651-25 SDT	17-652-25 SDT	17-653-25 SDT



REILL Ø 8 mm

17-668-15 - 17-669-15 15,0 cm, 6 "



REILL Ø 8 mm

17-670-15 - 17-671-15 15,0 cm, 6 "



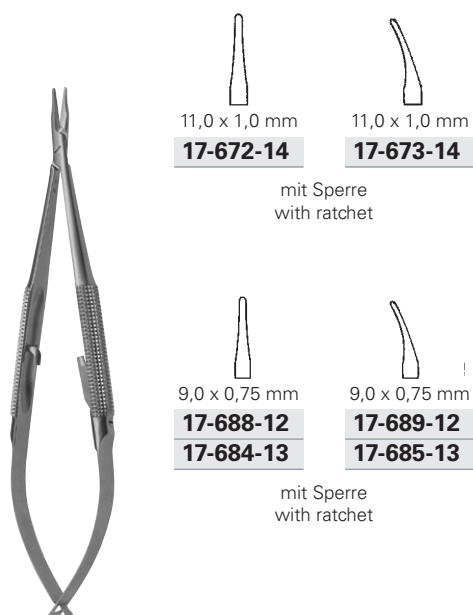
REILL Ø 8 mm

17-668-15 D - 17-669-15 D 15,0 cm, 6 "



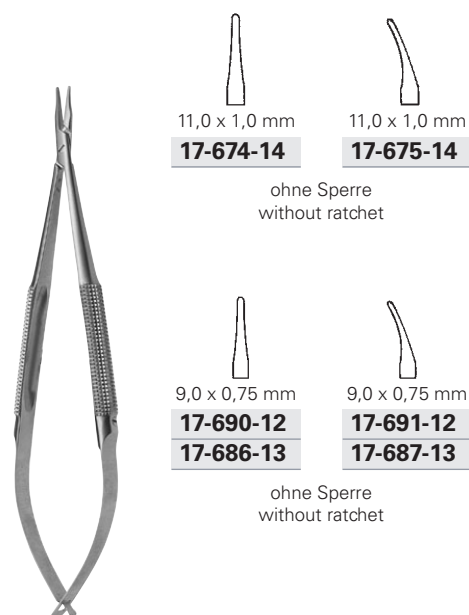
REILL Ø 8 mm

17-670-15 D - 17-671-1 D 15,0 cm, 6 "



BARRAQUER Ø 8 mm

17-688-12 - 17-689-12	12,0 cm, 4 $\frac{3}{4}$ "
17-684-13 - 17-685-13	13,5 cm, 5 $\frac{1}{4}$ "
17-672-14 - 17-673-14	14,0 cm, 5 $\frac{1}{2}$ "



BARRAQUER Ø 8 mm

17-690-12 - 17-691-12	12,0 cm, 4 $\frac{3}{4}$ "
17-686-13 - 17-687-13	13,5 cm, 5 $\frac{1}{4}$ "
17-674-14 - 17-675-14	14,0 cm, 5 $\frac{1}{2}$ "



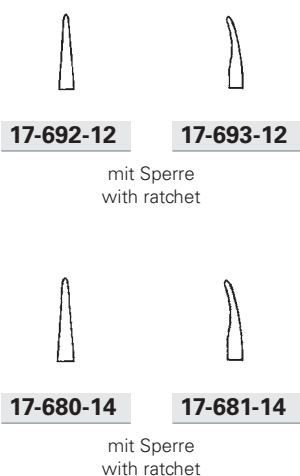
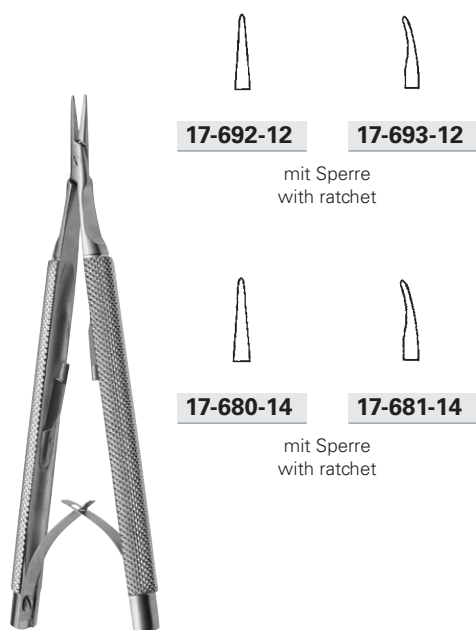
MICRO-BARRAQUER Ø 8 mm

17-676-14 - 17-677-14	14,0 cm, 5 $\frac{1}{2}$ "
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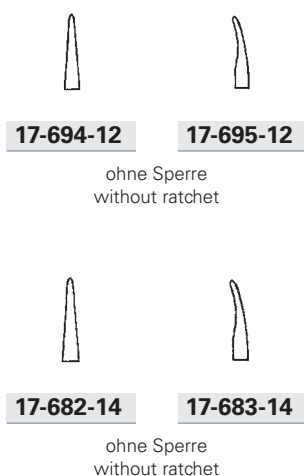
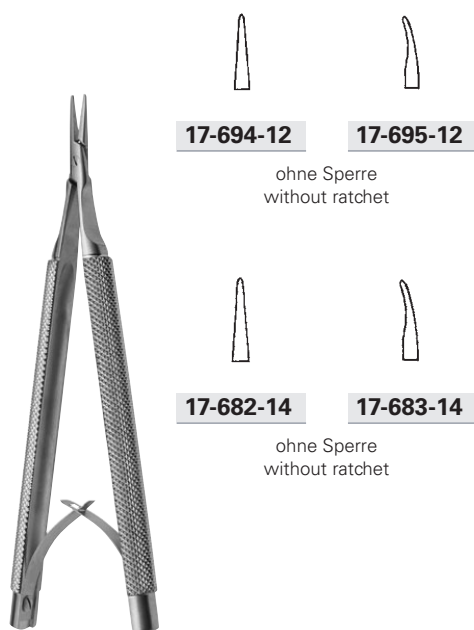
MICRO-BARRAQUER Ø 8 mm

17-678-14 - 17-679-14	14,0 cm, 5 $\frac{1}{2}$ "
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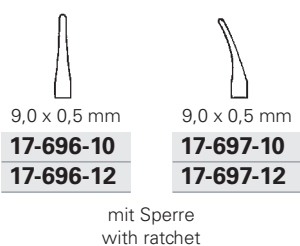
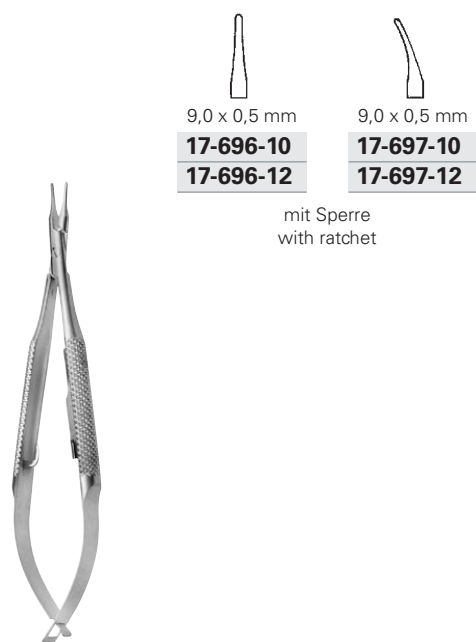
CASTROVIEJO

17-692-12 - 17-693-12	12,0 cm, 4 $\frac{3}{4}$ "	Ø 8 mm
17-680-14 - 17-681-14	14,0 cm, 5 $\frac{1}{2}$ "	Ø 10 mm



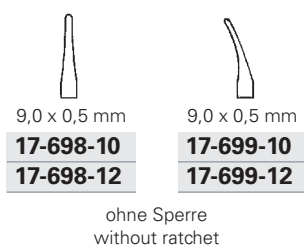
CASTROVIEJO

17-694-12 - 17-695-12	12,0 cm, 4 $\frac{3}{4}$ "	Ø 8 mm
17-682-14 - 17-683-14	14,0 cm, 5 $\frac{1}{2}$ "	Ø 10 mm



BARRAQUER-TROUTMAN

17-696-10 - 17-697-10	10,0 cm, 4 "	Ø 6 mm
17-696-12 - 17-697-12	12,5 cm, 5 "	Ø 7 mm



BARRAQUER-TROUTMAN

17-698-10 - 17-699-10	10,0 cm, 4 "	Ø 6 mm
17-698-12 - 17-699-12	12,5 cm, 5 "	Ø 7 mm



2,0 mm

17-648-18 D

17-648-21 D

doppelt übersetzt
double action



GREGORY Ø 10 mm

17-648-18 D 18,0 cm, 7 "

17-648-21 D 21,0 cm, 7 ¼ "



1,8 mm

18-656-17

mit Sperre
with ratchet



WACHTEL Ø 9 mm

18-656-17 17,0 cm, 6 ¾ "



18-658-18

mit Sperre
with ratchet



HEPP-SCHIEDEL Ø 8 mm

18-658-18 18,0 cm, 7 "



18-660-18



18-661-18

mit Sperre
with ratchet



MICRO Ø 9 mm

18-660-18 - 18-661-18 18,0 cm, 7 "



18-662-18



18-663-18

ohne Sperre
without ratchet



18-664-18



18-665-18

ohne Sperre
without ratchet



MICRO Ø 9 mm

18-662-18 - 18-665-18 18,0 cm, 7 "



18-672-14

18-673-14

mit Sperre
with ratchet



BARRAQUER Ø 8 mm

18-672-14 - 18-673-14 14,0 cm, 5 ½ "



18-674-14

18-675-14

ohne Sperre
without ratchet



BARRAQUER Ø 8 mm

18-674-14 - 18-675-14 14,0 cm, 5 ½ "



18-680-14

18-681-14

18-680-18

18-681-18

mit Sperre
with ratchet



CASTROVIEJO Ø 10 mm

18-680-14 - 18-681-14 14,0 cm, 5 ½ "

18-680-18 - 18-681-18 18,0 cm, 7 "



17-660-15 A

17-661-15 A

17-660-18 A

17-661-18 A

mit Sperre
with ratchet



17-660-15 A - 17-661-15 A 15,0 cm, 6 "

17-660-18 A - 17-661-18 A 18,0 cm, 7 "



17-662-15 A

17-662-18 A

17-663-15 A

17-663-18 A

ohne Sperre
without ratchet

STEEL
STAINLESS

AL
ALUMINIUM

17-662-15 A - 17-663-15 A 15,0 cm, 6 "

17-662-18 A - 17-663-18 A 18,0 cm, 7 "