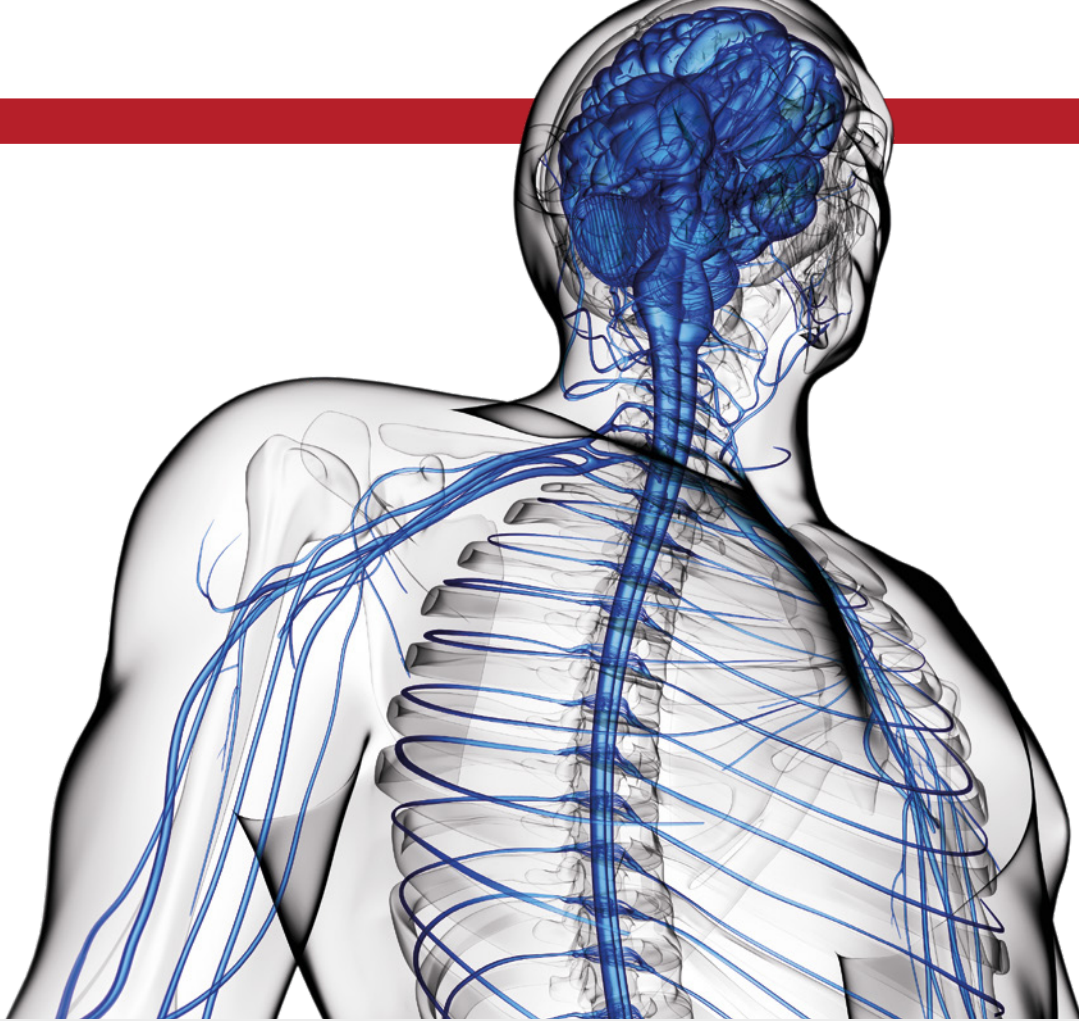


GEISTER®



Neuro and Spine Surgery  
Orthopaedic Surgery







## The better way to operate™

“Excellence is the result of caring more than others think is wise, risking more than others think is safe, dreaming more than others think is practical, and expecting more than others think is possible.”



# EFFICIENT SURGERY. LESS INVASIVE. OPTIMUM RESULTS.

**GEISTER® MEDIZINTECHNIK GMBH** - founded in 1984 - is a manufacturer and system supplier of surgical instruments for conventional open and minimal invasive (keyhole) surgery. Located in Tuttlingen in Southwest-Germany - famous capitol of the surgical industry worldwide. We are dedicated to servicing and supplying the surgical world with the highest quality instruments according to the specific requirements and helping the medical professionals with their patient care in every part in the world. Quality with best German workmanship is a global commitment for us. Our aim is to develop technical innovations for evolving, more patient friendly minimally invasive surgical procedures that yet can maintain or even exceed the long term results of proven conventional procedures.

Our owner managed family business is one of the leading German manufacturers for surgical instruments and accessories. With a considerable experience - our founder has been in this field since 1966 - in the manufacturing of delicate and highly precise surgical instrumentation, we supply a range of more than 20000 quality products for operative surgery, distributed in more than 95 countries worldwide. Purpose-oriented innovation, skilled craftsmanship and tradition, technological competence and measurable quality stand behind every surgical instrument.

Maximum responsiveness, quality, service and innovation, makes us a preferred partner for the surgical professional worldwide and keeps us on the cutting edge of the surgical instrument industry. We do not strive to sell the biggest number of surgical instruments, but always the finest ones. This goal we consequently follow.



## THE NEW SET-CONFIGURATOR

In our new Set-Configurator you can find over 20000 special surgical instruments. Search systematically for specific product codes, keywords or reference numbers or click through the various index areas. Using the bookmark function, you can generate your individual product list, which you can print or save or fast and easily request a quote.

[www.geister.com](http://www.geister.com)





Rongeurs | Wire Instruments

12

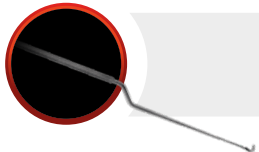
1



Retractors

62

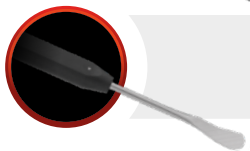
2



Micro-Hand-Instruments

120

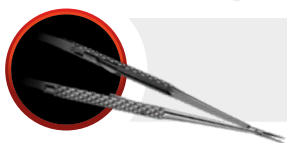
3



Curettes | Chisels | Gouges

144

4



Microsurgical Instruments

162

5

	Forceps   Clamps	198	6
	Scissors   Scalpel Handles   Knives   Saws   Drills   Burrs	262	7
	Needle Holders	300	8
	Miscellaneous	314	9
	Index	324	10

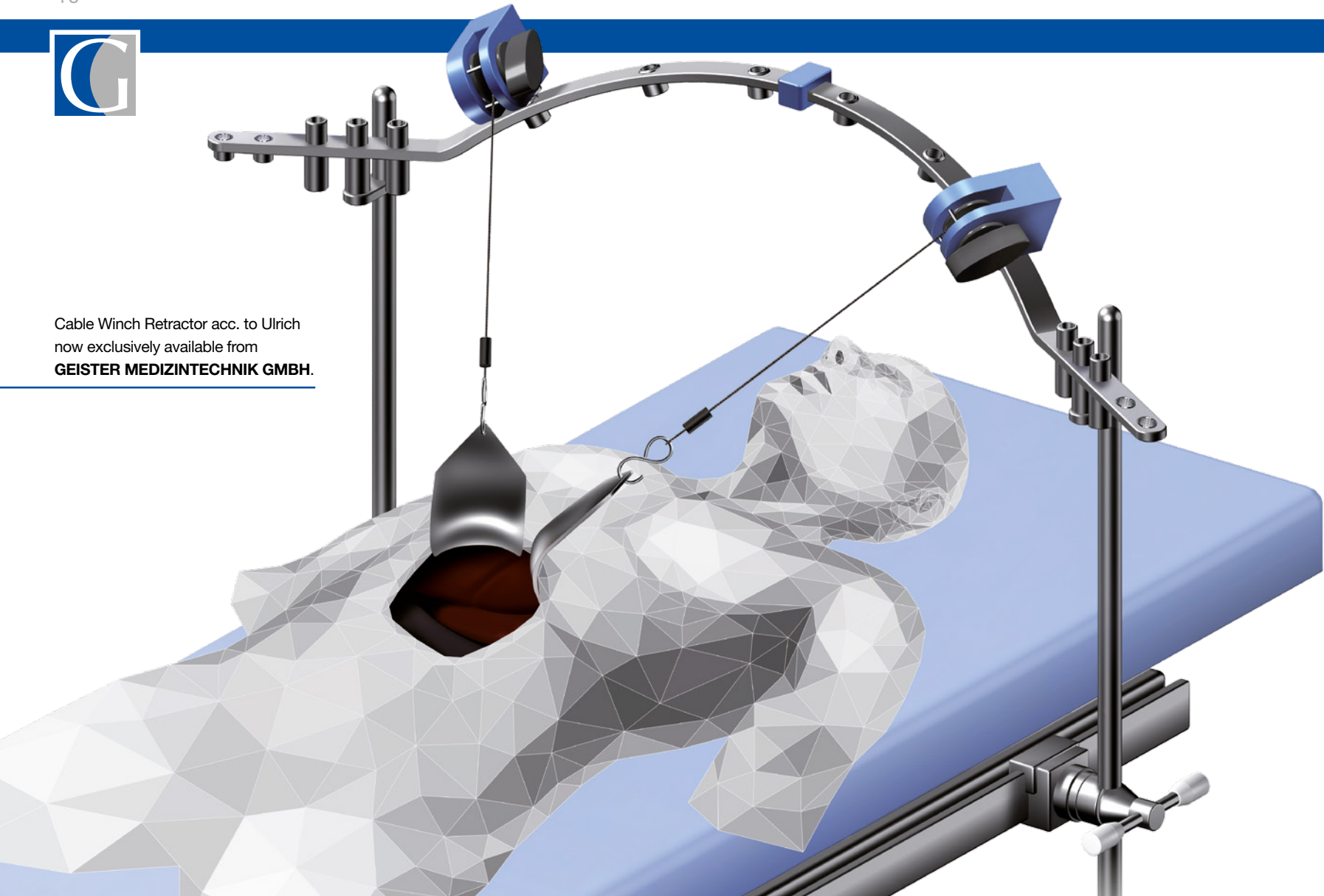








Cable Winch Retractor acc. to Ulrich  
now exclusively available from  
**GEISTER MEDIZINTECHNIK GMBH.**





# G BLUE LABEL™

**The hand of a surgeon can only be as perfect as the instrument it holds.**

This is why we attach utmost importance to the opinion of the medical profession and are happy to develop individual solutions. In this way, the surgeon can guarantee the perfection on which the patient relies. You will find a wide range of instruments in our **G BLUE LABEL™** portfolio that are only available from **GEISTER MEDIZINTECHNIK GMBH**. Instru-

ments and solutions that could only be created by systematic research and development and many years of experience in this area.

Visit the **GEISTER MEDIZINTECHNIK GMBH** Extranet – Your portal for quality services at [www.gbuelabel.de](http://www.gbuelabel.de)



Rongeurs | Wire Instruments



**K-REX™ RONGEUR  
FINALLY A TRULY  
GREAT BONE PUNCH.**

Finally a truly great bone punch



## K-Rex™ Rongeur

40-3223A4	40-3223A5	40-3223A6	40-3223A1	40-3223A2	40-3223A3	40-3223A4	40-3223A5	40-3223A6	40-3223C1	40-3223C2	40-3223C3	40-3223C4	40-3223C5	40-3223C6
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3

Working Length 280 mm / 11"

Please read "!" behind catalog references if black ceramic coating is desired. **bold = shown**  
\*Please use this fontplate for delicate use only.



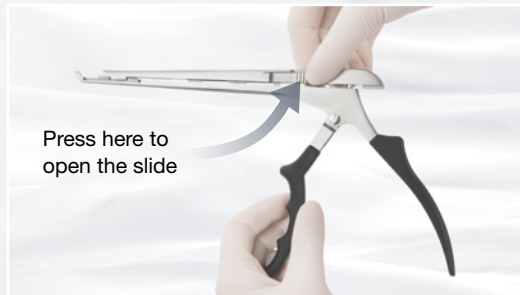
The absence of a disturbing horn thumb rest allows for a more versatile grip and better control in the palm of the hand as well as a reversed 90° down cut with the same instrument by just turning it in the hand.



# K-Rex™ Rongeur

# GEISTER®

## Instruction for cleaning:



## Ready for use:



## K-Rex™ Rongeur

detachable

Regular footplate		Thin footplate*		Width mm
90° up Art.-No.	40° up Art.-No.	90° up Art.-No.	40° up Art.-No.	
<b>Length 180 mm/7"</b>				
40-3218A1	40-3218C1	40-3318A1	40-3318C1	1
40-3218A2	40-3218C2	40-3318A2	40-3318C2	2
40-3218A3	40-3218C3	40-3318A3	<b>40-3318C3</b>	3
40-3218A4	<b>40-3218C4</b>	40-3318A4	40-3318C4	4
40-3218A5	40-3218C5	40-3318A5	40-3318C5	5
40-3218A6	40-3218C6	40-3318A6	40-3318C6	6
<b>Length 200 mm/8"</b>				
40-3220A1	40-3220C1	40-3320A1	40-3320C1	1
40-3220A2	40-3220C2	40-3320A2	40-3320C2	2
40-3220A3	40-3220C3	40-3320A3	40-3320C3	3
40-3220A4	40-3220C4	40-3320A4	40-3320C4	4
40-3220A5	40-3220C5	40-3320A5	40-3320C5	5
40-3220A6	40-3220C6	40-3320A6	40-3320C6	6
<b>Length 230 mm/9"</b>				
40-3223A1	40-3223C1	40-3323A1	40-3323C1	1
40-3223A2	40-3223C2	40-3323A2	40-3323C2	2
40-3223A3	40-3223C3	40-3323A3	40-3323C3	3
40-3223A4	40-3223C4	40-3323A4	40-3323C4	4
40-3223A5	40-3223C5	40-3323A5	40-3323C5	5
40-3223A6	40-3223C6	40-3323A6	40-3323C6	6
<b>Length 280 mm/11"</b>				
	40-3228C1			1
	40-3228C2			2
	40-3228C3			3
	40-3228C4			4
	40-3228C5			5
	40-3228C6			6

**K** Please add "K" behind catalog reference if black ceramic coating is desired.

\*Please use thin footplate for delicate use only.

**bold** = shown



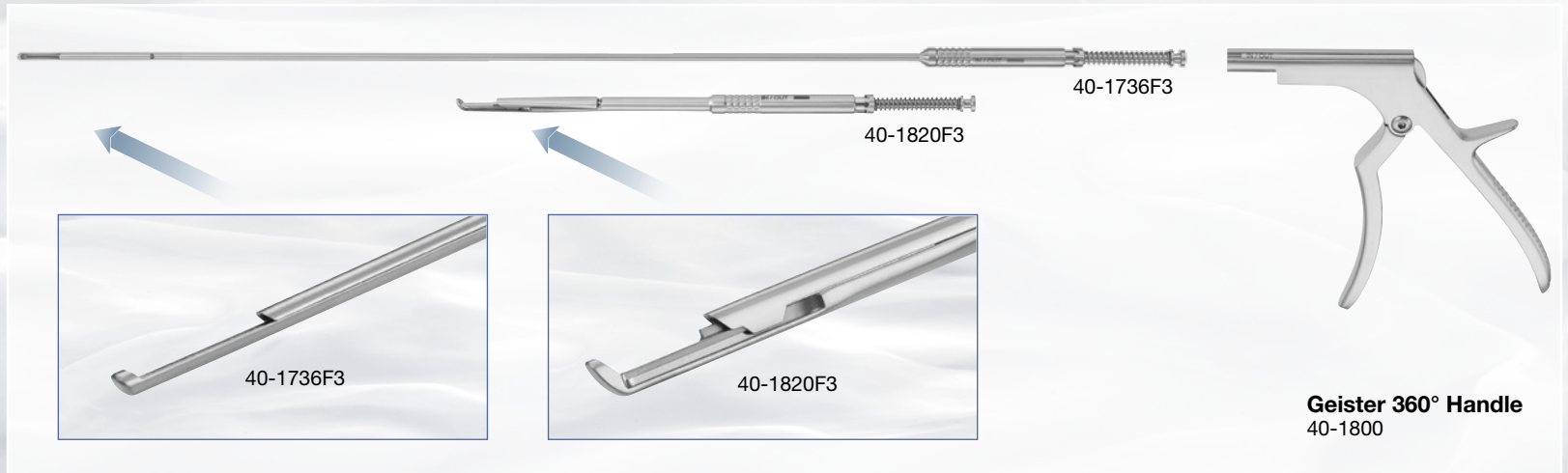
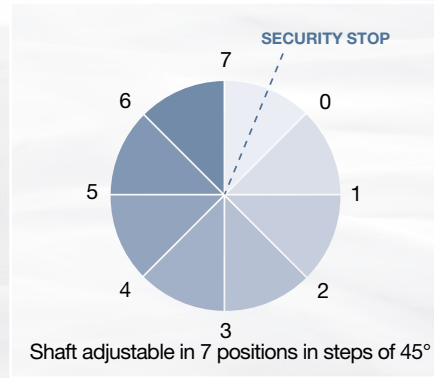
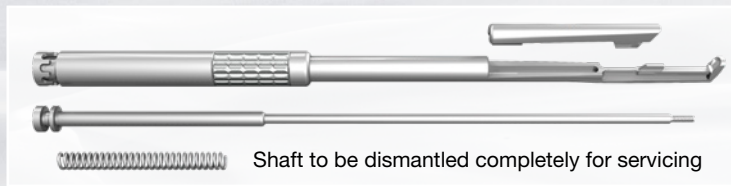
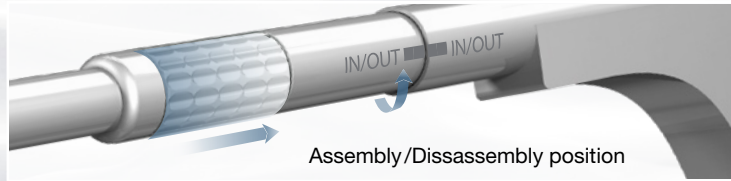
## Geister 360° Turnable Rongeur

**K** black ceramic coating



# Geister 360° Turnable Rongeur

# GEISTER®





## Geister 360° Turnable Rongeur



40-1820F3

### Geister 360° Turnable Shaft, Ejector

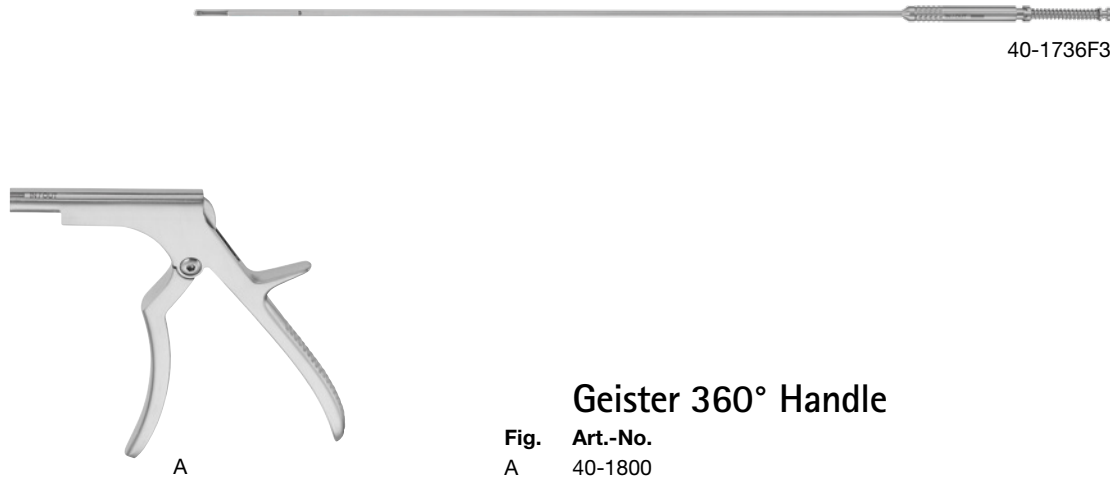
Thin Footplate\*

straight shaft		curved shaft		Width mm	straight shaft		curved shaft		Width mm
40° up Art.-No.	90° up Art.-No.	40° up Art.-No.	90° up Art.-No.		40° up Art.-No.	90° up Art.-No.	40° up Art.-No.	90° up Art.-No.	
<b>Length 180 mm/7"</b>									
40-1818F1	40-1818G1	40-1818U1	40-1818V1	1	40-1825F1	40-1825G1	40-1825U1	40-1825V1	1
40-1818F2	40-1818G2	40-1818U2	40-1818V2	2	40-1825F2	40-1825G2	40-1825U2	40-1825V2	2
40-1818F3	40-1818G3	40-1818U3	40-1818V3	3	40-1825F3	40-1825G3	40-1825U3	40-1825V3	3
40-1818F4	40-1818G4	40-1818U4	40-1818V4	4	40-1825F4	40-1825G4	40-1825U4	40-1825V4	4
40-1818F5	40-1818G5	40-1818U5	40-1818V5	5	40-1825F5	40-1825G5	40-1825U5	40-1825V5	5
<b>Length 200 mm/8"</b>									
40-1820F1	40-1820G1	40-1820U1	40-1820V1	1	40-1828F1	40-1828G1	40-1828U1	40-1828V1	1
40-1820F2	40-1820G2	40-1820U2	40-1820V2	2	40-1828F2	40-1828G2	40-1828U2	40-1828V2	2
<b>40-1820F3</b>	40-1820G3	40-1820U3	40-1820V3	3	40-1828F3	40-1828G3	40-1828U3	40-1828V3	3
40-1820F4	40-1820G4	40-1820U4	40-1820V4	4	40-1828F4	40-1828G4	40-1828U4	40-1828V4	4
40-1820F5	40-1820G5	40-1820U5	40-1820V5	5	40-1828F5	40-1828G5	40-1828U5	40-1828V5	5
<b>Length 230 mm/9"</b>									
40-1823F1	40-1823G1	40-1823U1	40-1823V1	1	40-1830F1	40-1830G1	40-1830U1	40-1830V1	1
40-1823F2	40-1823G2	40-1823U2	40-1823V2	2	40-1830F2	40-1830G2	40-1830U2	40-1830V2	2
40-1823F3	40-1823G3	40-1823U3	40-1823V3	3	40-1830F3	40-1830G3	40-1830U3	40-1830V3	3
40-1823F4	40-1823G4	40-1823U4	40-1823V4	4	40-1830F4	40-1830G4	40-1830U4	40-1830V4	4
40-1823F5	40-1823G5	40-1823U5	40-1823V5	5	40-1830F5	40-1830G5	40-1830U5	40-1830V5	5
<b>Length 300 mm/12"</b>									
40-1823F1	40-1823G1	40-1823U1	40-1823V1	1	40-1830F1	40-1830G1	40-1830U1	40-1830V1	1
40-1823F2	40-1823G2	40-1823U2	40-1823V2	2	40-1830F2	40-1830G2	40-1830U2	40-1830V2	2
40-1823F3	40-1823G3	40-1823U3	40-1823V3	3	40-1830F3	40-1830G3	40-1830U3	40-1830V3	3
40-1823F4	40-1823G4	40-1823U4	40-1823V4	4	40-1830F4	40-1830G4	40-1830U4	40-1830V4	4
40-1823F5	40-1823G5	40-1823U5	40-1823V5	5	40-1830F5	40-1830G5	40-1830U5	40-1830V5	5

bold = shown

**K** Please add "K" behind catalog reference if black ceramic coating is desired.

\*Please use thin footplate for delicate use only.



**Geister 360° turnable Endoscopic Shaft**

Thin Footplate\*

straight shaft



40° up Art.-No.	90° up Art.-No.	Shaft Ø mm
Length 180 mm/7"		
40-1718F3	40-1718G3	3
40-1718F3.5	40-1718G3.5	3.5
40-1718F4	40-1718G4	4

Length 200 mm/8"		
40-1720F3	40-1720G3	3
40-1720F3.5	40-1720G3.5	3.5
40-1720F4	40-1720G4	4

Length 230 mm/9"		
40-1723F3	40-1723G3	3
40-1723F3.5	40-1723G3.5	3.5
40-1723F4	40-1723G4	4

Length 260 mm/10¼"		
40-1726F3	40-1726G3	3
40-1726F3.5	40-1726G3.5	3.5
40-1726F4	40-1726G4	4

Length 300 mm/12"		
40-1730F3	40-1730G3	3
40-1730F3.5	40-1730G3.5	3.5
40-1730F4	40-1730G4	4

Length 360 mm/14"		
<b>40-1736F3</b>	40-1736G3	3
40-1736F3.5	40-1736G3.5	3.5
40-1736F4	40-1736G4	4

**Geister 360° Handle**

Fig. Art.-No.  
A 40-1800

**Geister 360° Turnable Bayonet Shaft, Ejector**

Thin Footplate\*

Length 180 mm/7"



straight, 40° up

Fig.	Art.-No.	Width mm
B	40-1918F1	1
B	40-1918F2	2
B	40-1918F3	3
B	40-1918F4	4
B	40-1918F5	5



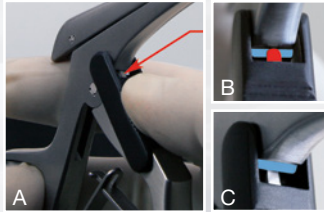
\*Please use thin footplate for delicate use only.

**K** Please add "K" behind catalog reference if black ceramic coating is desired.

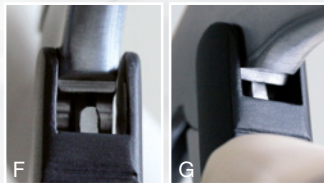
**bold** = shown



## Kerrison Rongeurs

**Disassembly and reassembly Instructions:**

1. Hold instrument as shown on picture (A) with the tip facing towards you and slightly press handle down. Observe the release nozzle marked in the picture (B) in red.
2. Press the black plastic trigger handle until the nozzle slips behind the bar, here marked in blue (C).
3. Release the handle slowly. The nozzle must always stay behind the bar. The upper shaft will now open up (D).
4. Instrument can now be thoroughly cleaned (E).



**Attention:** Do not press handle while cleaning as otherwise the nozzle will move out of the gap behind the bar (F). If this happens you must start with 1. and move it first back behind the bar (G) before reassembling!

5. For reassembling carefully push the upper shaft down into its fixation (H). Press the handle once with the other hand while still holding the upper shaft down. Instrument is then ready for use.

**Attention:** The reassembling process should work easily and smoothly. If it does not work, do not force or bend. Check and make sure the nozzle is in the gap.



- Unique function and reliable design
- Detachable for improved cleaning capability and maximum hygiene and safety
- Avoids undesired trapping of tissue and debris
- All parts stay connected even when detached
- Large plastic trigger ensures that rongeur will not disengage during use and that gloves do not get caught in the trigger mechanism
- Ergonomic handle provides maximum comfort and control, and helps to reduce fatigue
- Available in varying lengths and bite sizes
- On request by regular footplated available with integrated bone ejector for immediate bone removal (order code "E")
- Optionally with a black ceramic coating for a reduced friction and no glare



stainless satin finish



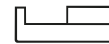
40-1220C2



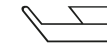
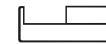
## Kerrison

stainless satin

### Regular footplate



### Thin footplate\*



90° up

40° up

90° up

40° up

Art.-No.

Art.-No.

Art.-No.

Art.-No.

Width mm

Length 180 mm/7"

40-1218A1	40-1218C1	40-1318A1	40-1318C1	1
40-1218A2	40-1218C2*	40-1318A2	40-1318C2	2
40-1218A3	40-1218C3*	40-1318A3	40-1318C3	3
40-1218A4	40-1218C4*	40-1318A4	40-1318C4	4
40-1218A5	40-1218C5*	40-1318A5	40-1318C5	5
40-1218A6	40-1218C6*	40-1318A6	40-1318C6	6

Length 200 mm/8"

40-1220A1	40-1220C1	40-1320A1	40-1320C1	1
40-1220A2	<b>40-1220C2*</b>	40-1320A2	40-1320C2	2
40-1220A3	40-1220C3*	40-1320A3	40-1320C3	3
40-1220A4	40-1220C4*	40-1320A4	40-1320C4	4
40-1220A5	40-1220C5*	40-1320A5	40-1320C5	5
40-1220A6	40-1220C6*	40-1320A6	40-1320C6	6

\*Please add "E" behind catalog reference if desired with EJECTOR for immediate bone removal

\*Please use thin footplate for delicate use only.

**bold** = shown



**K** black ceramic coating

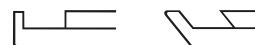


40-1220C1K

## Kerrison

black ceramic

### Regular footplate



### Thin footplate\*



90° up Art.-No.	40° up Art.-No.	90° up Art.-No.	40° up Art.-No.	Width mm
<b>Length 180 mm / 7"</b>				
40-1218A1K	40-1218C1K	40-1318A1K	40-1318C1K	1
40-1218A2K	40-1218C2K*	40-1318A2K	40-1318C2K	2
40-1218A3K	40-1218C3K*	40-1318A3K	40-1318C3K	3
40-1218A4K	40-1218C4K*	40-1318A4K	40-1318C4K	4
40-1218A5K	40-1218C5K*	40-1318A5K	40-1318C5K	5
40-1218A6K	40-1218C6K*	40-1318A6K	40-1318C6K	6
<b>Length 200 mm / 8"</b>				
40-1220A1K	<b>40-1220C1K</b>	40-1320A1K	40-1320C1K	1
40-1220A2K	40-1220C2K*	40-1320A2K	40-1320C2K	2
40-1220A3K	40-1220C3K*	40-1320A3K	40-1320C3K	3
40-1220A4K	40-1220C4K*	40-1320A4K	40-1320C4K	4
40-1220A5K	40-1220C5K*	40-1320A5K	40-1320C5K	5
40-1220A6K	40-1220C6K*	40-1320A6K	40-1320C6K	6

\*Please add "E" behind catalog reference if desired with EJECTOR for immediate bone removal

\*Please use thin footplate for delicate use only.

**bold** = shown



## Geister Rongeurs

**Newly developed Geister Rongeurs designed for easy detaching at the push of the gold button.**

- the gold button indicates the detachability
- jaws are available in 2, 3 and 4 mm widths
- extremely firm construction of jaw
- shafts available in various lengths, straight, bayonet up, left or right designs
- working ends straight, 45° upwards or 45° downwards biting
- easy and safe detaching at the push of the gold button
- efficient cleaning and sterilization of the total instrument
- all parts stay together and thus cannot get lost

40-2626.18Z

Geister Rongeurs



**Disassembly Instructions**

1. Close the handle.
2. Push the gold button and keep it pushed.
3. Open the handle.
4. The upper movable shaft is unlocked and can be slit to the left by a slide move upwards.



**Advice:** By closing the handle again, the shaft remains swiveled out so that the instrument can be cleaned in open position. In that case the golden button must be pressed again to open the handle after cleaning for assembly.



**Assembly Instructions**

1. Put back the upper jaw to an open position.
2. Open the handle and slide back the movable shaft on the instrument.
3. Put the movable shaft in the groove of the jaw and push the shaft downwards.
4. Close the handle and the instrument is locked.



Geister Rongeurs



straight Art.-No.	up Art.-No.	down Art.-No.	Jaw mm
<b>Length of shaft 155 mm/6¼"</b>			
40-2620.16Z	40-2621.16Z	40-2622.16Z	2
40-2625.16Z	40-2626.16Z	40-2627.16Z	3
40-2630.16Z	40-2631.16Z	40-2632.16Z	4
<b>Length of shaft 180 mm/7"</b>			
40-2620.18Z	40-2621.18Z	40-2622.18Z	2
40-2625.18Z	<b>40-2626.18Z</b>	40-2627.18Z	3
40-2630.18Z	40-2631.18Z	40-2632.18Z	4



## Rack for Rongeurs

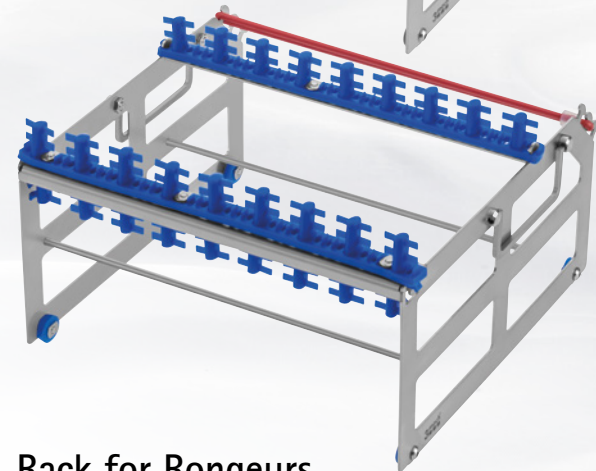
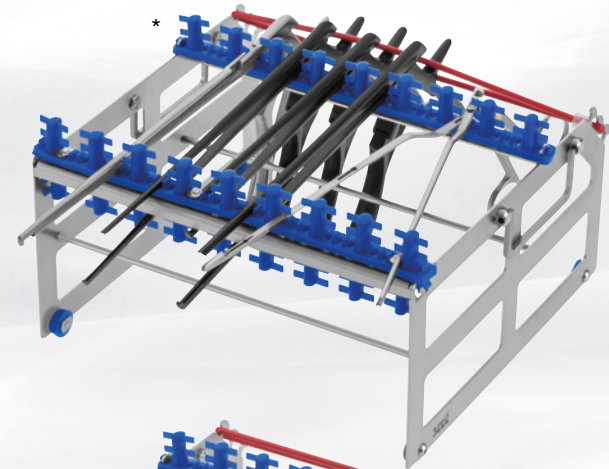


### SurgiBOX™ Micro

duplex with 2 permanent filters

Art.-No.	Measure mm	Description
77-0120.01	495 × 270 × 75	for max. 8 K-Rex™ punches

\*Rongeurs not included



### Rack for Rongeurs

225 × 232 × 130 mm

Art.-No.	Description
77-3656	for max. 8 Kerrison Rongeurs

Rongeur

GEISTER®



## Wagner

Length 200 mm / 8"  
straight



Fig.	Art.-No.	Jaw Width mm
A	40-2380	5

A

**K** Please add "K" behind catalog reference if black ceramic coating is desired.

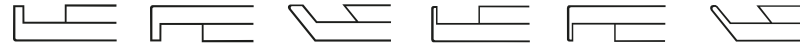




### Kerrison

**Regular footplate**

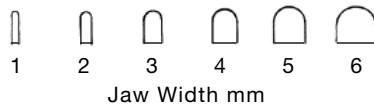
**Thin footplate\***



90° up Art.-No.	90° down Art.-No.	40° up Art.-No.	90° up Art.-No.	90° down Art.-No.	40° up Art.-No.	Width mm
<b>Length 180 mm/7"</b>						
40-1018A1	40-1018B1	40-1018C1	40-1118A1	40-1118B1	40-1118C1	1
40-1018A2	40-1018B2	40-1018C2	40-1118A2	40-1118B2	40-1118C2	2
40-1018A3	40-1018B3	40-1018C3	40-1118A3	40-1118B3	40-1118C3	3
40-1018A4	40-1018B4	40-1018C4	40-1118A4	40-1118B4	40-1118C4	4
40-1018A5	40-1018B5	40-1018C5	40-1118A5	40-1118B5	40-1118C5	5
40-1018A6	40-1018B6	40-1018C6	40-1118A6	40-1118B6	40-1118C6	6

<b>Length 200 mm/8"</b>						
40-1020A1	40-1020B1	40-1020C1	40-1120A1	40-1120B1	40-1120C1	1
40-1020A2	40-1020B2	40-1020C2	40-1120A2	40-1120B2	40-1120C2	2
40-1020A3	40-1020B3	40-1020C3	40-1120A3	40-1120B3	40-1120C3	3
40-1020A4	40-1020B4	40-1020C4	40-1120A4	40-1120B4	40-1120C4	4
40-1020A5	40-1020B5	40-1020C5	40-1120A5	40-1120B5	40-1120C5	5
40-1020A6	40-1020B6	40-1020C6	40-1120A6	40-1120B6	40-1120C6	6

<b>Length 230 mm/9"</b>						
40-1023A1	40-1023B1	40-1023C1	40-1123A1	40-1123B1	40-1123C1	1
40-1023A2	40-1023B2	40-1023C2	40-1123A2	40-1123B2	40-1123C2	2
40-1023A3	40-1023B3	40-1023C3	40-1123A3	40-1123B3	40-1123C3	3
40-1023A4	40-1023B4	40-1023C4	40-1123A4	40-1123B4	40-1123C4	4
40-1023A5	40-1023B5	40-1023C5	40-1123A5	40-1123B5	40-1123C5	5
40-1023A6	40-1023B6	40-1023C6	40-1123A6	40-1123B6	40-1123C6	6



**K** Please add "K" behind catalog reference if black ceramic coating is desired.

\*Please add "E" behind catalog reference if desired with EJECTOR for immediate bone removal

\*Please use thin footplate for delicate use only.

**bold** = shown



### Ferris-Smith

Length 180 mm/7"



2 3 4  
Jaw Width mm

straight Art.-No.	up Art.-No.	down Art.-No.	Jaw Width x Length mm
40-2500	40-2501	40-2502	2 x 10
40-2510	40-2511	40-2512	3 x 10
<b>40-2520</b>	40-2521	40-2522	4 x 10



### Conchotomes

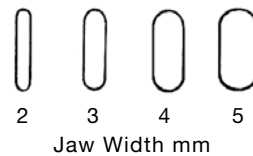


	straight Art.-No.	up Art.-No.	down Art.-No.	Jaw Width x Length mm
	<b>Length 135 mm/5¼"</b>			
Cushing	40-2400	40-2401	40-2402	2 x 10
Love-Gruenwald	40-2440	40-2441	40-2442	3 x 10
Spurling	40-2460	40-2461	40-2462	4 x 10
Gruenwald	40-2480	40-2481	40-2482	5 x 10

	<b>Length 150 mm/6"</b>			
Cushing	40-2410	40-2411	40-2412	2 x 10
Love-Gruenwald	40-2445	40-2446	40-2447	3 x 10
Spurling	40-2465	40-2466	40-2467	4 x 10
Gruenwald	40-2485	40-2486	40-2487	5 x 10

	<b>Length 180 mm/7"</b>			
Cushing	40-2420	40-2421	40-2422	2 x 10
Love-Gruenwald	40-2450	40-2451	40-2452	3 x 10
Spurling	40-2470	40-2471	40-2472	4 x 10
Gruenwald	40-2490	40-2491	40-2492	5 x 10

	<b>Length 250 mm/10"</b>			
Gruenwald	40-2495	40-2496	40-2497	5 x 10





## Caspar-type

fenestrated jaw, serrated



straight Art.-No.	up Art.-No.	down Art.-No.	Jaw mm
----------------------	----------------	------------------	--------

Length 140 mm/5½"

40-2620.14	40-2621.14	40-2622.14	2
40-2625.14	40-2626.14	40-2627.14	3
40-2630.14	40-2631.14	40-2632.14	4
40-2635.14	40-2636.14	40-2637.14	5
40-2640.14	40-2641.14	40-2642.14	6

Length 160 mm/6¼"

40-2620.16	40-2621.16	40-2622.16	2
40-3003.16	40-3004.16	40-3005.16	2.5
<b>40-2625.16</b>	40-2626.16	40-2627.16	3
40-2630.16	40-2631.16	40-2632.16	4
40-2635.16	40-2636.16	40-2637.16	5
40-2640.16	40-2641.16	40-2642.16	6

Length 185 mm/7¼"

40-2620.19	40-2621.19	40-2622.19	2
40-3003.18	40-3004.18	40-3005.18	2.5
40-2625.19	40-2626.19	40-2627.19	3
40-2630.19	40-2631.19	40-2632.19	4
40-2635.19	40-2636.19	40-2637.19	5
40-2640.19	40-2641.19	40-2642.19	6

40-2625.16

**K** black ceramic coating



## Caspar-type

fenestrated jaw, serrated



straight Art.-No.	up Art.-No.	down Art.-No.	Jaw mm
Length 160 mm/6¼"			
40-3000.16K	40-3001.16K	40-3002.16K	2
40-3006.16K	<b>40-3007.16K</b>	40-3008.16K	3
40-3009.16K	40-3010.16K	40-3011.16K	4
40-3012.16K	40-3013.16K	40-3014.16K	5

Length 180 mm/7"			
40-3000.18K	40-3001.18K	40-3002.18K	2
40-3006.18K	40-3007.18K	40-3008.18K	3
40-3009.18K	40-3010.18K	40-3011.18K	4
40-3012.18K	40-3013.18K	40-3014.18K	5

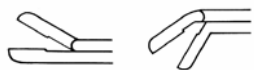
**bold** = shown



41-0252

## Decker

Micro Rongeur



straight	down	
Art.-No.	Art.-No.	Jaw mm
<b>41-0252</b>	41-0262	2 × 6

**bold** = shown





40-2570

## Oldberg

**Art.-No.**      **Jaw Ø mm**

Length 140 mm / 5½"

40-2570.14	2.2
40-2571.14	3.5
40-2572.14	7
40-2573.14	9

Length 190 mm / 7½"

<b>40-2570</b>	2.2
40-2571	3.5
40-2572	7
40-2573	9

**bold** = shown



## Wilde (Weil-Blakesley)

straight	45° angled up	
Art.-No.	Art.-No.	Jaw mm
<b>Length 120 mm/5½"</b>		
40-2550		2.5
40-2551	40-2551.45	3.6
40-2552	40-2552.45	4.2
40-2553	40-2553.45	4.8
40-2554		5.3

<b>Length 140 mm/5½"</b>		
40-2560	40-2560.45	2.5
40-2561	40-2561.45	3.6
40-2562	40-2562.45	4.2
<b>40-2563</b>	40-2563.45	4.8
40-2564	40-2564.45	5.3
40-2565	40-2565.45	6.3



Width  
mm

40-2563



40-0100



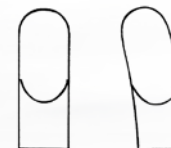
40-0150



A

B

<b>Boehler</b>		
Length 150 mm/6"		
Fig.	Art.-No.	Jaw mm
A	40-0098	2
B	40-0099	2
A	<b>40-0100</b>	3
B	40-0101	3
A	40-0102	4
B	40-0103	4



C

D

<b>Luer-Stillle</b>		
Length 220 mm/8¾"		
Fig.	Art.-No.	Jaw mm
C	<b>40-0150</b>	10
D	40-0151	10



## Bone Biting Rongeurs



Bone Biting Rongeurs

GEISTER®



40-0136



40-0137



A

Beyer

Length 180 mm / 7"

Fig.	Art.-No.	Jaw mm
A	40-0104	3
A	<b>40-0105</b>	4



B

Ruskin

Length 190 mm / 7½"

Fig.	Art.-No.	Jaw mm
B	40-0115	5
B	<b>40-0116</b>	6
B	40-0117	7

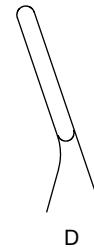


C

Marquardt

Length 200 mm / 8"

Fig.	Art.-No.	Jaw mm
C	<b>40-0190</b>	3



D

Bone Biting Rongeurs

Length 240 mm / 9½", double action

Fig.	Art.-No.	Description	Jaw mm
D	<b>40-0136</b>	S-shaped, curved to left	2
D	<b>40-0137</b>	S-shaped, curved to right	2

bold = shown



40-0195



40-0193



40-0116.24



40-0192

### Hoffmann

Length 300 mm / 11 7/8"

Art.-No.	Jaw mm
40-0191	5

Length 230 mm / 9"

Art.-No.	Jaw mm
<b>40-0192</b>	6

### Mayfield

Length 180 mm / 7"



A

Fig.	Art.-No.	Jaw mm
A	<b>40-0193</b>	3
A	40-0194	4



B

### Zaufal-Jansen

Length 180 mm / 7"

Fig.	Art.-No.	Jaw mm
B	<b>40-0195</b>	2



C

### Roettgen-Ruskin

Length 240 mm / 9 1/2"

Fig.	Art.-No.	Jaw mm
C	<b>40-0116.24</b>	5
C	40-0117.24	6

bold = shown



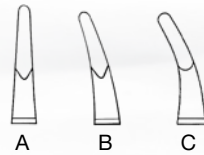
### Smith-Peterson

Length 190 mm / 7½"

Fig.	Art.-No.	Jaw mm
A	40-0180	3
B	40-0181	3
C	40-0182	3

Length 230 mm / 9"

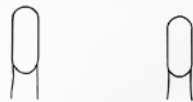
A	<b>40-0185</b>	3
B	40-0186	3
C	40-0187	3
A	40-0185.40	4
B	40-0186.40	4
C	40-0187.40	4



### Leksell

Length 230 mm / 9"

Fig.	Art.-No.	Jaw mm
D	40-0124	3
E	40-0129	3
D	40-0123	4
D	<b>40-0126</b>	5
E	40-0128	5
D	40-0125	8
E	40-0127	8



D, slight bent      E, strong bent



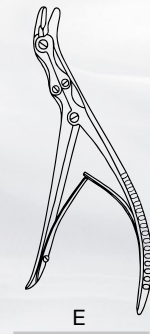
40-0185



40-0126



D



E

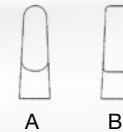




40-0130

40-0120

40-0141



A

B

**Stille**

Length 230 mm/9"

Fig.	Art.-No.	Jaw mm
A	<b>40-0130</b>	6
B	40-0135	6



C

D

**Stille-Ruskin**

Length 240 mm/9½"

Fig.	Art.-No.	Jaw mm
C	40-0119	6
D	<b>40-0120</b>	6
C	40-0121	8
D	40-0122	8



E

**Echlin**

Length 230 mm/9"

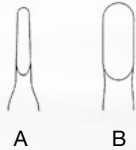
Fig.	Art.-No.	Jaw mm
E	40-0140	2
E	<b>40-0141</b>	3
E	40-0142	4



## Dale

Length 350 mm / 13 $\frac{3}{4}$ "

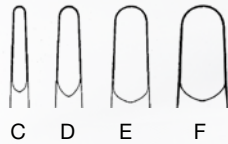
Fig.	Art.-No.	Jaw mm
A	<b>40-0155</b>	3
B	40-0155.08	8



## Sypert (Mega-Luer)

Length 350 mm / 13 $\frac{3}{4}$ "

Fig.	Art.-No.	Jaw mm
C	<b>40-0165</b>	3
D	40-0166	5
E	40-0167	8
F	40-0168	12



40-0155



40-0167



### Luer-Friedmann

Length 145 mm / 5½"

Art.-No.	Jaw mm
40-0020	3

### Stellbrink

Length 170 mm / 6¾"

Art.-No.	Jaw mm
40-0035	2

### Zielke

Length 200 mm / 8"

Art.-No.	Jaw mm	Description
<b>40-0053</b>	3.5	
40-0054	5	
40-0056	3	Handles curved on left
40-0057	3	Handles curved on right

Length 320 mm / 12½"

40-0055	5
---------	---



## Liston

angled

Art.-No.	Length mm/"
40-0207	240/9½
<b>40-0208</b>	<b>270/10¾</b>

## De Vilbiss

Forceps

Art.-No.	Length mm/"
<b>40-0199</b>	<b>205/8</b>

## Spare Blade

Art.-No.
<b>40-0199.EK</b>

bold = shown



40-0208



40-0199

40-0199.EK



40-0200



40-0205



40-0211

## Boehler

Art.-No.	Length mm/"	Description
<b>40-0200</b>	150/6	straight
40-0201	150/6	curved

## Mc Indoe

Art.-No.	Length mm/"
<b>40-0205</b>	180/7

## Ruskin-Liston

Art.-No.	Length mm/"	Description
<b>40-0210</b>	190/7½	straight
<b>40-0211</b>	190/7½	curved





A

## Berry

Fig.	Art.-No.	Length mm/"	Insert / Tip mm
A	24-0119	180 / 7	Ⓝ 5.3



B

## Heavy Berry

Wire Twister with TC-Inserts

Fig.	Art.-No.	Length mm/"	Insert / Tip mm
B	24-0127	200 / 8	ⓕ 6.0

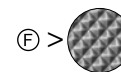


C

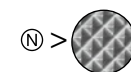
## Rubio

Mini Wire Twister with TC-Inserts

Fig.	Art.-No.	Length mm/"	Insert / Tip mm
C	24-0128	130 / 5	ⓕ 4.8



ⓕ &gt;



Ⓝ &gt;

bold = shown



Wire Twisters, Wire Pliers



24-0125

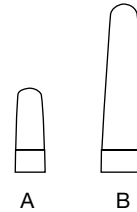


24-0981



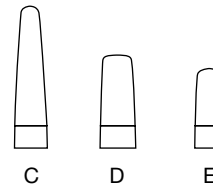
24-0110





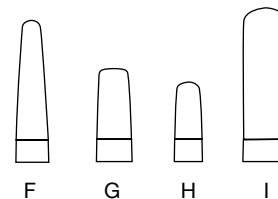
### Mathieu-Style

Fig.	Art.-No.	Length mm/"	Insert / Tip mm
A	24-0980	170 / 6 ¾	Ⓝ 4.0
B	<b>24-0981</b>	200 / 8	Ⓝ 4.0



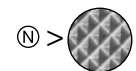
### Wire Twister

Fig.	Art.-No.	Length mm/"	Insert / Tip mm
C	24-0130	160 / 6 ¼	Ⓝ 2.5
D	<b>24-0125</b>	155 / 6	Ⓝ 4.0
D	24-0126	180 / 7	Ⓝ 4.0
E	24-0120	155 / 6	Ⓝ 3.0
E	24-0121	180 / 7	Ⓝ 3.0



### Automatic

Fig.	Art.-No.	Length mm/"	Insert / Tip
F	<b>24-0110</b>	160 / 6 ¼	Ⓝ 2.5
G	24-0105	155 / 6	Ⓝ 4.0
H	24-0100	155 / 6	Ⓝ 3.0
I	24-0115	180 / 7	Ⓝ 5.3



Ⓝ > **bold = shown**





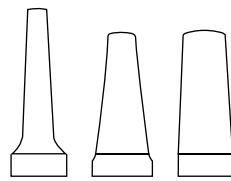
A

## Wire Pliers

Fig.	Art.-No.	Length mm/"
A	<b>14-0670</b>	170/6½

## Wire Holding Forceps

Art.-No.	Length mm/"
<b>14-0700</b>	130/5



B

C

D

## Wire-Twister

Fig.	Art.-No.	Length mm/"	Insert / Tip mm
B	24-0956	180/7	ⓕ 2.0
C	24-0955	180/7	ⓕ 4.0
D	<b>24-0950</b>	180/7	ⓕ 6.0

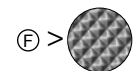
## Wire Cutting Pliers

"removeable handles"

Art.-No.	Length mm/"	Wire max. Ø mm
<b>24-0930</b>	570/22	6.35

## Izzat Wire-Grip

Art.-No.	Wire max. Ø mm
<b>14-0710</b>	1.3



ⓕ &gt;

**bold = shown**



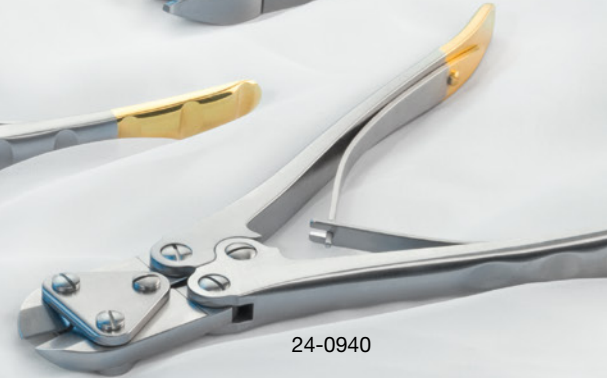
24-0920



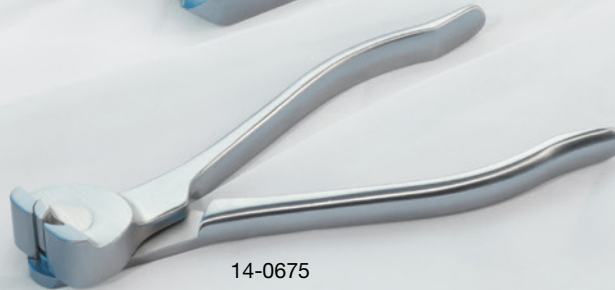
24-0942



24-0905



24-0940



14-0675

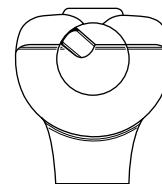


A

## Wire Bull

Plastic inserts hold wire piece after being out

Fig.	Art.-No.	Length mm/"	Wire max. Ø mm
A	<b>24-0942</b>	250/10	3



B

## Wire Pliers

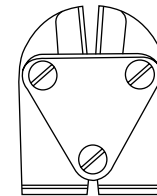
Fig.	Art.-No.	Length mm/"
B	<b>14-0675</b>	160/6¼

## Midi Cutter

Art.-No.	Length mm/"	Wire max. Ø mm
24-0906	180/7	1.5
<b>24-0905</b>	200/8	1.5

## Maxi Cutter

Art.-No.	Length mm/"	Wire max. Ø mm
24-0910	175/7	1.7
<b>24-0920</b>	220/8	2.2

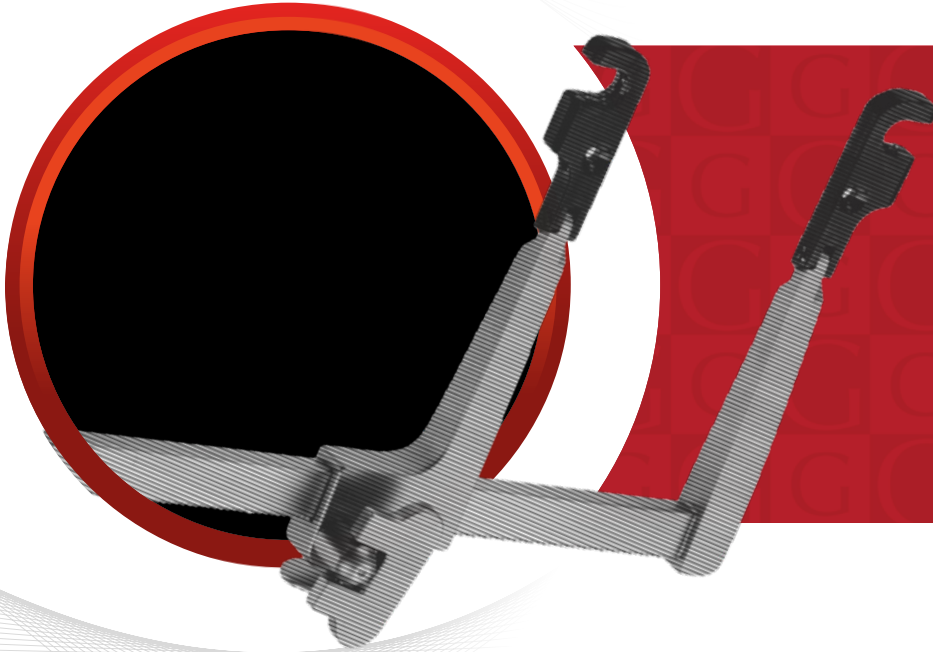


C

## Power Cutter

also recommended for plates

Fig.	Art.-No.	Length mm/"	Wire max. Ø mm
C	<b>24-0940</b>	230/9	3.5





**Retractors**



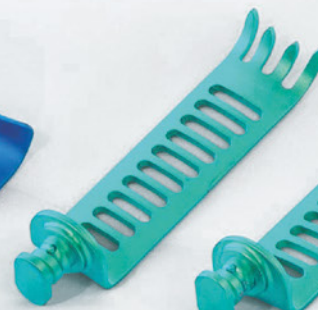
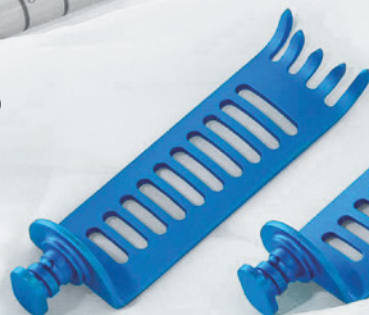
## Cervical Retractor System – SpineControl™ (quick connect)

### Retractor and Blades

- Easy positionable
- Quick-connect side-loading mechanism
- Easy change of blades during operation with a special introducer handle
- Non-slip Caspar-type fenestrated titanium blades
- Color coded by width of blades (micro 19 mm = green, standard 24 mm =blue)
- Semi-transparency to x-ray
- Blade depths from 25 to 75 mm
- Compact and strong retractor body with anterior titanium hinges
- Lightweight



29-3626.75





Cervical Retractor System – SpineControl™ (quick connect)

GEISTER®



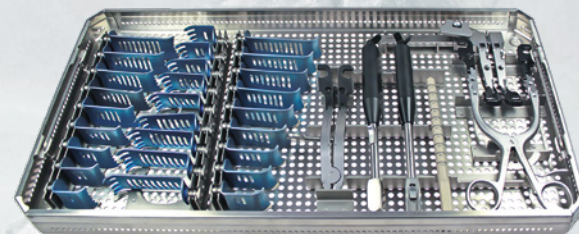
29-3612.01



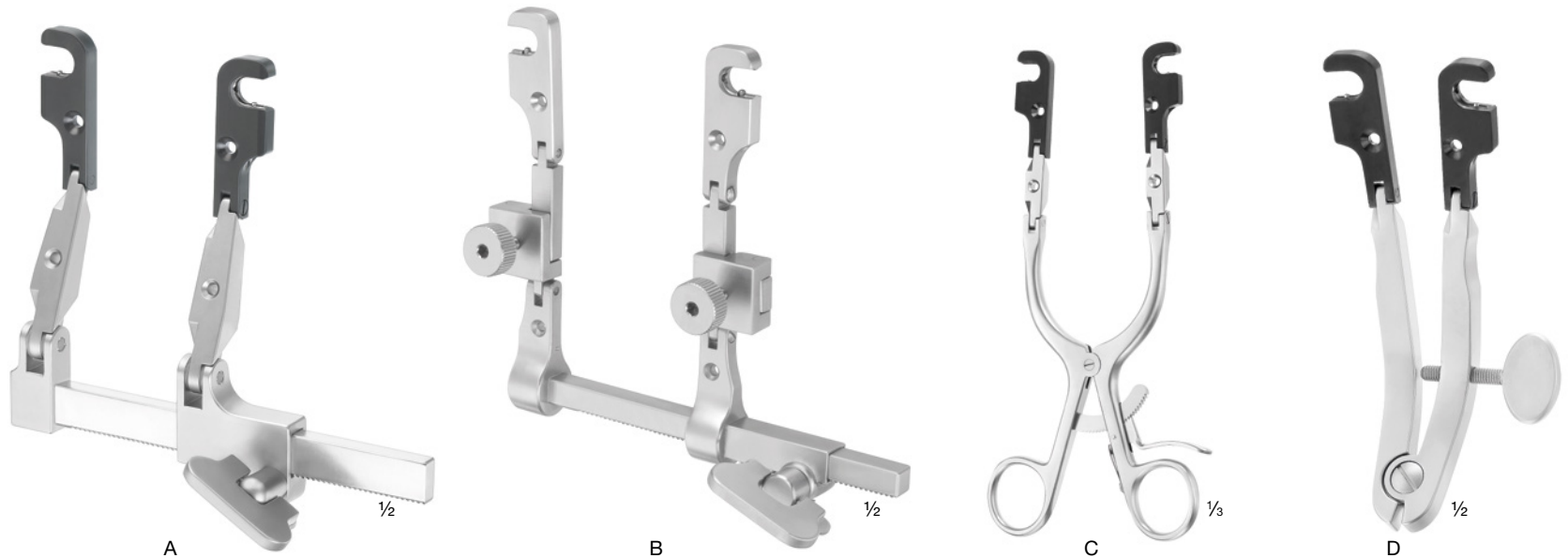
29-3615.FL



29-3614.01



29-3608



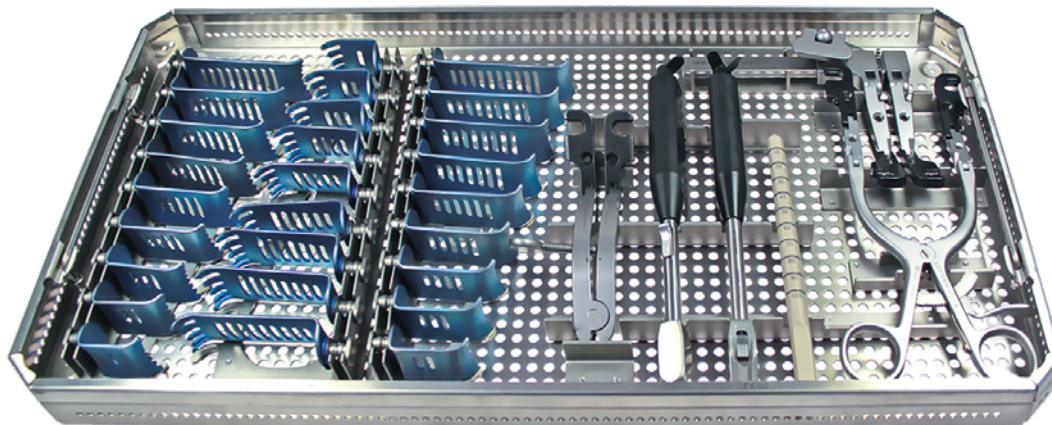
## Cervical Retractor System

quick connect

Fig.	Art.-No.	Description
A	<b>29-3610.01</b>	Transversal Basic Cervical Retractor 2-hinged, anterior titanium hinges
B	29-3610.02	Transversal Retractor 2-hinged, with extended deep spreading*
C	<b>29-3612.01</b>	Longitudinal Basic Counter Retractor 2-hinged, anterior titanium hinges
D	<b>29-3614.01</b>	Longitudinal Counter Retractor, Speculum, anterior titanium hinges



\*further information see [www.geister.com](http://www.geister.com)



## Cervical Retractor Set

complete in tray with lid  
quick connect, titanium

29-3608		Consisting of	
Art.-No.	Qty.	Art.-No.	Qty.
29-3610.01	1	29-3628.45	1
29-3612.01	1	29-3628.50	1
29-3614.01	1	29-3628.55	1
29-3615.FL	2	29-3628.60	1
29-3609	1	29-3628.65	1
29-3627.30	1	29-3628.70	1
29-3627.35	1	29-3629.35	1
29-3627.40	1	29-3629.40	1
29-3627.45	1	29-3629.45	1
29-3627.50	1	29-3629.50	1
29-3627.55	1	29-3629.55	1
29-3627.60	1	29-3629.60	1
29-3627.65	1	29-3629.65	1
29-3627.70	1	29-3629.70	1
29-3628.30	1	29-3629.75	1
29-3628.35	1	77-7284	1
29-3628.40	1		

## Tray

for SpineControl™ Cervical System

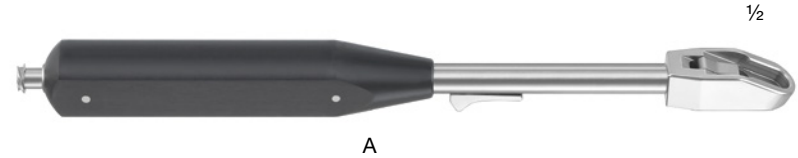
Art.-No.	Description
77-7284	1/1 Type, with lid, 485 × 253 × 30 mm, perforated stainless steel



## Introducer Handle for Blades

Can also be used as a hand-held retractor

Fig.	Art.-No.	Description
A	<b>29-3615.FL</b>	black PPSU handle, 195 mm / 7 ½" Luer-Lock straight-flush irrigation and locking mechanism, with Luer-Lock seal cap, silicone



## Depth Gauge, PEEK nature

to determine the appropriate blade length

Fig.	Art.-No.	Description
B	<b>29-3609</b>	160 mm, measuring range 100 mm



## Instructions for our new introducer handle with cannulation and snap mechanism

1. Introduce and position the blades with the handle into the incision.
2. Catch and snap-in the blade with one anterior hinge of the retractor without removing retractor.
3. Once the blade is properly placed in the retractor the handle can be removed if desired.





## Medial/Lateral Blades

toothed blades, Titanium,  
quick connect, green, 19 mm width

Fig.	Art.-No.	Length mm	Fig.	Art.-No.	Length mm
C	29-3625.25	25	D	29-3626.25	25
C	29-3625.30	30	D	29-3626.30	30
C	29-3625.35	35	D	29-3626.35	35
C	29-3625.40	40	D	29-3626.40	40
C	29-3625.45	45	D	29-3626.45	45
C	29-3625.50	50	D	29-3626.50	50
C	29-3625.55	55	D	29-3626.55	55
C	29-3625.60	60	D	29-3626.60	60
C	29-3625.65	65	D	29-3626.65	65
C	29-3625.70	70	D	29-3626.70	70
C	<b>29-3625.75</b>	75	D	<b>29-3626.75</b>	75

## Blunt Blades

longitudinal, Titanium,  
quick connect, green, 19 mm width

## Lateral Blades

short teeth, Titanium,  
quick connect, blue, 24 mm width

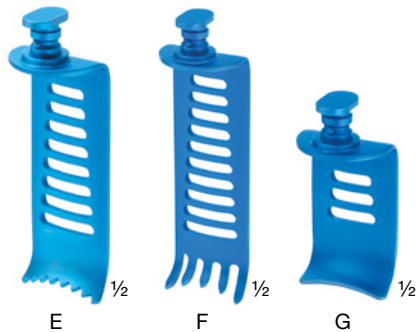


Fig.	Art.-No.	Length mm
E	29-3627.25	25
E	29-3627.30	30
E	29-3627.35	35
E	29-3627.40	40
E	29-3627.45	45
E	29-3627.50	50
E	29-3627.55	55
E	29-3627.60	60
E	<b>29-3627.65</b>	65
E	29-3627.70	70
E	29-3627.75	75

## Medial Blades

long teeth, Titanium,  
quick connect, blue, 24 mm width

Fig.	Art.-No.	Length mm
F	29-3628.25	25
F	29-3628.30	30
F	29-3628.35	35
F	29-3628.40	40
F	29-3628.45	45
F	29-3628.50	50
F	29-3628.55	55
F	29-3628.60	60
F	29-3628.65	65
F	29-3628.70	70
F	<b>29-3628.75</b>	75

## Blunt Blades

longitudinal, Titanium,  
quick connect, blue, 24 mm width

Fig.	Art.-No.	Length mm
G	29-3629.25	25
G	29-3629.30	30
G	29-3629.35	35
G	<b>29-3629.40</b>	40
G	29-3629.45	45
G	29-3629.50	50
G	29-3629.55	55
G	29-3629.60	60
G	29-3629.65	65
G	29-3629.70	70
G	29-3629.75	75



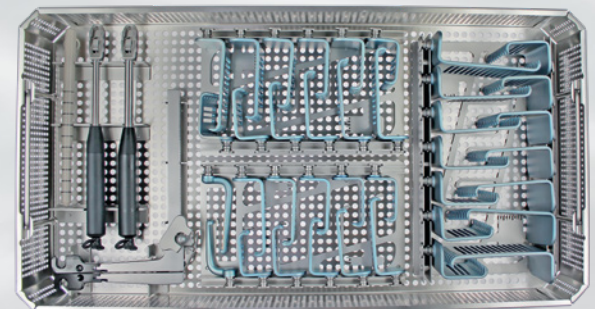
### Retractor and Blades

- Easy positionable
- Quick-connect side-loading mechanism
- Easy change of blades during operation with a special introducer handle
- Non-slip fenestrated titanium blades
- Semi-transparency to x-ray
- Choice of 20 mm blades for monosegmental access, 40 mm for bisegmental access and 60 mm for multisegmental access
- Compact and strong retractor body with anterior titanium hinges
- Lightweight



### Introducer Handle

- simple, quick and safe change of blades
- also usable as hand-held retractor
- snap mechanism with secure grip
- straight-flush irrigation
- compatible with most traditional ball-snap closure systems





## Lumbar Retractor System

quick connect

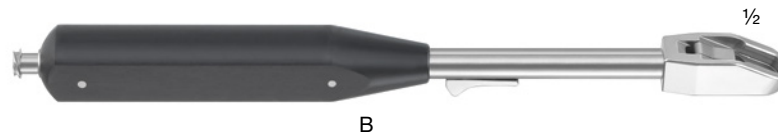
Fig.	Art.-No.	Description
A	<b>29-3605</b>	Transversal Lumbar Retractor, hinged, anterior titanium hinges



## Introducer handle for blades

Can also be used as a hand-held retractor

Fig.	Art.-No.	Description
B	<b>29-3615.FL</b>	black PPSU handle, 195 mm / 7 1/2" Luer-Lock and locking mechanism, with Luer-Lock seal cap, silicone



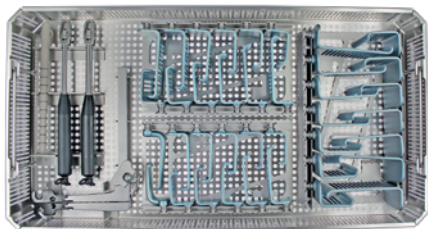
## Depth Gauge, PEEK nature

to determine the appropriate blade length

Fig.	Art.-No.	Description
C	<b>29-3609</b>	160 mm, measuring range 100 mm



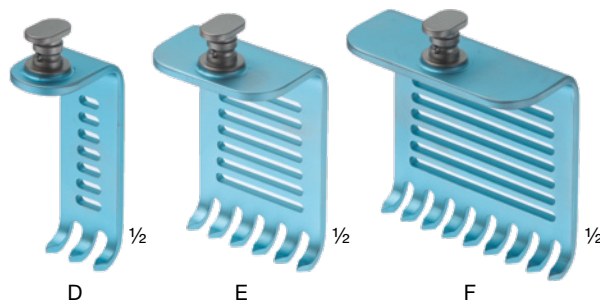




## Lumbar Retractor Set

complete in tray with lid  
quick connect, Titanium

29-3604	Consisting of		
Art.-No.	Qty.	Art.-No.	Qty.
29-3605	1	29-3651.65	2
29-3615.FL	2	29-3651.75	2
29-3609	1	29-3652.35	2
29-3650.35	2	29-3652.40	2
29-3650.40	2	29-3652.45	2
29-3650.45	2	29-3652.55	2
29-3650.55	2	29-3652.65	2
29-3650.65	2	29-3652.75	2
29-3651.35	2	29-3652.85	2
29-3651.40	2	29-3655.01	1
29-3651.45	2	29-3655.02	1
29-3651.55	2	77-7286	1



## Tray

for SpineControl™ Lumbar System

Art.-No.	Description
77-7286	1/1 Type, with lid, 485 × 253 × 70 mm, perforated stainless steel

## Lumbar Blades

20 mm width, Titanium, quick-connect

Fig.	Art.-No.	Length mm
D	29-3650.35	35
D	29-3650.40	40
D	29-3650.45	45
D	29-3650.55	55
D	29-3650.65	65

40 mm width, Titanium, quick-connect

Fig.	Art.-No.	Length mm
E	29-3651.35	35
E	29-3651.40	40
E	29-3651.45	45
E	29-3651.55	55
E	29-3651.65	65
E	29-3651.75	75

60 mm width, Titanium, quick-connect

Fig.	Art.-No.	Length mm
F	29-3652.35	35
F	29-3652.40	40
F	29-3652.45	45
F	29-3652.55	55
F	29-3652.65	65
F	29-3652.75	75
F	29-3652.85	85



## Hemi-Laminectomy Hook

Titanium, quick-connect, blue

Fig.	Art.-No.	Description
G	29-3655.01	small
G	29-3655.02	large



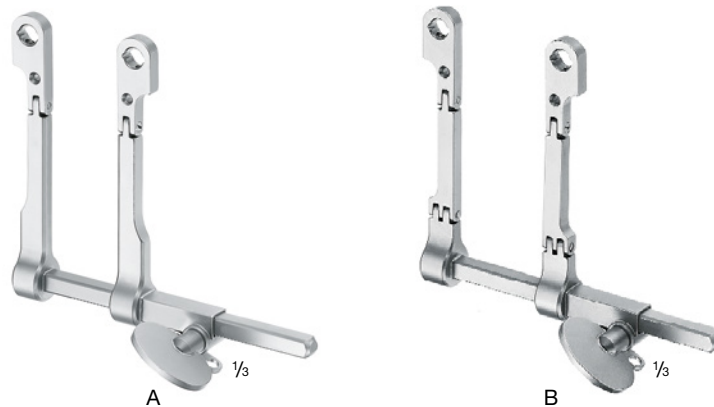
## Transversal Basic Cervical Retractor

hinged

Fig.	Art.-No.	Description	
A	29-3001	Stainless Steel, 65 mm regular spread	●
A	29-3001L	Stainless Steel, 110 mm wide spread	●

double-hinged

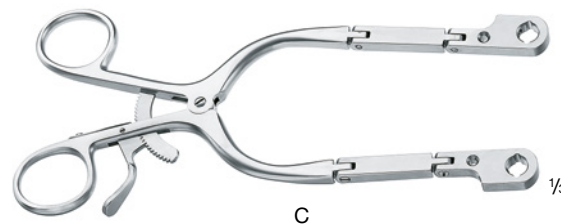
Fig.	Art.-No.	Description	
B	29-3109	Stainless Steel, 65 mm spread	●



## Longitudinal Basic Counter Retractor

double-hinged, ring handle, 205 mm

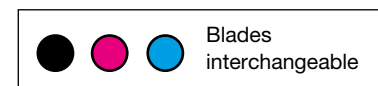
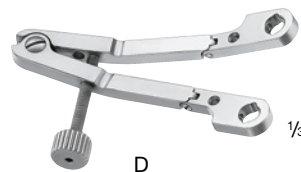
Fig.	Art.-No.	Description	
C	29-3100	Stainless Steel, 85 mm spread	●



## Longitudinal Counter Retractor Speculum

single-hinged, 115 mm

Fig.	Art.-No.	Description	
D	29-3011	Stainless Steel, 70 mm regular spread	●



## Medial Toothed Blades

Stainless Steel, 23 mm width

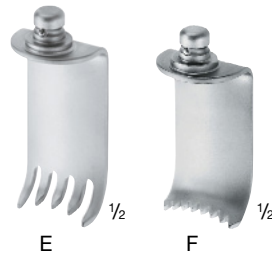
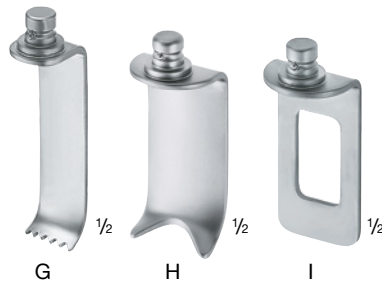


Fig.	Art.-No.	Length mm
E	29-3002.35	35
E	29-3002.40	40
E	29-3002.45	45
E	29-3002.50	50
E	29-3002.55	55
E	29-3002.60	60
E	29-3002.65	65
E	29-3002.70	70

## Lateral Serrated Blades

Stainless Steel, 23 mm width

Fig.	Art.-No.	Length mm
F	29-3003.40	40
F	29-3003.45	45
F	29-3003.50	50
F	29-3003.55	55
F	29-3003.60	60
F	29-3003.65	65
F	29-3003.70	70



## Small Lateral Blades

Stainless Steel, 15 mm width

Fig.	Art.-No.	Length mm
G	29-3004.40	40
G	29-3004.45	45
G	29-3004.50	50
G	29-3004.55	55
G	29-3004.60	60

## Blunt Blades

Stainless Steel, 23 mm width

Fig.	Art.-No.	Length mm
H	29-3012.35	35
H	29-3012.40	40
H	29-3012.45	45
H	29-3012.50	50
H	29-3012.55	55
H	29-3012.60	60
H	29-3012.65	65
H	29-3012.70	70
H	29-3012.75	75

## Cervical Blades

Stainless Steel – fenestrated, 25 mm width

Fig.	Art.-No.	Length mm
I	29-3014.50	50
I	29-3014.60	60

## Caspar-type Set

Stainless Steel, complete set for transverse retraction, 65 mm spread, adjustable with 5 medial and 5 lateral stainless steel blades

### Blade Changing Forceps

Art.-No.	Description
10-8000	see on the next page

29-3000		Consisting of					
Art.-No.	Qty.	Art.-No.	Qty.	Art.-No.	Qty.	Art.-No.	Qty.
29-3001	1	29-3002.50	1	29-3003.40	1	29-3003.55	1
29-3002.40	1	29-3002.55	1	29-3003.45	1	29-3003.60	1
29-3002.45	1	29-3002.60	1	29-3003.50	1		



## Transversal Basic Cervical Retractor

hinged

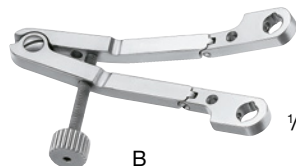
Fig.	Art.-No.	Description
A	<a href="#">29-3001.TI</a>	Titanium, 65 mm spread <span style="color: blue;">●</span>



## Longitudinal Counter Retractor Speculum

single-hinged, 115 mm

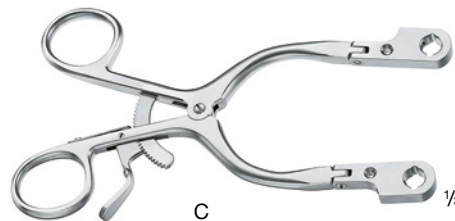
Fig.	Art.-No.	Description
B	<a href="#">29-3011.TI</a>	Titanium, 70 mm spread <span style="color: blue;">●</span>



## Longitudinal Basic Counter Retractor

single-hinged, ring handle, 175 mm

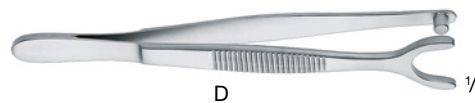
Fig.	Art.-No.	Description
C	<a href="#">29-3013.TI</a>	Titanium, 70 mm spread <span style="color: blue;">●</span>



## Blade Changing Forceps

not suitable for quick connect blades

Fig.	Art.-No.	Description
D	10-8000	115 mm <span style="color: black;">●</span> <span style="color: pink;">●</span> <span style="color: blue;">●</span>





● **Medial Toothed Blades**

Titanium, 24 mm width

Fig.	Art.-No.	Length mm
E	29-3005.40	40
E	29-3005.45	45
E	29-3005.50	50
E	29-3005.55	55
E	29-3005.60	60
E	29-3005.65	65
E	29-3005.70	70



● **Titanium – fenestrated, 24 mm width**

Fig.	Art.-No.	Length mm
H	29-3016.35	35
H	29-3016.40	40
H	29-3016.45	45
H	29-3016.50	50
H	29-3016.55	55
H	29-3016.60	60
H	29-3016.65	65
H	29-3016.70	70



● **Lateral Serrated Blades**

Titanium, 24 mm width

Fig.	Art.-No.	Length mm
F	29-3006.25	25
F	29-3006.30	30
F	29-3006.35	35
F	29-3006.40	40
F	29-3006.45	45
F	29-3006.50	50
F	29-3006.55	55
F	29-3006.60	60
F	29-3006.65	65
F	29-3006.70	70



● **Titanium – fenestrated, 24 mm width**

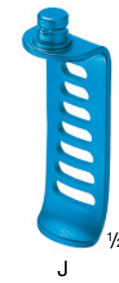
Fig.	Art.-No.	Length mm
I	29-3017.25	25
I	29-3017.30	30
I	29-3017.35	35
I	29-3017.40	40
I	29-3017.45	45
I	29-3017.50	50
I	29-3017.55	55
I	29-3017.60	60
I	29-3017.65	65
I	29-3017.70	70



**Blunt Blades**

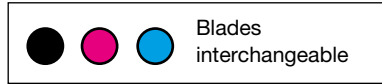
Titanium, 24 mm width

Fig.	Art.-No.	Length mm
G	29-3015.30	30
G	29-3015.35	35
G	29-3015.40	40
G	29-3015.45	45
G	29-3015.50	50
G	29-3015.55	55
G	29-3015.60	60
G	29-3015.65	65
G	29-3015.70	70
G	29-3015.75	75



● **Titanium – fenestrated, 24 mm width**

Fig.	Art.-No.	Length mm
J	29-3018.35	35
J	29-3018.40	40
J	29-3018.45	45
J	29-3018.50	50
J	29-3018.55	55
J	29-3018.60	60
J	29-3018.65	65
J	29-3018.70	70
J	29-3018.75	75



**Caspar-type Set**

Titanium, complete set for transverse retraction, 65 mm spread, adjustable with 5 medial and 5 lateral titanium blades

**29-3000.TI**

Consisting of

Art.-No.	Qty.	Art.-No.	Qty.	Art.-No.	Qty.	Art.-No.	Qty.
29-3001.TI	1	29-3005.50	1	29-3006.40	1	29-3006.55	1
29-3005.40	1	29-3005.55	1	29-3006.45	1	29-3006.60	1
29-3005.45	1	29-3005.60	1	29-3006.50	1		



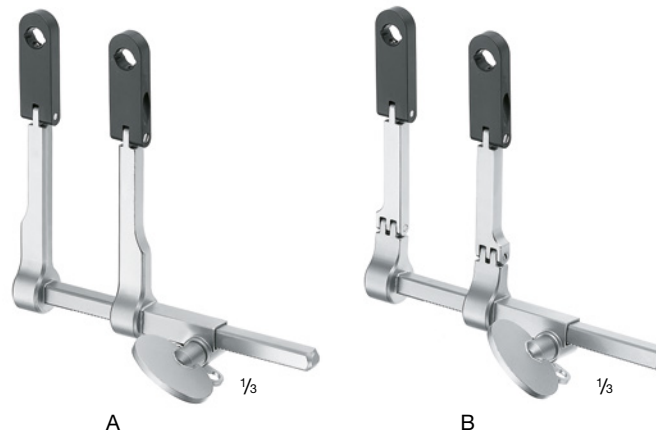
## Transversal Basic Cervical Retractor

hinged

Fig.	Art.-No.	Description	
A	29-3001.PK	PEEK/Stainless Steel, 60 mm spread	●

double-hinged

Fig.	Art.-No.	Description	
B	29-3109.PK	PEEK/Stainless Steel, 65 mm spread	●



## Longitudinal Basic Counter Retractor

single-hinged, ring handle, 175 mm

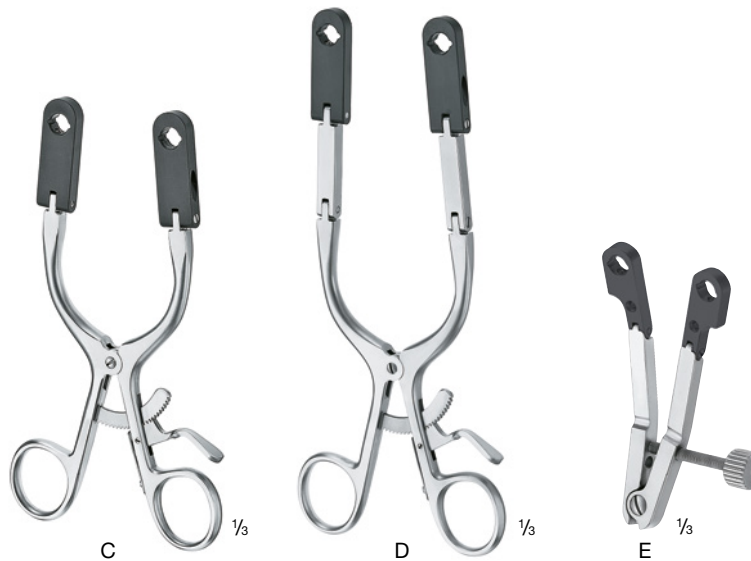
Fig.	Art.-No.	Description	
C	29-3013.PK	PEEK/Stainless Steel, 70 mm spread	●

double-hinged, ring handle, 205 mm

Fig.	Art.-No.	Description	
D	29-3100.PK	PEEK/Stainless Steel, 70 mm spread	●

single-hinged, 115 mm

Fig.	Art.-No.	Description	
E	29-3011.PK	PEEK/Stainless Steel, 70 mm spread	●





●  
Fig.

Art.-No.	Length mm
29-3029.40	40
29-3029.45	45
29-3029.50	50
29-3029.55	55
29-3029.60	60

## Small Lateral Serrated Blades

PEEK, 12 mm width



●  
Fig.

Art.-No.	Length mm
29-3032.40	40
29-3032.45	45
29-3032.50	50
29-3032.55	55
29-3032.60	60
29-3032.65	65
29-3032.75	75

## Medial Toothed Blades

PEEK, 23 mm width



●  
Fig.

Art.-No.	Length mm
29-3030.40	40
29-3030.45	45
29-3030.50	50
29-3030.55	55
29-3030.60	60
29-3030.65	65
29-3030.75	75

## Lateral Serrated Blades

PEEK, 23 mm width

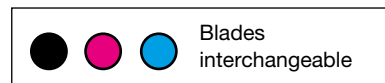


●  
Fig.

Art.-No.	Length mm
29-3033.40	40
29-3033.45	45
29-3033.50	50
29-3033.55	55
29-3033.60	60
29-3033.65	65
29-3033.75	75

## Blunt Blades

PEEK, 23 mm width



## Blade Positioner

PEEK – Handle

Art.-No.	Length mm
29-3615.PK	200



●  
Fig.

Art.-No.	Length mm
29-3031.40	40
29-3031.45	45
29-3031.50	50
29-3031.55	55
29-3031.60	60
29-3031.65	65
29-3031.75	75

PEEK – rotating, 23 mm width



●  
Fig.

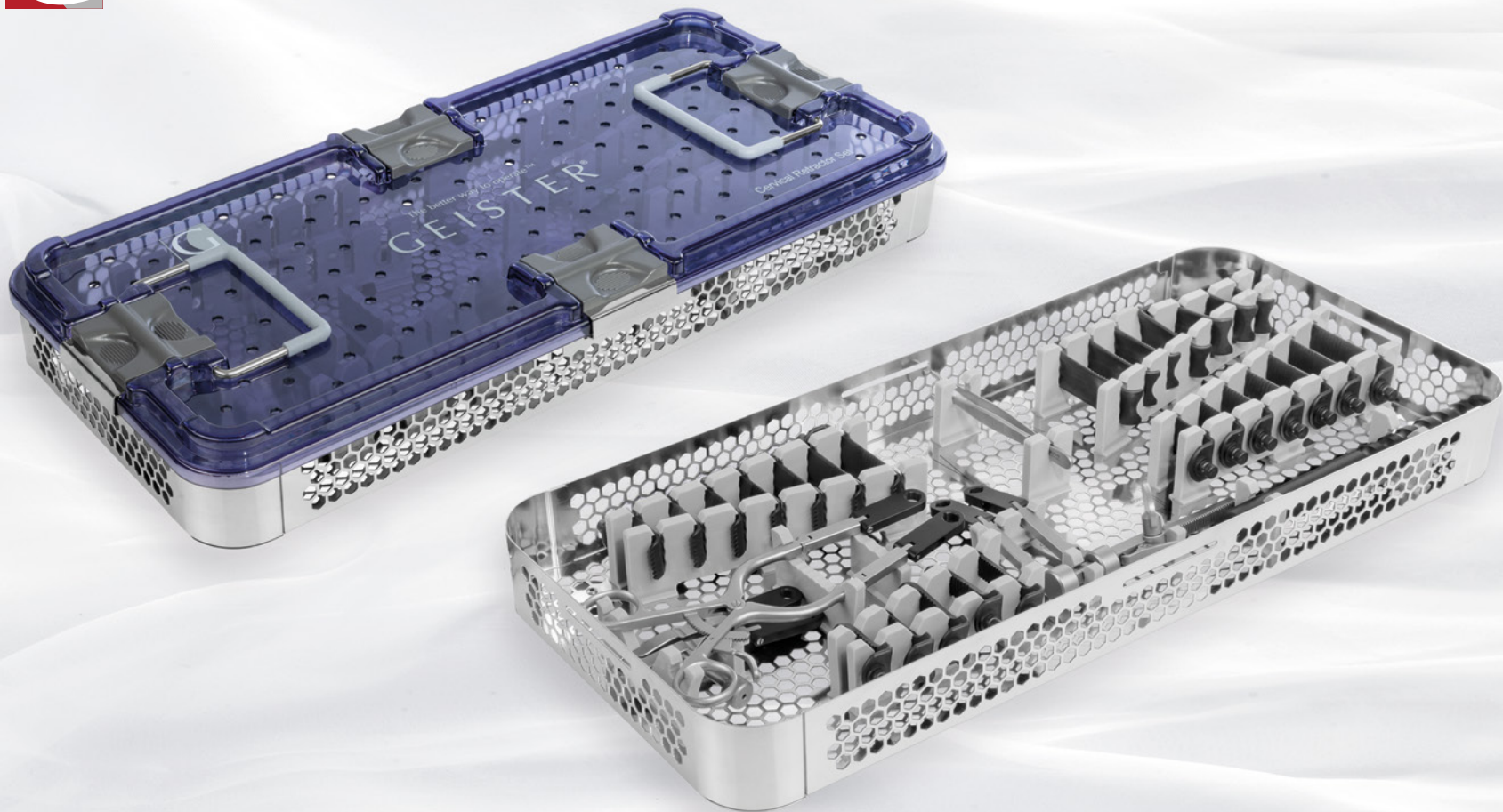
Art.-No.	Length mm
29-3034.40	40
29-3034.45	45
29-3034.50	50
29-3034.55	55
29-3034.60	60
29-3034.65	65
29-3034.75	75

PEEK – rotating, 23 mm width

Blades interchangeable



Cervical Retractor System – SpineControl™ (PEEK)





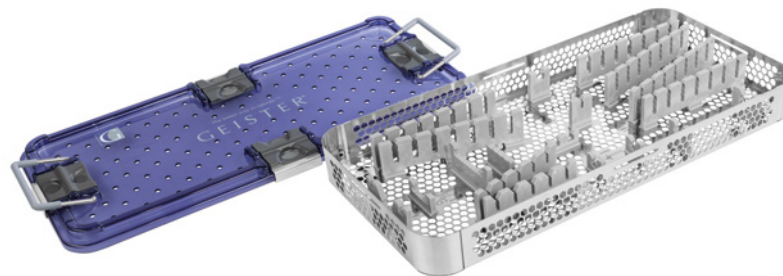
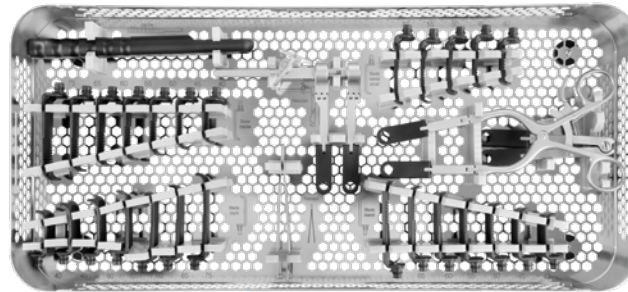
## Cervical Retractor Set

Caspar-type

complete in tray with lid

**29-3007** Consisting of each 1 pieces

Art.-No.	Art.-No.	Art.-No.
29-3109.PK	29-3030.50	29-3033.40
29-3011.PK	29-3030.55	29-3033.45
10-8000	29-3030.60	29-3033.50
29-3615.PK	29-3030.65	29-3033.55
29-3100.PK	29-3030.75	29-3033.60
29-3029.40	29-3032.40	29-3033.65
29-3029.45	29-3032.45	29-3033.75
29-3029.50	29-3032.50	77-7283
29-3029.55	29-3032.55	
29-3029.60	29-3032.60	
29-3030.40	29-3032.65	
29-3030.45	29-3032.75	



## Tray

for SpineControl™ Cervical Retractor Set

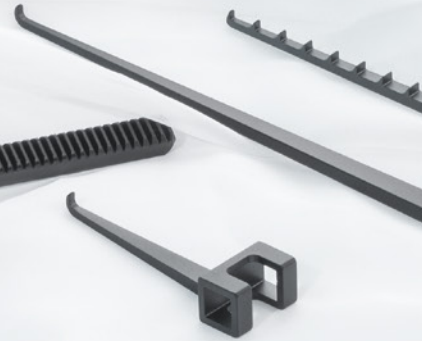
Art.-No.	Description
77-7283	consisting of container and insert



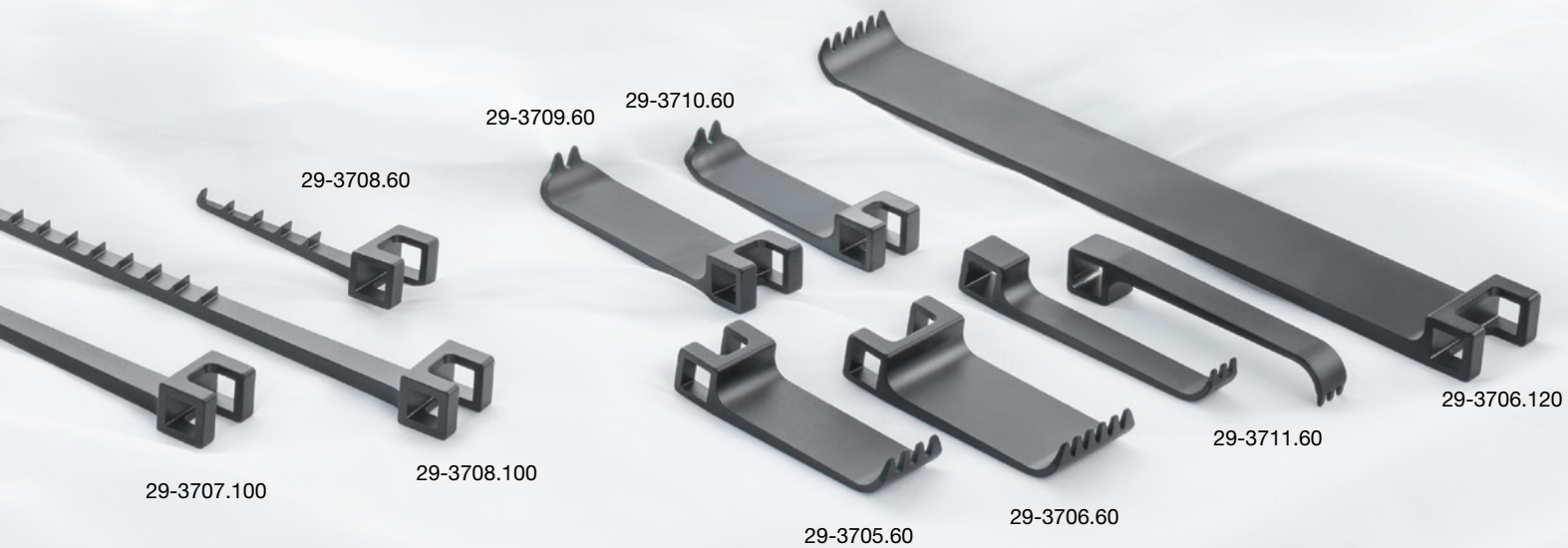
29-3701



29-3702



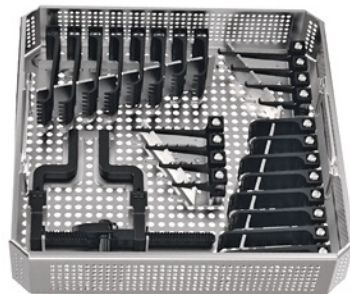
29-3707.60





## McCulloch Set

29-3717 Consisting of			
Art.-No.	Qty.	Art.-No.	Qty.
29-3702	1	29-3707.30	1
29-3705.40	2	29-3707.40	1
29-3705.50	2	29-3707.50	1
29-3705.60	2	29-3707.60	1
29-3705.70	2	29-3708.30	1
29-3706.40	2	29-3708.40	1
29-3706.50	2	29-3708.50	1
29-3706.60	2	29-3708.60	1
29-3706.70	2	29-3723	1



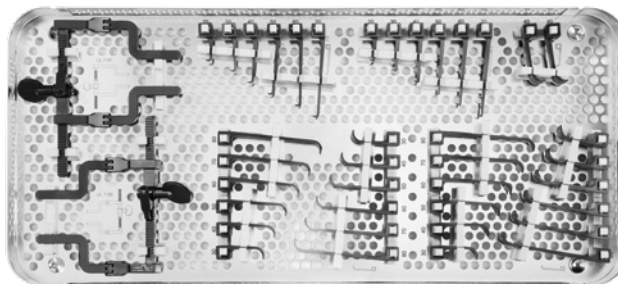
## Tray

for Retractor Set acc. to McCulloch, with lid

Art.-No.	Measure mm
29-3723	243 × 253 × 50

## McCulloch Set large

29-3717.L Consisting of			
Art.-No.	Qty.	Art.-No.	Qty.
29-3702	2	29-3707.20	1
29-3705.30	2	29-3707.30	1
29-3705.40	2	29-3707.40	1
29-3705.50	2	29-3707.50	1
29-3705.60	2	29-3707.60	1
29-3705.70	2	29-3707.70	1
29-3705.80	2	29-3708.20	1
29-3706.30	2	29-3708.30	1
29-3706.40	2	29-3708.40	1
29-3706.50	2	29-3708.50	1
29-3706.60	2	29-3708.60	1
29-3706.70	2	29-3708.70	1
29-3706.80	2	29-3712.40	2
		29-3724	1



## Tray

for Retractor Set acc. to McCulloch, with lid

Art.-No.	Measure mm
29-3724	540 × 250 × 60



## Tray

for Retractor Set acc. to McCulloch, with lid

Art.-No.	Measure mm
29-3722	240 × 250 × 47



## Narrow Muscle Blades

PEEK, black, 4-teeth, 20 mm width

Fig.	Art.-No.	Length mm
A	29-3705.40PK	40
A	29-3705.50PK	50
A	29-3705.60PK	60
A	29-3705.70PK	70



## McCulloch Set

PEEK

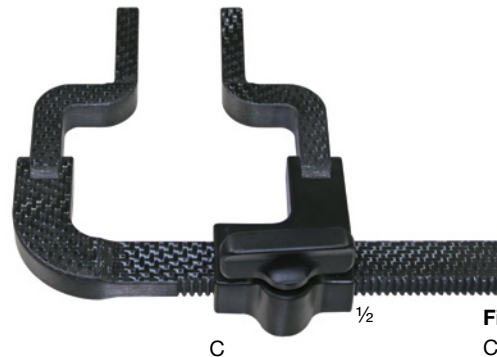
29-3718PK	Consisting of		
Art.-No.	Qty.	Art.-No.	Qty.
29-3702PK	1	29-3706.40PK	2
29-3705.40PK	2	29-3706.50PK	2
29-3705.50PK	2	29-3706.60PK	2
29-3705.60PK	2	29-3706.70PK	2
29-3705.70PK	2	29-3722	1



## Wide Muscle Blades

PEEK, black, 4-teeth, 27 mm width

Fig.	Art.-No.	Length mm
B	29-3706.40PK	40
B	29-3706.50PK	50
B	29-3706.60PK	60
B	29-3706.70PK	70



## McCulloch

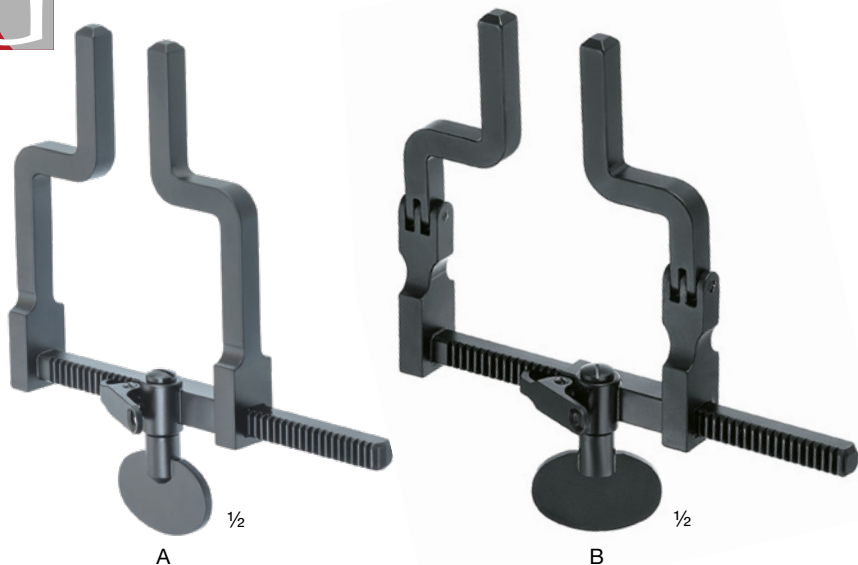
Retractor

Carbon/PEEK, hinged, black

Fig.	Art.-No.	max. spread mm
C	29-3702PK	70



## Retractor System – McCulloch



### McCulloch

#### Retractor

rigid, black coated

Fig.	Art.-No.	max. spread mm
A	<b>29-3701</b>	70
A	29-3700	90

hinged, black coated

Fig.	Art.-No.	max. spread mm
B	<b>29-3702</b>	70
B	29-3702.90	90
B	29-3703	150

**bold** = shown on page 82/83



### Cervical Blades

black coated, 6-teeth,  
27 mm width, slender

Fig.	Art.-No.	Length mm
C	29-3712.40	40



### Cervical Blades

black coated, 2-teeth, 20 mm width

Fig.	Art.-No.	Length mm
D	29-3709.50	50
D	<b>29-3709.60</b>	60
D	29-3709.70	70

## Narrow Muscle Blades

black coated, 4-teeth, 20 mm width

Fig.	Art.-No.	Length mm
E	29-3705.30	30
E	29-3705.40	40
E	29-3705.50	50
E	<b>29-3705.60</b>	60
E	29-3705.70	70
E	29-3705.80	80
E	29-3705.90	90
E	29-3705.100	100
E	29-3705.110	110
E	29-3705.120	120
E	29-3705.180	180



## Thin Muscle Blades

black coated, 2-teeth, 17 mm width

Fig.	Art.-No.	Length mm
F	29-3710.30	30
F	29-3710.40	40
F	29-3710.50	50
F	<b>29-3710.60</b>	60
F	29-3710.70	70
F	29-3710.80	80
F	29-3710.90	90



## Hook Blades

black coated

Fig.	Art.-No.	Length mm
G	29-3707.20	20
G	29-3707.30	30
G	29-3707.40	40
G	29-3707.50	50
G	<b>29-3707.60</b>	60
G	29-3707.70	70
G	29-3707.80	80
G	29-3707.90	90
G	<b>29-3707.100</b>	100
G	29-3707.180	180

## Wide Muscle Blades

black coated, 6-teeth, 27 mm width

Fig.	Art.-No.	Length mm
H	29-3706.30	30
H	29-3706.40	40
H	29-3706.50	50
H	<b>29-3706.60</b>	60
H	29-3706.70	70
H	29-3706.80	80
H	29-3706.90	90
H	29-3706.100	100
H	29-3706.110	110
H	<b>29-3706.120</b>	120
H	29-3706.180	180



## Extra Thin Muscle Blades

black coated, 3-teeth, 10 mm width

Fig.	Art.-No.	Length mm
I	29-3711.30	30
I	29-3711.40	40
I	29-3711.50	50
I	<b>29-3711.60</b>	60
I	29-3711.70	70
I	29-3711.80	80



## Hook Blades

black coated, multiple-toothed

Fig.	Art.-No.	Length mm
J	29-3708.20	20
J	29-3708.30	30
J	29-3708.40	40
J	29-3708.50	50
J	<b>29-3708.60</b>	60
J	29-3708.70	70
J	29-3708.80	80
J	29-3708.90	90
J	<b>29-3708.100</b>	100
J	29-3708.180	180

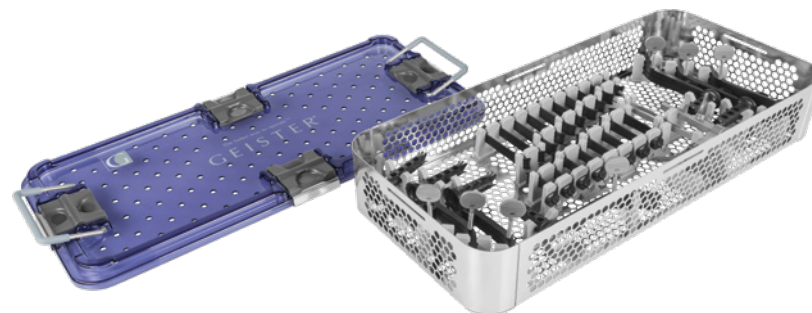
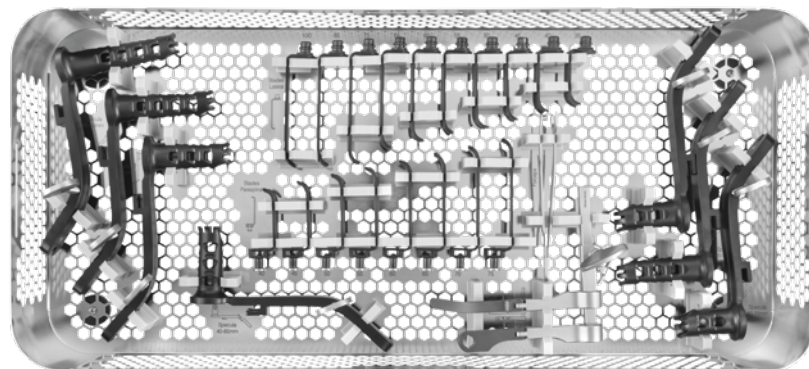


## Caspar-type Set

Lumbar Specula Spreader

**29-3519** Consisting of each 1 pieces

Art.-No.	Qty.	Art.-No.	Qty.	Art.-No.	Qty.	Art.-No.	Qty.
29-3520	1	29-3512	1	29-3532	1	29-3525	1
10-8000	1	29-3514	1	29-3534	1	29-3527	1
29-3502	1	29-3522	1	29-3538	1	29-3529	1
29-3504	1	29-3524	1	29-3542	1	29-3531	1
29-3506	1	29-3526	1	29-3548	1	29-3533	1
29-3508	1	29-3528	1	29-3521	1	29-3535	1
29-3510	1	29-3530	1	29-3523	1	77-7282	1



## Tray

**Art.-No.** 29-3722  
**Measure mm** 540×250×110



## Micro Retractor System – Caspar-type

GEISTER®



A

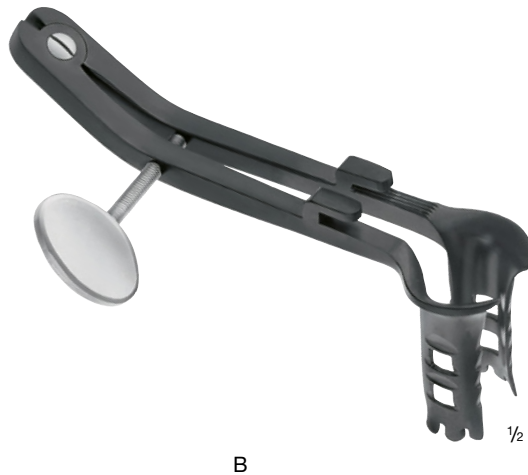
1/2

## Caspar-type Micro Retractor

Counter Retractor, hinged

Fig.	Art.-No.	Description
A	29-3520	Anterior hinges black, titanium-coated
A	29-3520K	Completely black, titanium-coated

Not compatible with System with extended deep Spreading.



B

1/2

## Caspar-type Specula

fenestrated, black titanium-coated

Fig.	Art.-No.	Length mm
B	29-3500	40
B	29-3502	45
B	29-3504	50
B	29-3506	55
B	29-3508	60
B	29-3510	65
B	29-3511	70
B	29-3512	75
B	29-3514	85

## Blades

lateral, black titanium-coated

Fig.	Art.-No.	Length mm
C	29-3522	35
C	29-3524	40
C	29-3526	45
C	29-3528	50
C	29-3530	55
C	29-3532	60
C	29-3534	65
C	29-3538	75
C	29-3542	85
C	29-3548	100

medial, black titanium-coated



C

D

Fig.	Art.-No.	Length mm
D	29-3521	40
D	29-3523	45
D	29-3525	50
D	29-3527	55
D	29-3529	60
D	29-3531	65
D	29-3533	70
D	29-3535	75



## Caspar-type Set

with extended deep spreading

29-3560 Consisting of			
Art.-No.	Qty.	Art.-No.	Qty.
29-3561	1	29-3570.45	1
29-3565.40	1	29-3570.50	1
29-3565.45	1	29-3570.55	1
29-3565.50	1	29-3570.60	1
29-3565.55	1	29-3570.65	1
29-3565.60	1	10-8000	1
29-3565.65	1	77-7216.07	1
29-3570.35	1	77-7312	1
29-3570.40	1		

## Specula

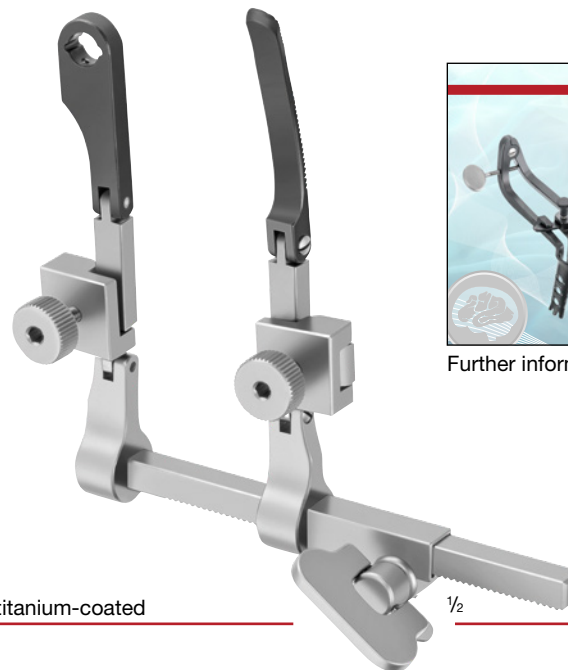
with extended deep spreading,  
black titanium-coated

Art.-No.	Length mm
29-3565.40	40
29-3565.45	45
29-3565.50	50
29-3565.55	55
29-3565.60	60
29-3565.65	65
29-3565.75	75
29-3565.85	85

## Counter Retractor

double hinged

Art.-No.	Description
29-3561	Anterior hinges black, titanium-coated



Further information see [www.geister.com](http://www.geister.com)

## Blades lateral

black titanium-coated

Art.-No.	Length mm
29-3570.35	35
29-3570.40	40
29-3570.45	45
29-3570.50	50
29-3570.55	55
29-3570.60	60
29-3570.65	65
29-3570.75	75
29-3570.85	85

## Blades medial

with locking screw, black titanium-coated

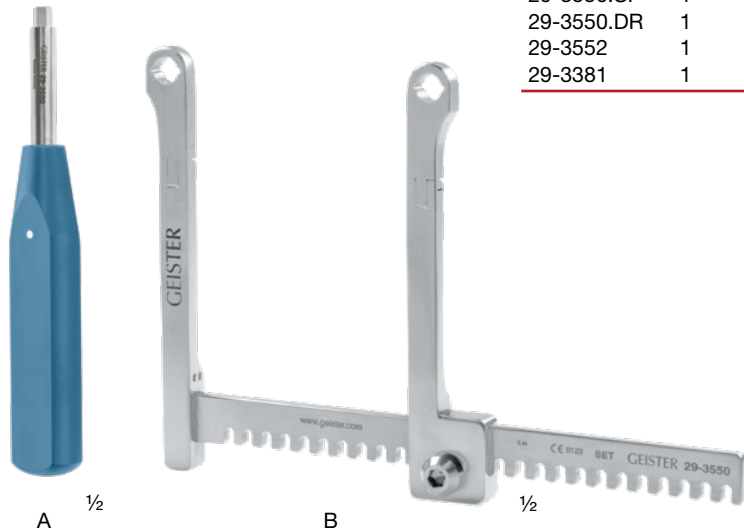
Art.-No.	Length mm
29-3571.40	40
29-3571.45	45
29-3571.50	50
29-3571.55	55
29-3571.60	60
29-3571.65	65
29-3571.70	70

Art.-No.	Description
10-8000	Blade Changing Forceps

## Caspar-type Set

stainless steel, complete set, 145 mm spread, 125 mm arms

29-3550		Consisting of		
Art.-No.	Qty.	Art.-No.	Qty.	Qty.
29-3550.SP	1	29-3382	1	1
29-3550.DR	1	29-3383	1	1
29-3552	1	29-3384	1	1
29-3381	1	29-3385	1	1



### Screw Driver

for spreading bar

Fig.	Art.-No.	Length mm
A	29-3550.DR	150

### Frame only

145 mm spread, hinged,  
including Screw Driver

Fig.	Art.-No.
B	29-3550.SP

### Blades

Width 22 mm

Fig.	Art.-No.	Length mm
D	29-3380	32
D	29-3381	37
D	29-3382	43
D	29-3383	47
D	29-3384	52
D	29-3385	57
D	29-3386	62
D	29-3387	67

Width 37 mm

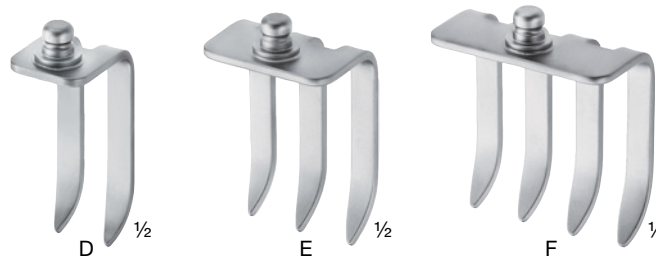
Fig.	Art.-No.	Length mm
E	29-3360	32
E	29-3361	37
E	29-3362	43
E	29-3363	47
E	29-3364	52
E	29-3365	57
E	29-3366	62
E	29-3367	67

Width 52 mm

Fig.	Art.-No.	Length mm
F	29-3370	32
F	29-3371	37
F	29-3372	43
F	29-3373	47
F	29-3374	52
F	29-3375	57
F	29-3376	62
F	29-3377	67

### Blades

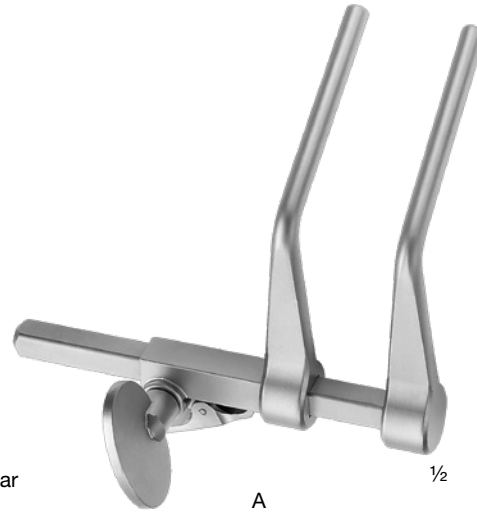
Fig.	Art.-No.	Length mm
C	29-3552	38
C	29-3551	58





## Caspar-type Distraction Retractor

Fig.	Art.-No.	Length mm	Description
A	<b>29-3131</b>	115	Distractor with elongated toothed bar for multilevel
	29-3131L	130	



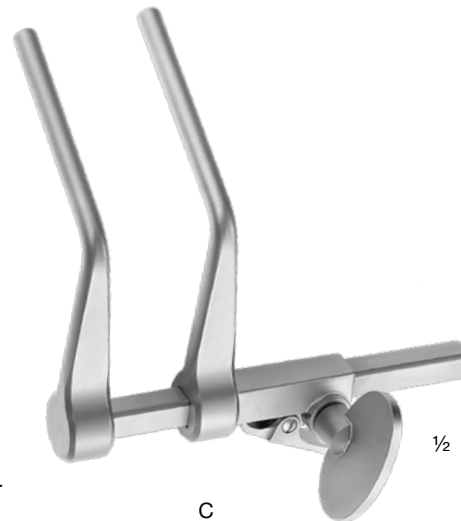
## Drill Guide

Fig.	Art.-No.	Length mm
B	<b>29-3132</b>	200



## Caspar-type Distraction Retractor

Fig.	Art.-No.	Length mm	Description
C	<b>29-3141</b>	115	Distractor with elongated toothed bar for multilevel
	29-3141L	130	



## Drill Guide

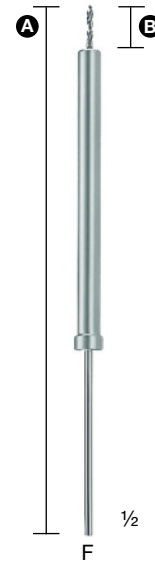
Fig.	Art.-No.	Length mm
D	<b>29-3142</b>	200





**Screw Driver**

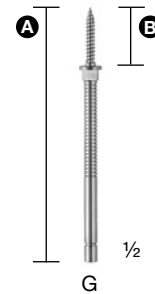
Fig.	Art.-No.	Length mm
E	29-3135	200



### Twist Drill

Ø 1.7 mm

Fig.	Art.-No.	Length mm	Length mm
F	29-3133	140	8



### Distraction Pin

Fig.	Art.-No.	Length mm	Length of tip mm
G	29-3134.12	66	12
	29-3134.14	68	14
	29-3134.16	70	16
	29-3134.18	72	18



## Cloward-type

Fig.	Art.-No.	Length mm arm	Width mm spread
A	29-3200	130	18

one pointed tip

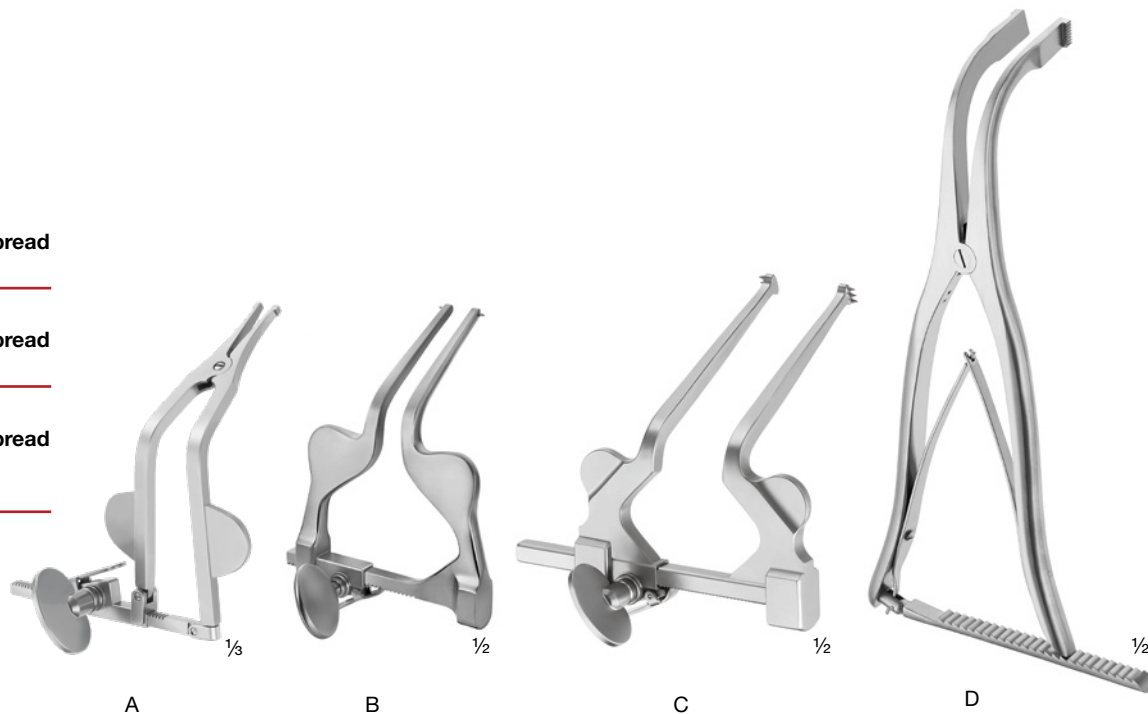
Fig.	Art.-No.	Length mm arm	Width mm spread
B	29-3201	70	80

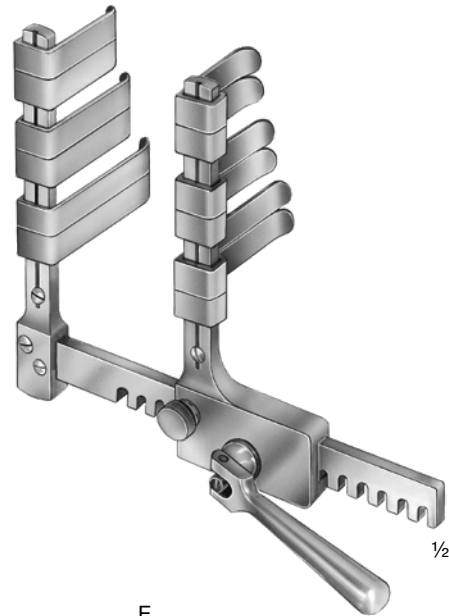
three pointed tips

Fig.	Art.-No.	Length mm arm	Width mm spread
C	29-3202	85	70
C	29-3203	100	70

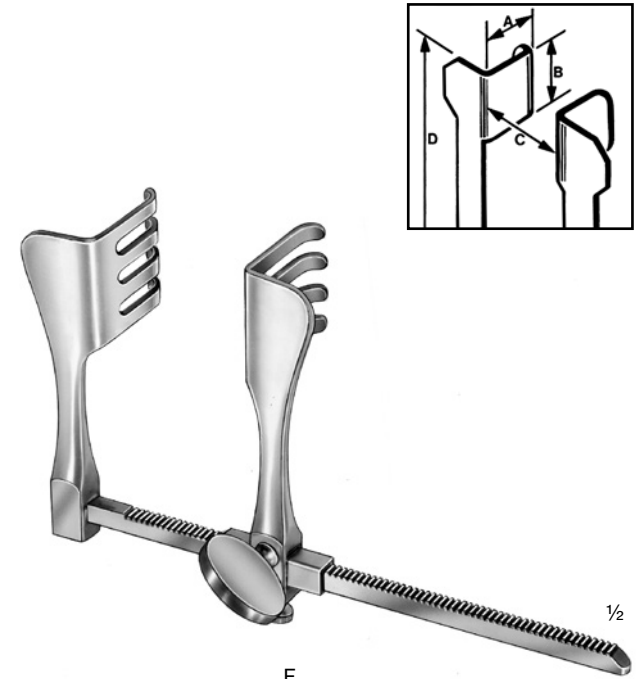
## Inge

Fig.	Art.-No.	Length mm
D	29-3210	165
D	29-3212	280





E



F

## Retractors

Fig.	Art.-No.	A mm	B mm	C mm	D mm
E	29-3400	-	-	110	132

with 3 × 2 pairs of movable blunt blades

Art.-No.	A mm	B mm	C mm	D mm
29-3400.40V	40	40	-	-
29-3400.50V	50	50	-	-
29-3400.65V	65	65	-	-

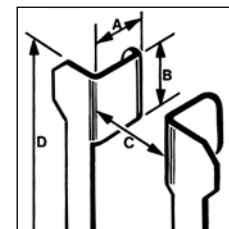
## Badgley

Fig.	Art.-No.	A mm	B mm	C mm	D mm
F	29-3410	48	45	170	110



## Scoville-Haverfield Set

29-3160		Consisting of			
Art.-No.	Qty.	A mm	B mm	C mm	D mm
29-3161	1	-	-	140	140
29-3165.50	1	63	26	140	140
29-3162.51	1	50	5	140	140



## Frame only

hinged

Art.-No.	C mm	D mm
29-3161	140	140

## Blades

3-prongs

Art.-No.	Width × Length mm
29-3163.50	44 × 38

4-prongs

Art.-No.	Width × Length mm
29-3163.60	41 × 38
29-3163.75	66 × 48
29-3164.50	48 × 51
29-3164.60	63 × 63
29-3164.75	82 × 58



## Toothed Blades

Art.-No.	Width × Length mm
29-3165.50	63 × 26
29-3165.75	89 × 26
29-3166.50	51 × 51
29-3166.60	63 × 51
29-3166.75	76 × 51



## Blunt Blades

Hook-shaped, Width 5 mm

Art.-No.	Length mm
29-3162.51	50
29-3162.76	75







## Honolulu Set

Retractor complete  
with ball snap closure, Length 255 mm

**29-3120** Consisting of:

Art.-No.	Qty.
29-3121	1
29-3121.40	1
29-3121.45	1
29-3121.50	1
29-3121.55	1
29-3121.60	1

## Retractor Body

Art.-No.	Description
29-3121	110 mm spread (without blades)



## Serrated Blades

Width 15 mm

Art.-No.	Length mm
29-3121.40	40
29-3121.45	45
29-3121.50	50
29-3121.55	55
29-3121.60	60



## Blunt Blades

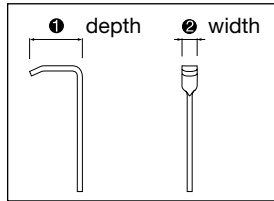
Width 15 mm

Art.-No.	Length mm
29-3122.40	40
29-3122.45	45
29-3122.50	50
29-3122.55	55
29-3122.60	60



Left blade

Right blade



- ❶ first number = depth
- ❷ second number = width

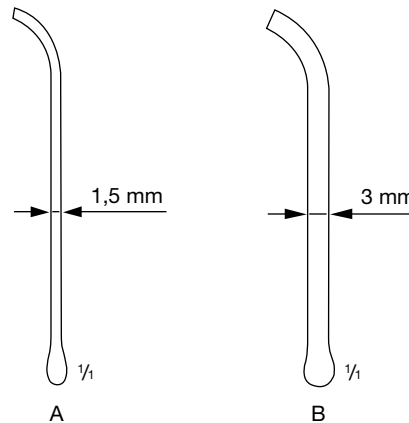
## Williams

Length 170 mm

Fig.	Art.-No.	Right blade Depth x Width mm
A	29-3250R.15	50 x 10
A	29-3252R.15	60 x 10
A	29-3254R.15	70 x 10
A	29-3251R.15	50 x 20
A	29-3253R.15	60 x 20
A	29-3255R.15	70 x 20
B	29-3250R	50 x 10
B	29-3252R	60 x 10
B	29-3254R	70 x 10
B	29-3251R	50 x 20
B	29-3253R	60 x 20
B	29-3255R	70 x 20

Length 170 mm

Fig.	Art.-No.	Left blade Depth x Width mm
A	29-3250L.15	50 x 10
A	29-3252L.15	60 x 10
A	29-3254L.15	70 x 10
A	29-3251L.15	50 x 20
A	29-3253L.15	60 x 20
A	29-3255L.15	70 x 20
B	29-3250L	50 x 10
B	29-3252L	60 x 10
B	29-3254L	70 x 10
B	29-3251L	50 x 20
B	29-3253L	60 x 20
B	29-3255L	70 x 20





## Cone

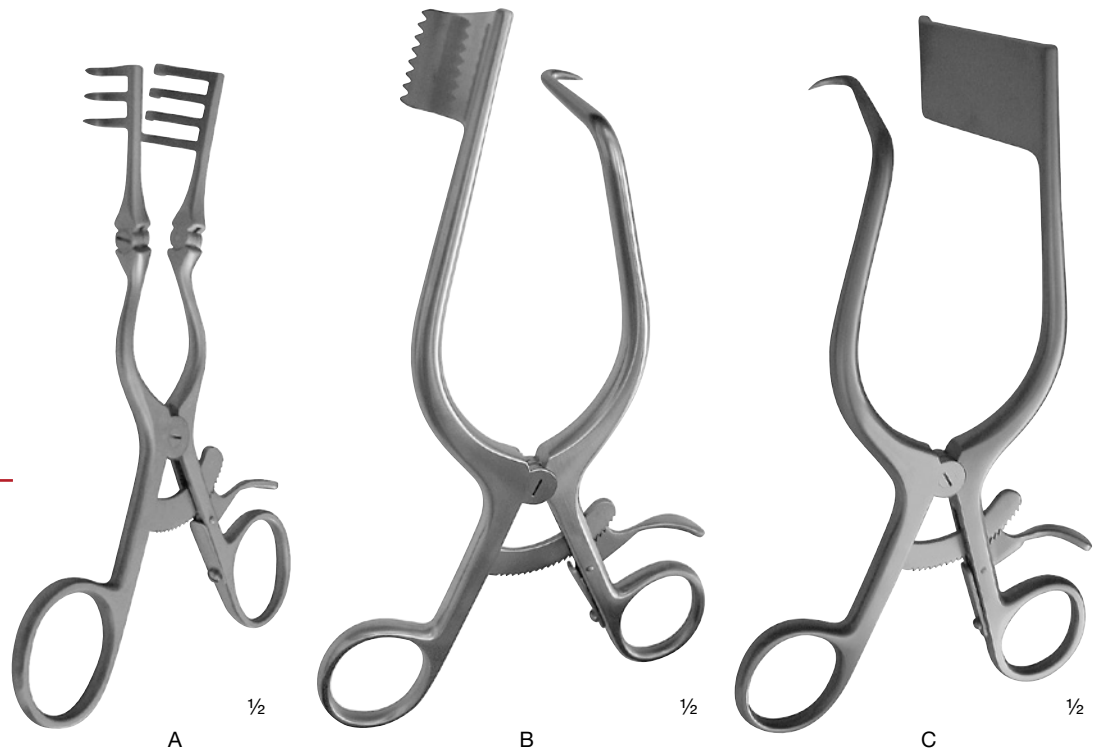
3 × 4 prongs

Fig.	Art.-No.	Length mm	Description
A	30-0640	140	18 mm, sharp
A	30-0642	160	18 mm, sharp
A	30-0644	200	20 mm, sharp
A	30-0648	240	27 mm, sharp
A	30-0641	140	18 mm, blunt
A	30-0643	160	18 mm, blunt
A	30-0645	200	20 mm, blunt
A	30-0649	240	27 mm, blunt

## Markham–Meyerding

Retractor

Fig.	Art.-No.	Length mm	Description
B	30-0631	180	50 × 25 mm left
C	30-0630	180	50 × 25 mm right





## Mini-Weitlaner

2 × 3 prongs

Fig.	Art.-No.	Length mm	Description
D	30-0590	110	16 mm ,sharp
D	30-0592	110	16 mm, blunt

## Weitlaner

3 × 4 prongs

Fig.	Art.-No.	Length mm	Description
E	30-0600	130	18 mm, sharp
E	30-0605	160	18 mm, sharp
E	30-0610	200	21 mm, sharp
E	30-0615	250	27 mm, sharp
E	30-0602	130	18 mm, blunt
E	30-0607	160	18 mm, blunt
E	30-0612	200	21 mm, blunt
E	30-0617	250	27 mm, blunt

## Anderson-Adson Retractor

4 × 4 prongs

Fig.	Art.-No.	Length mm	Description
F	30-0635	200	sharp



## Weitlaner

Length 260 mm

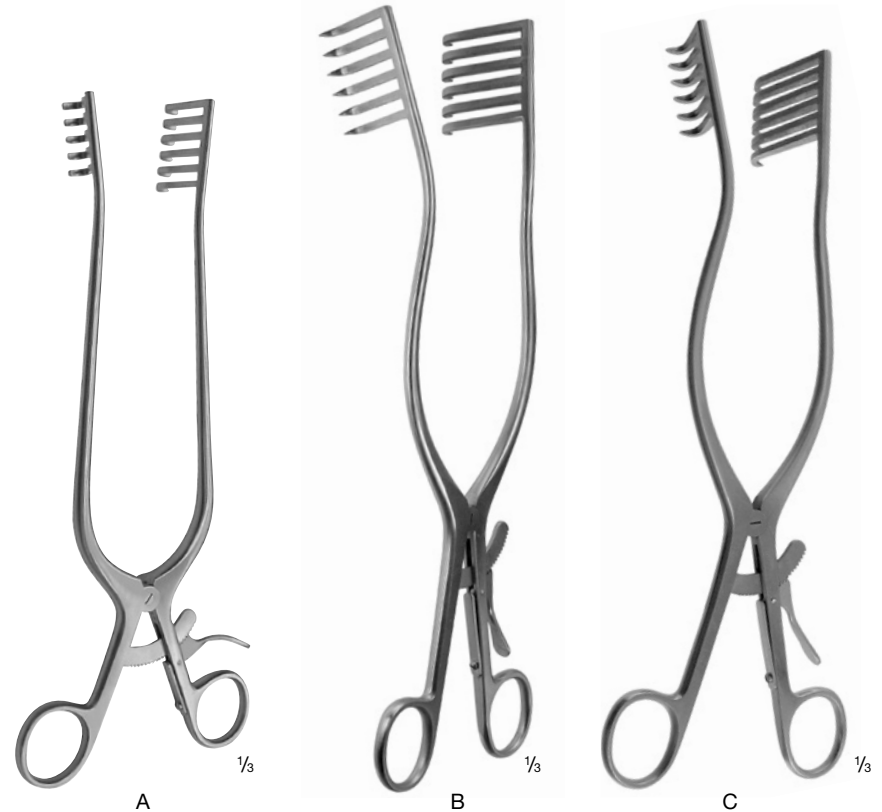
Fig.	Art.-No.	Left blade mm	Right blade mm	Description
A	30-0620	27	27	5 × 6 prongs sharp
A	30-0622	27	27	5 × 6 prongs blunt

Length 290 mm

Fig.	Art.-No.	Left blade mm	Right blade blade mm	Description
B	30-0760	42	42	6 × 6 prongs sharp
B	30-0761	42	42	6 × 6 prongs blunt

Fig.	Art.-No.	Left blade mm	Right blade mm	Description
C	30-0762	22	42	6 × 6 prongs sharp
C	30-0763	22	42	6 × 6 prongs blunt

Art.-No.	Left blade mm	Right blade mm	Description
30-0764	42	22	6 × 6 prongs sharp
30-0765	42	22	6 × 6 prongs blunt





## Beckmann-Eaton

Length 320 mm

Fig.	Art.-No.	Description
D	30-0662	50 mm, 7 × 7 prongs sharp

## Beckmann-Adson

Length 310 mm

Fig.	Art.-No.	Description
E	30-0665	25 mm, 4 × 4 prongs sharp
E	30-0667	37 mm, 4 × 4 prongs sharp
E	30-0670	48 mm, 4 × 4 prongs sharp
E	30-0666	25 mm, 4 × 4 prongs blunt
E	30-0668	37 mm, 4 × 4 prongs blunt
E	30-0671	48 mm, 4 × 4 prongs blunt

## Contour

Length 140 mm

Fig.	Art.-No.	Description
F	30-0770	18 mm, 1 × 1 prongs blunt
F	30-0772	18 mm, 3 × 3 prongs blunt
F	30-0774	18 mm, 3 × 4 prongs sharp
F	30-0775	18 mm, 3 × 4 prongs blunt



## Miskimon

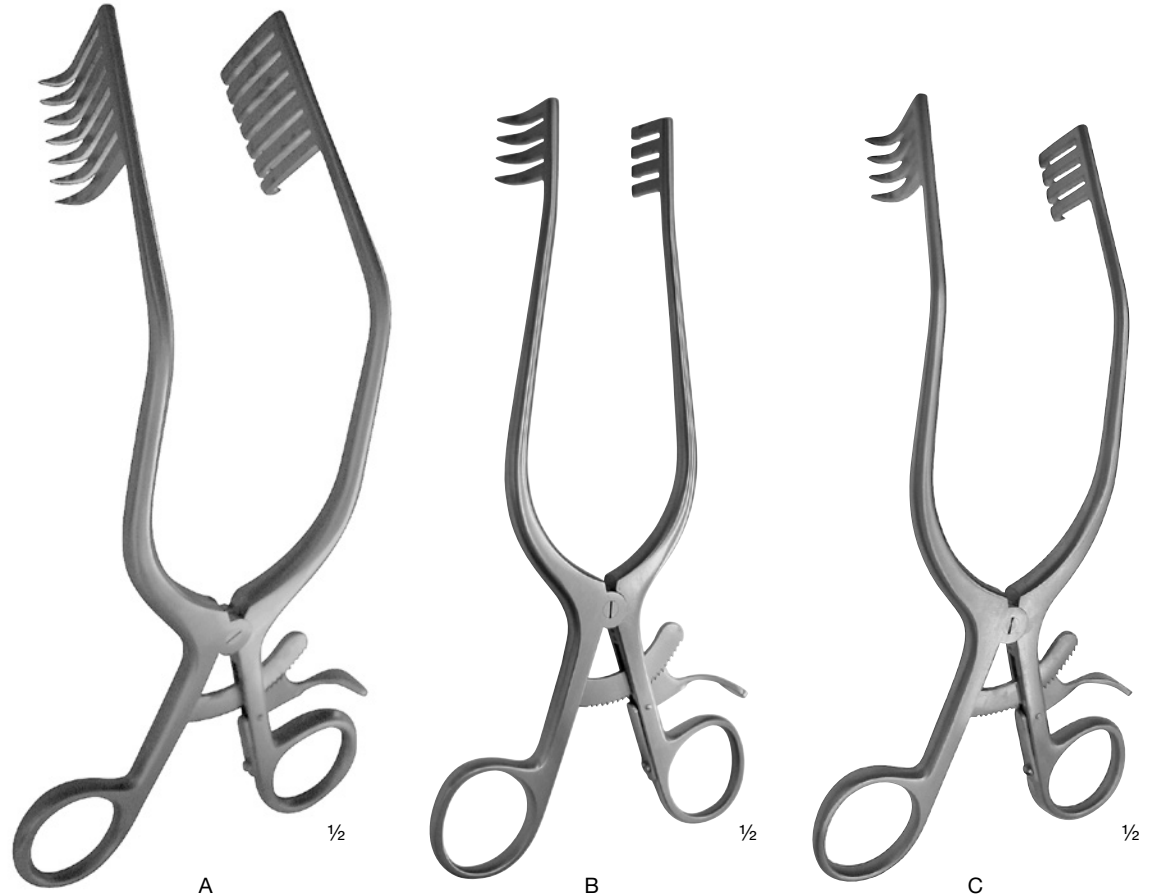
Length 220 mm

Fig.	Art.-No.	Description
A	30-0820	35 mm, 7 × 7 prongs sharp
	30-0822	35 mm, 7 × 7 prongs blunt

## Adson

Length 190 mm

Fig.	Art.-No.	Description
B	30-0651	23 mm, 4 × 4 prongs sharp
B	30-0652	23 mm, 4 × 4 prongs blunt
C	30-0653	23 mm, 4 × 4 prongs sharp







**Norfolk & Norwich  
Retractor**

Length 220 mm

Fig.	Art.-No.	Description
D	30-0636	50 mm, 4 × 5 prongs blunt



**Gelpi  
Skin Retractor**

Length 175 mm

Fig.	Art.-No.
E	30-0791



## Yasargil-type Set

### Retractor Arm

single

A	<b>41-7077</b>	<b>Consisting of</b>
	<b>Art.-No.</b>	<b>Qty.</b>
	41-7105	1
	41-7090	1
	41-7095	1

double

B	<b>41-7076</b>	<b>Consisting of</b>
	<b>Art.-No.</b>	<b>Qty.</b>
	41-7105	2
	41-7091	1
	41-7095	2

## Yasargil-type Set

### Holding Rod

C	<b>41-7075</b>	<b>Consisting of</b>
	<b>Art.-No.</b>	<b>Qty.</b>
	41-7083	1
	41-7084	1
	41-7080	1



A



B



C



D

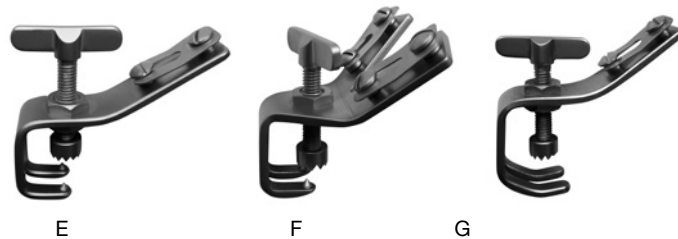
## Yasargil-type

Retractor Arm only

Art.-No.	Length mm
41-7105	400

Titanium

Fig.	Art.-No.	Length mm
D	41-7105.TI	400



E

F

G

## Fixation Base

Fig.	Art.-No.	Description
E	41-7090	holding 1 flexible arm
F	41-7091	holding 2 flexible arms
G	41-7092	for mounting on bars up to Ø 16 mm, holding 1 flexible arm



H

I

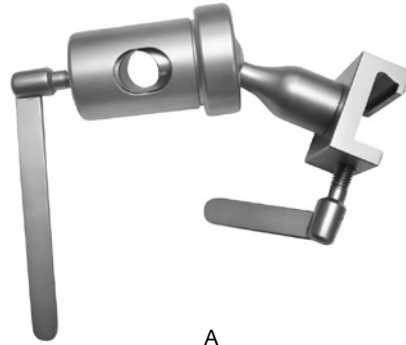
## Support only

Fig.	Art.-No.	Description
H	41-7095	for flat spatulas, fixing to flexible arm
I	41-7096	for spatulas with round shaft, fixing to flexible arm



## Ball- and Socket Joint

Fig.	Art.-No.	Description
A	41-7080	for the holding rod for the fixation on the bar of the OR table



A

## Coupling Head

Fig.	Art.-No.	Description
B	41-7084	for max. 1-5 arms
C	41-7086	turnable for 1 flexible arm, lateral open



B



C

## Holding Rod

Fig.	Art.-No.	Description
D	41-7083	for fixation in ball- and socket joint



D



## Heifetz

round shaft, flexible, Length 155 mm

Fig.	Art.-No.	Width mm
E	41-7120	8
E	41-7122	11
E	41-7124	14
E	41-7126	17



## Mod. Aachen

double-ended, flexible, Length 200 mm

Fig.	Art.-No.	Width mm
F	41-7130	7 + 8
F	41-7131	10 + 11
F	41-7132	13 + 14
F	41-7133	16 + 17
F	41-7134	19 + 20
F	41-7135	22 + 25

At normal OR temperatures the tips of our nitinol spatulas can be deformed with soft pressure according to the surgeon's needs. Due to the special characteristics of the memory-shaped metal the 20cm long spatulas with two conical ends will regain their initial straight shape with each auto-claving cycle.



## Spatulas with Memory

conic-shape, Length 200 mm

Fig.	Art.-No.	Width mm	Tips
G	41-7310	10	2 + 6
G	41-7311	15	2 + 8
G	41-7312	15	5 + 10
G	41-7313	20	5 + 10



Retractor



41-7199



41-7202



41-7220



41-7204



41-7211



41-7205



41-7218



41-7219



41-7216



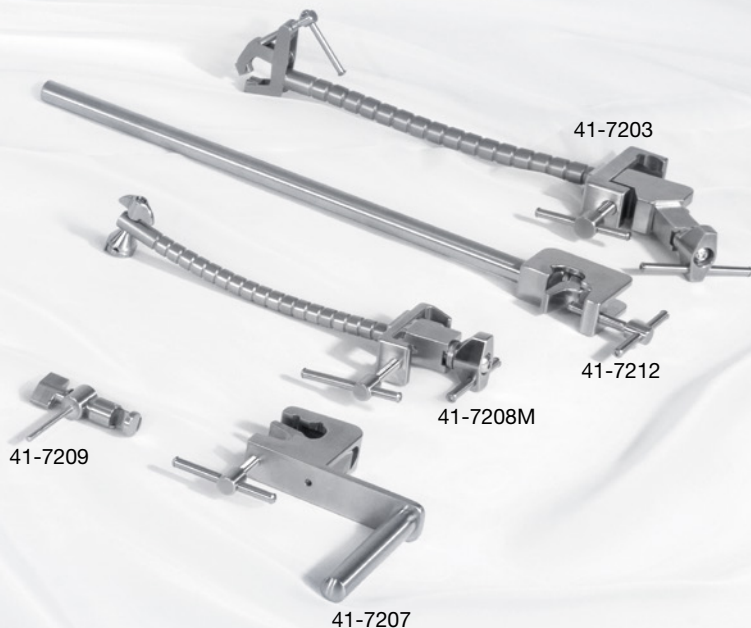
41-7217



41-7215



Further information see [www.geister.com](http://www.geister.com)



## Retractor and Stabilisation System Set

### Stainless Steel

Art.-No.	Description	Qty.
<b>41-7200</b>	<b>Consisting of:</b>	
<b>41-7199</b>	Tray with lid, with 4 compartments	1
<b>41-7202</b>	Hand Rest 250 mm	2
<b>41-7204</b>	Long Retractor Arm 240 mm	4
<b>41-7205</b>	Primary Bar 150 mm	2
<b>41-7211</b>	Floating Secondary Bar 300 mm	4
<b>41-7215</b>	Tapered Blade conical 4 x 16 mm, 230 mm	1
<b>41-7216</b>	Tapered Blade conical 2.4 - 9.5 mm, 230 mm	1
<b>41-7217</b>	Tapered Blade conical 3.2 - 12.7 mm, 230 mm	1
<b>41-7218</b>	Tapered Blade conical 6 x 19 mm, 230 mm	1
<b>41-7219</b>	Tapered Blade conical 1.6 - 19 mm, 230 mm	1
<b>41-7220</b>	Pattie Tray Aluminium	1

### optional accessories (to be ordered separately)

Art.-No.	Description
<b>41-7203</b>	Short Retractor Arm 165 mm
<b>41-7207</b>	Short Coupler
<b>41-7208S</b>	Instrument Holder small < 3 mm
<b>41-7208M</b>	Instrument Holder medium < 8 mm
<b>41-7208L</b>	Instrument Holder large < 25 mm
<b>41-7208X</b>	Instrument Holder extra-large < 51 mm
<b>41-7209</b>	Maxi-Vise Adapter
<b>41-7212</b>	Fixed Secondary Bar 300 mm



## Cushing-Landolt

Specula

Fig.	Art.-No.	Length x Width mm
A	29-4200	70 x 15
A	29-4201	90 x 15
A	29-4202	110 x 15



## Papavero-Caspar

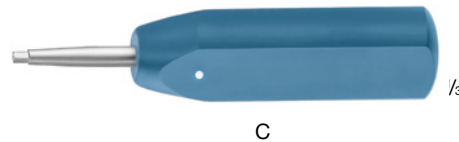
Specula

(including Screw Driver 29-4215)

Fig.	Art.-No.	Length x Width mm
B	29-4211	80 x 11
B	29-4212	90 x 13
B	29-4213	100 x 15

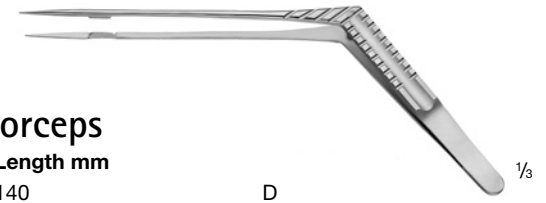
## Screw Driver

Fig.	Art.-No.
C	29-4215



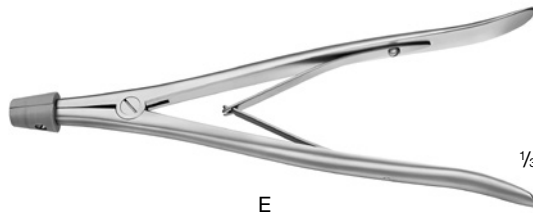
## Tissue Forceps

Fig.	Art.-No.	Length mm
D	41-3155	140



## Spreader for specula

Fig.	Art.-No.	Length mm
E	29-4220	210

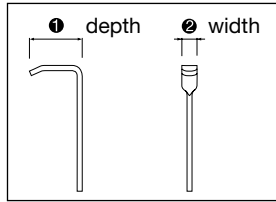


## Specula

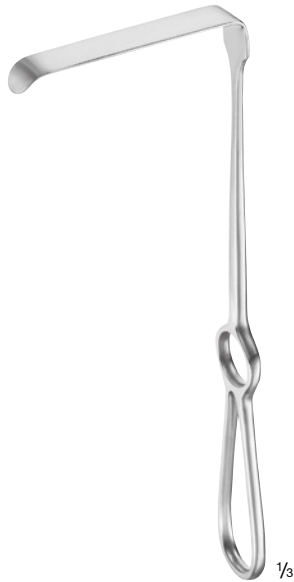
Fig.	Art.-No.
F	29-4221







- ❶ first number = depth  
❷ second number = width



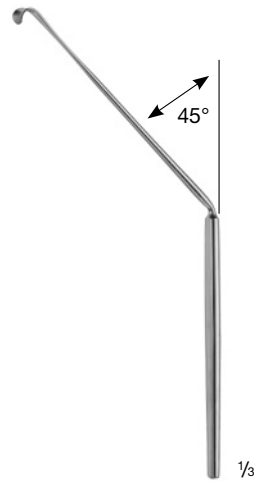
G

1/3



H

1/3



I

1/3



J

1/3

## Obwegeser

Soft Tissue Retractor  
Length 225 mm

Fig.	Art.-No.	Depth x Width mm
G	30-0215	80 x 16

## Hess

Length 175 mm

Fig.	Art.-No.	Width mm
H	30-0265	3
H	30-0266	5
H	30-0267	7

## Love

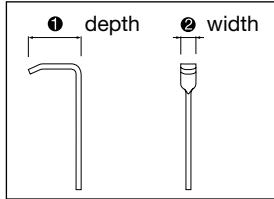
Length 190 mm

Fig.	Art.-No.	angled
I	30-0260	0°
I	30-0261	45°
I	30-0262	90°

## Caspar-type

Length 245 mm

Fig.	Art.-No.	Width mm
J	41-6020.4	4
J	41-6020	6
J	41-6022	8
J	41-6024	10

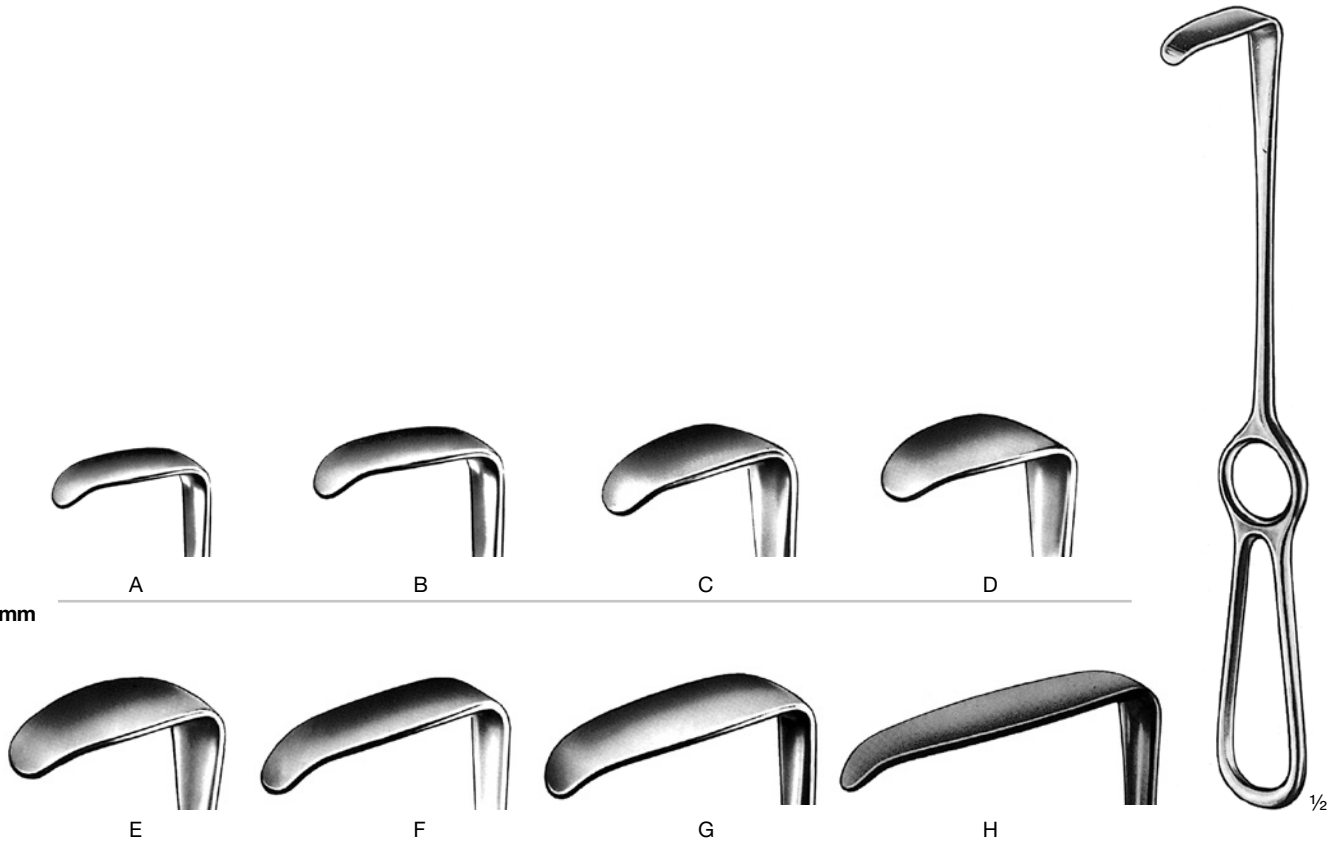


- ❶ first number = depth
- ❷ second number = width

## Langenbeck

Length 210 mm

Fig.	Art.-No.	Depth x Width mm
A	30-0009	20 x 7
B	30-0010	30 x 11
C	30-0011	30 x 14
D	30-0012	30 x 16
E	30-0013	33 x 14
F	30-0014	40 x 11
G	30-0015	42 x 13
H	30-0016	50 x 11





1/2



A



B



C



D



E



F



G



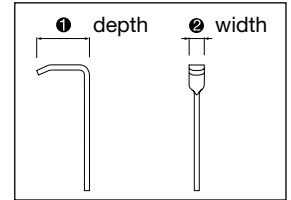
H



I



J



- ① first number = depth
- ② second number = width

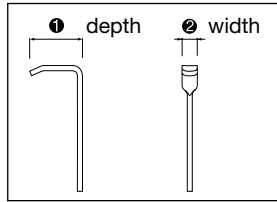
## Kocher-Langenbeck

Length 215 mm

Fig.	Art.-No.	Depth x Width mm
A	30-0019	25 x 6
B	30-0020	25 x 8
C	30-0021	35 x 8
D	30-0022	35 x 11
E	30-0023	35 x 15
F	30-0024	40 x 11
G	30-0025	55 x 11
H	30-0026	70 x 14
I	30-0027	80 x 12
J	30-0028	80 x 16



Hand-held Retractors

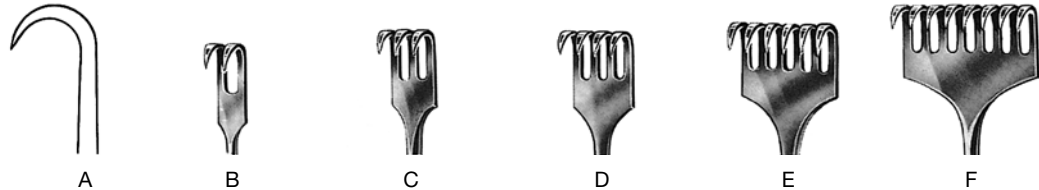


① first number = depth  
 ② second number = width

**Volkman**

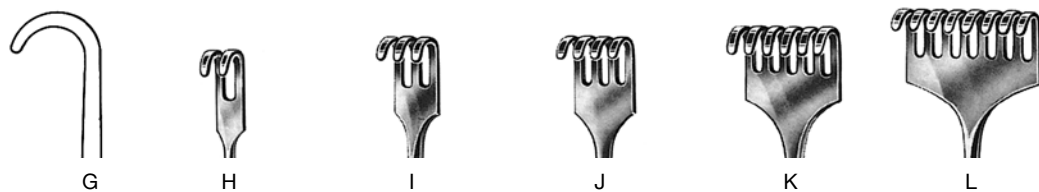
Length 220 mm  
 sharp

Fig.	Art.-No.	Depth x Width mm
A	30-1510	9
B	30-1511	9x8
C	30-1512	9x13
D	30-1513	9x19
E	30-1514	9x29
F	30-1515	9x40



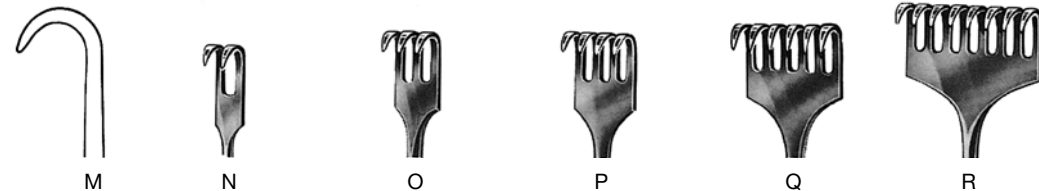
blunt

Fig.	Art.-No.	Depth x Width mm
G	30-1530	9
H	30-1531	9x8
I	30-1532	9x13
J	30-1533	9x19
K	30-1534	9x29
L	30-1535	9x40

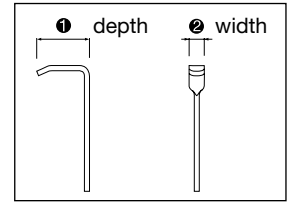


semi-blunt

Fig.	Art.-No.	Depth x Width mm
M	30-1520	9
N	30-1521	9x8
O	30-1522	9x13
P	30-1523	9x19
Q	30-1524	9x29
R	30-1525	9x40



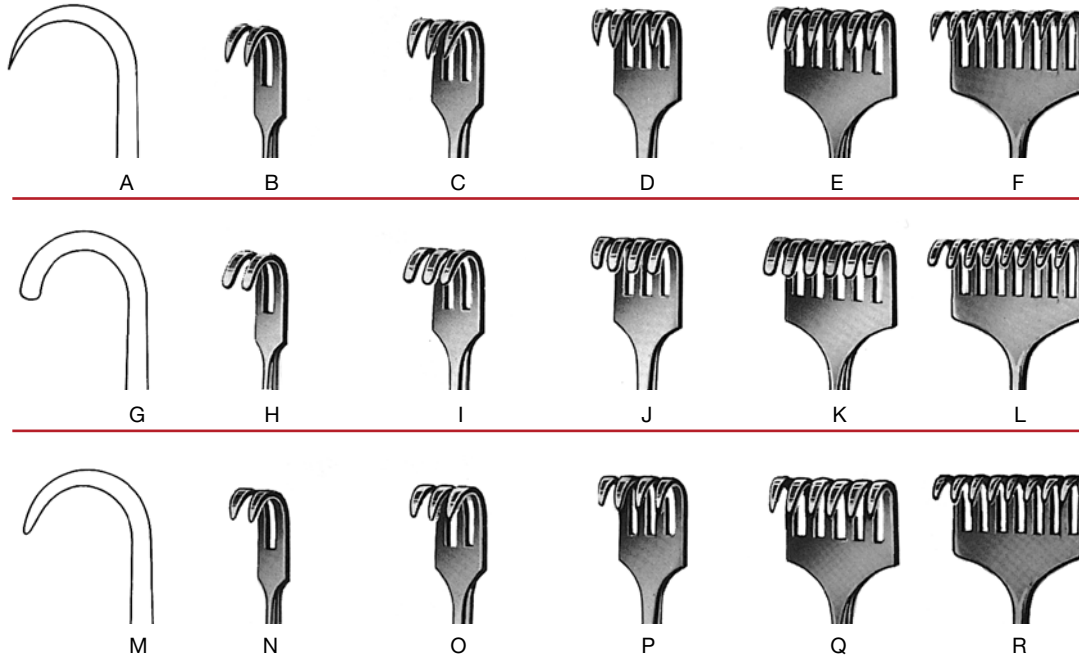
1/2



① first number = depth  
② second number = width



1/2



**Kocher**

Length 220 mm  
sharp

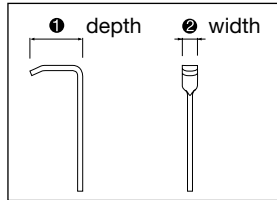
Fig.	Art.-No.	Depth x Width mm
A	30-1540	15
B	30-1541	15 x 10
C	30-1542	15 x 15
D	30-1543	15 x 20
E	30-1544	15 x 30
F	30-1545	15 x 40

blunt

Fig.	Art.-No.	Depth x Width mm
G	30-1560	15
H	30-1561	15 x 10
I	30-1562	15 x 15
J	30-1563	15 x 20
K	30-1564	15 x 30
L	30-1565	15 x 40

semi-blunt

Fig.	Art.-No.	Depth x Width mm
M	30-1550	15
N	30-1551	15 x 10
O	30-1552	15 x 15
P	30-1553	15 x 20
Q	30-1554	15 x 30
R	30-1555	15 x 40



- ① first number = depth  
② second number = width

## Lukens

Length 170 mm

Fig.	Art.-No.	Depth × Width mm
A	30-0190	17 × 8 <b>A</b> 13 × 10 <b>B</b>

## Jackson

Length 170 mm

Fig.	Art.-No.	Depth × Width mm
B	30-0191	8 × 9 <b>A</b> 13 × 10 <b>B</b>

## Cope

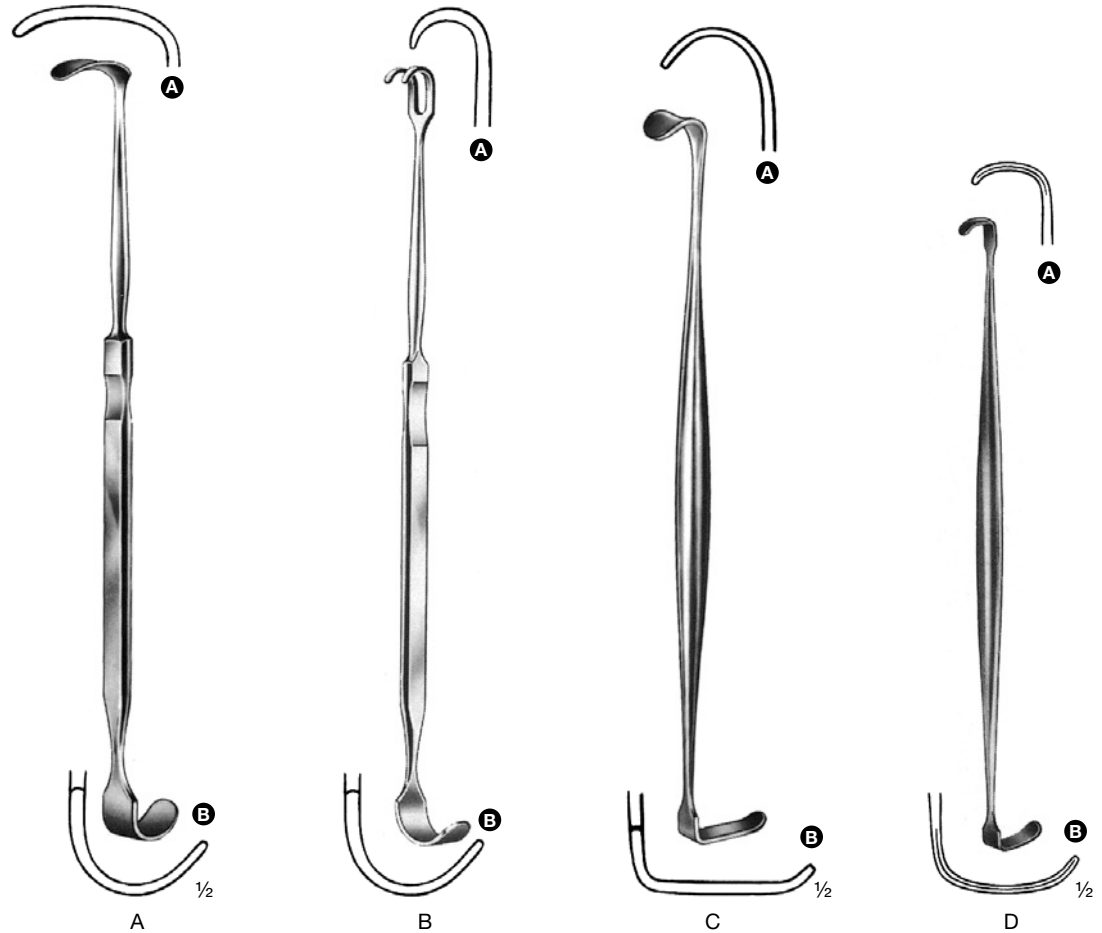
Length 160 mm

Fig.	Art.-No.	Depth × Width mm
C	30-0192	12 × 12 <b>A</b> 21 × 6 <b>B</b>

## Ragnell-Davis

Length 140 mm

Fig.	Art.-No.	Depth × Width mm
D	30-0170	8 × 4 <b>A</b> 15 × 5.5 <b>B</b>



GEISTER®

DMU 40 eVo linear

DMU 40 eVo

BICKEL MANN

DMU 40 eVo

BICKEL MANN

## MANUFACTURER

**Manufacturing and craftsmanship know-how passed down for generations.**

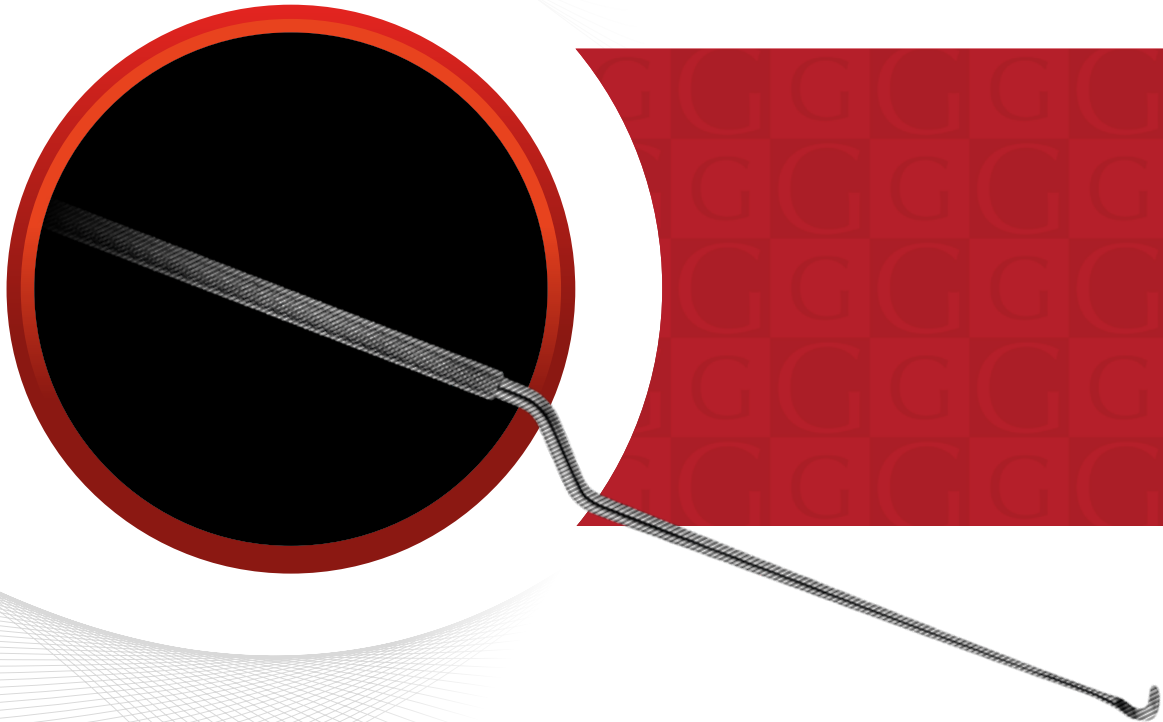
Our company was founded in 1984. From the beginning we had the goal to supply the surgical industry and the surgeons worldwide with outstanding products to support them in the care of their patients.

Today we are one of the leading German manufacturers of surgical instruments and accessories. Our extensive range of more than 20000 quality products for operative surgery is distributed in over 95 countries around the globe. Skilled craftsmanship and technological competence are

the basics for the measurable quality of every single instrument, which leaves our facility.

Integrity guides our conduct toward our costumers, business partners and the general public. We share the core values of lived tradition with the steady pursuit of technological progress and take on our social and environmental responsibility in a global economy. Reliability, quality, service and innovation make us a preferred partner for health-care professionals worldwide.

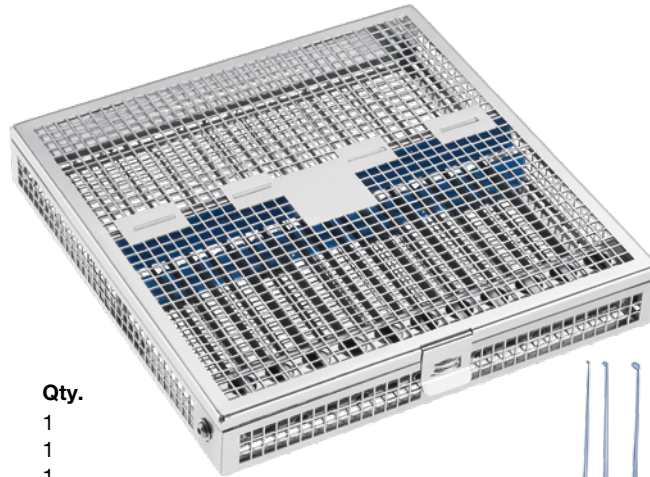






**Micro-Hand-Instruments**





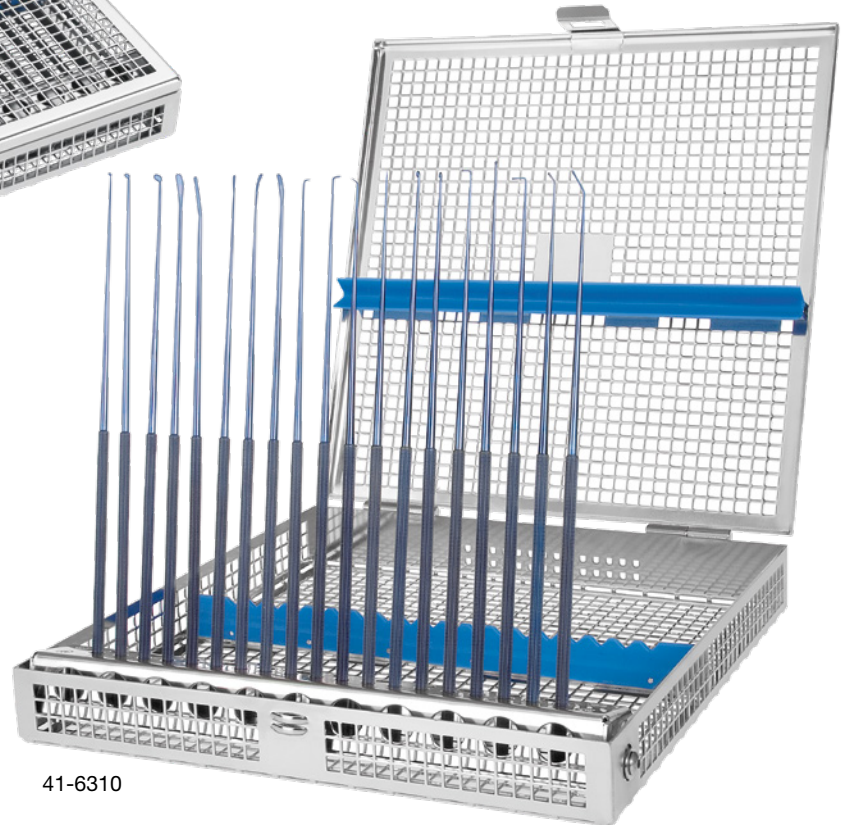
## Set in container

with titanium instruments

41-6310 Consisting of			
Art.-No.	Qty.	Art.-No.	Qty.
41-6290	1	41-6300	1
41-6291	1	41-6301	1
41-6292	1	41-6302	1
41-6293	1	41-6303	1
41-6294	1	41-6304	1
41-6295	1	41-6305	1
41-6296	1	41-6306	1
41-6297	1	41-6307	1
41-6298	1	41-6308	1
41-6299	1	41-6309	1 (Tray)

with stainless instruments

41-6030 Consisting of			
Art.-No.	Qty.	Art.-No.	Qty.
41-6031	1	41-6041	1
41-6032	1	41-6042	1
41-6033	1	41-6043	1
41-6034	1	41-6044	1
41-6035	1	41-6045	1
41-6036	1	41-6046	1
41-6037	1	41-6047	1
41-6038	1	41-6048	1
41-6039	1	41-6048L	1
41-6040	1	41-6049	1 (Tray)



41-6310



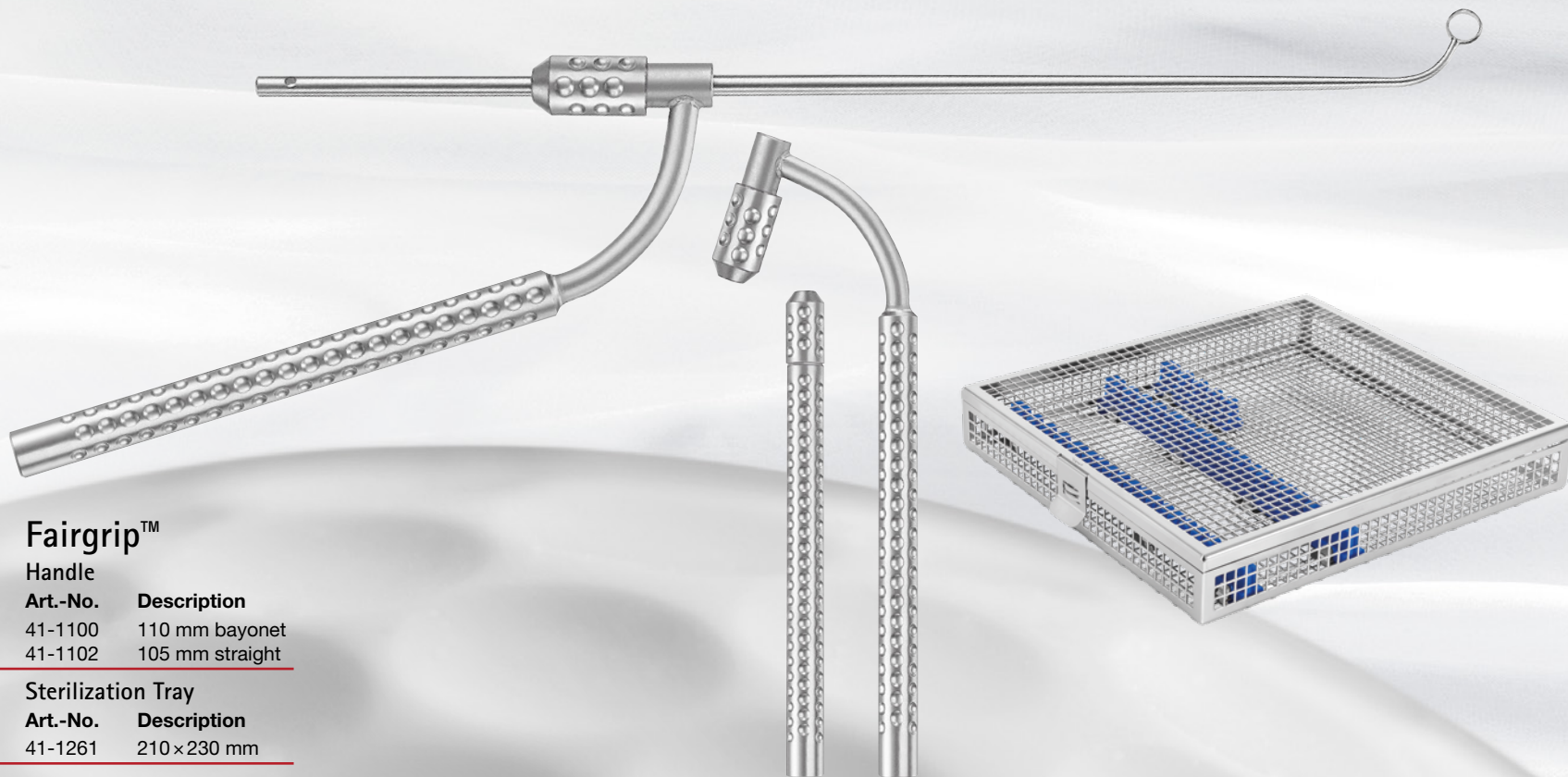
Length 190 mm

	Dissectors			Elevators		Spatula	Dissectors			90° Hooks	
Description	1.0 mm	2.0 mm	3.0 mm	curved	angled		small	medium	large	semi-sharp	blunt
<b>Titanium</b>	Art.-No. 41-6290	Art.-No. 41-6291	Art.-No. 41-6292	Art.-No. 41-6293	Art.-No. 41-6294	Art.-No. 41-6295	Art.-No. 41-6296	Art.-No. 41-6297	Art.-No. 41-6298	Art.-No. 41-6299	Art.-No. 41-6040
<b>Stainless</b>	Art.-No. 41-6031	Art.-No. 41-6032	Art.-No. 41-6033	Art.-No. 41-6034	Art.-No. 41-6035	Art.-No. 41-6036	Art.-No. 41-6037	Art.-No. 41-6038	Art.-No. 41-6039	Art.-No. 41-6040	

	45° Hook	Needle	Curettes		Ball	Dissectors				
Description	semi-sharp	straight	straight	angled		3 mm, 90°	0° straight	5 mm, 90°	4 mm, 40°	8 mm, 40°
<b>Titanium</b>	Art.-No. 41-6300	Art.-No. 41-6301	Art.-No. 41-6302	Art.-No. 41-6303	Art.-No. 41-6304	Art.-No. 41-6305	Art.-No. 41-6306	Art.-No. 41-6307	Art.-No. 41-6308	Art.-No. 41-6309
<b>Stainless</b>	Art.-No. 41-6041	Art.-No. 41-6042	Art.-No. 41-6043	Art.-No. 41-6044	Art.-No. 41-6045	Art.-No. 41-6046	Art.-No. 41-6047	Art.-No. 41-6048	Art.-No. 41-6049	Art.-No. 41-6040L



Without compromising microscope vision, the bayonet design and the unique “golfball”-style knurling allows to reach deep into narrow locations with a secure but relaxed grip and with highly precise fingertip control. Perfect balance and ergonomic design in combination with multi-directionally adjustable tip inserts minimizes fatigue and largely avoids physiological tremor. A wide selection of tip inserts are available in 16cm or 21cm versions.



## Fairgrip™

### Handle

Art.-No.	Description
41-1100	110 mm bayonet
41-1102	105 mm straight

### Sterilization Tray

Art.-No.	Description
41-1261	210 × 230 mm

Inserts ø 3 mm

Ring curette 90°		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1110	41-1200	2
		41-1111	41-1201	4
		41-1112	41-1202	6
Ring curette 45°		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1113	41-1203	2
		41-1114	41-1204	4
		41-1115	41-1205	6
Ring curette 45°		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1116	41-1206	2
		41-1117	41-1207	4
		41-1118	41-1208	6
Ring curette 40°		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1146	41-1233	2
		41-1147	41-1234	4
		41-1148	41-1235	6
Ring curette 60°		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1149	41-1236	2
		41-1150	41-1237	4
		41-1151	41-1238	6
Dissector edged		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1120	41-1209	1
		41-1121	41-1210	2
		41-1122	41-1211	3
Dissector blunt		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1123	41-1212	1
		41-1128	41-1217	1.5
		41-1124	41-1213	2
		41-1125	41-1214	3
		41-1126	41-1215	4

Dissector blunt		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1127	41-1216	4
Bone curette		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1129	41-1218	2
		41-1130	41-1219	3
		41-1131	41-1220	4
Bone curette 45°		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1132	41-1221	2
		41-1133	41-1222	3
		41-1134	41-1223	4
Hook 45°		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1165	41-1250	1×2
		41-1166	41-1251	1×4
Hook 90°		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1137	41-1224	1×2
		41-1138	41-1225	1×3
		41-1142	41-1229	1×4
		41-1140	41-1227	1×5
		41-1141	41-1228	1×8
Hook, semi edged		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1143	41-1230	0.4×2
		41-1144	41-1231	0.4×3
Hook 45°		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1153	41-1252	1×3
Hook 90°		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1145	41-1232	1×3
		41-1154	41-1239	1×5
		41-1155	41-1240	1×8
Hook		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1156	41-1241	1×5

Hook 90° pointed		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1161	41-1246	3
Needle		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1160	41-1245	
Ball probe		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1157	41-1242	1
Lancet knife		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1158	41-1243	
Sickle knife		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1159	41-1244	
Pulling knife		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1139	41-1226	3.5
Knife		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1162	41-1247	4
Knife 45°		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1163	41-1248	2
		41-1164	41-1249	4
Micro Knife		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1167		
Dissector blunt 45°		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1168		2
		41-1169		4
Retrograde knife		Length 160 mm Art.-No.	Length 210 mm Art.-No.	Width mm
		41-1175		4
		41-1176		5



2/3



## Jacobson

Handle with chuck

**Art.-No.** 41-6159  
**Length mm** 105

Knife Tip

**Art.-No.** 41-6151  
**Length mm** 95



Hook Tip

**Art.-No.** 41-6156  
**Length mm** 85



2/3



Tissue Pick

**Art.-No.** 41-6268  
**Description** 1 mm  
**Length mm** 185



**Art.-No.** 41-6269  
**Description** 1.8 mm  
**Length mm** 185

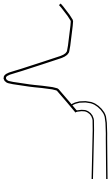
2/3



## Biemer

Spreader

**Art.-No.** 41-6270  
**Length mm** 160

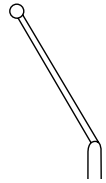


Dilators

**Art.-No.** 41-6271  
**Length mm** 125



**Art.-No.** 41-6272  
**Length mm** 125



**Art.-No.** 41-6273  
**Length mm** 125

## Jacobson

Probes with ball

**Art.-No.** 41-6275  
**Length mm** 185



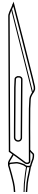
**Art.-No.** 41-6277  
**Length mm** 185



Blade Holders Fig.3

for scalpel blades Fig.3

**Art.-No.** 41-6019  
**Length mm** 210



for micro blades

**Art.-No.** 41-6012 41-6014  
**Length mm** 210 250



blades see page 292



Caspar-type

Exploration Hooks

**Art.-No.** 41-6070  
**Length mm** 245



**Art.-No.** 41-6072  
**Length mm** 245

**Art.-No.** 41-6074  
**Length mm** 245

**Art.-No.** 41-6076  
**Length mm** 245

Caspar-type

Insulated Hooks

**Art.-No.** 41-6071  
**Length mm** 245



**Art.-No.** 41-6073  
**Length mm** 245

**Art.-No.** 41-6075  
**Length mm** 245

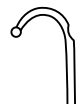
**Art.-No.** 41-6077  
**Length mm** 245



Yasargil-type

Ligature Hooks

**Art.-No.** 41-6080  
**Length mm** 185



**Art.-No.** 41-6081  
**Length mm** 185

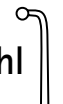
**Art.-No.** 41-6082  
**Length mm** 185

**Art.-No.** 41-6083  
**Length mm** 185

Krayenbuehl

Hooks

**Art.-No.** 41-6090  
**Length mm** 185

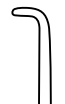


**Art.-No.** 41-6091  
**Length mm** 185

Krayenbuehl

Hooks

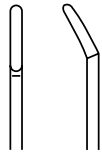
**Art.-No.** 41-6092  
**Length mm** 185



**Art.-No.** 41-6093  
**Length mm** 185



## Samii Tumor Knives

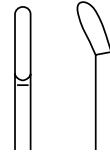


**1.0 mm**

**Description**

**Art.-No.** 41-6170 41-6180

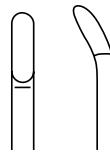
**Length mm** 200 230



**1.5 mm**

**Art.-No.** 41-6171 41-6181

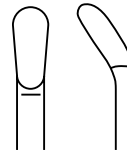
**Length mm** 200 230



**2.0 mm**

**Art.-No.** 41-6172 41-6182

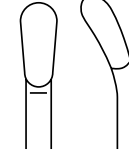
**Length mm** 200 230



**2.5 mm**

**Art.-No.** 41-6173 41-6183

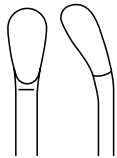
**Length mm** 200 230



**3.0 mm**

**Art.-No.** 41-6174 41-6184

**Length mm** 200 230

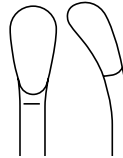


**3.5 mm**

**Description**

**Art.-No.** 41-6175 41-6185

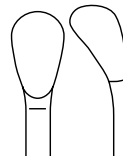
**Length mm** 200 230



**4.0 mm**

**Art.-No.** 41-6176 41-6186

**Length mm** 200 230



**5.0 mm**

**Art.-No.** 41-6177 41-6187

**Length mm** 200 230

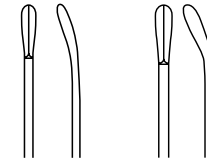


**Lancet type**

**Description**

**Art.-No.** 41-6200

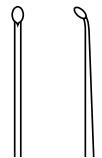
**Length mm** 230



**2.5 mm**

**Art.-No.** 41-6201

**Length mm** 230

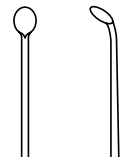


**1.5 mm**

**Description**

**Art.-No.** 41-6190 41-6195

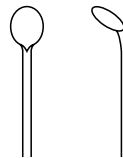
**Length mm** 200 230



**3.0 mm**

**Art.-No.** 41-6191 41-6196

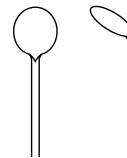
**Length mm** 200 230



**4.5 mm**

**Art.-No.** 41-6192 41-6197

**Length mm** 200 230



**6.0 mm**

**Art.-No.** 41-6193 41-6198

**Length mm** 200 230







**Yasargil-type**

Raspatories

<b>Art.-No.</b>	41-6110	41-6111	41-6112	41-6113
<b>Length mm</b>	230	185	185	185

Sharp Scoop

<b>Art.-No.</b>	41-6127
<b>Length mm</b>	185

**Caspar-type**

Suture Pusher

<b>Art.-No.</b>	41-6265
<b>Length mm</b>	230

**Koos**

Knives

<b>Description</b>	up	down	up	down	up	down
<b>Art.-No.</b>	41-6160	41-6161	41-6162	41-6163	41-6164	41-6165
<b>Length mm</b>	185	185	185	185	185	185

**Yasargil-type**

Knives

<b>Description</b>	up	down
<b>Art.-No.</b>	41-6166	41-6167
<b>Length mm</b>	185	185

**Caspar-type**

Dissectors

blunt

<b>Description</b>	4.5 mm	2.0 mm	1.0 mm	1.0 mm	2.0 mm	2.0 mm
<b>Art.-No.</b>	41-6230	41-6232	41-6234	41-6236	41-6238	41-6240
<b>Length mm</b>	230	230	210	210	230	230

2/3



## Micro Hand Instruments

## Yasargil-type

Raspatories

Art.-No.	41-6100	41-6101	41-6102	41-6103	41-6104	41-6105
Length mm	185	185	185	185	210	230

## Fisch

Micro Hooks

Description	sharp	blunt	90° curved sharp	90° angled sharp
Art.-No.	41-6140	41-6141	41-6142	41-6143
Length mm	230	230	185	185

## Caspar-type

Dissectors

Description	4.5 mm	1.0 mm	1.4 mm	2.0 mm	1.7 mm	sharp
Art.-No.	41-6210	41-6212	41-6214	41-6216	41-6218	41-6224
Length mm	230	200	230	230	230	185

## Obonek-Yasargil-type

Tumor Fork

Description	3 mm	4 mm	5 mm	8 mm
Art.-No.	41-6250	41-6251	41-6252	41-6253
Length mm	230	230	230	230



## Sharp Scoops

Art.-No.	41-6120	41-6121
Length mm	230	230

## Jacobson

Knife

Art.-No.	41-6145
Length mm	185

## Caspar-type

Long Dissector

Description	3 mm blunt
Art.-No.	41-6220 41-6222
Length mm	185 215

## Jacobson

Suture Pusher

Art.-No.	41-6260
Length mm	185





Hardy					
Fig. A	Description	blunt right	blunt left	sharp right	sharp left
	Art.-No.	41-8030	41-8031	41-8034	41-8035
	Length mm	245	245	245	245
Fig. B	Description	blunt right	blunt left	sharp right	sharp left
	Art.-No.	41-8032	41-8033	41-8036	41-8037
	Length mm	245	245	245	245

## Hardy-Fahlbusch

small-tip

Fig. A	Description	sharp
	Art.-No.	41-8040
	Length mm	245



Fig. B	Description	sharp
	Art.-No.	41-8039
	Length mm	245



## Landolt

malleable

Fig. A	Description	blunt right	blunt left
	Art.-No.	41-8050	41-8051
	Length mm	260	260
Fig. B	Description	blunt right	blunt left
	Art.-No.	41-8052	41-8053
	Length mm	260	260



## Landolt

### Curettes

malleable

**Art.-No.**  
**Length mm**



41-8054  
260



41-8055  
260

### Blunt Hook

malleable

**Art.-No.**  
**Length mm**



41-8056  
260



## Hosobuchi

### Fork Spatula

rigid

**Art.-No.**  
**Length mm**



41-8057  
260

## Landolt-Reulen

### Raspatories

rigid

**Description**  
**Art.-No.**  
**Length mm**



**2.2 mm**  
41-8072  
260



**3.2 mm**  
41-8073  
260

### Curette

rigid

**Description**  
**Art.-No.**  
**Length mm**



**2.5 mm**  
41-8074  
260

## Landolt-Reulen

### Blunt Hook

rigid

**Description**  
**Art.-No.**  
**Length mm**



**1.7 mm**  
41-8075  
260

### Dissector

rigid

**Description**  
**Art.-No.**  
**Length mm**



**2 mm**  
41-8076  
260

## Fahlbusch

### Scoop

malleable

**Art.-No.**  
**Length mm**



41-8070  
260

### Curette

malleable

**Description**  
**Art.-No.**  
**Length mm**



**2.5 mm**  
41-8071  
260

## Hardy

### Fork

**Art.-No.**  
**Length mm**

41-8038  
245



1/3



### Hardy Curettes

malleable

**Description**  
**Art.-No.**  
**Length mm**



**ø 4 mm**  
41-8041  
260



**ø 6 mm**  
41-8042  
260



### Nicola

Curettes

malleable,  
ø 6.5 mm

**Description**  
**Art.-No.**  
**Length mm**



**cutting right**  
41-8020  
215



**cutting left**  
41-8021  
215



41-8022  
215



Raspatory

**Art.-No.**  
**Length mm**

41-8023  
215



### Ray

Curette

ø 4 mm

**Description**  
**Art.-No.**  
**Length mm**



**horizontal 45°**  
41-8010  
180



**vertical 45°**  
41-8011  
180



## Smithwick

Fig.	Art.-No.	Length mm
A	30-0310	170
A	30-0311	210
B	30-0270	290

## Hoer

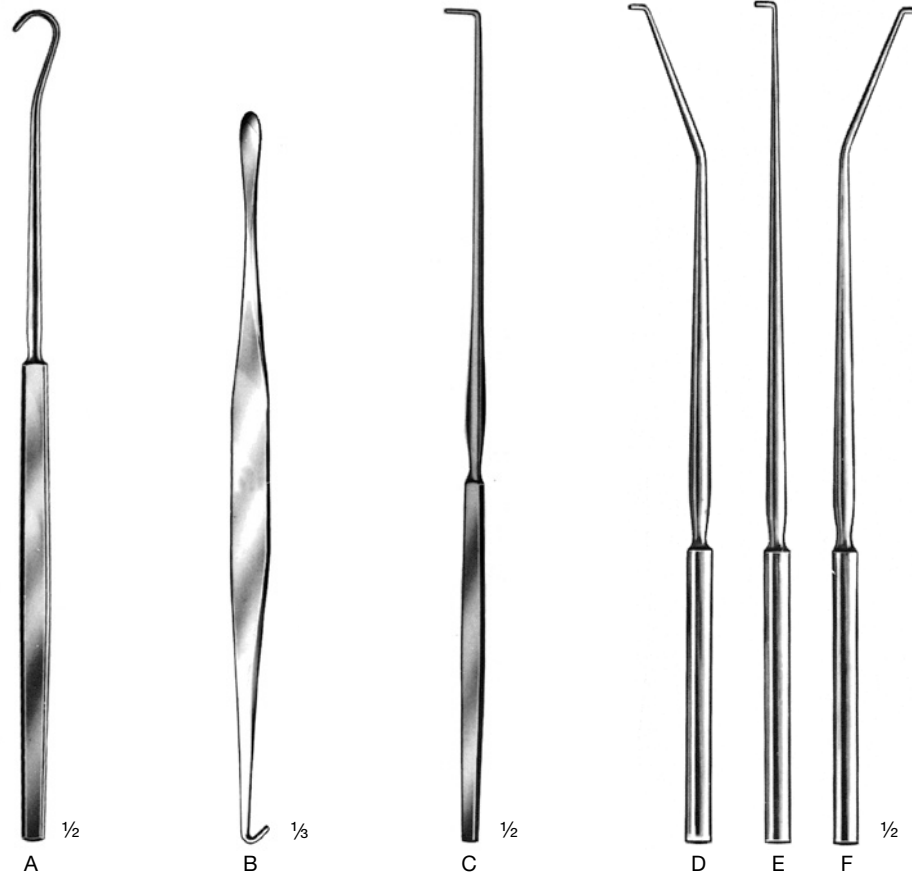
Depth 11 mm

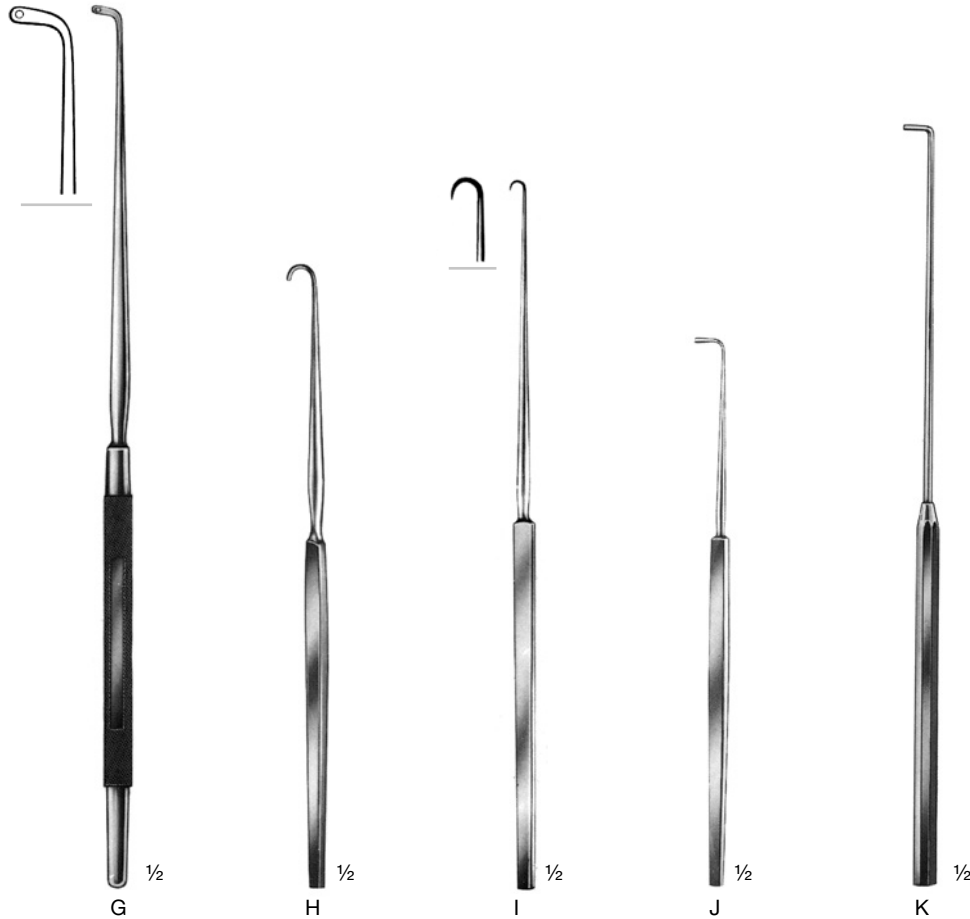
Fig.	Art.-No.	Length mm
C	30-0275	220

## Dandy

Depth 4 mm

Fig.	Art.-No.	Length mm
D	30-0280	220
E	30-0281	220
F	30-0282	220





## Adson

Ligature Needle

Fig.	Art.-No.	Length mm
G	30-0283	230

## Graham

Fig.	Art.-No.	Length mm
H	30-0284	165

## Sachs

sharp

Fig.	Art.-No.	Length mm
I	30-0285	185

## Crile

Fig.	Art.-No.	Length mm	Depth mm
J	30-0299	145	7
K	30-0300	200	7



### Cushing

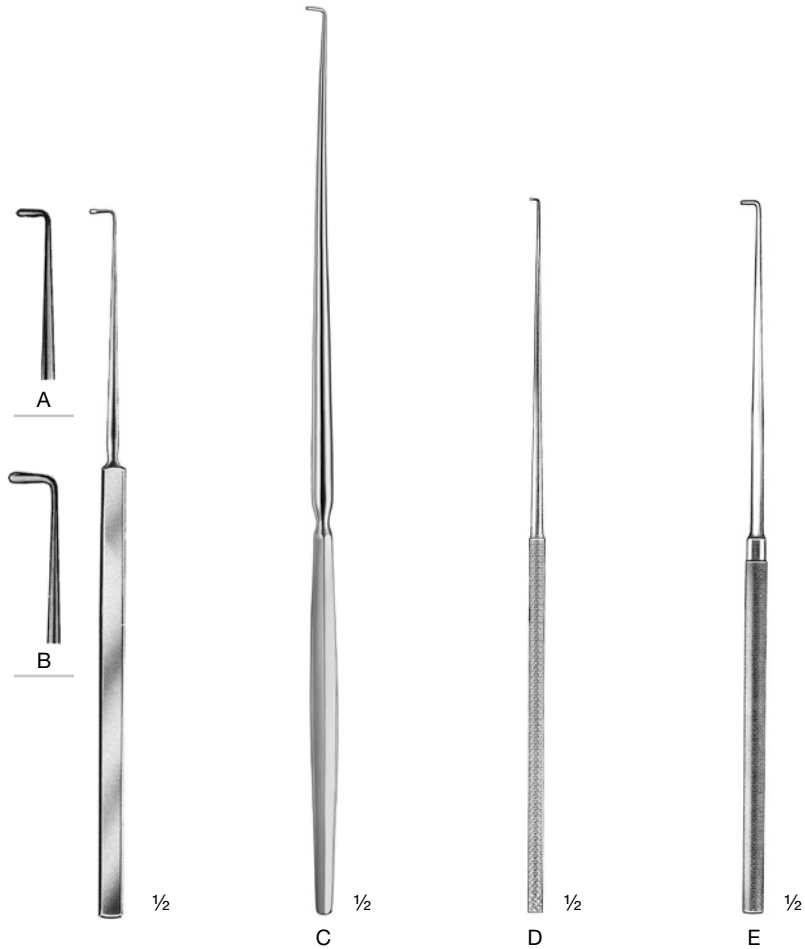
Fig.	Art.-No.	Length mm	Depth mm
A	30-0304	190	5
B	30-0305	190	7
A	30-0306	280	5
B	30-0307	280	7

### Blalock

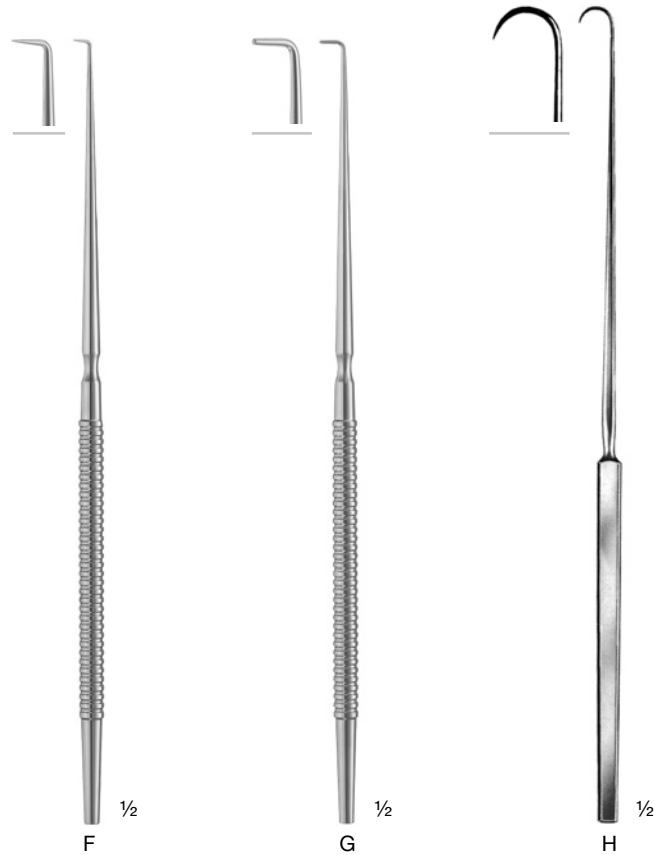
Fig.	Art.-No.	Length mm
C	30-0301	240

### Fine Hook

Fig.	Art.-No.	Length mm	Description
D	41-1015	190	with ball
E	41-1053	190	







### Adson

Fig.	Art.-No.	Length mm	Description
F	30-0315	200	sharp
G	30-0316	200	blunt

### Sachs

Fig.	Art.-No.	Length mm	Description
H	30-0312	210	sharp



## Kleinert-Kutz

sharp

Fig.	Art.-No.	Length mm	Size
A	30-0326	160	S
B	30-0327	160	M
C	30-0328	160	L

## Gillies

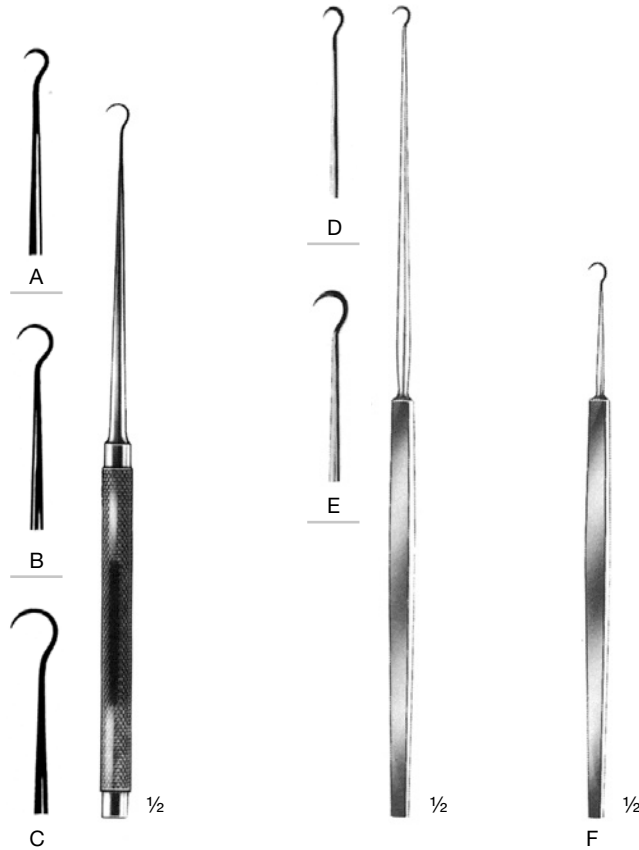
sharp

Fig.	Art.-No.	Length mm	Size
D	30-0317	180	S
E	30-0318	180	L

## Frazier

sharp

Fig.	Art.-No.	Length mm
F	30-0320	130





For hand surgery see our special catalog.  
[www.geister.com](http://www.geister.com)



## Hartmann

sharp

Fig.	Art.-No.	Length mm
G	30-0314	160

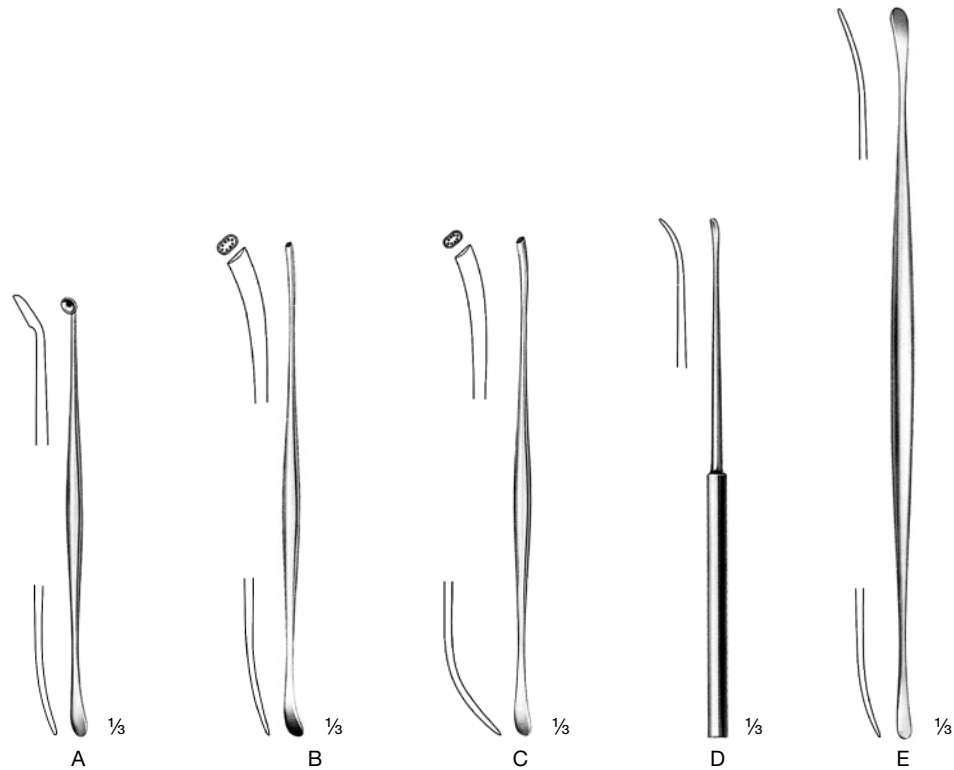
## Kilner

sharp

Fig.	Art.-No.	Length mm
H	30-0313	150

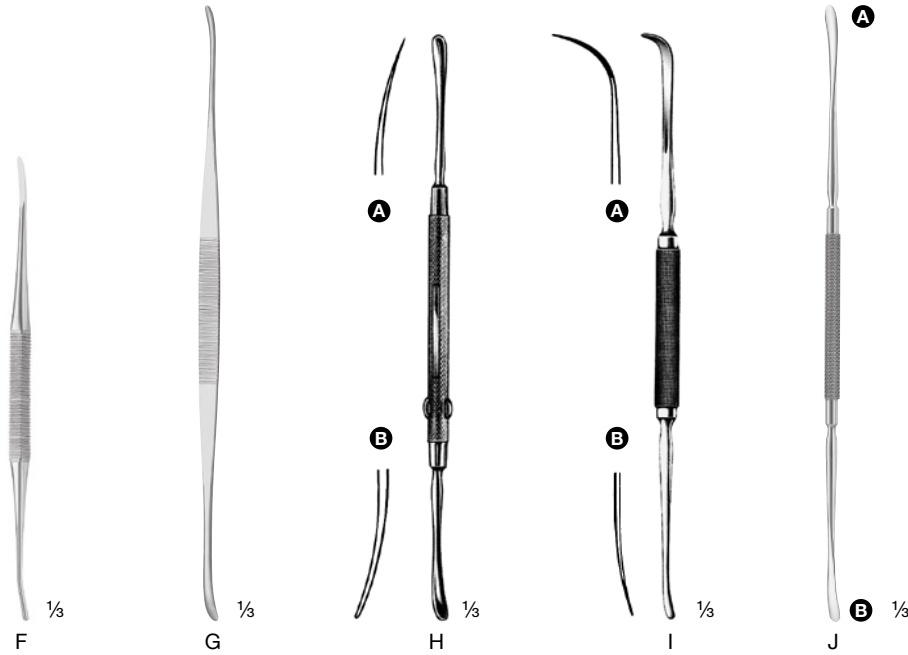
## Boehler

Fig.	Art.-No.	Length mm
I	30-0297	150



## Penfield

Fig.	Art.-No.	Length mm
A	28-0041	175
B	28-0042	195
C	28-0043	195
D	28-0044	205
E	28-0045	290



### Watson-Cheyne

Dissector

Fig.	Art.-No.	Length mm
F	28-0030	180

### Toennis

Dissector

Fig.	Art.-No.	Length mm	Description
G	28-0035	240	small
G	28-0036	240	wide

### Freer

Elevator

Fig.	Art.-No.	Length mm	Description
H	28-0071	200	sharp <b>A</b> / blunt <b>B</b>
I	28-0072	200	sharp <b>A</b> / blunt <b>B</b>

### Davis

Dissector

Fig.	Art.-No.	Length mm	Description
J	28-0010	245	sharp <b>A</b> / blunt <b>B</b>



## Olivecrona

### Dissector

Fig.	Art.-No.	Length mm	A Width mm	B Width mm
A	28-0080	185	3	2
A	28-0082	240	3	2
A	28-0084	195	5	4
A	28-0086	240	5	4

## Micro Dissector

Fig.	Art.-No.	Length mm	Width mm
B	28-0065	185	3
B	28-0066	215	3

## Mc Donald

### Dissector

Fig.	Art.-No.	Length mm
C	28-0020	180

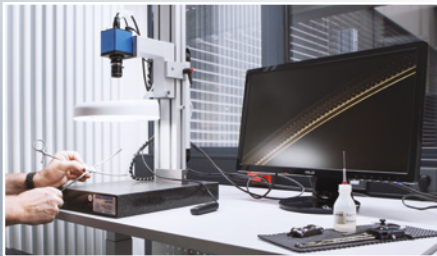
## Dorsey

### Separator

Fig.	Art.-No.	Length mm	Depth x Width mm
D	28-0180	150	17 x 5



# GEISTER®

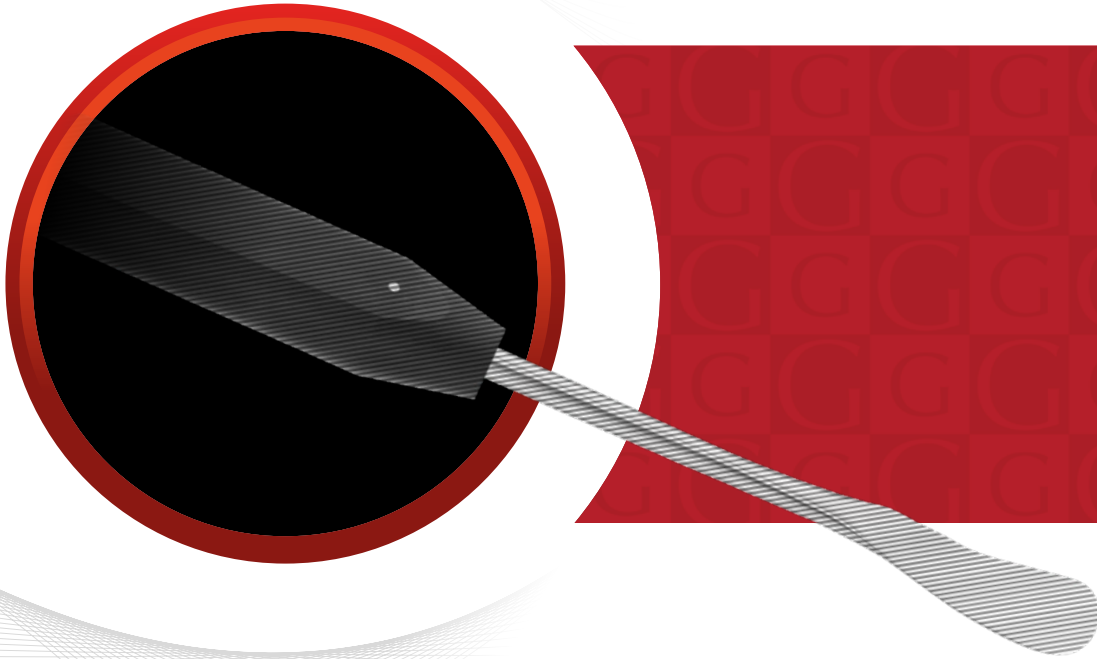


## QUALITY GUARANTEE

**Experience why German workmanship enjoys a solid reputation in the surgical field since over a century.**

We take commitments to earn the opportunity and the trust to serve the needs of today's healthcare professionals and will manufacture and distribute cost-effective, reliable and highest quality solutions for today's challenging healthcare environment. **GEISTER MEDIZINTECHNIK GMBH** offers to its customers a range of more than 20.000 different articles - a huge selection, that is continuously expanded and ad-

justed to the requirements. As a manufacturer of the highest quality surgical products we always want to satisfy our customers completely and sustainably and give them the best possible service, also beyond the sale. All surgical devices are guaranteed against defects in material and workmanship when used for their intended surgical purpose and cared for in accordance with recommended procedures.





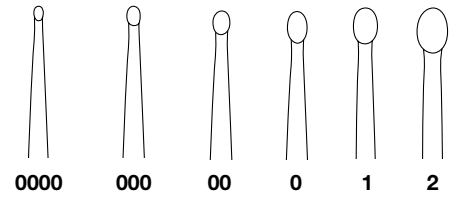
Curettes | Chisels | Gouges





## Bayonet Style Curette – Fairgrip™

Curette Dimension Chart (Actual Size Shown)



## Fairgrip™

### Get in touch with FAIRGRIP™ !

Unmatched feel and control are brought from the fairway to your OR. The FAIRGRIP™ ergonomic instrument handles with a new dimple knurling similar to the design of golfballs offer a completely new experience of precision, sensitivity and control and help to reduce fatigue.

- Ergonomic Fairgrip™ golfball handle design with round corners for easy rotation and flat sides for controlled torque
- Increased field visualization
- Stable and controlled power leverage
- Great precision and maximum control
- Multiple tip geometries available

## Set 1

(small anatomy, short)

Length 210 mm

**40-7700** Consisting of  
**Art.-No. Description**

**forward straight**

40-7701	Fig. 0, 3×5 mm
40-7702	Fig. 00, 2.5×4 mm
40-7703	Fig. 000, 2×3.3 mm
40-7704	Fig. 0000, 1.7×3 mm

**forward angle**

40-7706	Fig. 0, 3×5 mm
40-7707	Fig. 00, 2.5×4 mm
40-7708	Fig. 000, 2×3.3 mm
40-7709	Fig. 0000, 1.7×3 mm

**backward straight**

40-7711	Fig. 0, 3×5 mm
40-7712	Fig. 00, 2.5×4 mm
40-7713	Fig. 000, 2×3.3 mm
40-7714	Fig. 0000, 1.7×3 mm

**backward angle**

40-7716	Fig. 0, 3×5 mm
40-7717	Fig. 00, 2.5×4 mm
40-7718	Fig. 000, 2×3.3 mm
40-7719	Fig. 0000, 1.7×3 mm

**Hooks**

40-7721	Micro Hook
40-7722	Ultra Micro Hook

**Bone Waxer**

40-7723	
---------	--

## Set 2

(small anatomy, long)

Length 240 mm

**40-7730** Consisting of

**Art.-No. Description**

forward straight

40-7731	Fig. 0, 3×5 mm
40-7732	Fig. 00, 2.5×4 mm
40-7733	Fig. 000, 2×3.3 mm
40-7734	Fig. 0000, 1.7×3 mm

forward angle

40-7736	Fig. 0, 3×5 mm
40-7737	Fig. 00, 2.5×4 mm
40-7738	Fig. 000, 2×3.3 mm
40-7739	Fig. 0000, 1.7×3 mm

backward straight

40-7741	Fig. 0, 3×5 mm
40-7742	Fig. 00, 2.5×4 mm
40-7743	Fig. 000, 2×3.3 mm
40-7744	Fig. 0000, 1.7×3 mm

backward angle

40-7746	Fig. 0, 3×5 mm
40-7747	Fig. 00, 2.5×4 mm
40-7748	Fig. 000, 2×3.3 mm
40-7749	Fig. 0000, 1.7×3 mm

Hooks

40-7751	Micro Hook
40-7752	Ultra Micro Hook

Bone Waxer

40-7753

## Set 3

(larger anatomy)

Length 240 mm

**40-7760** Consisting of

**Art.-No. Description**

forward straight

40-7761	Fig. 0
40-7762	Fig. 1
40-7763	Fig. 2

forward angle

40-7764	Fig. 0
40-7765	Fig. 1
40-7766	Fig. 2

forward down

40-7767	Fig. 0
40-7768	Fig. 1
40-7769	Fig. 2

backward straight

40-7770	Fig. 0
40-7771	Fig. 1
40-7772	Fig. 2

backward angle

40-7773	0
40-7774	1
40-7775	2

backward down

40-7776	0
40-7777	1
40-7778	2

Penfield #1

40-7779

Penfield #2

40-7780

Hook

40-7781

Penfield #4

40-7782

Bone Waxer

40-7793

Probe

40-7794



## Sterilization Tray

for 12 Currettes, with 2 permanent filters

**Art.-No. Description**

**40-7799** 285×280×65 mm



## Epstein

Length 220 mm

Fig.	Art.-No.	Description
A	40-4270	Fig. 000, 2.0 mm
A	40-4271	Fig. 00, 2.5 mm
A	40-4272	Fig. 0, 3.0 mm

## Volkmann

PPSU handle,  
Length 270 mm

Fig.	Art.-No.	Description
B	40-7450	Fig. 00, 4.4 mm
B	40-7451	Fig. 1, 6.8 mm
B	40-7452	Fig. 2, 8.5 mm
B	40-7453	Fig. 3, 10.0 mm

Length 430 mm

Fig.	Art.-No.	Description
B	40-7460.02	2.0 mm
B	40-7460.04	3.5 mm
B	40-7460.06	5.5 mm
B	40-7460.08	7.5 mm



## Bruns

Length 170 mm

Fig.	Art.-No.	Description
C	40-4462	Fig. 0000, 2.6 mm
C	40-4464	Fig. 000, 3.3 mm
C	40-4466	Fig. 00, 4.8 mm
C	40-4468	Fig. 0, 5.8 mm
C	40-4470	Fig. 1, 7.3 mm
C	40-4472	Fig. 2, 8.3 mm
C	40-4474	Fig. 3, 10.2 mm
C	40-4476	Fig. 4, 11.8 mm
C	40-4478	Fig. 5, 12.8 mm
C	40-4480	Fig. 6, 14.0 mm





## Hibbs-Spratt (Bruns)

Length 230 mm  
straight

Fig.	Art.-No.	Description
D	40-4280	Fig. 00000, 2.2 mm
D	40-4281	Fig. 0000, 2.5 mm
D	40-4282	Fig. 000, 2.8 mm
D	40-4283	Fig. 00, 3.3 mm
D	40-4284	Fig. 0, 3.7 mm
D	40-4285	Fig. 1, 4.3 mm
D	40-4286	Fig. 2, 4.8 mm
D	40-4287	Fig. 3, 5.6 mm
D	40-4288	Fig. 4, 6.1 mm
D	40-4289	Fig. 5, 6.7 mm
D	40-4290	Fig. 6, 8.7 mm
D	40-4291	Fig. 7, 11 mm



## Hibbs-Spratt (Bruns)

Length 230 mm  
forward angled

Fig.	Art.-No.	Description
E	40-4300	Fig. 00000, 2.2 mm
E	40-4301	Fig. 0000, 2.5 mm
E	40-4302	Fig. 000, 2.8 mm
E	40-4303	Fig. 00, 3.3 mm
E	40-4304	Fig. 0, 3.7 mm
E	40-4305	Fig. 1, 4.3 mm
E	40-4306	Fig. 2, 4.8 mm
E	40-4307	Fig. 3, 5.6 mm
E	40-4308	Fig. 4, 6.1 mm
E	40-4309	Fig. 5, 6.7 mm
E	40-4310	Fig. 6, 8.7 mm

reverse angled

Fig.	Art.-No.	Description
F	40-4320	Fig. 00000, 2.2 mm
F	40-4321	Fig. 0000, 2.5 mm
F	40-4322	Fig. 000, 2.8 mm
F	40-4323	Fig. 00, 3.3 mm
F	40-4324	Fig. 0, 3.7 mm
F	40-4325	Fig. 1, 4.3 mm
F	40-4326	Fig. 2, 4.8 mm
F	40-4327	Fig. 3, 5.6 mm
F	40-4328	Fig. 4, 6.1 mm
F	40-4329	Fig. 5, 6.7 mm
F	40-4330	Fig. 6, 8.7 mm



## Cobb

Length 270 mm,  
straight

Fig.	Art.-No.	Description
A	40-9030	Fig.00, 3.25 mm
A	40-9031	Fig.0, 4.0 mm
A	40-9032	Fig.1, 5.0 mm
A	40-9033	Fig.2, 6.0 mm
A	40-9034	Fig.3, 7.5 mm
A	40-9035	Fig.4, 9.0 mm
A	40-9036	Fig.5, 11.5 mm
A	40-9037	Fig.6, 13.0 mm

forward angled

Fig.	Art.-No.	Description
B	40-9040	Fig.00, 3.25 mm
B	40-9041	Fig.0, 4.0 mm
B	40-9042	Fig.1, 5.0 mm
B	40-9043	Fig.2, 6.0 mm
B	40-9044	Fig.3, 7.5 mm
B	40-9045	Fig.4, 9.0 mm
B	40-9046	Fig.5, 11.5 mm
B	40-9047	Fig.6, 13.0 mm

reverse angled

Fig.	Art.-No.	Description
C	40-9050	Fig.00, 3.25 mm
C	40-9051	Fig.0, 4.0 mm
C	40-9052	Fig.1, 5.0 mm
C	40-9053	Fig.2, 6.0 mm
C	40-9054	Fig.3, 7.5 mm
C	40-9055	Fig.4, 9.0 mm
C	40-9056	Fig.5, 11.5 mm
C	40-9057	Fig.6, 13.0 mm





## Key

Length 190 mm

Fig.	Art.-No.	Width mm
D	40-8510	6
D	40-8512	12
D	40-8514	19
D	40-8516	25

## Langenbeck

Length 200 mm

Fig.	Art.-No.	Width mm
E	40-8280	8
F	40-8285	18

## Cushing

Length 190 mm,  
Little Joker

Fig.	Art.-No.	Width mm
G	40-8281	6



## Cushing

Length 190 mm

Fig.	Art.-No.	Width mm
A	40-8290	15
B	40-8291	15

## Raspatory

PPSU handle,  
Length 190 mm

Fig.	Art.-No.	Width mm
C	40-8613	6

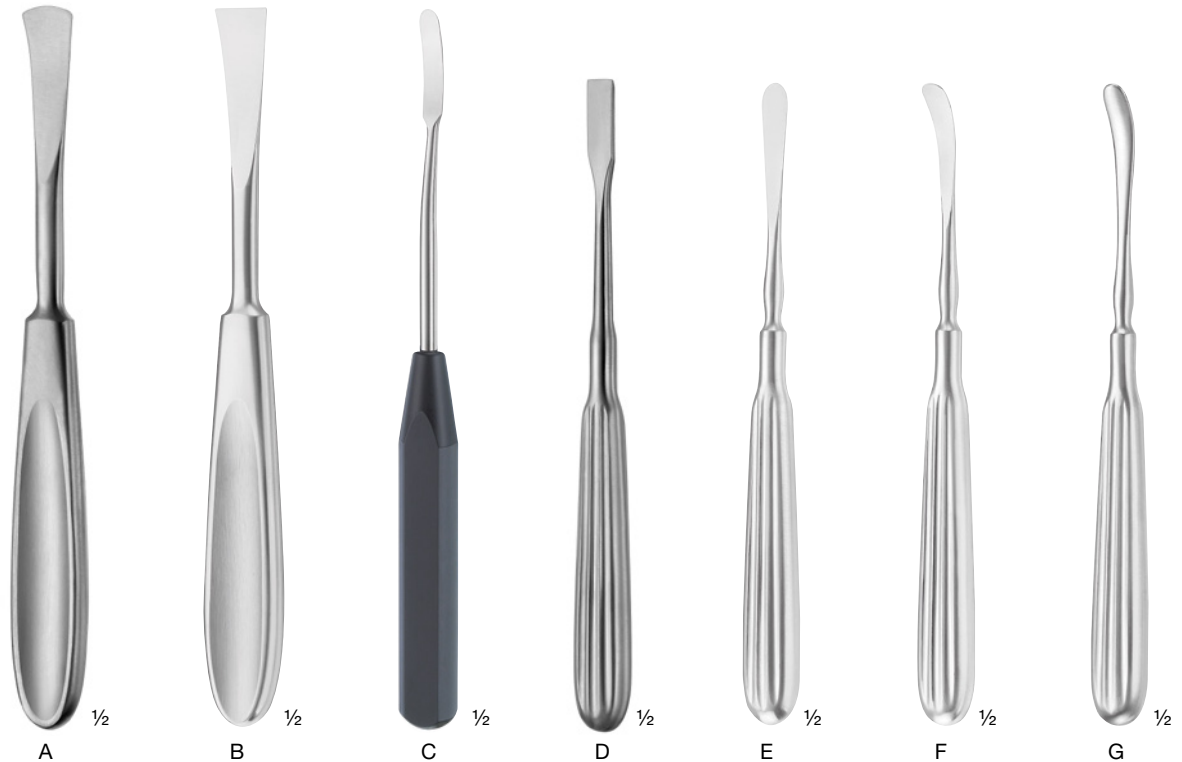
## Adson

Length 170 mm

Fig.	Art.-No.	Width mm
D	40-8390	8
E	40-8392	7
F	40-8393	7

blunt

Fig.	Art.-No.	Width mm
G	40-8391	7

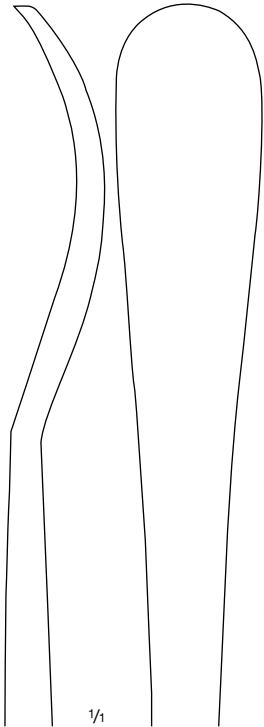






H

1/3

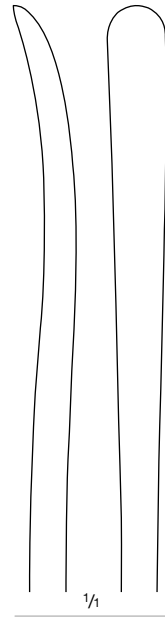


1/4



I

1/3

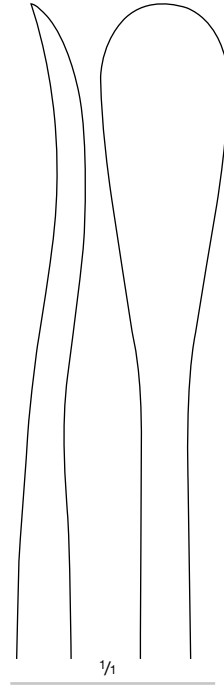


1/4



J

1/3



1/4



K

1/3

## Cobb

### Elevator

Length 290 mm

Fig.	Art.-No.	Width mm
H	41-9001	8
H	41-9003	10
H	41-9005	13
H	41-9006	19
H	41-9007	25
H	41-9008	32

## Raspatory

PPSU handle,  
Length 275 mm

Fig.	Art.-No.	Width mm
I	40-8620	20

PPSU handle,  
Length 330 mm

Fig.	Art.-No.	Width mm
J	40-8621	8
K	40-8622	17



## Cobb

### Gouges

Length 280 mm

Fig.	Art.-No.	Width mm
A	40-8070	7
B	40-8071	7
C	40-8072	7
D	40-8073	7

## Zielke

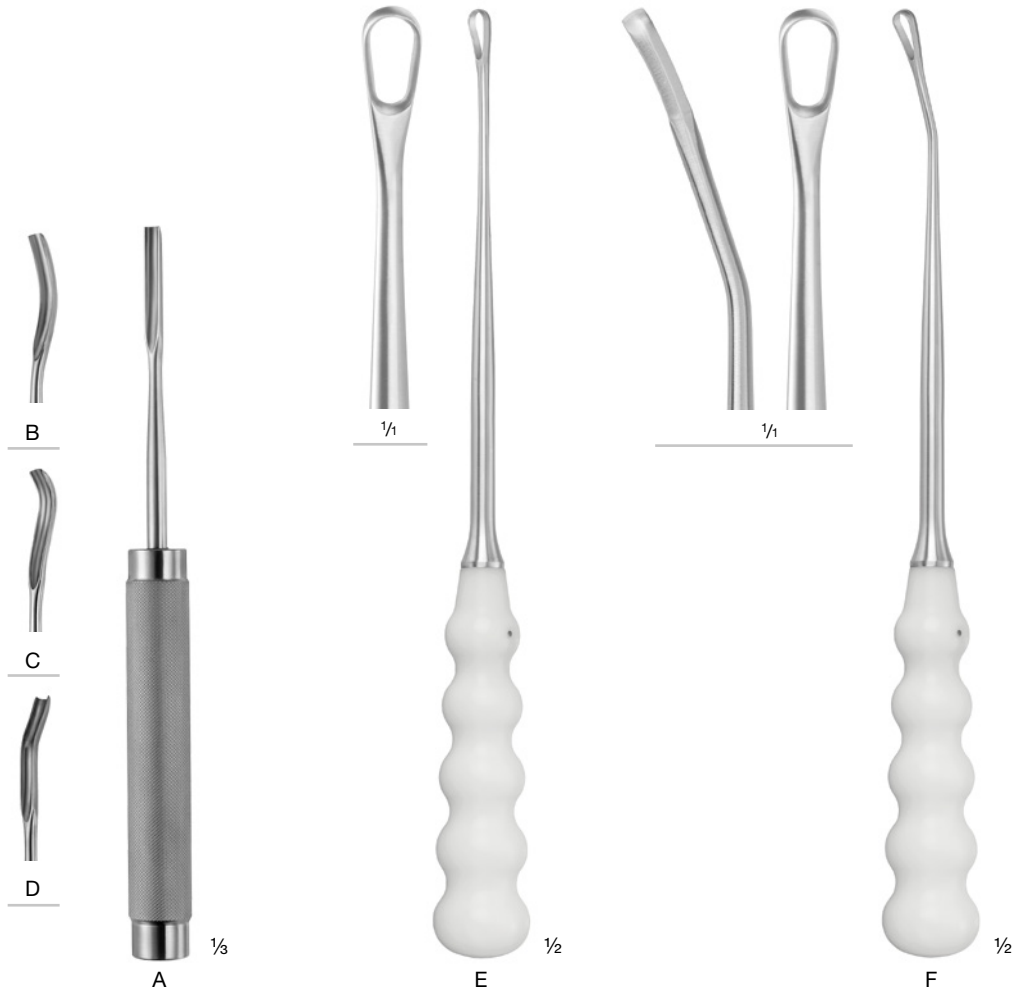
### Curette

white PPSU handle,  
both sides sharp,  
straight

Fig.	Art.-No.	Length mm	Width mm
E	40-7516.08GD	210	8
E	40-7516.11GD	210	11
E	40-7517.08GD	250	8
E	40-7517.11GD	250	11
E	40-7519.08GD	350	8
E	40-7519.11GD	350	11

angled 45°

Fig.	Art.-No.	Length mm	Width mm
F	40-7517.08	250	8
F	40-7517.11	250	11
F	40-7518.08	300	8
F	40-7518.11	300	11
F	40-7519.08	350	8
F	40-7519.11	350	11





### Smith-Peterson

Length 200 mm,  
straight

Fig.	Art.-No.	Width mm
G	40-8080	6
G	40-8081	9
G	40-8082	13
G	40-8083	16
G	40-8084	19
G	40-8085	25
G	40-8086	32

curved

Fig.	Art.-No.	Width mm
H	40-8090	6
H	40-8091	9
H	40-8092	13
H	40-8093	16
H	40-8094	19
H	40-8095	25
H	40-8096	32



### Schlegel

black PPSU handle,  
Length 330 mm

Fig.	Art.-No.	Width mm
I	40-8458.15	15
I	40-8458.20	20

### Mini-Lexer

black PPSU handle,  
Length 180 mm

Fig.	Art.-No.	Width mm
J	40-8495	4
J	40-8496	6
J	40-8497	8
J	40-8498	10
J	40-8499	12

### Lexer

black PPSU handle,  
Length 220 mm

Fig.	Art.-No.	Width mm
K	40-8459	5
K	40-8460	7
K	40-8461	10
K	40-8462	15
K	40-8463	20
K	40-8464	25
K	40-8465	30



## Lexer

black PPSU handle,  
Length 220 mm

Fig.	Art.-No.	Width mm
A	40-8449.04	4
A	40-8449	5
A	40-8449.06	6
A	40-8450	7
A	40-8451	10
A	40-8452	15
A	40-8453	20
A	40-8454	25
A	40-8455	30



## Mini-Lexer

black PPSU handle,  
Length 180 mm

Fig.	Art.-No.	Width mm
B	40-8490	4
B	40-8491	6
B	40-8492	8
B	40-8493	10
B	40-8494	12

## Lexer

black PPSU handle

Fig.	Art.-No.	Length mm	Width mm
C	40-8480.04	260	4
C	40-8449.43	430	5
C	40-8480.06	260	6
C	40-8480.07	260	7
C	40-8451.31	310	10
C	40-8451.37	350	10
C	40-8451.43	430	10
C	40-8452.31	310	15
C	40-8452.37	350	15
C	40-8454.31	310	25
C	40-8454.37	350	25





D

1/2



E

1/2

## Lambotte

### Osteotome

Length 245 mm,  
straight

Fig.	Art.-No.	Width mm
D	40-8150	4
D	40-8151	6
D	40-8152	8
D	40-8153	10
D	40-8154	13
D	40-8155	16
D	40-8156	18
D	40-8157	20
D	40-8158	25
D	40-8159	30
D	40-8160	38
D	40-8161	44
D	40-8162	50

curved

Fig.	Art.-No.	Width mm
E	40-8170	4
E	40-8171	8
E	40-8172	10
E	40-8173	13
E	40-8174	16
E	40-8175	18
E	40-8176	20
E	40-8178	25
E	40-8179	30
E	40-8180	38



F

1/2



G

1/2

## Cottle

Chisel flat,  
Length 185 mm

Fig.	Art.-No.	Width mm
F	40-8220	4
F	40-8221	7
F	40-8222	9
F	40-8223	12

## Mini-Lambotte

### Osteotome

Length 125 mm,  
straight

Fig.	Art.-No.	Width mm
G	40-8420	2
G	40-8421	3
G	40-8422	4
G	40-8423	6
G	40-8424	8
G	40-8425	10
G	40-8426	12
G	40-8427	15

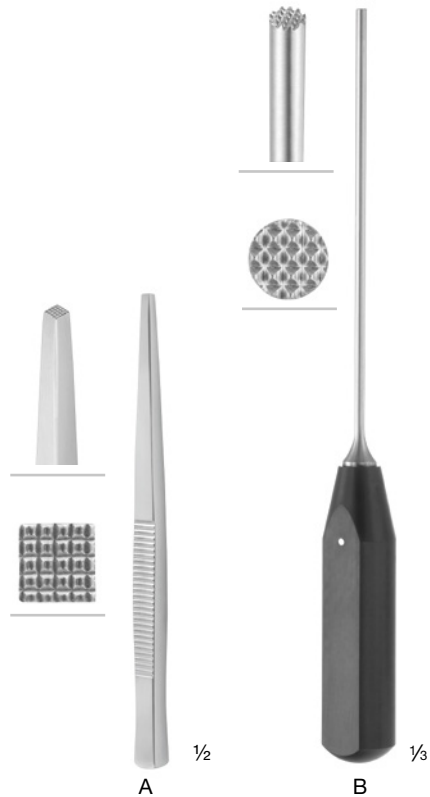


## Passow

Tampers

Length 120 mm

Fig.	Art.-No.	Width mm
A	40-9901	2.5
A	40-9902	3.5



## Caspar-type

Tampers

Length 200 mm

Fig.	Art.-No.	Ø mm
B	40-9903	3
B	40-9904	5
B	40-9905	8

Tampers

Length 300 mm

Fig.	Art.-No.	Ø mm
B	40-9913.04	4
B	40-9913.07	7

## Tampers

Length 200 mm

Fig.	Art.-No.	Ø mm
C	40-9910	12
C	40-9911	14
C	40-9912	16





## Mallett

black PPSU handle,  
Length 245 mm

Fig.	Art.-No.	Description
D	40-8941	with interchangeable plastic discs Ø 30 mm, 200 g
D	40-8941.KB	interchangeable plastic discs Ø 30 mm, 2 pieces

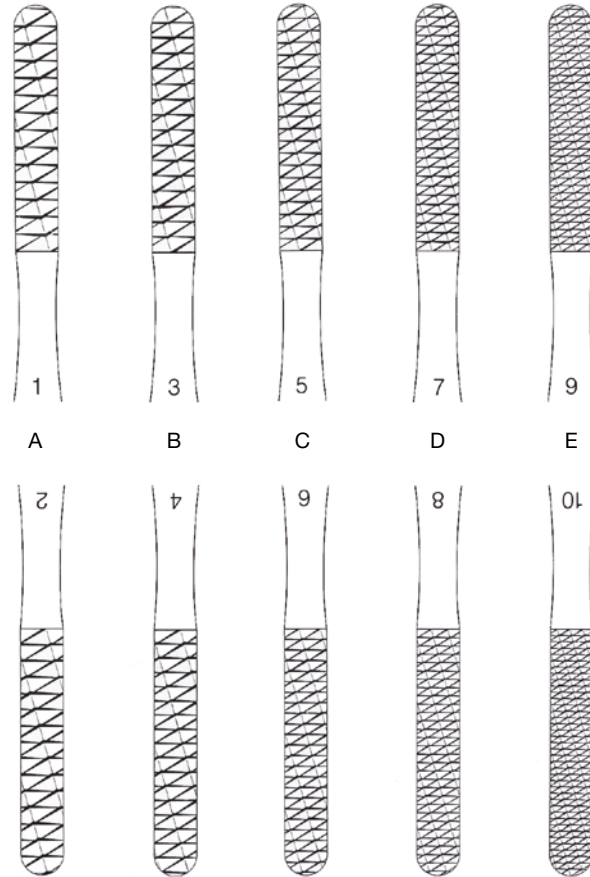
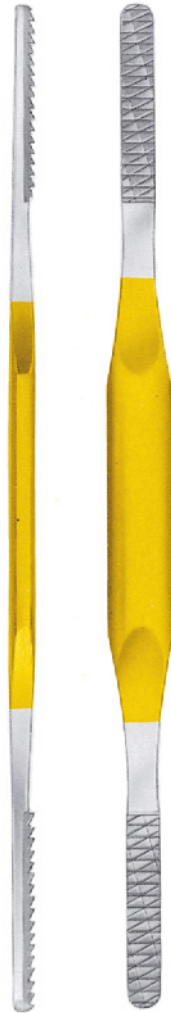
## Hajek

Fig.	Art.-No.	Length mm	Ø mm	Weight g
E	40-8915	215	27	140

## Cottle

standard

Fig.	Art.-No.	Length mm	Ø mm	Weight g
F	40-8910	185	30	340



## Rees

Tungsten Carbide

Length 200 mm

Fig.	Art.-No.
A	14-1010
B	14-1015
C	14-1020
D	14-1025
E	14-1030



# CRAFTSMANSHIP 4.0

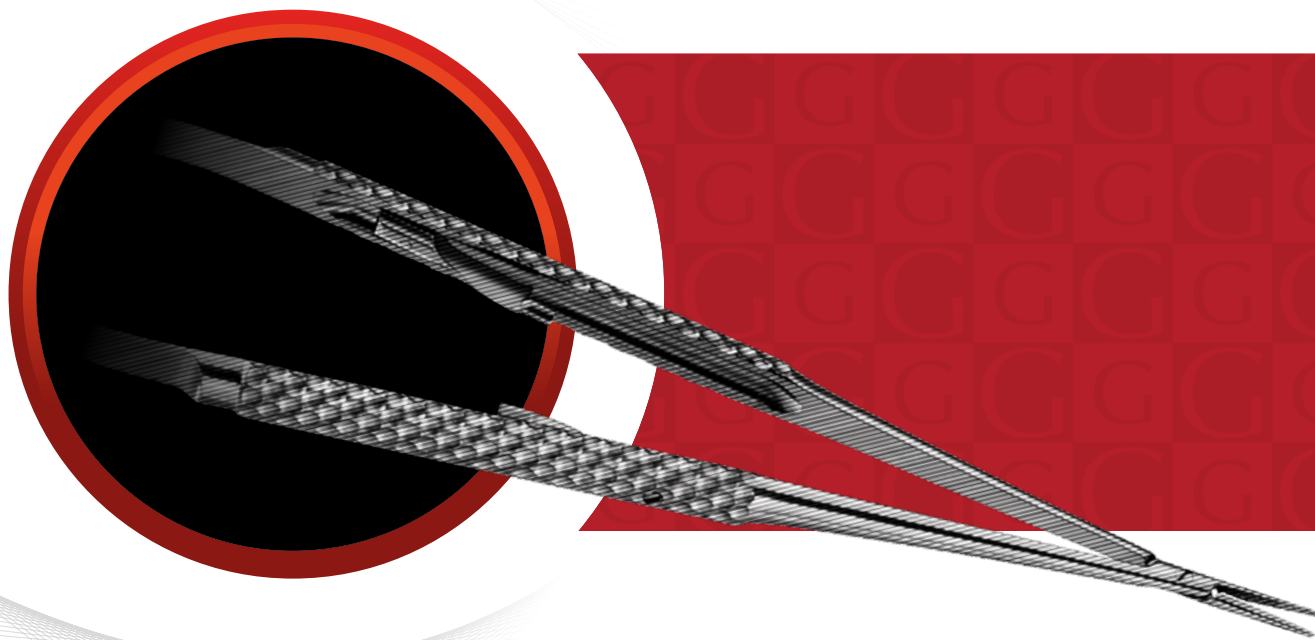
## **The difference between something good and something great is attention to detail.**

The combination of experience, tradition and craftsmanship, with the advanced possibilities of modern CNC-controlled production technology provides for the manufacturing of surgical instruments of the highest technical standard. Only this interaction of traditional workmanship skills with high precision machinery, as well as the use of the best raw materials, can ensure a perfect function and performance of our products for many years of use. The manufacturing of surgical instruments at the highest quality level is the scope of all

employees of our company. Therefore, we can ensure that only the finest surgical instruments with the highest quality standard will leave our facility.

A lean organization provides for quick decision-making and rapid development and implementation of ideas and measures. The continuous optimization of all processes is the responsibility and daily challenge that helps keep each one of our team members motivated to provide the very best.

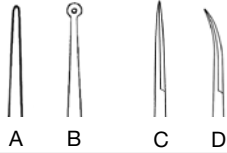






**Microsurgical Instruments**





## Micro Forceps

Fig.	Art.-No.	Length mm	Jaw mm	Description
A	10-3390	230	0.8	
B	10-3392	230	0.5×1.0	Ring Tip
A	<a href="#">10-4390</a>	230	0.8	
B	<a href="#">10-4392</a>	230	0.5×1.0	Ring Tip

## Scissors

Fig.	Art.-No.	Length mm
C	03-1400	210
D	03-1401	210
C	03-1410	230
D	03-1411	230
C	<a href="#">03-4100</a>	210
D	<a href="#">03-4101</a>	210
C	<a href="#">03-4105</a>	230
D	<a href="#">03-4106</a>	230



## Needle Holders

with ratchet

Fig.	Art.-No.	Length mm	Jaw mm
E	03-0400	210	0.8
F	03-0401	210	0.8
E	03-0410	230	0.8
F	03-0411	230	0.8
E	<a href="#">03-4400</a>	210	0.8
F	<a href="#">03-4401</a>	210	0.8
E	<a href="#">03-4410</a>	230	0.8
F	<a href="#">03-4411</a>	230	0.8

without ratchet

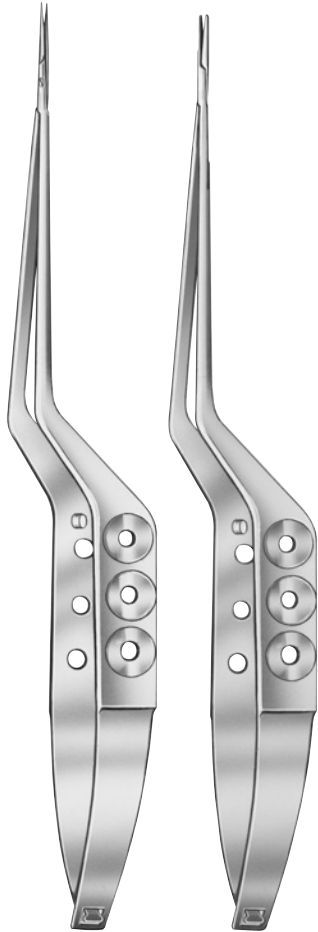
Fig.	Art.-No.	Length mm	Jaw mm
E	03-0402	210	0.8
F	03-0403	210	0.8
E	03-0412	230	0.8
F	03-0413	230	0.8
E	<a href="#">03-4402</a>	210	0.8
F	<a href="#">03-4403</a>	210	0.8
E	<a href="#">03-4412</a>	230	0.8
F	<a href="#">03-4413</a>	230	0.8



Micro Forceps

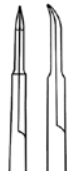
Scissors

Needle Holders



Scissors

Needle Holders



G H

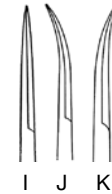
## Yasargil-type-Vannas

### Scissors

Fig.	Art.-No.	Length mm
G	41-4120	220
H	41-4121	220

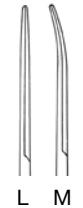
## Yasargil-type

### Scissors



I J K

Fig.	Art.-No.	Length mm	Description
I	41-4100	165	
J	41-4101	165	
I	41-4105	200	
J	41-4106	200	
K	41-4107	200	reverse
I	41-4115	220	
J	41-4116	220	
I	41-4125	245	
J	41-4126	245	
I	41-4114	225	toothed blade



L M

### Dissection Scissors

Fig.	Art.-No.	Length mm
L	41-4110	200
M	41-4111	200
L	41-4130	220
M	41-4131	220

### Needle Holders

Fig.	Art.-No.	Length mm	Jaw mm
O	41-2120	165	0.8
N	41-2111	200	0.8
O	41-2121	200	0.8
N	41-2112	220	0.8
O	41-2122	220	0.8
O	41-2123	245	0.8



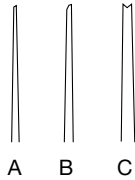
N O



## Bayonet Micro Tissue Forceps

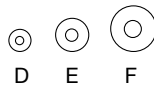
### Yasargil-type

Fig.	Art.-No.	Length mm	Description
A	41-3100	160	sharp
B	41-3101	160	blunt
A	41-3103	180	sharp
B	41-3104	180	blunt
C	41-3105	180	blunt, 1 x 2 teeth
A	41-3106	200	sharp
B	41-3107	200	blunt
A	41-3110	220	sharp
B	41-3111	220	blunt
A	41-3113	240	sharp
B	41-3114	240	blunt
C	41-3115	240	blunt, 1 x 2 teeth



### Spoon-shaped jaws

Fig.	Art.-No.	Length mm	Jaw Ø mm
D	41-3120	220	3
E	41-3121	220	5
D	41-3130	240	3
E	41-3131	240	5
F	41-3122	240	7



### Flat jaws, serrated

Fig.	Art.-No.	Length mm	Jaw Ø mm
G	41-3125	220	3
H	41-3126	220	5



Yasargil-type

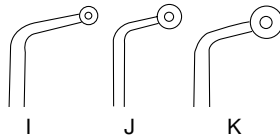
Spoon-shaped jaws, serrated

Flat jaws, serrated



forward

reverse



I

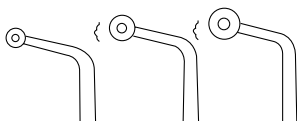
J

K

## Yasargil-type

Spoon-shaped jaws, forward

Fig.	Art.-No.	Length mm	Jaw Ø mm
I	41-3140	230	3
J	41-3141	230	4
K	41-3142	230	5



L

M

N

Spoon-shaped jaws, reverse

Fig.	Art.-No.	Length mm	Jaw Ø mm
L	41-3145	230	3
M	41-3146	230	4
N	41-3147	230	5



O

P

## Heifetz

Curette-jaws, serrated

Fig.	Art.-No.	Length mm	Jaw Ø mm
O	41-3135	220	3
P	41-3136	220	5



rotatable shaft with  
flushing channel



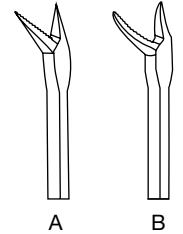
## Micro Needle Holders

Standard Length 260 mm, Working Length 120 mm,  
Sapphire™, single action, straight

Fig.	Art.-No.	Jaw mm
A	41-4400	◊ 0.5
A	41-4402	◊ 1

curved

Fig.	Art.-No.	Jaw mm
B	41-4401	◊ 0.5
B	41-4403	◊ 1



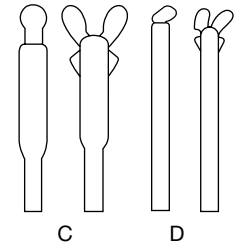
## Micro cupped Forceps

double action, straight

Fig.	Art.-No.	Jaw mm
C	41-4410	2
C	41-4414	4

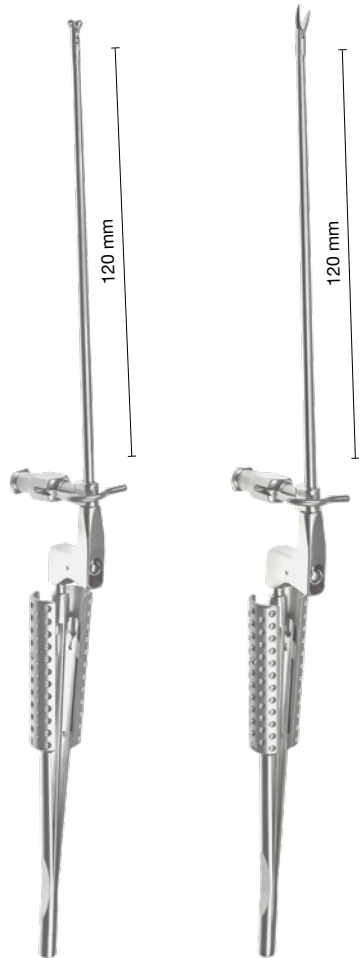
60° angled

Fig.	Art.-No.	Jaw mm
D	41-4411	2

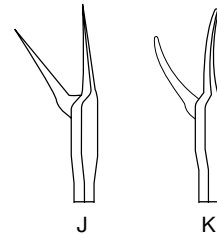
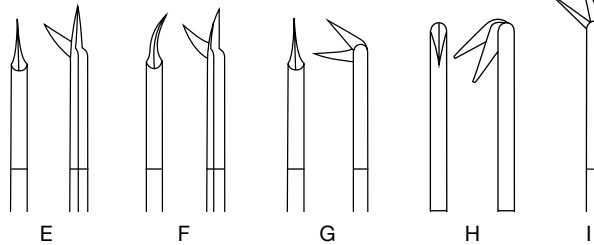


For 90 mm Working Length please add "S" behind article number. Additional working lengths on request.





rotatable shaft with  
flushing channel



## Micro Scissors

Standard Length 260 mm, Working Length 120 mm,  
single action, straight

Fig.	Art.-No.	Description
E	41-4420	sharp/sharp
E	41-4422	blunt/blunt

curved

Fig.	Art.-No.	Description
F	41-4421	sharp/sharp
F	41-4423	blunt/blunt

for ligatures

Fig.	Art.-No.	Description
F	41-4433	blunt/blunt, serrated tip coated

25° angled

Fig.	Art.-No.	Description
I	41-4416	sharp/sharp

45° angled

Fig.	Art.-No.	Description
G	41-4424	blunt/blunt
G	41-4426	sharp/sharp

125° angled

Fig.	Art.-No.	Description
H	41-4415	sharp/sharp

## Micro Forceps

single action, without ratchet, straight

Fig.	Art.-No.	Jaw mm
J	41-4430	0.5

curved

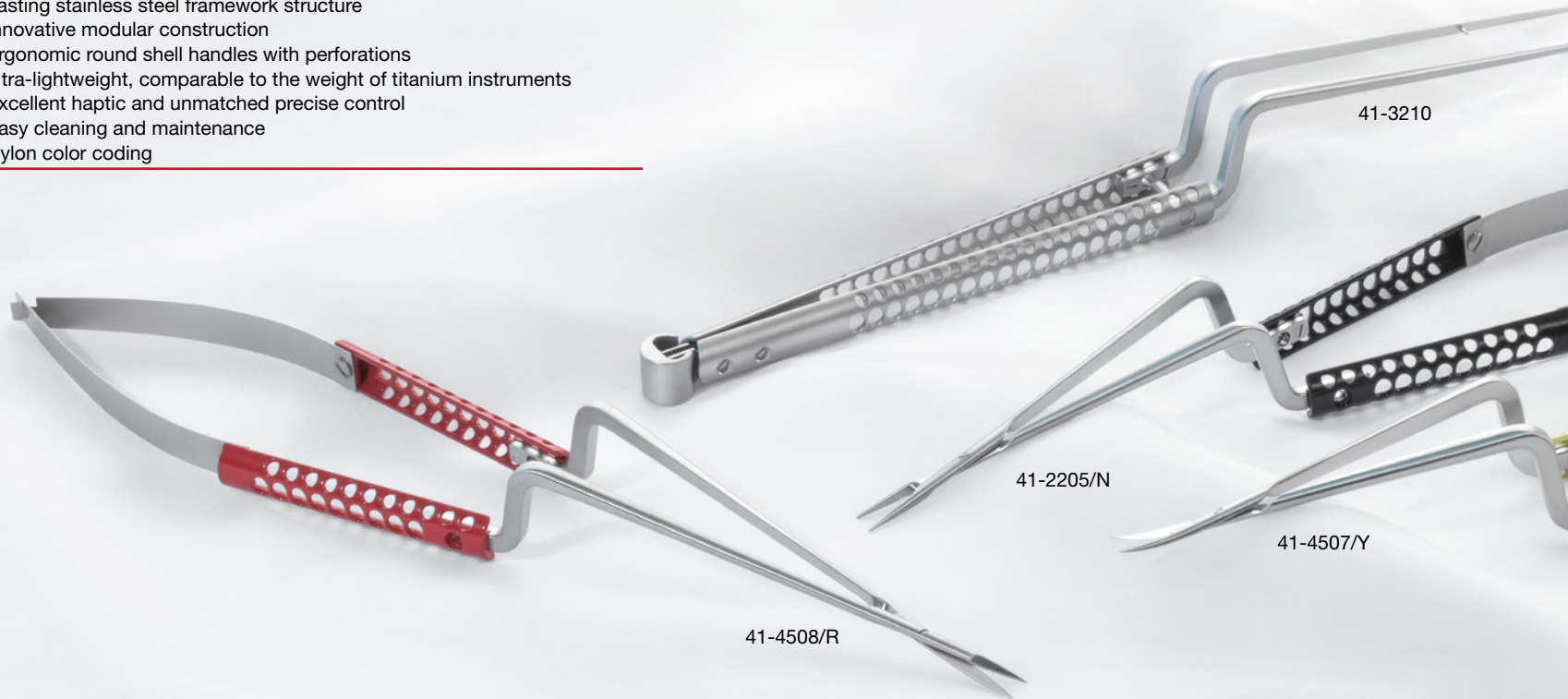
Fig.	Art.-No.	Jaw mm
K	41-4431	0.5



## Structurae™

### Ultra-lightweight Instruments for extremely delicate surgery.

- Totally new look and feel
- Lasting stainless steel framework structure
- Innovative modular construction
- Ergonomic round shell handles with perforations
- ultra-lightweight, comparable to the weight of titanium instruments
- Excellent haptic and unmatched precise control
- Easy cleaning and maintenance
- Nylon color coding



**Nylon color coding:**

- Black handle XX-XXXX/**N**
- Blue handle XX-XXXX/**B**
- Lilac handle XX-XXXX/**P**
- Red handle XX-XXXX/**R**
- White handle XX-XXXX/**W**
- Yellow handle XX-XXXX/**Y**
- Black + White Special Edition  
XX-XXXX/WK
- German Colors Special Edition  
XX-XXXX/RKG



**Micro Tissue Forceps**

ultra-lightweight, straight

Art.-No.	Length mm	Tip mm
41-3208	200	0,8
41-3209	200	0,4
<b>41-3210</b>	220	0,8
41-3211	220	0,4
41-3215	240	0,8
41-3216	240	0,4

**Tumour Grasping Forceps**

ultra-lightweight, straight

Art.-No.	Length mm	Tip mm
41-3228	210	2,5
41-3229	210	3,5
41-3230	240	2,5
41-3231	240	3,5

ultra-lightweight, serrated, straight

Art.-No.	Length mm	Tip mm
41-3240	210	2,5
41-3241	210	3,5
41-3245	240	2,5
41-3246	240	3,5

**Micro-Needle Holder**

ultra-lightweight, without ratchet, Sapphire™, straight

Art.-No.	Length mm	Insert / Tip mm
<b>41-2205</b>	200	◊ 0,8×11
41-2207	220	◊ 0,8×11
41-2210	240	◊ 0,8×11

curved

Art.-No.	Length mm	Insert / Tip mm
41-2206	200	◊ 0,8×11
41-2208	220	◊ 0,8×11
41-2211	240	◊ 0,8×11

**Micro-Scissors**

ultra-lightweight, straight

Art.-No.	Length mm
41-4506	200
<b>41-4508</b>	220
41-4510	240
41-4515	270

ultra-lightweight, curved

Art.-No.	Length mm
<b>41-4507</b>	200
41-4509	220
41-4511	240
41-4516	270



**bold = shown**



03-1133



03-1133/RKG



03-1133/WK



03-1133/R

For Structurae™ Nylon Color Coding please see page 171.  
Add corresponding letter behind catalog reference.



A

B

C



D

E

F

V-neck

## Micro Scissors

Fig.	Art.-No.	Length mm	Angle
A	03-1131	170	25°
B	<b>03-1133</b>	170	45°
C	03-1135	170	60°
D	03-1137	170	90°
E	03-1139	170	125°
F	03-1139V	170	125°



03-3300



03-3191



03-3175

## Micro Needle Holders

ultra-lightweight, Sapphire™, without ratchet

Fig.	Art.-No.	Length mm	Insert / Jaw mm
A	03-3170	180	◊ 0,4 × 11
B	03-3171	180	◊ 0,4 × 11
C	03-3180	180	◊ 0,8 × 11
D	03-3181	180	◊ 0,8 × 11
A	03-3190	205	◊ 0,4 × 11
B	<b>03-3191</b>	205	◊ 0,4 × 11
C	03-3200	205	◊ 0,8 × 11
D	03-3201	205	◊ 0,8 × 11
A	03-3210	230	◊ 0,4 × 11
B	03-3211	230	◊ 0,4 × 11
C	03-3220	230	◊ 0,8 × 11
D	03-3221	230	◊ 0,8 × 11

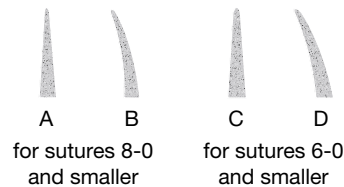
ultra-lightweight, Sapphire™, with ratchet

Fig.	Art.-No.	Length mm	Insert / Jaw mm
A	<b>03-3175</b>	180	◊ 0,4 × 11
B	03-3176	180	◊ 0,4 × 11
C	03-3185	180	◊ 0,8 × 11
D	03-3186	180	◊ 0,8 × 11
A	03-3195	205	◊ 0,4 × 11
B	03-3196	205	◊ 0,4 × 11
C	03-3205	205	◊ 0,8 × 11
D	03-3206	205	◊ 0,8 × 11
A	03-3215	230	◊ 0,4 × 11
B	03-3216	230	◊ 0,4 × 11
C	03-3225	230	◊ 0,8 × 11
D	03-3226	230	◊ 0,8 × 11

## Hepp-Scheidel

ultra-lightweight, Sapphire™, straight

Art.-No.	Length mm	Insert / Tip mm
<b>03-3300</b>	180	◊ 1,2
03-3300.02	180	◊ 0,2
03-3300.04	180	◊ 0,4
03-3300.08	180	◊ 0,8



**bold** = shown



For Structurae™ Nylon Color Coding please see page 171.  
Add corresponding letter behind catalog reference.





### Micro Ring Forceps

ultra-lightweight, Sapphire™, straight

Art.-No.	Length mm	Insert / Jaw mm
10-6620	180	◊ 0,5 × 1
10-6622	210	◊ 0,5 × 1

### Micro Forceps

ultra-lightweight, with DeBakey Jaws, straight

Art.-No.	Length mm	Tip mm
10-6630	180	1
10-6632	180	1,5
10-6640	210	1
10-6642	210	1,5

### Micro Forceps

ultra-lightweight, straight

Art.-No.	Length mm	Tip mm	Teeth	Insert
<b>41-3200</b>	180	0,8		◊
41-3201	180	0,4		◊
41-3202	180	0,2		◊
41-3205	180	0,8	1 × 2	
41-3207	180	1,2	1 × 2	

curved

Art.-No.	Length mm	Tip mm	Teeth
41-3206	180	0,8	1 × 2



bold = shown



41-4500



41-2202

## One Finger-Micro Scissors

ultra-lightweight, straight



Art.-No.	Length mm
<b>41-4500</b>	170
41-4502	200

curved



Art.-No.	Length mm
41-4501	170
41-4503	200

## One Finger-Micro Needle Holders

ultra-lightweight, Sapphire™, straight

Art.-No.	Length mm	Insert
41-2200	170	
<b>41-2202</b>	200	

curved

Art.-No.	Length mm	Insert
41-2201	170	
41-2203	200	



**bold** = shown



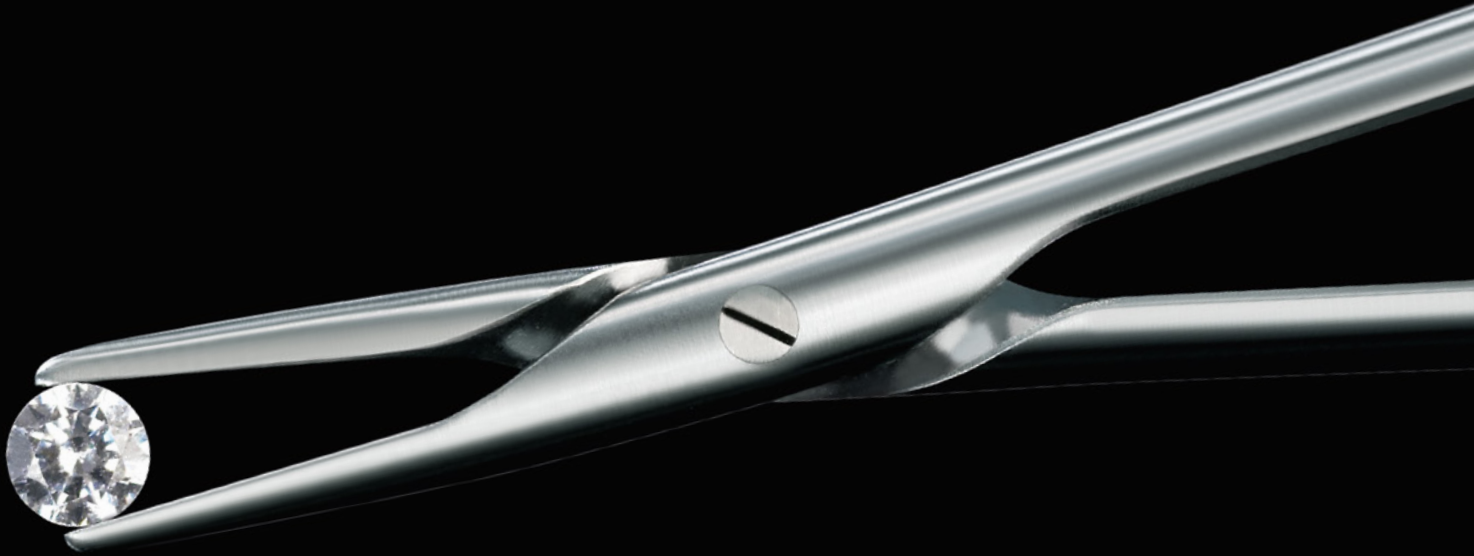
# LIKE GOLD TO YOUR EYES, DIFFERENCE IN YOUR HANDS!

A large selection of micro instruments, scissors, needle holders, clamps, retractors, hooks etc. out of the wide **GEISTER MEDIZINTECHNIK GMBH** product range are now optionally available in the attractive PANDOR™ black&gold design.

Please contact customer service for brochure and all available patterns.

**PANDOR**™  
Instruments





Our micro needle holders are set for grasping needles without rotation. Please be sure to return instruments for periodic routine maintenance to keep them in very best condition. You can determine if a needle holder requires restoration of its Sapphire™ Enhanced Needle Grip Surface by placing a needle at the very tip and then slightly pushing or pulling it or by holding the closed tip up against the light. If the needle easily moves, or if you see light gaps between the tips, the needle holder should be sent for service.

#### Micro Needle Holders

Insert	Tip size	0/0	1/0	2/0	3/0	4/0	5/0	6/0	7/0	8/0	9/0	10/0	11/0
Sapphire™	0.2mm												
Sapphire™	0.4mm											•	•
Sapphire™	0.8mm									•	•	•	•
Sapphire™	1.2mm							•	•	•	•		
TC (M) Micro Pitch 0.20-0.30	1.2mm						•	•	•				

#### Heavy Micro Needle Holders

Sapphire™	1.2mm												
TC (F) Fine Pitch 0.40	1.2mm			•	•	•	•	•					

## Masterpieces

Precision crafted by skilled artisans with the support of the most advanced computer controlled manufacturing technologies, the **GEISTER MEDIZINTECHNIK GMBH** microsurgical instrument range offers you maximum strength and durability, precise control, sensitive tactile feel, lightweight, superior balance and the quality with meticulous attention to the even smallest details that you expect from a **GEISTER MEDIZINTECHNIK GMBH** instrument.

All **GEISTER MEDIZINTECHNIK GMBH** Micro Needle Holders and Forceps - both in stainless steel and titanium - feature our exclusive Sapphire™ enhanced needle grip surface for a firm grasp of needles without rotation and maximum control during suturing or grasping tissue.

Available are patterns with 0.3 or 0.4 mm tip dimensions designed for holding needles size 8-0 and smaller, as well as patterns with 0.8 mm tip for needles size 6-0 and smaller and 1.2 mm for needles size 5-0 and smaller. Featured streamline models with a twisted boxlock effectively prevent snagging of sutures in the boxlock area. Special soft touch models with a new softer ratchet provide for even more precise anastomosis, faster action and response and even better control and feeling.

Titanium instruments are approx. 50% lighter than stainless steel instruments, providing for reduced fatigue during extended operations. They provide excellent balance and feel, at least traumatic and antimagnetic. They are easy to maintain and to sterilize, just in the same manner as stainless steel instruments. For easier identification all **GEISTER MEDIZINTECHNIK GMBH** titanium instruments are anodized in blue color.

Superior in workmanship, quality, and reliability, our fine spring style micro scissors deliver precise, sharp and smooth cuts even on tissue structures. They are handcrafted from the finest surgical grade stainless steel available and completed with an individual hand grind on each cutting edge. You have a choice of round handles, here in particular our Fairgrip™ ultra handle, offering a better tactile feeling, or of flat serrated handles, providing a more controlled grip. Featured nano jaw models come with shorter and even finer blades for unsurpassed precision.



**GEISTER MEDIZINTECHNIK GMBH** micro tissue forceps available with ring-, tying or atraumatic DeBakey Jaws tips are manufactured with round handles to guarantee a secure and firm hold of the instrument in your hand. Guide pins and special textured tips provide for precise and atraumatic tissue handling without slippage or twisting of jaws.



## Fairgrip™ultra Micro – Potts

### Scissors

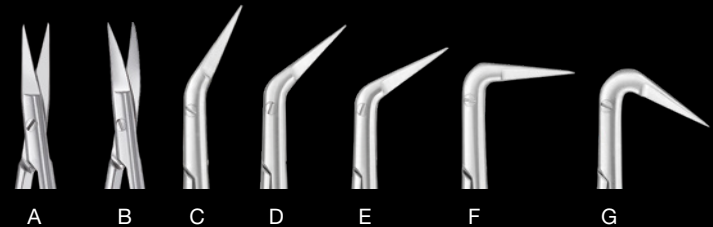
Length 170 mm / 6½ "

Fig.	Art.-No.	↘	Blade Length mm
A	03-0606	-	10
B	03-0608	-	10
C	03-0610	25°	10
D	03-0612	45°	10
E	03-0614	60°	10
F	03-0616	90°	10
G	03-0618	125°	10

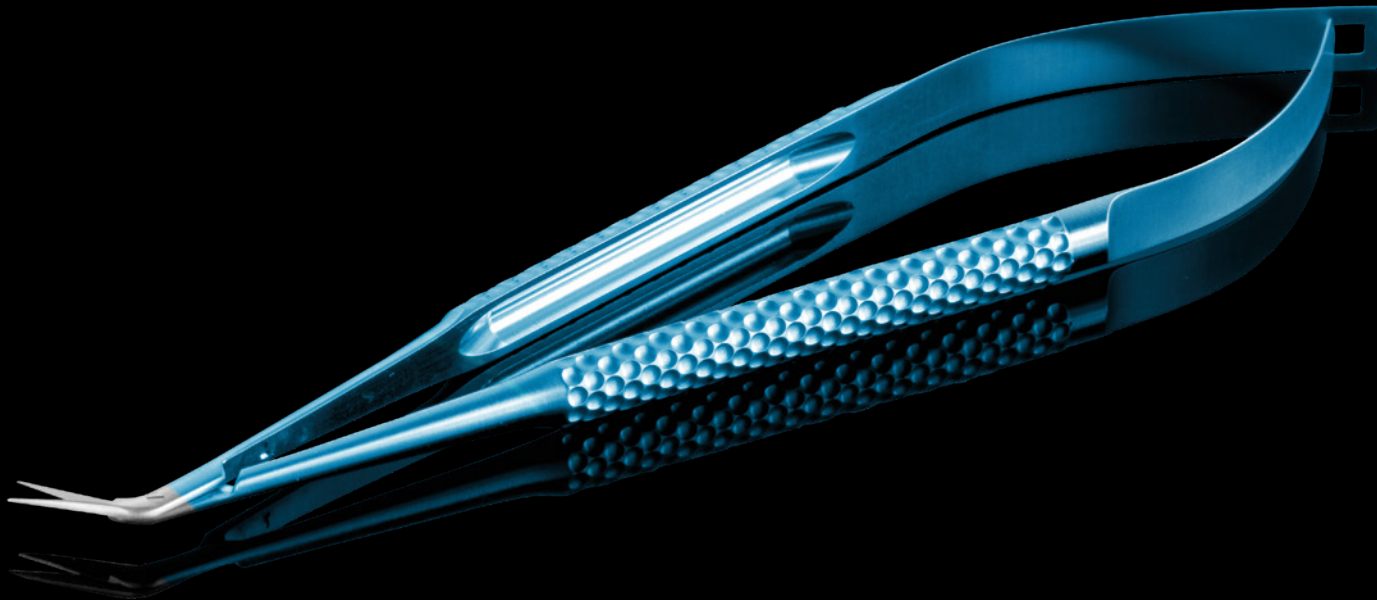
### Scissors Streamline\*

Length 210 mm / 8¼ "

Fig.	Art.-No.	↘	Blade Length mm
A	-	-	-
B	-	-	-
C	03-0620	25°	10
D	03-0621	45°	10
E	03-0622	60°	10
F	03-0623	90°	10
G	03-0624	125°	10







## Fairgrip™ultra Titanium Micro – Potts

Scissors

Length 170 mm / 6½ "

Scissors Streamline\*

Length 210 mm / 8¼ "

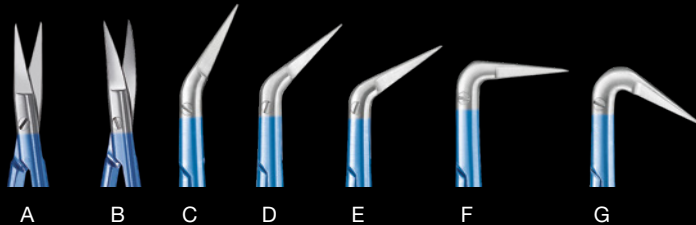


Fig.	Art.-No.	✂	Blade Length mm	Fig.	Art.-No.	✂	Blade Length mm
A	03-0606.TI	-	10	A	-	-	-
B	03-0608.TI	-	10	B	-	-	-
C	03-0610.TI	25°	10	C	03-0620.TI	25°	10
D	03-0612.TI	45°	10	D	03-0621.TI	45°	10
E	03-0614.TI	60°	10	E	03-0622.TI	60°	10
F	03-0616.TI	90°	10	F	03-0623.TI	90°	10
G	03-0618.TI	125°	10	G	03-0624.TI	125°	10



**Fairgrip™ ultra Streamline**  
with ratchet

Length 180 mm / 7 "

Fig.	Art.-No.	Jaw mm
A	03-0650.04	0.4 x 12
B	03-0651.04	0.4 x 12
C	03-0650.08	0.8 x 12
D	03-0651.08	0.8 x 12
E	03-0650	1.2 x 12
F	03-0651	1.2 x 12

Length 210 mm / 8¼ "

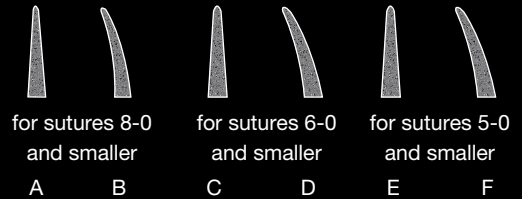
Fig.	Art.-No.	Jaw mm
A	03-0655.04	0.4 x 12
B	03-0656.04	0.4 x 12
C	03-0655.08	0.8 x 12
D	03-0656.08	0.8 x 12
E	03-0655	1.2 x 12
F	03-0656	1.2 x 12

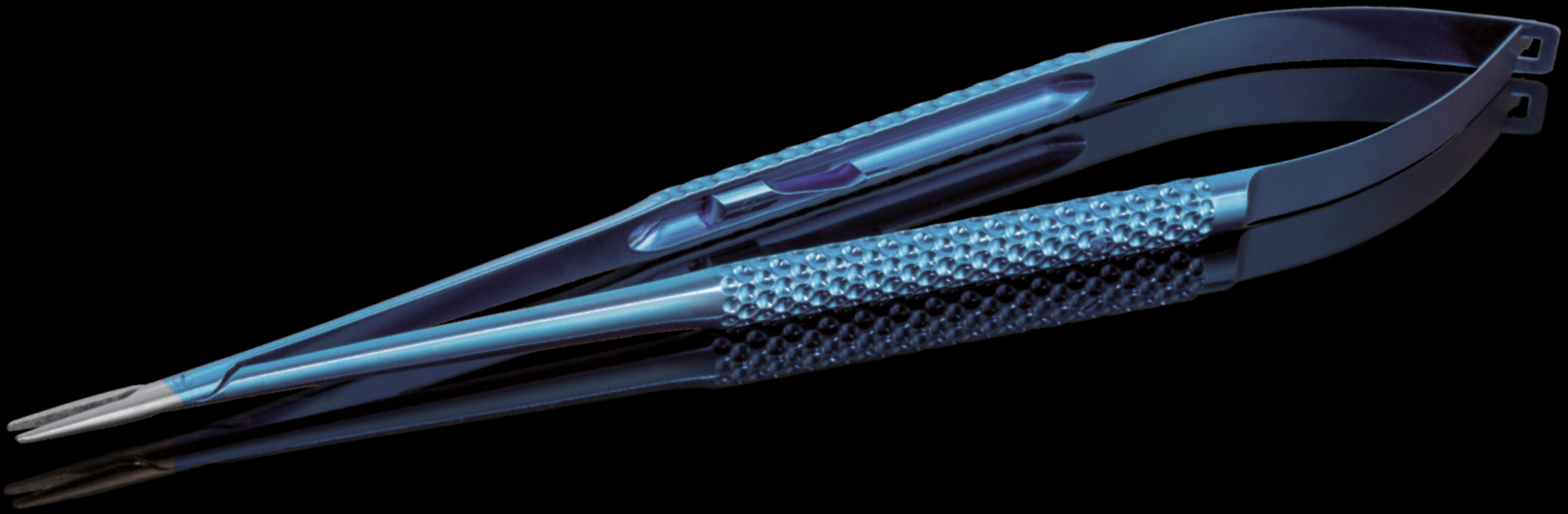
Length 230 mm / 9 "

Fig.	Art.-No.	Jaw mm
A	03-0660.04	0.4 x 12
B	03-0661.04	0.4 x 12
C	03-0660.08	0.8 x 12
D	03-0661.08	0.8 x 12
E	03-0660	1.2 x 12
F	03-0661	1.2 x 12

Length 260 mm / 10¼ "

Fig.	Art.-No.	Jaw mm
A	03-0665.08	0.8 x 12
B	03-0665	1.2 x 12





**Fairgrip™ ultra Titanium Streamline**  
with ratchet

Length 180 mm / 7 "

Length 210 mm / 8¼ "

Length 230 mm / 9 "

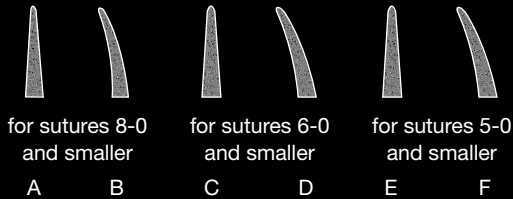


Fig.	Art.-No.	Jaw mm	Fig.	Art.-No.	Jaw mm	Fig.	Art.-No.	Jaw mm
A	03-0650.04TI	◊ 0.4 × 12	A	03-0655.04TI	◊ 0.4 × 12	A	03-0660.04TI	◊ 0.4 × 12
B	03-0651.04TI	◊ 0.4 × 12	B	03-0656.04TI	◊ 0.4 × 12	B	03-0661.04TI	◊ 0.4 × 12
C	03-0650.08TI	◊ 0.8 × 12	C	03-0655.08TI	◊ 0.8 × 12	C	03-0660.08TI	◊ 0.8 × 12
D	03-0651.08TI	◊ 0.8 × 12	D	03-0656.08TI	◊ 0.8 × 12	D	03-0661.08TI	◊ 0.8 × 12
E	03-0650.TI	◊ 1.2 × 12	E	03-0655.TI	◊ 1.2 × 12	E	03-0660.TI	◊ 1.2 × 12
F	03-0651.TI	◊ 1.2 × 12	F	03-0656.TI	◊ 1.2 × 12	F	03-0661.TI	◊ 1.2 × 12





## Fairgrip™ ultra Heavy Streamline with ratchet

Length 190 mm / 7½ "

Fig.	Art.-No.	Jaw mm	Handle
A	03-0680	◆ 2.0 × 18	R10
B	03-0681	◆ 2.0 × 18	R10

Length 230 mm / 9 "

Fig.	Art.-No.	Jaw mm	Handle
A	03-0682	◆ 2.0 × 18	R10
B	03-0683	◆ 2.0 × 18	R10

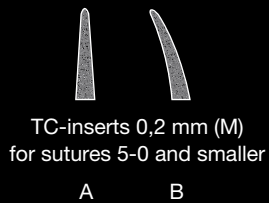
Length 260 mm / 10¼ "

Fig.	Art.-No.	Jaw mm	Handle
A	03-0684	◆ 2.0 × 18	R10
B	03-0685	◆ 2.0 × 18	R10



for sutures 2-0  
and smaller

A B



### Fairgrip™ ultra TC Streamline with ratchet

Length 180 mm / 7 "

Fig.	Art.-No.	Jaw mm
A	24-1140	Ⓜ 1.2 × 12
B	24-1141	Ⓜ 1.2 × 12

Length 210 mm / 8¼ "

Fig.	Art.-No.	Jaw mm
A	24-1150	Ⓜ 1.2 × 12
B	24-1151	Ⓜ 1.2 × 12

Length 260 mm / 10¼ "

Fig.	Art.-No.	Jaw mm
A	24-1160	Ⓜ 1.2 × 12
B	24-1161	Ⓜ 1.2 × 12





Micro Tissue Forceps – Fairgrip™ultra



Also available counterbalanced

**Fairgrip™ ultra Tying Forceps**  
with platform

Length 180 mm / 7 "

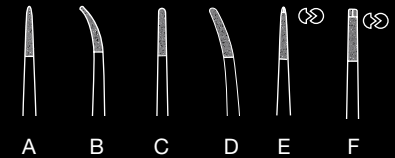
Fig.	Art.-No. ①	Art.-No. ②	Jaw mm	teeth
A	10-6032	10-6332	0.4×7	
B	10-6033	10-6333	0.4×7	
C	10-6030	10-6330	0.8×7	
D	10-6031	10-6331	0.8×7	
E	10-6056		0.4	1×2
F	10-6052		0.8	1×2

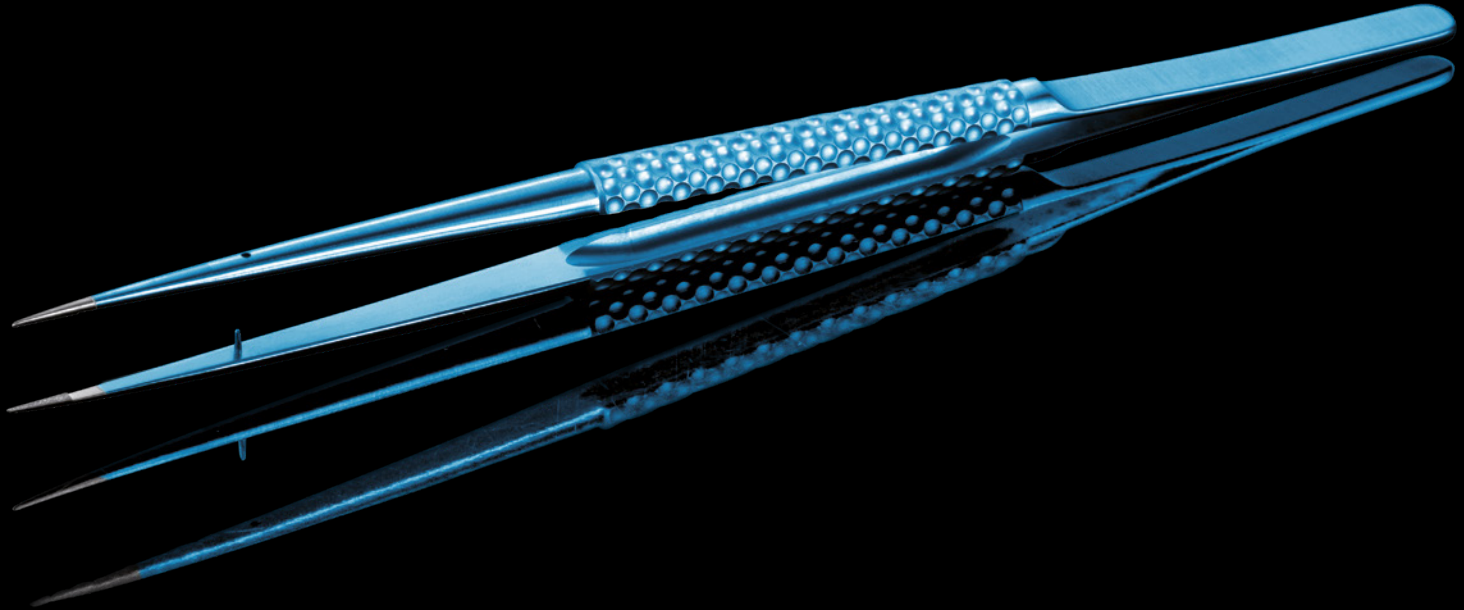
Length 210 mm / 8¼ "

Fig.	Art.-No. ①	Art.-No. ②	Jaw mm	teeth
A	10-6036	10-6336	0.4×7	
B	10-6037	10-6337	0.4×7	
C	10-6034	10-6334	0.8×7	
D	10-6035	10-6335	0.8×7	
E	10-6058		0.4	1×2
F	10-6054		0.8	1×2

Length 230 mm / 9 "

Fig.	Art.-No. ①	Jaw mm
A	10-6047	0.4×7
C	10-6045	0.8×7
Length 260 mm / 10¼ "		
Fig.	Art.-No. ①	Jaw mm
C	10-6048	0.8×7





Fairgrip™ ultra Titanium Tying Forceps with platform

Length 180 mm / 7 "

Length 210 mm / 8¼ "

Length 230 mm / 9 "

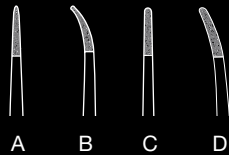


Fig.	Art.-No.	Jaw mm	Fig.	Art.-No.	Jaw mm	Fig.	Art.-No.	Jaw mm
A	10-6032.TI	◊ 0.4 × 7	A	10-6036.TI	◊ 0.4 × 7	A	10-6047.TI	◊ 0.4 × 7
B	10-6033.TI	◊ 0.4 × 7	B	10-6037.TI	◊ 0.4 × 7	B	-	-
C	10-6030.TI	◊ 0.8 × 7	C	10-6034.TI	◊ 0.8 × 7	C	10-6045.TI	◊ 0.8 × 7
D	10-6031.TI	◊ 0.8 × 7	D	10-6035.TI	◊ 0.8 × 7	D	-	-





Micro Tissue Forceps – Fairgrip™ultra



Also available counterbalanced

Fairgrip™ultra Forceps

Ring Tip

Length 180 mm / 7 "

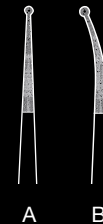
Length 210 mm / 8¼ "

Length 230 mm / 9 "

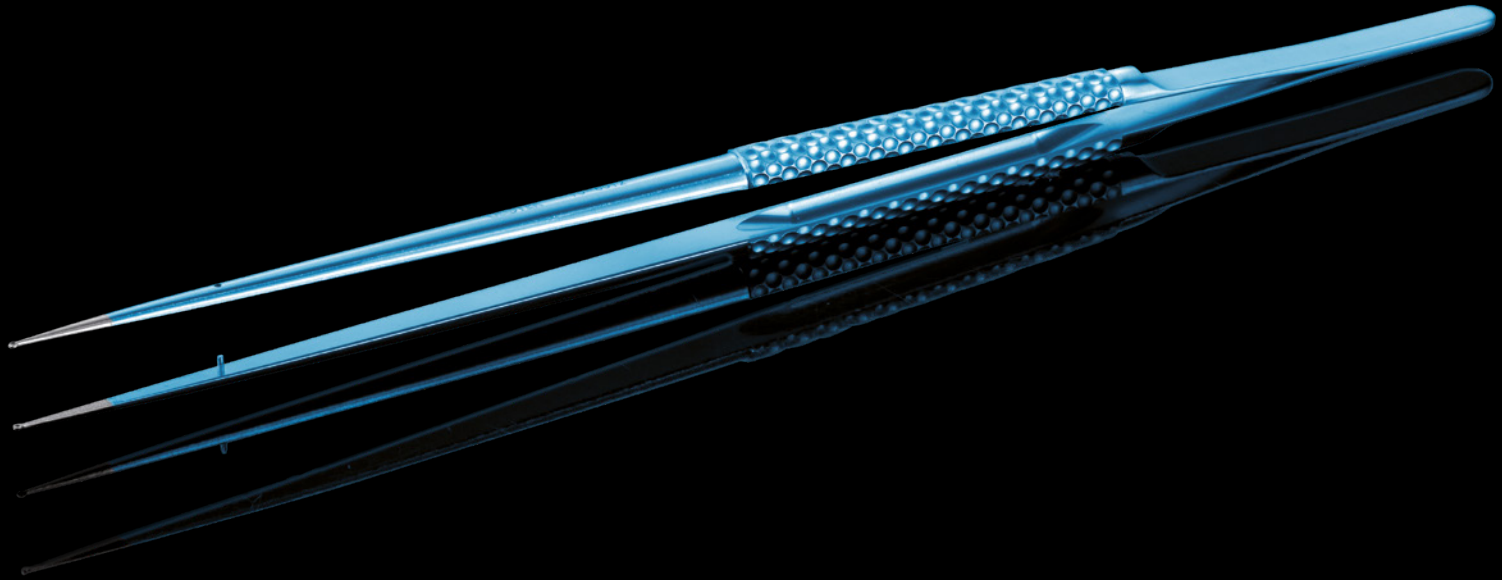
Fig.	Art.-No. ①	Art.-No. ②	Ring Ø mm
A	10-6010	10-6310	0.5 × 1.0
B	10-6011	10-6311	0.5 × 1.0

Fig.	Art.-No. ①	Art.-No. ②	Ring Ø mm
A	10-6012	10-6312	0.5 × 1.0
B	10-6013	10-6313	0.5 × 1.0

Fig.	Art.-No. ①	Art.-No. ②	Ring Ø mm
A	10-6014	10-6314	0.5 × 1.0
B	10-6015	10-6315	0.5 × 1.0







### Fairgrip™ ultra Titanium Forceps

Ring Tip

Length 180 mm / 7 "

Length 210 mm / 8¼ "

Length 230 mm / 9 "

Fig.	Art.-No.	Ring Ø mm
A	10-6010.TI	◊ 0.5 × 1.0
B	10-6011.TI	◊ 0.5 × 1.0

Fig.	Art.-No.	Ring Ø mm
A	10-6012.TI	◊ 0.5 × 1.0
B	10-6013.TI	◊ 0.5 × 1.0

Fig.	Art.-No.	Ring Ø mm
A	10-6014.TI	◊ 0.5 × 1.0
B	10-6015.TI	◊ 0.5 × 1.0





## Fairgrip™ ultra with DeBakey Jaws

Length 180 mm / 7 "

Fig.	Art.-No.	Jaw mm
A	10-6060	1.0

Length 210 mm / 8¼ "

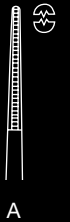
Fig.	Art.-No.	Jaw mm
A	10-6065	1.0

Length 230 mm / 9 "

Fig.	Art.-No.	Jaw mm
A	10-6076	1.0

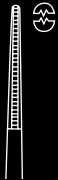
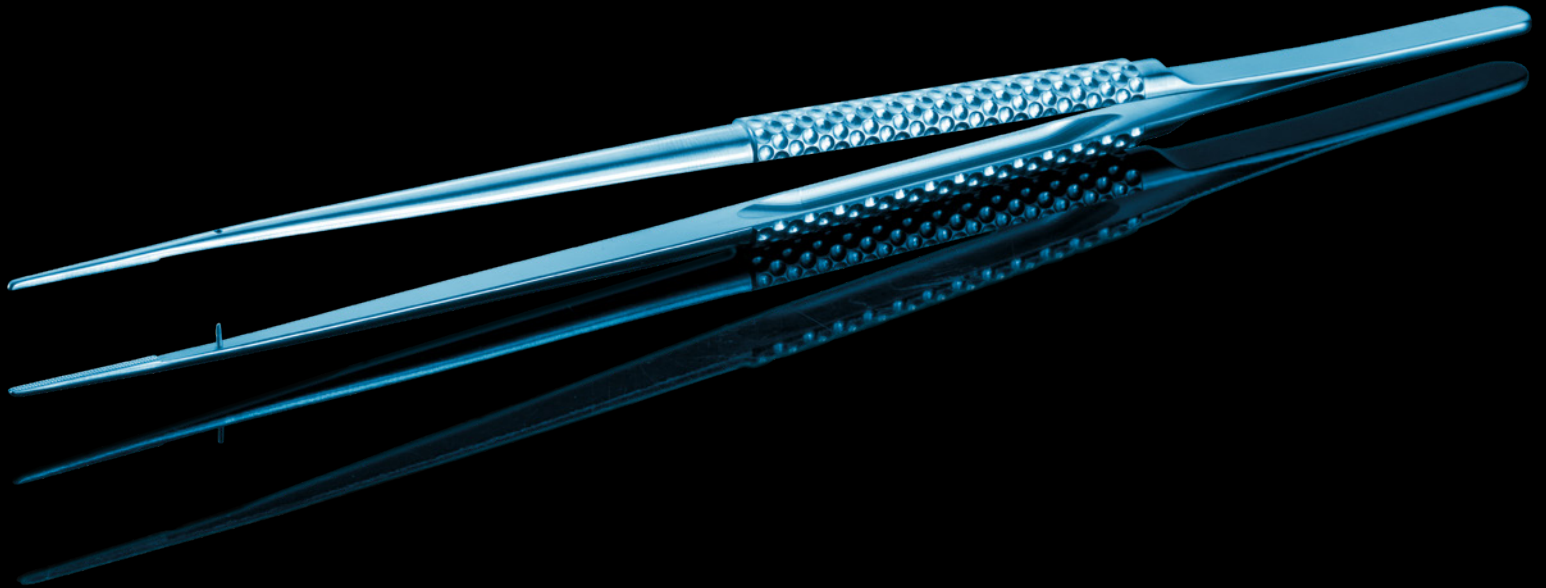
Length 250 mm / 107 "

Fig.	Art.-No.	Jaw mm
A	10-6070	1.0



Micro Tissue Forceps – Fairgrip™ultra

GEISTER



A

## Fairgrip™ultra Titanium

with DeBakey Jaws

Length 180 mm / 7 "

Fig.	Art.-No.	Jaw mm
A	10-6060.TI	1.0

Length 210 mm / 8¼ "

Fig.	Art.-No.	Jaw mm
A	10-6065.TI	1.0

Length 230 mm / 9 "

Fig.	Art.-No.	Jaw mm
A	10-6076.TI	1.0

Length 250 mm / 10 "

Fig.	Art.-No.	Jaw mm
A	10-6070.TI	1.0



## Nicola (Fahlbusch)

Fig.	Art.-No.	Length mm	Description
A	41-8400	165	Fahlbusch Scissors, curved
B	41-8405	165	Nicola Scissors
C	41-8410	165	Yasargil-Nicola-type Grasping Forceps
D	41-8415	165	Nicola Spoon Forceps



## Micro Instruments

with squeeze handle, angled shaft

### Scissors

<b>Description</b>	<b>straight vertical</b>	<b>angled up</b>	<b>curved right</b>
<b>Art.-No.</b>	03-2002	03-2004	03-2008
<b>Length mm</b>	185	185	185

### Spoon

<b>Description</b>	<b>straight</b>	<b>angled up</b>	<b>curved right</b>
<b>Art.-No.</b>	03-2030	03-2031	03-2032
<b>Length mm</b>	185	185	185



# GEISTER®

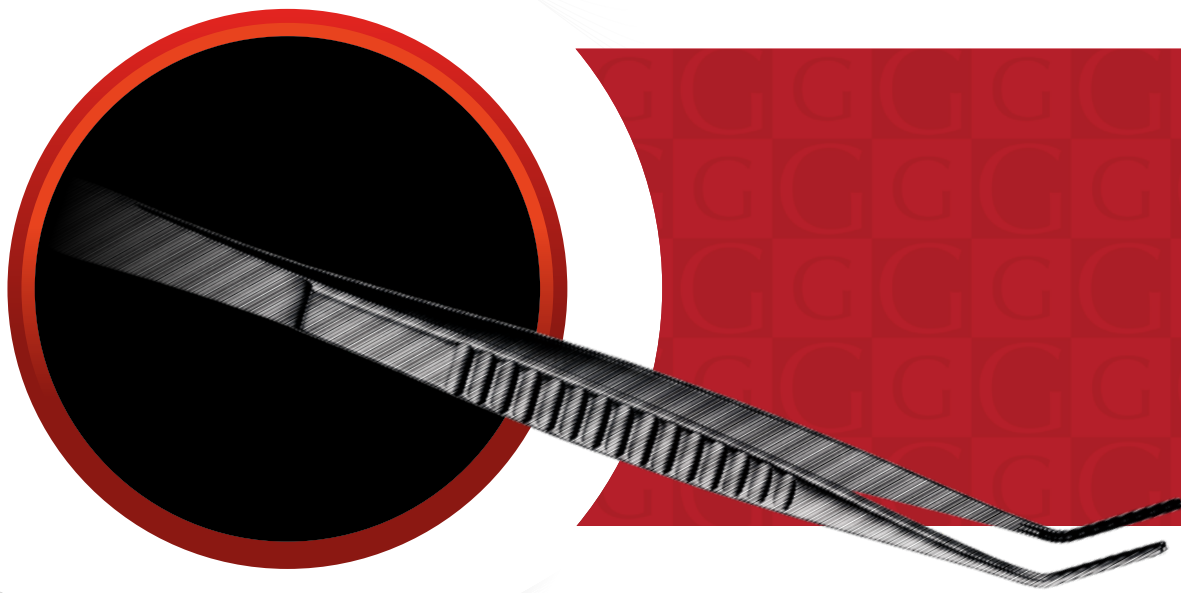


## SERVICE

**As a manufacturer of premium quality surgical products we are committed to give our customers the best possible service and support, also beyond the sale.**

We do more than sell instruments by standard catalog only. We are sensitive to physicians ideas and welcome innovative concepts that challenge our skill sets. We care and provide the most functional and state-of-the-art solutions for individual needs. This, together with direct access to top management levels, maximum responsiveness, quality, service and innovation, makes us a preferred partner for the surgical professional worldwide and keeps us on the cutting edge of the surgical instrument industry.

Apart from manufacturing and supplying surgical instruments and equipment, we also offer the following special services: Instrument repairs (cost estimates provided upon request), instrument maintenance and refurbishing, set arrangements, inventorying of existing instruments or sets, development of special instruments, CAD construction with Solidworks 3D and MegaCAD 2D, prototyping, turnkey projects, consulting, machining of precision parts and components for medicine and industry, OEM manufacturing.





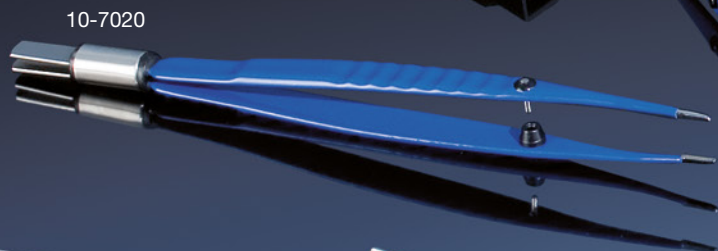
Forceps | Clamps



Bipolar Instruments (TT/HT/NT)



34-9408



10-7020



10-7030.US



10-7030



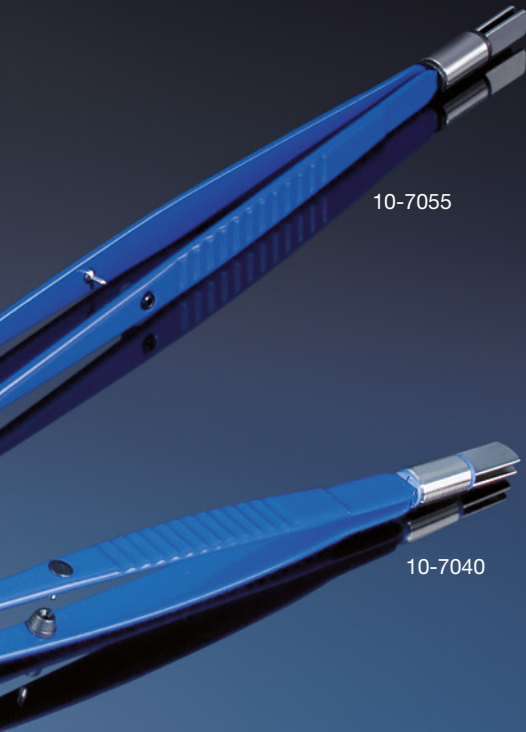
34-9404



10-7034







10-7055

10-7040

## Bipolar Tissue Forceps

with flat Euro-plug, straight tip

Art.-No.	Length mm/"	Tip mm
<b>10-7020</b>	150/6	1.0
10-7021	150/6	2.0
10-7022	150/6	0.3
<b>10-7030</b>	180/7	1.0
10-7031	180/7	2.0
10-7032	180/7	0.3
<b>10-7040</b>	200/8	1.0
10-7041	200/8	2.0
10-7042	200/8	0.3
10-7050	220/8¾	1.0
10-7051	220/8¾	2.0
10-7052	220/8¾	0.3
10-7060	240/9½	1.0
10-7061	240/9½	2.0
10-7062	240/9½	0.3



Euro-plug



US-plug\*

## Bipolar Cable

for ESU-X 500TT and ESU-A 500TT

Art.-No.	Description
34-9404	for Bipolar Forceps with Euro-plug (flat), 3 m
34-9404.US	for Bipolar Forceps with USA-plug (2 pins), 3 m

for ESU-A 400HT, ESU-X 400HT, ESU-X 300NT and ESU-X 200NT

Art.-No.	Description
<b>34-9408</b>	for Bipolar Forceps with Euro-plug (flat), 5 m
34-9408.US	for Bipolar Forceps with USA-plug (2 pins), 5 m

with flat Euro-plug, angled tip

Art.-No.	Length mm/"	Tip mm
10-7024	150/6	1.0
10-7025	150/6	2.0
10-7026	150/6	0.3
10-7034	180/7	1.0
10-7035	180/7	2.0
10-7036	180/7	0.3
10-7044	200/8	1.0
10-7045	200/8	2.0
10-7046	200/8	0.3
10-7054	220/8¾	1.0
<b>10-7055</b>	220/8¾	2.0
10-7056	220/8¾	0.3
10-7064	240/9½	1.0
10-7065	240/9½	2.0
10-7066	240/9½	0.3

\* Most Bipolar Forceps are also available with USA-plug (2 pins) on request. For ordering simply add ".US" behind article number (e.g. 10-7110.US).



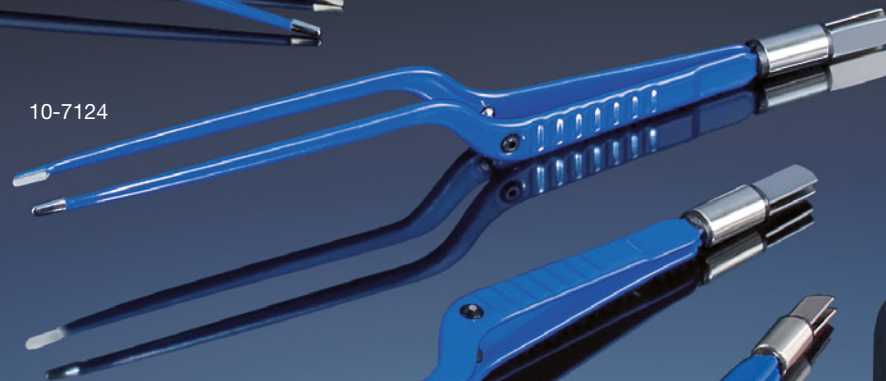
Bipolar Instruments (TT/HT/NT)



10-7134



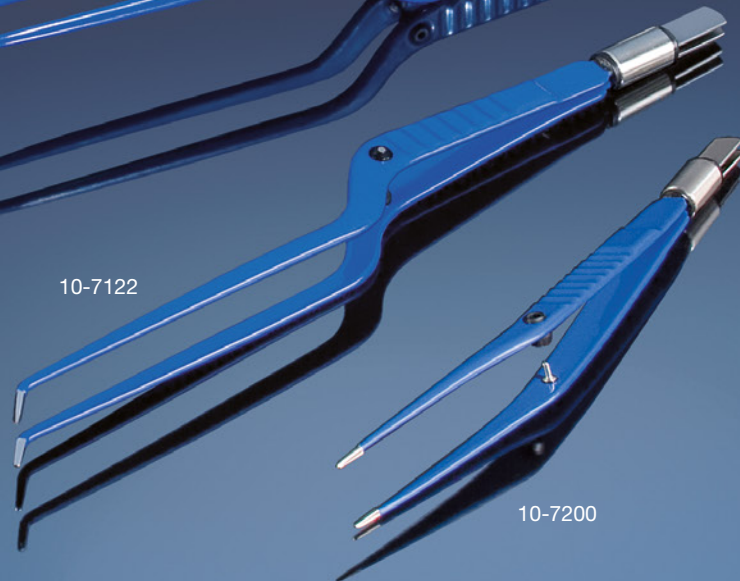
10-7010



10-7124



10-7014



10-7122



10-7200

## Bipolar Instruments (TT/HT/NT)

GEISTER®

10-7012



34-9408.US



34-9404.US



Further information in our brochure  
Electrosurgical Units  
[www.geister.com](http://www.geister.com)

## Bipolar Jeweler's Forceps

with flat Euro-plug, straight tip,

straight blunt	sharp	angled blunt	sharp	Length mm/"	Tip mm
Art.-No.	Art.-No.	Art.-No.	Art.-No.		
10-7000	-	10-7002	-	70/3¼	0.45
10-7010	-	10-7014	-	110/ 4¼	0.60
-	10-7001	-	10-7003	70/3¼	0.25
-	10-7012	-	10-7016	110/ 4¼	0.25

## Bipolar Bayonet Tissue Forceps

with flat Euro-plug

straight	forward angled	backwards angled	Length mm/"	Tip mm
Art.-No.	Art.-No.	Art.-No.		
10-7110	10-7112	10-7116	180/7	1.0
10-7111	10-7113	10-7117	180/7	0.3
10-7114	10-7115	10-7118	180/7	2.0
10-7120	10-7122	10-7126	200/8	1.0
10-7121	10-7123	10-7127	200/8	0.3
10-7124	10-7125	10-7128	200/8	2.0
10-7130	10-7132	10-7136	220/8¾	1.0
10-7131	10-7133	10-7137	220/8¾	0.3
10-7134	10-7135	10-7138	220/8¾	2.0
10-7140	10-7142	10-7146	240/9½	1.0
10-7141	10-7143	10-7147	240/9½	0.3
10-7144	10-7145	10-7148	240/9½	2.0

## Bipolar ENT Tissue Forceps

with flat Euro-plug, knee-bent, straight tip

Art.-No.	Length mm/"	Tip mm
10-7020	150/6	1.0
10-7022	150/6	0.3
10-7021	150/6	2.0

\* Most Bipolar Forceps are also available with USA-plug (2 pins) on request.  
For ordering simply add ".US" behind article number (e.g. 10-7110.US).

bold = shown



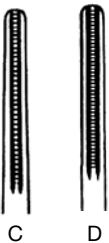
10-0097



10-0110



10-0052



## Tissue Forceps

with DeBakey Jaws

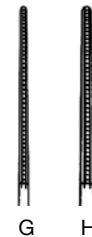
Fig.	Art.-No.	Length mm/"	Jaw mm
A	10-0106	150/6	1.5
A	10-0107	195/7½	1.5
A	10-0108	240/9½	1.5
A	10-0109	300/12	1.5
B	<b>10-0110</b>	150/6	2.0
B	10-0112	195/7½	2.0
B	10-0114	240/9½	2.0
B	10-0116	300/12	2.0
B	10-0118	380/15	2.0
C	10-0121	150/6	2.8
C	10-0123	195/7½	2.8
C	10-0125	240/9½	2.8
C	10-0127	300/12	2.8
C	10-0129	380/15	2.8
D	10-0131	160/6¼	3.5
D	10-0133	200/8	3.5
D	10-0135	240/9½	3.5
D	10-0137	300/12	3.5



## Ultra-light

with DeBakey Jaws

Fig.	Art.-No.	Length mm/"	Jaw mm
E	10-0050	150/6	1.0
E	<b>10-0052</b>	195/7½	1.0
E	10-0054	240/9½	1.0
F	10-0050.MM	150/6	1.5
F	10-0052.MM	195/7½	1.5
F	10-0054.MM	240/9½	1.5



## Diethrich

with DeBakey Jaws

Fig.	Art.-No.	Length mm/"	Jaw mm
G	10-0096	150/6	1.0
G	<b>10-0097</b>	195/7½	1.0
G	10-0098	240/9½	1.0
H	10-0100	150/6	1.5
H	10-0102	195/7½	1.5
H	10-0104	240/9½	1.5



10-0126



10-0144



10-0150



10-0182





## Tissue Forceps

with DeBakey Jaws

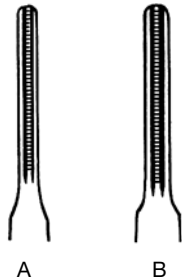


Fig.	Art.-No.	Length mm/"	Jaw mm
A	10-0120	150/6	2.7
A	10-0122	195/7½	2.7
A	10-0124	240/9½	2.7
A	<b>10-0126</b>	300/12	2.7
A	10-0128	380/15	2.7
B	10-0130	150/6	3.5
B	10-0132	195/7½	3.5
B	10-0134	240/9½	3.5
B	10-0136	300/12	3.5
B	10-0138	380/15	3.5

with DeBakey Jaws, angled

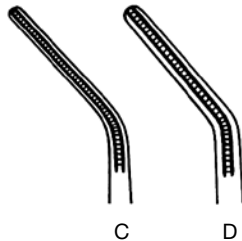


Fig.	Art.-No.	Length mm/"	Jaw mm
C	10-0140	150/6	2.0
C	10-0142	195/7½	2.0
C	<b>10-0144</b>	240/9½	2.0
C	10-0146	300/12	2.0
D	10-0141	150/6	2.7
D	10-0143	195/7½	2.7
D	10-0145	240/9½	2.7
D	10-0148	300/12	2.7



## Tissue Forceps

with Cooley Jaws

Fig.	Art.-No.	Length mm/"	Jaw mm
E	10-0180	150/6	2.0
E	<b>10-0182</b>	195/7½	2.0
E	10-0184	240/9½	2.0



## Diethrich

with DeBakey Jaws, angled

Fig.	Art.-No.	Length mm/"	Jaw mm
F	<b>10-0150</b>	150/6	1.5
F	10-0052	195/7½	1.5
F	10-0154	240/9½	1.5



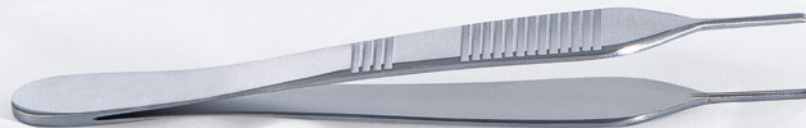
Atraumatic Tissue Forceps



10-0350



10-0072



10-0105



10-0090



10-0073





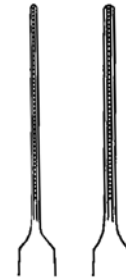
A



## Cushing

with DeBakey Jaws

Fig.	Art.-No.	Length mm/"	Jaw mm
A	<b>10-0072</b>	180/7	1.0



B

C



## Gerald

with DeBakey Jaws

Fig.	Art.-No.	Length mm/"	Jaw mm	Description
B	<b>10-0073</b>	150/6	1.0	without pin
B	10-0075	180/7	1.0	without pin
C	10-0089	150/6	1.2	
C	<b>10-0090</b>	180/7	1.2	
C	10-0091	240/9½	1.2	



D



## Adson

with DeBakey Jaws

Fig.	Art.-No.	Length mm/"	Jaw mm
D	<b>10-0105</b>	125/5	1.5



E



## Gerald

Titanium, with DeBakey Jaws

Fig.	Art.-No.	Length mm/"	Jaw mm
E	<b>10-0350</b>	180/7	1.2
E	<b>10-0351</b>	200/8	1.2



Tissue Forceps with TC-Inserts



10-0602

10-0610

10-0636

10-0642

10-0630

10-0620



**Needlepulling TC\***

with DeBakey Jaws, 6 x 12



Fig.	Art.-No.	Length mm/"	Jaw mm
A	10-0600	150/6	1.5
A	<b>10-0602</b>	195/7½	1.5
A	10-0604	240/9½	1.5

with DeBakey Jaws, 6 x 12

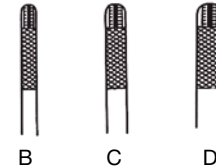


Fig.	Art.-No.	Length mm/"	Jaw mm
B	<b>10-0620</b>	150/6	2.0
B	10-0622	195/7½	2.0
B	10-0624	240/9½	2.0
B	10-0624.30	300/12	2.0
C	<b>10-0630</b>	150/6	2.7
C	10-0632	195/7½	2.7
C	10-0634	240/9½	2.7
D	10-0640	150/6	3.5
D	<b>10-0642</b>	195/7½	3.5
D	10-0644	240/9½	3.5

with DeBakey Jaws, 2 x 4



Fig.	Art.-No.	Length mm/"	Jaw mm
E	<b>10-0610</b>	150/6	1.5
E	10-0612	195/7½	1.5
E	10-0614	240/9½	1.5

with DeBakey Jaws, 2 x 4

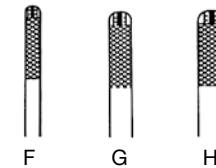


Fig.	Art.-No.	Length mm/"	Jaw mm
F	10-0626	150/6	2.0
F	10-0627	195/7½	2.0
F	10-0628	240/9½	2.0
F	10-0628.30	300/12	2.0
G	<b>10-0636</b>	150/6	2.7
G	10-0637	195/7½	2.7
G	10-0638	240/9½	2.7
H	10-0646	150/6	3.5
H	10-0647	195/7½	3.5
H	10-0648	240/9½	3.5

\*add ".WP" behind catalog reference if desired with pin.

**bold** = shown



10-0501



10-0500

10-0504



10-0552



10-0551





A

## Adson TC

Smooth

Fig.	Art.-No.	Length mm/"	Jaw mm
A	<b>10-0501</b>	120/4¾	1.6



B

## Standard

Fig.	Art.-No.	Length mm/"	Jaw mm
B	<b>10-0500</b>	120/4¾	1.6
B	10-0502	150/6	1.6



C

## Adson-Brown TC

Fig.	Art.-No.	Length mm/"	Jaw mm
C	<b>10-0504</b>	125/5	2.0
C	10-0505	150/6	2.0



D



## Adson TC 1 x 2

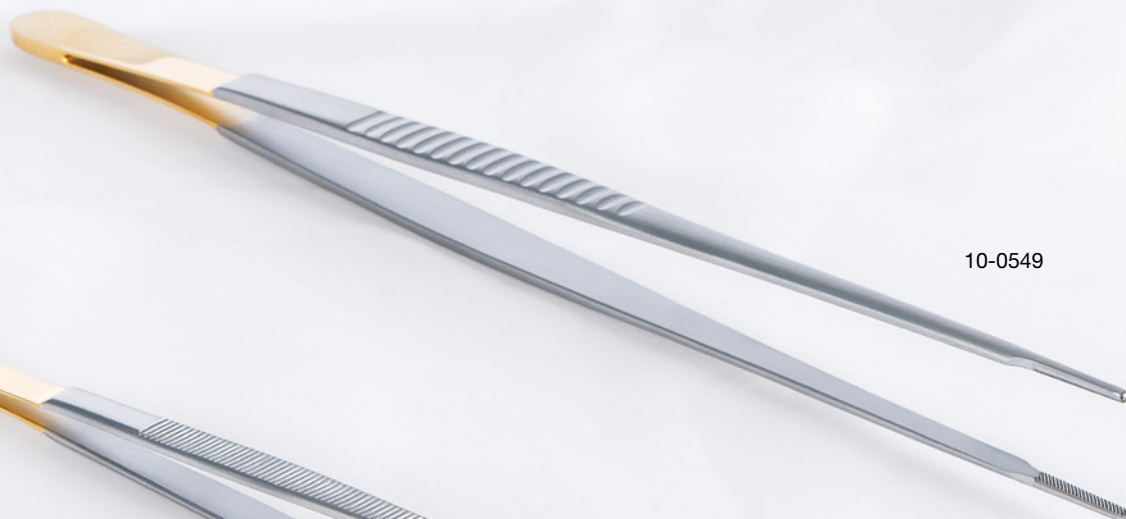
Fig.	Art.-No.	Length mm/"	Jaw mm
D	10-0550	120/4¾	1.7
D	<b>10-0552</b>	150/6	1.7



E

## Micro-Adson TC

Fig.	Art.-No.	Length mm/"	Jaw mm
E	<b>10-0551</b>	120/4¾	1.0
E	10-0553	150/6	1.0



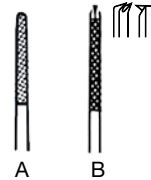
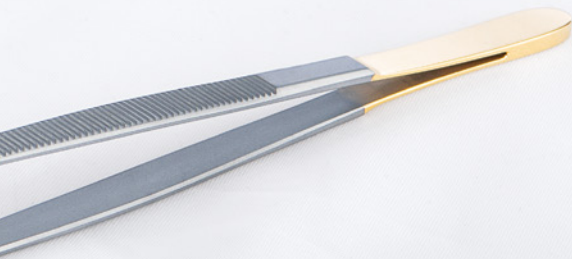
10-0549



10-0519

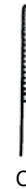


10-0570



### Gerald TC

Fig.	Art.-No.	Length mm/"	Jaw mm
A	10-0518	180/7	1.0
B	<b>10-0570</b>	180/7	1.3 (1x2 teeth)



### Micro-Gerald TC

Fig.	Art.-No.	Length mm/"	Jaw mm
C	<b>10-0519</b>	180/7	0.7

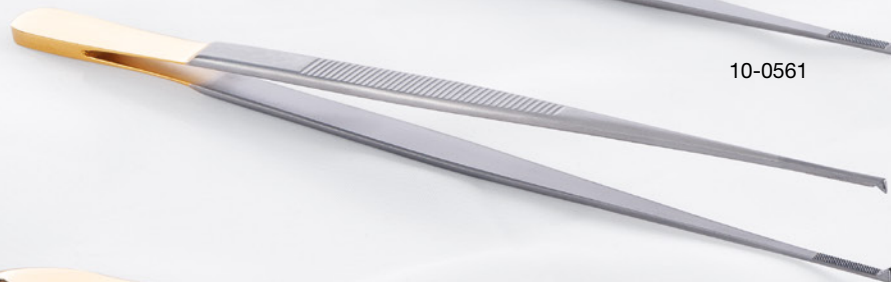


### Evans TC

Fig.	Art.-No.	Length mm/"
D	<b>10-0549</b>	250/10



10-0561



10-0567



10-0514

10-0581



10-0585





### Mod. USA TC

Fig.	Art.-No.	Length mm/"
A	<b>10-0514</b>	150/6



### Oehler TC 1 x 2

Fig.	Art.-No.	Length mm/"
B	10-0560	145/5½
B	<b>10-0561</b>	160/6¼
B	10-0562	180/7
B	10-0563	200/8
B	10-0564	250/10

*delicate*

Fig.	Art.-No.	Length mm/"
C	10-0565	145/5½
C	10-0566	160/6¼
C	<b>10-0567</b>	180/7
C	10-0568	200/8
C	10-0569	250/10



### Skinner TC 1 x 2

Fig.	Art.-No.	Length mm/"	Size
D	10-0580	230/9	S
E	<b>10-0581</b>	230/9	M
F	10-0582	230/9	L



### Bonney TC (Mod. Baker) 1 x 2

Fig.	Art.-No.	Length mm/"
G	<b>10-0585</b>	170/6¾



10-0507

10-0527



10-0544

10-0534



A

### Micro-Potts-Smith TC

with dissector

Fig.	Art.-No.	Length mm/"	Jaw mm
A	<b>10-0507</b>	210/8½	0.7



B

### Potts-Smith TC

with dissector

Fig.	Art.-No.	Length mm/"	Jaw mm
B	10-0526	180/7	1.8
B	<b>10-0527</b>	210/8½	1.8
B	10-0528	230/9	1.8
B	10-0529	250/10	1.8



C



D

### Standard TC

Fig.	Art.-No.	Length mm/"	Jaw mm
C	10-0530	145/5½	1.8
C	10-0532	160/6¼	1.8
C	<b>10-0534</b>	180/7	1.8
C	10-0535	200/8	1.8
C	10-0536	230/9	1.8
C	10-0537	250/10	1.8
D	10-0540	145/5½	2.7
D	10-0541	160/6¼	2.7
D	10-0542	180/7	2.7
D	10-0543	200/8	2.7
D	<b>10-0544</b>	230/9	2.7



10-0545



10-0513



10-0508



10-0513.GB





McIndoe TC

Fig.	Art.-No.	Length mm/"
A	<b>10-0508</b>	150/6

Cushing TC

with dissector, straight



Fig.	Art.-No.	Length mm/"	Jaw mm	Description
B	10-0511	180/7	0.8	without pin
B	<b>10-0513</b>	180/7	0.8	with pin
C	10-0510	180/7	2.0	with pin

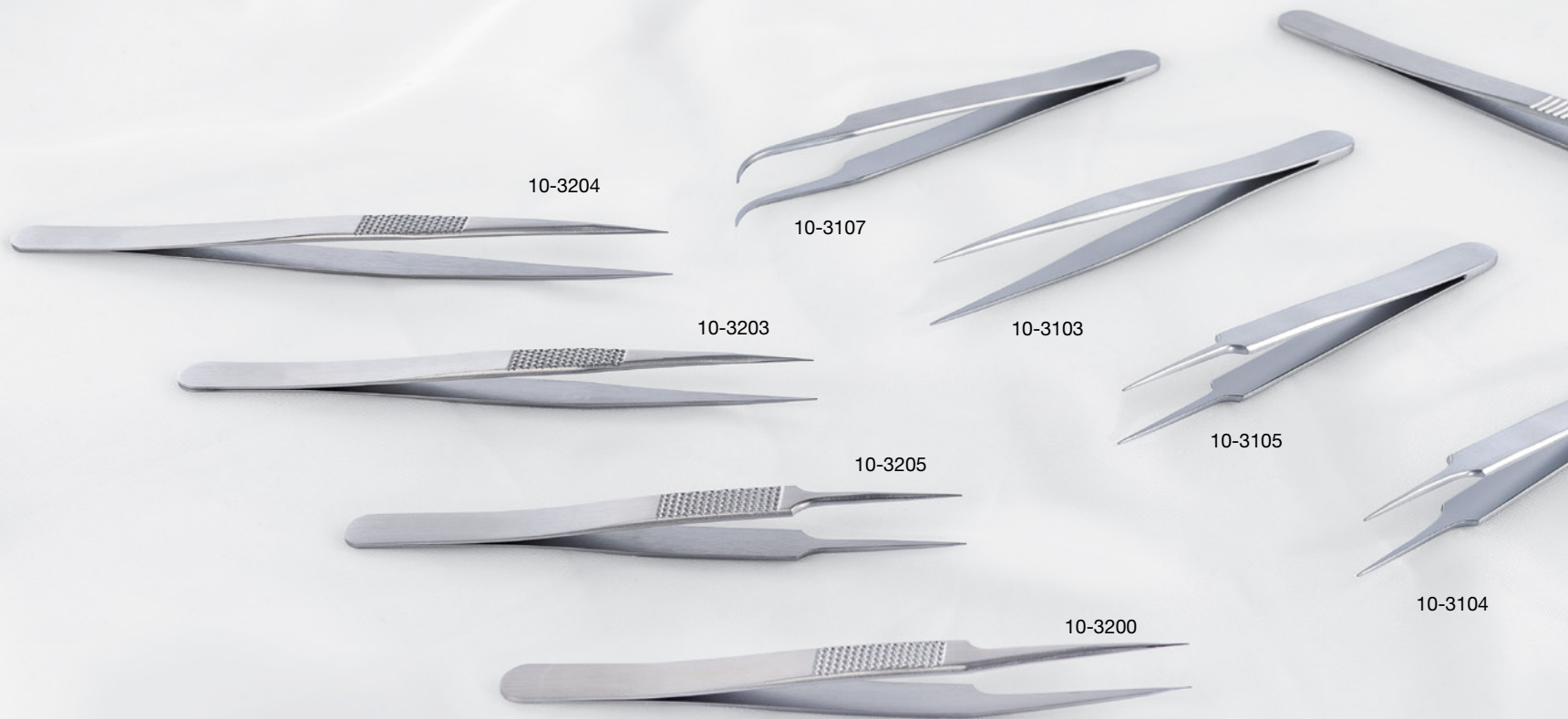
angled

Fig.	Art.-No.	Length mm/"	Jaw mm	Description
B	10-0511.GB	180/7	0.8	without pin
B	<b>10-0513.GB</b>	180/7	0.8	with pin
C	10-0512	180/7	2.0	with pin



Wangensteen TC

Fig.	Art.-No.	Length mm/"
D	<b>10-0545</b>	150/6
D	10-0546	230/9
D	10-0547	250/10



10-3204

10-3107

10-3103

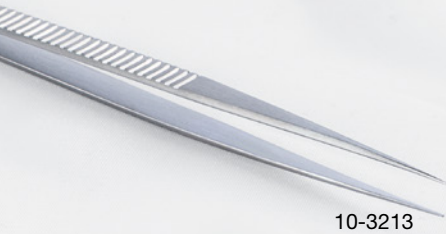
10-3105

10-3104

10-3203

10-3205

10-3200



10-3213



## Jeweller's

No. 3

Art.-No.	Length mm/"
<b>10-3103</b>	115/4½

No. 4

Art.-No.	Length mm/"
<b>10-3104</b>	115/4½

No. 5

Art.-No.	Length mm/"
<b>10-3105</b>	115/4½

No. 7

Art.-No.	Length mm/"
<b>10-3107</b>	115/4½

## Micro Jeweller's\*

Extra precisely matching jaws  
with ultra-delicate 0,3 mm tips

Art.-No.	Length mm/"
<b>10-3203</b>	120/4¾
<b>10-3204</b>	135/5¼
<b>10-3205</b>	110/4¼
<b>10-3213</b>	180/7



## Dilator's\*

with 10° angled dilation tips

Fig.	Art.-No.	Length mm/"	Jaw mm
A	<b>10-3200</b>	110/4¼	0.2
A	<b>10-3211</b>	110/4¼	0.1

\*Also available with Sapphire™-jaws on request (add ".AS" behind the article no.)



10-1750



10-1751



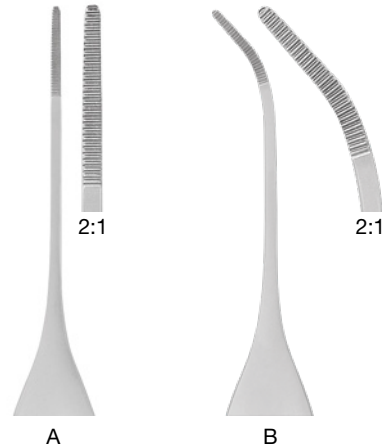
10-1834



10-1752





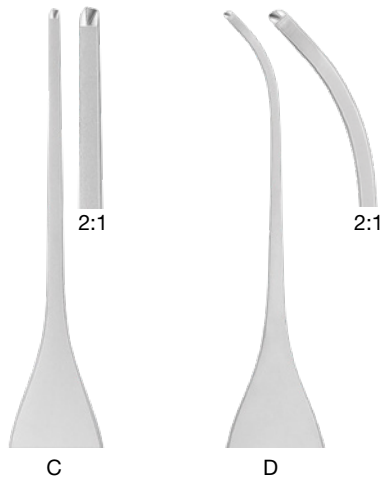


### Broli-Adson

Fig.	Art.-No.	Length mm/"	Jaw mm
A	<b>10-1750</b>	150/6	1.2

curved

Fig.	Art.-No.	Length mm/"	Jaw mm
B	<b>10-1752</b>	150/6	1.2



### Broli-Adson 1 x 2

Fig.	Art.-No.	Length mm/"	Jaw mm
C	<b>10-1751</b>	150/6	1.2

curved

Fig.	Art.-No.	Length mm/"	Jaw mm
D	<b>10-1834</b>	150/6	1.2



Dressing Forceps

10-2008



10-2026



10-1740



10-1743



10-2047



10-2041

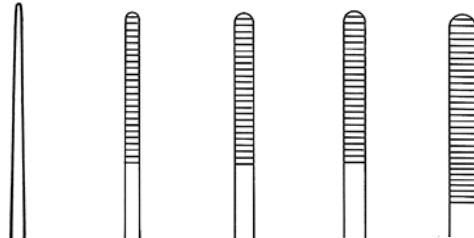


10-1910





## Standard



	pointed smooth	delicate	medium	slender	regular	Length mm/"
	Art.-No.	Art.-No.	Art.-No.	Art.-No.	Art.-No.	
-	-	-	-	10-2020	10-2000	105/4
-	10-2045	-	-	10-2022	10-2002	115/4¼
-	10-2046	-	-	10-2024	10-2004	130/5
-	<b>10-2047</b>	<b>10-2041</b>	<b>10-2026</b>	10-2006	10-2006	145/5½
-	-	-	-	10-2028	<b>10-2008</b>	160/6¼
-	-	-	-	10-2030	10-2010	180/7
10-3002	-	-	-	10-2032	10-2012	200/8
-	-	-	-	10-2034	10-2014	230/9
-	-	-	-	10-2036	10-2016	250/10
-	-	-	-	10-2038	10-2018	300/12

## Adson

Art.-No.	Length mm/"	Jaw mm
<b>10-1740</b>	120/4¾	1.3
10-1742	150/6	2.0

## Micro-Adson

Art.-No.	Length mm/"	Jaw mm
10-1741	120/4¾	1.2
<b>10-1743</b>	150/6	1.2
10-1743.08	150/6	0.8

## Cushing

Art.-No.	Length mm/"	Description
<b>10-1910</b>	175/6¾	straight
10-1911	175/6¾	curved
<b>10-1910.TI</b>	175/6¾	straight, titanium

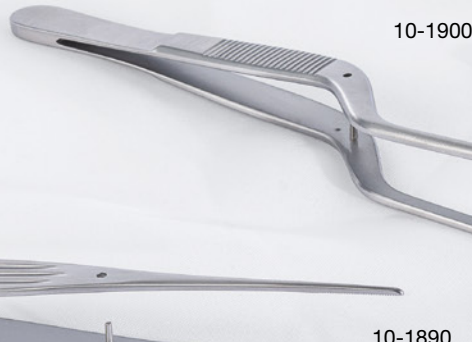


Dressing Forceps

10-1550



10-1902



10-1900



10-1890



10-1895



10-1880



### Semken

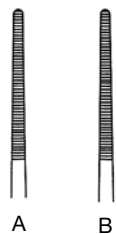
Art.-No.	Length mm/"	Description
<b>10-1880</b>	130/5	straight
10-1881	130/5	curved
10-1882	145/5½	straight
10-1883	145/5½	curved

### Gerald

Art.-No.	Length mm/"	Description
<b>10-1900</b>	180/7	straight
10-1901	180/7	curved
<b>10-1550</b>	240/9½	straight

### McIndoe

Fig.	Art.-No.	Length mm/"
A	<b>10-1890</b>	150/6



### Gillies

Fig.	Art.-No.	Length mm/"
B	<b>10-1895</b>	150/6

### Gerald Bayonet

Art.-No.	Length mm/"	Description
<b>10-1902</b>	195/7½	straight



10-1831



10-1832



10-1835



10-1839

**Adson Brown 7 x 7**

Art.-No.	Length mm/"	Jaw mm
<b>10-1835</b>	120/4¾	1.9

**Adson 1 x 2**

Fig.	Art.-No.	Length mm/"	Jaw mm
A	<b>10-1832</b>	120/4¾	1.3
A	10-1838	150/6	1.7

*serrated*

Fig.	Art.-No.	Length mm/"	Jaw mm
B	<b>10-1831</b>	120/4¾	1.3
B	10-1837	150/6	1.7

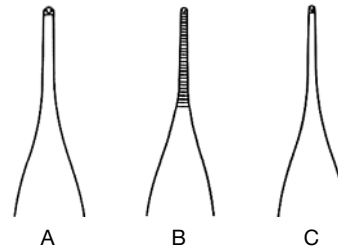
**Micro-Adson 1 x 2**

Fig.	Art.-No.	Length mm/"	Jaw mm
C	10-1833	120/4¾	0.8
C	<b>10-1839</b>	150/6	1.0
	10-1839.08	150/6	0.8 (Strelj)



Tissue Forceps

10-2108



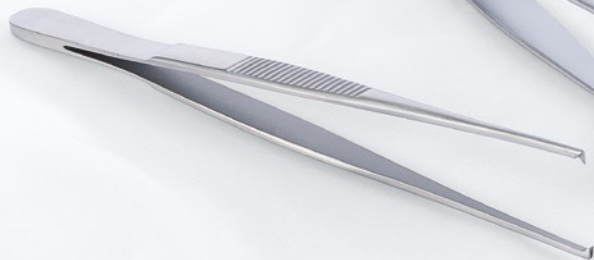
10-2142



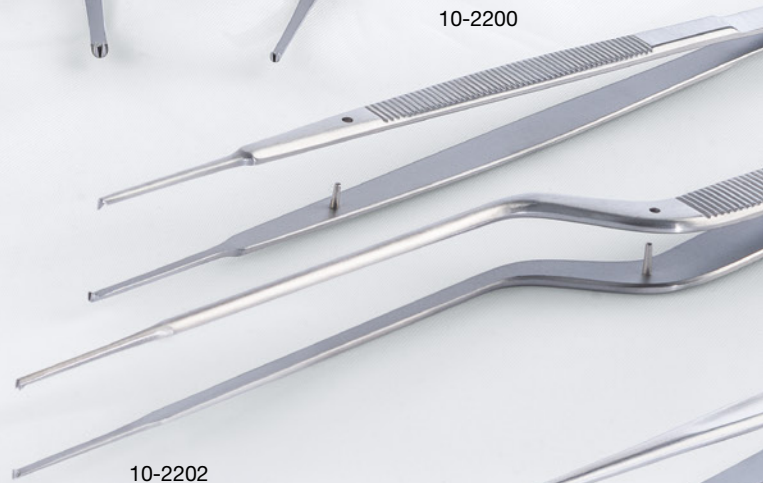
10-2132



10-2124

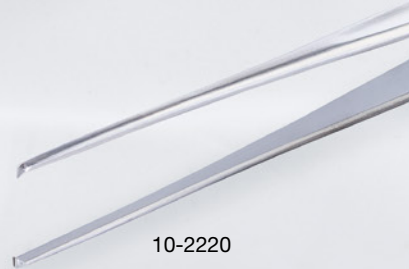


10-2200







10-2202

10-2220






**Standard 1 x 2**

				<b>Length</b>
<b>delicate</b>	<b>slender/ medium</b>	<b>regular</b>	<b>Wide</b>	<b>mm/"</b>
<b>Art.-No.</b>	<b>Art.-No.</b>	<b>Art.-No.</b>	<b>2x3 teeth</b>	
10-2130	10-2122	10-2102	-	115/4¼
10-2131	<b>10-2124</b>	10-2104	10-2140	130/5
<b>10-2132</b>	10-2126	10-2106	<b>10-2142</b>	145/5½
-	10-2128	<b>10-2108</b>	10-2144	160/6¼
-	-	10-2110	10-2146	180/7
-	-	10-2112	10-2148	200/8
-	-	10-2114	-	230/9
-	-	10-2116	-	250/10
-	-	10-2118	-	300/12


**Gerald 1 x 2**

<b>Fig.</b>	<b>Art.-No.</b>	<b>Length mm/"</b>	<b>Description</b>
A	<b>10-2200</b>	180/7	straight
B	10-2201	180/7	curved
A	10-1551	235/9¼	straight


**Gerald Bayonet 1 x 2**

<b>Fig.</b>	<b>Art.-No.</b>	<b>Length mm/"</b>
C	<b>10-2202</b>	180/7



**Cushing 1 x 2**

<b>Fig.</b>	<b>Art.-No.</b>	<b>Length mm/"</b>	<b>Description</b>
D	<b>10-2220</b>	175/6¾	straight
E	10-2221	175/6¾	curved

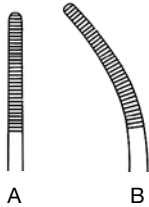


Dressing and Tissue Forceps



## Potts-Smith

Fig.	Art.-No.	Length mm/"	Description
A	10-1920	180/7	straight
B	10-1921	180/7	curved
A	<b>10-1922</b>	210/8¼	straight
B	10-1923	210/8¼	curved
A	10-1924	250/10	straight
B	10-1925	250/10	curved
A	10-1926	300/12	straight
B	10-1927	300/12	curved



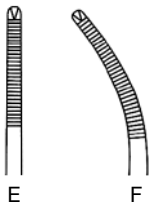
## Semken 1 x 2

Fig.	Art.-No.	Length mm/"	Description
C	10-2170	130/5	straight
D	10-2171	130/5	curved
C	<b>10-2172</b>	155/6¼	straight
D	10-2173	155/6¼	curved



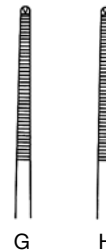
## Potts-Smith 1 x 2

Fig.	Art.-No.	Length mm/"	Description
E	10-2210	180/7	straight
F	10-2211	180/7	curved
E	<b>10-2212</b>	210/8¼	straight
F	10-2213	210/8¼	curved
E	10-2214	250/10	straight
F	10-2215	250/10	curved
E	10-2216	300/12	straight
F	10-2217	300/12	curved



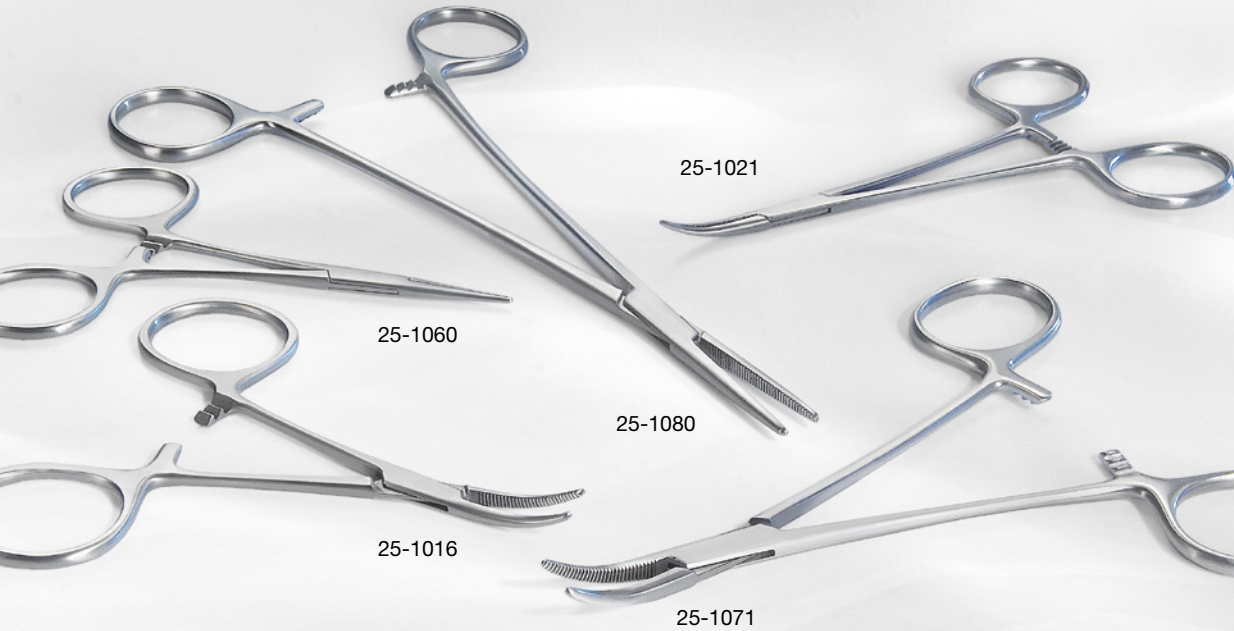
## McIndoe 1 x 2

Fig.	Art.-No.	Length mm/"
G	<b>10-2190</b>	150/6

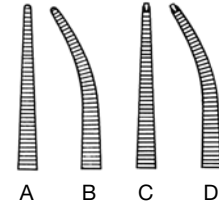


## Gillies 1 x 2

Fig.	Art.-No.	Length mm/"
H	<b>10-2195</b>	150/6



1 x 2 teeth



### Micro-Mosquito

Fig.	Art.-No.	Length mm/''
A	25-1010	100/4
B	25-1011	100/4
C	25-1015	100/4
D	<b>25-1016</b>	100/4

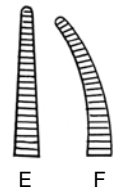


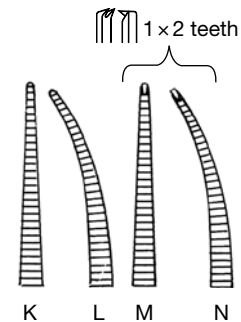
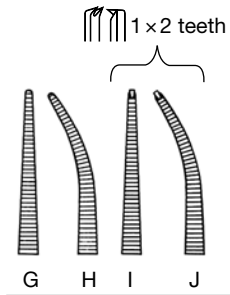
### Baby-Mosquito (Hartmann)

Fig.	Art.-No.	Length mm/''
E	<b>25-1060</b>	100/4
F	25-1061	100/4

Titanium

Fig.	Art.-No.	Length mm/''
E	<b>25-1060.TI</b>	100/4
F	<b>25-1061.TI</b>	100/4



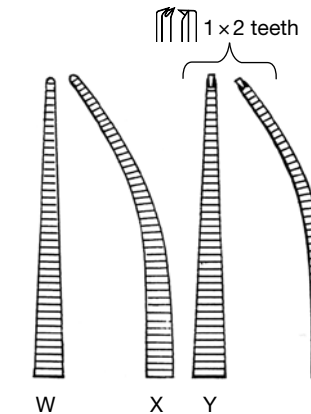
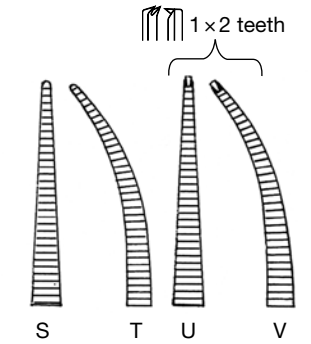
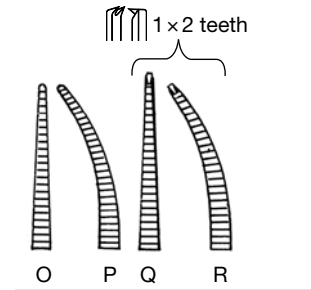


### Micro-Halstead-Mosquito

Fig.	Art.-No.	Length mm/''
G	25-1020	125/5
H	<b>25-1021</b>	125/5
I	25-1025	125/5
J	25-1026	125/5
K	25-1030	140/5½
L	25-1031	140/5½
M	25-1035	140/5½
N	25-1036	140/5½

#### Titanium

Fig.	Art.-No.	Length mm/''
G	<a href="#">25-1020.TI</a>	125/5
H	<a href="#">25-1021.TI</a>	125/5
J	<a href="#">25-1026.TI</a>	125/5



### Halstead-Mosquito

Fig.	Art.-No.	Length mm/''
O	25-1070	125/5
P	<b>25-1071</b>	125/5
Q	25-1075	125/5
R	25-1076	125/5
S	<b>25-1080</b>	180/7
T	25-1081	180/7
U	25-1085	180/7
V	25-1086	180/7
W	25-1090	200/8
X	25-1091	200/8
Y	25-1092	200/8
Z	25-1093	200/8

#### Titanium

Fig.	Art.-No.	Length mm/''
	<a href="#">25-1070.TI</a>	125/5
	<a href="#">25-1071.TI</a>	125/5
	<a href="#">25-1075.TI</a>	125/5
	<a href="#">25-1076.TI</a>	125/5



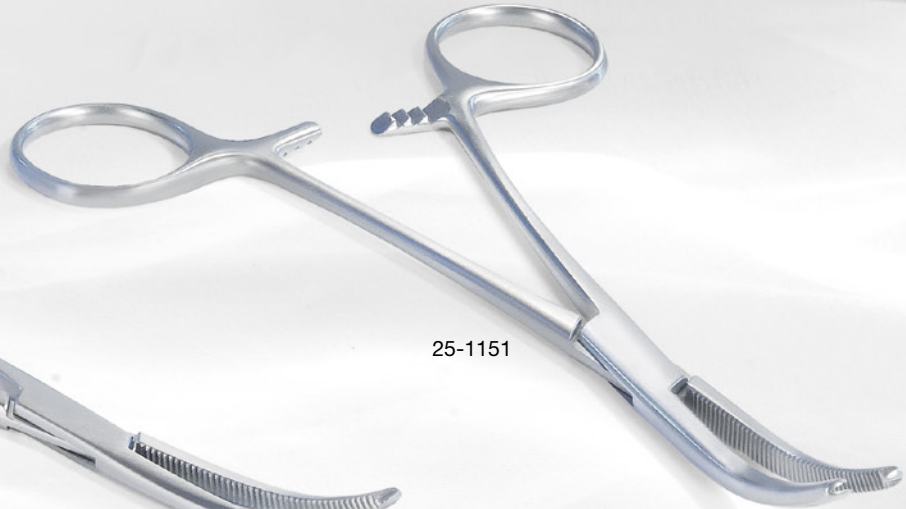
Hemostatic Forceps



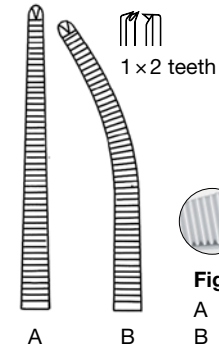
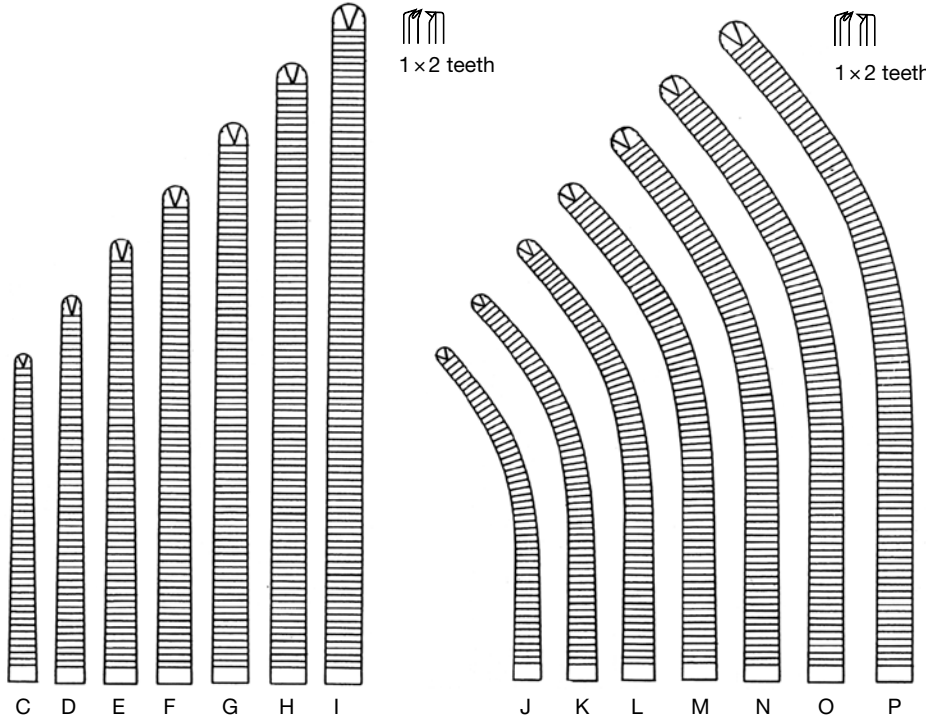
25-1143



25-1150



25-1151



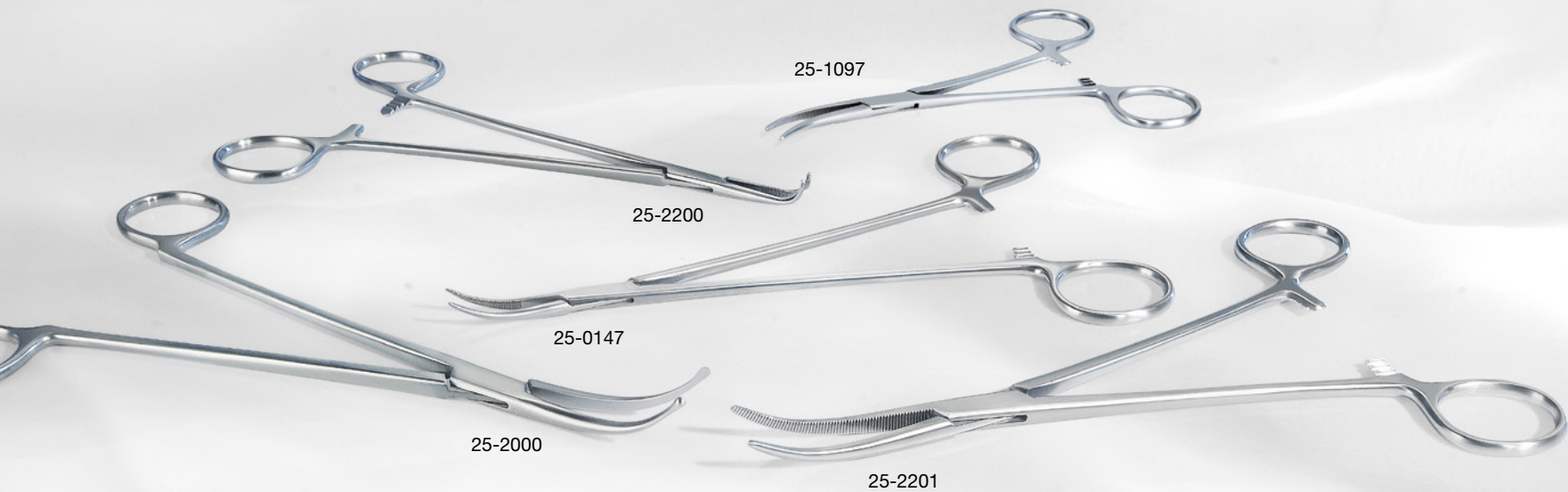
**Kocher**

Fig.	Art.-No.	Length mm /"
A	25-1140	140/5½
B	<b>25-1150</b>	140/5½

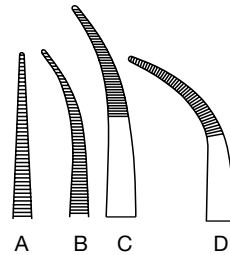


**Ochsner**

Fig.	Art.-No.	Length mm /"
C	25-1141	160/6¼
D	25-1142	180/7
E	<b>25-1143</b>	200/8
F	25-1144	220/8¾
G	25-1145	240/9½
H	25-1146	260/10¼
I	25-1147	300/11¾
J	<b>25-1151</b>	160/6¼
K	25-1152	180/7
L	25-1153	200/8
M	25-1154	220/8¾
N	25-1155	240/9½
O	25-1156	260/10¼
P	25-1157	300/11¾







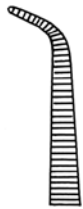
### Jacobson (extra delicate)

Fig.	Art.-No.	Length mm/"
A	25-0144	130/5
B	25-0145	130/5
C	<b>25-0147</b>	190/7½
D	25-0148	190/7½



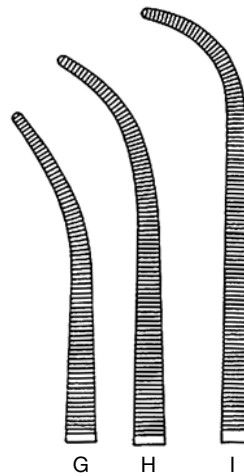
### Hilus-Pulmonis

Fig.	Art.-No.	Length mm/"
E	<b>25-2000</b>	200/8



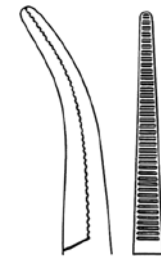
### Forceps

Fig.	Art.-No.	Length mm/"
F	<b>25-2200</b>	185/7¼



### Kelly

Fig.	Art.-No.	Length mm/"
G	<b>25-2201</b>	190/7½
	25-2204	220/8¾
	25-2207	240/9½
H	25-2202	190/7½
	25-2205	220/8¾
	25-2208	240/9½
I	25-2203	190/7½
	25-2206	220/8¾
	25-2209	240/9½



### Dandy

side-curved

Fig.	Art.-No.	Length mm/"
J	<b>25-1097</b>	140/5½



Sponge Forceps

25-9022



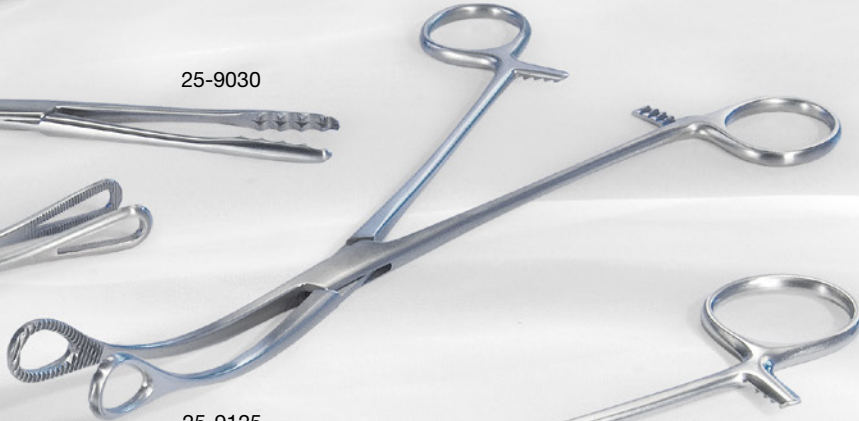
25-9030



25-9130



25-9125

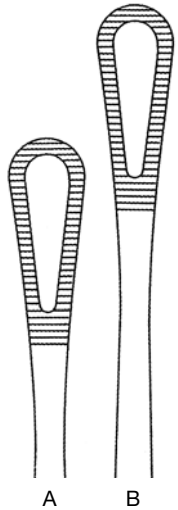


25-9017



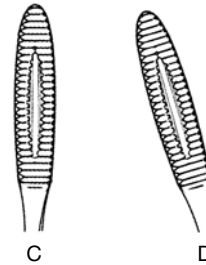
## Sponge Forceps

GEISTER®



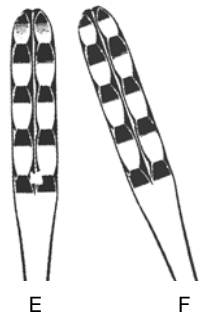
## Rampley

Fig.	Art.-No.	Length mm/''
A	<b>25-9130</b>	180/7
B	25-9132	250/10



## Gross-Maier

Fig.	with ratchet Art.-No.	without ratchet Art.-No.	Length mm/''
C	25-9010	25-9020	200/8
	25-9011	25-9021	220/8¾
	25-9012	<b>25-9022</b>	250/10
	25-9013	25-9023	270/10½
D	25-9014	25-9024	200/8
	25-9015	25-9025	220/8¾
	25-9016	25-9026	250/10
	<b>25-9017</b>	25-9027	270/10½

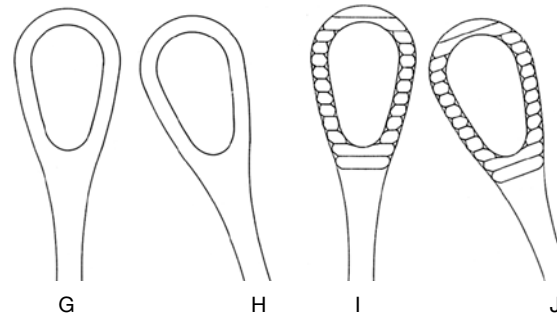


## Ulrich

Fig.	Art.-No.	Length mm/''
E	<b>25-9030</b>	220/8¾
	25-9032	270/10½
F	25-9035	220/8¾
	25-9037	270/10½

smooth jaws

serrated jaws

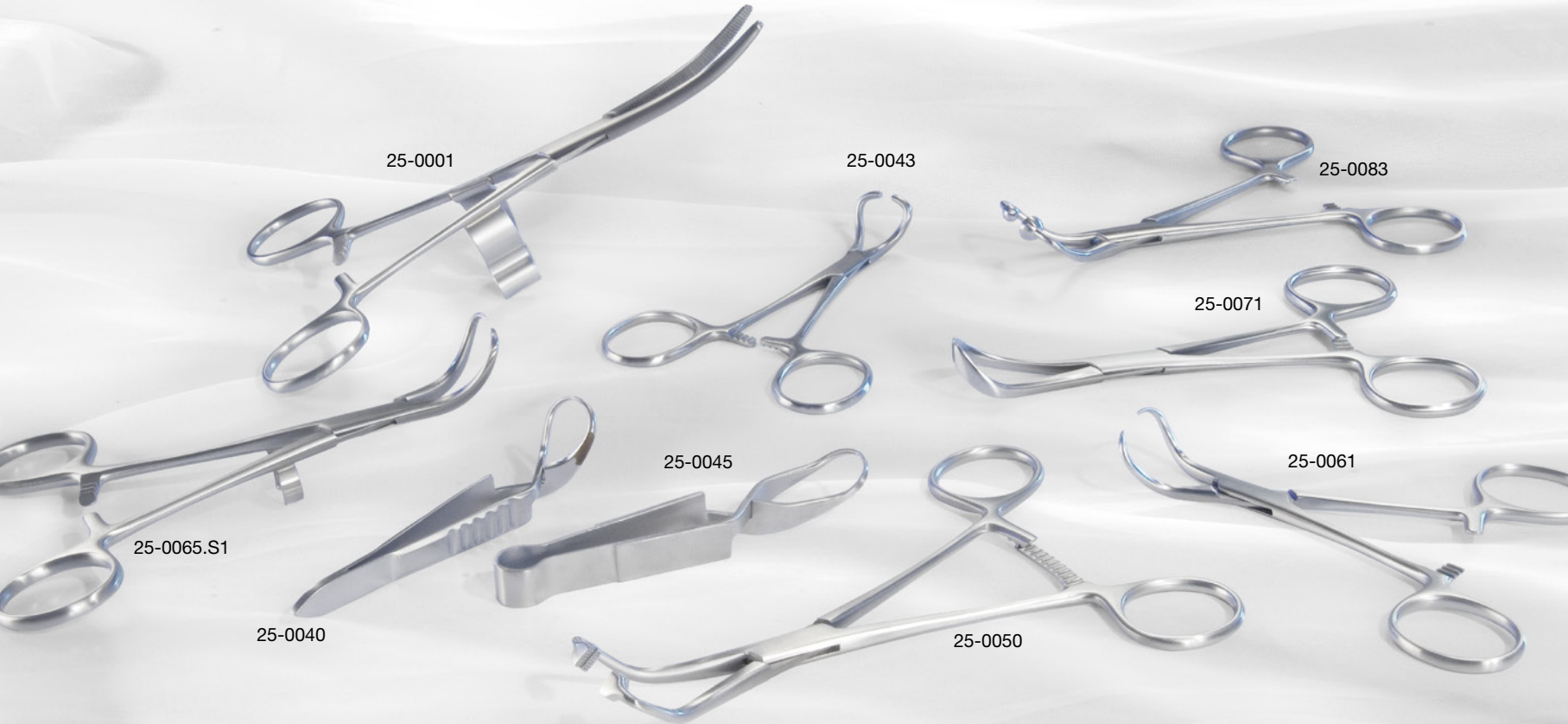


## Foerster (Ballenger)

Fig.	Art.-No.	Length mm/''
G	25-9110	250/10
H	25-9111	250/10
I	25-9120	180/7
	25-9121	200/8
J	25-9122	250/10
	25-9123	180/7
	25-9124	200/8
	<b>25-9125</b>	250/10
	25-9134	330/13



Towel Forceps and Tube Holding Forceps



25-0001

25-0043

25-0083

25-0071

25-0065.S1

25-0045

25-0061

25-0040

25-0050

## Jones

Art.-No.	Length mm/''
<b>25-0040</b>	90/3½

## Tohoku

Art.-No.	Length mm/''
<b>25-0043</b>	100/4
25-0044	130/5

## Schaedel

Art.-No.	Length mm/''
<b>25-0045</b>	90/3½

## Peers

Art.-No.	Length mm/''
<b>25-0050</b>	145/5¾

## Backhaus

Art.-No.	Length mm/''
25-0060	90/3½
<b>25-0061</b>	110/4¼
25-0062	130/5
25-0063	150/6

## Lorna

Art.-No.	Length mm/''
25-0070	100/4
<b>25-0071</b>	130/5

## Socket & Ball

Art.-No.	Length mm/''
25-0082	115/4½
<b>25-0083</b>	130/5
25-0085	150/6

## Tube Holding Forceps - Green

Art.-No.	Length mm/''
<b>25-0001</b>	16/6¼

## Towel Forceps with Tube Holder - Morse

For holding extracorporeal tubing to drapes.

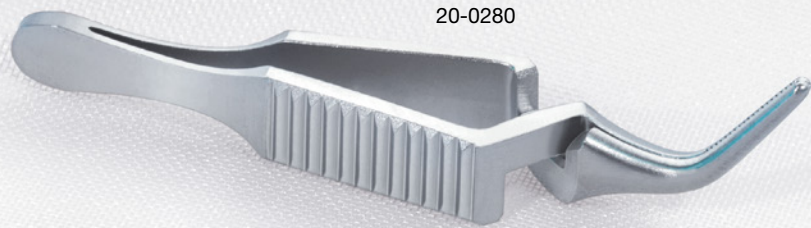
Art.-No.	Length mm/''	for Tube size* Ø mm/''
25-0065.00	130/5	2.5/⅛
25-0065.01	130/5	6/¼
25-0065.02	130/5	8.5/⅜
25-0065.03	130/5	12.5/½
25-0065.04	130/5	18/¾
<b>25-0065.S1</b>	130/5	9.5/⅜
25-0065.S2	130/5	14/⅞
25-0065.S3	130/5	17.5/1⅛

## Socket & Ball Paper Towel Forceps with Tube Holder

Art.-No.	Length mm/''	for Tube size* Ø mm/''
25-0086.01	130/5	6/¼
25-0086.02	130/5	8.5/⅜
25-0086.03	130/5	12.5/½



Micro Bulldog Clamps



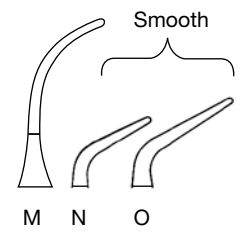
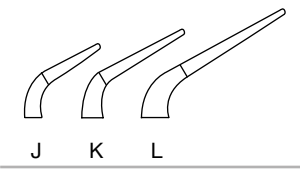
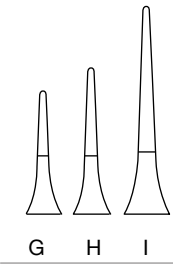
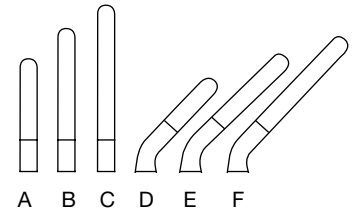
20-0280



20-0502



20-0214



## Micro Bulldog Clamps

GEISTER®



## Featherlight

Fig.	Art.-No.	Length mm /"	Length of Jaws mm	Weight g	Force g
A	20-0200	31/1¼	10	1	170
B	20-0204	35/1½	12	1	150
C	20-0208	39/1½	16	1	120
D	20-0210	30/1¼	10	1	170
E	<b>20-0214</b>	33/1¼	12	1	150
F	20-0218	36/1½	16	1	120



## Diethrich

Strong

Fig.	Art.-No.	Length mm /"	Length of Jaws mm	Weight g	Force g
G	20-0270	48/1¾	8	3	170
H	20-0271	53/2	12	3	190
I	20-0272	59/2¼	17	3	200
J	<b>20-0280</b>	43/1½	8	3	215
K	20-0281	47/1¾	12	3	215
L	20-0282	50/2	19	3	210
M	20-0283	54/2	16	3	200
N	20-0285	44/1¾	13	3	200
O	20-0286	47/1¾	18	3	200

Standard

Fig.	Art.-No.	Length mm /"	Length of Jaws mm	Weight g	Force g
G	20-0300	48/1¾	8	3	90
H	20-0301	53/2	12	3	95
I	20-0302	59/2¼	17	3	90
J	20-0310	43/1½	8	3	95
K	20-0311	47/1¾	12	3	75
L	20-0312	50/2	19	3	90
M	20-0313	54/2	16	3	90
N	20-0315	44/1¾	13	3	100
O	20-0316	47/1¾	18	3	75



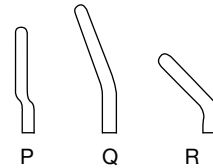
## Schwartz

Stainless Steel

Fig.	Art.-No.	Length mm /"	Length of Jaws mm
P	20-0500	26/1	10
Q	20-0501	27/1	12
R	<b>20-0502</b>	25/1	12

Titanium

Fig.	Art.-No.	Length mm /"	Length of Jaws mm
P	<a href="#">20-0500.TI</a>	26/1	10
Q	<a href="#">20-0501.TI</a>	27/1	12
R	<a href="#">20-0502.TI</a>	25/1	12



[20-0505.TI](#)  
Schwartz Applying Forceps

## Schwartz Applying Forceps

Stainless Steel

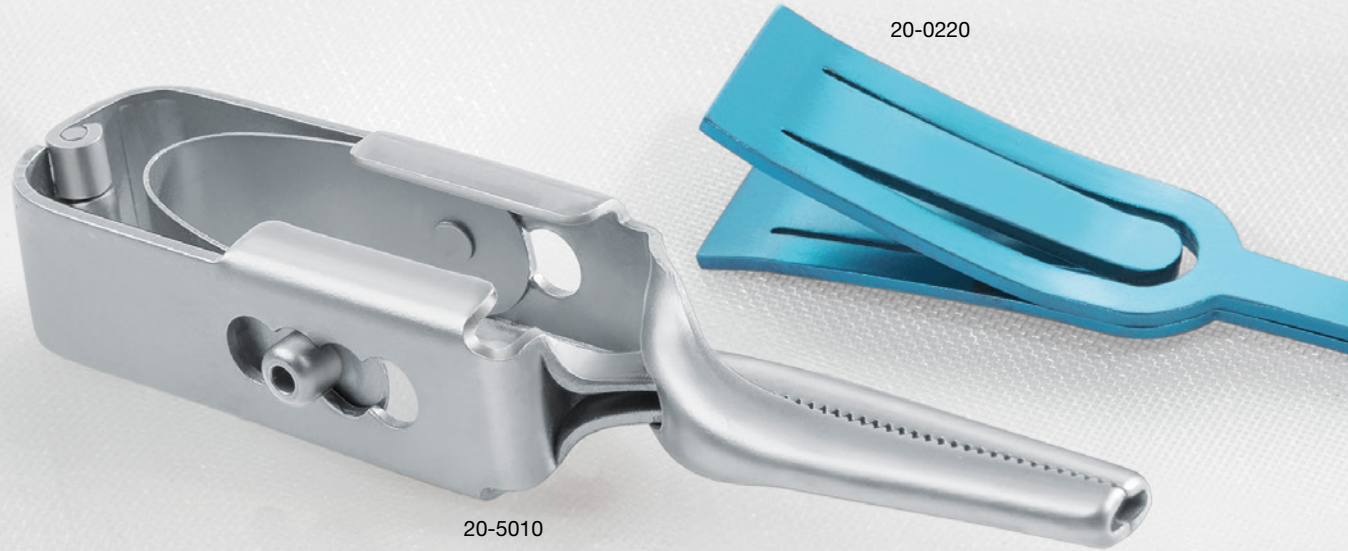
Fig.	Art.-No.	Length mm /"
	20-0505	190/7½

Titanium

Art.-No.	Length mm /"
<a href="#">20-0505.TI</a>	190/7½



Micro Clamps



20-0220

20-5010



75-0072  
Applying Forceps



Micro Clamps

GEISTER®





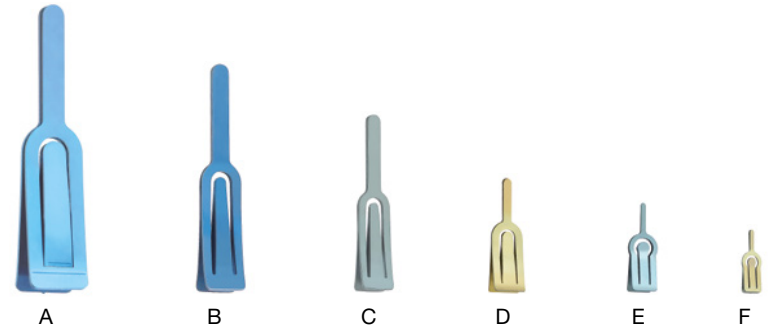
## Dingo-type Bulldog Clamps

These reusable, featherweight soft bulldog clamps are especially suitable for temporary occlusion.

The anti-magnetic clamps are made from titanium (grade 5) and are colored by anodization. Unlike steel, titanium does not stiffen with use, so these carefully calibrated titanium arterial clamps shall remain so indefinitely. They can be applied and removed with a utility forceps.

### Dingo-type Titanium Bulldog Clamps

Fig.	Art.-No.	Length mm/"	Length of Jaws mm	for Ø mm
A	<b>20-0220</b>	37.5/1½	15	4
B	<b>20-0221</b>	30/1¼	13	4
C	<b>20-0222</b>	24/1	10	3
D	<b>20-0223</b>	14/½	5	2
E	<b>20-0224</b>	11.5/½	4	1
F	<b>20-0225</b>	7.6/¼	2.5	1



### Protection Bulldog Clamp

Fig.	Art.-No.	Length mm/"	Length of Jaw mm
G	<b>20-5000</b>	35/1½	16

For pressure controlled preparation of the saphenous, opens at approx. 80 mm HG.

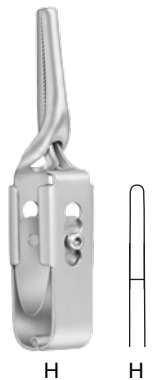


Fig.  
H

### Senning Bulldog Clamp

with Cooley Jaws, adjustable closing pressure

Fig.	Art.-No.	Length mm/"
H	<b>20-5010</b>	45/1½

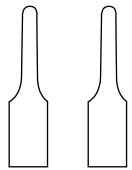


## Micro Clamps

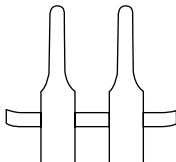
Size	Single Clamps (pair)		Approximator without Frame, movable		Approximator with Frame, movable		Size mm	Length mm
	A	V	A	V	A	V		
1	75-0397	75-0396	75-0415	75-0414	75-0409	75-0408	0.4 - 1.0	8
2	75-0399	<b>75-0398</b>	75-0417	75-0416	75-0411	75-0410	0.6 - 1.5	11
3	75-0401	75-0400	75-0419	75-0418	75-0413	75-0412	1.0 - 2.2	17
4	75-0323	75-0325	-	75-0326	-	-	1.5 - 3.5	24
5	-	-	-	75-0287	-	-	2.0 - 5.0	36

## Black

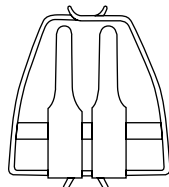
Size	Single Clamps (pair)		Approximator without Frame, movable		Approximator with Frame, movable		Size mm	Length mm
	A	V	A	V	A	V		
1	<b>75-0461</b>	75-0462	75-0479	75-0480	75-0473	75-0474	0.4 - 1.0	8
2	75-0463	75-0464	75-0481	75-0482	75-0475	75-0476	0.6 - 1.5	11
3	75-0465	75-0466	75-0483	75-0484	75-0477	75-0478	1.0 - 2.2	17
4	-	75-0329	-	75-0330	-	-	1.5 - 3.5	24
5	-	75-0327	-	75-0328	-	-	2.0 - 5.0	36



Single Clamps



Approximator



Approximator with Frame

A = for arteries, V = for veins

## Applying Forceps

## with catch

for Size	Art.-No.	Length mm/''
1-3	75-0071	140/5½
4-5	75-0073	140/5½

## without catch

for Size	Art.-No.	Length mm/''
1-3	<b>75-0072</b>	140/5½
4-5	75-0074	140/5½



bold = shown on page 248/249



41-5114.TI

41-5500  
Applying Forceps Standard

Not for implantation

## Yasargil-type Standard

Stainless Steel

Fig.	Art.-No.	Max. Opening mm	Force g
A	41-5012	7.0	180
B	41-5014	6.8	180
C	41-5022	7.8	180
D	41-5024	7.5	180
E	41-5054	6.2	180
F	41-5112	7.0	90
G	41-5114	6.8	90
H	41-5116	6.1	110
I	41-5128	9.2	90
J	41-5130	8.7	110
K	41-5132	7.4	110
L	41-5134	11.4	110
M	41-5136	11.0	90

Titanium

Fig.	Art.-No.	Max. Opening mm	Force g
A	<a href="#">41-5012.TI</a>	7.0	180
B	<a href="#">41-5014.TI</a>	6.8	180
C	<a href="#">41-5022.TI</a>	7.8	180
D	<a href="#">41-5024.TI</a>	7.5	180
E	<a href="#">41-5054.TI</a>	6.2	180
F	<a href="#">41-5112.TI</a>	7.0	90
G	<a href="#">41-5114.TI</a>	6.8	90
H	<a href="#">41-5116.TI</a>	6.1	110
I	<a href="#">41-5128.TI</a>	9.2	90
J	<a href="#">41-5130.TI</a>	8.7	110
K	<a href="#">41-5132.TI</a>	7.4	110
L	<a href="#">41-5134.TI</a>	11.4	110
M	<a href="#">41-5136.TI</a>	11.0	90

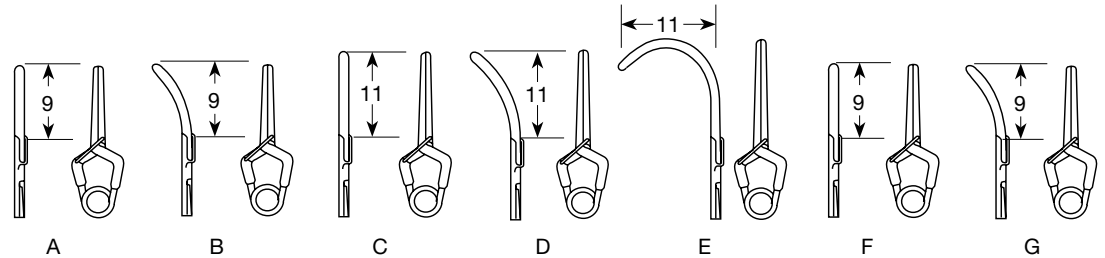
## Applying Forceps Standard



Fig.	Art.-No.	Length mm/''
T	41-5500	175/7

## Applying Forceps Mini

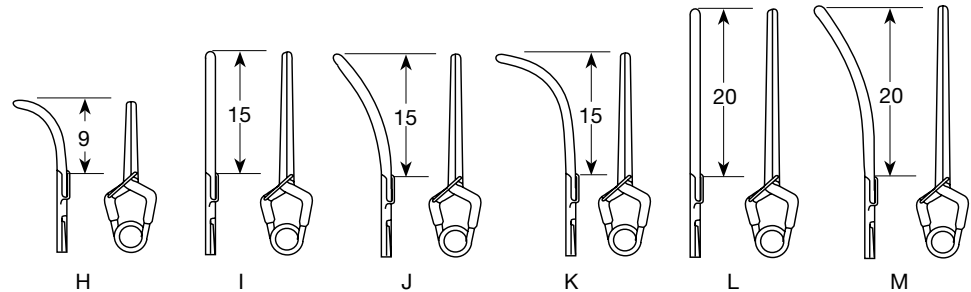
Art.-No.	Length mm/''
41-5501	175/7



## Mini

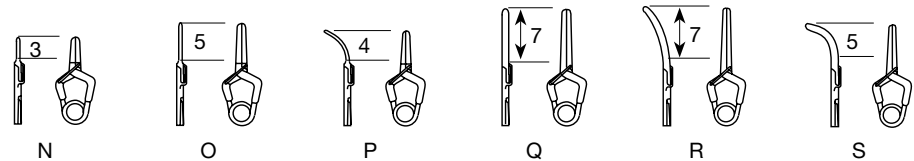
### Stainless Steel

Fig.	Art.-No.	Max. Opening mm	Force g
N	41-5300	3.3	90
O	41-5306	4.0	70
P	41-5308	3.8	70
Q	41-5320	4.6	70
R	41-5322	4.4	70
S	41-5324	4.0	70



### Titanium

Fig.	Art.-No.	Max. Opening mm	Force g
N	41-5300.TI	3.3	90
O	41-5306.TI	4.0	70
P	41-5308.TI	3.8	70
Q	41-5320.TI	4.6	70
R	41-5322.TI	4.4	70
S	41-5324.TI	4.0	70





41-5658



41-5657



Micro Clamps

GEISTER®



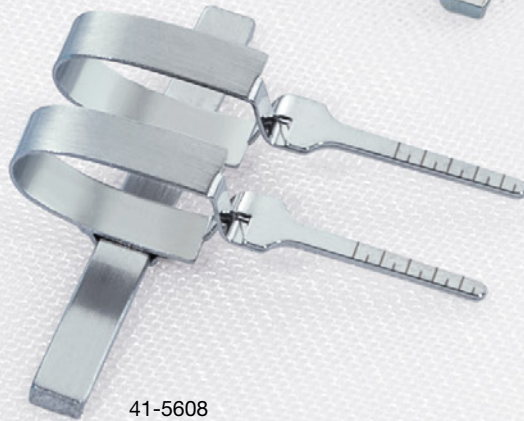
41-5613



41-5624



41-5604



41-5608

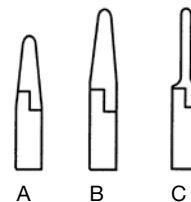


41-5612  
Biemer Applying Forceps



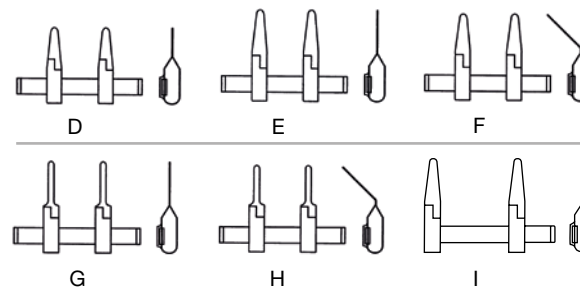
## Micro Clamps acc. to Biemer

Fig.	Art.-No.	Jaw Opening mm	Length of Jaws mm	Force g	for Ø mm
A	41-5600	4.0	6.0	30 - 40	0.5 - 2.0
B	41-5602	5.0	9.0	30 - 40	0.5 - 2.0
C	<b>41-5604</b>	5.0	9.0	20 - 25	0.5 - 2.0



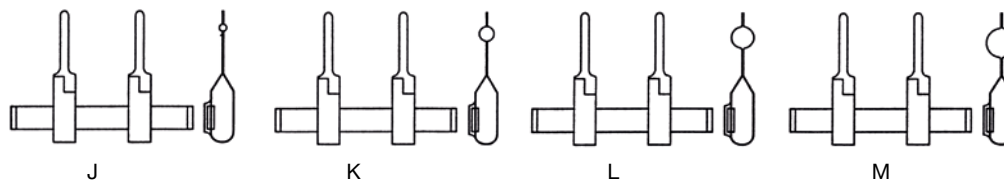
## Approximators acc. to Biemer-Mueller

Fig.	Art.-No.	Jaw Opening mm	Length of Jaws mm	Force g	for Ø mm
D	41-5605	4.0	6.0	25 - 30	0.5 - 2.0
E	41-5606	5.0	9.0	25 - 30	0.5 - 2.0
F	41-5607	5.0	9.0	25 - 30	0.5 - 2.0
G	<b>41-5608</b>	5.0	9.0	25 - 30	0.5 - 2.0
H	41-5609	5.0	9.0	25 - 30	0.5 - 2.0
I	<b>41-5613</b>	5.0	9.0	30 - 40	0.5 - 2.0



## Approximators acc. to Mueller

Fig.	Art.-No.	Diameter mm	Force g	for Ø mm
J	41-5621	1.0	25 - 30	0.5 - 2.0
K	41-5622	2.0	25 - 30	0.5 - 2.0
L	41-5623	3.0	25 - 30	0.5 - 2.0
M	<b>41-5624</b>	4.0	25 - 30	0.5 - 2.0



## Applying Forceps

without catch

Art.-No.	Length mm/''
41-5610	145/5¾

with catch

Fig.	Art.-No.	Length mm/''
N	<b>41-5612</b>	145/5¾





## Micro Clamps acc. to Mehdorn

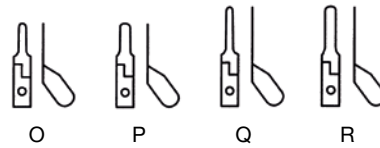


Fig.	Art.-No.	Length of Jaws mm	Force g	for Ø mm
O	41-5665	4.0×1.0	10 - 15	0.5 - 1.5
P	41-5666	4.0×1.4	15 - 20	0.5 - 1.5
Q	41-5667	6.0×1.0	10 - 15	0.5 - 1.5
R	41-5668	6.0×1.4	15 - 20	0.5 - 1.5

## Applying Forceps

for Mehdorn Clamps  
without catch

Art.-No.	Length mm/"	Description
41-5669	145 / 5¾	The position of the clamp in the applying forceps can be varied.



## Micro Clamps acc. to Mueller

straight

Fig.	Art.-No.	Force g
S	41-5650	50
S	41-5651	80

curved

Fig.	Art.-No.	Force g
T	41-5652	50
T	41-5653	80

Tips curved

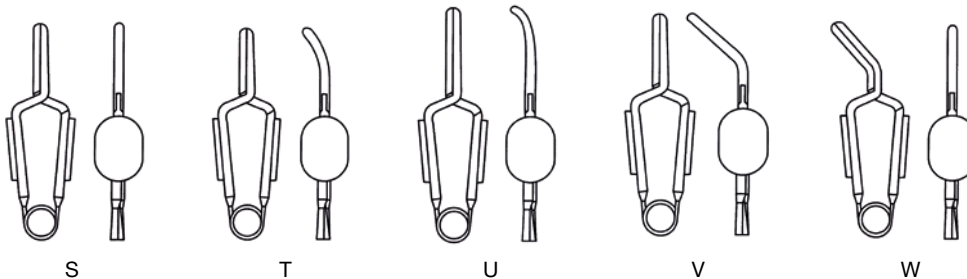
Fig.	Art.-No.	Force g
U	41-5654	50
U	41-5655	80

angled

Fig.	Art.-No.	Force g
V	41-5656	50
V	<b>41-5657</b>	80

knee-bent

Fig.	Art.-No.	Force g
W	<b>41-5658</b>	50
W	41-5659	80

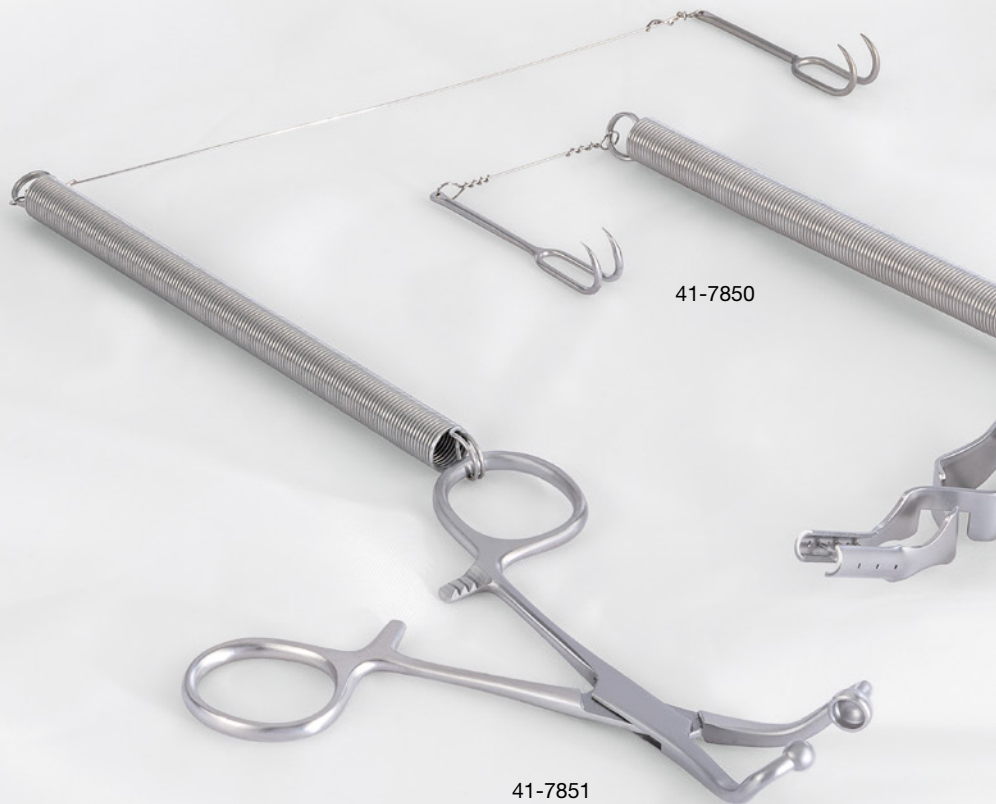




41-7995



41-7991



41-7850

41-7851



## Yasargil-type

### Galea Hook

Art.-No.	Length mm / "	Width mm	Description
<b>41-7850</b>	320 / 12½	7	
41-7852	410 / 16¼	12	
<b>41-7851</b>	440 / 17¼		with clamp, 115 mm with socket and ball

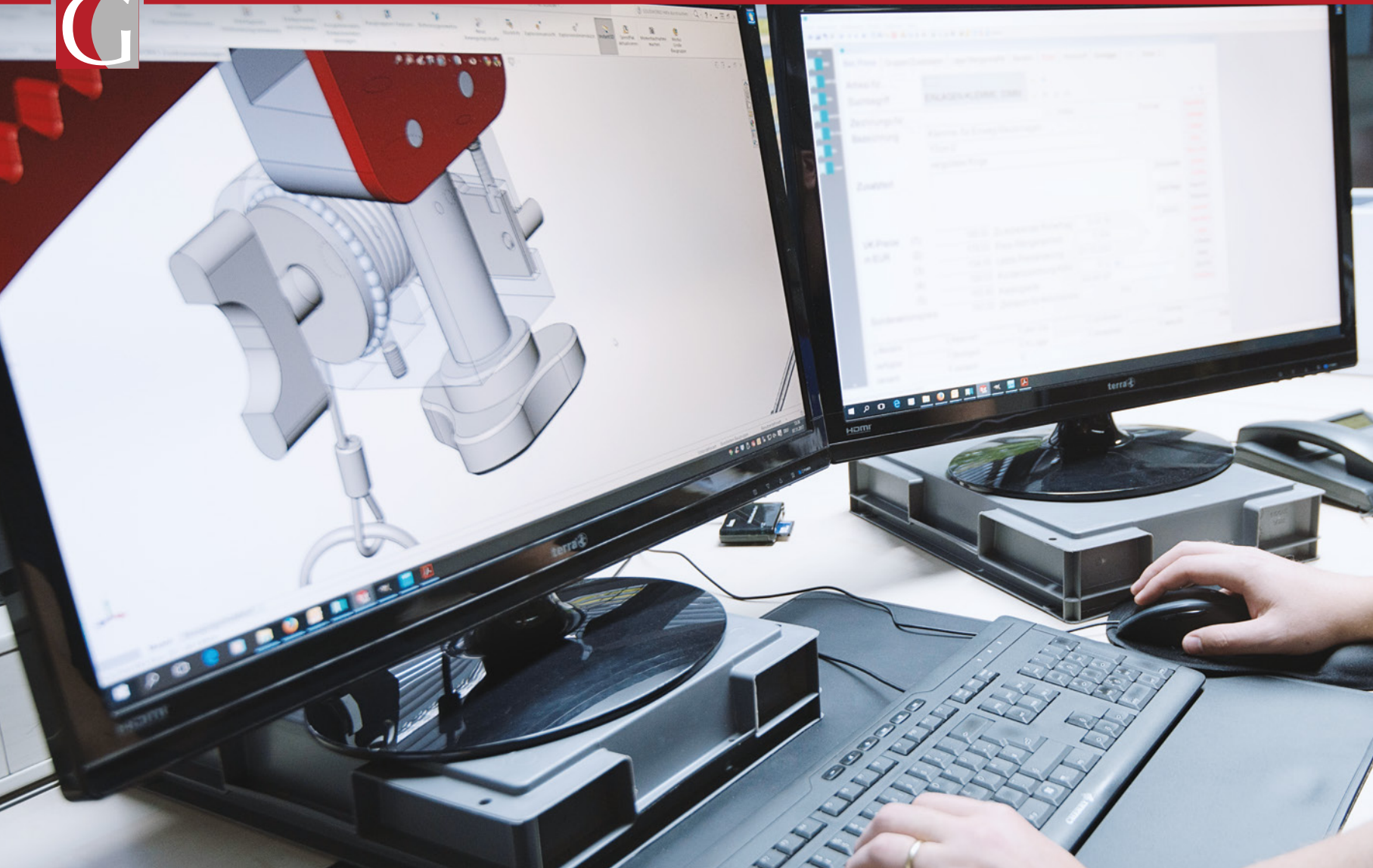
## Raney


### Applying and Removing Forceps

Art.-No.	Length mm / "
<b>41-7995</b>	160 / 6¼

## Raney Clamp

Art.-No.	Description
<b>41-7991</b>	pack of 12 pcs.





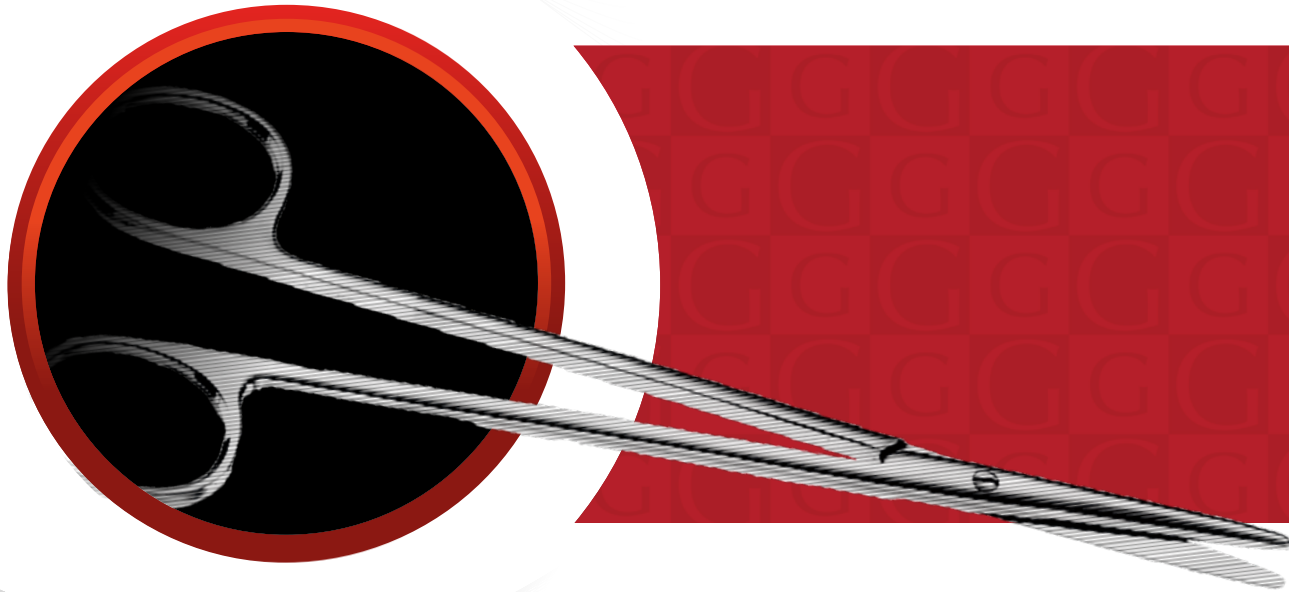
# R&D SOLUTIONS

## **With inspiration, motivation, and a pinch of creativity.**

Greatest precision, best trueness and highest accuracy ensures the quality and reliability of care in surgery, but also in the fields of metrology, engineering, automotive and aviation and aerospace technology. Our qualified technicians are efficiently working with the latest machinery including advanced 5-axis CNC machining centers, which is also meet the requirements for the most complex parts, supported by 3D CAD design software (SolidWorks), 2D CAD

design software, CAM / CIM software (SolidCAM iMachining) and rapid prototyping.

Benefit from our experience with various materials and our expertise in the field of surface treatments. With over 35 years of production experience, we can implement your projects effectively and quickly.



Scissors | Scalpel Handles | Knives | Saws | Drills | Burrs



Ligature Scissors with TC-edges



26-0116

26-0502G



26-0500



26-0119







26-0118



## Toennis-Adson TC

Extra delicate scissors with slightly curved edges

superfino Art.-No.	fino Art.-No.	Length mm/"
<b>26-0116</b>	<b>26-0118</b>	175/6¾
-	26-0118.23	230/9

## Metzenbaum TC

S-curved SH/BL

Art.-No.	Length mm/"
<b>26-0119</b>	145/5¾

## Ligature TC

Designed for cutting of suture materials. Wave-cut prevents slipping out.

y-shanks Art.-No.	straight shanks Art.-No.	Length mm/"
26-0498	-	140/5½
-	26-0500G	175/6¾
<b>26-0500</b>	-	180/7
26-0501	26-0501G	230/9
26-0502	<b>26-0502G</b>	250/10



Scissors with TC-edges



26-0103



26-0122



26-0123

Scissors with TC-edges

GEISTER®

26-0102



## Metzenbaum TC

straight Art.-No.	curved Art.-No.	Length mm/"
26-0100	26-0101	140/5½
<b>26-0102</b>	<b>26-0103</b>	180/7
26-0104	26-0105	200/8

## Nelson Metzenbaum TC

straight Art.-No.	curved Art.-No.	Length mm/"
26-0106	26-0107	230/9
26-0108	26-0109	250/10
26-0110	26-0111	280/11
26-0112	26-0113	300/12
-	26-0115	360/14

## Metzenbaum Fino TC

delicate

straight Art.-No.	curved Art.-No.	Length mm/"
26-0120	26-0121	140/5½
<b>26-0122</b>	<b>26-0123</b>	180/7
26-0124	26-0125	200/8
26-0126	26-0127	230/9
-	26-0129	260/10¼
-	26-0131	280/11

bold = shown



Scissors with TC-edges



26-0011

26-0187



26-0182



26-0014



blunt/blunt



sharp/blunt



sharp/sharp



## Standard TC

### straight

blunt/blunt Art.-No.	sharp/blunt Art.-No.	sharp/sharp Art.-No.	Length mm/"
26-0010	<b>26-0011</b>	26-0012	145/5¾

### curved

blunt/blunt Art.-No.	sharp/blunt Art.-No.	sharp/sharp Art.-No.	Length mm/"
26-0013	<b>26-0014</b>	26-0015	145/5¾

## Metzenbaum Fino TC

### pointed

straight Art.-No.	curved Art.-No.	Length mm/"
26-0180	26-0181	140/5½
<b>26-0182</b>	26-0183	180/7
26-0184	26-0185	200/8
26-0186	<b>26-0187</b>	230/9



Scissors with TC-edges



26-0026

26-0042

26-0022

26-0041

Scissors with TC-edges

GEISTER®



## Mayo TC

straight Art.-No.	curved Art.-No.	Length mm/"
26-0020	26-0021	140/5½
<b>26-0022</b>	26-0023	170/6¾
26-0025	<b>26-0026</b>	230/9

## Mayo-Lexer TC

straight Art.-No.	curved Art.-No.	Length mm/"
26-0040	<b>26-0041</b>	160/6¼
<b>26-0042</b>	26-0043	210/8¼

**bold** = shown



Scissors with TC-edges



26-0156



26-0151



26-0155



26-0160



26-0140





## Universal TC Wire Cutter

Art.-No.	Length mm/"
<b>26-0140</b>	120/4¾

## Iris TC

straight Art.-No.	curved Art.-No.	Length mm/"
26-0150	<b>26-0151</b>	110/4½

## Strabismus TC

straight Art.-No.	curved Art.-No.	Length mm/"
<b>26-0155</b>	<b>26-0156</b>	110/4½

## Goldmann-Fox TC

straight Art.-No.	curved Art.-No.	Length mm/"
<b>26-0160</b>	26-0161	130/5



26-6217.ST

26-6132.ST

26-6201.ST

26-6148.ST



### Experience the ultimate cutting performance!

Precision cutting down to the very millimetre, an indulgence of skill and craftsmanship. The most capable and distinctive scissors available to surgeons worldwide. Profoundly sharp and crafted to serve you for a lifetime.

- top class product with special construction
- ultra-sharp edges for ultimate cutting performance
- smooth cutting action
- for fine as well as coarse tissue
- special hardened for maximum durability and long lasting sharpness
- one shank gold plated for identification
- aseptic surface finish



### Mayo-Style "ST"

straight Art.-No.	curved Art.-No.	Length mm / "
<b>26-6132.ST</b>	26-6133.ST	170 / 6¾
26-6134.ST	26-6135.ST	190 / 7½

### Toennis-Adson-Superfino "ST"

curved Art.-No.	Length mm / "
<b>26-6148.ST</b>	170 / 6¾

### Metzenbaum "ST"

straight Art.-No.	curved Art.-No.	Length mm / "
26-6190.ST	26-6200.ST	140 / 5½
26-6191.ST	<b>26-6201.ST</b>	180 / 7
26-6192.ST	26-6202.ST	200 / 8
26-6193.ST	26-6203.ST	230 / 9
26-6194.ST	26-6204.ST	250 / 10

### Metzenbaum Fino "ST"

straight Art.-No.	curved Art.-No.	Length mm / "
26-6208.ST	26-6209.ST	140 / 5½
26-6210.ST	26-6215.ST	180 / 7
26-6211.ST	26-6216.ST	200 / 8
26-6212.ST	<b>26-6217.ST</b>	230 / 9
26-6213.ST	26-6218.ST	250 / 10



26-6252.ST



26-6691.ST



26-6172.ST



26-6161.ST



**Experience the ultimate cutting performance!**

Precision cutting down to the very millimetre, an indulgence of skill and craftsmanship. The most capable and distinctive scissors available to surgeons worldwide. Profoundly sharp and crafted to serve you for a lifetime.



- top class product with special construction
- ultra-sharp edges for ultimate cutting performance
- smooth cutting action
- for fine as well as coarse tissue
- special hardened for maximum durability and long lasting sharpness
- one shank gold plated for identification
- aseptic surface finish

**Stevens "ST"**

straight Art.-No.	curved Art.-No.	Length mm / "
26-6160.ST	<b>26-6161.ST</b>	125/5

**Iris "ST"**

straight Art.-No.	curved Art.-No.	Length mm / "
26-6686.ST	26-6687.ST	105/4
26-6688.ST	26-6689.ST	110/4½
26-6690.ST	<b>26-6691.ST</b>	125/5

**Reynolds "ST"**

(Metzenbaum Tenotomy)

straight Art.-No.	curved Art.-No.	Length mm / "
26-6240.ST	26-6250.ST	130/5
26-6242.ST	<b>26-6252.ST</b>	150/6
26-6244.ST	26-6254.ST	180/7
26-6246.ST	26-6256.ST	200/8
26-6248.ST	26-6258.ST	230/9

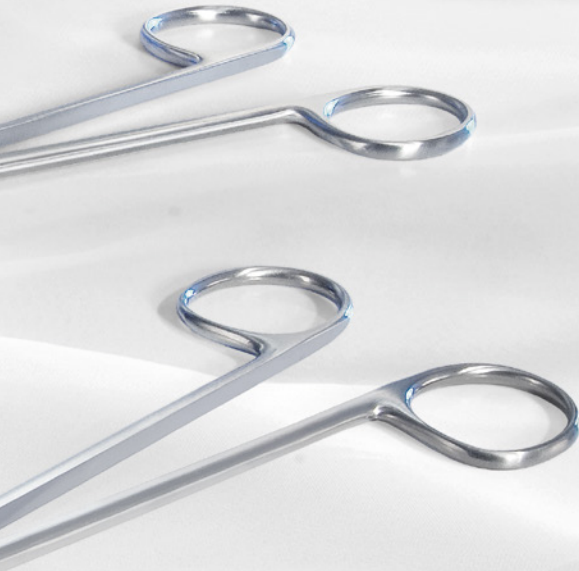
**Ragnell-Kilner "ST"**

curved Art.-No.	Length mm / "
26-6170.ST	125/5
<b>26-6172.ST</b>	150/6
26-6174.ST	180/7
26-6176.ST	200/8



Dissecting Scissors





## Metzenbaum

straight Art.-No.	curved Art.-No.	Length mm/"
<b>26-6190</b>	26-6200	140/5½
26-6190.SC	<b>26-6200.SC</b>	140/5½
26-6191	<b>26-6201</b>	180/7
26-6191.SC	<b>26-6201.SC</b>	180/7
26-6192	26-6202	200/8
26-6192.SC	<b>26-6202.SC</b>	200/8
26-6193	26-6203	230/9
26-6193.SC	<b>26-6203.SC</b>	230/9
26-6194	26-6204	250/10
26-6194.SC	<b>26-6204.SC</b>	250/10
26-6195	26-6205	280/11
26-6195.SC	<b>26-6205.SC</b>	280/11
26-6196	26-6206	310/12¼
26-6196.SC	<b>26-6206.SC</b>	310/12¼

## Metzenbaum Fino

S-curved

Art.-No.	Length mm/"
26-6225	180/7
26-6225.SC	180/7
26-6226	200/8
26-6226.SC	200/8
26-6227	230/9
26-6227.SC	230/9
26-6228	250/10
26-6228.SC	250/10
26-6229	280/11
26-6229.SC	280/11

## Metzenbaum Fino

delicate

straight Art.-No.	curved Art.-No.	Length mm/"
26-6208	26-6209	140/5½
26-6208.SC	<b>26-6209.SC</b>	140/5½
<b>26-6210</b>	<b>26-6215</b>	180/7
26-6210.SC	<b>26-6215.SC</b>	180/7
26-6211	26-6216	200/8
26-6211.SC	<b>26-6216.SC</b>	200/8
26-6212	26-6217	230/9
26-6212.SC	<b>26-6217.SC</b>	230/9
26-6213	26-6218	250/10
26-6213.SC	<b>26-6218.SC</b>	250/10
26-6214	26-6219	280/11
26-6214.SC	<b>26-6219.SC</b>	280/11

pointed tip

straight Art.-No.	curved Art.-No.	Length mm/"
26-6230	26-6235	180/7
26-6230.SC	<b>26-6235.SC</b>	180/7
26-6231	26-6236	200/8
26-6231.SC	<b>26-6236.SC</b>	200/8
26-6232	26-6237	230/9
26-6232.SC	<b>26-6237.SC</b>	230/9



Dissecting Scissors



26-6104.SC

26-6140.SC



26-6114



26-6141



26-6840





### Super Cut

Precision cutting down to the very millimetre, an indulgence of skill and craftsmanship. The most capable and distinctive scissors available to surgeons worldwide. Profoundly sharp and crafted to serve you for a lifetime.

### Mayo

straight Art.-No.	curved Art.-No.	Length mm / "
26-6100	26-6110	145/5½
<b>26-6100.SC</b>	<b>26-6110.SC</b>	145/5½
26-6102	26-6112	155/6¼
<b>26-6102.SC</b>	<b>26-6112.SC</b>	155/6¼
26-6104	<b>26-6114</b>	170/6¾
<b>26-6104.SC</b>	<b>26-6114.SC</b>	170/6¾
26-6106	26-6116	210/8¼
<b>26-6106.SC</b>	<b>26-6116.SC</b>	210/8¼
26-6108	26-6118	230/9
<b>26-6108.SC</b>	<b>26-6118.SC</b>	230/9

### Mayo-Lexer

straight Art.-No.	curved Art.-No.	Length mm / "
26-6140	<b>26-6141</b>	160/6¼
<b>26-6140.SC</b>	<b>26-6141.SC</b>	160/6¼
26-6142	26-6143	210/8¼

### Allaines

fine Art.-No.	Length mm / "
26-6840	180/7
26-6841	200/8
26-6842	230/9



26-6024.SC

26-6046

26-6875

26-6033



blunt/blunt



sharp/blunt



sharp/sharp

### Super Cut

Precision cutting down to the very millimetre, an indulgence of skill and craftsmanship. The most capable and distinctive scissors available to surgeons worldwide. Profoundly sharp and crafted to serve you for a lifetime.

### Standard\*

#### straight

blunt/blunt Art.-No.	sharp/blunt Art.-No.	sharp/sharp Art.-No.	Length mm / "
26-6020	26-6040	26-6060	105 / 4
26-6022	26-6042	26-6062	115 / 4½
<b>26-6024</b>	26-6044	26-6064	130 / 5
26-6026	<b>26-6046</b>	26-6066	145 / 5½
26-6028	26-6048	26-6068	155 / 6¼
26-6030	26-6050	26-6070	165 / 6½
26-6032	26-6052	26-6072	175 / 6¾
26-6034	26-6054	26-6074	185 / 7¼
26-6036	26-6056	26-6076	200 / 8

#### curved

blunt/blunt Art.-No.	sharp/blunt Art.-No.	sharp/sharp Art.-No.	Length mm / "
26-6021	26-6041	26-6061	105 / 4
26-6023	26-6043	26-6063	115 / 4½
26-6025	26-6045	26-6065	130 / 5
26-6027	26-6047	26-6067	145 / 5½
26-6029	26-6049	26-6069	155 / 6¼
26-6031	26-6051	26-6071	165 / 6½
<b>26-6033</b>	26-6053	26-6073	175 / 6¾
26-6035	26-6055	26-6075	185 / 7¼
26-6037	26-6057	26-6077	200 / 8

### Deaver\*

#### straight

sharp/blunt Art.-No.	sharp/sharp Art.-No.	Length mm / "
<b>26-6875</b>	26-6873	145 / 5¾

#### curved

sharp/blunt Art.-No.	sharp/sharp Art.-No.	Length mm / "
26-6876	26-6874	145 / 5¾

■ \* Super Cut = Also available with Supercut on request (add ".SC" behind the article no.)

**bold** = shown



Dissecting Scissors



26-6170

26-6250

26-7301

26-6252.SC

26-6255.SC

26-7300



26-6238

26-6239



26-7301 u. 26-7300

## Super Cut

Precision cutting down to the very millimetre, an indulgence of skill and craftsmanship. The most capable and distinctive scissors available to surgeons worldwide. Profoundly sharp and crafted to serve you for a lifetime.

## Ragnell-Kilner

curved Art.-No.	Length mm/"
<b>26-6170</b>	125/5
<b>26-6170.SC</b>	125/5
26-6172	150/6
<b>26-6172.SC</b>	150/6
26-6174	180/7
<b>26-6174.SC</b>	180/7
26-6176	200/8
<b>26-6176.SC</b>	200/8

## Reynolds

regular tip

curved Art.-No.	Length mm/"	Description
<b>26-6250</b>	135/5¼	
<b>26-6250.SC</b>	135/5¼	
26-6252	150/6	
<b>26-6252.SC</b>	150/6	
26-6254	180/7	
<b>26-6254.SC</b>	180/7	
26-6255	180/7	fine
<b>26-6255.SC</b>	180/7	fine
26-6256	200/8	
<b>26-6256.SC</b>	200/8	
26-6258	230/9	
<b>26-6258.SC</b>	230/9	

## Jameson

delicate tip

curved Art.-No.	Length mm/"	Description
<b>26-6239</b>	150/6	
<b>26-6239.SC</b>	150/6	
<b>26-6238</b>	155/6¼	fine
<b>26-6238.SC</b>	155/6¼	fine



## Boehler

Blades cutting on both sides

straight sharp/sharp Art.-No.	curved sharp/sharp Art.-No.	Length mm/"
<b>26-7300</b>	<b>26-7301</b>	150/6

■ SC = Super Cut

**bold** = shown



Dissecting Scissors



26-6311 u. 26-6316



26-6311

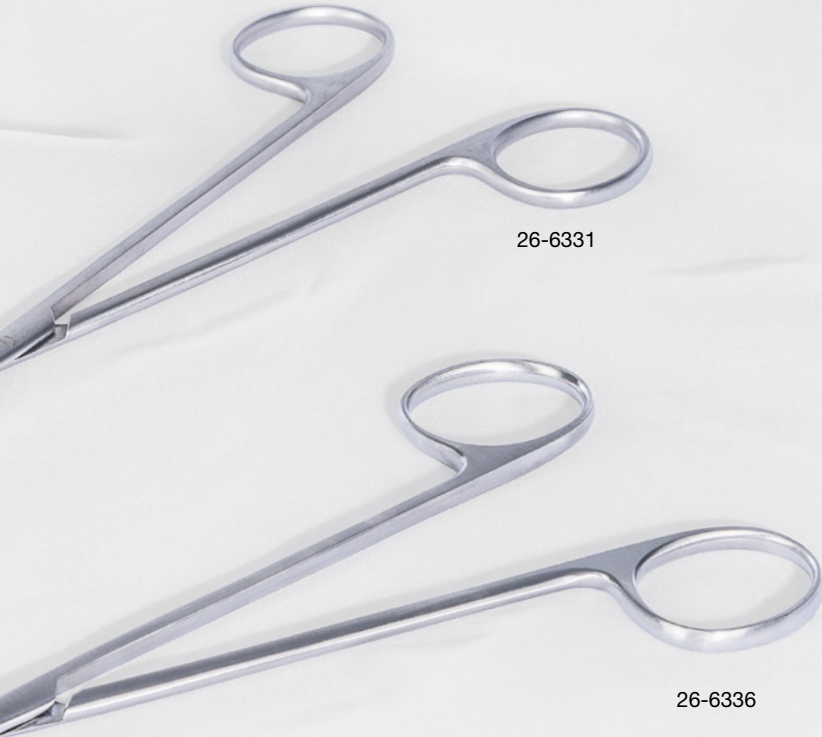


26-6316



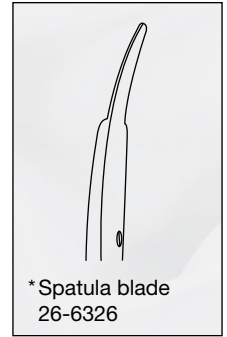
26-6321





26-6331

26-6336



\*Spatula blade  
26-6326

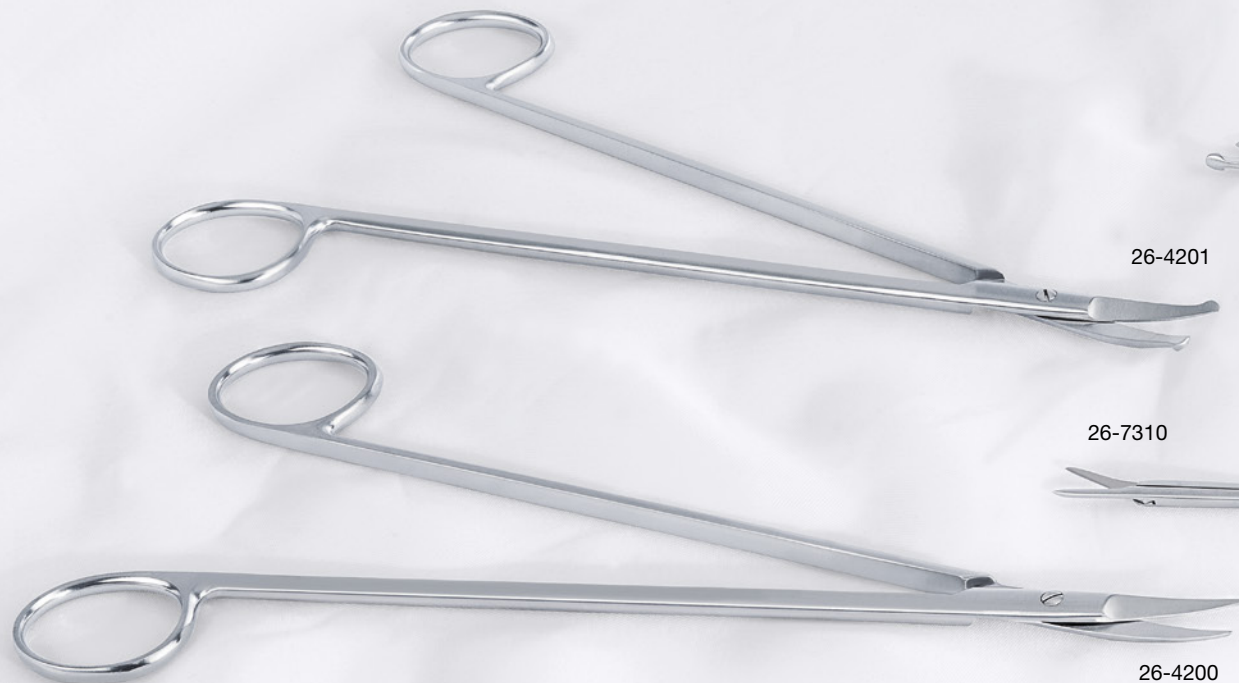
## Streli

curved

Art.-No.	Length mm / "	Description
<b>26-6311</b>	150 / 6	sharp/sharp, fine blades and speaded shanks
<b>26-6316</b>	150 / 6	sharp/blunt, fine blades and speaded shanks
<b>26-6321</b>	150 / 6	blunt/blunt tip 2 mm
26-6322	150 / 6	blunt/blunt tip 2.5 mm
26-6326	150 / 6	spatula blade*
<b>26-6331</b>	150 / 6	blunt/blunt tip 1 mm
<b>26-6336</b>	150 / 6	sharp/sharp
26-6341	150 / 6	blunt/blunt 2 mm



Scissors



26-4201

26-7310

26-4200



26-4199



26-4210





## Schmieden-Taylor

**Art.-No.**    **Length mm / "**

**26-4210**    155 / 6¼

## Frazier

**Art.-No.**    **Length mm / "**

**26-4199**    170 / 6¾

## Strully

**Art.-No.**    **Length mm / "**

**26-4200**    200 / 8

with button

**Art.-No.**    **Length mm / "**

**26-4201**    200 / 8

## Olivecrona

**Art.-No.**    **Length mm / "**

**26-7310**    215 / 8½



Scalpel Handles



16-0023.GB

16-0004

41-6019

16-0190

16-0007

16-0100

16-0013

16-0003



## Scalpel Handles

for Blades 16-2018 until 16-2036

Art.-No.	Length mm/"	description
<b>16-0004</b>	135/5¼	Fig. 4
16-0014	210/8¼	Fig. 4L, long

## Scalpel Handles

for Blades 16-2009.E until 16-2017.E

Art.-No.	Length mm/"	description
<b>16-0003</b>	125/5	Fig. 3
<b>16-0013</b>	125/5	Fig. 3, with scale
16-0023	210/8¼	Fig. 3L, long,
<b>16-0023.GB</b>	200/8	Fig. 3L, long, angled up
<b>16-0007</b>	160/6¼	Fig. 7L, long
16-0017	120/4¾	Fig. 7K, short
<b>16-0100</b>	150/6	round handle, Fig. 3
16-0102	145/5¾	round handle, Fig. 3, angled up
<b>16-0190</b>	135/5¼	Barron, Fig. 3
<b>41-6019</b>	210/8¼	Landolt, Fig. 3

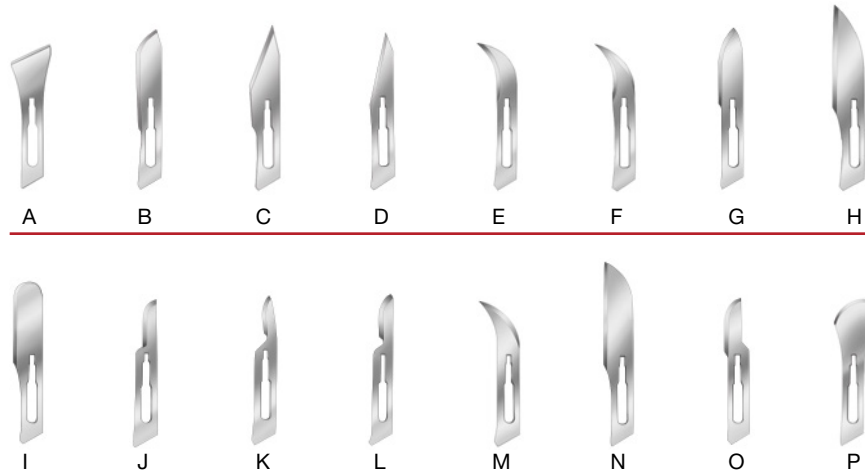


## Scalpel Blades

sterile, pack of 100 Pieces

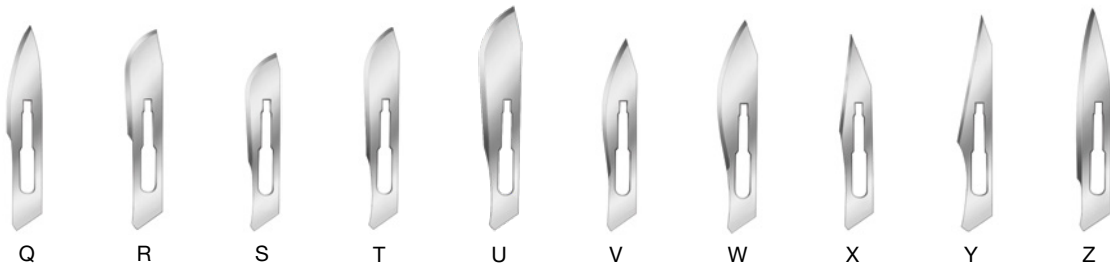
for handle Fig. 3

Fig.	Art.-No.	description
A	16-2009.E	# 9E
B	16-2010	# 10
C	16-2010.A	# 10A
D	16-2011	# 11
E	16-2012	# 12
F	16-2012.D	# 12D
G	16-2013	# 13
H	16-2014	# 14
I	16-2014.E	# 14E
J	16-2015	# 15
K	16-2015.C	# 15C
L	16-2015.E	# 15E
M	16-2016	# 16
N	16-2016.E	# 16E
O	16-2017	# 17
P	16-2017.E	# 17E



for handle Fig. 4

Fig.	Art.-No.	description
Q	16-2018	# 18
R	16-2019	# 19
S	16-2020	# 20
T	16-2021	# 21
U	16-2022	# 22
V	16-2023	# 23
W	16-2024	# 24
X	16-2025	# 25
Y	16-2034	# 34
Z	16-2036	# 36





## Microsurgical Knife

Art.-No.	Description
16-2070	15° Microsurgical Knife, blade/tip pack of 6 pieces, sterile
16-2075	Crescent Microsurgical Knife, straight 2 mm, blade/tip pack of 6 pieces, sterile
16-0032	Fairgrip™ultra Handle for disposable knives, 18 cm, Aluminium
16-0031	Handle for disposable knives, 18 cm Aluminium
16-0030	Handle for disposable knives, 18 cm Stainless Steel
16-0030.DF*	PANDOR™ Handle for disposable knives, 18 cm, stainless steel
16-5050	Handle for disposable knives, 9.5 cm



\* In the attractive PANDORTM Black & Gold Edition (extra charge applies)



41-6014

41-6012

16-0034

16-0033



16-1016.TI



## Diamond Knife

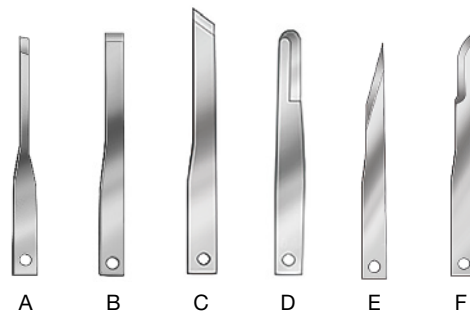
Titanium handle

Art.-No.	Length mm/"	description
<b>16-1016.TI</b>	205/8	30° single cutting

## Scalpel Handles

for Micro surgical blades

Art.-No.	Length mm/"	description
<b>16-0033</b>	155/6¼	
16-0033.10	100/4	
<b>16-0034</b>	180/7	
<b>41-6012</b>	210/8¼	Landolt
<b>41-6014</b>	250/10	Landolt



## Micro Blades

sterile, pack of 10 pieces

Fig.	Art.-No.	description
A	16-2061	# 61
B	16-2062	# 62
C	16-2062.S	# 62S
D	16-2064	# 64
E	16-2065	# 65
F	16-2067	# 67



18-9800.10



16-1005



26-9110



26-9105





26-9109



## Toennis

Knife

Art.-No.	Length mm/"
<b>16-1005</b>	190/7½

## Redon Needle

Art.-No.	Description
18-9800.08	Ch. 8
<b>18-9800.10</b>	Ch. 10
18-9800.12	Ch. 12
18-9800.14	Ch. 14
18-9800.16	Ch. 16
18-9800.18	Ch. 18

## Gigli

Introducer Guide

Art.-No.	Length mm/"
<b>26-9105</b>	330/12¾

## Gigli

Wire Saw Handle

Art.-No.	Length mm/"
<b>26-9109</b>	

## Gigli

Wire Saw

Art.-No.	Length mm/"
<b>26-9110</b>	300/12
26-9111	400/16
26-9112	500/20
26-9113	600/24
26-9114	700/28



Drills and Burrs



## Cushing

### Perforation-Driller

Art.-No.	Ø mm
<b>39-4010</b>	10
<b>39-4011</b>	13
<b>39-4012</b>	14

### Ball-Driller

Art.-No.	Ø mm
<b>39-4015</b>	10
<b>39-4016</b>	15
<b>39-4017</b>	20

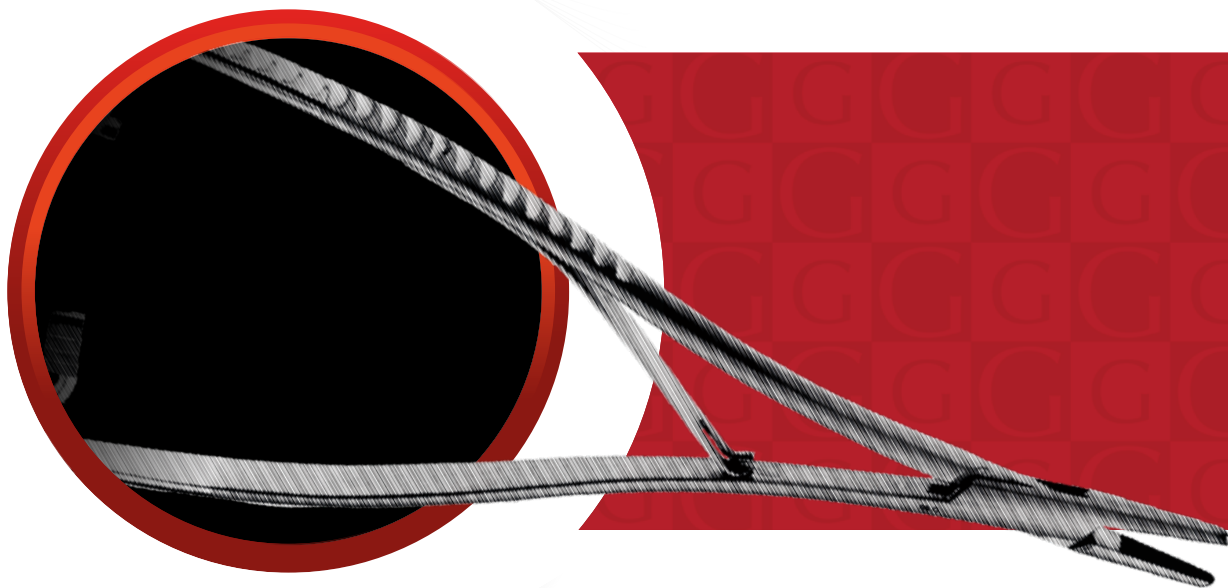
## Hudson Set

Art.-No.	Qty.	Description
<b>39-4000</b>	<b>Consisting of</b>	
<b>39-4000.GC</b>	1	Brace Handle with snap-lock chuck
<b>39-4001</b>	1	Extension
<b>39-4002</b>	1	Ø 9 mm, Length 103 mm/4"
<b>39-4003</b>	1	Ø 14 mm, Length 270 mm/
<b>39-4004</b>	1	Ø 16 mm, Length 95 mm/3¾"
<b>39-4005</b>	1	Ø 22 mm

## Hudson

### Drill

Art.-No.	Ø mm	Description
<b>39-4009</b>	2	Adson Drill
<b>39-4018</b>	13	McKenzie Perforator Drill
<b>39-4019</b>	17	D'Errico Enlarging Burr





**Needle Holders**



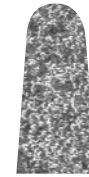
Needle Holders with TC-Inserts





## TC-Insert Styles

Serration pitch



**Smooth** Ⓢ  
**Description**  
 0 teeth PSI



**Micro** Ⓜ

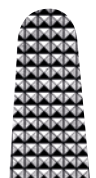
**Description**  
 16000 teeth PSI



**Width mm**  
 0.2 – 0.3

**Fine** ⓕ

**Description**  
 1500 teeth PSI



**Width mm**  
 0.65

**Standard** Ⓝ

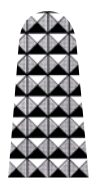
**Description**  
 2600 teeth PSI



**Width mm**  
 0.5

**Coarse** Ⓒ

**Description**  
 1500 teeth PSI



**Width mm**  
 0.65



Needle Holders



24-0360

24-0132

24-0350

24-0311



## DeBakey-type

Fig.	Art.-No.	Length mm/"	Insert/Tip mm
A	<b>24-0360</b>	180/7	Ⓕ 1.5
A	24-0361	200/8	Ⓕ 1.5
A	24-0362	230/9	Ⓕ 1.5
A	24-0363	260/10¼	Ⓕ 1.5
A	24-0364	300/11¾	Ⓕ 1.5



A

## Titanium

Fig.	Art.-No.	Length mm/"	Insert/Tip mm
A	<b>24-0360.TI</b>	180/7	Ⓕ 1.5
A	<b>24-0361.TI</b>	200/8	Ⓕ 1.5
A	<b>24-0363.TI</b>	250/10	Ⓕ 1.9

## Mayo-Hegar

Fig.	Art.-No.	Length mm/"	Insert/Tip mm
C	24-0129	140/5½	Ⓔ 2.0
C	24-0130	160/6¼	Ⓔ 2.5
C	24-0131	180/7	Ⓔ 2.7
C	<b>24-0132</b>	200/8	Ⓔ 2.7
C	24-0133	240/9½	Ⓔ 2.7
C	24-0134	260/10¼	Ⓔ 2.7
C	24-0135	300/11¾	Ⓔ 2.7



C

## Titanium

Fig.	Art.-No.	Length mm/"	Insert/Tip mm
C	<b>24-0130.TI</b>	160/6¼	Ⓔ 2.5
C	<b>24-0131.TI</b>	180/7	Ⓔ 2.7
C	<b>24-0132.TI</b>	200/8	Ⓔ 2.7

## Micro

(DeBakey-type delicate)

Fig.	Art.-No.	Length mm/"	Insert/Tip mm
B	<b>24-0350</b>	150/6	Ⓜ 1.2
B	24-0351	180/7	Ⓜ 1.2
B	24-0352	200/8	Ⓜ 1.2
B	24-0353	230/9	Ⓜ 1.2



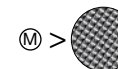
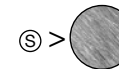
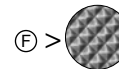
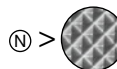
B

## Crile-Wood

Fig.	Art.-No.	Length mm/"	Insert/Tip mm
D	24-0310	150/6	Ⓕ 2.0
D	<b>24-0311</b>	180/7	Ⓕ 2.0
D	24-0312	200/8	Ⓕ 2.0
D	24-0313	230/9	Ⓕ 2.0
D	24-0314	260/10¼	Ⓕ 2.0
D	24-0315	300/11¾	Ⓕ 2.0
D	24-0308	150/6	Ⓢ 1.7



D



bold = shown



Needle Holders



24-0343

24-0348

24-0401

24-0414

24-0322

24-0446

## French Eye (Ryder) delicate



Fig.	Art.-No.	Length mm/"	Insert/Tip mm
A	24-0346	130/5	ⓕ 1.7
A	<b>24-0348</b>	130/5	Ⓢ 1.7
A	24-0347	150/6	ⓕ 1.7
A	24-0349	150/6	Ⓢ 1.7

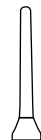
## French-Eye (Ryder)



Fig.	Art.-No.	Length mm/"	Insert/Tip mm
B	24-0341	160/6¼	ⓕ 2.1
B	24-0342	180/7	ⓕ 2.1
B	<b>24-0343</b>	200/8	ⓕ 2.1
B	24-0344	240/9½	ⓕ 2.1
B	24-0345	260/10¼	ⓕ 2.1

## Mini-Ryder

Fig.	Art.-No.	Length mm/"	Insert/Tip mm
C	24-0410	130/5	Ⓜ 1.2
C	24-0412	150/6	Ⓜ 1.2
C	24-0413	180/7	Ⓜ 1.2
C	<b>24-0414</b>	200/8	Ⓜ 1.2
C	24-0415	230/9	Ⓜ 1.2



Titanium			
Fig.	Art.-No.	Length mm/"	Insert/Tip mm
C	<b>24-0410.TI</b>	130/5	Ⓢ 1.2
C	<b>24-0412.TI</b>	160/6¼	Ⓢ 1.8
C	<b>24-0413.TI</b>	180/7	Ⓢ 1.8
C	<b>24-0414.TI</b>	200/8	Ⓢ 1.8

## Lemmon

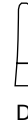


Fig.	Art.-No.	Length mm/"	Insert/Tip mm
D	24-0400	145/5¾	Ⓜ 1.6
D	<b>24-0401</b>	170/6¾	Ⓜ 1.6
D	24-0402	195/7¾	Ⓜ 1.6

## Eufrate-Pasqué

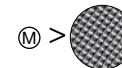
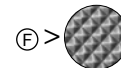
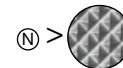
Fig.	Art.-No.	Length mm/"	Insert/Tip mm
E	24-0444	140/5½	Ⓜ 1.2
E	24-0445	150/6	Ⓜ 1.2
E	<b>24-0446</b>	180/7	Ⓜ 1.2
E	24-0447	200/8	Ⓜ 1.2
E	24-0439	140/5½	Ⓢ 1.2
E	24-0440	150/6	Ⓢ 1.2
E	24-0441	180/7	Ⓢ 1.2
E	24-0442	200/8	Ⓢ 1.2



## Ryder



Fig.	Art.-No.	Length mm/"	Insert/Tip mm
F	<b>24-0322</b>	180/7	ⓕ 1.7
F	24-0323	200/8	ⓕ 1.7
F	24-0324	230/9	ⓕ 1.7
F	24-0325	260/10¼	ⓕ 1.7



**bold = shown**



Needle Holders



24-0255

24-0258

24-0228

03-0270

24-1141



## Gianniini Heavy

with ratchet

Fig.	Art.-No.	Length mm/"	Insert/Tip mm
A	A	260/10¼	ⓕ 1.9



## Gianniini

with ratchet

Fig.	Art.-No.	Length mm/"	Insert/Tip mm
B	B	240/9½	Ⓜ 1.3

24-0423



## Castroviejo / Hepp-Scheidel

with ratchet

Fig.	Art.-No.	Length mm/"	Insert/Tip mm
C	24-0250	130/5	Ⓢ 1.2
C	24-0252	130/5	Ⓜ 1.2
C	<b>03-0270</b>	180/7	Ⓜ 1.2

## Diethrich Ryder

with ratchet

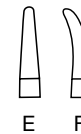
Fig.	Art.-No.	Length mm/"	Insert/Tip mm
D	24-0420	150/6	Ⓜ 1.2
D	24-0421	180/7	Ⓜ 1.2
D	24-0422	200/8	Ⓜ 1.2
D	<b>24-0423</b>	230/9	Ⓜ 1.2
D	24-0424	250/10	Ⓜ 1.4



## Fairgrip™ ultra

with ratchet

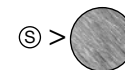
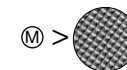
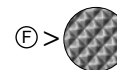
Fig.	Art.-No.	Length mm/"	Insert/Tip mm
E	24-1140	180/7	Ⓜ 1.2
E	24-1150	210/8¼	Ⓜ 1.2
E	24-1160	230/9	Ⓜ 1.2
F	<b>24-1141</b>	180/7	Ⓜ 1.2
F	24-1151	210/8¼	Ⓜ 1.2
F	24-1161	230/9	Ⓜ 1.2



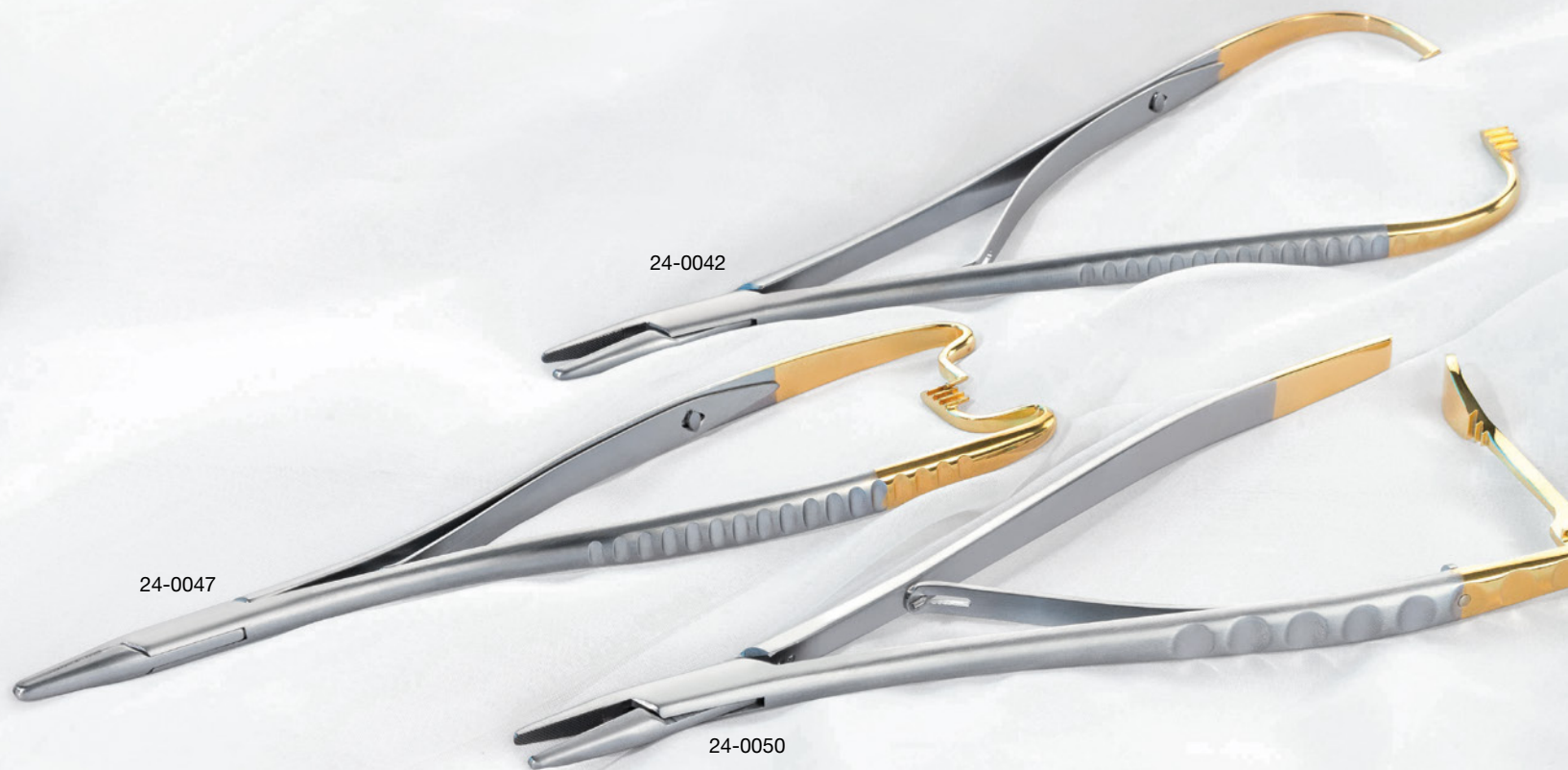
## Castroviejo

with ratchet

Fig.	Art.-No.	Length mm/"	Insert/Tip mm
G	24-0200	145/5¾	Ⓢ 1.2
G	24-0220	145/5¾	Ⓜ 1.2
H	24-0201	145/5¾	Ⓢ 1.2
H	24-0221	145/5¾	Ⓜ 1.2
G	24-0204	180/7	Ⓢ 1.2
G	24-0224	180/7	Ⓜ 1.2
H	24-0205	180/7	Ⓢ 1.2
H	24-0225	180/7	Ⓜ 1.2
G	24-0208	220/8¾	Ⓢ 1.2
G	<b>24-0228</b>	220/8¾	Ⓜ 1.2
H	24-0209	220/8¾	Ⓢ 1.2
H	24-0229	220/8¾	Ⓜ 1.2



**bold = shown**



24-0042

24-0047

24-0050



A

## Hoesel (Zweifel)

Fig.	Art.-No.	Length mm/"	Insert/Tip mm
A	<b>24-0050</b>	200/8	Ⓝ 2.9



B

## Mathieu

Fig.	Art.-No.	Length mm/"	Insert/Tip mm
B	24-0040	140/5½	ⓔ 2.4
B	24-0041	170/6¾	Ⓝ 2.4
B	<b>24-0042</b>	200/8	Ⓝ 2.4

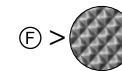
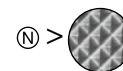


C

## Mathieu

Internal ratchet

Fig.	Art.-No.	Length mm/"	Insert/Tip mm
C	24-0046	170/6¾	Ⓝ 2.9
C	<b>24-0047</b>	200/8	Ⓝ 2.9
C	24-0048	230/9	ⓔ 2.9



**bold = shown**







A

### Crile-Wood

Fig.	Art.-No.	Length mm/"	Tip mm
A	<b>24-8131</b>	150/6	2.0



B

### Mayo-Hegar

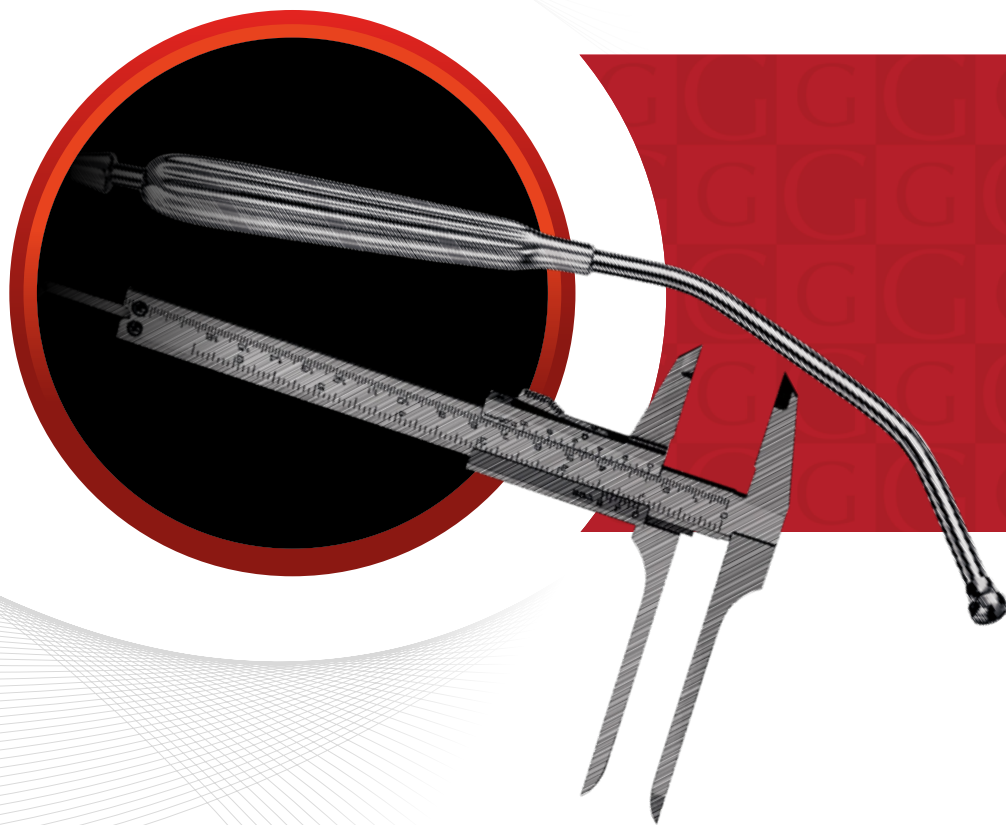
Fig.	Art.-No.	Length mm/"	Tip mm
B	24-8142	160/6¼	2.7
B	<b>24-8143</b>	190/7½	2.7
B	24-8144	200/8	3.0
B	24-8145	240/9½	3.0
B	24-8146	270/10½	3.0



C

### Adson

Fig.	Art.-No.	Length mm/"	Tip mm
C	<b>24-8160</b>	180/7	3.0



Miscellaneons





## Flushing Needles

Length 45 mm / 1¾ "

Art.-No.	Ø mm
18-0099	2
18-0100	3

Length 55 mm / 2¼ "

<b>18-0102</b>	3.7
----------------	-----

Length 160 mm / 6½ "

18-0104	5
---------	---

## Elsberg

Length 130 mm / 5 "

Art.-No.	Ch./Fr.
18-4300	5
<b>18-4301</b>	7
18-4302	9

## Yasargil-type

Length 130 mm / 5 "

Art.-No.	Ø mm
18-1002	1.5
18-1012	2
18-1022	2.5
18-1032	3.5

Length 150 mm / 6 "

18-1004	1.5
18-1014	2
18-1024	2.5
18-1034	3.5

Length 180 mm / 7 "

18-1006	1.5
18-1016	2
18-1026	2.5
18-1036	3.5
<b>18-1046</b>	4.5

Length 220 mm / 8¾ "

18-1008	1.5
18-1018	2
18-1028	2.5
18-1038	3.5

## Fukushima

Length 165 mm / 6½ "

Working Length 100 mm / 4 "

Art.-No.	Ø mm	Ch./Fr.
18-1104	1.4	4
18-1105	1.7	5
18-1106	2	6
18-1107	2.3	7
18-1108	2.7	8
18-1109	3	9

Length 180 mm / 7 "

Working Length 115 mm / 4½ "

18-1114	1.4	4
18-1115	1.7	5
18-1116	2	6
18-1117	2.3	7
18-1118	2.7	8
18-1119	3	9
18-1120	4	12

Length 205 mm / 8¼ "

Working Length 140 mm / 5½ "

18-1124	1,4	4
<b>18-1125</b>	1,7	5
18-1126	2	6
18-1127	2,3	7
18-1128	2,7	8
18-1129	3	9

Length 230 mm / 9 "

Working Length 165 mm / 6½ "

18-1134	1,4	4
18-1135	1,7	5
18-1136	2	6
18-1137	2,3	7
18-1138	2,7	8
18-1139	3	9

## Frazier

Working Length 170 mm / 6¾ "  
straight

Art.-No.	Ø mm	Ch./Fr.
18-4020	2	6
18-4021	2,7	8
18-4022	3,3	10
18-4023	4	12

Working Length 115 mm / 4½ "  
45° angled

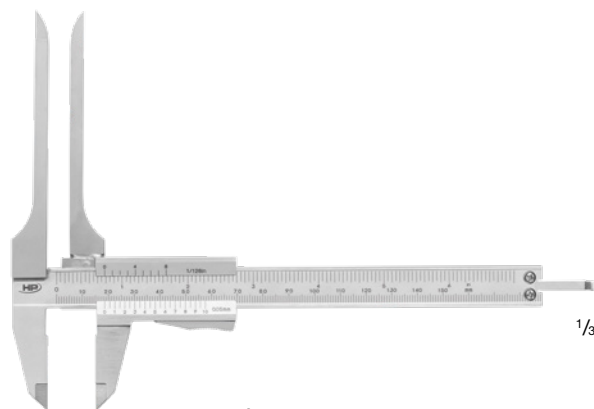
18-4030	2	6
18-4031	2,7	8
<b>18-4032</b>	3,3	10
18-4033	4	12

Working Length 165 mm / 6½ "  
45° angled

18-4040	2	6
18-4041	2,7	8
18-4042	3,3	10
18-4043	4	12
18-4044	5	15

Working Length 150 mm / 6 "  
90° angled

18-4060	2	6
18-4061	2,7	8
18-4062	3,3	10
18-4063	4	12



## Caliper

Fig.	Art.-No.	Length mm	Description
A	05-0555	200	125 mm scale

A

1/3

## Schramm

Ball Probe

double ended, Plastic  
Length 200 mm

Fig.	Art.-No.	Ø mm
B	21-7230	1
B	21-7231	1.5
B	21-7232	2
B	21-7233	2.5



B

2/3

AZURE™ Neo Cordless LED Headlight

GEISTER®



## AZURE™ Neo Cordless LED Headlight

Art.-No.	Description
02-2200	<b>300000 Lux, extra lightweight</b> (376 g with 2 batteries) Spot 120 mm / 4¾", with touch dimmer, focusable, <b>Operating time with 2 batteries &gt; 7 hours</b> complete with desktop charger, 4 Li-Ion batteries and wall plug transformer in case
02-2200.W	with warm light



77-9010



77-9017



77-9021



77-8998



77-9115





77-9255

## Kidney Tray

Art.-No.	Height mm/"	Length mm/"	Capacity l
<b>77-8998</b>	37/1¼	170/16½	0.25
77-9000	39/1½	250/10	0.5
77-9002	45/1¾	275/10½	0.75

## Case for Needle

Art.-No.	Height mm/"	Ø mm/"	Description
<b>77-9010</b>	16/⅝	65/2½	complete
77-9011			insert only
77-9012	16/⅝	95/3½	complete
77-9013			insert only

## Case for Clamps

Art.-No.	Length mm/"	Width mm/"
<b>77-9017</b>	70/2½	45/1¾

## Forceps Holder

Art.-No.	Ø mm/"	Height mm/"
77-9020	30/1	90/3½
<b>77-9021</b>	50/2	100/4
77-9022	50/2	130/5
77-9023	50/2	180/7
77-9024	82/3¼	130/5
77-9025	82/3¼	180/7
77-9026	95/3½	200/8

## Laboratory Bowl

Art.-No.	Ø mm/"	Height mm/"	Capacity l
<b>77-9115</b>	150/6	60/2¼	0.5
77-9117	150/6	75/2½	0.75
77-9118	160/6¼	75/2½	1.0
77-9119	220/8½	70/2½	2.0
77-9120	240/9½	95/3½	3.0
77-9121	260/10¼	120/4½	4.5
77-9122	300/12	115/4¼	6.0
77-9123	320/12½	140/5½	8.0
77-9124	380/15¼	130/5	11.0
77-9125	400/16	155/6	14.0

## Instrument Tray

Art.-No.	Height mm/"	Length mm/"	Width
<b>77-9255</b>	10/⅜	450/18	330/13



77-9148



77-9090

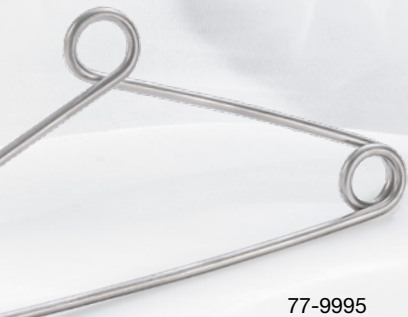


77-9105



77-9089





77-9995

## Solution Bowl

Art.-No.	Ø mm/"	Height mm/"	Capacity l
<b>77-9090</b>	50/2	45/1¾	0.05
77-9094	60/2¼	52/2	0.075

for ink/marking liquid

Art.-No.	Ø mm/"	Height mm/"
<b>77-9089</b>	30/1	20/¾

## Laboratory Bowl

Art.-No.	Ø mm/"	Height mm/"	Capacity l
77-9095	80/3	35/1¼	0.1
77-9096	90/3½	55/2	0.2
77-9097	100/4	65/2¼	0.3
77-9098	120/4½	70/2½	0.4

## Graduated Medicine Cup

Art.-No.	Ø mm/"	Height mm/"	Capacity l
<b>77-9105</b>	50/2	25/1	0.03
77-9106	53/2	45/1¾	0.05



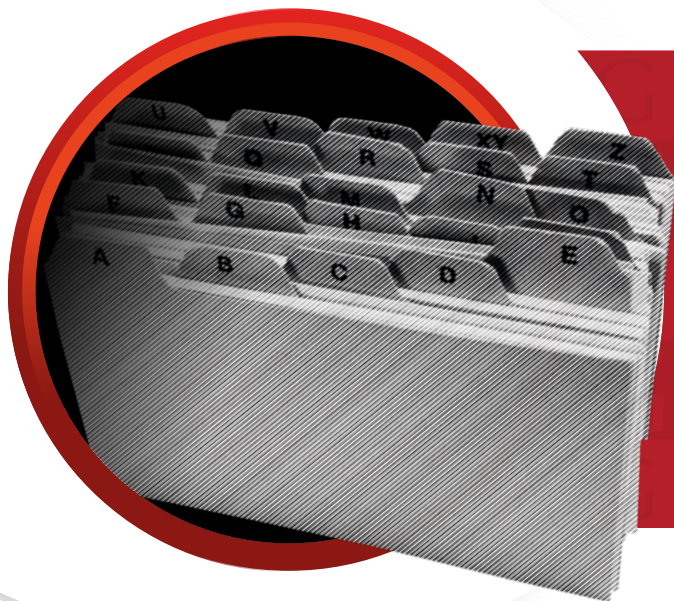
For container see our special catalog SurgiBOX.

## Graduated Jug

Art.-No.	Height mm/"	Capacity l
77-9147	50/2	0.1
<b>77-9148</b>	70/2½	0.25
77-9149	130/5	0.5
77-9150	150/6	1.0
77-9151	160/6¼	1.5
77-9152	170/6½	2.0

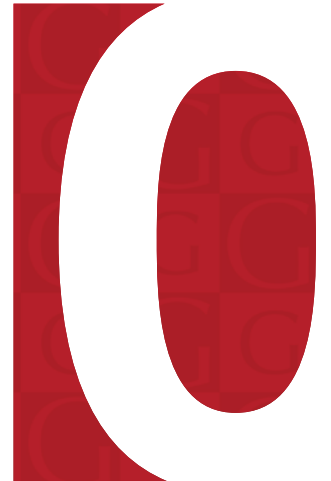
## Mayo Safety Pin

Art.-No.	Length mm/"
<b>77-9995</b>	140/5½





Index





## 02 - 10

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
<b>02</b>		03-0622.TI	185	03-0660.TI	187	03-2032	196	03-4400	164	10-0106	205
02-2200	319	03-0623	184	03-0661	186	03-2033	196	03-4401	164	10-0107	205
02-2200.W	319	03-0623.TI	185	03-0661.04	186	03-3170	175	03-4402	164	10-0108	205
		03-0624	184	03-0661.04TI	187	03-3171	175	03-4403	164	10-0109	205
		03-0624.TI	185	03-0661.08	186	03-3175	174-175	03-4410	164	10-0110	204-205
<b>03</b>		03-0650	186	03-0661.08TI	187	03-3176	175	03-4411	164	10-0112	205
03-0270	308-309	03-0650.04	186	03-0661.TI	187	03-3180	175	03-4412	164	10-0114	205
03-0400	164	03-0650.04TI	187	03-0665	186	03-3181	175	03-4413	164	10-0116	205
03-0401	164	03-0650.08	186	03-0665.08	186	03-3185	175			10-0118	205
03-0402	164	03-0650.08TI	187	03-0680	188	03-3186	175			10-0120	207
03-0403	164	03-0650.TI	187	03-0681	188	03-3190	175	<b>05</b>		10-0121	205
03-0410	164	03-0651	186	03-0682	188	03-3191	174-175	05-0555	318	10-0122	207
03-0411	164	03-0651.04	186	03-0683	188	03-3195	175			10-0123	205
03-0412	164	03-0651.04TI	187	03-0684	188	03-3196	175			10-0124	207
03-0413	164	03-0651.08	186	03-0685	188	03-3200	175	<b>10</b>		10-0125	205
03-0606	184	03-0651.08TI	187	03-1131	173	03-3201	175	10-0050	205	10-0126	206-207
03-0606.TI	185	03-0651.TI	187	03-1133	172-173	03-3205	175	10-0050.MM	205	10-0127	205
03-0608	184	03-0655	186	03-1133/R	172	03-3206	175	10-0052	204-205, 207	10-0128	207
03-0608.TI	185	03-0655.04	186	03-1133/RKG	172	03-3210	175	10-0052.MM	205	10-0129	205
03-0610	184	03-0655.04TI	187	03-1133/WK	172	03-3211	175	10-0054	205	10-0130	207
03-0610.TI	185	03-0655.08	186	03-1135	173	03-3215	175	10-0054.MM	205	10-0131	205
03-0612	184	03-0655.08TI	187	03-1137	173	03-3216	175	10-0072	208-209	10-0132	207
03-0612.TI	185	03-0655.TI	187	03-1139	173	03-3220	175	10-0073	208-209	10-0133	205
03-0614	184	03-0656	186	03-1139V	173	03-3221	175	10-0075	209	10-0134	207
03-0614.TI	185	03-0656.04	186	03-1400	164	03-3225	175	10-0089	209	10-0135	205
03-0616	184	03-0656.04TI	187	03-1401	164	03-3226	175	10-0090	208-209	10-0136	207
03-0616.TI	185	03-0656.08	186	03-1410	164	03-3300	174-175	10-0091	209	10-0137	205
03-0618	184	03-0656.08TI	187	03-1411	164	03-3300.02	175	10-0096	205	10-0138	207
03-0618.TI	185	03-0656.TI	187	03-2002	196	03-3300.04	175	10-0097	204-205	10-0140	207
03-0620	184	03-0660	186	03-2004	196	03-3300.08	175	10-0098	205	10-0141	207
03-0620.TI	185	03-0660.04	186	03-2008	196	03-4100	164	10-0100	205	10-0142	207
03-0621	184	03-0660.04TI	187	03-2009	196	03-4101	164	10-0102	205	10-0143	207
03-0621.TI	185	03-0660.08	186	03-2030	196	03-4105	164	10-0104	205	10-0144	206-207
03-0622	184	03-0660.08TI	187	03-2031	196	03-4106	164	10-0105	208-209	10-0145	207

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
10-0146	207	10-0537	219	10-0614	211	10-1834	224	10-2016	227	10-2144	233
10-0148	207	10-0540	219	10-0620	210-211	10-1835	230-231	10-2018	227	10-2146	233
10-0150	206-207	10-0541	219	10-0622	211	10-1837	231	10-2020	227	10-2148	233
10-0154	207	10-0542	219	10-0624	211	10-1838	231	10-2022	227	10-2170	235
10-0180	207	10-0543	219	10-0624.30	211	10-1839	231	10-2024	227	10-2171	235
10-0182	206-207	10-0544	218-219	10-0626	211	10-1839.08	231	10-2026	226-227	10-2172	234-235
10-0184	207	10-0545	220-221	10-0627	211	10-1880	228-229	10-2028	227	10-2173	235
10-0350	208-209	10-0546	221	10-0628	211	10-1881	229	10-2030	227	10-2190	234-235
10-0351	209	10-0547	221	10-0628.30	211	10-1882	229	10-2032	227	10-2195	234-235
10-0500	212-213	10-0549	214-215	10-0630	210-211	10-1883	229	10-2034	227	10-2200	232-233
10-0501	212-213	10-0550	213	10-0632	211	10-1890	228-229	10-2036	227	10-2201	233
10-0502	213	10-0551	212-213	10-0634	211	10-1895	228-229	10-2038	227	10-2202	232-233
10-0504	212-213	10-0552	212-213	10-0636	210-211	10-1900	228-229	10-2041	226-227	10-2210	235
10-0505	213	10-0553	213	10-0637	211	10-1901	229	10-2045	227	10-2211	235
10-0507	218-219	10-0560	217	10-0638	211	10-1902	228-229	10-2046	227	10-2212	234
10-0508	220-221	10-0561	216-217	10-0640	211	10-1910	226-227	10-2047	226-227	10-2213	235
10-0510	221	10-0562	217	10-0642	210-211	10-1910.TI	227	10-2102	233	10-2214	235
10-0511	221	10-0563	217	10-0644	211	10-1911	227	10-2104	233	10-2215	235
10-0511.GB	221	10-0564	217	10-0646	211	10-1920	235	10-2106	233	10-2216	235
10-0512	221	10-0565	217	10-0647	211	10-1921	235	10-2108	232-233	10-2217	235
10-0513	220-221	10-0566	217	10-0648	211	10-1922	234-235	10-2110	233	10-2220	232-233
10-0513.GB	220-221	10-0567	216-217	10-1550	228-229	10-1923	235	10-2112	233	10-2221	233
10-0514	216-217	10-0568	217	10-1551	233	10-1924	235	10-2114	233	10-3002	227
10-0518	215	10-0569	217	10-1740	226-227	10-1925	235	10-2116	233	10-3103	222-223
10-0519	214-215	10-0570	214-215	10-1741	227	10-1926	235	10-2118	233	10-3104	222-223
10-0526	219	10-0580	217	10-1742	227	10-1927	235	10-2122	233	10-3105	222-223
10-0527	218-219	10-0581	216-217	10-1743	226-227	10-2000	227	10-2124	232-233	10-3107	222-223
10-0528	219	10-0582	217	10-1743.08	227	10-2002	227	10-2126	233	10-3200	222
10-0529	219	10-0585	216-217	10-1750	224-225	10-2004	227	10-2128	233	10-3203	222
10-0530	219	10-0600	211	10-1751	224-225	10-2006	227	10-2130	233	10-3204	222
10-0532	219	10-0602	210-211	10-1752	224-225	10-2008	226-227	10-2131	233	10-3205	222
10-0534	218-219	10-0604	211	10-1831	230-231	10-2010	227	10-2132	232-233	10-3211	223
10-0535	219	10-0610	210-211	10-1832	230-231	10-2012	227	10-2140	233	10-3213	223
10-0536	219	10-0612	211	10-1833	231	10-2014	227	10-2142	232-233	10-3390	164



## 10-24

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
10-3392	164	10-6047.TI	191	10-6622/Y	176	10-7052	201	10-7136	203	16-0017	291
10-4390	164	10-6048	190	10-6630	177	10-7054	201	10-7137	203	16-0023	291
10-4392	164	10-6052	190	10-6632	177	10-7055	201	10-7138	203	16-0023.GB	290-291
10-6010	192	10-6054	190	10-6640	177	10-7056	201	10-7140	203	16-0030	293
10-6010.TI	193	10-6056	190	10-6642	177	10-7060	201	10-7141	203	16-0030.DF	293
10-6011	192	10-6058	190	10-7000	203	10-7061	201	10-7142	203	16-0031	293
10-6011.TI	193	10-6060	194	10-7001	203	10-7062	201	10-7143	203	16-0032	293
10-6012	192	10-6060.TI	195	10-7002	203	10-7064	201	10-7144	203	16-0033	294-295
10-6012.TI	193	10-6065	194	10-7003	203	10-7065	201	10-7145	203	16-0033.10	295
10-6013	192	10-6065.TI	195	10-7010	202-203	10-7066	201	10-7146	203	16-0034	294-295
10-6013.TI	193	10-6070	194	10-7012	203	10-7110	203	10-7147	203	16-0100	290-291
10-6014	192	10-6070.TI	195	10-7014	202-203	10-7111	203	10-7148	203	16-0102	291
10-6014.TI	193	10-6076	194	10-7016	203	10-7112	203	10-7200	202	16-0190	290-291
10-6015	192	10-6076.TI	195	10-7020	200-201, 203	10-7113	203	10-8000	75-76, 81, 88, 90	16-1005	296-297
10-6015.TI	193	10-6310	192	10-7021	201, 203	10-7114	203			16-1016.TI	295
10-6030	190	10-6311	192	10-7022	201, 203	10-7115	203			16-2009.E	292
10-6030.TI	191	10-6312	192	10-7024	201	10-7116	203	<b>14</b>		16-2010	292
10-6031	190	10-6313	192	10-7025	201	10-7117	203	14-0670	58-59	16-2010.A	292
10-6031.TI	191	10-6314	192	10-7026	201	10-7118	203	14-0675	60-61	16-2011	292
10-6032	190	10-6315	192	10-7030	200-201	10-7120	203	14-0700	58-59	16-2012	292
10-6032.TI	191	10-6330	190	10-7030.US	200	10-7121	203	14-0710	58-59	16-2012.D	292
10-6033	190	10-6331	190	10-7031	201	10-7122	202-203	14-1010	160	16-2013	292
10-6033.TI	191	10-6332	190	10-7032	201	10-7123	203	14-1015	160	16-2014	292
10-6034	190	10-6333	190	10-7034	200-201	10-7124	202-203	14-1020	160	16-2014.E	292
10-6034.TI	191	10-6334	190	10-7035	201	10-7125	203	14-1025	160	16-2015	292
10-6035	190	10-6335	190	10-7036	201	10-7126	203	14-1030	160	16-2015.C	292
10-6035.TI	191	10-6336	190	10-7040	201	10-7127	203			16-2015.E	292
10-6036	190	10-6337	190	10-7041	201	10-7128	203			16-2016	292
10-6036.TI	191	10-6620	176-177	10-7042	201	10-7130	203	<b>16</b>		16-2016.E	292
10-6037	190	10-6620/P	176	10-7044	201	10-7131	203	16-0003	290-291	16-2017	292
10-6037.TI	191	10-6620/R	176	10-7045	201	10-7132	203	16-0004	290-291	16-2017.E	292
10-6045	190	10-6622	177	10-7046	201	10-7133	203	16-0007	290-291	16-2018	292
10-6045.TI	191	10-6622/B	176	10-7050	201	10-7134	202-203	16-0013	290-291	16-2019	292
10-6047	190	10-6622/WK	176	10-7051	201	10-7135	203	16-0014	291	16-2020	292



Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
16-2021	292	18-1028	317	18-4023	317	20-0222	249-250	<b>21</b>		24-0134	305
16-2022	292	18-1032	317	18-4030	317	20-0223	249-250	21-7230	318	24-0135	305
16-2023	292	18-1034	317	18-4031	317	20-0224	249-250	21-7231	318	24-0200	309
16-2024	292	18-1036	317	18-4032	316-317	20-0225	249-250	21-7232	318	24-0201	309
16-2025	292	18-1038	317	18-4033	317	20-0270	247	21-7233	318	24-0204	309
16-2034	292	18-1046	316-317	18-4040	317	20-0271	247			24-0205	309
16-2036	292	18-1104	317	18-4041	317	20-0272	247			24-0208	309
16-2061	295	18-1105	317	18-4042	317	20-0280	246-247	<b>24</b>		24-0209	309
16-2062	295	18-1106	317	18-4043	317	20-0281	247	24-0040	311	24-0220	309
16-2062.S	295	18-1107	317	18-4044	317	20-0282	247	24-0041	311	24-0221	309
16-2064	295	18-1108	317	18-4060	317	20-0283	247	24-0042	310-311	24-0224	309
16-2065	295	18-1109	317	18-4061	317	20-0285	247	24-0046	311	24-0225	309
16-2067	295	18-1114	317	18-4062	317	20-0286	247	24-0047	310-311	24-0228	308-309
16-2070	293	18-1115	317	18-4063	317	20-0300	247	24-0048	311	24-0229	309
16-2075	293	18-1116	317	18-4300	317	20-0301	247	24-0050	310-311	24-0250	309
16-5050	293	18-1117	317	18-4301	316-317	20-0302	247	24-0100	57	24-0252	309
		18-1118	317	18-4302	317	20-0310	247	24-0105	57	24-0255	308-309
		18-1119	317	18-9800.08	297	20-0311	247	24-0110	56-57	24-0258	308-309
<b>18</b>		18-1120	317	18-9800.10	296-297	20-0312	247	24-0115	57	24-0308	305
18-0099	317	18-1124	317	18-9800.12	297	20-0313	247	24-0119	55	24-0310	305
18-0100	317	18-1125	316-317	18-9800.14	297	20-0315	247	24-0120	57	24-0311	304-305
18-0102	316-317	18-1126	317	18-9800.16	297	20-0316	247	24-0121	57	24-0312	305
18-0104	317	18-1127	317	18-9800.18	297	20-0500	247	24-0125	56-57	24-0313	305
18-1002	317	18-1128	317			20-0500.TI	247	24-0126	57	24-0314	305
18-1004	317	18-1129	317			20-0501	247	24-0127	55	24-0315	305
18-1006	317	18-1134	317	<b>20</b>		20-0501.TI	247	24-0128	55	24-0322	306-307
18-1008	317	18-1135	317	20-0200	247	20-0502	246-247	24-0129	305	24-0323	307
18-1012	317	18-1136	317	20-0204	247	20-0502.TI	247	24-0130	57, 305	24-0324	307
18-1014	317	18-1137	317	20-0208	247	20-0505	247	24-0130.TI	305	24-0325	307
18-1016	317	18-1138	317	20-0210	247	20-0505.TI	247	24-0131	305	24-0341	307
18-1018	317	18-1139	317	20-0214	246-247	20-5000	249-250	24-0131.TI	305	24-0342	307
18-1022	317	18-4020	317	20-0218	247	20-5010	248, 250	24-0132	304-305	24-0343	306-307
18-1024	317	18-4021	317	20-0220	248, 250			24-0132.TI	305	24-0344	307
18-1026	317	18-4022	317	20-0221	249-250			24-0133	305	24-0345	307



## 24-26

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
24-0346	307	24-0440	307	<b>25</b>		25-1026	237	25-1147	239	25-9026	243
24-0347	307	24-0441	307	25-0001	244-245	25-1026.TI	237	25-1150	238-239	25-9027	243
24-0348	306-307	24-0442	307	25-0040	244-245	25-1030	237	25-1151	238-239	25-9030	243
24-0349	307	24-0444	307	25-0043	244-245	25-1031	237	25-1152	239	25-9032	243
24-0350	304-305	24-0445	307	25-0044	245	25-1035	237	25-1153	239	25-9035	243
24-0351	305	24-0446	306-307	25-0045	244-245	25-1036	237	25-1154	239	25-9037	243
24-0352	305	24-0447	307	25-0050	244-245	25-1060	236	25-1155	239	25-9110	243
24-0353	305	24-0905	60-61	25-0061	244	25-1060.TI	236	25-1156	239	25-9111	243
24-0360	304-305	24-0906	61	25-0065.00	245	25-1061	236	25-1157	239	25-9120	243
24-0360.TI	305	24-0910	61	25-0065.01	245	25-1061.TI	236	25-2000	240-241	25-9121	243
24-0361	305	24-0920	60-61	25-0065.02	245	25-1070	237	25-2200	240-241	25-9122	243
24-0361.TI	305	24-0930	58-59	25-0065.03	245	25-1070.TI	237	25-2201	240-241	25-9123	243
24-0362	305	24-0940	60-61	25-0065.04	245	25-1071	236-237	25-2202	241	25-9124	243
24-0363	305	24-0942	60-61	25-0065.S1	244-245	25-1071.TI	237	25-2203	241	25-9125	243
24-0363.TI	305	24-0950	58-59	25-0065.S2	245	25-1075	237	25-2204	241	25-9130	243
24-0364	305	24-0955	59	25-0065.S3	245	25-1075.TI	237	25-2205	241	25-9132	243
24-0400	307	24-0956	59	25-0071	244	25-1076	237	25-2206	241	25-9134	243
24-0401	306-307	24-0980	57	25-0083	244	25-1076.TI	237	25-2207	241		
24-0402	307	24-0981	56-57	25-0086.01	245	25-1080	236-237	25-2208	241		
24-0410	307	24-1140	189, 309	25-0086.02	245	25-1081	237	25-2209	241	<b>26</b>	
24-0410.TI	307	24-1141	189, 308-309	25-0086.03	245	25-1085	237	25-9010	243	26-0010	269
24-0412	307	24-1150	189, 309	25-0144	241	25-1086	237	25-9011	243	26-0011	268-269
24-0412.TI	307	24-1151	189, 309	25-0145	241	25-1090	237	25-9012	243	26-0012	269
24-0413	307	24-1160	189, 309	25-0147	240-241	25-1091	237	25-9013	243	26-0013	269
24-0413.TI	307	24-1161	189, 309	25-0148	241	25-1092	237	25-9014	243	26-0014	268-269
24-0414	306-307	24-8131	312-313	25-1010	236	25-1093	237	25-9015	243	26-0015	269
24-0414.TI	307	24-8142	313	25-1011	236	25-1097	240-241	25-9016	243	26-0020	271
24-0415	307	24-8143	312-313	25-1015	236	25-1140	239	25-9017	243	26-0021	271
24-0420	309	24-8144	313	25-1016	236	25-1141	239	25-9020	243	26-0022	270-271
24-0421	309	24-8145	313	25-1020	237	25-1142	239	25-9021	243	26-0023	271
24-0422	309	24-8146	313	25-1020.TI	237	25-1143	238-239	25-9022	243	26-0025	271
24-0423	309	24-8160	312-313	25-1021	236-237	25-1144	239	25-9023	243	26-0026	270-271
24-0424	309			25-1021.TI	237	25-1145	239	25-9024	243	26-0040	271
24-0439	307			25-1025	237	25-1146	239	25-9025	243	26-0041	270-271

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
26-0042	270-271	26-0155	272-273	26-6030	283	26-6068	283	26-6140	281	26-6194.SC	279
26-0043	271	26-0156	272-273	26-6031	283	26-6069	283	26-6140.SC	280-281	26-6194.ST	275
26-0100	267	26-0160	272-273	26-6032	283	26-6070	283	26-6141	280-281	26-6195	279
26-0101	267	26-0161	273	26-6033	282-283	26-6071	283	26-6141.SC	281	26-6195.SC	279
26-0102	267	26-0180	269	26-6034	283	26-6072	283	26-6142	281	26-6196	279
26-0103	266-267	26-0181	269	26-6035	283	26-6073	283	26-6143	281	26-6196.SC	279
26-0104	267	26-0182	268-269	26-6036	283	26-6074	283	26-6148.ST	274-275	26-6200	279
26-0105	267	26-0183	269	26-6037	283	26-6075	283	26-6160.ST	277	26-6200.SC	279
26-0106	267	26-0184	269	26-6040	283	26-6076	283	26-6161.ST	276-277	26-6200.ST	275
26-0107	267	26-0185	269	26-6041	283	26-6077	283	26-6170	285	26-6201	278-279
26-0108	267	26-0186	269	26-6042	283	26-6100	281	26-6170.SC	285	26-6201.SC	278-279
26-0109	267	26-0187	268-269	26-6043	283	26-6100.SC	281	26-6170.ST	277	26-6201.ST	274-275
26-0110	267	26-0498	265	26-6044	283	26-6102	281	26-6172	285	26-6202	279
26-0111	267	26-0500	264-265	26-6045	283	26-6102.SC	281	26-6172.SC	285	26-6202.SC	279
26-0112	267	26-0500G	265	26-6046	282-283	26-6104	281	26-6172.ST	276-277	26-6202.ST	275
26-0113	267	26-0501	265	26-6047	283	26-6104.SC	280-281	26-6174	285	26-6203	279
26-0115	267	26-0501G	265	26-6048	283	26-6106	281	26-6174.SC	285	26-6203.SC	279
26-0116	264-265	26-0502	265	26-6049	283	26-6106.SC	281	26-6174.ST	277	26-6203.ST	275
26-0118	265	26-0502G	264-265	26-6050	283	26-6108	281	26-6176	285	26-6204	279
26-0118.23	265	26-4199	288-289	26-6051	283	26-6108.SC	281	26-6176.SC	285	26-6204.SC	279
26-0119	264-265	26-4200	288-289	26-6052	283	26-6110	281	26-6176.ST	277	26-6204.ST	275
26-0120	267	26-4201	288-289	26-6053	283	26-6110.SC	281	26-6190	278-279	26-6205	279
26-0121	267	26-4210	288-289	26-6054	283	26-6112	281	26-6190.SC	279	26-6205.SC	279
26-0122	266-267	26-6020	283	26-6055	283	26-6112.SC	281	26-6190.ST	275	26-6206	279
26-0123	266-267	26-6021	283	26-6056	283	26-6114	280-281	26-6191	279	26-6206.SC	279
26-0124	267	26-6022	283	26-6057	283	26-6114.SC	281	26-6191.SC	279	26-6208	279
26-0125	267	26-6023	283	26-6060	283	26-6116	281	26-6191.ST	275	26-6208.SC	279
26-0126	267	26-6024	283	26-6061	283	26-6116.SC	281	26-6192	279	26-6208.ST	275
26-0127	267	26-6024.SC	282	26-6062	283	26-6118	281	26-6192.SC	279	26-6209	279
26-0129	267	26-6025	283	26-6063	283	26-6118.SC	281	26-6192.ST	275	26-6209.SC	279
26-0131	267	26-6026	283	26-6064	283	26-6132.ST	274-275	26-6193	279	26-6209.ST	275
26-0140	272-273	26-6027	283	26-6065	283	26-6133.ST	275	26-6193.SC	279	26-6210	278-279
26-0150	273	26-6028	283	26-6066	283	26-6134.ST	275	26-6193.ST	275	26-6210.SC	279
26-0151	272-273	26-6029	283	26-6067	283	26-6135.ST	275	26-6194	279	26-6210.ST	275



## 26 - 29

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
26-6211	279	26-6229.SC	279	26-6256.SC	285	26-9113	297	29-3002.40	75	29-3006.60	77
26-6211.SC	279	26-6230	279	26-6256.ST	277	26-9114	297	29-3002.45	75	29-3006.65	77
26-6211.ST	275	26-6230.SC	279	26-6258	285			29-3002.50	75	29-3006.70	77
26-6212	279	26-6231	279	26-6258.SC	285			29-3002.55	75	29-3006.75	77
26-6212.SC	279	26-6231.SC	279	26-6258.ST	277	<b>28</b>		29-3002.60	75	29-3007	81
26-6212.ST	275	26-6232	279	26-6311	286-287	28-0010	141	29-3002.65	75	29-3011	74
26-6213	279	26-6232.SC	279	26-6316	286-287	28-0020	142	29-3002.70	75	29-3011.PK	78, 81
26-6213.SC	279	26-6235	279	26-6321	286-287	28-0030	141	29-3003.40	75	29-3011.TI	76
26-6213.ST	275	26-6235.SC	279	26-6322	287	28-0035	141	29-3003.45	75	29-3012.35	75
26-6214	279	26-6236	279	26-6326	287	28-0036	141	29-3003.50	75	29-3012.40	75
26-6214.SC	279	26-6236.SC	279	26-6331	287	28-0041	140	29-3003.55	75	29-3012.45	75
26-6215	278-279	26-6237	279	26-6336	287	28-0042	140	29-3003.60	75	29-3012.50	75
26-6215.SC	279	26-6237.SC	279	26-6341	287	28-0043	140	29-3003.65	75	29-3012.55	75
26-6215.ST	275	26-6238	285	26-6686.ST	277	28-0044	140	29-3003.70	75	29-3012.60	75
26-6216	279	26-6238.SC	285	26-6687.ST	277	28-0045	140	29-3004.40	75	29-3012.65	75
26-6216.SC	279	26-6239	285	26-6688.ST	277	28-0065	142	29-3004.45	75	29-3012.70	75
26-6216.ST	275	26-6239.SC	285	26-6689.ST	277	28-0066	142	29-3004.50	75	29-3012.75	75
26-6217	279	26-6240.ST	277	26-6690.ST	277	28-0071	141	29-3004.55	75	29-3013.PK	78
26-6217.SC	278-279	26-6242.ST	277	26-6691.ST	276-277	28-0072	141	29-3004.60	75	29-3013.TI	76
26-6217.ST	274-275	26-6244.ST	277	26-6840	280-281	28-0080	142	29-3005.40	77	29-3014.50	75
26-6218	279	26-6246.ST	277	26-6841	281	28-0082	142	29-3005.45	77	29-3014.60	75
26-6218.SC	279	26-6248.ST	277	26-6842	281	28-0084	142	29-3005.50	77	29-3015.30	77
26-6218.ST	275	26-6250	285	26-6873	283	28-0086	142	29-3005.55	77	29-3015.35	77
26-6219	279	26-6250.SC	285	26-6874	283	28-0180	142	29-3005.60	77	29-3015.40	77
26-6219.SC	279	26-6250.ST	277	26-6875	282-283			29-3005.65	77	29-3015.45	77
26-6225	279	26-6252	285	26-6876	283			29-3005.70	77	29-3015.50	77
26-6225.SC	279	26-6252.SC	284-285	26-7300	284-285	<b>29</b>		29-3005.75	77	29-3015.55	77
26-6226	279	26-6252.ST	276-277	26-7301	284-285	29-3000	75	29-3006.25	77	29-3015.60	77
26-6226.SC	279	26-6254	285	26-7310	288-289	29-3000.TI	77	29-3006.30	77	29-3015.65	77
26-6227	279	26-6254.SC	285	26-9105	296-297	29-3001	74-75	29-3006.35	77	29-3015.70	77
26-6227.SC	279	26-6254.ST	277	26-9109	297	29-3001.PK	78	29-3006.40	77	29-3015.75	77
26-6228	279	26-6255	285	26-9110	296-297	29-3001.TI	76-77	29-3006.45	77	29-3016.35	77
26-6228.SC	279	26-6255.SC	284-285	26-9111	297	29-3001L	74	29-3006.50	77	29-3016.40	77
26-6229	279	26-6256	285	26-9112	297	29-3002.35	75	29-3006.55	77	29-3016.45	77

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
29-3016.50	77	29-3030.65	79, 81	29-3120	97	29-3165.50	96	29-3255R.15	99	29-3512	88-89
29-3016.55	77	29-3030.75	79, 81	29-3121	97	29-3165.75	96	29-3360	91	29-3514	88-89
29-3016.60	77	29-3031.40	79	29-3121.40	97	29-3166.50	96	29-3361	91	29-3519	88
29-3016.65	77	29-3031.45	79	29-3121.45	97	29-3166.60	96	29-3362	91	29-3520	88-89
29-3016.70	77	29-3031.50	79	29-3121.50	97	29-3166.75	96	29-3363	91	29-3520K	89
29-3017.25	77	29-3031.55	79	29-3121.55	97	29-3200	94	29-3364	91	29-3521	88-89
29-3017.30	77	29-3031.60	79	29-3121.60	97	29-3201	94	29-3365	91	29-3522	88-89
29-3017.35	77	29-3031.65	79	29-3122.40	97	29-3202	94	29-3366	91	29-3523	88-89
29-3017.40	77	29-3031.75	79	29-3122.45	97	29-3203	94	29-3367	91	29-3524	88-89
29-3017.45	77	29-3032.40	79, 81	29-3122.50	97	29-3210	94	29-3370	91	29-3525	88-89
29-3017.50	77	29-3032.45	79, 81	29-3122.55	97	29-3212	94	29-3371	91	29-3526	88-89
29-3017.55	77	29-3032.50	79, 81	29-3122.60	97	29-3250L	99	29-3372	91	29-3527	88-89
29-3017.60	77	29-3032.55	79, 81	29-3131	92	29-3250L.15	99	29-3373	91	29-3528	88-89
29-3017.65	77	29-3032.60	79, 81	29-3131L	92	29-3250R	99	29-3374	91	29-3529	88-89
29-3017.70	77	29-3032.65	79, 81	29-3132	92	29-3250R.15	99	29-3375	91	29-3530	88-89
29-3018.35	77	29-3032.75	79, 81	29-3133	93	29-3251L	99	29-3376	91	29-3531	88-89
29-3018.40	77	29-3033.40	79, 81	29-3134.12	93	29-3251L.15	99	29-3377	91	29-3532	88-89
29-3018.45	77	29-3033.45	79, 81	29-3134.14	93	29-3251R	99	29-3380	91	29-3533	88-89
29-3018.50	77	29-3033.50	79, 81	29-3134.16	93	29-3251R.15	99	29-3381	91	29-3534	88-89
29-3018.55	77	29-3033.55	79, 81	29-3134.18	93	29-3252L	99	29-3382	91	29-3535	88-89
29-3018.60	77	29-3033.60	79, 81	29-3135	93	29-3252L.15	99	29-3383	91	29-3538	88-89
29-3018.65	77	29-3033.65	79, 81	29-3141	92	29-3252R	99	29-3384	91	29-3542	88-89
29-3018.70	77	29-3033.75	79, 81	29-3141L	92	29-3252R.15	99	29-3385	91	29-3548	88-89
29-3018.75	77	29-3034.40	79	29-3142	92	29-3253L	99	29-3386	91	29-3550	91
29-3029.40	79, 81	29-3034.45	79	29-3160	96	29-3253L.15	99	29-3387	91	29-3550.DR	91
29-3029.45	79, 81	29-3034.50	79	29-3161	96	29-3253R	99	29-3400	95	29-3550.SP	91
29-3029.50	79, 81	29-3034.55	79	29-3162.51	96	29-3253R.15	99	29-3410	95	29-3551	91
29-3029.55	79, 81	29-3034.60	79	29-3162.76	96	29-3254L	99	29-3500	89	29-3552	91
29-3029.60	79, 81	29-3034.65	79	29-3163.50	96	29-3254L.15	99	29-3502	88-89	29-3560	90
29-3030.40	79, 81	29-3034.75	79	29-3163.60	96	29-3254R	99	29-3504	88-89	29-3561	90
29-3030.45	79, 81	29-3100	74	29-3163.75	96	29-3254R.15	99	29-3506	88-89	29-3565.40	90
29-3030.50	79, 81	29-3100.PK	78, 81	29-3164.50	96	29-3255L	99	29-3508	88-89	29-3565.45	90
29-3030.55	79, 81	29-3109	74	29-3164.60	96	29-3255L.15	99	29-3510	88-89	29-3565.50	90
29-3030.60	79, 81	29-3109.PK	78, 81	29-3164.75	96	29-3255R	99	29-3511	89	29-3565.55	90



## 29 - 40

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
29-3565.60	90	29-3625.45	69	29-3628.50	67, 69	29-3652.85	73	29-3706.70	84, 87	29-3711.30	87
29-3565.65	90	29-3625.50	69	29-3628.55	67, 69	29-3655.01	71, 73	29-3706.70PK	85	29-3711.40	87
29-3565.75	90	29-3625.55	69	29-3628.60	67, 69	29-3655.02	73	29-3706.80	84, 87	29-3711.50	87
29-3565.85	90	29-3625.60	69	29-3628.65	67, 69	29-3700	86	29-3706.90	87	29-3711.60	83, 87
29-3570.35	90	29-3625.65	69	29-3628.70	67, 69	29-3701	82, 86	29-3707.100	83, 87	29-3711.70	87
29-3570.40	90	29-3625.70	69	29-3628.75	64, 69	29-3702	82, 84, 86	29-3707.180	87	29-3711.80	87
29-3570.45	90	29-3625.75	64, 69	29-3629.25	69	29-3702PK	85	29-3707.20	84, 87	29-3712.40	84, 86
29-3570.50	90	29-3626.25	69	29-3629.30	69	29-3703	86	29-3707.30	84, 87	29-3717	84
29-3570.55	90	29-3626.30	69	29-3629.35	67, 69	29-3705.100	87	29-3707.40	84, 87	29-3717.L	84
29-3570.60	90	29-3626.35	69	29-3629.40	64, 67, 69	29-3705.110	87	29-3707.50	84, 87	29-3718PK	85
29-3570.65	90	29-3626.40	69	29-3629.45	67, 69	29-3705.120	87	29-3707.60	82, 84, 87	29-3722	85, 88
29-3570.75	90	29-3626.45	69	29-3629.50	67, 69	29-3705.180	87	29-3707.70	84, 87	29-3723	84
29-3570.85	90	29-3626.50	69	29-3629.55	67, 69	29-3705.30	84, 87	29-3707.80	87	29-3724	84
29-3571.40	90	29-3626.55	69	29-3629.60	67, 69	29-3705.40	84, 87	29-3707.90	87	29-4200	112
29-3571.45	90	29-3626.60	69	29-3629.65	67, 69	29-3705.40PK	85	29-3708.100	83, 87	29-4201	112
29-3571.50	90	29-3626.65	69	29-3629.70	67, 69	29-3705.50	84, 87	29-3708.180	87	29-4202	112
29-3571.55	90	29-3626.70	69	29-3629.75	67, 69	29-3705.50PK	85	29-3708.20	84, 87	29-4211	112
29-3571.60	90	29-3626.75	64, 69	29-3650.35	73	29-3705.60	83-84, 87	29-3708.30	84, 87	29-4212	112
29-3571.65	90	29-3627.25	69	29-3650.40	73	29-3705.60PK	85	29-3708.40	84, 87	29-4213	112
29-3571.70	90	29-3627.30	67, 69	29-3650.45	73	29-3705.70	84, 87	29-3708.50	84, 87	29-4215	112
29-3604	71, 73	29-3627.35	67, 69	29-3650.55	71, 73	29-3705.70PK	85	29-3708.60	83-84, 87	29-4220	112
29-3605	70, 72-73	29-3627.40	67, 69	29-3650.65	73	29-3705.80	84, 87	29-3708.70	84, 87	29-4221	112
29-3608	65, 67	29-3627.45	67, 69	29-3651.35	73	29-3705.90	87	29-3708.80	87		
29-3609	64, 67-68, 71-73	29-3627.50	67, 69	29-3651.40	73	29-3706.100	87	29-3708.90	87		
29-3610.01	64, 66-67	29-3627.55	67, 69	29-3651.45	73	29-3706.110	87	29-3709.50	86	<b>30</b>	
29-3610.02	66	29-3627.60	67, 69	29-3651.55	70, 73	29-3706.120	83, 87	29-3709.60	83, 86	30-0009	114
29-3612.01	65-67	29-3627.65	64, 67, 69	29-3651.65	73	29-3706.180	87	29-3709.70	86	30-0010	114
29-3614.01	65-67	29-3627.70	67, 69	29-3651.75	73	29-3706.30	83, 87	29-3710.30	87	30-0011	114
29-3615.FL	65,67-68, 71-73	29-3627.75	69	29-3652.35	73	29-3706.40	83, 87	29-3710.40	87	30-0012	114
29-3615.PK	79, 81	29-3628.25	69	29-3652.40	73	29-3706.40PK	85	29-3710.50	87	30-0013	114
29-3625.25	69	29-3628.30	67, 69	29-3652.45	73	29-3706.50	83, 87	29-3710.60	83, 87	30-0014	114
29-3625.30	69	29-3628.35	67, 69	29-3652.55	70, 73	29-3706.50PK	85	29-3710.70	87	30-0015	114
29-3625.35	69	29-3628.40	67, 69	29-3652.65	73	29-3706.60	83-84, 87	29-3710.80	87	30-0016	114
29-3625.40	69	29-3628.45	67, 69	29-3652.75	73	29-3706.60PK	85	29-3710.90	87	30-0019	115

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
30-0020	115	30-0306	136	30-0643	100	30-1520	116	34-9404.US	201	40-0101	43
30-0021	115	30-0307	136	30-0644	100	30-1521	116	34-9408	200-201	40-0102	43
30-0022	115	30-0310	134	30-0645	100	30-1522	116	34-9408.US	201	40-0103	43
30-0023	115	30-0311	134	30-0648	100	30-1523	116			40-0104	45
30-0024	115	30-0312	137	30-0649	100	30-1524	116			40-0105	44-45
30-0025	115	30-0313	139	30-0651	104	30-1525	116	<b>39</b>		40-0115	45
30-0026	115	30-0314	139	30-0652	104	30-1530	116	39-4000.GC	298-299	40-0116	44-45
30-0027	115	30-0315	137	30-0653	104	30-1531	116	39-4001	298-299	40-0116.24	46-47
30-0028	115	30-0316	137	30-0662	103	30-1532	116	39-4002	298-299	40-0117	45
30-0170	118	30-0317	138	30-0665	103	30-1533	116	39-4003	298-299	40-0117.24	47
30-0190	118	30-0318	138	30-0666	103	30-1534	116	39-4004	298-299	40-0119	49
30-0191	118	30-0320	138	30-0667	103	30-1535	116	39-4005	298-299	40-0120	49
30-0192	118	30-0326	138	30-0668	103	30-1540	117	39-4009	298-299	40-0121	49
30-0215	113	30-0327	138	30-0670	103	30-1541	117	39-4010	298-299	40-0122	49
30-0260	113	30-0328	138	30-0671	103	30-1542	117	39-4011	298-299	40-0123	48
30-0261	113	30-0590	101	30-0760	102	30-1543	117	39-4012	298-299	40-0124	48
30-0262	113	30-0592	101	30-0761	102	30-1544	117	39-4015	298-299	40-0125	48
30-0265	113	30-0600	101	30-0762	102	30-1545	117	39-4016	298-299	40-0126	48
30-0266	113	30-0602	101	30-0763	102	30-1550	117	39-4017	298-299	40-0127	48
30-0267	113	30-0605	101	30-0764	102	30-1551	117	39-4018	298-299	40-0128	48
30-0270	134	30-0607	101	30-0765	102	30-1552	117	39-4019	298-299	40-0129	48
30-0275	134	30-0610	101	30-0770	103	30-1553	117			40-0130	49
30-0280	134	30-0612	101	30-0772	103	30-1554	117			40-0135	49
30-0281	134	30-0615	101	30-0774	103	30-1555	117	<b>40</b>		40-0136	45
30-0282	134	30-0617	101	30-0775	103	30-1560	117	40-0020	51	40-0137	45
30-0283	135	30-0620	102	30-0791	105	30-1561	117	40-0035	51	40-0140	49
30-0284	135	30-0622	102	30-0820	104	30-1562	117	40-0053	51	40-0141	49
30-0285	135	30-0630	100	30-0822	104	30-1563	117	40-0054	51	40-0142	49
30-0297	139	30-0631	100	30-1510	116	30-1564	117	40-0055	51	40-0150	43
30-0299	135	30-0635	101	30-1511	116	30-1565	117	40-0056	51	40-0151	43
30-0300	135	30-0636	105	30-1512	116			40-0057	51	40-0155	50
30-0301	136	30-0640	100	30-1513	116			40-0098	43	40-0155.08	50
30-0304	136	30-0641	100	30-1514	116	<b>34</b>		40-0099	43	40-0165	50
30-0305	136	30-0642	100	30-1515	116	34-9404	200-201	40-0100	43	40-0166	50



Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
40-0167	50	40-1018B3	33	40-1023B1	33	40-1120A5	33	40-1218A2	25	40-1220C1	25
40-0168	50	40-1018B4	33	40-1023B2	33	40-1120A6	33	40-1218A2K	27	40-1220C1K	27
40-0180	48	40-1018B5	33	40-1023B3	33	40-1120B1	33	40-1218A3	25	40-1220C2	25
40-0181	48	40-1018B6	33	40-1023B4	33	40-1120B2	33	40-1218A3K	27	40-1220C2K	27
40-0182	48	40-1018C1	33	40-1023B5	33	40-1120B3	33	40-1218A4	25	40-1220C3	25
40-0185	48	40-1018C2	33	40-1023B6	33	40-1120B4	33	40-1218A4K	27	40-1220C3K	27
40-0185.40	48	40-1018C3	33	40-1023C1	33	40-1120B5	33	40-1218A5	25	40-1220C4	25
40-0186	48	40-1018C4	33	40-1023C2	33	40-1120B6	33	40-1218A5K	27	40-1220C4K	27
40-0186.40	48	40-1018C5	33	40-1023C3	33	40-1120C1	33	40-1218A6	25	40-1220C5	25
40-0187	48	40-1018C6	33	40-1023C4	33	40-1120C2	33	40-1218A6K	27	40-1220C5K	27
40-0187.40	48	40-1020A1	33	40-1023C5	33	40-1120C3	33	40-1218C1	25	40-1220C6	25
40-0190	44-45	40-1020A2	33	40-1023C6	33	40-1120C4	33	40-1218C1K	27	40-1220C6K	27
40-0191	47	40-1020A3	33	40-1118A1	33	40-1120C5	33	40-1218C2	25	40-1318A1	25
40-0192	47	40-1020A4	33	40-1118A2	33	40-1120C6	33	40-1218C2K	27	40-1318A1K	27
40-0193	46-47	40-1020A5	33	40-1118A3	33	40-1123A1	33	40-1218C3	25	40-1318A2	25
40-0194	47	40-1020A6	33	40-1118A4	33	40-1123A2	33	40-1218C3K	27	40-1318A2K	27
40-0195	46-47	40-1020B1	33	40-1118A5	33	40-1123A3	33	40-1218C4	25	40-1318A3	25
40-0199	52	40-1020B2	33	40-1118A6	33	40-1123A4	33	40-1218C4K	27	40-1318A3K	27
40-0199.EK	52	40-1020B3	33	40-1118B1	33	40-1123A5	33	40-1218C5	25	40-1318A4	25
40-0200	53	40-1020B4	33	40-1118B2	33	40-1123A6	33	40-1218C5K	27	40-1318A4K	27
40-0201	53	40-1020B5	33	40-1118B3	33	40-1123B1	33	40-1218C6	25	40-1318A5	25
40-0205	53	40-1020B6	33	40-1118B4	33	40-1123B2	33	40-1218C6K	27	40-1318A5K	27
40-0207	52	40-1020C1	33	40-1118B5	33	40-1123B3	33	40-1220A1	25	40-1318A6	25
40-0208	52	40-1020C2	33	40-1118B6	33	40-1123B4	33	40-1220A1K	27	40-1318A6K	27
40-0210	53	40-1020C3	33	40-1118C1	33	40-1123B5	33	40-1220A2	25	40-1318C1	25
40-0211	53	40-1020C4	33	40-1118C2	33	40-1123B6	33	40-1220A2K	27	40-1318C1K	27
40-1018A1	33	40-1020C5	33	40-1118C3	33	40-1123C1	33	40-1220A3	25	40-1318C2	25
40-1018A2	33	40-1020C6	33	40-1118C4	33	40-1123C2	33	40-1220A3K	27	40-1318C2K	27
40-1018A3	33	40-1023A1	33	40-1118C5	33	40-1123C3	33	40-1220A4	25	40-1318C3	25
40-1018A4	33	40-1023A2	33	40-1118C6	33	40-1123C4	33	40-1220A4K	27	40-1318C3K	27
40-1018A5	33	40-1023A3	33	40-1120A1	33	40-1123C5	33	40-1220A5	25	40-1318C4	25
40-1018A6	33	40-1023A4	33	40-1120A2	33	40-1123C6	33	40-1220A5K	27	40-1318C4K	27
40-1018B1	33	40-1023A5	33	40-1120A3	33	40-1218A1	25	40-1220A6	25	40-1318C5	25
40-1018B2	33	40-1023A6	33	40-1120A4	33	40-1218A1K	27	40-1220A6K	27	40-1318C5K	27



Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
40-1318C6	25	40-1720F4	21	40-1818G1	20	40-1820V5	20	40-1825U4	20	40-1830G3	20
40-1318C6K	27	40-1720G3	21	40-1818G2	20	40-1823F1	20	40-1825U5	20	40-1830G4	20
40-1320A1	25	40-1720G3.5	21	40-1818G3	20	40-1823F2	20	40-1825V1	20	40-1830G5	20
40-1320A1K	27	40-1720G4	21	40-1818G4	20	40-1823F3	20	40-1825V2	20	40-1830U1	20
40-1320A2	25	40-1723F3	21	40-1818G5	20	40-1823F4	20	40-1825V3	20	40-1830U2	20
40-1320A2K	27	40-1723F3.5	21	40-1818U1	20	40-1823F5	20	40-1825V4	20	40-1830U3	20
40-1320A3	25	40-1723F4	21	40-1818U2	20	40-1823G1	20	40-1825V5	20	40-1830U4	20
40-1320A3K	27	40-1723G3	21	40-1818U3	20	40-1823G2	20	40-1828F1	20	40-1830U5	20
40-1320A4	25	40-1723G3.5	21	40-1818U4	20	40-1823G3	20	40-1828F2	20	40-1830V1	20
40-1320A4K	27	40-1723G4	21	40-1818U5	20	40-1823G4	20	40-1828F3	20	40-1830V2	20
40-1320A5	25	40-1726F3	21	40-1818V1	20	40-1823G5	20	40-1828F4	20	40-1830V3	20
40-1320A5K	27	40-1726F3.5	21	40-1818V2	20	40-1823U1	20	40-1828F5	20	40-1830V4	20
40-1320A6	25	40-1726F4	21	40-1818V3	20	40-1823U2	20	40-1828G1	20	40-1830V5	20
40-1320A6K	27	40-1726G3	21	40-1818V4	20	40-1823U3	20	40-1828G2	20	40-1918F1	21
40-1320C1	25	40-1726G3.5	21	40-1818V5	20	40-1823U4	20	40-1828G3	20	40-1918F2	21
40-1320C1K	27	40-1726G4	21	40-1820F1	20	40-1823U5	20	40-1828G4	20	40-1918F3	21
40-1320C2	25	40-1730F3	21	40-1820F2	20	40-1823V1	20	40-1828G5	20	40-1918F4	21
40-1320C2K	27	40-1730F3.5	21	40-1820F3	19-20	40-1823V2	20	40-1828U1	20	40-1918F5	21
40-1320C3	25	40-1730F4	21	40-1820F4	20	40-1823V3	20	40-1828U2	20	40-2380	31
40-1320C3K	27	40-1730G3	21	40-1820F5	20	40-1823V4	20	40-1828U3	20	40-2400	37
40-1320C4	25	40-1730G3.5	21	40-1820G1	20	40-1823V5	20	40-1828U4	20	40-2401	37
40-1320C4K	27	40-1730G4	21	40-1820G2	20	40-1825F1	20	40-1828U5	20	40-2402	37
40-1320C5	25	40-1736F3	19, 21	40-1820G3	20	40-1825F2	20	40-1828V1	20	40-2410	37
40-1320C5K	27	40-1736F3.5	21	40-1820G4	20	40-1825F3	20	40-1828V2	20	40-2411	37
40-1320C6	25	40-1736F4	21	40-1820G5	20	40-1825F4	20	40-1828V3	20	40-2412	37
40-1320C6K	27	40-1736G3	21	40-1820U1	20	40-1825F5	20	40-1828V4	20	40-2420	37
40-1718F3	21	40-1736G3.5	21	40-1820U2	20	40-1825G1	20	40-1828V5	20	40-2421	37
40-1718F3.5	21	40-1736G4	21	40-1820U3	20	40-1825G2	20	40-1830F1	20	40-2422	37
40-1718F4	21	40-1800	19, 21	40-1820U4	20	40-1825G3	20	40-1830F2	20	40-2440	37
40-1718G3	21	40-1818F1	20	40-1820U5	20	40-1825G4	20	40-1830F3	20	40-2441	37
40-1718G3.5	21	40-1818F2	20	40-1820V1	20	40-1825G5	20	40-1830F4	20	40-2442	37
40-1718G4	21	40-1818F3	20	40-1820V2	20	40-1825U1	20	40-1830F5	20	40-2445	37
40-1720F3	21	40-1818F4	20	40-1820V3	20	40-1825U2	20	40-1830G1	20	40-2446	37
40-1720F3.5	21	40-1818F5	20	40-1820V4	20	40-1825U3	20	40-1830G2	20	40-2447	37



Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
40-2450	36-37	40-2560.45	42	40-2625.14	38	40-2636.16	38	40-3010.16K	39	40-3223A1	17
40-2451	37	40-2561	42	40-2625.16	38	40-2636.19	38	40-3010.18K	39	40-3223A2	17
40-2452	37	40-2561.45	42	40-2625.16Z	29	40-2637.14	38	40-3011.16K	39	40-3223A3	17
40-2460	37	40-2562	42	40-2625.18Z	29	40-2637.16	38	40-3011.18K	39	40-3223A4	17
40-2461	37	40-2562.45	42	40-2625.19	38	40-2637.19	38	40-3012.16K	39	40-3223A5	17
40-2462	37	40-2563	42	40-2626.14	38	40-2640.14	38	40-3012.18K	39	40-3223A6	17
40-2465	37	40-2563.45	42	40-2626.16	38	40-2640.16	38	40-3013.16K	39	40-3223C1	17
40-2466	37	40-2564	42	40-2626.16Z	29	40-2640.19	38	40-3013.18K	39	40-3223C2	17
40-2467	37	40-2564.45	42	40-2626.18Z	28-29	40-2641.14	38	40-3014.16K	39	40-3223C3	17
40-2470	37	40-2565	42	40-2626.19	38	40-2641.16	38	40-3014.18K	39	40-3223C4	17
40-2471	37	40-2565.45	42	40-2627.14	38	40-2641.19	38	40-3218A1	17	40-3223C5	17
40-2472	37	40-2570	41	40-2627.16	38	40-2642.14	38	40-3218A2	17	40-3223C6	17
40-2480	37	40-2570.14	41	40-2627.16Z	29	40-2642.16	38	40-3218A3	17	40-3318A1	17
40-2481	37	40-2571	41	40-2627.18Z	29	40-2642.19	38	40-3218A4	17	40-3318A2	17
40-2482	37	40-2571.14	41	40-2627.19	38	40-3000.16K	39	40-3218A5	17	40-3318A3	17
40-2485	37	40-2572	41	40-2630.14	38	40-3000.18K	39	40-3218A6	17	40-3318A4	17
40-2486	37	40-2572.14	41	40-2630.16	38	40-3001.16K	39	40-3218C1	17	40-3318A5	17
40-2487	37	40-2573	41	40-2630.16Z	29	40-3001.18K	39	40-3218C2	17	40-3318A6	17
40-2490	37	40-2573.14	41	40-2630.18Z	29	40-3002.16K	39	40-3218C3	17	40-3318C1	17
40-2491	37	40-2620.14	38	40-2630.19	38	40-3002.18K	39	40-3218C4	16-17	40-3318C2	17
40-2492	37	40-2620.16	38	40-2631.14	38	40-3003.16	38	40-3218C5	17	40-3318C3	16-17
40-2495	37	40-2620.16Z	29	40-2631.16	38	40-3003.18	38	40-3218C6	17	40-3318C4	17
40-2496	37	40-2620.18Z	29	40-2631.16Z	29	40-3004.16	38	40-3220A1	17	40-3318C5	17
40-2497	37	40-2620.19	38	40-2631.18Z	29	40-3004.18	38	40-3220A2	17	40-3318C6	17
40-2500	35	40-2621.14	38	40-2631.19	38	40-3005.16	38	40-3220A3	17	40-3320A1	17
40-2501	35	40-2621.16	38	40-2632.14	38	40-3005.18	38	40-3220A4	17	40-3320A2	17
40-2502	35	40-2621.16Z	29	40-2632.16	38	40-3006.16K	39	40-3220A5	17	40-3320A3	17
40-2510	35	40-2621.18Z	29	40-2632.16Z	29	40-3006.18K	39	40-3220A6	17	40-3320A4	17
40-2511	35	40-2621.19	38	40-2632.18Z	29	40-3007.16K	39	40-3220C1	17	40-3320A5	17
40-2512	35	40-2622.14	38	40-2632.19	38	40-3007.18K	39	40-3220C2	17	40-3320A6	17
40-2520	34-35	40-2622.16	38	40-2635.14	38	40-3008.16K	39	40-3220C3	17	40-3320C1	17
40-2521	35	40-2622.16Z	29	40-2635.16	38	40-3008.18K	39	40-3220C4	17	40-3320C2	17
40-2522	35	40-2622.18Z	29	40-2635.19	38	40-3009.16K	39	40-3220C5	17	40-3320C3	17
40-2560	42	40-2622.19	38	40-2636.14	38	40-3009.18K	39	40-3220C6	17	40-3320C4	17

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
40-3320C5	17	40-4305	149	40-7460.08	148	40-7731	147	40-7775	147	40-8155	157
40-3320C6	17	40-4306	149	40-7516.08GD	154	40-7732	147	40-7776	147	40-8156	157
40-3323A1	17	40-4307	149	40-7516.11GD	154	40-7733	147	40-7777	147	40-8157	157
40-3323A2	17	40-4308	149	40-7517.08	154	40-7734	147	40-7778	147	40-8158	157
40-3323A3	17	40-4309	149	40-7517.08GD	154	40-7736	147	40-7779	147	40-8159	157
40-3323A4	17	40-4310	149	40-7517.11	154	40-7737	147	40-7780	147	40-8160	157
40-3323A5	17	40-4320	149	40-7517.11GD	154	40-7738	147	40-7781	147	40-8161	157
40-3323A6	17	40-4321	149	40-7518.08	154	40-7739	147	40-7782	147	40-8162	157
40-3323C1	17	40-4322	149	40-7518.11	154	40-7741	147	40-7793	147	40-8170	157
40-3323C2	17	40-4323	149	40-7519.08	154	40-7742	147	40-7794	147	40-8171	157
40-3323C3	17	40-4324	149	40-7519.08GD	154	40-7743	147	40-7799	147	40-8172	157
40-3323C4	17	40-4325	149	40-7519.11	154	40-7744	147	40-8070	154	40-8173	157
40-3323C5	17	40-4326	149	40-7519.11GD	154	40-7746	147	40-8071	154	40-8174	157
40-3323C6	17	40-4327	149	40-7700	146	40-7747	147	40-8072	154	40-8175	157
40-4270	148	40-4328	149	40-7701	146	40-7748	147	40-8073	154	40-8176	157
40-4271	148	40-4329	149	40-7702	146	40-7749	147	40-8080	155	40-8178	157
40-4272	148	40-4330	149	40-7703	146	40-7751	147	40-8081	155	40-8179	157
40-4280	149	40-4462	148	40-7704	146	40-7752	147	40-8082	155	40-8180	157
40-4281	149	40-4464	148	40-7706	146	40-7753	147	40-8083	155	40-8220	157
40-4282	149	40-4466	148	40-7707	146	40-7760	147	40-8084	155	40-8221	157
40-4283	149	40-4468	148	40-7708	146	40-7761	147	40-8085	155	40-8222	157
40-4284	149	40-4470	148	40-7709	146	40-7762	147	40-8086	155	40-8223	157
40-4285	149	40-4472	148	40-7711	146	40-7763	147	40-8090	155	40-8280	151
40-4286	149	40-4474	148	40-7712	146	40-7764	147	40-8091	155	40-8281	151
40-4287	149	40-4476	148	40-7713	146	40-7765	147	40-8092	155	40-8285	151
40-4288	149	40-4478	148	40-7714	146	40-7766	147	40-8093	155	40-8290	152
40-4289	149	40-4480	148	40-7716	146	40-7767	147	40-8094	155	40-8291	152
40-4290	149	40-7450	148	40-7717	146	40-7768	147	40-8095	155	40-8390	152
40-4291	149	40-7451	148	40-7718	146	40-7769	147	40-8096	155	40-8391	152
40-4300	149	40-7452	148	40-7719	146	40-7770	147	40-8150	157	40-8392	152
40-4301	149	40-7453	148	40-7721	146	40-7771	147	40-8151	157	40-8393	152
40-4302	149	40-7460.02	148	40-7722	146	40-7772	147	40-8152	157	40-8420	157
40-4303	149	40-7460.04	148	40-7723	146	40-7773	147	40-8153	157	40-8421	157
40-4304	149	40-7460.06	148	40-7730	147	40-7774	147	40-8154	157	40-8422	157



## 40 - 41

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
40-8423	157	40-8490	156	40-9044	150	41-1113	125	41-1150	125	41-1213	125
40-8424	157	40-8491	156	40-9045	150	41-1114	125	41-1151	125	41-1214	125
40-8425	157	40-8492	156	40-9046	150	41-1115	125	41-1153	125	41-1215	125
40-8426	157	40-8493	156	40-9047	150	41-1116	125	41-1154	125	41-1216	125
40-8427	157	40-8494	156	40-9050	150	41-1117	125	41-1155	125	41-1217	125
40-8449	156	40-8495	155	40-9051	150	41-1118	125	41-1156	125	41-1218	125
40-8449.04	156	40-8496	155	40-9052	150	41-1120	125	41-1157	125	41-1219	125
40-8449.06	156	40-8497	155	40-9053	150	41-1121	125	41-1158	125	41-1220	125
40-8449.43	156	40-8498	155	40-9054	150	41-1122	125	41-1159	125	41-1221	125
40-8450	156	40-8499	155	40-9055	150	41-1123	125	41-1160	125	41-1222	125
40-8451	156	40-8510	151	40-9056	150	41-1124	125	41-1161	125	41-1223	125
40-8451.31	156	40-8512	151	40-9057	150	41-1125	125	41-1162	125	41-1224	125
40-8451.37	156	40-8514	151	40-9901	158	41-1126	125	41-1163	125	41-1225	125
40-8451.43	156	40-8516	151	40-9902	158	41-1127	125	41-1164	125	41-1226	125
40-8452	156	40-8613	152	40-9903	158	41-1128	125	41-1165	125	41-1227	125
40-8452.31	156	40-8620	153	40-9904	158	41-1129	125	41-1166	125	41-1228	125
40-8452.37	156	40-8621	153	40-9905	158	41-1130	125	41-1167	125	41-1229	125
40-8453	156	40-8622	153	40-9910	158	41-1131	125	41-1168	125	41-1230	125
40-8454	156	40-8910	159	40-9911	158	41-1132	125	41-1169	125	41-1231	125
40-8454.31	156	40-8915	159	40-9912	158	41-1133	125	41-1175	125	41-1232	125
40-8454.37	156	40-8941	158	40-9913.04	158	41-1134	125	41-1176	125	41-1233	125
40-8455	156	40-8941.KB	158	40-9913.07	158	41-1137	125	41-1200	125	41-1234	125
40-8458.15	155	40-9030	150			41-1138	125	41-1201	125	41-1235	125
40-8458.20	155	40-9031	150			41-1139	125	41-1202	125	41-1236	125
40-8459	155	40-9032	150	<b>41</b>		41-1140	125	41-1203	125	41-1237	125
40-8460	155	40-9033	150	41-0252	40	41-1141	125	41-1204	125	41-1238	125
40-8461	155	40-9034	150	41-0262	40	41-1142	125	41-1205	125	41-1239	125
40-8462	155	40-9035	150	41-1015	136	41-1143	125	41-1206	125	41-1240	125
40-8463	155	40-9036	150	41-1053	136	41-1144	125	41-1207	125	41-1241	125
40-8464	155	40-9037	150	41-1100	124	41-1145	125	41-1208	125	41-1242	125
40-8465	155	40-9040	150	41-1102	124	41-1146	125	41-1209	125	41-1243	125
40-8480.04	156	40-9041	150	41-1110	125	41-1147	125	41-1210	125	41-1244	125
40-8480.06	156	40-9042	150	41-1111	125	41-1148	125	41-1211	125	41-1245	125
40-8480.07	156	40-9043	150	41-1112	125	41-1149	125	41-1212	125	41-1246	125

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
41-1247	125	41-3114	166	41-4106	165	41-4503	179	41-5134.TI	252	41-5652	257
41-1248	125	41-3115	166	41-4107	165	41-4506	171	41-5136	252	41-5653	257
41-1249	125	41-3120	166	41-4110	165	41-4507	171	41-5136.TI	252	41-5654	257
41-1250	125	41-3121	166	41-4111	165	41-4507/Y	170	41-5300	253	41-5655	257
41-1251	125	41-3122	166	41-4114	165	41-4508	171	41-5300.TI	253	41-5656	257
41-1252	125	41-3125	166	41-4115	165	41-4508/R	170	41-5306	253	41-5657	254, 257
41-1261	124	41-3126	166	41-4116	165	41-4509	171	41-5306.TI	253	41-5658	254, 257
41-2111	165	41-3130	166	41-4120	165	41-4510	171	41-5308	253	41-5659	257
41-2112	165	41-3131	166	41-4121	165	41-4511	171	41-5308.TI	253	41-5669	257
41-2120	165	41-3140	167	41-4125	165	41-4515	171	41-5320	253	41-6012	127, 294-295
41-2121	165	41-3141	167	41-4126	165	41-4516	171	41-5320.TI	253	41-6014	127, 294-295
41-2122	165	41-3142	167	41-4130	165	41-5012	252	41-5322	253	41-6019	127, 290-291
41-2123	165	41-3145	167	41-4131	165	41-5012.TI	252	41-5322.TI	253	41-6020	113
41-2200	179	41-3146	167	41-4400	168	41-5014	252	41-5324	253	41-6020.4	113
41-2201	179	41-3147	167	41-4401	168	41-5014.TI	252	41-5324.TI	253	41-6022	113
41-2202	179	41-3155	112	41-4402	168	41-5022	252	41-5500	252-253	41-6024	113
41-2203	179	41-3200/N	176	41-4403	168	41-5022.TI	252	41-5501	253	41-6030	122
41-2205	171	41-3208	171	41-4410	168	41-5024	252	41-5600	256	41-6031	122-123
41-2205/N	170	41-3209	171	41-4411	168	41-5024.TI	252	41-5602	256	41-6032	122-123
41-2206	171	41-3210	170-171	41-4414	168	41-5054	252	41-5604	255-256	41-6033	122-123
41-2207	171	41-3211	171	41-4415	169	41-5054.TI	252	41-5605	256	41-6034	122-123
41-2208	171	41-3215	171	41-4416	169	41-5112	252	41-5606	256	41-6035	122-123
41-2210	171	41-3216	171	41-4420	169	41-5112.TI	252	41-5607	256	41-6036	122-123
41-2211	171	41-3228	171	41-4421	169	41-5114	252	41-5608	255-256	41-6037	122-123
41-3100	166	41-3229	171	41-4422	169	41-5114.TI	252	41-5609	256	41-6038	122-123
41-3101	166	41-3230	171	41-4423	169	41-5116	252	41-5610	256	41-6039	122-123
41-3103	166	41-3231	171	41-4424	169	41-5116.TI	252	41-5612	255-256	41-6040	122-123
41-3104	166	41-3240	171	41-4426	169	41-5128	252	41-5613	255-256	41-6041	122-123
41-3105	166	41-3241	171	41-4430	169	41-5128.TI	252	41-5621	256	41-6042	122-123
41-3106	166	41-3245	171	41-4431	169	41-5130	252	41-5622	256	41-6043	122-123
41-3107	166	41-3246	171	41-4433	169	41-5130.TI	252	41-5623	256	41-6044	122-123
41-3110	166	41-4100	165	41-4500	178-179	41-5132	252	41-5624	255-256	41-6045	122-123
41-3111	166	41-4101	165	41-4501	179	41-5132.TI	252	41-5650	257	41-6046	122-123
41-3113	166	41-4105	165	41-4502	179	41-5134	252	41-5651	257	41-6047	122-123



## 41 - 77

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
41-6048	122-123	41-6142	130	41-6195	128	41-6290	122-123	41-7120	109	41-7850	258-259
41-6048L	122-123	41-6143	130	41-6196	128	41-6291	122-123	41-7122	109	41-7851	258-259
41-6049	122	41-6145	130	41-6197	128	41-6292	122-123	41-7124	109	41-7852	259
41-6070	127	41-6151	126	41-6198	128	41-6293	122-123	41-7126	109	41-7991	258-259
41-6071	127	41-6156	126	41-6200	128	41-6294	122-123	41-7130	109	41-7995	258-259
41-6072	127	41-6159	126	41-6201	128	41-6295	122-123	41-7131	109	41-8010	133
41-6073	127	41-6160	129	41-6210	130	41-6296	122-123	41-7132	109	41-8011	133
41-6074	127	41-6161	129	41-6212	130	41-6297	122-123	41-7133	109	41-8020	133
41-6075	127	41-6162	129	41-6214	130	41-6298	122-123	41-7134	109	41-8021	133
41-6076	127	41-6163	129	41-6216	130	41-6299	122-123	41-7135	109	41-8022	133
41-6077	127	41-6164	129	41-6218	130	41-6300	122-123	41-7199	110-111	41-8023	133
41-6080	127	41-6165	129	41-6220	130	41-6301	122-123	41-7200	111	41-8030	131
41-6081	127	41-6166	129	41-6222	130	41-6302	122-123	41-7202	110-111	41-8031	131
41-6082	127	41-6167	129	41-6224	130	41-6303	122-123	41-7203	111	41-8032	131
41-6083	127	41-6170	128	41-6230	129	41-6304	122-123	41-7204	110-111	41-8033	131
41-6090	127	41-6171	128	41-6232	129	41-6305	122-123	41-7205	110-111	41-8034	131
41-6091	127	41-6172	128	41-6234	129	41-6306	122-123	41-7207	111	41-8035	131
41-6092	127	41-6173	128	41-6236	129	41-6307	122-123	41-7208L	111	41-8036	131
41-6093	127	41-6174	128	41-6238	129	41-6308	122-123	41-7208M	111	41-8037	131
41-6100	130	41-6175	128	41-6240	129	41-6310	122	41-7208S	111	41-8038	132
41-6101	130	41-6176	128	41-6250	130	41-7075	106	41-7208X	111	41-8039	131
41-6102	130	41-6177	128	41-6251	130	41-7076	106	41-7209	111	41-8040	131
41-6103	130	41-6180	128	41-6252	130	41-7077	106	41-7211	110-111	41-8041	133
41-6104	130	41-6181	128	41-6253	130	41-7080	106, 108	41-7212	111	41-8042	133
41-6105	130	41-6182	128	41-6260	130	41-7083	106, 108	41-7215	110-111	41-8050	131
41-6110	129	41-6183	128	41-6265	129	41-7084	106, 108	41-7216	110-111	41-8051	131
41-6111	129	41-6184	128	41-6268	126	41-7086	108	41-7217	110-111	41-8052	131
41-6112	129	41-6185	128	41-6269	126	41-7090	106-107	41-7218	110-111	41-8053	131
41-6113	129	41-6186	128	41-6270	126	41-7091	106-107	41-7219	110-111	41-8054	132
41-6120	130	41-6187	128	41-6271	126	41-7092	107	41-7220	110-111	41-8055	132
41-6121	130	41-6190	128	41-6272	126	41-7095	106-107	41-7310	109	41-8056	132
41-6127	129	41-6191	128	41-6273	126	41-7096	107	41-7311	109	41-8057	132
41-6140	130	41-6192	128	41-6275	126	41-7105	106-107	41-7312	109	41-8070	132
41-6141	130	41-6193	128	41-6277	126	41-7105.TI	107	41-7313	109	41-8071	132

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
41-8072	132	75-0400	251	<b>77</b>		77-9117	321
41-8073	132	75-0401	251	77-0120.01	30	77-9118	321
41-8074	132	75-0408	251	77-3656	30	77-9119	321
41-8075	132	75-0409	251	77-7216.07	90	77-9120	321
41-8076	132	75-0410	251	77-7282	88	77-9121	321
41-8400	196	75-0411	251	77-7283	81	77-9122	321
41-8405	196	75-0412	251	77-7284	67	77-9123	321
41-8410	196	75-0413	251	77-7286	73	77-9124	321
41-8415	196	75-0414	251	77-7312	90	77-9125	321
41-9001	153	75-0415	251	77-8998	320-321	77-9147	323
41-9003	153	75-0416	249, 251	77-9000	321	77-9148	322-323
41-9005	153	75-0417	251	77-9002	321	77-9149	323
41-9006	153	75-0418	251	77-9010	320-321	77-9150	323
41-9007	153	75-0419	251	77-9011	321	77-9151	323
41-9008	153	75-0461	251	77-9012	321	77-9152	323
		75-0462	251	77-9013	321	77-9255	321
		75-0463	251	77-9017	320-321	77-9995	323
<b>75</b>		75-0464	251	77-9020	321		
75-0071	251	75-0465	251	77-9021	320-321		
75-0072	248, 251	75-0466	251	77-9022	321		
75-0073	251	75-0473	251	77-9023	321		
75-0074	251	75-0474	251	77-9024	321		
75-0287	251	75-0475	251	77-9025	321		
75-0323	251	75-0476	251	77-9026	321		
75-0325	251	75-0477	251	77-9089	322-323		
75-0326	251	75-0478	251	77-9090	322-323		
75-0327	251	75-0479	251	77-9094	323		
75-0328	251	75-0480	251	77-9095	323		
75-0329	251	75-0481	251	77-9096	323		
75-0330	251	75-0482	251	77-9097	323		
75-0396	251	75-0483	251	77-9098	323		
75-0397	251	75-0484	251	77-9105	322-323		
75-0398	249, 251			77-9106	323		
75-0399	251			77-9115	321		



<b>A</b>		Wound	258-259	Bone-splitting	52-53
Accessories, HF, Electrosurgery	200-203	Conchotome, detachable	28-29	Dilator	222-223
Approximator	251, 256	non detachable	31, 34-42	Dressing	212-221, 224-229, 234-235
Arm, Holding	106-108	Curette, Bone	123, 125, 148	Dressing, TC	212-221
		Set	146-147	for changing of blades	75-76, 81, 88, 90
		Bayonet	146-147	HF, Bipolar	200-203
<b>B</b>		Micro, Ring	125	HF, Bipolar, bayonet	202-203
Bipolar-Cable	200-203	Micro, Neuro	122-125	HF, Bipolar, Jeweller	202-203
Blade, Scalpel	292, 295	Spoon	132, 148-149, 154	Jeweller	222-223
Micro	293	Spoon, Enucleator	131	Micro	164, 166-171, 176-177, 190-196
Retractor	75, 77, 79	Spoon, Micro	129-130	Micro, Atraumatic	194-195
Retractor, Quick-connect	64-73	Spoon, Neuro	129-130, 132-133	Micro, bayonet	164, 166-167, 170-171
Bowl, Kidney	320-321	Cylinder, Stand	320-321	Micro, counterbalanced, Ring	192
Multi-Purpose	320-321			Micro, counterbalanced, Tying	190
Solution	322-323			Micro, Ring	164, 166-167, 176-177, 192-193
		<b>D</b>		Micro, Spoon	196
		Dilator, Vascular	126	Micro, Spoon, bayonet	168
		Dissector	140-142, 147	Micro, Tying	112, 166, 171, 190-191
		Dissector, Micro	122-123, 125, 129, 130-131	Needlepulling, TC, Atraumatic	210-211
		Separator	142	Rongeur	43-51
		Drain, Redon	296-297	Sponge	242-243
		Drill, Manual	298-299	Spoon, Shaft	196
		Driver, Screw, for Speculum	112	Surgical	230-235
				Surgical, TC	212-217
				Wire	58-59
				Wire-cutting	60-61
				Fork	130, 132
		<b>E</b>			
		Elevator	141, 151-153		
		Micro	122-123		
		<b>F</b>		<b>G</b>	
		Forceps, Applying	247-248, 251-259	Gouge	154-155
		Atraumatic	177, 194-195, 204-211	Guide, Ligature	127
		Bayonet	164, 166-167, 202-203, 228-229, 232-233		







## T - W

Spreader	94
for specula	112
<b>T</b>	
Tamper	158
Tissue Pick	126
Tray	67, 81, 84, 85, 88, 111, 122, 124, 147, 321
<b>W</b>	
Waxer, Bone, bayonet	146, 147
Wire Pliers	57-61
Twister	54-57
Instruments	54-59
Holder	58-59
Wound, Retractor	100-105

## A-C

<b>Aachen</b>		<b>AZURE™</b>		<b>Bonney</b>	
Spatula, Tissue	109	Headlight LED AZURE™Neo	319	Forceps, Surgical, TC	216-217
<b>Adson</b>		<b>Backhaus</b>		<b>Bruns</b>	
Forceps, Atraumatic	208-209	Clamp, Towel	244	Curette, Spoon	148
Dressing	226-227	<b>Badgley</b>		<b>Caspar-type</b>	
Dressing, TC	212-213	Retractor, Spinal	95	Dissector, Micro	129-130
Surgical	230-231	<b>Barron</b>		Hook, Exploration	127
Surgical, TC	212-213	Scalpel, Handle	290-291	Nerve-root	113
Holder, Needle	312-313	<b>Beckmann- Adson</b>		Specula Spreader Set	88
Hook	137	Retractor, Wound	103	Vertebral Specula	89
Needle, Ligature-carrier	135	<b>Berry</b>		Pusher, Suture	129
Raspatory	152	Holder, Needle, TC	55	Retractor	74-81, 88-91
Retractor, Wound	104	<b>Beyer</b>		Blade	74-81
<b>Adson-Broli</b>		Forceps, Rongeur	44-45	Distraction	92-93
Forceps, Dressing	224-225	<b>Biemer</b>		Speculum	88-90
Surgical	224	Clamp, Bulldog, Approximator	255-256	Rongeur	38
<b>Adson-Brown</b>		Bulldog, Micro	255-256	Tamper	15
Forceps, Dressing, TC	212-213	Forceps, Applying	255-256	<b>Castroviejo</b>	
Surgical	230-231	Retractor	126	Holder, Needle	308-309
<b>Adson-Micro</b>		<b>Blalock</b>		<b>Cobb</b>	
Forceps, Dressing	226-227	Hook	136	Curette, Bone	150
Surgical	231	<b>Boehler</b>		Elevator	153
Surgical, TC	213	Forceps, Bone-splitting	53	Gouge, Spinal	154
<b>Allaines</b>		Rongeur	43	<b>Cone</b>	
Scissors	280-281	Hook, Skin	139	Retractor, Wound	100
<b>Anderson-Adson</b>		Scissors, Dissecting	284-285	<b>Contour</b>	
Retractor, Wound	101			Retractor, Wound	103



## C-H

<b>Cooley</b> Forceps, Atraumatic	206-207	<b>Hook</b>	134	<b>Eufrate-Pasque</b> Holder, Needle, TC	306-307
<b>Cope</b> Hook, Trachea	118	<b>Davis</b> Spatula	141	<b>Evans</b> Forceps, Dressing	214-215
<b>Cottle</b> Chisel Mallet	157 159	<b>Deaver</b> Scissors	282-283	<b>Fahlbusch</b> Curette, Spoon Scissors, Micro, Shaft	132 196
<b>Crile</b> Hook	135	<b>DeBakey</b> Forceps, Atraumatic Holder, Needle, TC Structurae™, Forceps, Atraumatic	204-207 304-305 177	<b>Fairgrip™</b> Curette Bone Micro Micro, Ring Dissector, Micro Handle Bayonet	146-147 125, 147 125 125 125 124 124
<b>Crile-Wood</b> Holder, Needle Needle, TC	312-313 304-305	<b>DeVilbiss</b> Forceps	52	Hook Knife Lanzette Micro Pulling Sickle Needle	125, 146-147 125 125 125 125 125 125
<b>Cushing</b> Elevator "Little Joker" Forceps, Atraumatic Dressing Dressing, TC Surgical Hook, Vessel Raspatory Rongeur	151 208-209 226-227 220-221 232-233 136 152 37	<b>Diethrich</b> Clamp, Bulldog Foceps, Atraumatic Holder, Needle, TC	246-247 204-207 309	Probe Tray, Sterilization Waxer, Bone	125, 147 147
<b>Cushing-Landolt</b> Retractor, Speculum	112	<b>Dingo</b> Clamp, Bulldog	248-250	<b>Fairgrip™ ultra</b> Forceps, Micro, Ring Micro, Typing Micro, Atraumatic Micro, counterbalanced, Ring Micro, counterbalanced, Tying	192-193 190-191 194-195 192 190
<b>Dale</b> Forceps, Rongeur	50	<b>Dorsey</b> Dissector, Separator	142		
<b>Dandy</b> Clamp, Artery	240-241	<b>Echlin</b> Forceps, Rongeur	49		
		<b>Elsberg</b> Cannula, Suction	316-317		
		<b>Epstein</b> Curette, Spoon	148		

Holder, Needle, Micro	186-188	<b>Gelpi</b>		<b>Hajek</b>	
Holder, Needle, Micro, TC	189, 308-309	Retractor, Wound	105	Mallet	159
Scalpel, Handle for micro-knives	293				
<b>Featherlight</b>		<b>Gerald</b>		<b>Halstead</b>	
Clamp, Bulldog	246-247	Forceps, Atraumatic	208-209	Clamp, Mosquito	236-237
		Dressing	228-229	Clamp, Mosquito, Micro	236-237
<b>Ferris-Smith</b>		Dressing, TC	214-215		
Rongeur	34-35	Surgical	232-233	<b>Hardy</b>	
		Surgical, TC	214-215	Curette, Spoon	131, 133
				Fork	132
<b>Fisch</b>		<b>Giannini</b>		<b>Hardy-Fahlbusch</b>	
Hook, Micro	130	Holder, Needle	308-309	Dissector	131
<b>Foerster</b>		<b>Gigli (Olivecrona)</b>		<b>Hartmann</b>	
Forceps, Organ	243	Saw, Wire	296-297	Hook	139
Sponge	243			<b>Heifetz</b>	
<b>Frazier</b>		<b>Gillies</b>		Spatula, Tissue	109
Cannula, Suction	316-317	Forceps, Dressing	228-229		
Hook	138	Surgical	234-235	<b>Hepp-Scheidel</b>	
Scissors	288-289	Hook	138	Holder, Needle, Micro, TC	308-309
<b>Freer</b>		<b>Goldman-Fox</b>		Structurae™, Holder, Needle	174-175
Elevator	141	Scissors, TC	272-273		
<b>French-Eye</b>		<b>Graham</b>		<b>Hess</b>	
Holder, Needle, TC	306-307	Hook	135	Hook	113
<b>Fukushima</b>		<b>Green</b>		<b>Hoer</b>	
Cannula, Suction	316-317	Clamp, Tube-Holding	244-245	Hook	134
<b>Geister</b>		<b>Gross-Maier</b>		<b>Hoffmann</b>	
Rongeur	28-29	Forceps, Sponge	243	Forceps, Rongeur	47
		<b>Gruenwald</b>		<b>Honolulu</b>	
		Rongeur	37	Retractor	97



## H - O

<b>Hoesel (Zweifel)</b>		<b>Kelly</b>		<b>Lambotte</b>	
Holder, Needle, TC	310-311	Clamp, Artery	240-241	Osteotome	157
<b>Hosobuchi</b>		<b>Kerrison</b>		Osteotome, Mini	157
Fork, Spatula	132	Punch, detachable	24-27	<b>Landolt</b>	
<b>Hudson</b>		not detachable	32-33	Curette, Spoon	131, 132
Drill, Manual	298-299	360°, detachable	20-21	Forceps	112
<b>Inge</b>		<b>Key</b>		Hook	132
Retractor	94	Elevator	151	Spreader, for Speculum	112
<b>Intracardiac</b>		<b>Kilner</b>		<b>Landolt-Reulen</b>	
Holder, Needle, TC	306-307	Hook, Skin	139	Curette, Spoon	132
<b>Izzat</b>		<b>Kleinert-Kutz</b>		Hook	132
Wire-holder	58-59	Hook, Skin	138	Raspatory	132
<b>Jackson</b>		<b>Kocher</b>		<b>Langenbeck</b>	
Hook	118	Clamp, Artery	238-239	Elevator	151
<b>Jacobsen</b>		Retractor, Manual	117	Retractor, Manual	114
Clamp, Dissection	240-241	<b>Kocher-Langenbeck</b>		<b>Leksell</b>	
Knife	126, 130	Retractor, Manual	115	Forceps, Rongeur	48
Handle	126	<b>Koos</b>		<b>Lemmon</b>	
Probe, Ball	126	Knife	129	Holder, Needle, TC	306-307
Pusher, Suture	130	<b>Krayenbuehl</b>		<b>Lexer</b>	
<b>Jameson</b>		Hook	127	Gouge	155
Scissors, Dissection	285	Probe, Ball	127	Osteotome	156
<b>Jones</b>		<b>K-Rex™</b>		<b>Lexer-Mini</b>	
Clamp, Towel	244-245	Rongeur	16-17	Gouge	155
				Osteotome	156
				<b>Liston</b>	
				Forceps, Bone-splitting	52

<b>Lorna</b> Clamp, Towel	244	<b>Mayo-Hegar</b> Holder, Needle Holder, Needle, TC	312-313 304-305	TC	266-269
<b>Love</b> Hook	113	<b>Mayo-Lexer</b> Scissors, Operation Scissors, TC	280-281 270-271	<b>Metzenbaum-Premie</b> Scissors TC	264-265
<b>Love-Gruenwald</b> Rongeur	36-37	<b>Mayo-Stille</b> Scissors, Operation Scissors, Operation, TC	274-275 270-271	<b>Mini-Ryder</b> Holder, Needle, TC	306-307
<b>Luer-Friedmann</b> Forceps, Rongeur	51	<b>McCulloch</b> Retractor Blade Tray, Sterilization	82-87 82-87 84-85	<b>Miskimon</b> Retractor, Wound	104
<b>Luer-Stille</b> Forceps, Rongeur	43	<b>McDonald</b> Dissector	142	<b>Mueller</b> Clamp, Bulldog, Approximator Clamp, Bulldog, Micro	255-256 254, 257
<b>Lukens</b> Hook	118	<b>McIndoe</b> Forceps, Bone-splitting Dressing Dressing, TC Surgical	53 228-229 220-221 234-235	<b>Nicola</b> Curette, Spoon Forceps, Spoon, Shaft Raspatory Scissors, Micro, Shaft	133 196 133 196
<b>Markham-Meyering</b> Retractor, Wound	100	<b>Mehdorn</b> Forceps, Applying	257	<b>Norfolk &amp; Norwich</b> Retractor, Wound	105
<b>Marquardt</b> Forceps, Rongeur	44-45	<b>Metzenbaum</b> Scissors, Dissection TC	274-275, 278-279 266-267	<b>Obonek-Yasargil</b> Fork	130
<b>Mathieu</b> Holder, Needle, TC Pliers, TC	310-311 56-57	<b>Metzenbaum-Fino</b> Scissors, Dissection	274-275, 278-279	<b>Obwegeser</b> Retractor, Manual	113
<b>Mayfield</b> Forceps, Rongeur	46-47	<b>Mayo</b> Clip, Sterilization Scissors, Operation Scissors, TC	323 280-281 270-271	<b>Ochsner</b> Clamp, Artery	238-239
				<b>Oehler</b> Forceps, Surgical	216-217



## O-Z

<b>Oldberg</b> Rongeur, Conchotome	41	Forceps, Applying	258-259	<b>Schmieden-Taylor</b> Scissors	288-289
<b>Olivecrona</b> Dissector Scissors	142 288-289	<b>Ray</b> Curette, Spoon	133	<b>Schramm</b> Probe, Ball-point	318
<b>Papavero-Caspar</b> Retractor, Speculum	112	<b>Rees</b> Rasp, TC	160	<b>Schwartz</b> Clamp, Bulldog Forceps, Applying	246-247 247
<b>Peers</b> Clamp, Towel	244-245	<b>Reynolds</b> Scissors	276-277, 284-285	<b>Scoville-Haverfield</b> Retractor Blade	96 96
<b>Penfield</b> Fairgrip™, Dissector	147	<b>Roettgen-Ruskin</b> Forceps, Rongeur	46-47	<b>Semken</b> Forceps, Dressing Surgical	228-229 234-235
<b>Potts</b> Fairgrip™ultra, Scissors, Micro	184-185	<b>Rubio</b> Holder, Needle, TC	55	<b>Senning</b> Clamp, Bulldog	248, 250
<b>Potts-Smith</b> Forceps, Dressing Dressing, TC Surgical	234-235 218-219 235	<b>Ruskin</b> Forceps, Rongeur	44-45	<b>Skinner</b> Forceps, Surgical, TC	216-217
<b>Ragnell-Davis</b> Retractor, Manual	118	<b>Ruskin-Liston</b> Forceps, Bone-splitting	53	<b>Smith-Peterson</b> Forceps, Rongeur Gouge	48 155
<b>Ragnell-Kilner</b> Scissors, Dissection	276-277, 285	<b>Sachs</b> Hook	135, 137	<b>Smithwick</b> Hook	134
<b>Rampley</b> Forceps, Sponge	243	<b>Samii</b> Knife Lanzette	128 128	<b>Spurling</b> Rongeur	37
<b>Raney</b> Clip, Wound	258-259	<b>Schaedel</b> Clamp, Towel	244-245		
		<b>Schlegel</b> Gouge	155		



<b>Stellbrink</b>		<b>Toennis-Adson</b>		<b>Yasargil</b>	
Forceps, Rongeur	51	Scissors	274 - 275	Arm, Holding	106 - 107
<b>Stevens</b>		TC	264 - 265	Cannula, Suction	316 - 317
Scissors	276 - 277	<b>Tohoku</b>		Clamp, Bulldog	252
<b>Stille</b>		Clamp, Towel	244 - 245	Bulldog, Mini	253
Forceps, Rongeur	49	<b>Ulrich</b>		Forceps, Applying	252 - 253
<b>Stille-Ruskin</b>		Forceps, Sponge	243	Micro, bayonet	166, 167
Forceps, Rongeur	49	<b>USA-Model</b>		Guide, Ligature	127
<b>Streli</b>		Forceps, Dressing, TC	216 - 217	Holder, Needle, Micro, bayonet	165
Scissors, Dissecting	286 - 287	<b>Volkman</b>		Hook, Galea	258 - 259
<b>Structurae™</b>		Retractor, Manual	116	Knife, bayonet	129
Forceps, Micro	176	<b>Wagner</b>		Raspatory	129 - 130
Micro, bayonet	170 - 171	Rongeur	31	Scissors, Dissection, bayonet	165
Micro, Ring	176 - 177	<b>Wangensteen</b>		Micro, bayonet	165
Holder, Needle, Micro	174 - 175	Forceps, Dressing, TC	220 - 221	<b>Yasargil-Nicole</b>	
Needle, Micro, bayonet	171	<b>Watson-Cheyne</b>		Forceps, Grasping, Shaft	196
Needle, Micro, One-Finger	179	Dissector	141	<b>Yasargil-Samii</b>	
Scissors, Micro	172 - 173	<b>Weitlaner</b>		Forceps, bayonet	166
Micro-bayonet	170 - 171	Retractor, Wound	101 - 102	<b>Yasargil-Vannas</b>	
Micro, One-Finger	178 - 179	<b>Wilde (Weil-Blakesley)</b>		Scissors, Micro, bayonet	165
<b>Strully</b>		Rongeur	42	<b>Zaufal-Jansen</b>	
Scissors	288 - 289	<b>Williams</b>		Forceps, Rongeur	46 - 47
<b>Sypert</b>		Retractor	99	<b>Zielke</b>	
Forceps, Rongeur	50			Curette, Spoon	154
<b>Toennis</b>				Forceps, Rongeur	51
Dissector	141				
Knife	296 - 297				



## Conversion scale

To Convert From	To	Multiply By
Ounces (AVDP.)	Grams	28.349
Ounces (APOTH.)	Grams	31.103
Grains	Grams	0.065
Pounds (AVDP.)	Kilograms	0.454
Inches	Centimeters	2.54
Feet	Meters	0.305
Yards	Meters	0.914
Ounces (U.S. Fluid)	Cubic Centimeters	29.574
Ounces (British Fluid)	Cubic Centimeters	28.414
Quarts (U.S. Fluid)	Liters	0.946
Cubic Inches	Cubic Centimeters	16.387
Grams	Grains	15.432
Grams	Ounces (AVDP.)	0.035
Grams	Ounces (APOTH.)	0.032
Kilograms	Pounds (AVDP.)	2.205
Millimeters	Inches	0.039
Centimeters	Inches	0.394
Meters	Feet	3.281
Cubic Centimeters	Cubic Inches	0.061
Cubic Centimeters (Fluid)	Ounces (U.S. Fluid)	0.034
Liters	Quarts (U.S. Fluid)	1.057

## Comparative scales or gauges

For Measuring the Diameter of Catheters, Sounds and Bougies

Diameters in				Diameters in			
Millimeters	American	French	English	Millimeters	American	French	English
1-3	–	1	–	7	14	21	–
1-2	1	–	–	7 1-3	–	22	12
2-3	–	2	–	7 1-2	15	–	–
1	2	3	–	7 2-3	–	23	13
1 1-3	–	4	–	8	16	24	–
1 1-2	3	–	–	8 1-3	–	25	14
1 2-3	–	5	–	8 1-2	17	–	–
2	4	6	–	8 2-3	–	26	15
2 1-63	–	7	1	9	18	27	16
2 1-2	5	–	–	9 1-3	–	28	17
2 2-3	–	8	2	9 1-2	19	–	–
3	6	9	3	9 2-3	–	29	–
3 1-3	–	10	–	10	20	30	18
3 1-2	7	–	–	10 1-3	–	31	19
3 2-3	–	11	4	10 1-2	21	–	–
4	8	12	5	10 2-3	–	32	20
4 1-3	–	13	–	11	22	33	21
4 1-2	9	–	–	11 1-3	–	34	22
4 2-3	–	14	–	11 1-2	23	–	–
5	10	15	6	11 2-3	–	35	23
5 1-3	–	16	7	12	24	36	24
5 1-2	11	–	–	12 1-3	–	37	25
5 2-3	–	17	8	12 1-2	25	–	–
6	12	18	9	12 2-3	–	38	26
6 1-3	–	19	10	13	26	39	27
6 1-2	13	–	–	13 1-3	–	40	28
6 2-3	–	20	11				

## Popular Instrument lengths approximate conversion

cm	2.5	3	4	4.5	5	5.5	6.5	7	7.5	9	10
inch"	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/2	4

cm	11.5	12	12.5	14	14.5	15	16.5	17	18	18.5	19
inch"	4 1/2	4 3/4	5	5 1/2	5 3/4	6	6 1/2	6 3/4	7	7 1/4	7 1/2

cm	19.5	20.5	21.5	22	23	24	25.5	26.5	28	29	30.5
inch"	7 3/4	8	8 1/2	8 3/4	9	9 1/2	10	10 1/2	11	11 1/2	12

centimeter



inch

The better way to operate™

# GEISTER®



## GEISTER MEDIZINTECHNIK GMBH

Föhrenstrasse 2 | D-78532 Tuttlingen | Germany

☎ +49 7461/966240 | ☎ +49 7461/9662422

[www.geister.com](http://www.geister.com) | [info@geister.com](mailto:info@geister.com)



© Geister Medizintechnik GmbH 2021 | All rights reserved | Ref-Nr: 99-9041 | Rev. E

Subject to change without notice. Some products in this catalogue may not be approved in your country. Please contact your local dealer for more information.