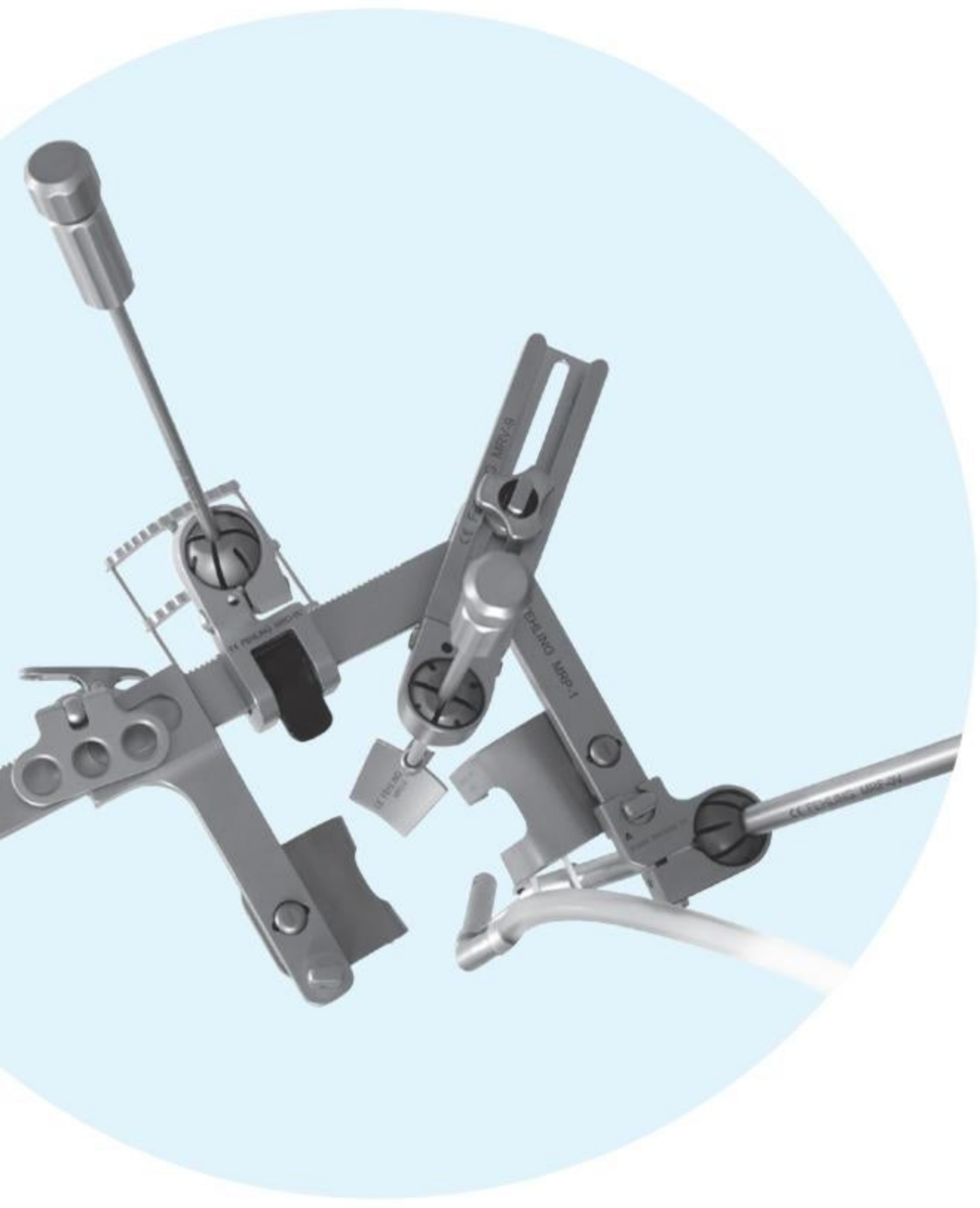




# FEHLING

## Surgical Instruments

Cardiac Vascular Thoracic



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**FEHLING INSTRUMENTS GmbH**  
**CVT: Cardiac Vascular Thoracic**

Art. no: ZYE-OC  
Photos: Art acta werbeagentur  
Printing: Druckerei Hohl

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# MICRO SURGICAL INSTRUMENTS

MIKRO-CHIRURGISCHE INSTRUMENTE

- 06 Micro Forceps | Mikropinzetten
- 13 Micro Needle Holders | Mikronadelhalter
- 18 Micro Scissors | Mikroscheren
- 27 Micro Container | Container

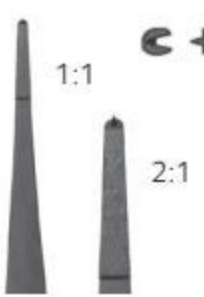
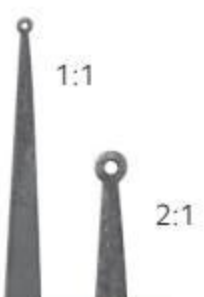




T Titanium Titan

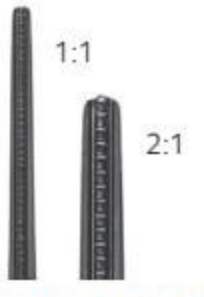
\* Titanium instruments are highlighted with a light blue color

T CERAMO® RONDO MICRO FORCEPS | CERAMO® RONDO MIKROPINZETTEN

|                                                                                                                   | JAW WIDTH<br>MAUL BREITE | TOTAL LENGTH / GESAMTLÄNGE |                |                |                |        |
|-------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------|----------------|----------------|----------------|--------|
|                                                                                                                   |                          | 150 mm                     | 180 mm         | 210 mm         | 230 mm         | 250 mm |
| <br>MICRO ROUGH<br>MIKRORAU      | 0.15 mm                  | COV-6                      |                |                |                |        |
|                                                                                                                   | 0.3 mm                   | COV-2                      | COV-4          |                |                |        |
|                                                                                                                   | 0.5 mm                   | COA-3                      | COA-4          | COA-5          | COA-6          |        |
|                                                                                                                   | 0.7 mm                   |                            | COC-2          | COC-3          |                |        |
|                                                                                                                   | 1.0 mm                   |                            | COY-6<br>COY-2 | COY-7          | COY-8          |        |
| <br>MICRO ROUGH<br>MIKRORAU    | 0.3 mm                   |                            | COV-3          |                |                |        |
|                                                                                                                   | 0.5 mm                   |                            |                |                | COE-4          |        |
| <br>1 x 2 TEETH<br>1 x 2 ZÄHNE | 0.35 mm                  | COS-1                      | COS-2          | COS-3          |                |        |
|                                                                                                                   | 0.7 mm                   |                            |                | COX-3          |                |        |
| <br>MICRO ROUGH<br>MIKRORAU    | 1.0 mm                   |                            | COB-1<br>COF-1 | COB-3<br>COF-3 | COB-5<br>COF-5 | COB-9  |
|                                                                                                                   | 2.0 mm                   |                            | COB-2          | COB-4          |                |        |



1:1

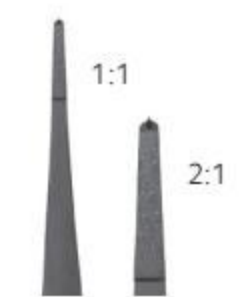
|                                                                                                                        | JAW WIDTH<br>MAUL BREITE | TOTAL LENGTH / GESAMTLÄNGE |                |                |                |        |
|------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------|----------------|----------------|----------------|--------|
|                                                                                                                        |                          | 150 mm                     | 180 mm         | 210 mm         | 230 mm         | 250 mm |
| <br>MICRO ROUGH<br>MIKRORAU         | 1.0 mm                   |                            |                | COX-7          |                |        |
|                                                                                                                        | 1.2 mm                   | COD-0                      | COD-1<br>COD-4 | COD-2<br>COD-5 | COD-3<br>COD-6 | COF-0  |
| <br>NON-TRAUMATIC<br>ATRAUMATISCH  | 1.5 mm                   |                            | COE-5          | COD-9          | COE-7          |        |
|                                                                                                                        | 1.8 mm                   |                            | COE-9          |                |                |        |
| <br>NON-TRAUMATIC<br>ATRAUMATISCH | 1.2 mm                   |                            |                | COD-8          |                |        |
|                                                                                                                        | 1.0 mm                   |                            | COS-0          |                |                |        |
| <br>BOULITO<br>VALVE KLASPE       | 1.5 mm                   |                            | COS-7          | COS-8          |                |        |



T Titanium Titan

\* Titanium instruments are highlighted with a light blue color

T CERAMO® RONDO TORLOCK® MICRO FORCEPS | CERAMO® RONDO TORLOCK® MIKROPINZETTEN

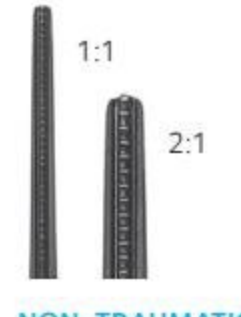
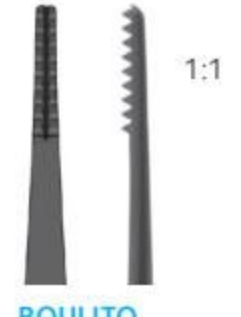
|                                                                                                                   | JAW WIDTH<br>MAUL BREITE | TOTAL LENGTH / GESAMTLÄNGE |        |        |        |        |
|-------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------|--------|--------|--------|--------|
|                                                                                                                   |                          | 150 mm                     | 180 mm | 210 mm | 230 mm | 250 mm |
| <br>MICRO ROUGH<br>MIKRORAU      | 0.15 mm                  | COV-6T                     |        |        |        |        |
|                                                                                                                   | 0.3 mm                   | COV-2T                     | COV-4T |        |        |        |
|                                                                                                                   | 0.5 mm                   | COA-3T                     | COA-4T | COA-5T | COA-6T | COA-9T |
|                                                                                                                   | 0.7 mm                   |                            |        |        | COC-4T |        |
|                                                                                                                   | 1.0 mm                   | COY-5T                     | COY-6T | COY-7T | COY-8T | COY-9T |
|                                                                                                                   | 1.2 mm                   |                            | CZA-4T |        |        |        |
| <br>MICRO ROUGH<br>MIKRORAU    | 1.5 mm                   | CZA-6T                     |        |        |        |        |
|                                                                                                                   | 0.15 mm                  | COV-5T                     |        |        |        |        |
|                                                                                                                   | 0.3 mm                   | COV-1T                     | COV-3T |        |        |        |
| <br>1 x 2 TEETH<br>1 x 2 ZÄHNE | 0.5 mm                   | COE-1T                     | COE-2T | COE-3T | COE-4T |        |
|                                                                                                                   | 0.35 mm                  | COS-1T                     | COS-2T | COS-3T | COS-4T |        |
| <br>1 x 2 TEETH<br>1 x 2 ZÄHNE | 0.7 mm                   | COX-1T                     | COX-2T | COX-3T | COX-4T |        |
|                                                                                                                   | 1.0 mm                   | COB-7T                     | COB-1T | COB-3T | COB-5T | COB-9T |
| <br>MICRO ROUGH<br>MIKRORAU    | 2.0 mm                   | COB-8T                     | COB-2T | COB-4T | COB-6T |        |



TOR - Torsion | LOCK - Stop

The purpose of the TORLOCK® mechanism is to guide the forceps earlier to ensure parallel alignment of the working ends as well as to prevent misalignment of the jaws during rotation when the forceps are closed. TORLOCK® mechanism consists of a tongue and groove at the distal end of the branch.

Der Zweck des TORLOCK® Mechanismus ist es die Pinzette frühzeitig zu führen, um das parallele Schließen der Arbeitsenden sicherzustellen sowie beim Drehen der Pinzette im geschlossenen Zustand das Überwerfen der Maulteile zu verhindern. Der TORLOCK® Mechanismus besteht aus einer Feder und einer Nut am distalen Ende des Griffs.

|                                                                                                                        | JAW WIDTH<br>MAUL BREITE | TOTAL LENGTH / GESAMTLÄNGE |        |        |                  |        |
|------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------|--------|--------|------------------|--------|
|                                                                                                                        |                          | 150 mm                     | 180 mm | 210 mm | 230 mm           | 250 mm |
| <br>MICRO ROUGH<br>MIKRORAU         | 1.0 mm                   |                            | COA-7T | COX-7T |                  |        |
|                                                                                                                        | 1.2 mm                   |                            |        | COH-9T |                  |        |
|                                                                                                                        | 2.0 mm                   |                            | COA-8T | COX-8T |                  |        |
| <br>NON-TRAUMATIC<br>ATRAUMATISCH | 1.2 mm                   | COD-0T                     | COD-1T | COD-2T | COD-3T<br>COD-6T | COF-0T |
|                                                                                                                        | 1.5 mm                   |                            | COE-5T | COD-9T | COE-7T           |        |
|                                                                                                                        | 1.8 mm                   |                            | COE-9T | COE-6T | COE-8T           |        |
|                                                                                                                        | 2.5 mm                   |                            |        | COV-0T |                  |        |
| <br>NON-TRAUMATIC<br>ATRAUMATISCH | 1.2 mm                   |                            | COC-6T | COD-8T |                  |        |
|                                                                                                                        | 1.0 mm                   |                            | COS-0T |        |                  |        |
| <br>BOULITO<br>VALVE Klappe       | 1.5 mm                   |                            | COS-7T | COS-8T | COR-0T           |        |

Developed in cooperation with / Entwickelt in Zusammenarbeit mit:

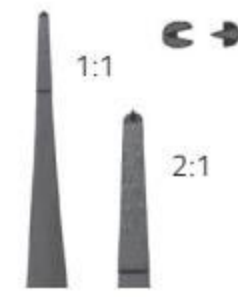
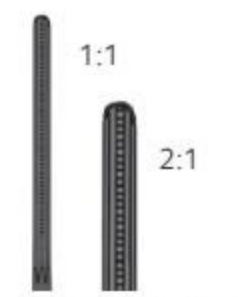
Prof. Dr. med. Alexander Assmann  
Universitätsklinikum Düsseldorf | Klinik für Herzchirurgie  
Moorenstr. 5 | 40225 Düsseldorf | Germany



T Titanium Titan

\* Titanium instruments are highlighted with a light blue color

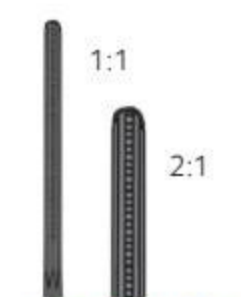
T CERAMO® PLANO MICRO FORCEPS | CERAMO® PLANO MIKROPINZETTEN

|                                                                                                                      | JAW WIDTH<br>MAUL BREITE | TOTAL LENGTH / GESAMTLÄNGE |        |        |        |
|----------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------|--------|--------|--------|
|                                                                                                                      |                          | 150 mm                     | 180 mm | 210 mm | 230 mm |
| <br>1 x 2 TEETH<br>1 x 2 ZÄHNE     | 0.7 mm                   | COJ-4                      |        | COJ-6  | COJ-7  |
| <br>NON-TRAUMATIC<br>ATRAUMATISCH | 1.2 mm                   |                            | COL-2  | COL-3  | COL-8  |



1:1

T CERAMO® PLANO-S MICRO FORCEPS | CERAMO® PLANO-S MIKROPINZETTEN

|                                                                                                                        | JAW WIDTH<br>MAUL BREITE | TOTAL LENGTH / GESAMTLÄNGE |        |        |
|------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------|--------|--------|
|                                                                                                                        |                          | 200 mm                     | 225 mm | 240 mm |
| <br>MICRO ROUGH<br>MIKRORAU         | 0.4 mm                   | COT-1                      |        | COT-2  |
|                                                                                                                        | 0.9 mm                   | COT-3                      | COT-8  | COT-4  |
| <br>1 x 2 TEETH<br>1 x 2 ZÄHNE     | 1.0 mm                   | COT-5                      | COT-9  |        |
| <br>MICRO ROUGH<br>MIKRORAU       | 1.0 mm                   |                            | CPA-1  |        |
|                                                                                                                        |                          |                            | COU-0  | CZE-1  |
| <br>NON-TRAUMATIC<br>ATRAUMATISCH | 1.2 mm                   |                            | COM-5  |        |



1:1



CERAMO® PLANO-S TUMOR AND TISSUE GRASPING FORCEPS | CERAMO® PLANO-S TUMOR- UND GEWEBEFASSPINZETTEN

|                                                                                                                                | JAW Ø<br>MAUL Ø | TOTAL LENGTH / GESAMTLÄNGE |        |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------|
|                                                                                                                                |                 | 220 mm                     | 240 mm |
| <br>2:1<br>SPOONSHAPED<br>LÖFFELFÖRMIG      | 2.0 mm          | COG-0                      |        |
| <br>1:1<br>SERRATED, FLAT<br>GEZAHNT, FLACH | 5.0 mm          |                            | CON-8  |



CERAMO® MICRO NEEDLE HOLDERS | CERAMO® MIKRONADELHALTER

Grasping surface: Micro rough. Strong model, with lock.  
Greifflächen: Mikrorau. Starkes modell, mit Sperre.

|                                                                                                                   | HANDLE<br>GRIFF | TOTAL LENGTH / GESAMTLÄNGE |        |        |        |
|-------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------|--------|--------|--------|
|                                                                                                                   |                 | 190 mm                     | 230 mm | 250 mm | 300 mm |
| <br>1:1<br>2.5 mm<br>Max. 3x0  | RONDO           | KOV-9                      | KOU-4  | KOU-5  | KOU-3  |
| <br>1:1<br>2.5 mm<br>Max. 3x0  | RONDO           |                            |        |        | KOU-6  |
| <br>1:1<br>2.0 mm<br>Max. 3x0 | PLANO           |                            |        | KOW-0  |        |

Max. Suture size  
Max. Fadenstärke





**T CERAMO® RONDO NEEDLE HOLDERS |**  
**CERAMO® RONDO MIKRONADELHALTER**

Grasping surface: Micro rough  
Greifflächen: Mikrorau



**T Titanium Titan**

\* Titanium instruments are highlighted with a light blue color

|                                                                                                                    | JAW WIDTH<br>MAUL BREITE    | TOTAL LENGTH / GESAMTLÄNGE |                |                |                |        |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------|----------------|----------------|----------------|--------|
|                                                                                                                    |                             | 150 mm                     | 180 mm         | 210 mm         | 230 mm         | 250 mm |
| <br>1:1<br>0.5 mm<br>Max. 9x0   | With lock<br>Mit sperre     |                            | KOD-9          | KOE-9          |                |        |
|                                                                                                                    | Without lock<br>Ohne sperre | KOD-6                      | KOE-0          |                |                |        |
| <br>1:1<br>0.5 mm<br>Max. 9x0   | With lock<br>Mit sperre     | KOD-7                      | KOE-1          |                |                |        |
|                                                                                                                    | Without lock<br>Ohne sperre | KOD-8                      | KOE-2          |                |                |        |
| <br>1:1<br>1.0 mm<br>Max. 7x0   | With lock<br>Mit sperre     | KOA-1                      | KOA-3<br>KOB-3 | KOA-5<br>KOB-5 | KOA-7<br>KOB-7 | KOA-0  |
|                                                                                                                    | Without lock<br>Ohne sperre |                            |                | KOA-6<br>KOB-6 | KOA-8          | KOA-9  |
| <br>1:1<br>1.0 mm<br>Max. 7x0 | With lock<br>Mit sperre     |                            | KOL-3          | KOL-5          | KOL-7          |        |
|                                                                                                                    | Without lock<br>Ohne sperre |                            | KOL-4          |                | KOL-8          |        |
| <br>1:1<br>1.5 mm<br>Max. 6x0 | With lock<br>Mit sperre     | KOT-8                      | KOT-5          | KOT-6          | KOT-7          | KOS-9  |
| <br>1:1<br>1.5 mm<br>Max. 6x0 | With lock<br>Mit sperre     |                            |                |                | KOU-0          |        |
|                                                                                                                    | Without lock<br>Ohne sperre | KOY-8                      | KOY-0          | KOY-9          |                |        |
| <br>1:1<br>2.0 mm<br>Max. 5x0 | With lock<br>Mit sperre     | KOT-2                      | KOD-1          | KOD-3          | KOT-3          | KOT-0  |
|                                                                                                                    | Without lock<br>Ohne sperre |                            | KOD-2          | KOD-4          | KOT-4          |        |

Max. Suture size  
Max. Fadenstärke



**T CERAMO® PLANO MICRO NEEDLE HOLDERS | CERAMO® PLANO MIKRONADELHALTER**

Grasping surface: Micro rough  
Greifflächen: Mikrorau

|                                                                                                                |                         | TOTAL LENGTH / GESAMTLÄNGE |        |                |        |
|----------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------|--------|----------------|--------|
|                                                                                                                |                         | 150 mm                     | 180 mm | 210 mm         | 230 mm |
| <br>1:1<br>1.0 mm<br>Max. 7x0 | WITH LOCK<br>MIT SPERRE | KOC-3                      | KOC-4  | KOC-7<br>KOM-3 | KOC-5  |
|                                                                                                                | WITH LOCK<br>MIT SPERRE |                            | KOZ-2  | KOZ-3          | KOZ-4  |

Max. Suture size  
Max. Fadenstärke

**T Titanium Titan**

\* Titanium instruments are highlighted with a light blue color



**CERAMO® PLANO-S MICRO NEEDLE HOLDERS | CERAMO® PLANO-S MIKRONADELHALTER**

Grasping surface: Micro rough  
Greifflächen: Mikrorau

|                                                                                                                    | TOTAL LENGTH / GESAMTLÄNGE |        |
|--------------------------------------------------------------------------------------------------------------------|----------------------------|--------|
|                                                                                                                    | 225 mm                     | 240 mm |
| <br>1:1<br>0.4 mm<br>Max. 9x0   | KOV-3                      | KOV-5  |
| <br>1:1<br>1.0 mm<br>Max. 7x0  | KOM-5                      |        |
| <br>1:1<br>1.0 mm<br>Max. 7x0 | KOM-7                      | KON-5  |
| <br>1:1<br>2.0 mm<br>Max. 5x0 | KOM-0                      |        |
| <br>1:1<br>2.0 mm<br>Max. 5x0 | KRA-0                      |        |

All PLANO-S patterns are also available with lock  
Alle PLANO-S Modelle auch mit Sperre erhältlich

Max. Suture size  
Max. Fadenstärke





CERAMO® RONDO MICRO SCISSORS |  
CERAMO® RONDO MIKROSCHEREN



|                                                                                              |                  | TOTAL LENGTH / GESAMTLÄNGE |        |        |        |        |
|----------------------------------------------------------------------------------------------|------------------|----------------------------|--------|--------|--------|--------|
|                                                                                              |                  | 120 mm                     | 150 mm | 180 mm | 210 mm | 230 mm |
| <br>10 mm  | Pointed Spitz    |                            | BSN-5  | BSN-3  |        |        |
| <br>10 mm | Pointed Spitz    | BSL-3                      | BSN-6  | BSN-4  |        |        |
| <br>14 mm | Pointed Spitz    |                            |        |        | BRK-6  |        |
| <br>14 mm | Serrated Gezahnt |                            | BRL-2  |        |        |        |
| <br>14 mm | Pointed Spitz    |                            | BRK-1  | BRK-3  | BRK-5  | BRK-7  |
| <br>14 mm | Blunt Stumpf     |                            |        | BSI-2  | BSI-3  |        |

CERAMO® PLANO MICRO SCISSORS |  
CERAMO® PLANO MIKROSCHEREN



|                                                                                                |                  | TOTAL LENGTH / GESAMTLÄNGE |        |        |        |
|------------------------------------------------------------------------------------------------|------------------|----------------------------|--------|--------|--------|
|                                                                                                |                  | 150 mm                     | 180 mm | 210 mm | 230 mm |
| <br>10 mm  | Pointed Spitz    |                            | BRV-6  |        |        |
| <br>10 mm | Blunt Stumpf     |                            | BRV-8  |        |        |
| <br>14 mm | Pointed Spitz    | BRC-2                      | BRC-4  | BRC-6  | BRC-8  |
| <br>14 mm | Serrated Gezahnt |                            | BRE-2  |        |        |
| <br>14 mm | Pointed Spitz    |                            | BRC-3  | BRC-5  |        |



CERAMO® PLANO S MICRO SCISSORS |  
CERAMO® PLANO S MIKROSCHEREN

|                                                                                     |                                         | TOTAL LENGTH / GESAMTLÄNGE |        |        |        |
|-------------------------------------------------------------------------------------|-----------------------------------------|----------------------------|--------|--------|--------|
|                                                                                     |                                         | 200 mm                     | 225 mm | 240 mm | 250 mm |
|    | Standard                                | BRD-8                      | BRD-6  |        | BSN-2  |
|                                                                                     | Strong*<br>Stark*                       |                            | BRF-4  |        |        |
|   | Standard                                | BRD-7                      | BRD-5  |        |        |
|  | Full blade blunt<br>Volles blatt stumpf |                            | BSH-4  | BSH-6  |        |
|  | Full blade blunt<br>Volles blatt stumpf |                            | BSH-3  |        |        |

\*Serrated blades  
\*Gezahnte Blätter



CERAMO® PLANO S MICRO SCISSORS |  
CERAMO® PLANO S MIKROSCHEREN

|                                                                                     |          | TOTAL LENGTH / GESAMTLÄNGE |
|-------------------------------------------------------------------------------------|----------|----------------------------|
|                                                                                     |          | 225 mm                     |
|  | Standard | BRW-1                      |
|  | Standard | BRW-2                      |





CERAMO® DELICATE MICRO SCISSORS |  
CERAMO® SEHR FEIN MIKROSCHEREN

|                                                                                     |     | TOTAL LENGTH / GESAMTLÄNGE |        |        |        |        |       |
|-------------------------------------------------------------------------------------|-----|----------------------------|--------|--------|--------|--------|-------|
|                                                                                     |     | 165 mm                     | 185 mm | 200 mm | 225 mm | 240 mm |       |
|    | 1:1 | Pointed Spitz              |        | BRZ-3  | BRZ-5  | BRZ-7  |       |
|    | 1:1 | Pointed Spitz              |        | BRZ-2  | BRZ-4  | BRZ-6  | BRZ-8 |
|   | 1:1 | Half-pointed Halbspitz     | BSA-8  |        |        |        |       |
|  | 1:1 | Half-pointed Halbspitz     | BSA-9  | BRZ-1  | BSZ-4  |        |       |



1:1

CERAMO® VANNAS PLANO-S MICRO  
SCISSORS | CERAMO® VANNAS PLANO-S  
MIKROSCHEREN

|                                                                                      |     | TOTAL LENGTH / GESAMTLÄNGE |        |
|--------------------------------------------------------------------------------------|-----|----------------------------|--------|
|                                                                                      |     | 200 mm                     | 225 mm |
|   | 1:1 | BSG-4                      |        |
|  | 1:1 | BSG-3                      | BSG-1  |



1:1



CERAMO® RONDO VASCULAR SCISSORS |  
CERAMO® RONDO GEFÄSS-SCHEREN

|                                                                                          |                          | TOTAL LENGTH /<br>GESAMTLÄNGE |  1:1<br>10 MM |
|------------------------------------------------------------------------------------------|--------------------------|-------------------------------|------------------------------------------------------------------------------------------------|
|  45°    | Pointed<br>Spitz         | 180 mm                        | BSM-2                                                                                          |
|                                                                                          |                          | 210 mm                        | BSI-6                                                                                          |
|                                                                                          |                          | 250 mm                        | BSL-6                                                                                          |
|  60°  | Ballpointed<br>Mit Knopf | 180 mm                        | BSD-2                                                                                          |
|                                                                                          |                          |                               |                                                                                                |
|  125° | Pointed<br>Spitz         | 180 mm                        | BSM-3                                                                                          |
|                                                                                          |                          | 210 mm                        | BSI-7                                                                                          |
|                                                                                          |                          | 250 mm                        | BSL-9                                                                                          |



CERAMO® PLANO VASCULAR SCISSORS |  
CERAMO® PLANO GEFÄSS-SCHEREN

|                                                                                            |                  | TOTAL LENGTH /<br>GESAMTLÄNGE |  1:1<br>7 MM |  1:1<br>10 MM |
|--------------------------------------------------------------------------------------------|------------------|-------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|  25°    | Pointed<br>Spitz | 180 mm                        | BSM-6                                                                                           |                                                                                                  |
|                                                                                            |                  | 250 mm                        |                                                                                                 | BSK-6                                                                                            |
|  45°  | Pointed<br>Spitz | 180 mm                        | BSM-7                                                                                           | BSK-2                                                                                            |
|                                                                                            |                  | 250 mm                        |                                                                                                 | BSK-7                                                                                            |
|  60°  | Pointed<br>Spitz | 180 mm                        |                                                                                                 | BSK-3                                                                                            |
|                                                                                            |                  | 250 mm                        |                                                                                                 | BSN-0                                                                                            |
|  125° | Pointed<br>Spitz | 170 mm                        |                                                                                                 | BSK-5                                                                                            |





CERAMO® PLANO VASCULAR SCISSORS |  
CERAMO® PLANO GEFÄSS-SCHEREN

|                                                                                             |                                                                                           |                                                                                            |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|                                                                                             | <br>7 MM | <br>10 MM |
| <br>25°   |                                                                                           | BRA-OL                                                                                     |
| <br>45°  |                                                                                           | BRA-6L                                                                                     |
| <br>125° | BRA-8                                                                                     |                                                                                            |



PLASTIC CONTAINER WITH SILICONE MAT |  
KUNSTSTOFFCONTAINER MIT SILIKONMATTEN

For straight instruments  
Für gerade Instrumente

| TOTAL LENGTH / GESAMTLÄNGE | ART. NUMBER |
|----------------------------|-------------|
| 250 x 150 x 20 mm          | UCA-4       |
| 381 x 254 x 19 mm          | UCA-1       |



PLASTIC CONTAINER WITH SILICONE MAT |  
KUNSTSTOFFCONTAINER MIT SILIKONMATTEN

For bayonet-shaped instruments  
Für bajonettförmige Instrumente

| TOTAL LENGTH / GESAMTLÄNGE | ART. NUMBER |
|----------------------------|-------------|
| 250 x 150 x 43 mm          | UCA-9       |
| 381 x 254 x 43 mm          | UCA-8       |

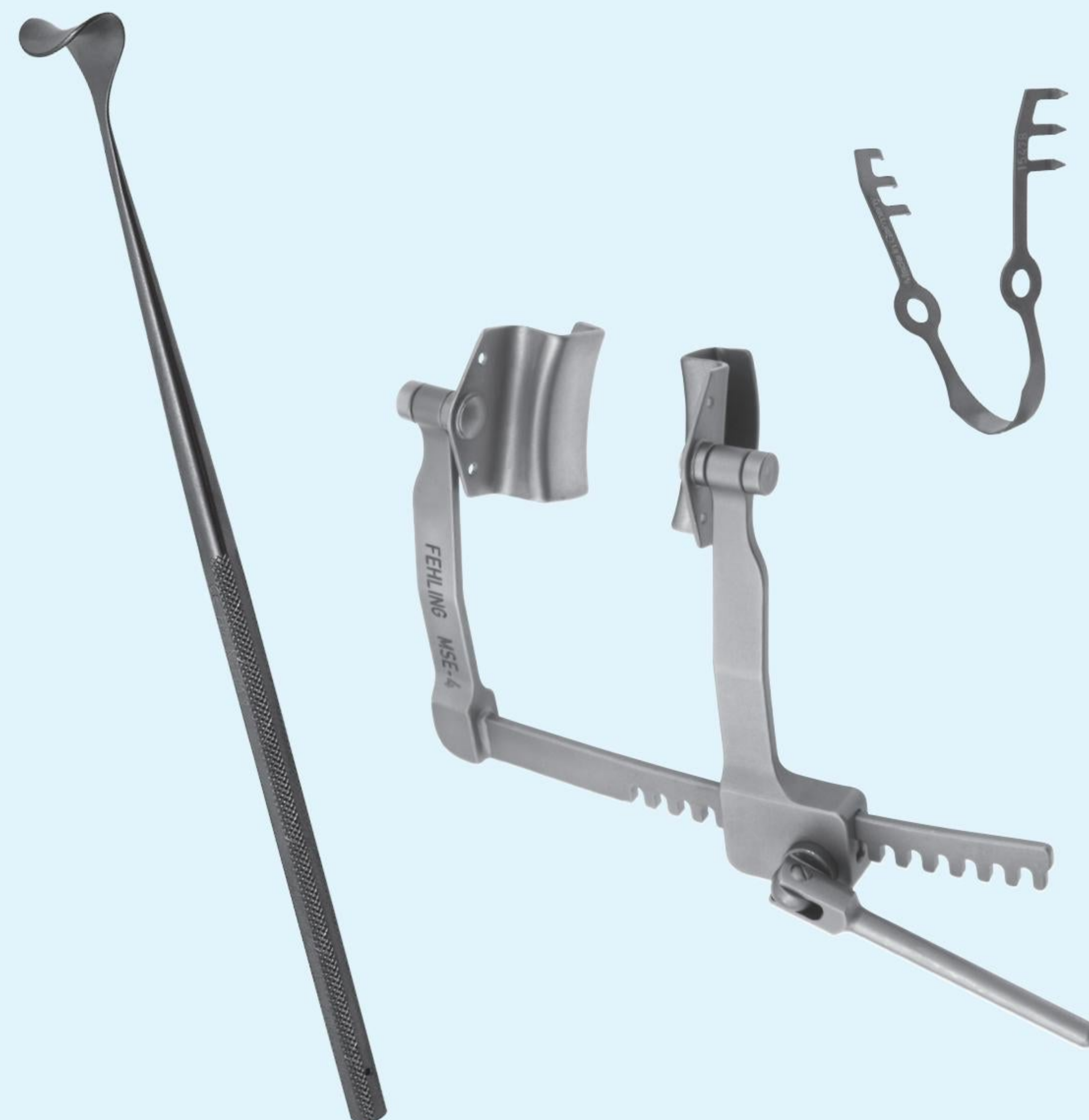
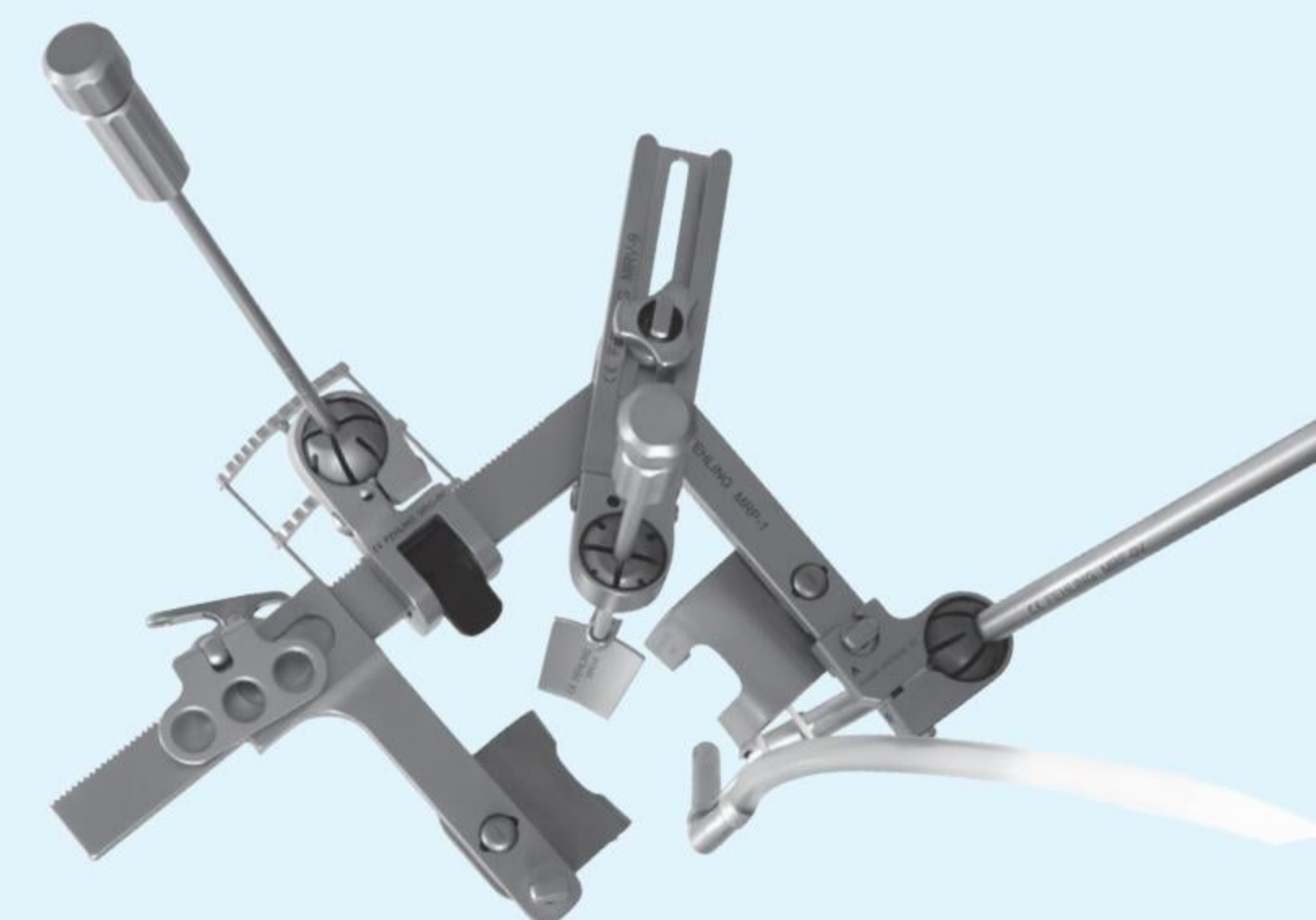
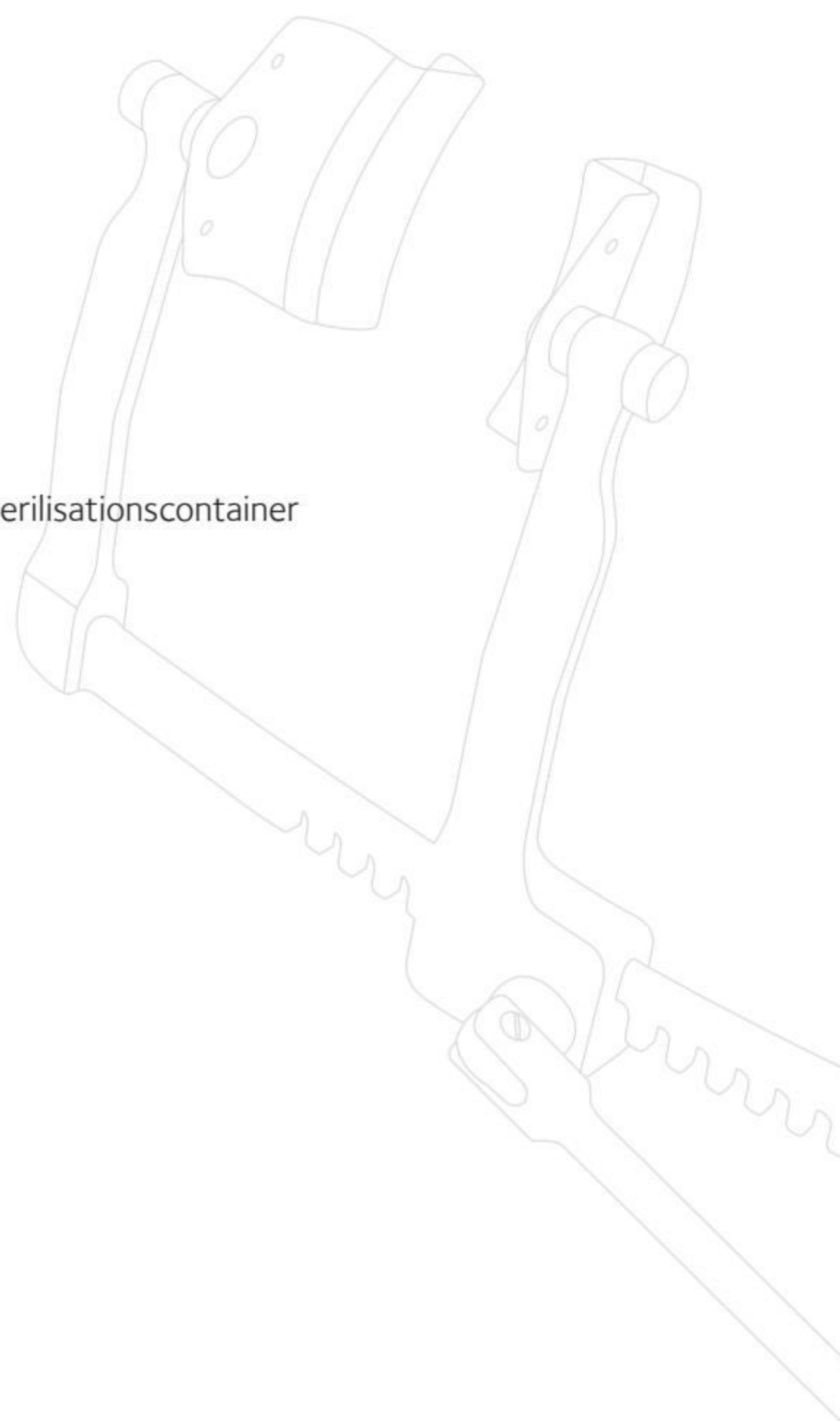




# SPREADING AND RETRACTING INSTRUMENTS

## INSTRUMENTE ZUM SPREIZEN UND HALTEN

- 30 Atrium Retractors | Vorhofspreizer
- 32 Fat and Skin Retractors | Fett- und Hautspreizer
- 33 Sternum / Rib Retractors | Sternum- / Rippenspreizer
- 43 Partial Sternotomy Retractors | Partielle Sternotomiespreizer
- 45 Universal Sternum Retractors | Universal Sternotomiespreizer
- 52 Accessories For Retractors | Zubehör für Spreizer
- 53 Sternal / IMA Retractors | Sternum- / IMA-Spreizer
- 54 Atrial Retractors | Vorhofspreizer
- 60 MICS Retractors | MICS Spreizer
- 72 Accessories | Zubehör
- 74 Thoracic Retractors | Thoraxspreizer
- 77 Vascular Retractors | Gefäß-Spreizer
- 78 Retractors | Wundhaken
- 82 Retractors | Spreizer
- 84 Retracting Systems | Spreizsysteme
- 92 Sternal Retractors | Sternumspreizer
- 93 Storage and Sterilisation Tray | Aufbewahrungs- und Sterilisationscontainer





COOLEY ATRIUM RETRACTOR |  
COOLEY VORHOFSPREIZER

Left  
Links

| a x b      | LENGTH / LÄNGE<br>240 MM |
|------------|--------------------------|
| 25 x 35 mm | MFW-6                    |
| 25 x 45 mm | MFW-5                    |



COOLEY ATRIUM RETRACTOR |  
COOLEY VORHOFSPREIZER

Right  
Rechts

| a x b      | LENGTH / LÄNGE<br>240 MM |
|------------|--------------------------|
| 25 x 20 mm | MFV-6                    |
| 40 x 30 mm | MFV-7                    |
| 40 x 35 mm | MFW-3                    |





CERAMO® SUPERFLEX  
FAT AND SKIN RETRACTORS |  
CERAMO® SUPERFLEX  
FETT- UND HAUTSPREIZER

| PRESSURE<br>SPREIZDRUCK | ART. NUMBER |
|-------------------------|-------------|
| 0,6 N                   | MNE-3       |



**SUPERFLEX** instruments are made of shapememory metal. These instruments are super-elastic in normal O.R. temperatures. Their shape conforms to soft external pressure, yet the instruments regain their normal shape once the pressure is removed. No long-term alteration of shape is possible.

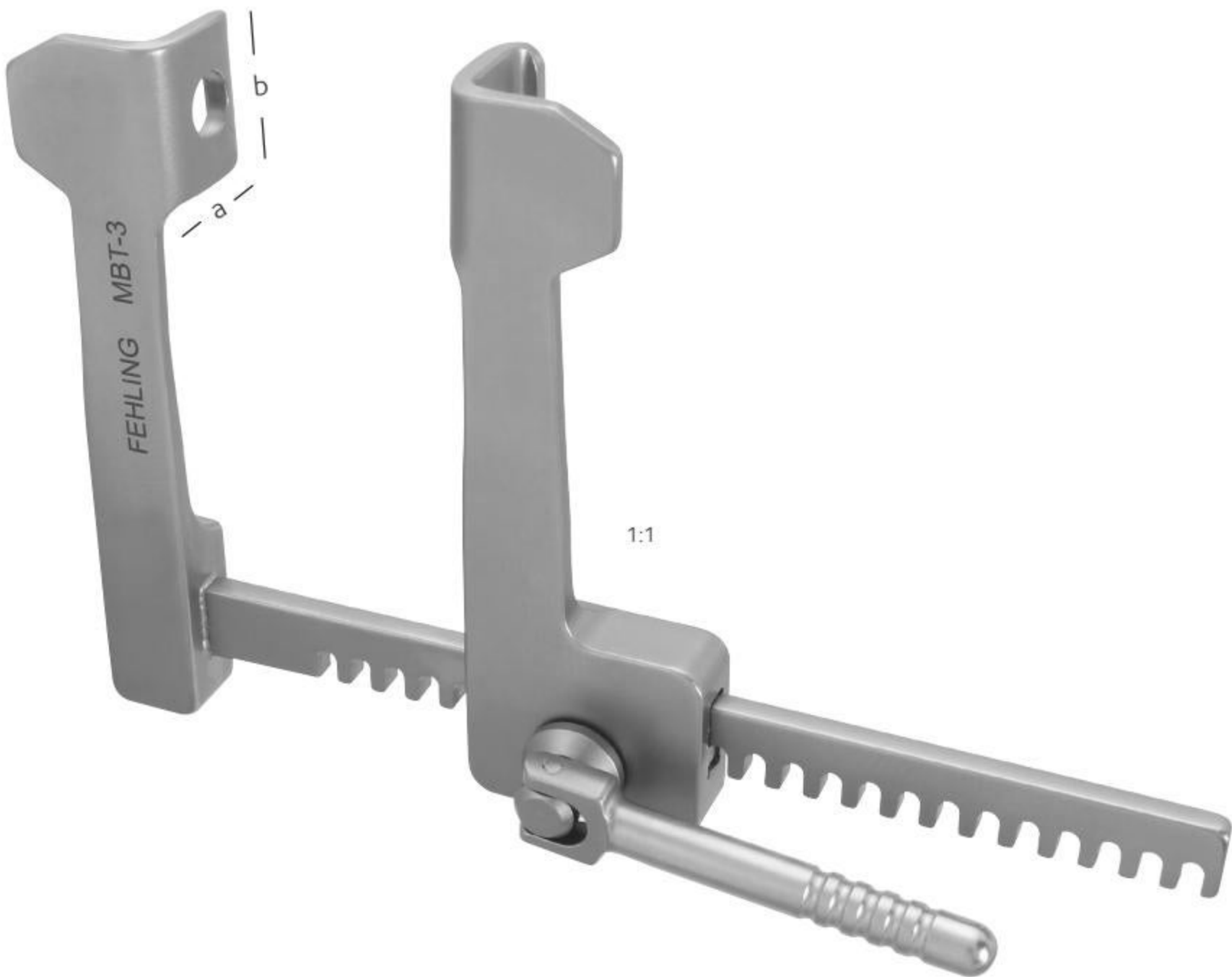
**SUPERFLEX**-Instrumente sind aus Metall mit Formgedächtnis. Sie sind bei normaler OP-Temperatur superelastisch. Ihre Form folgt jedem von außen kommenden Druck und sie gewinnen ihre ursprüngliche Form wieder, sobald der Druck entfällt. Ergebnis: Es wird keine bleibende Verformung verursacht.

FINOCHIETTO STERNUM / RIB RETRACTORS |  
FINOCHIETTO STERNUM- / RIPPENSPREIZER

For pediatric surgery  
Für Kinderchirurgie

| SPREADING WIDTH<br>SPREIZWEITE | BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|--------------------------------|------------------------------------|-------------|
| 75 mm                          | 16 x 15 mm                         | MBT-3       |
| 75 mm                          | 21 x 21 mm                         | MBT-4       |
| 90 mm                          | 31.5 x 35 mm                       | MBT-5       |

All patterns also available in CERAMO®.  
Alle Modelle auch in CERAMO® erhältlich.





**T** Titanium Titan

\* Titanium instruments are highlighted with a light blue color

**T** TITANIUM STERNUM / RIB RETRACTORS |  
TITAN STERNUM- / RIPPENSPREIZER

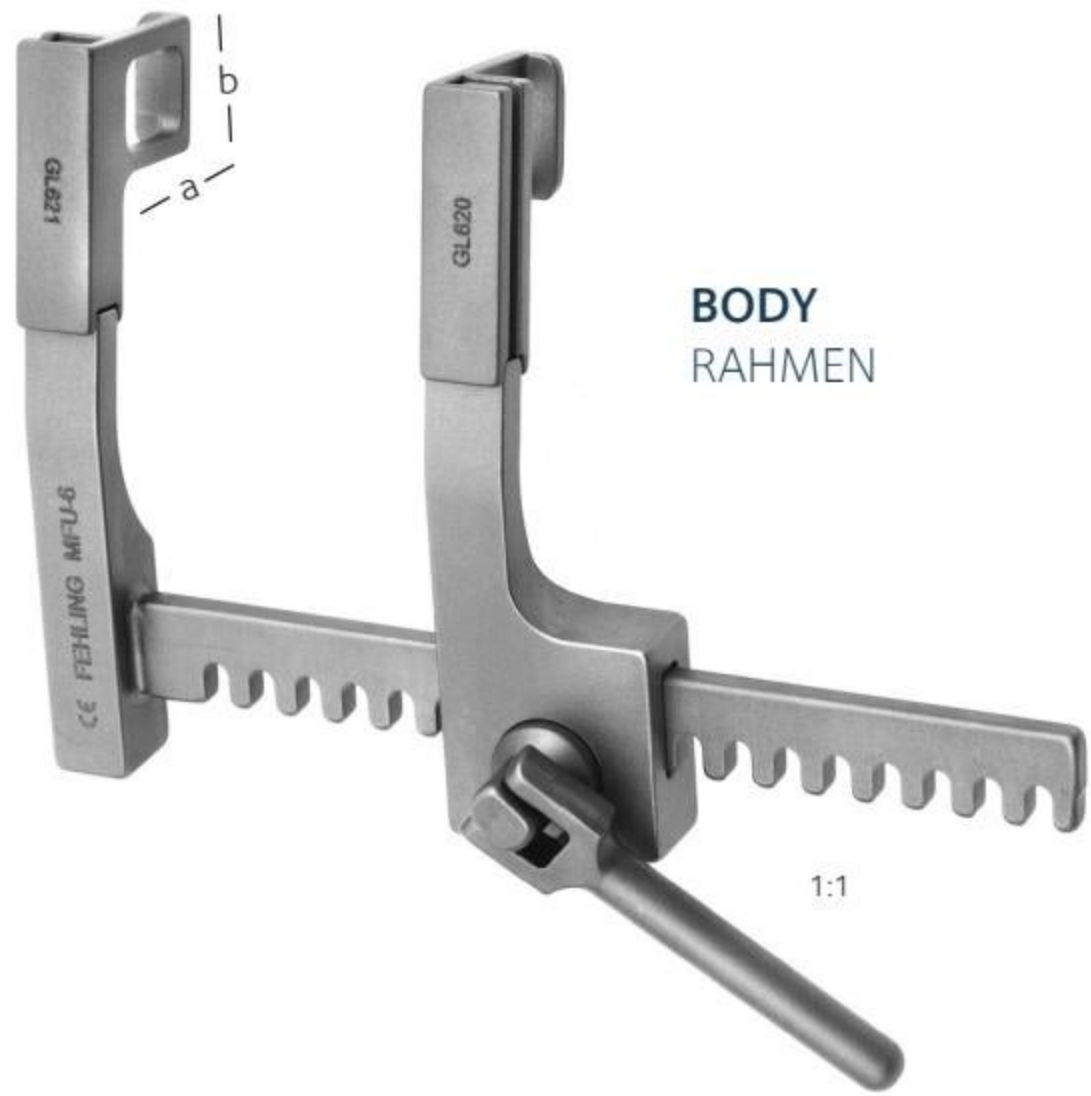
| SPREADING WIDTH<br>SPREIZWEITE | BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|--------------------------------|------------------------------------|-------------|
| 30 mm                          | 10 x 7 mm                          | MBW-0       |



**T** TITANIUM STERNUM / RIB RETRACTORS |  
TITAN STERNUM- / RIPPENSPREIZER

Complete set / Komplettes Set  
MFU-6

| SPREADING WIDTH<br>SPREIZWEITE | BLADE SIZE (PAIR)<br>BLATTGRÖSSE (PAAR) | ART. NUMBER |
|--------------------------------|-----------------------------------------|-------------|
| 52 mm                          |                                         | MFU-6R      |
|                                | 10 x 20 mm                              | MFU-8       |
|                                | 10 x 10 mm                              | MFU-9       |



**BLADES**  
BLÄTTER



Art. No: MFU-9

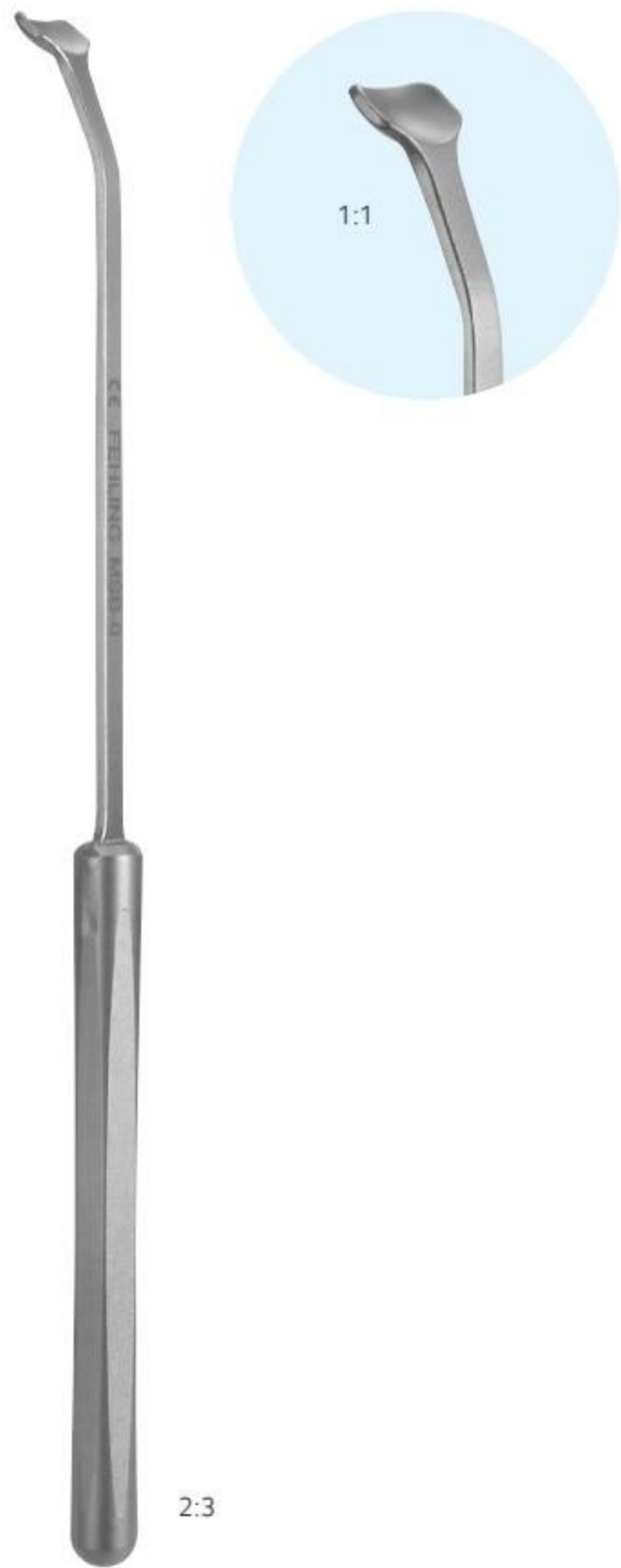


Art. No: MFU-8



RETRACTOR FOR AV-EXPOSURE |  
RETRAKTOR FÜR AK-EXPOSITION

| LENGTH<br>LÄNGE | ART. NUMBER |
|-----------------|-------------|
| 180 mm          | MSB-0       |



MORSE STERNUM / RIB RETRACTORS |  
MORSE STERNUM- / RIPPENSPREIZER

For pediatric surgery  
Für Kinderchirurgie

| SPREADING WIDTH<br>SPREIZWEITE | BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|--------------------------------|------------------------------------|-------------|
| 40 mm                          | 14 x 12 mm                         | MSB-1       |
| 65 mm                          | 14 x 12 mm                         | MSB-2       |
| 90 mm                          | 20 x 15 mm                         | MSB-6       |
| 110 mm                         | 20 x 15 mm                         | MSB-7       |
| 160 mm                         | 23 x 20 mm                         | MSB-5       |



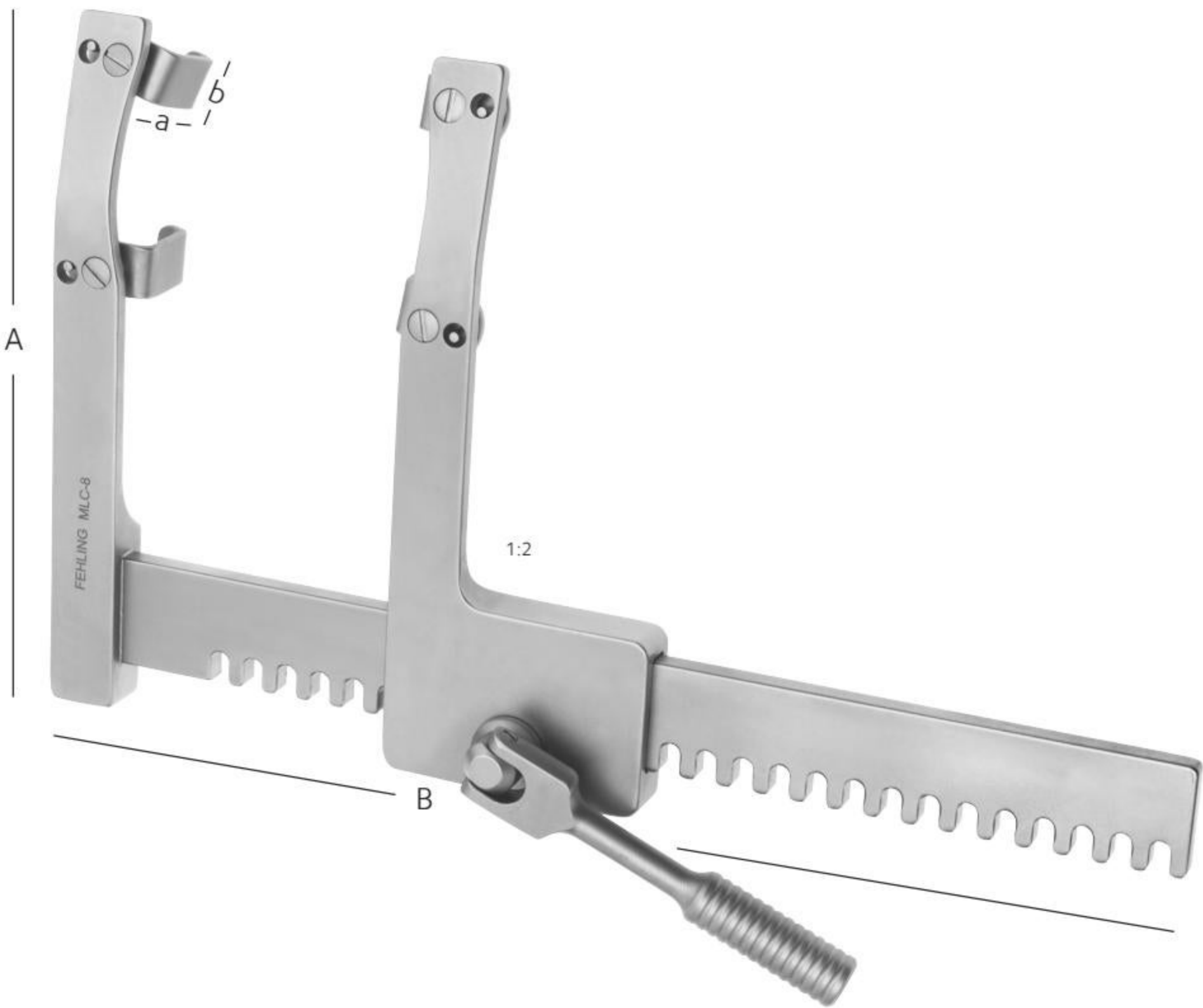


T Titanium Titan

\* Titanium instruments are highlighted with a light blue color

MORSE STERNUM / RIB RETRACTOR |  
MORSE STERNUM- / RIPPENSPREIZER

| BODY SIZE<br>RAHMENGROSSE<br>A / B | BLADE SIZE<br>BLATTGRÖSSE<br>a x b | SPREADING WIDTH<br>SPREIZWEITE | ART. NUMBER |
|------------------------------------|------------------------------------|--------------------------------|-------------|
| 180 / 275 mm                       | 40 x 35 mm                         | 210 mm                         | MMZ-4       |

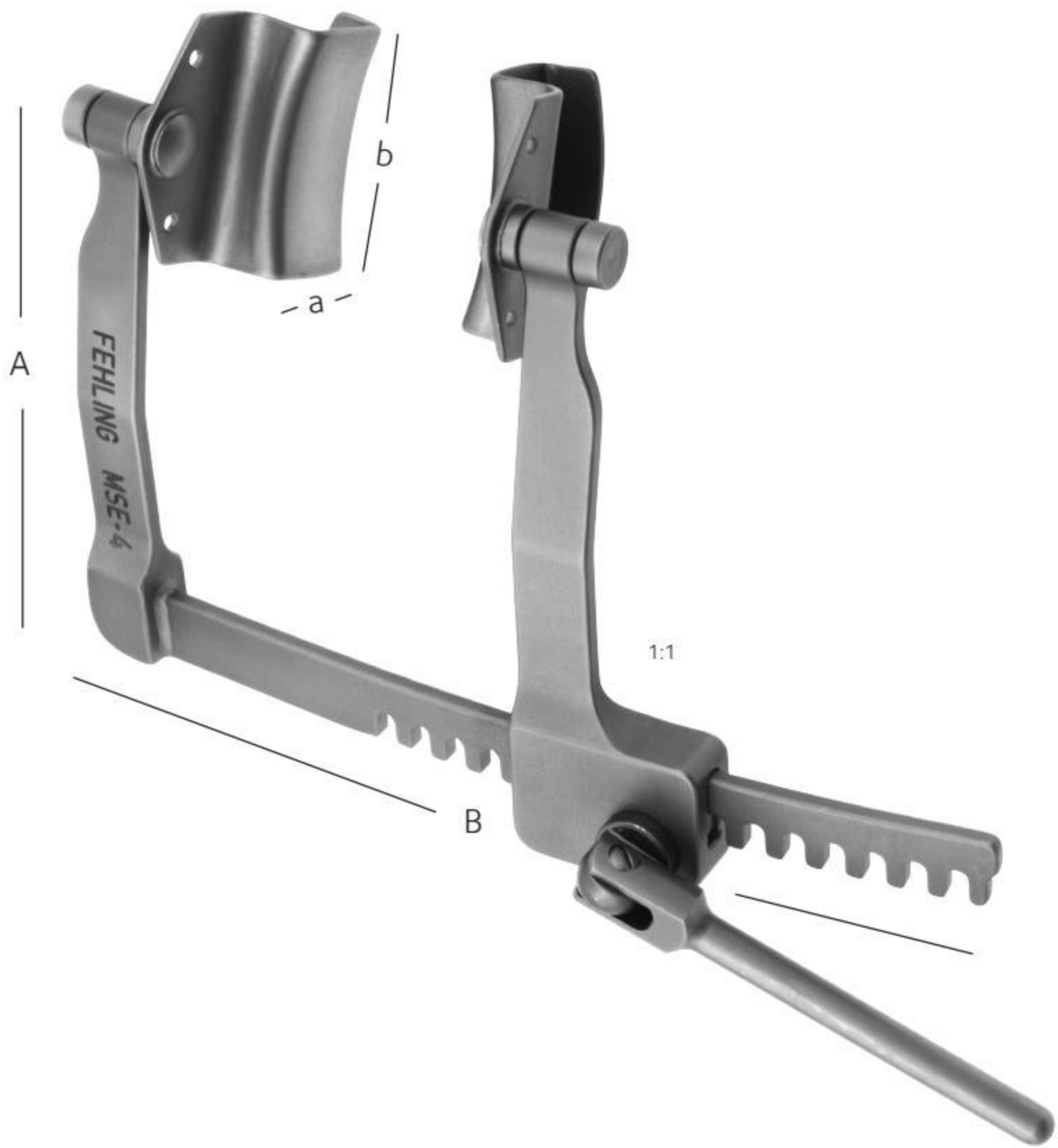


T BOULITO STERNUM / RIB RETRACTORS |  
BOULITO STERNUM- / RIPPENSPREIZER

For pediatric surgery  
Für Kinderchirurgie

| BODY SIZE<br>RAHMENGROSSE<br>A / B | BLADE SIZE<br>BLATTGRÖSSE<br>a x b | SPREADING WIDTH<br>SPREIZWEITE | PATIENT WEIGHT<br>KÖRPERGEWICHT | ART. NUMBER |
|------------------------------------|------------------------------------|--------------------------------|---------------------------------|-------------|
| 60 / 100 mm                        | 12 x 25 mm                         | 50 mm                          | ≤ 5 kg                          | MSE-4       |
| 75 / 120 mm                        | 18 x 35 mm                         | 70 mm                          | 5 - 15 kg                       | MSE-5       |
| 100 / 140 mm                       | 21 x 55 mm                         | 90 mm                          | 15 - 30 kg                      | MSE-6       |
| 150 / 280 mm                       | 30 x 100 mm                        | 150 mm                         | 30 - 60 kg                      | MSE-9*      |

\* Stainless steel  
\* Rostfreier Stahl

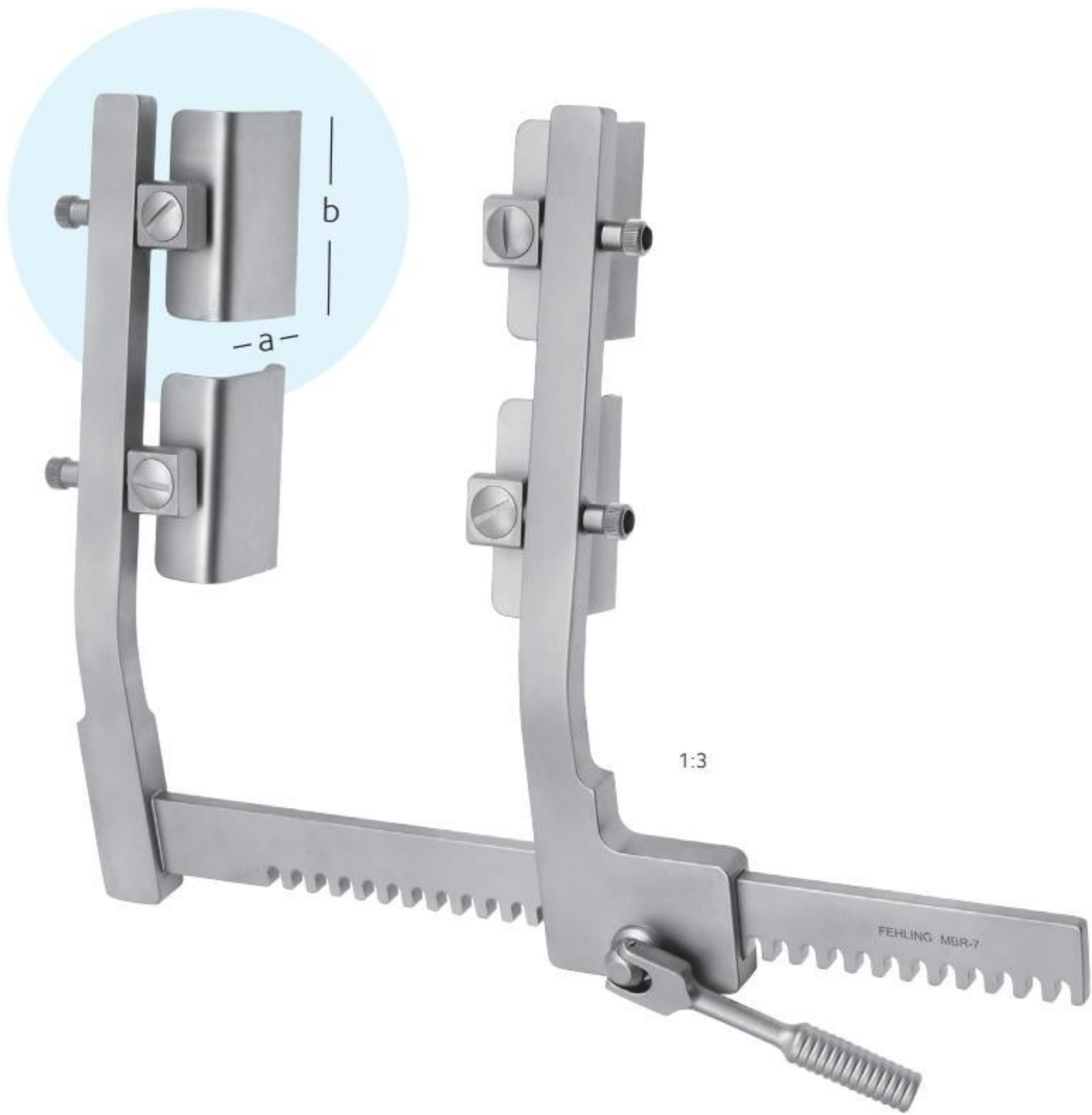




**BIRNBAUM BLADES |**  
**BIRNBAUM BLÄTTER**

For Birnbaum sternum retractor  
Für Birnbaum Sternumsperrer

| BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 40 x 60 mm                         | MLE-7       |



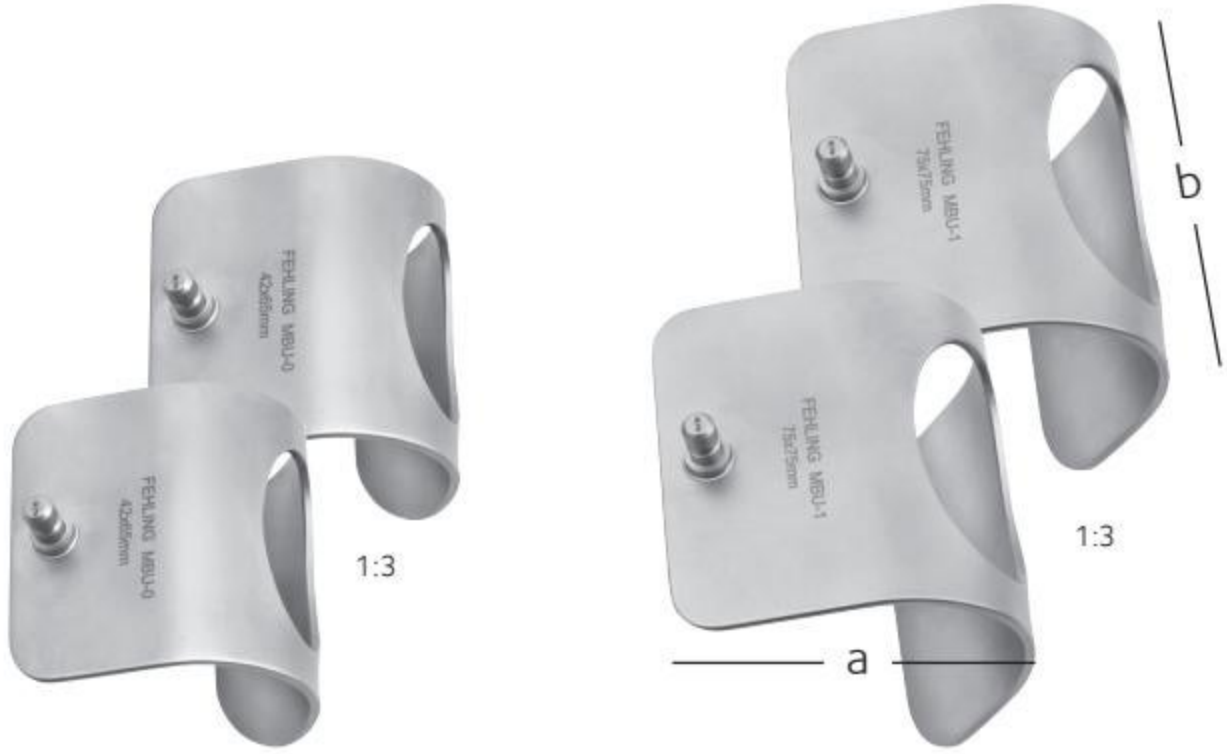
**MERCEDES BODY |**  
**MERCEDES RAHMEN**

MBU-5



**MERCEDES RETRACTING BLADES |**  
**MERCEDES HALTEBLATT**

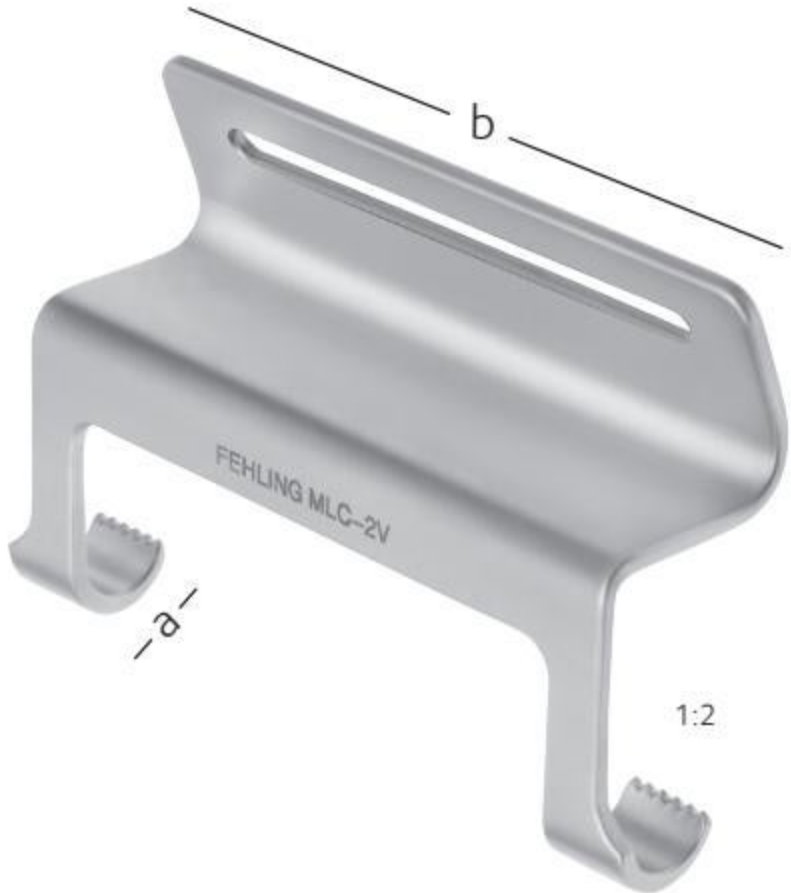
| BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 48 x 65 mm                         | MBU-0       |
| 75 x 75 mm                         | MBU-1       |





BAYKUT IMA RETRACTING BLADES |  
BAYKUT IMA HALTEBLATT

| BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 15 x 90 mm                         | MLC-2V      |
| 15 x 120 mm                        | MLM-3V      |



Exemplary configuration  
Konfigurationsbeispiel

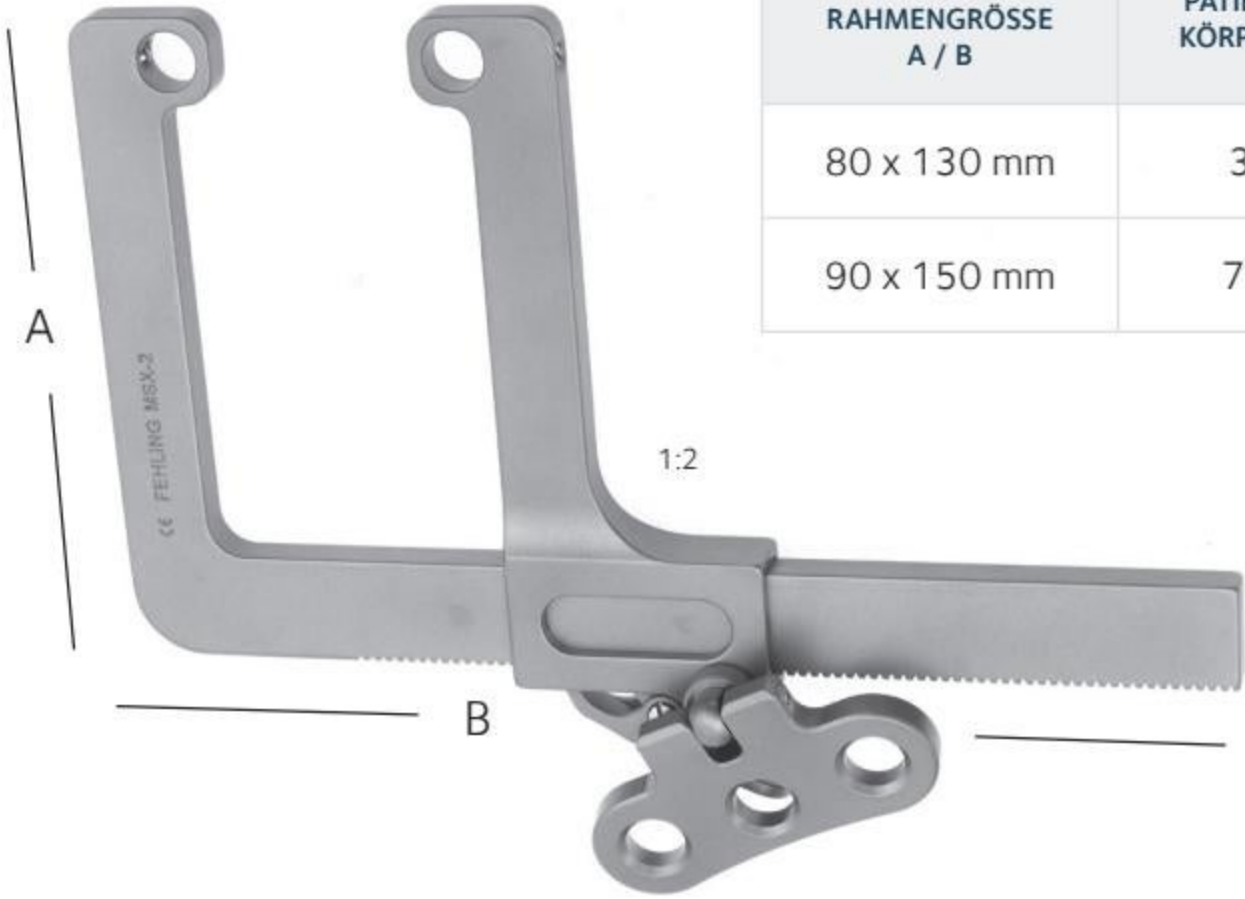
T Titanium Titan

\* Titanium instruments are highlighted with a light blue color

T V-CUT RETRACTOR BODY |  
V-CUT SPERRER RAHMEN

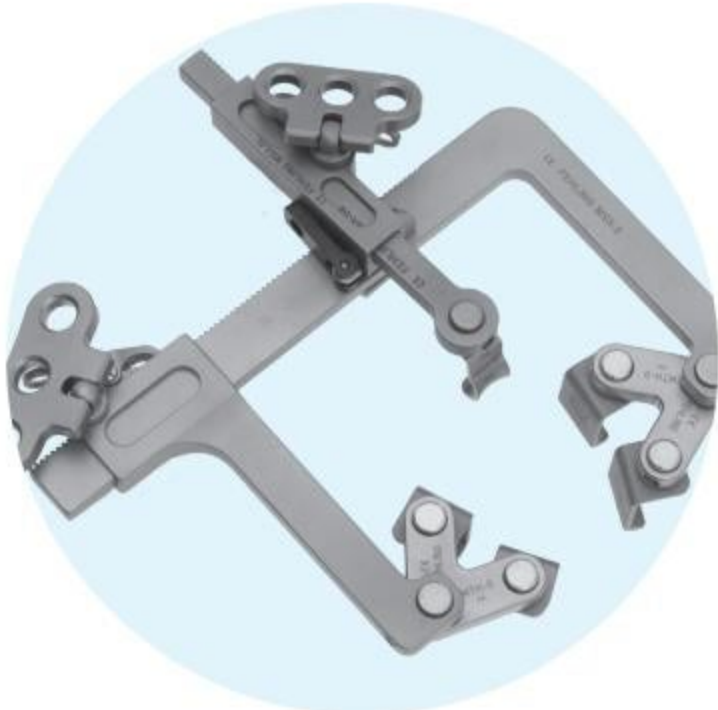
For pediatric surgery  
Für Kinderchirurgie

| BODY SIZE<br>RAHMENGROSSE<br>A / B | PATIENT WEIGHT<br>KÖRPERGEWICHT | SPREADING WIDTH<br>SPREIZWEITE | ART. NUMBER |
|------------------------------------|---------------------------------|--------------------------------|-------------|
| 80 x 130 mm                        | 3 - 7 kg                        | 60 mm                          | MSX-1       |
| 90 x 150 mm                        | 7 - 15 kg                       | 85 mm                          | MSX-2       |



BLADE GUIDE | HAKENFÜHRUNG

MSX-5A



Exemplary configuration.  
Konfigurationsbeispiel.

V-CUT RIDER | V-CUT SCHLITTEN

| BODY<br>RAHMEN                        | ART. NUMBER |
|---------------------------------------|-------------|
| STANDARD                              | MSX-5B      |
| ANGLE ADJUSTABLE<br>WINKELVERSTELLBAR | MSX-5C      |



Art. No: MSX-5B



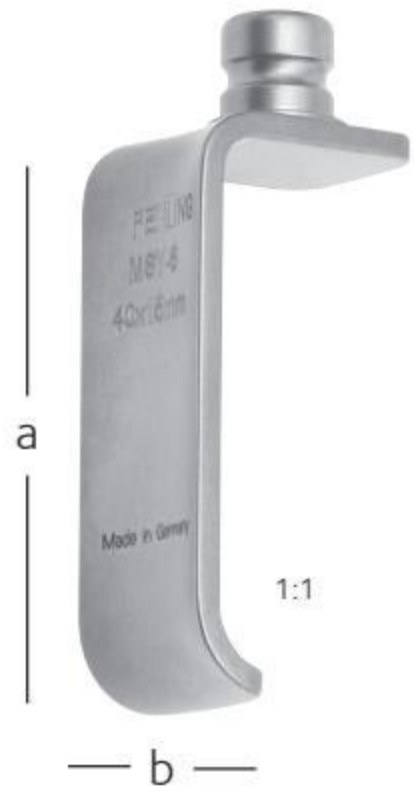
Art. No: MSX-5C



**T V-CUT DIAPHRAGM RETRACTOR |**  
**V-CUT ZWERCHFELLHAKEN**

For pediatric surgery  
Für Kinderchirurgie

| BODY SIZE<br>RAHMENGROSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 40 x 15 mm                         | MSY-6       |
| 40 x 24 mm                         | MSZ-6       |
| 50 x 15 mm                         | MSY-7       |
| 50 x 24 mm                         | MSZ-7       |
| 60 x 15 mm                         | MSY-8       |
| 60 x 24 mm                         | MSZ-8       |
| 70 x 15 mm                         | MSY-9       |
| 70 x 24 mm                         | MSZ-9       |



**T Titanium Titan**

\* Titanium instruments are highlighted with a light blue color

**T V-CUT STERNAL BLADE |**  
**V-CUT STERNUMHALTEBLATT**

For pediatric surgery  
Für Kinderchirurgie

| BODY SIZE<br>RAHMENGROSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 15 x 15 mm                         | MTH-3       |
| 15 x 20 mm                         | MTH-4       |
| 21 x 15 mm                         | MTH-5       |
| 21 x 20 mm                         | MTH-6       |
| 26 x 15 mm                         | MTH-7       |
| 26 x 20 mm                         | MTH-8       |



**T V-CUT LID RETRACTOR |**  
**V-CUT LIDHAKEN**

For pediatric surgery  
Für Kinderchirurgie

| BODY SIZE<br>RAHMENGROSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 20 x 10 mm                         | MSX-6       |
| 30 x 10 mm                         | MSX-7       |
| 40 x 10 mm                         | MSX-8       |



**MARJAN MGH UNIVERSAL STERNUM RETRACTORS |**  
**MARJAN MGH UNIVERSAL STERNOTOMIESPREIZER**



Partial sternotomy  
Partielle Sternotomie



Total sternotomy  
Totale Sternotomie



Ima exposure  
Ima Exposition

**MARJAN MGH UNIVERSAL BODY |**  
**MARJAN MGH UNIVERSAL RAHMEN**

MRY-6

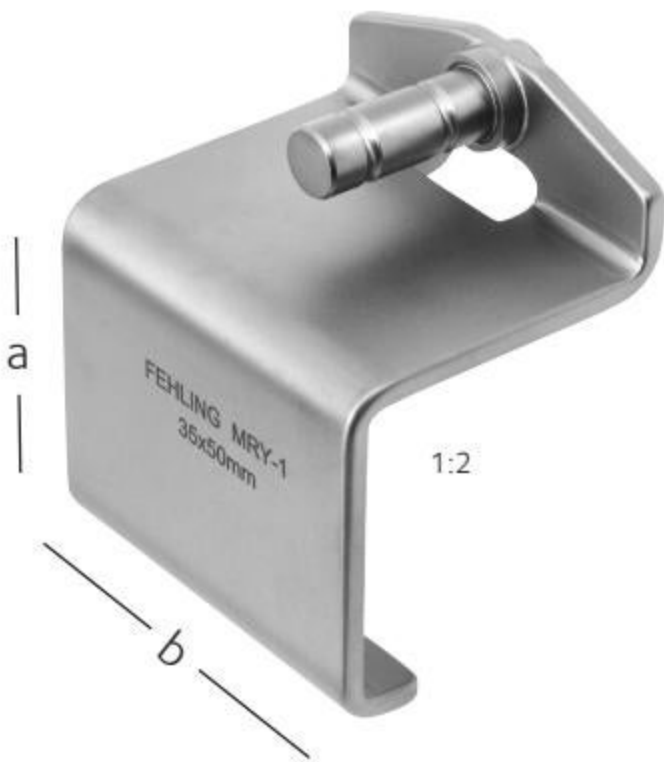




MARJAN MGH RETRACTING BLADES |  
MARJAN MGH HALTEBLÄTTER

For partial sternotomy / L-Cut (pair)  
Für partielle Sternotomie / L-Schnitt (Paar)

| BODY SIZE<br>RAHMENGROSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 35 x 50 mm                         | MRY-1       |



MARJAN MGH RETRACTING BLADES |  
MARJAN MGH HALTEBLÄTTER

For total sternotomy, convex (pair)  
Für totale Sternotomie, konvex (paar)

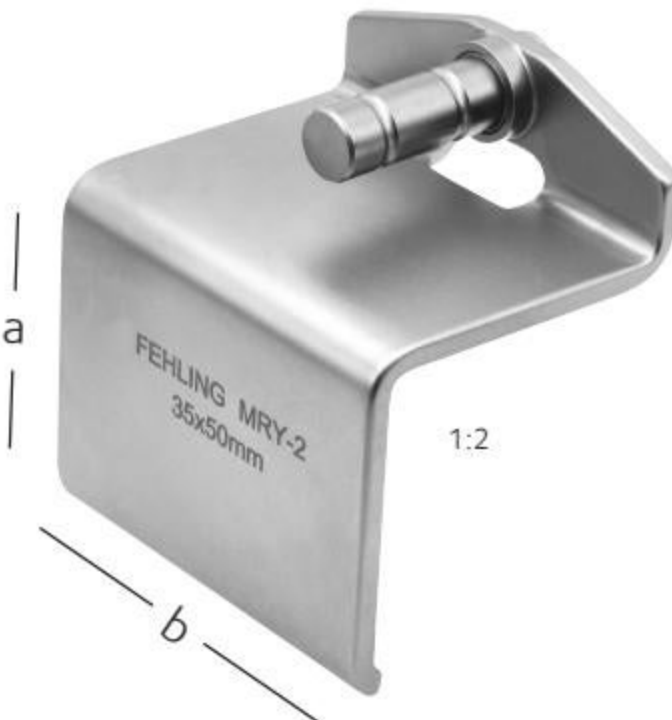
| BODY SIZE<br>RAHMENGROSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 34 x 100 mm                        | MRY-7       |
| 43 x 100 mm                        | MRY-8       |
| 50 x 100 mm                        | MRY-9       |



MARJAN MGH RETRACTING BLADES |  
MARJAN MGH HALTEBLÄTTER

For partial sternotomy / Z-Cut (pair)  
Für partielle Sternotomie / Z-Schnitt (Paar)

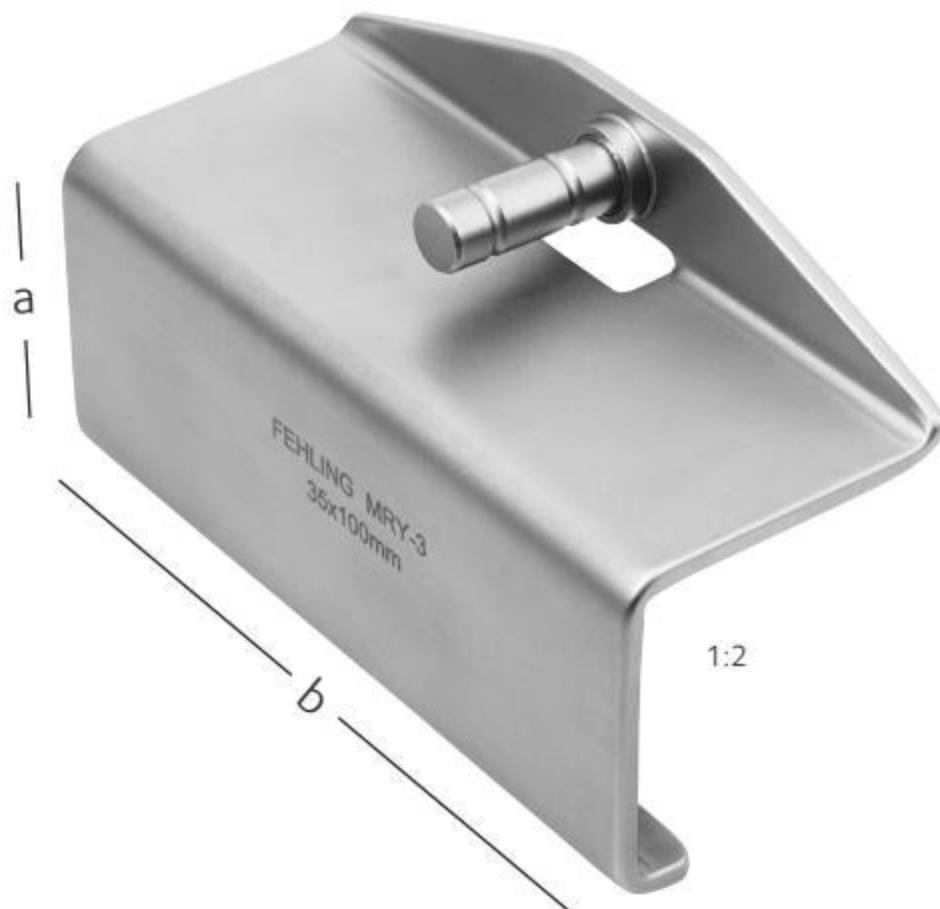
| BODY SIZE<br>RAHMENGROSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 35 x 50 mm                         | MRY-2       |



MARJAN MGH RETRACTING BLADES |  
MARJAN MGH HALTEBLÄTTER

For total sternotomy  
Für totale Sternotomie

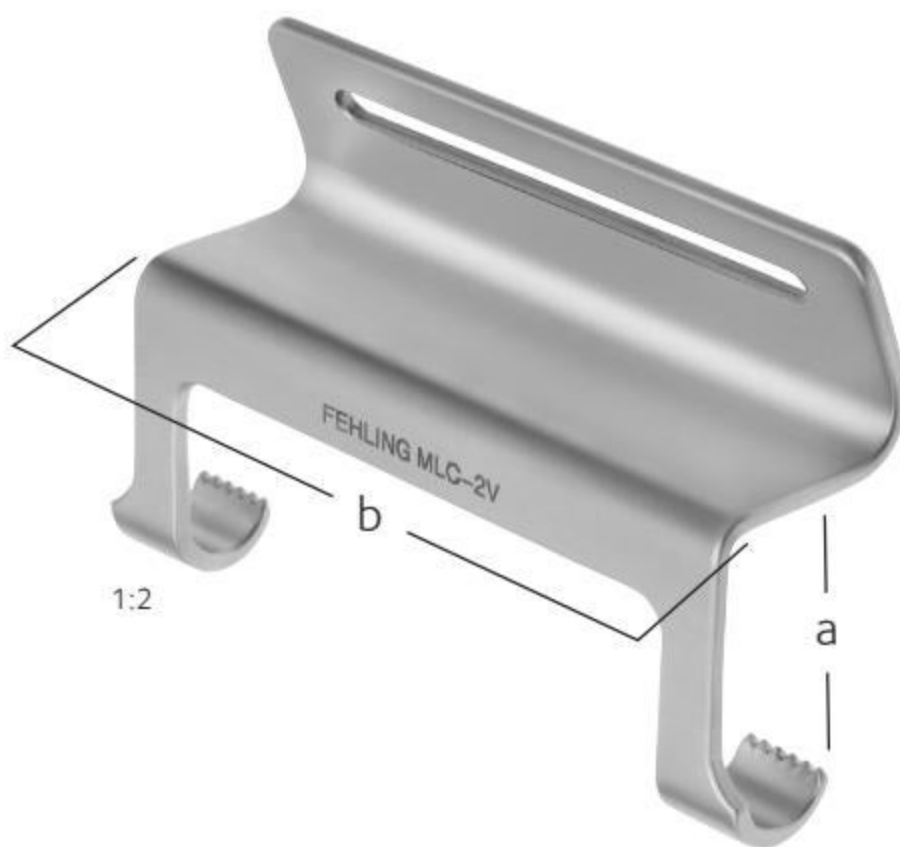
| BODY SIZE<br>RAHMENGROSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 35 x 70 mm                         | MRY-3K      |
| 35 x 100 mm                        | MRY-3       |
| 45 x 100 mm                        | MRY-4       |



BAYKUT RETRACTING BLADES |  
BAKYUT HALTEBLÄTTER

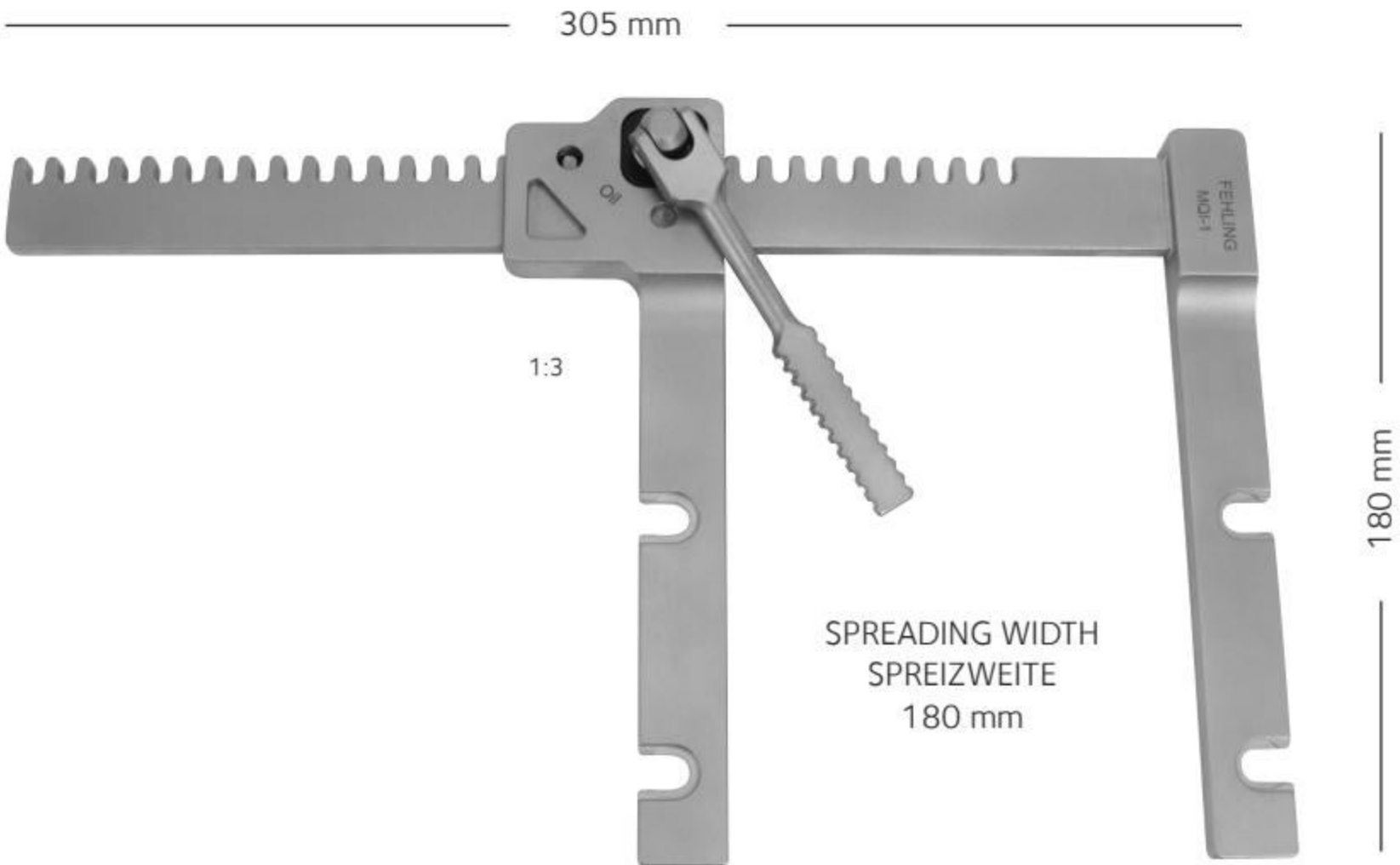
IMA retracting blade  
IMA Halteblatt

| BODY SIZE<br>RAHMENGROSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 15 x 90 mm                         | MLC-2V      |
| 15 x 120 mm                        | MLM-3V      |



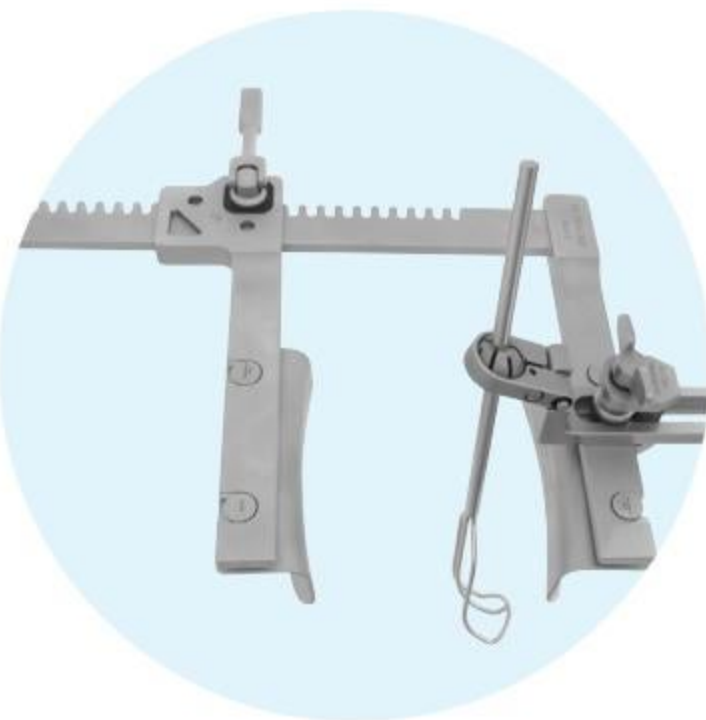
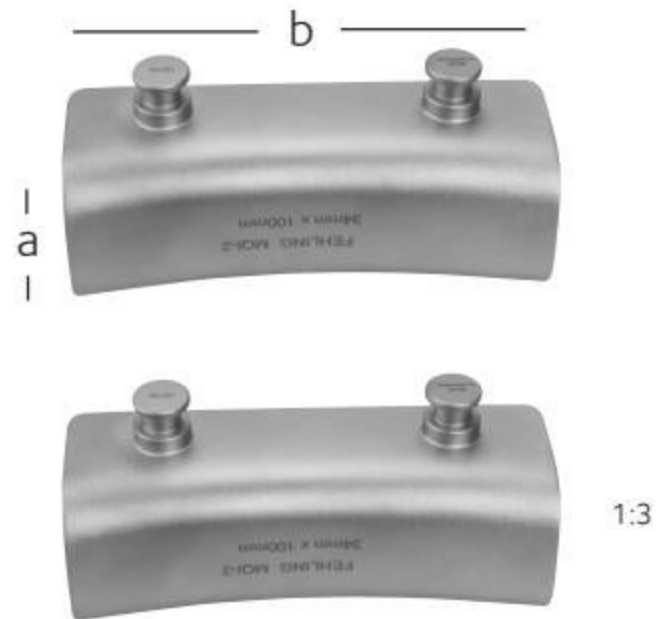


FALK BODY |  
FALK RAHMEN  
MQI-1



FALK RETRACTOR BLADES (PAIR) |  
FALK SPREIZERBLATT (PAAR)

| BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 34 x 100 mm                        | MQI-2       |
| 43 x 100 mm                        | MQI-3       |

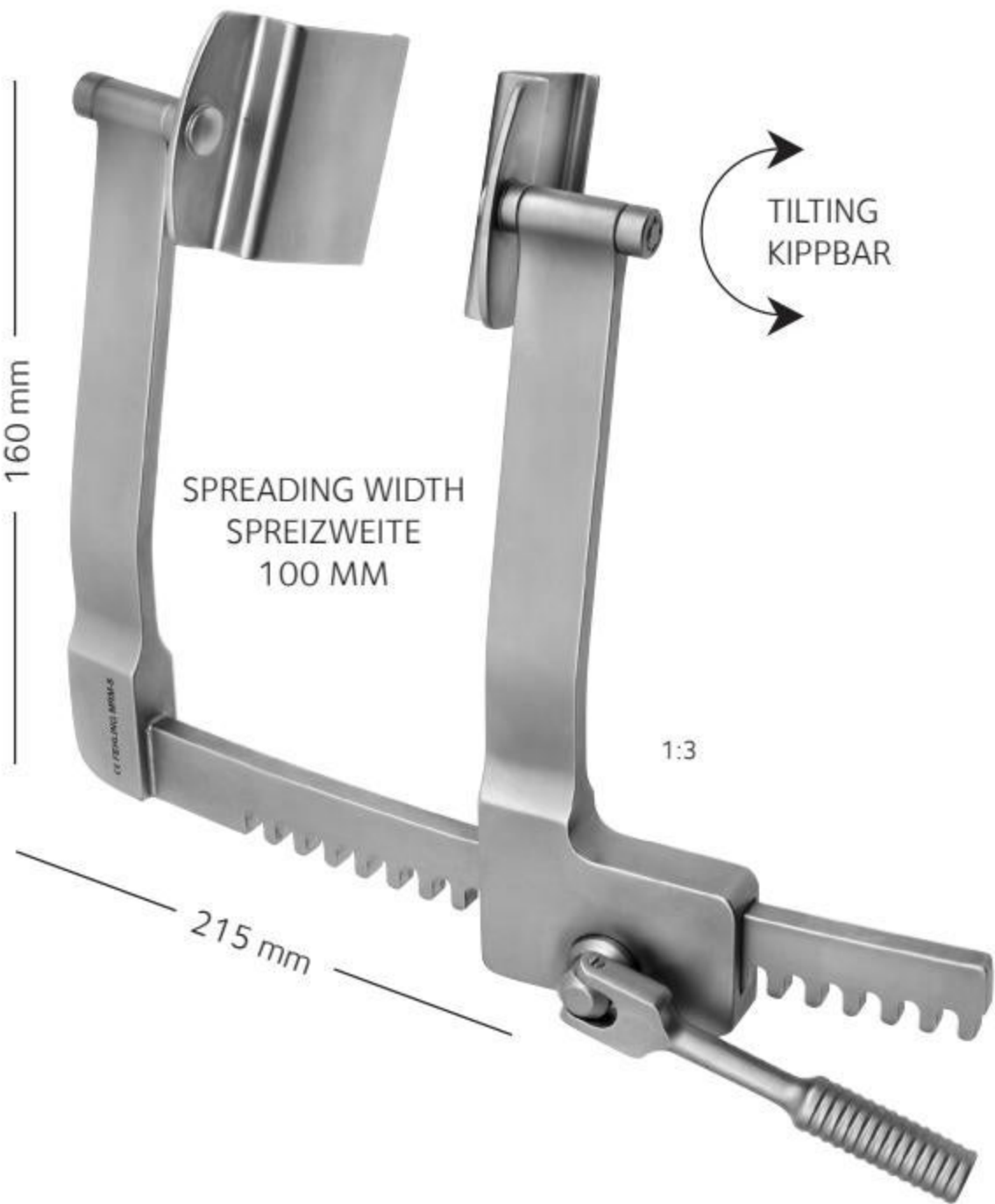


Exemplary configuration  
Konfigurationsbeispiel

MARJAN RETRACTORS |  
MARJAN SPREIZER

For partial sternotomy  
Für partielle Sternotomie

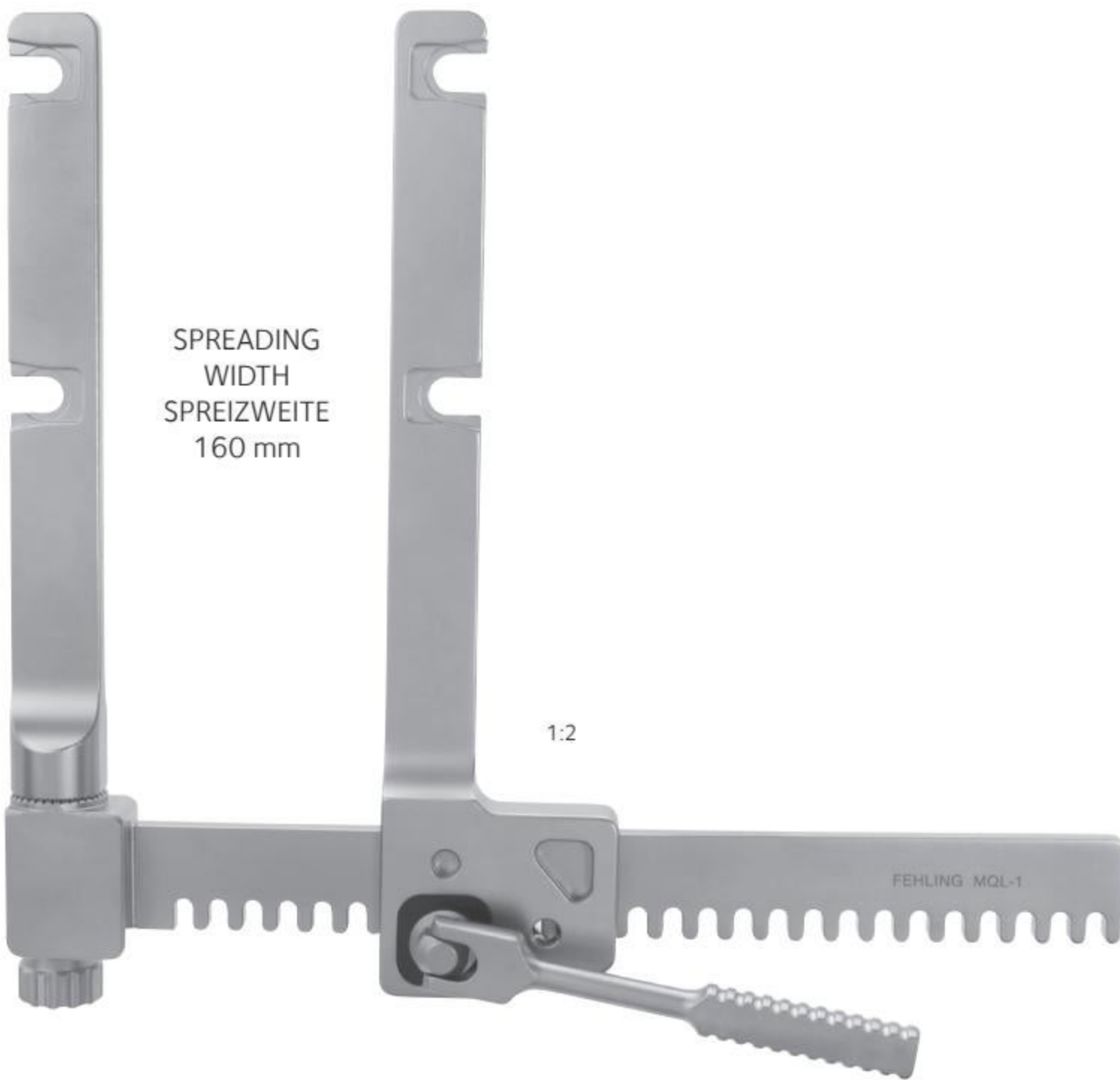
| BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 35 x 50 mm                         | MRM-5       |





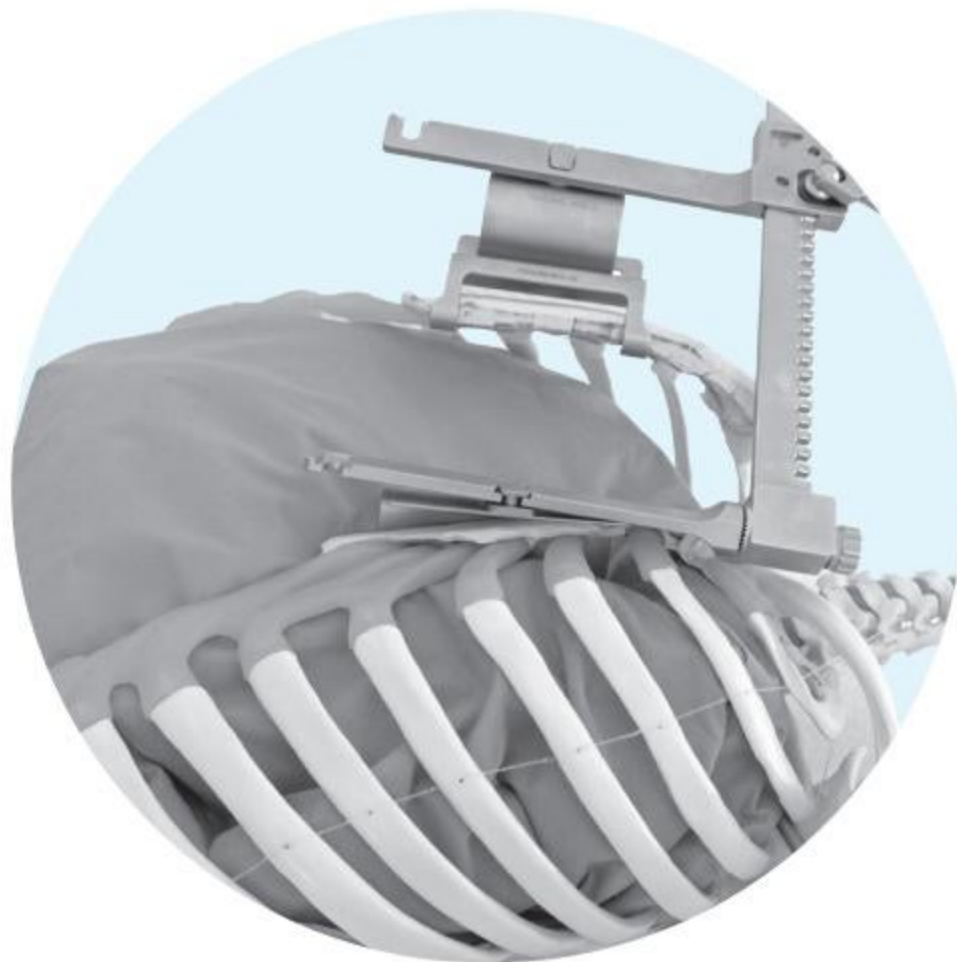
**CEBOTARI UNIVERSAL STERNAL RETRACTOR |**  
CEBOTARI UNIVERSAL STERNUMSPREIZER

MQL-1

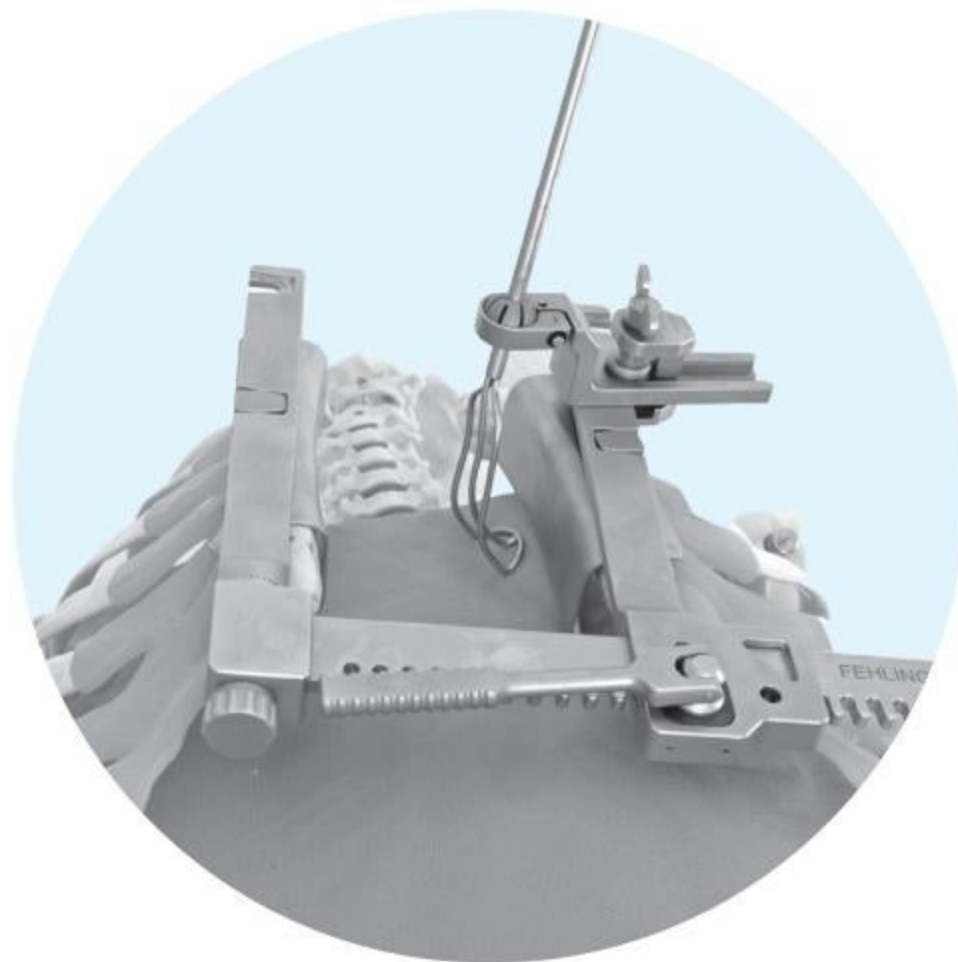


**CEBOTARI IMA BLADE |**  
CEBOTARI IMA-BLATT

MQL-3



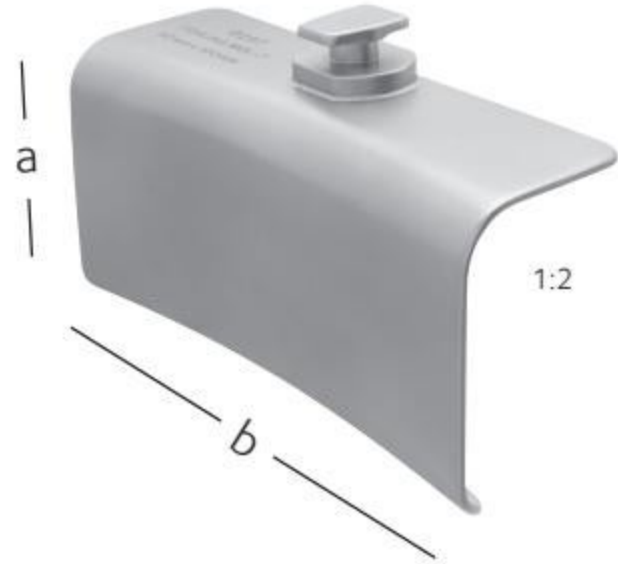
Exemplary configuration for  
IMA exposure<sup>1</sup>  
Konfigurationsbeispiel als  
IMA-Spreizer<sup>1</sup>



Exemplary configuration with  
atrial retractor<sup>2</sup>  
Konfigurationsbeispiel mit  
atrialem Haken<sup>2</sup>

**CEBOTARI STERNOTOMY BLADE (PAIR) |**  
CEBOTARI STERNUMBLATT (PAAR)

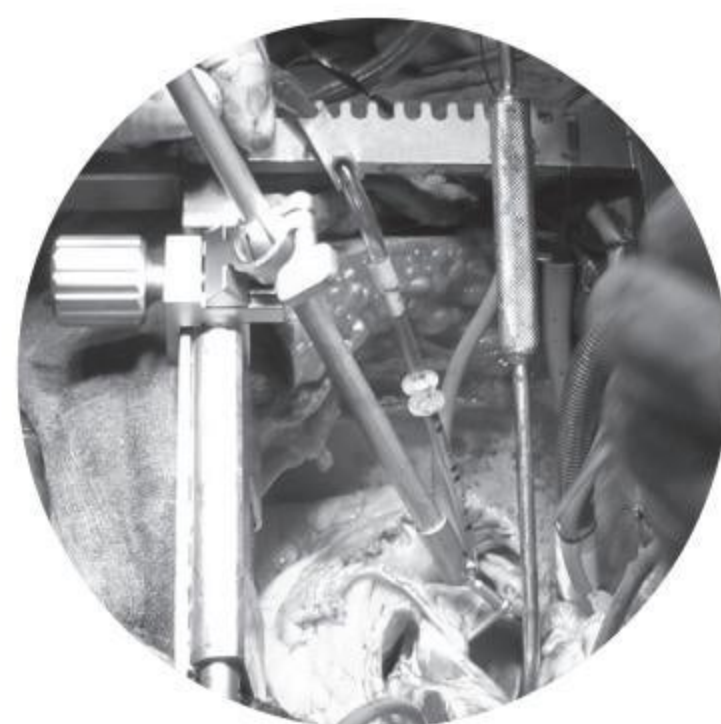
| BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 34 x 50 mm                         | MQL-4       |
| 43 x 50 mm                         | MQL-5       |
| 34 x 100 mm                        | MQL-6       |
| 43 x 100 mm                        | MQL-2       |
| 50 x 100 mm                        | MQL-7       |
| 43 x 120 mm                        | MQM-1       |



**ACCESSORIES / ZUBEHÖR**

- <sup>1</sup> for IMA exposure / zur Darstellung der IMA  
Baykut-IMA blade / Baykut-IMA-Blatt  
MLC-2V  
see page 42 / siehe Seite 42
- <sup>2</sup> for atrial retraction / zur Vorhofretraktion  
Ball adapter / Kugeladapter +  
Atrial retractor / Vorhofhaken  
see page 54 / siehe Seite 54





Exemplary configuration  
Konfigurationsbeispiel

### BLADE GUIDE | HAKENFÜHRUNG

MRF-0V  
200 mm



### BALL JOINT ADAPTER\* | KUGELGELENKADAPTER\*

MRF-1V  
For blade guide MRF-0V  
Für Hakenführung MRF-0V

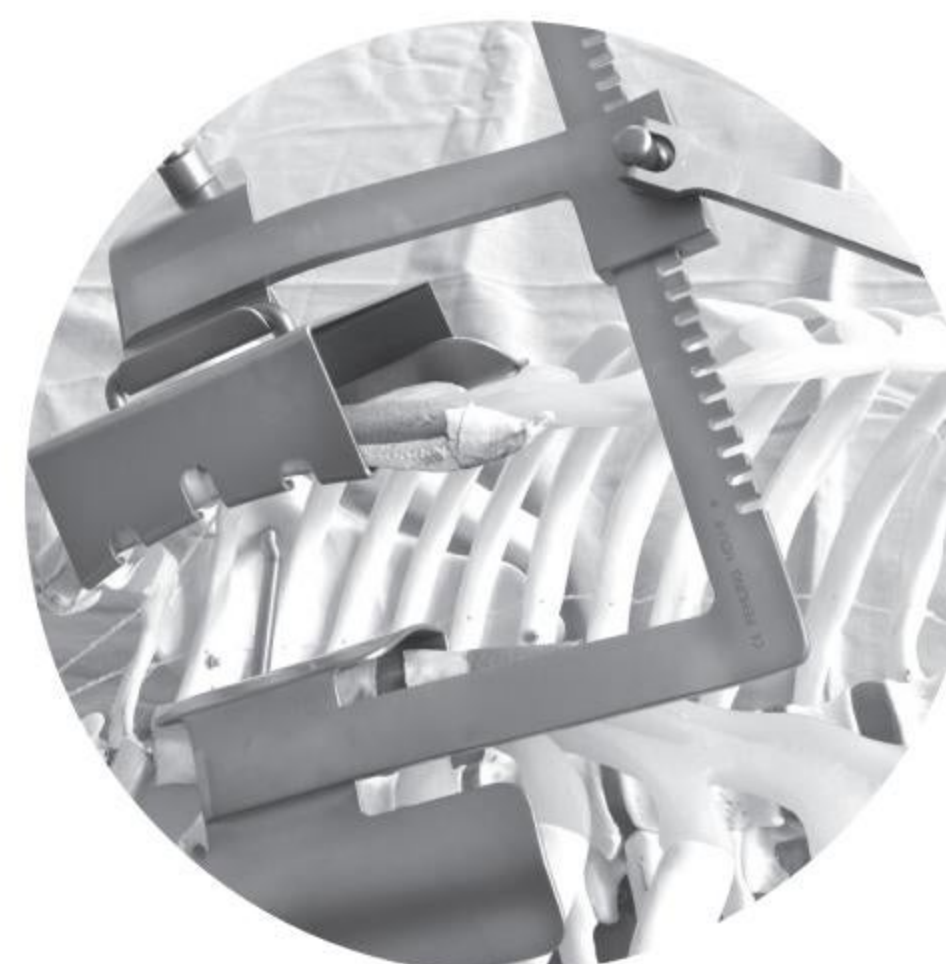


### MYOCARDIAL STABILIZER | HERZMUSKELSTABILISATOR

MRR-3V



\* Adaptable to most sternal retractors  
\* Verwendbar für die meisten Sternumspreizer



Exemplary configuration  
Konfigurationsbeispiel

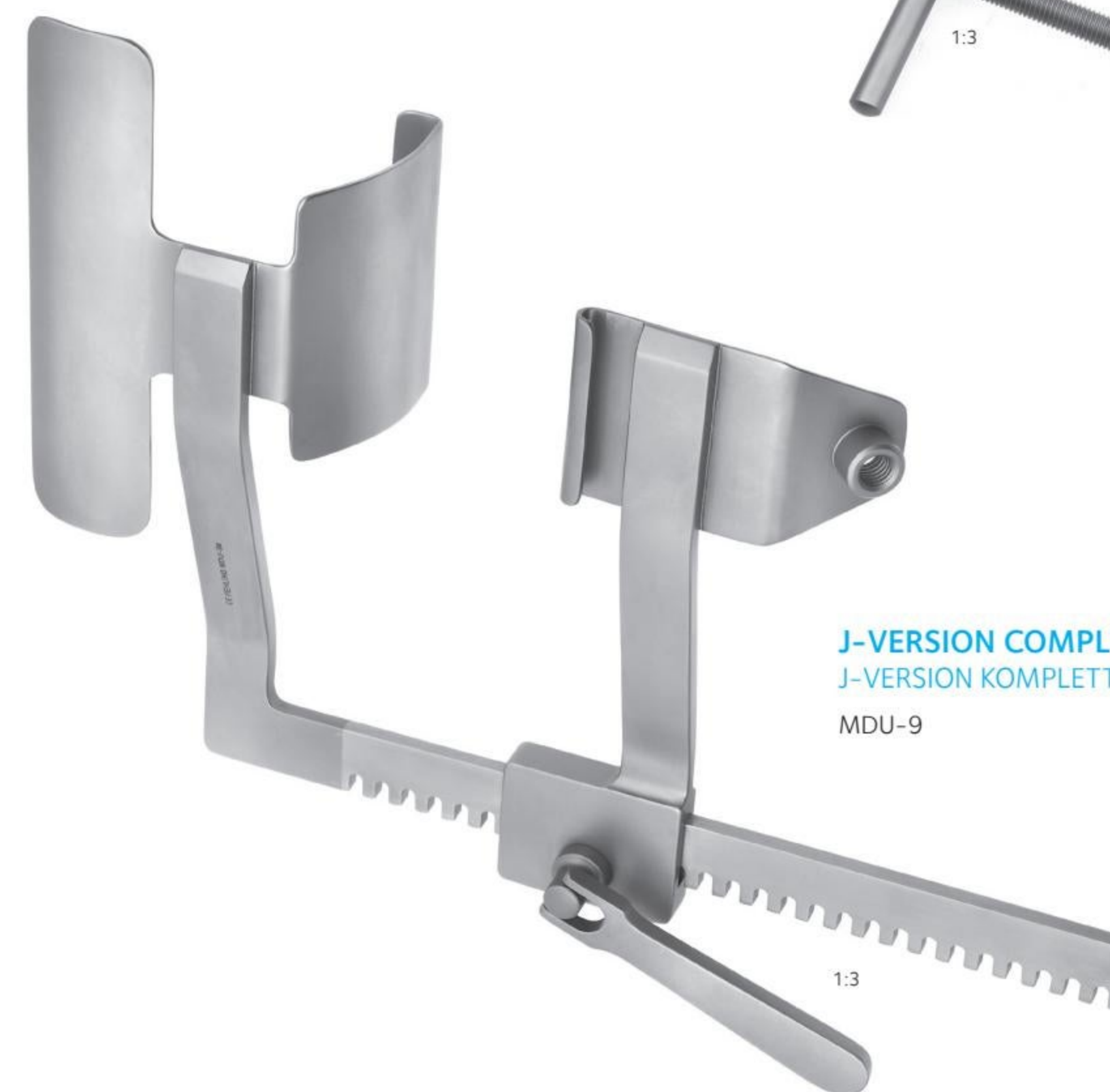
### J-VERSION IMA-BLADE | J-VERSION IMA-BLATT

MDU-9B



### J-VERSION ADJUSTMENT SCREW | J-VERSION EINSTELLSCHRAUBE

MDU-9C



### J-VERSION COMPLETE SET | J-VERSION KOMPLETTSET

MDU-9

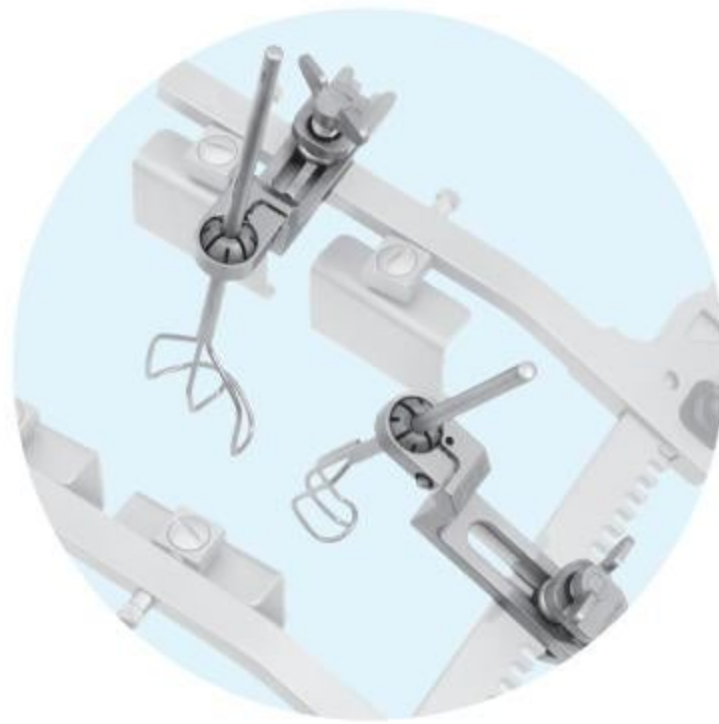
### J-VERSION BODY | J-VERSION RAHMEN

MDU-9R



**BALL JOINT ADAPTER BAYONET\* + CLAMPING ELEMENT | KUGELADAPTER, BAYONETT\* + BEFESTIGUNGSELEMENT**

MRV-OF  
MZZ-1N



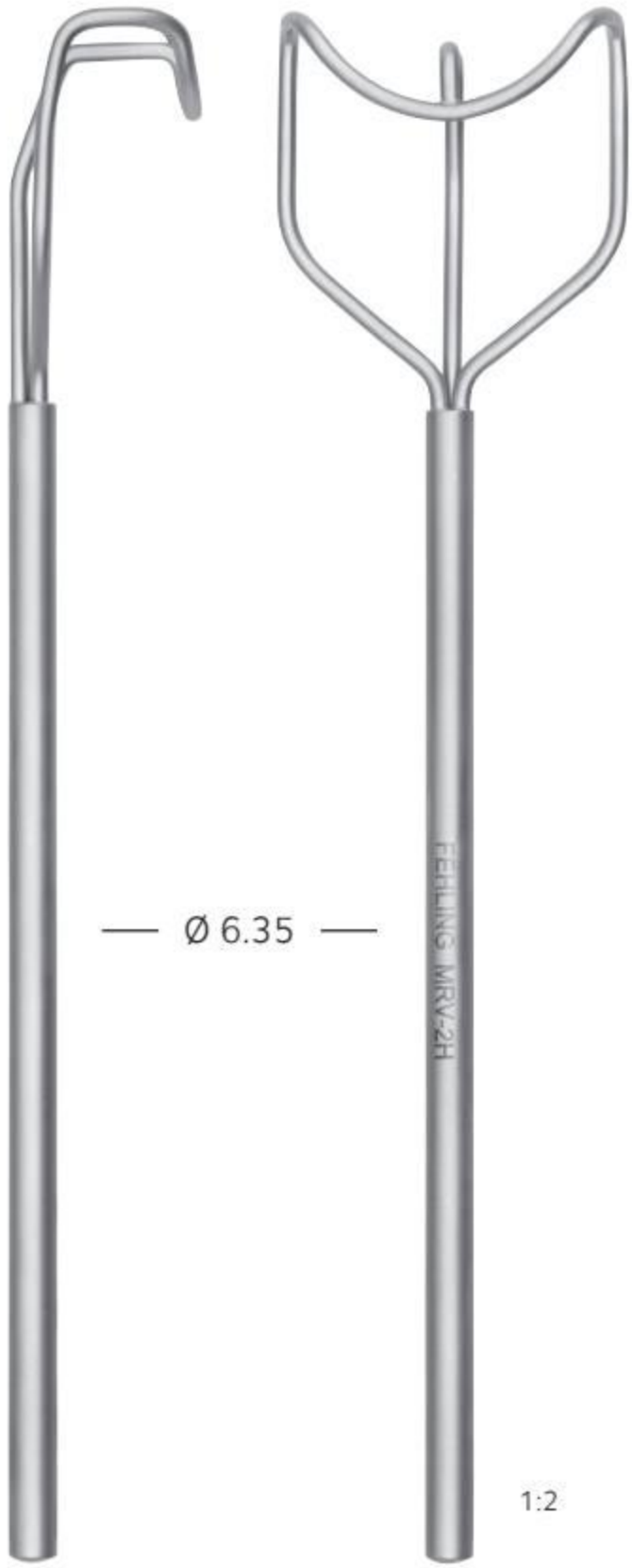
Exemplary configuration  
Konfigurationsbeispiel

\* Additional suitable adapters and clamping elements *see page 72*  
\* Weitere passende Adapter und Befestigungselemente *siehe Seite 72*

**HOHE ATRIAL RETRACTORS TRICUSPID | HOHE VORHOFHAKEN TRICUSPID**

Malleable  
Biegsam

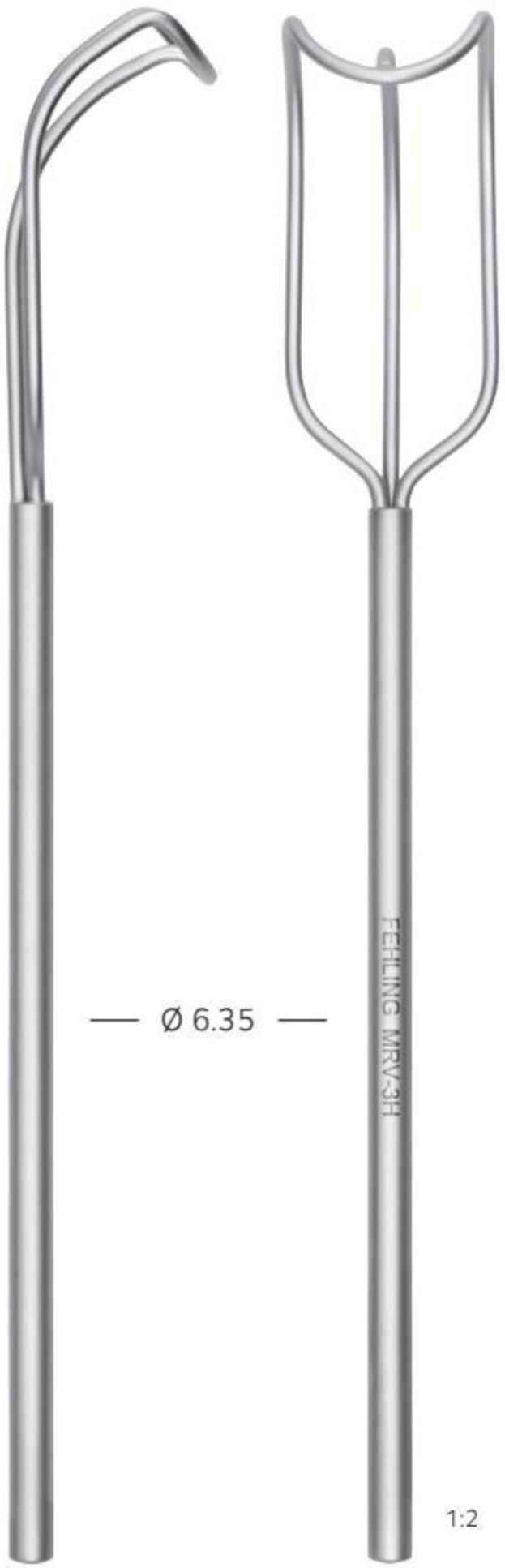
| LENGTH<br>LÄNGE | BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|-----------------|------------------------------------|-------------|
| 200 mm          | 45 x 45 mm                         | MRV-2L      |



**HOHE ATRIAL RETRACTORS | HOHE VORHOFHAKEN**

Malleable  
Biegsam

| LENGTH<br>LÄNGE | BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|-----------------|------------------------------------|-------------|
| 150 mm          | 65 x 30 mm                         | MRV-3H      |
| 200 mm          | 65 x 30 mm                         | MRV-3L      |



- Inside screw prevents jammed sutures and is space saving; **cardan screwdriver LMT-4** required for tightening.  
For adapters with wing screw no screwdriver required.
- Innenliegende Schraube verhindert Einklemmen von Fäden und spart Platz; **Kardan Schraubendreher LMT-4** zum Anziehen erforderlich.  
Für Adapter mit Flügelschraube kein Schraubendreher erforderlich.





HOHE ATRIAL RETRACTORS |  
HOHE VORHOFHAKEN

Malleable  
Biegsam

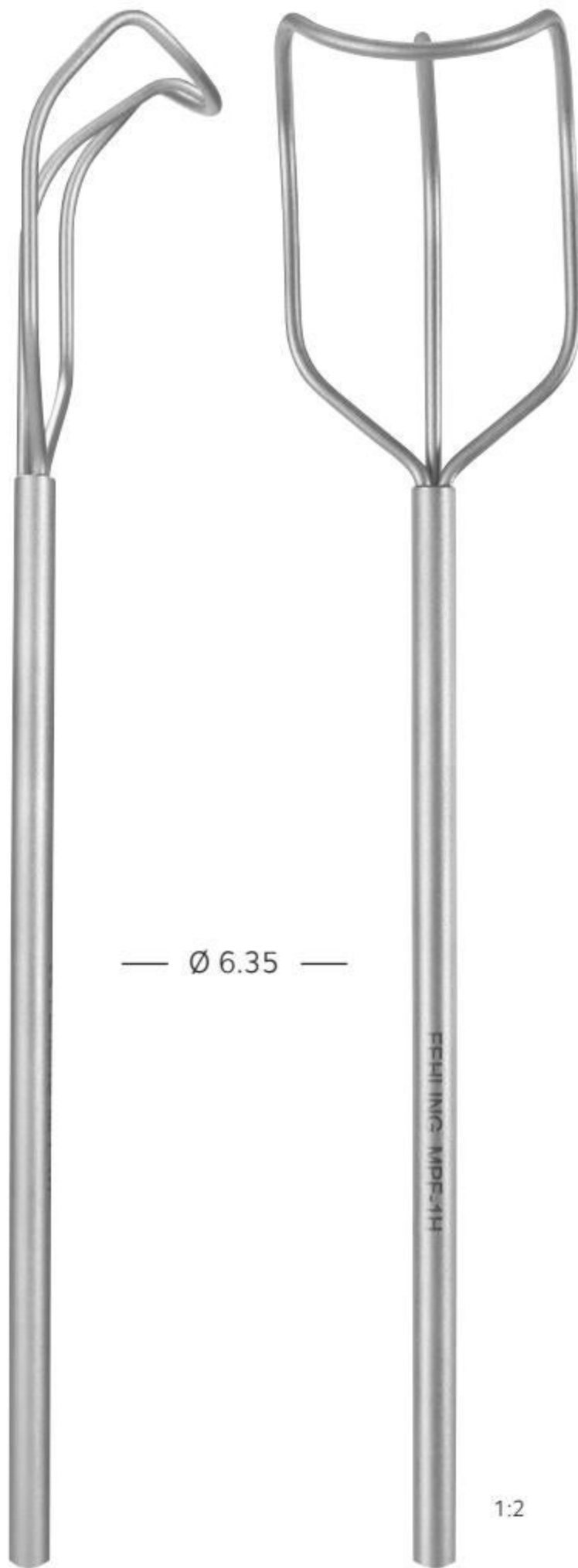
| LENGTH<br>LÄNGE | BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|-----------------|------------------------------------|-------------|
| 150 mm          | 65 x 20 mm                         | MRV-4H      |
| 200 mm          | 65 x 20 mm                         | MRV-4L      |



HOHE ATRIAL RETRACTORS |  
HOHE VORHOFHAKEN

Malleable  
Biegsam

| LENGTH<br>LÄNGE | BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|-----------------|------------------------------------|-------------|
| 200 mm          | 65 x 40 mm                         | MPF-1H      |





**BALL JOINT ADAPTER BAYONET\***  
**LENGTH AND HEIGHT VARIABLE +**  
**CLAMPING ELEMENT | CLAMPING ELEMENT**  
**KUGELADAPTER, BAYONETT\* LÄNGE UND HÖHE**  
**VARIABLE + BEFESTIGUNGSELEMENT**

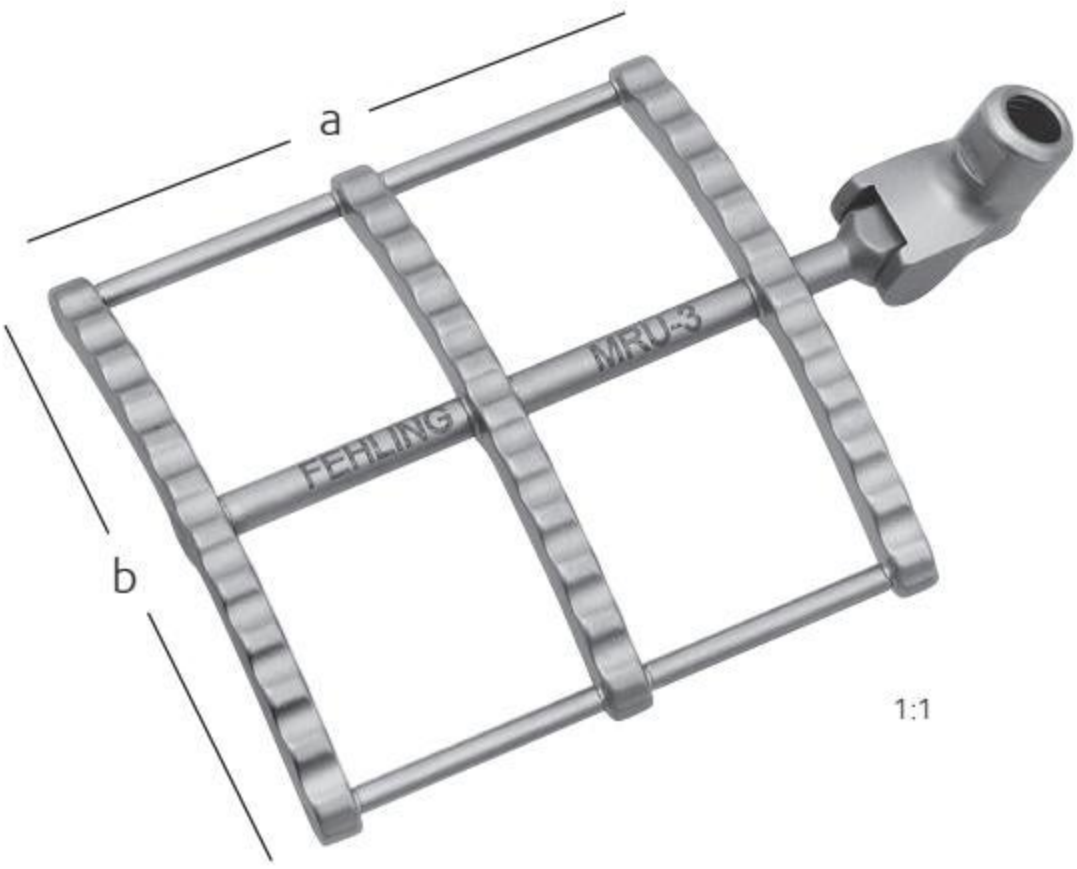
MRU-8F  
MZZ-1N



- Inside screw prevents jammed sutures and is space saving; **cardan screwdriver LMT-4** required for tightening.
- Innenliegende Schraube verhindert Einklemmen von Fäden und spart Platz; **Kardan Schraubendreher LMT-4** zum Anziehen erforderlich.

**ATRIAL BLADE |**  
**VORHOFBÜGEL**

| BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 45 x 30 mm                         | MRU-1       |
| 60 x 30 mm                         | MRU-2       |
| 45 x 45 mm                         | MRU-3       |
| 60 x 45 mm                         | MRU-4       |



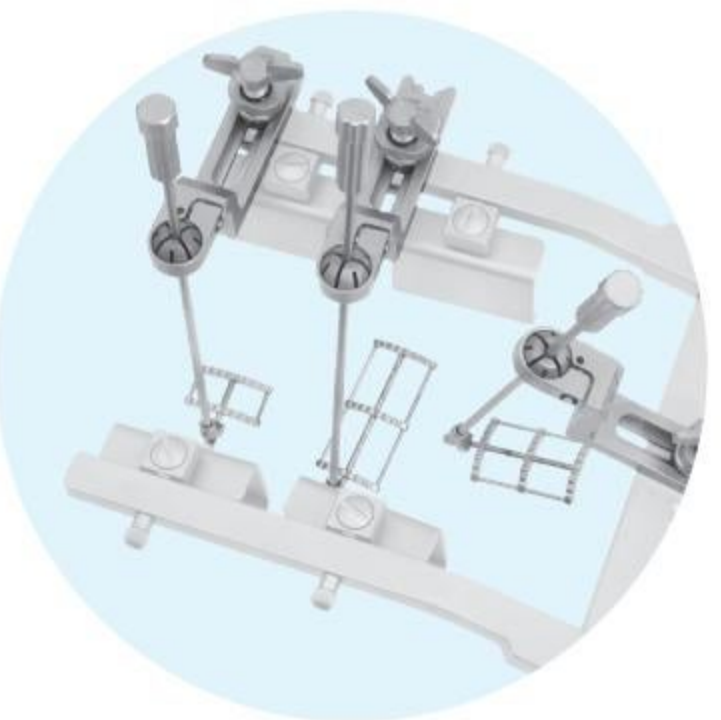
**ATRIAL BLADE |**  
**VORHOFBÜGEL**

For tricuspidal valve  
Für Trikuspidalklappe

| BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 18 x 35 mm                         | MRU-5       |



- \* Additional suitable adapters and clamping elements *see page 72*
- \* Weitere passende Adapter und Befestigungselemente *siehe Seite 72*



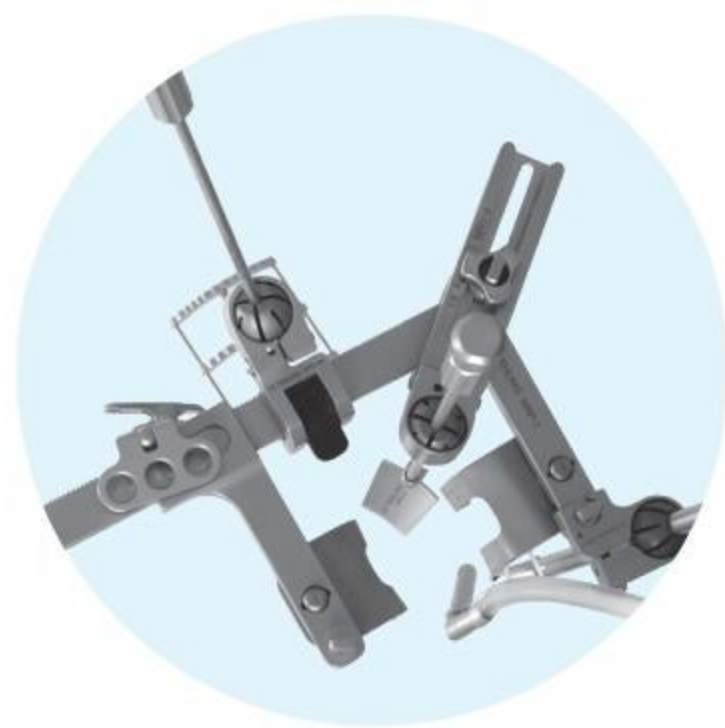
Exemplary configuration  
Konfigurationsbeispiel

**BLADE GUIDE |**  
**HAKENFÜHRUNG**

| LENGTH<br>LÄNGE | ART. NUMBER |
|-----------------|-------------|
| 220 mm          | MRN-3       |





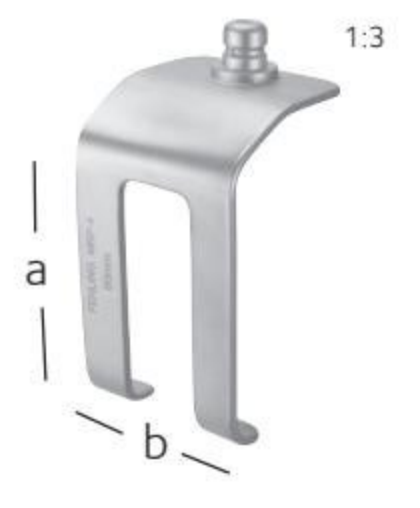


Exemplary configuration  
Konfigurationsbeispiel



Exemplary configuration  
Konfigurationsbeispiel

**RETRACTING BLADES (PAIR)\* |**  
HALTEBLÄTTER (PAAR)\*

| BLADE SIZE<br>BLATTGRÖSSE<br>a x b |  |        |        |        |
|------------------------------------|------------------------------------------------------------------------------------|--------|--------|--------|
|                                    | MRP-2                                                                              | MRP-2V | MRP-2F | MRP-2K |
| 40 x 35 mm                         | MRP-2                                                                              | MRP-2V | MRP-2F | MRP-2K |
| 50 x 35 mm                         | MRP-3                                                                              | MRP-3V | MRP-3F |        |
| 60 x 35 mm                         | MRP-4                                                                              | MRP-4V | MRP-4F | MRP-4K |
| 70 x 35 mm                         | MRO-7                                                                              | MRO-7V |        |        |

**CERAMO® SPATULA (WAISTED) |**  
CERAMO® SPATEL (TALLIERT)

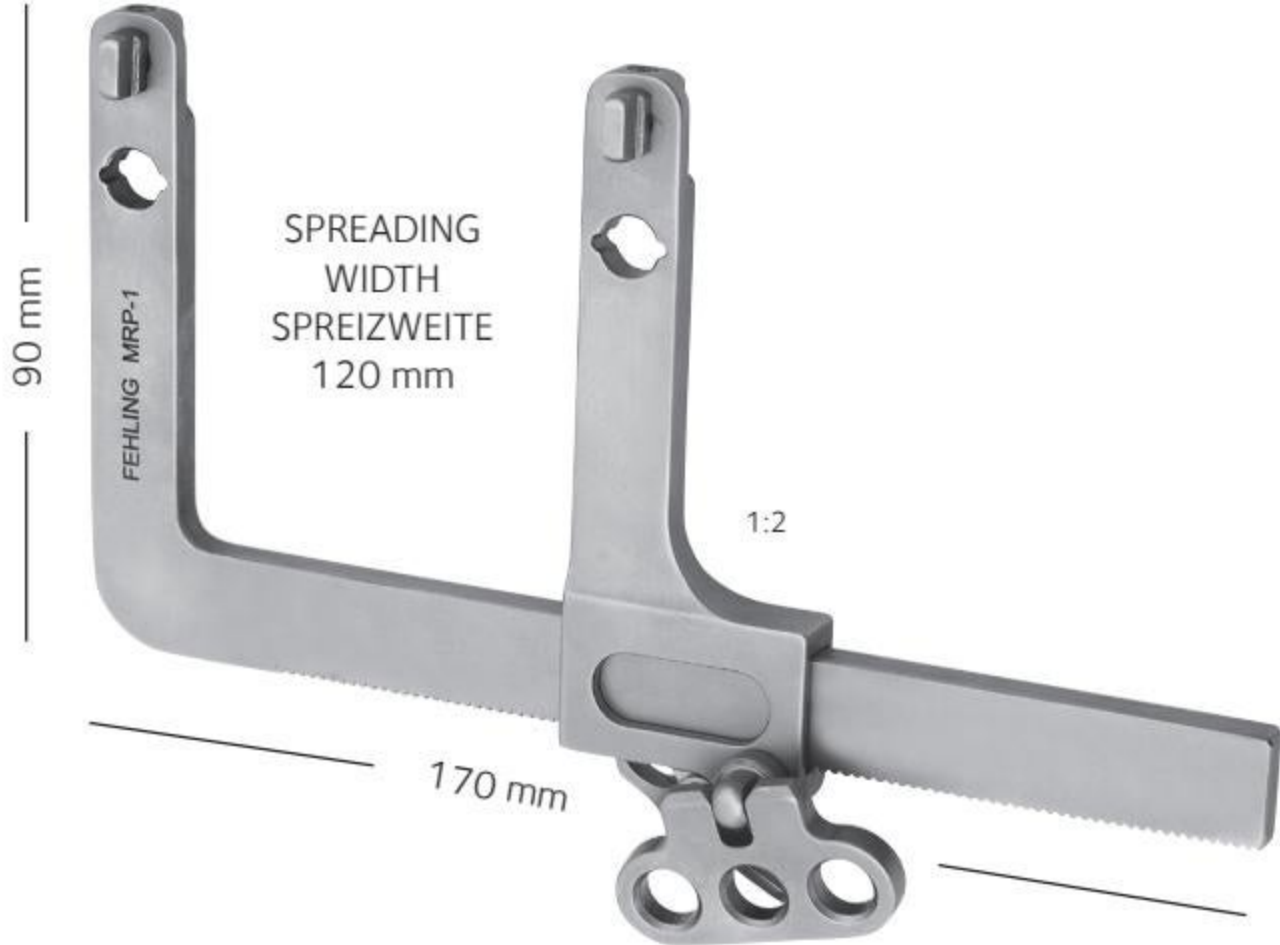
| LENGTH x WIDTH<br>LÄNGE x BREITE | TURNING & SWINGING<br>SCHWENKBARKEIT | ART. NUMBER |
|----------------------------------|--------------------------------------|-------------|
| 24 x 250 mm                      | 60°                                  | EOJ-8       |
|                                  | 40°                                  | EOJ-9       |



1:2

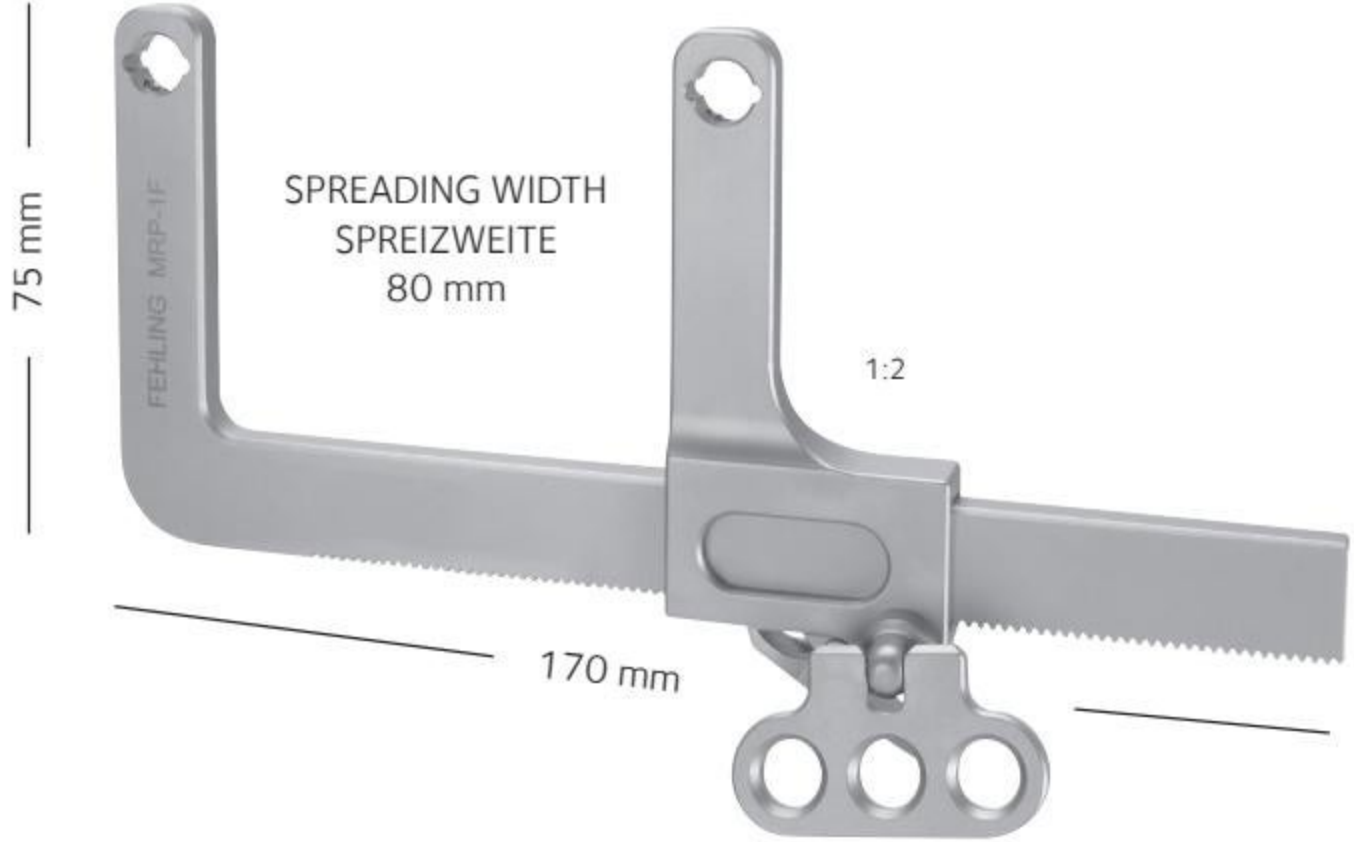
**INTERCOSTAL RETRACTOR |**  
INTERCOSTALSPREIZER

MRP-1



**INTERCOSTAL RETRACTOR SHORT ARM |**  
INTERCOSTALSPREIZER KURZARM

MRP-1F





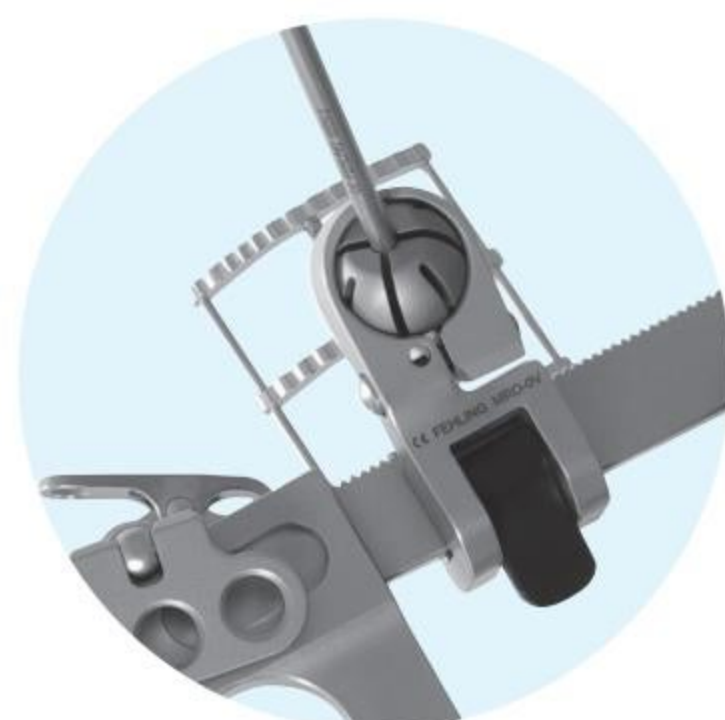
**MVR RETRACTOR ACCESSORIES**

MKR SPREIZER ZUBEHÖR

**BLADE GUIDE |**  
HAKENFÜHRUNG

MRN-3

220 mm

**RETRACTION OF THE AORTIC ROOF**  
RETRAKTION DES VORHOFDACHSExemplary configuration  
Konfigurationsbeispiel

- Inside screw prevents jammed sutures and is space saving; **cardan screwdriver LMT-4** required for tightening.

For adapters with wing screw no screwdriver required.

- Innenliegende Schraube verhindert Einklemmen von Fäden und spart Platz; **Kardan Schraubendreher LMT-4** zum Anziehen erforderlich.

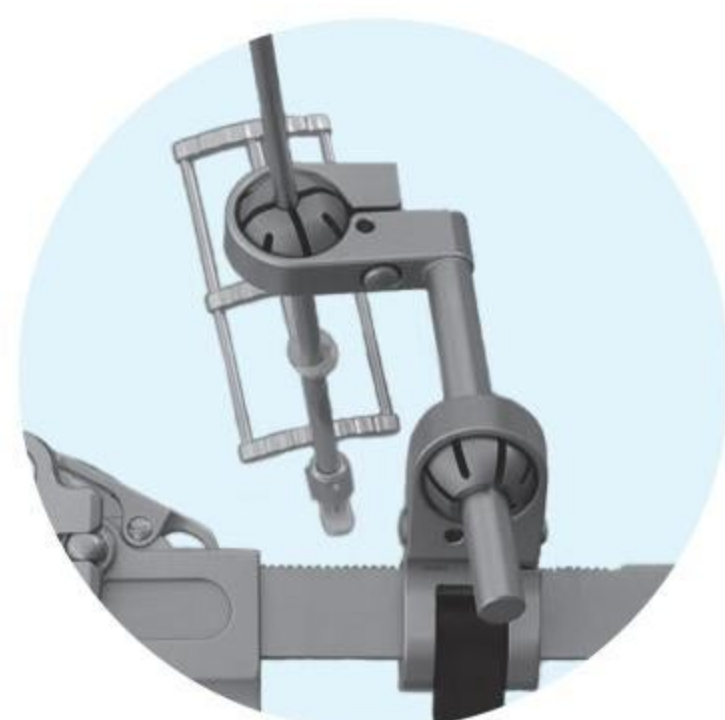
Für Adapter mit Flügelschraube kein Schraubendreher erforderlich.

**BALL ADAPTER |**  
KUGELADAPTER

MRO-OV

\* With wing screw: MRO-0

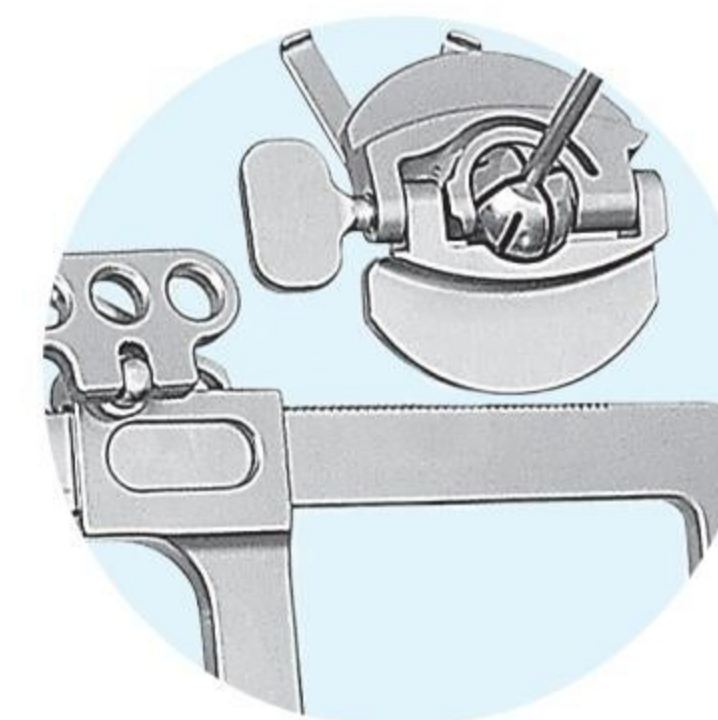
\* Mit Flügelschraube: MRO-0

Exemplary configuration  
Konfigurationsbeispiel**BALL ADAPTER FOR MRR-2V/L |**  
KUGELADAPTER FÜR MRR-2V/L

MRR-1V

\* With wing screw: MRR-1

\* Mit Flügelschraube: MRR-1

Exemplary configuration  
Konfigurationsbeispiel**BALL ADAPTER WITH DISTANCE ELEVATOR |**  
KUGELADAPTER MIT DISTANZHEBEL

MRR-2V

\* With wing screw: MRR-2

\* Mit Flügelschraube: MRR-2

**FIXATION DEVICE FOR MRN-3 |**  
FIXIERVORRICHTUNG FÜR MRN-3

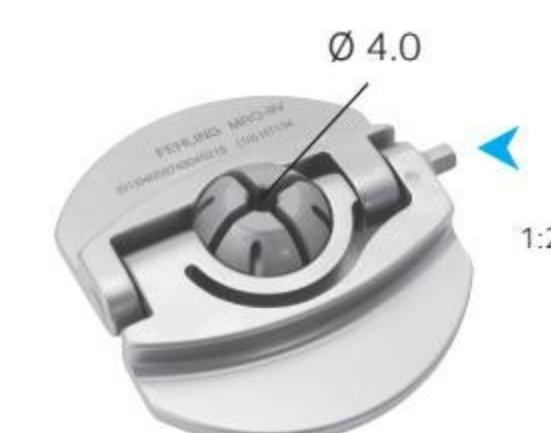
MRO-9

For external stab incision  
Für separate Stichinzision

**FIXATION DEVICE FOR MRN-3 |**  
FIXIERVORRICHTUNG FÜR MRN-3

MRO-9V

For external stab incision  
Für separate Stichinzision

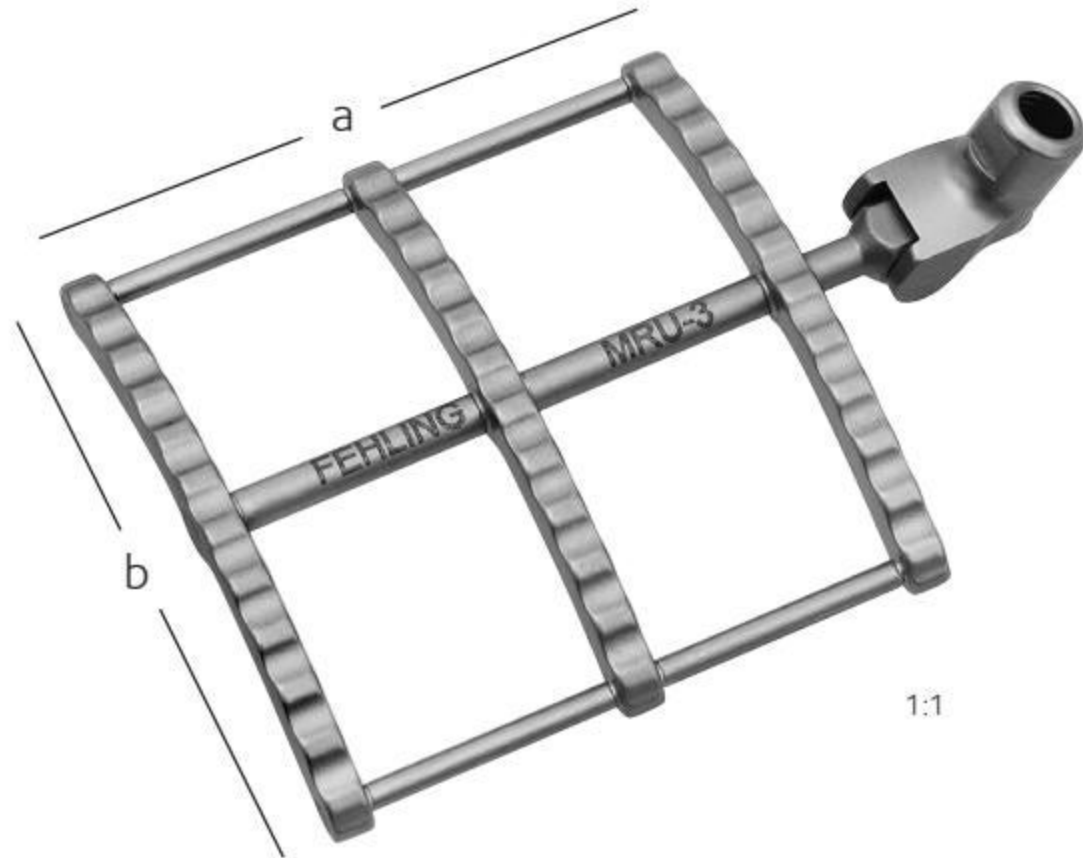




MVR RETRACTOR ACCESSORIES  
MKR SPREIZER ZUBEHÖR

ATRIAL BLADE |  
VORHOFBÜGEL

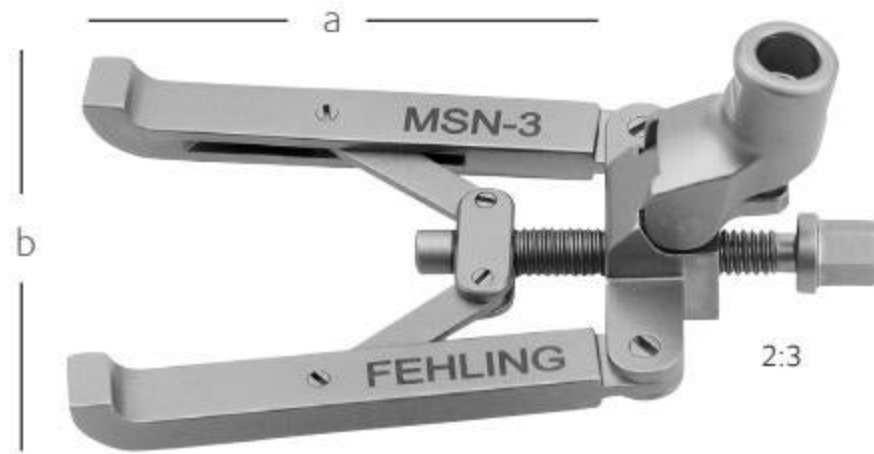
| BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 30 x 30 mm                         | MRX-2       |
| 30 x 45 mm                         | MRX-3       |
| 45 x 30 mm                         | MRU-1       |
| 60 x 30 mm                         | MRU-2       |
| 45 x 45 mm                         | MRU-3       |
| 60 x 45 mm                         | MRU-4       |



ATRIAL RETRACTOR |  
VORHOFGABEL

Expandable\*  
Aufspreizbar\*

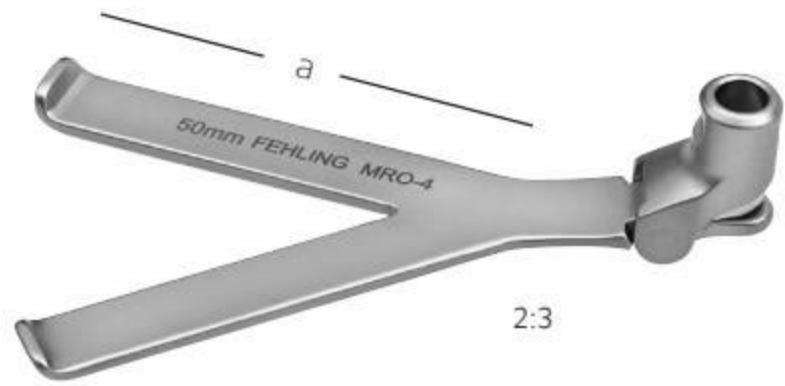
| BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 35 x 25 mm                         | MSN-2       |
| 55 x 30 mm                         | MSN-3       |



\*Cardan screw driver LMT-4 required  
\*Kardanschraubendreher LMT-4 erforderlich

ATRIAL HOOK |  
VORHOFGABEL

| BLADE SIZE<br>BLATTGRÖSSE<br>a | ART. NUMBER |
|--------------------------------|-------------|
| 40 mm                          | MRO-3       |
| 50 mm                          | MRO-4       |
| 60 mm                          | MRO-5       |



TREEDE MAXPOSITION BLADE\* |  
TREEDE MAXPOSITION BLATT\*

Size adjustable  
Größenverstellbar

| LENGTH x WIDTH<br>LÄNGE x BREITE | SPREADING WIDTH<br>SPREIZWEITE | ART. NUMBER |
|----------------------------------|--------------------------------|-------------|
| 44 x 30 mm                       | D 40                           | MMZ-8       |
| 44 x 40 mm                       | D 60                           | MMZ-7       |



\*Cardan screw driver Torx LMT-4T required  
\*Kardanschraubendreher Torx LMT-4T erforderlich



GUIDING CLAMPS FOR THE INSERTION OF  
ATRIAL BLADES / SEPTUM HOLDERS  
FÜHRUNGSZANGEN ZUM EINSpanNEN VON  
VORHOFBLÄTTERN / SEPTUMNIEDERHALTERN



GUIDING CLAMP |  
FÜHRUNGSKLEMME  
MRU-9

2:3

GUIDING FORCEPS |  
FÜHRUNGSZANGE

| LENGTH<br>LÄNGE | ART. NUMBER |
|-----------------|-------------|
| 260 mm          | MRN-7       |



2:3



**REHMAN AORTIC LIFT ANGLE ADJUSTABLE |**  
REHMAN AORTIC LIFT WINKELVERSTELLBAR

| WIDTH<br>BREITE | LENGTH<br>LÄNGE | ART. NUMBER |
|-----------------|-----------------|-------------|
| 25 mm           | 35 mm           | MSN-6       |
| 25 mm           | 45 mm           | MSN-7       |
| 25 mm           | 55 mm           | MSN-4       |
| 25 mm           | 65 mm           | MSN-5       |



**BLADE GUIDE |**  
HAKENFÜHRUNG

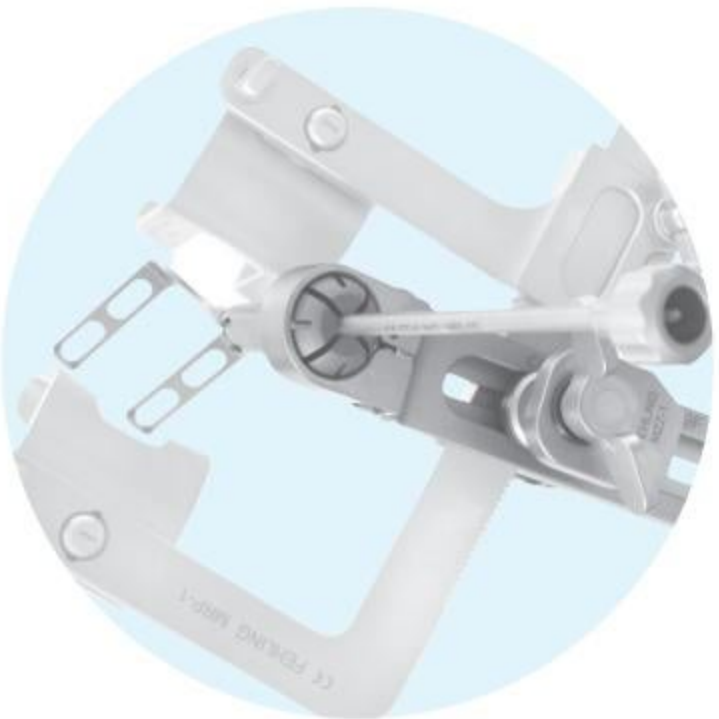
MRN-3  
200 mm



**MIDCAB/OPCAB RETRACTOR ACCESSORIES**  
MIDCAB/OPCAB SPREIZER ZUBEHÖR

**BALL JOINT ADAPTER  
+ CLAMPING ELEMENT |**  
KUGELADAPTER, GERADE  
+ BEFESTIGUNGSELEMENT

MRV-9F  
MZZ-1N



Exemplary configuration  
Konfigurationsbeispiel

**MYOCARDIAL MUSCLE STABILIZER |**  
HERZMUSKELSTABILISATOR

MRR-3V



**BLADE GUIDE |**  
HAKENFÜHRUNG

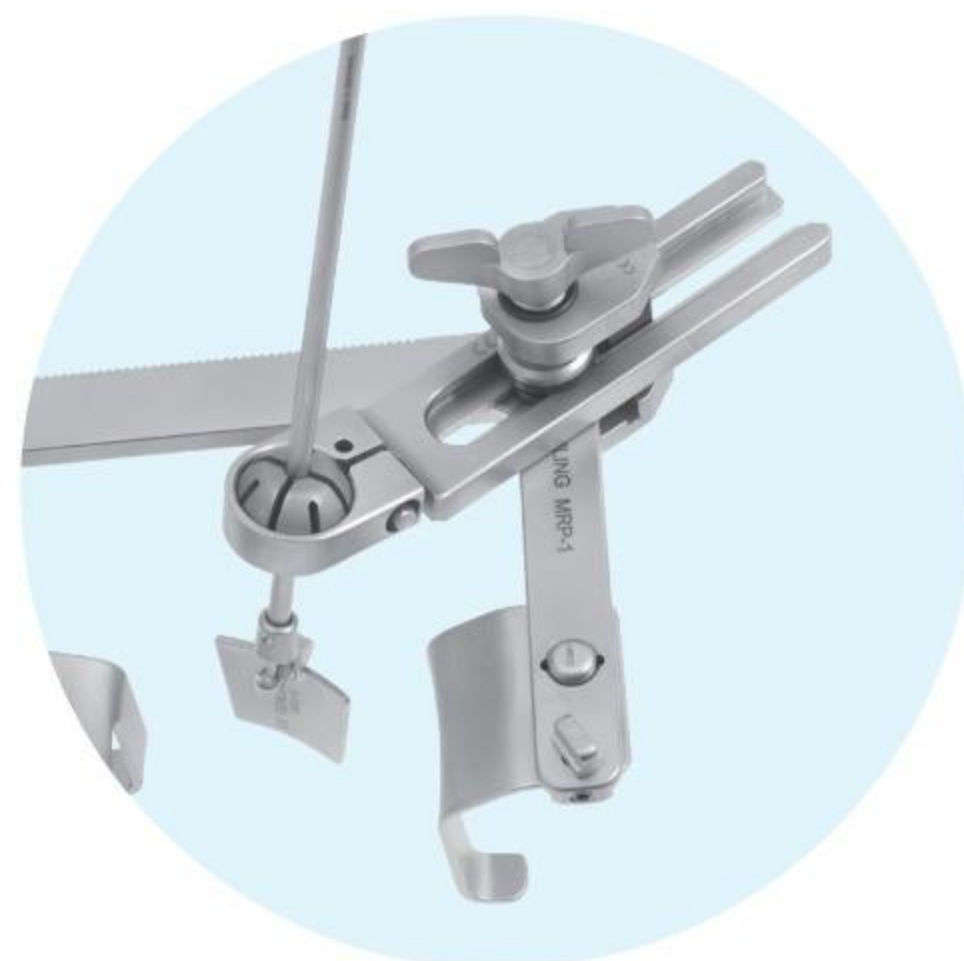
| LENGTH<br>LÄNGE | ART. NUMBER |
|-----------------|-------------|
| 120 mm          | MRI-OS      |
| 200 mm          | MRI-OL      |





**MVR RETRACTOR ACCESSORIES**

MKR SPREIZER ZUBEHÖR

**HOLDING THE SEPTAL FOLD DOWN  
NIEDERHALTEN DER SEPTUMFALTE***Exemplary configuration  
Konfigurationsbeispiel***BALL JOINT ADAPTER  
+ CLAMPING ELEMENT |  
KUGELADAPTER, GERADE  
+ BEFESTIGUNGSELEMENT**MRV-9F  
MZZ-1N

\* Additional suitable adapters and clamping elements *see page 72*  
 \* Weitere passende Adapter und Befestigungselemente *siehe Seite 72*

**RETAINER FOR SEPTAL FOLD  
AND DIAPHRAGM |  
NIEDERHALTER FÜR SEPTUMFALTE  
UND ZWERCHFELL**

MRU-6

*Exemplary configuration  
Konfigurationsbeispiel***BALL ADAPTER |  
KUGELADAPTER**Left / Links  
MRR-5Right / Rechts  
MRR-6

► Inside screw prevents jammed sutures and is space saving; **cardan screwdriver LMT-4** required for tightening.

For adapters with wing screw no screwdriver required.

► Innenliegende Schraube verhindert Einklemmen von Fäden und spart Platz; **Kardan Schraubendreher LMT-4** zum Anziehen erforderlich.

Für Adapter mit Flügelschraube kein Schraubendreher erforderlich.

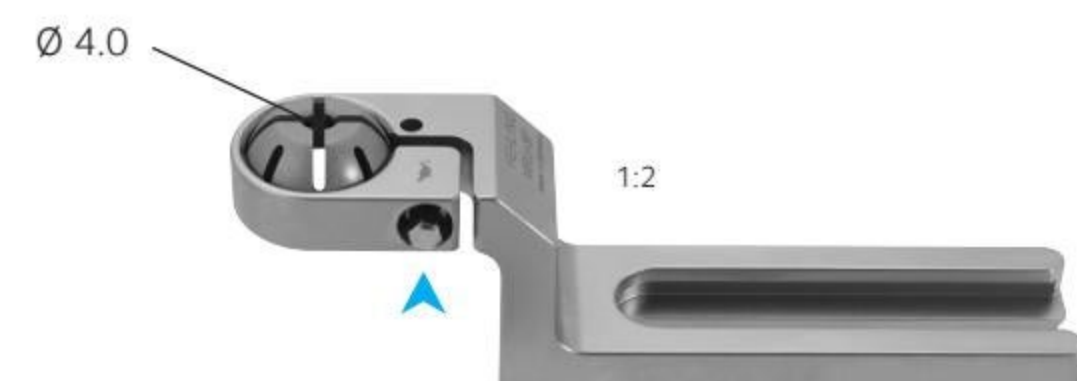


## ADAPTERS ADJUSTABLE IN HEIGHT AND LENGTH

HÖHEN- UND LÄNGENVERSTELLBARE ADAPTER

WITH INSIDE SCREW |  
MIT INNENLIEGENDER SCHRAUBE

MRU-8F

WITH INSIDE SCREW |  
MIT INNENLIEGENDER SCHRAUBE

MRV-0F

WITH JOINT AND WING SCREW |  
MIT GELENK UND FLÜGELSCHRAUBEN

MRV-OR



- ▶ Inside screw prevents jammed sutures and is space saving; **cardan screwdriver LMT-4** required for tightening.

For adapters with wing screw no screwdriver required.

- ▶ Innenliegende Schraube verhindert Einklemmen von Fäden und spart Platz; **Kardan Schraubendreher LMT-4** zum Anziehen erforderlich.

Für Adapter mit Flügelschraube kein Schraubendreher erforderlich.

## ADAPTERS ADJUSTABLE IN HEIGHT AND LENGTH

HÖHEN- UND LÄNGENVERSTELLBARE ADAPTER

WITH INSIDE SCREW |  
MIT INNENLIEGENDER SCHRAUBE

MRV-1F

WITH INSIDE SCREW |  
MIT INNENLIEGENDER SCHRAUBE

MRV-9F



## SUITABLE CLAMPING ELEMENTS

PASSENDE BEFESTIGUNGSELEMENTE

SUITABLE TO RETRACTOR |  
PASSEND ZU SPREIZER

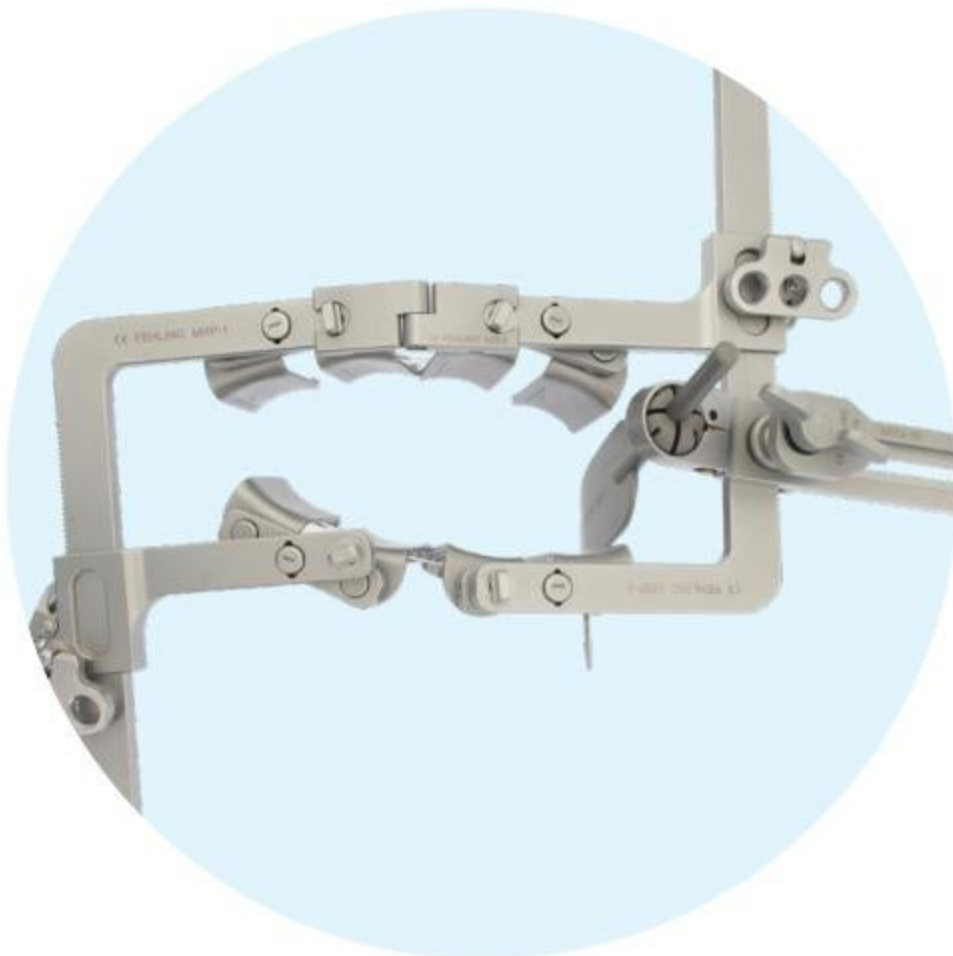
MZZ-1N

Bar height / Balkenhöhe 3.0-13.0





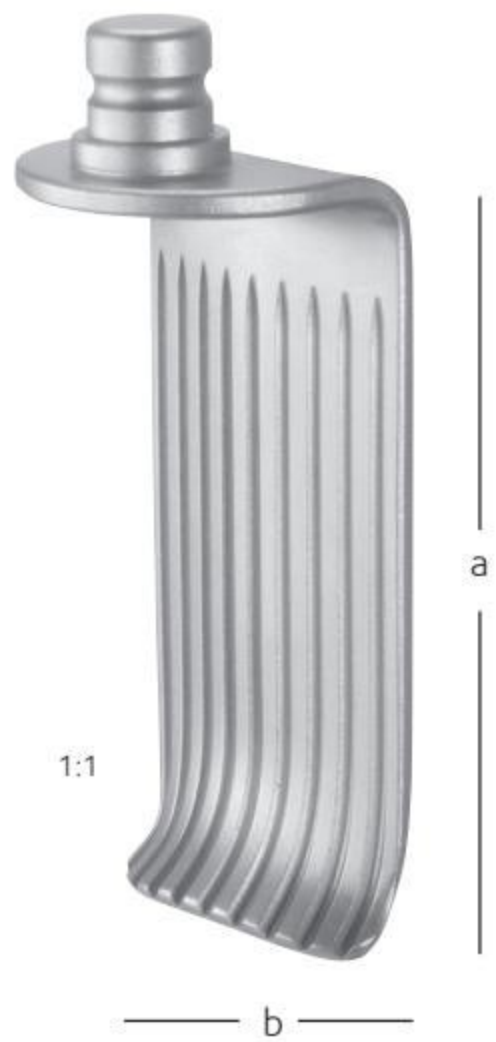
**RETRACTOR FOR MILUTX**  
RETRAKTOR FÜR MILUTX



Exemplary configuration  
Konfigurationsbeispiel

**RETRACTING BLADES\* |**  
HALTEBLÄTTER\*

| DEPTH<br>TIEFE<br>a | WIDTH / BREITE b |        |
|---------------------|------------------|--------|
|                     | 15 mm            | 24 mm  |
| 23 mm               |                  | MRE-4M |
| 33 mm               | MRI-1M           | MRE-5M |
| 43 mm               | MRI-2M           | MRE-6M |
| 53 mm               | MRI-3M           | MRE-7M |
| 63 mm               | MRI-4M           | MRE-8M |
| 73 mm               | MRI-5M           | MRE-9M |
| 83 mm               | MRI-6M           | MRI-8M |
| 93 mm               | MRI-7M           | MRI-9M |



**HINGE CONNECTOR |**  
GELENKVERBINDER

MZI-5



1:1



Exemplary configuration  
Konfigurationsbeispiel

**FANTASMICS CROSS BRACKET**  
**FOR BLADES | FANTASMICS**  
QUERBÜGEL FÜR HALTEBLÄTTER

For minimally invasive surgery  
Für minimalinvasive Chirurgie

| LENGTH<br>LÄNGE | ART. NUMBER |
|-----------------|-------------|
| 35 mm           | MRD-8V      |



1:1

**FANTASMICS CROSS BRACKET**  
**FOR BLADES | FANTASMICS**  
QUERBÜGEL FÜR HALTEBLÄTTER

For minimally invasive surgery  
Für minimalinvasive Chirurgie

| LENGTH<br>LÄNGE | ART. NUMBER |
|-----------------|-------------|
| 60 mm           | MRD-9V      |



1:1





**MINI THORACOTOMY  
RETRACTOR (PEDIATRIC) |  
MINI-THORAKOTOMIESPREIZER  
(PÄDIATRISCH)**

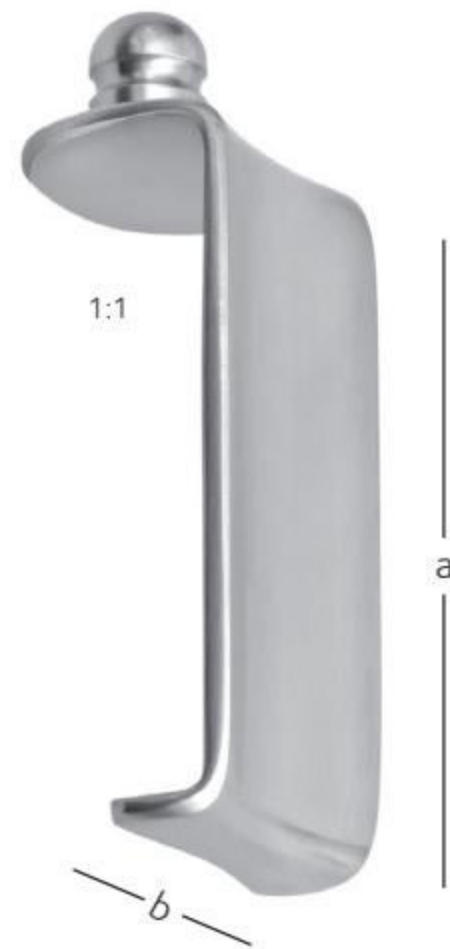
For minimally invasive surgery  
Für minimalinvasive Chirurgie

| LENGTH<br>LÄNGE | ART. NUMBER |
|-----------------|-------------|
| 115 mm          | MSD-5       |

**RETRACTOR |  
WUNDSPREIZER**

70 mm  
Blunt / Stumpf

| HOOK LENGTH<br>HAKENLÄNGE | ART. NUMBER |
|---------------------------|-------------|
| 7 mm                      | ECF-0N      |



**RETRACTING BLADES\* |  
HALTEBLÄTTER\***

| BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 45 x 24 mm                         | MRE-6V      |



**ROUX RETRACTING BLADES\* |  
HALTEBLÄTTER\***

| BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 28 x 38 mm                         | EEV-3       |



ZENKER RETRACTORS |  
ZENKER WUNDHAKEN

275 mm

| BLADE SIZE<br>BLATTGRÖSSE<br>a x b | ART. NUMBER |
|------------------------------------|-------------|
| 75 x 12 mm                         | ECB-6       |



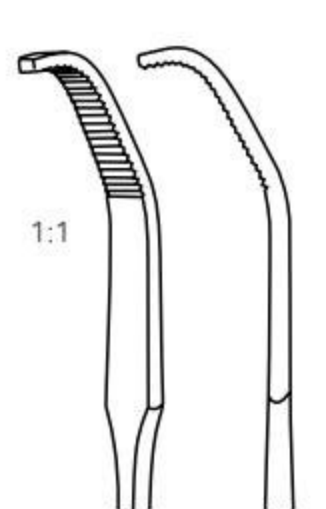
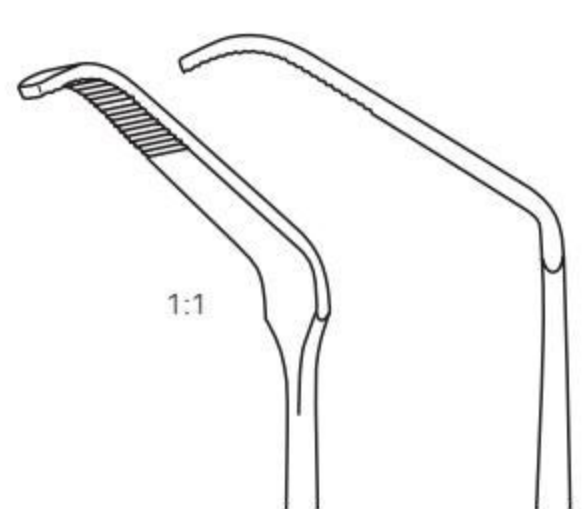
CERAMO® ASD/VSD RETRACTOR |  
CERAMO® HERZDEFEKTHAKEN

|                                                                                     |                                       |             |
|-------------------------------------------------------------------------------------|---------------------------------------|-------------|
|  | BLADE SIZE a x b<br>BLATTGRÖSSE a x b | ART. NUMBER |
|                                                                                     | 3 x 5 mm                              | EOB-7       |

CERAMO® LANGENBECK RETRACTOR |  
CERAMO® LANGENBECK WUNDHAKEN

|                                       |                                                                                     |                                                                                     |                                                                                     |
|---------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                       |  |  |  |
| BLADE SIZE a x b<br>BLATTGRÖSSE a x b | 12 x 5 MM                                                                           | 20 x 6 MM                                                                           | 25 x 6 MM                                                                           |
| ART. NUMBER                           | EOB-1                                                                               | EOB-2                                                                               | EOB-3                                                                               |

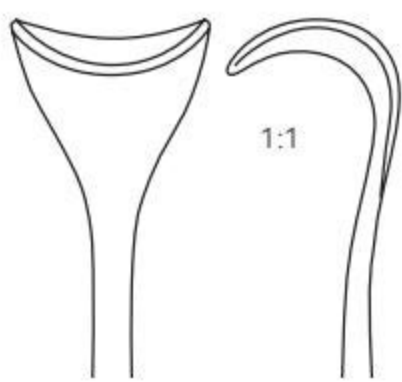
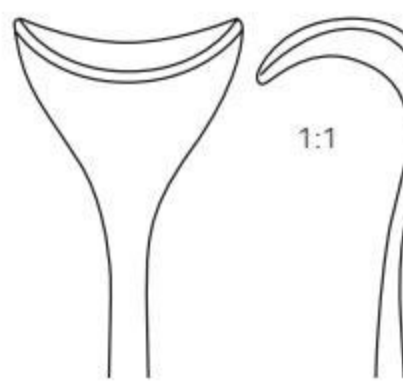
CERAMO® ZENKER RETRACTOR |  
CERAMO® ZENKER WUNDHAKEN

|                                       |                                                                                       |                                                                                       |
|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                       |  |  |
| BLADE SIZE a x b<br>BLATTGRÖSSE a x b | 10 x 3 MM                                                                             | 25 x 3 MM                                                                             |
| ART. NUMBER                           | EOB-5                                                                                 | EOB-6                                                                                 |





CERAMO® MOBERG RETRACTOR |  
CERAMO® MOBERG WUNDHAKEN

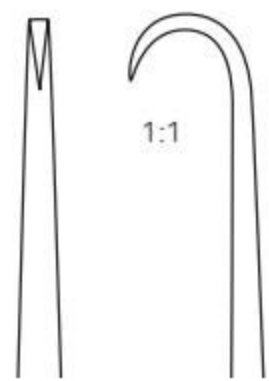
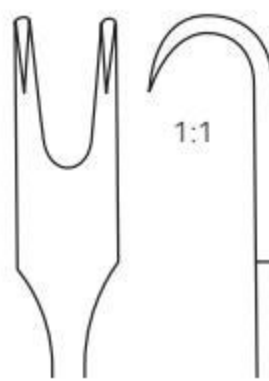
|                                       |                                                                                    |                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| BLADE SIZE a x b<br>BLATTGRÖSSE a x b |  |  |
|                                       | 12 x 14 MM                                                                         | 13 x 16 MM                                                                         |
| ART. NUMBER                           | EOA-8                                                                              | EOA-9                                                                              |

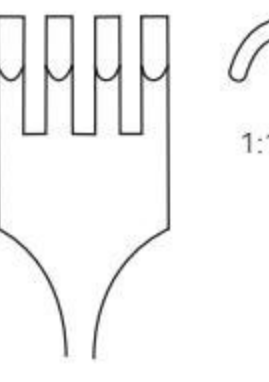
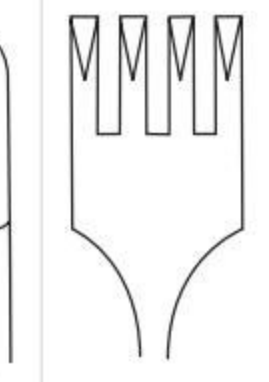


175 mm

CERAMO® MOBERG RETRACTOR |  
CERAMO® MOBERG WUNDHAKEN

Pointed  
Scharf

|                                       |                                                                                     |                                                                                     |
|---------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| BLADE SIZE a x b<br>BLATTGRÖSSE a x b |  |  |
|                                       | a = 7 MM                                                                            | 7 x 7 MM                                                                            |
| ART. NUMBER                           | EOF-1                                                                               | EOA-3                                                                               |

|                                       |                                                                                       |                                                                                       |
|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| BLADE SIZE a x b<br>BLATTGRÖSSE a x b |  |  |
|                                       | 7 x 12 MM                                                                             |                                                                                       |
| ART. NUMBER                           | EOF-3                                                                                 | EOF-4                                                                                 |



SUPERFLEX SOFT TISSUE  
RETRACTOR | SUPERFLEX  
WEICHGEWEBERETRAKTOR

| SIZE<br>GRÖSSE | ART. NUMBER |
|----------------|-------------|
| 200 x 25 mm    | MTI-0       |



STERILISATION AND STORAGE TRAY |  
STERILISIER- UND LAGERSIEB

For MTI-0  
Für MTI-0

| SIZE<br>GRÖSSE       | ART. NUMBER |
|----------------------|-------------|
| 220 x 51,2 x 19,5 mm | MTK-0       |



SOMOHA RETRACTOR |  
SOMOHA SPREIZER

| SPREADING WIDTH<br>SPREIZWEITE | WIDTH<br>BREITE | LENGTH<br>LÄNGE | ART. NUMBER |
|--------------------------------|-----------------|-----------------|-------------|
| D 19-21 mm                     | 14 mm           | 87 mm           | MTJ-1       |
| D 21-23 mm                     | 14 mm           | 93 mm           | MTJ-2       |
| D 23-25 mm                     | 14 mm           | 100 mm          | MTJ-3       |



SOMOHA 2 RETRACTOR |  
SOMOHA 2 SPREIZER

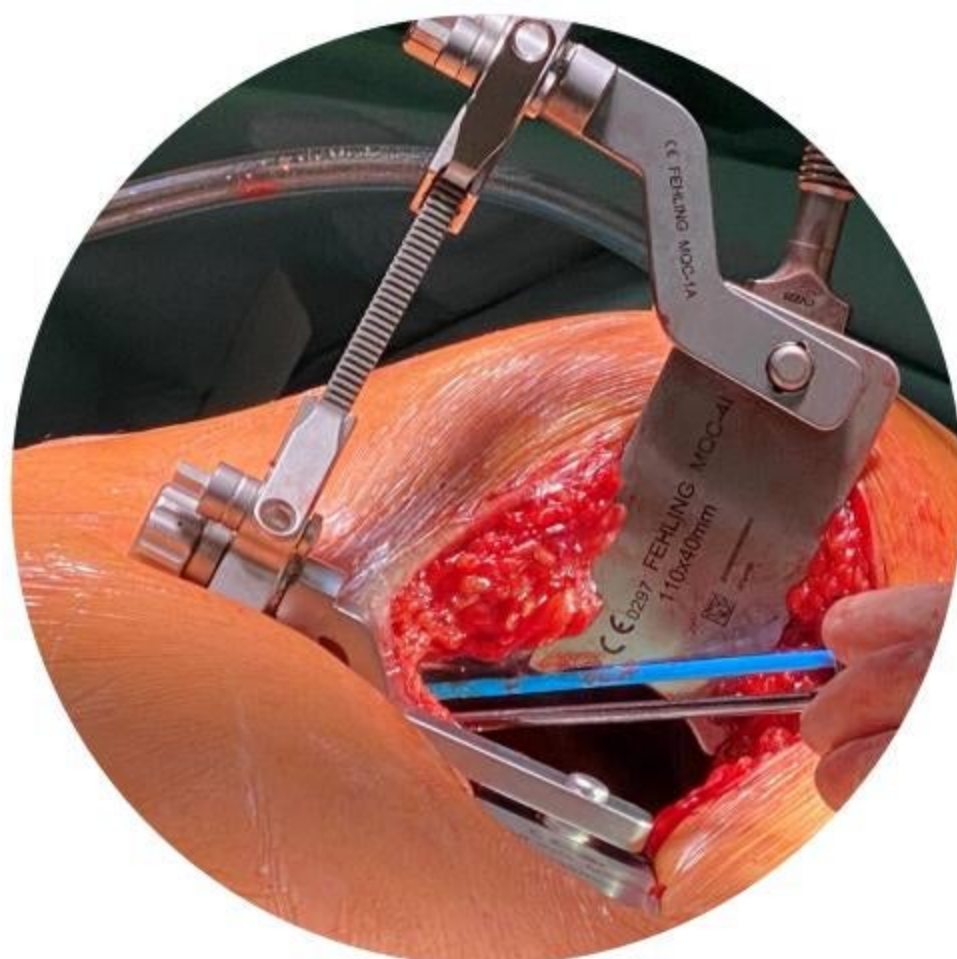
| SPREADING WIDTH<br>SPREIZWEITE | WIDTH<br>BREITE | LENGTH<br>LÄNGE | ART. NUMBER |
|--------------------------------|-----------------|-----------------|-------------|
| D 20-27 mm                     | 14 mm           | 100 mm          | MTJ-4       |
| D 20-27 mm                     | 10 mm           | 100 mm          | MTJ-5       |
| D 20-28 mm                     | 14 mm           | 105 mm          | MTJ-6       |
| D 20-28 mm                     | 10 mm           | 105 mm          | MTJ-7       |
| D 20-30 mm                     | 14 mm           | 111 mm          | MTJ-8       |
| D 20-30 mm                     | 10 mm           | 111 mm          | MTJ-9       |







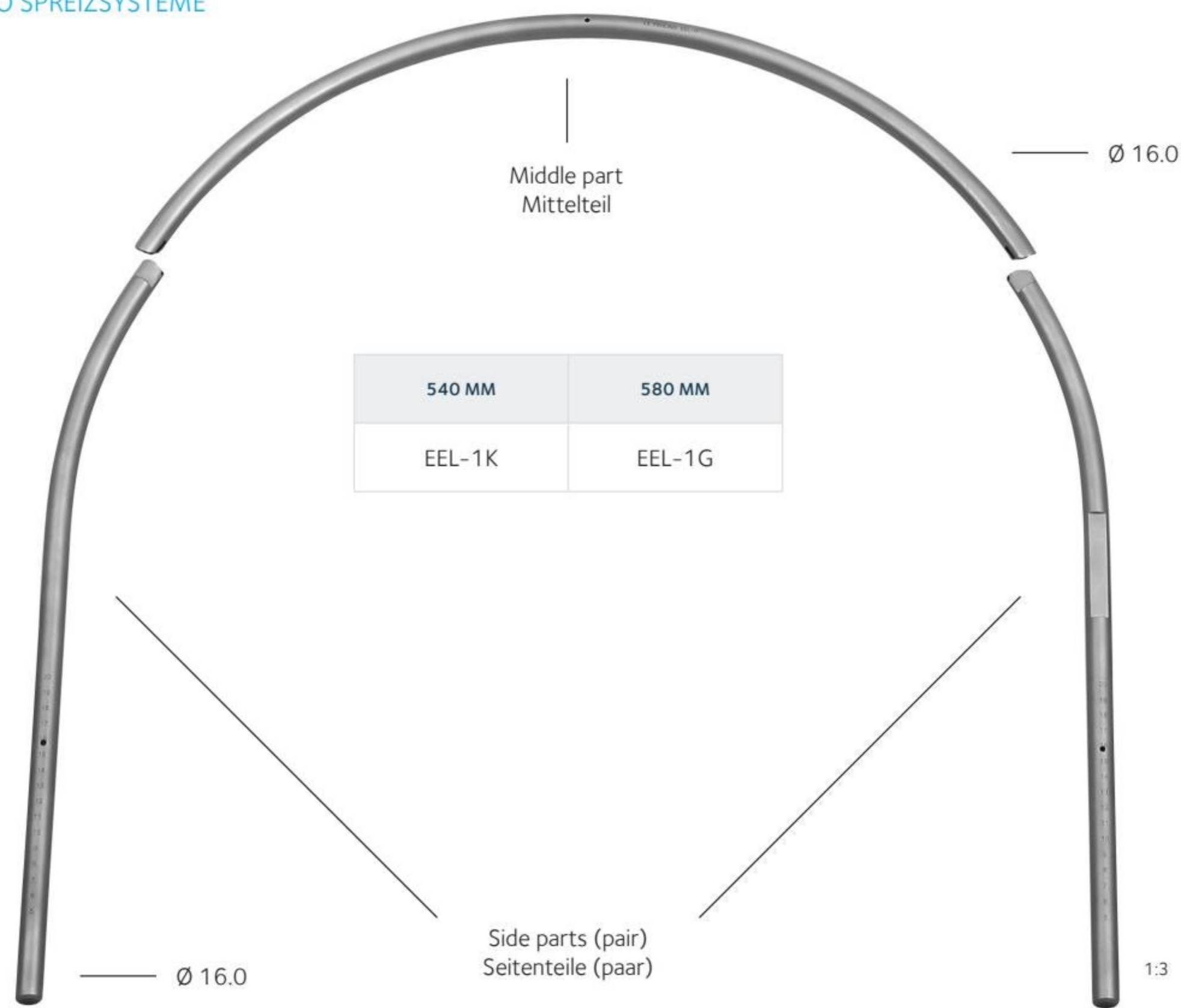
Exemplary configuration  
Konfigurationsbeispiel



Exemplary configuration  
Konfigurationsbeispiel

**THOREXPO RETRACTING SYSTEMS |**  
THOREXPO SPREIZSYSTEME

EEL-1S



**THOREXPO BLADE GUIDE |**  
THOREXPO HAKENFÜHRUNG

| LENGTH | ART. NUMBER |
|--------|-------------|
| 300 mm | EEL-4F      |

**THOREXPO COUPLING RIDER |**  
THOREXPO VERBINDUNGSSCHLITTEN

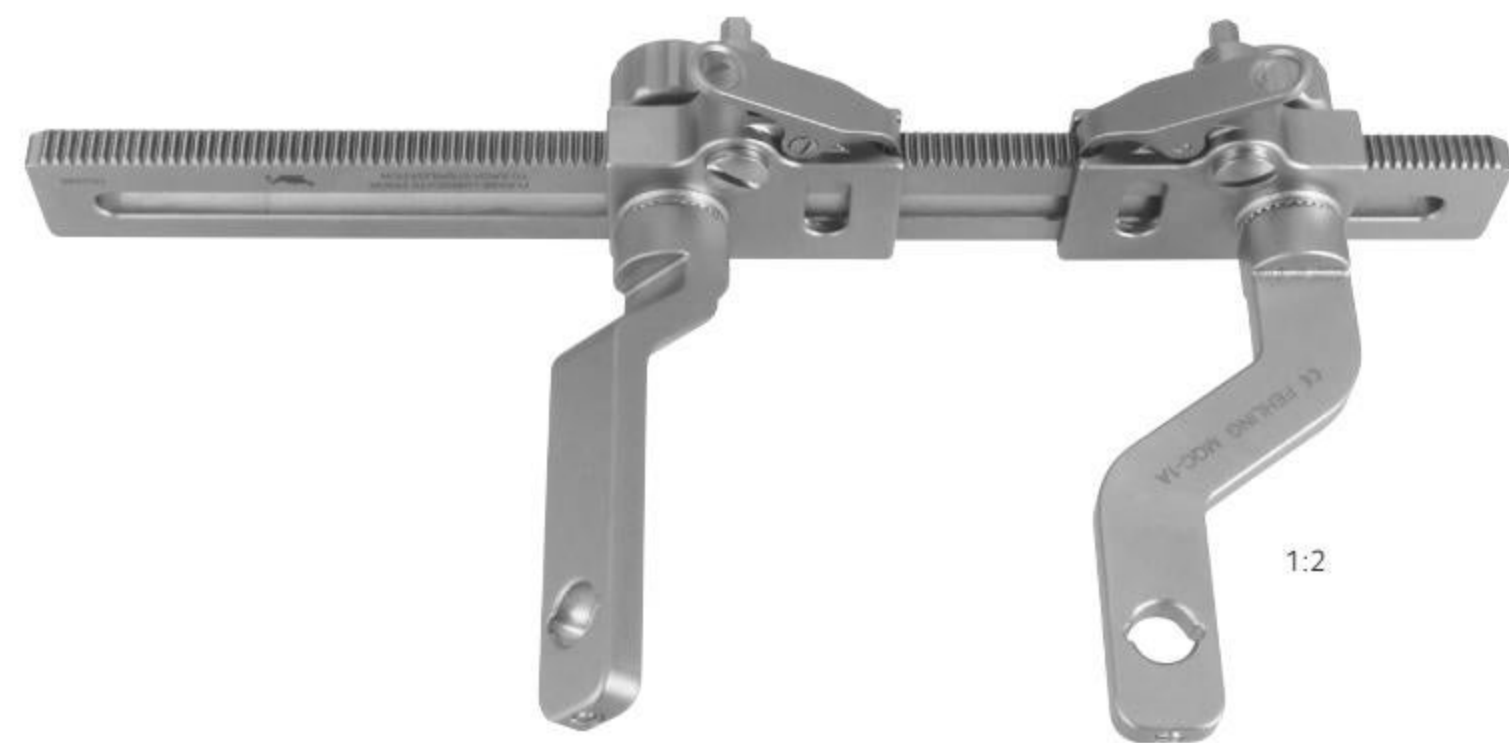
EEP-0





IMA RETRACTOR |  
IMA SPREIZER

MQC-1L  
Complete with two rotatable arms  
Komplett mit zwei drehbaren Armen



IMA BLADE |  
IMA BLATT

| BLADE SIZE<br>BLATTGRÖßE | ART. NUMBER |
|--------------------------|-------------|
| 70 X 40 mm               | MQC-2I      |
| 90 X 40 mm               | MQC-3I      |
| 110 X 40 mm              | MQC-4I      |
| 70 X 30 mm               | MQC-6I      |
| 90 X 30 mm               | MQC-7I      |
| 110 X 30 mm              | MQC-8I      |
| 130 X 30 mm              | MQC-9I      |



XIPHOID BLADE |  
XIHPOID BLATT

| BLADE SIZE<br>BLATTGRÖßE | ART. NUMBER |
|--------------------------|-------------|
| 40 x 30 x 20 mm          | MQE-3I      |
| 40 x 45 x 20 mm          | MQE-2I      |
| 40 x 60 x 20 mm          | MQE-1I      |



IMA COUNTERBLADE |  
IMA GEGENBLATT

| BLADE SIZE<br>BLATTGRÖßE | ART. NUMBER |
|--------------------------|-------------|
| 40 x 35 x 60 mm          | MQF-1       |
| 50 x 35 x 60 mm          | MQF-2       |



CARDAN SCREWDRIVER |  
KARDAN SCHRAUBENDREHER  
LMT-4



CERAMO HEXAGONAL  
WRENCH | CERAMO  
SECHSKANTSCHLÜSSEL  
NVG-9







Exemplary configuration  
Konfigurationsbeispiel



Exemplary configuration  
Konfigurationsbeispiel



ANGULATED ROD |  
WINKELSTAB

| BLADE SIZE<br>BLATTGRÖÖE | ART. NUMBER |
|--------------------------|-------------|
| 16 x 16 x 1000 x 600 mm  | EEJ-2       |

OR-TABLE ADAPTING CLAMP |  
OP-TISCH HALTEKLAUE

EEJ-1  
Angle adjustable (16x16 mm)  
Winkelverstellbar (16x16 mm)



SCHÄFERS AVR-SET  
SCHÄFERS AKR-SET

CALLIPER FOR AORTIC VALVE CUSP |  
LEHRE FÜR AORTENKLAPPENSEGEL

200 mm

|                |                                                                                     |                                                                                     |                                                                                     |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                |  |  |  |
| SIZE<br>GRÖÖSE | LARGE<br>GROSS                                                                      | MEDIUM<br>MITTEL                                                                    | SMALL<br>KLEIN                                                                      |
| ART. NUMBER    | MSS-1V                                                                              | MSS-3                                                                               | MSS-2V                                                                              |



RULER |  
MESSSTAB

MNV-0

160 mm



1:1



**MYOCARDIAL MUSCLE STABILIZER**  
HERZMUSKELSTABILISATOR



Exemplary configuration  
Konfigurationsbeispiel



Exemplary configuration  
Konfigurationsbeispiel

**BLADE GUIDE (Ø8) |**  
HAKENFÜHRUNG (Ø8)

MTI-1  
300 mm



Art. Number: MTI-1

1:2

**MYOCARDIAL MUSCLE STABILIZER |**  
HERZMUSKELSTABILISATOR

MRJ-9V  
90°



1:1

**GUIDING PROBE |**  
FÜHRUNGSSONDE

MTI-2V



1:1

**REQUIRED ACCESSORIES**  
ERFORDERLICHES ZUBEHÖR

**MYOCARDIAL STABILIZER  
WITH BALL JOINT CONNECTOR  
(D7) | HERZMUSKELSTABILISATOR  
MIT KUGELKONNEKTOR KV (D7)**

MRR-3L



2:3

**OR-TABLE ADAPTING CLAMP |**  
OP-TISCHHALTEKLAUE

EEK-1F

Adjustable (Ø16) for MICS endoscope  
holding system  
Winkelverstellbar (Ø16) für MICS En-  
doskophaltesystem



1:4



CALAFIORE STERNAL RETAINER |  
CALAFIORE STERNUMOFFENHALTER

|              |                                                                                   |                                                                                   |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|              |  |  |  |
|              | STERNUM BLADE<br>STERNUMBLATT                                                     |                                                                                   | FLAT WRENCH<br>GABELSCHLÜSSEL                                                      |
|              | LEFT<br>LINKS                                                                     | RIGHT<br>RECHTS                                                                   |                                                                                    |
| NEONATAL     |                                                                                   |                                                                                   | MPA-5<br>25-35 mm<br>Ø 8                                                           |
| PEDIATRIC    |                                                                                   |                                                                                   | MPA-6<br>45-65 mm<br>Ø 12                                                          |
| ADULT        | MPA-3L<br>15-70 mm                                                                | MPA-3R<br>15-70 mm                                                                | MPB-3                                                                              |
| ADIPOPOSIS   | MPA-4L<br>20-100 mm                                                               |                                                                                   |                                                                                    |
| OSTEOPOROSIS | MPB-5L<br>15 x 30 mm                                                              | MPB-5R<br>15 x 30 mm                                                              |                                                                                    |
|              | MPB-6L<br>20 x 30 mm*                                                             | MPB-6R<br>20 x 30 mm                                                              |                                                                                    |



Exemplary configuration  
Konfigurationsbeispiel  
Adult - Adiposis



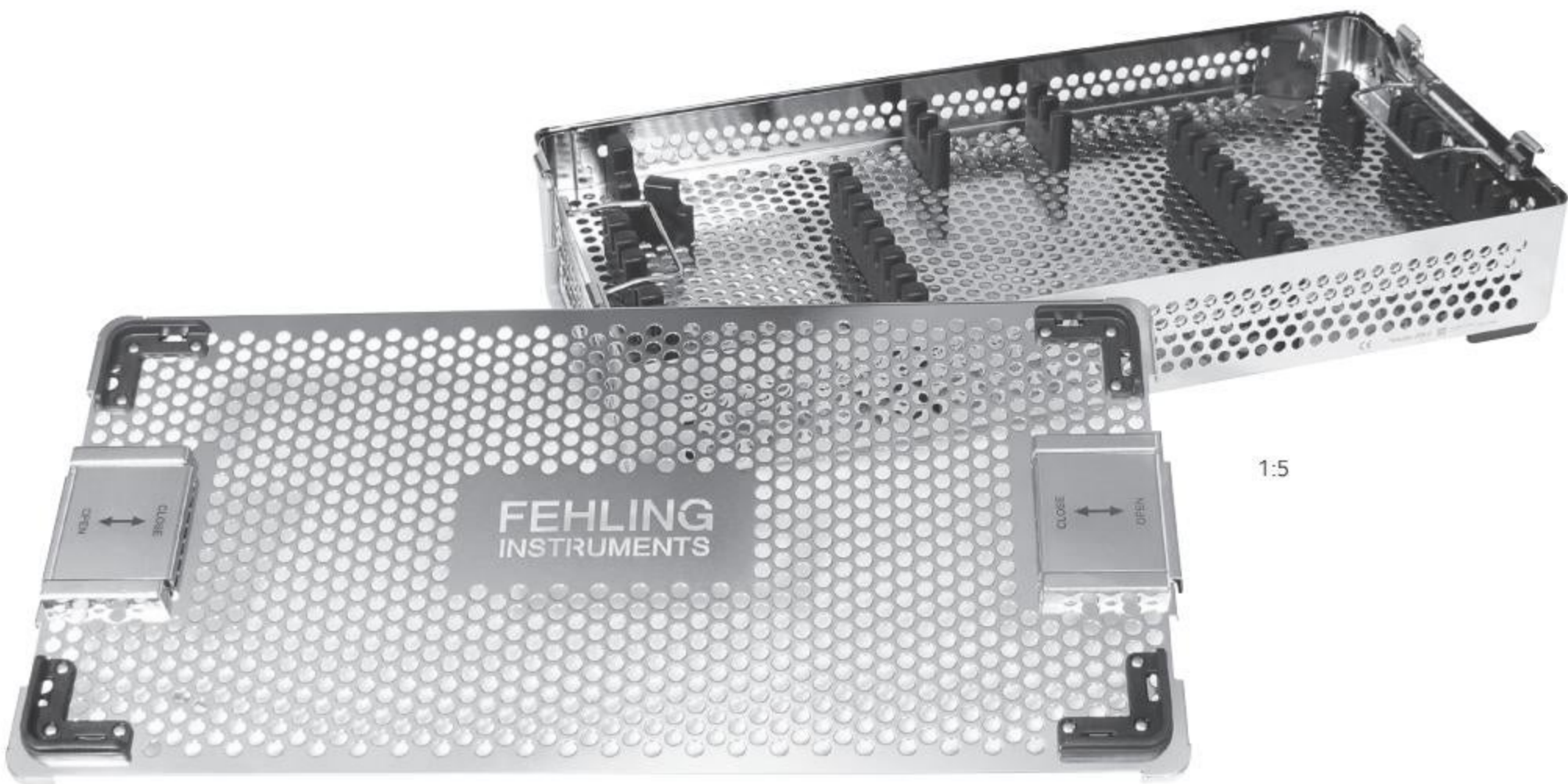
Exemplary configuration  
Konfigurationsbeispiel  
Osteoporosis

STORAGE AND STERILIZATION CONTAINER FOR HCR MICS  
INSTRUMENTS | STORAGE AND STERILIZATION CONTAINER FOR  
HCR MICS INSTRUMENTS

UCE-0 \*  
500x245x90mm  
Configured available (exemplary configuration)  
Konfiguriert verfügbar (Konfigurationsbild)

| CONTAINER SIZES<br>BEHÄLTERGRÖßEN | LENGTH<br>LÄNGE | WIDTH<br>BREITE | HEIGHT<br>HÖHE |
|-----------------------------------|-----------------|-----------------|----------------|
| Nr. 1                             | 400 mm          | 245 mm          | 65 mm          |
| Nr. 2                             |                 |                 | 85 mm          |
| Nr. 3*                            | 500 mm          |                 | 90 mm          |
| Nr. 4                             |                 |                 | 153 mm         |

Storage and sterilization containers can be customized to suit individual requirements. Please contact customer service for assistance.  
Aufbewahrungs- und Sterilisationsbehälter können individuell für den jeweiligen Bedarf konfiguriert werden. Bitte wenden Sie sich hierfür an den Kundenservice.



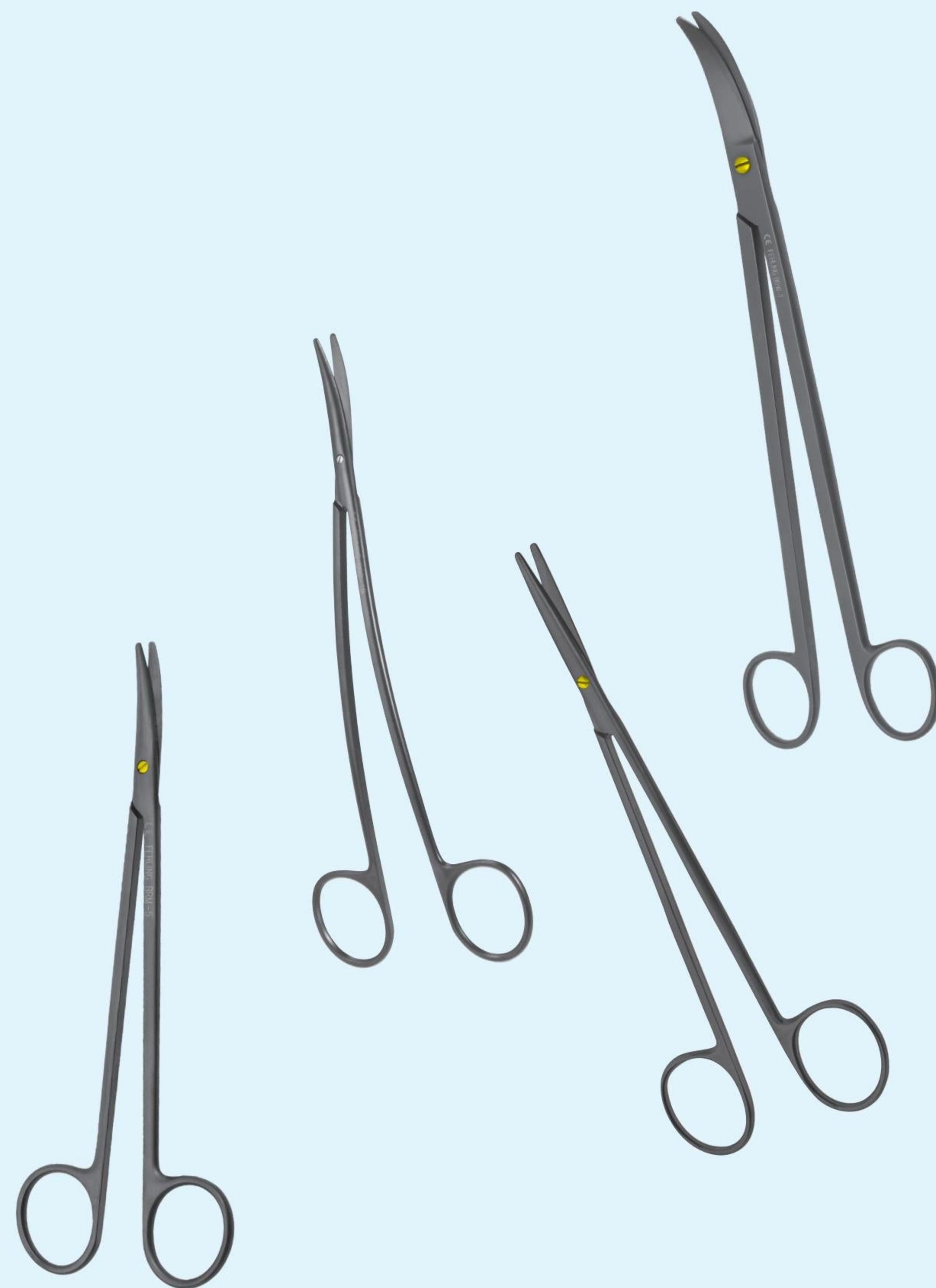
1:5



# SCISSORS

## SCHEREN

- 96 **Dissecting Scissors** | Präparierscheren
- 105 **Vascular Scissors** | Gefäß-Scheren
- 107 **Surgical Scissors** | Chirurgische Scheren
- 110 **Scissors** | Scheren





TOENNIS ADSON DISSECTING SCISSORS |  
TOENNIS ADSON PRÄPARIERSCHEREN

|                                                                                   | LENGTH<br>LÄNGE | CURVED<br>GEBOGEN |       |
|-----------------------------------------------------------------------------------|-----------------|-------------------|-------|
|                                                                                   |                 | CERAMO TC         | TC    |
|  | 180 mm          | BOB-0             | BBJ-8 |



CERAMO® TC TOENNIS DISSECTING SCISSORS |  
CERAMO® TC TOENNIS PRÄPARIERSCHEREN

|                                                                                     | LENGTH<br>LÄNGE | STRONG PATTERN<br>STARKES MODELL |
|-------------------------------------------------------------------------------------|-----------------|----------------------------------|
|                                                                                     |                 | BRM-5                            |
|  | 180 mm          |                                  |



TOENNIS DISSECTING SCISSORS |  
TOENNIS PRÄPARIERSCHEREN

|                                                                                     | LENGTH<br>LÄNGE | CURVED<br>GEBOGEN |
|-------------------------------------------------------------------------------------|-----------------|-------------------|
|                                                                                     |                 | CERAMO TC         |
|  | 180 mm          | BOB-1             |



CERAMO® DELICATE DISSECTING SCISSORS |  
CERAMO® FEIN PRÄPARIERSCHEREN

S-shape handle  
S-Form Griff

|                                                                                       | LENGTH<br>LÄNGE | S-SHAPE HANDLE<br>S-FORM GRIFF |
|---------------------------------------------------------------------------------------|-----------------|--------------------------------|
|                                                                                       |                 | BOB-1B                         |
|  | 180 mm          |                                |



MAYO DISSECTING SCISSORS |  
MAYO PRÄPARIERSCHEREN

|                                                                                          |                                                                                          |  |                                                                                          |  |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------|--|
| <br>1:1 | <br>1:1 |  | <br>1:1 |  |
|                                                                                          | CURVED<br>GEBOGEN                                                                        |  | STRAIGHT<br>GERADE                                                                       |  |
|                                                                                          | CERAMO TC                                                                                |  | CERAMO TC                                                                                |  |
| LENGTH<br>LÄNGE                                                                          |                                                                                          |  |                                                                                          |  |
| 170 mm                                                                                   | BOA-3                                                                                    |  | BOA-4                                                                                    |  |
| 230 mm                                                                                   | BOA-5                                                                                    |  | BOA-6                                                                                    |  |



MAYO-STILLE DISSECTING SCISSORS |  
MAYO-STILLE PRÄPARIERSCHEREN

|                                                                                            |                                                                                            |       |                                                                                            |  |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|--|
| <br>1:1 | <br>1:1 |       | <br>1:1 |  |
|                                                                                            | CURVED<br>GEBOGEN                                                                          |       | STRAIGHT<br>GERADE                                                                         |  |
|                                                                                            | CERAMO TC                                                                                  | TC    | CERAMO TC                                                                                  |  |
| LENGTH<br>LÄNGE                                                                            |                                                                                            |       |                                                                                            |  |
| 170 mm                                                                                     | BOA-7                                                                                      | BBC-9 | BOA-8                                                                                      |  |



METZENBAUM STANDARD DISSECTING SCISSORS |  
METZENBAUM STANDARD PRÄPARIERSCHEREN

|                                                                                            |                   |       |
|--------------------------------------------------------------------------------------------|-------------------|-------|
| <br>1:1 | CURVED<br>GEBOGEN |       |
|                                                                                            | CERAMO TC         | TC    |
|                                                                                            | LENGTH<br>LÄNGE   |       |
| 145 mm                                                                                     | BOE-1             | BBD-3 |
| 180 mm                                                                                     | BOE-2             | BBD-6 |
| 200 mm                                                                                     | BOE-3             | BBD-7 |
| 230 mm                                                                                     | BOE-4             | BBD-8 |
| 260 mm                                                                                     | BOE-5             | BBD-9 |



METZENBAUM FINO DISSECTING SCISSORS |  
METZENBAUM FINO PRÄPARIERSCHEREN

|                                                                                             |                                                                                             |                                                                                             |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <br>1:1 | <br>1:1 | <br>1:1 |
| <div>LENGTH<br/>LÄNGE</div>                                                                 | BLUNT / STUMPF                                                                              |                                                                                             |
|                                                                                             | CURVED* / GEBOGEN*                                                                          |                                                                                             |
|                                                                                             | CERAMO TC                                                                                   | TC                                                                                          |
|                                                                                             | STRAIGHT / GERADE                                                                           |                                                                                             |
|                                                                                             | CERAMO TC                                                                                   |                                                                                             |
| 145 mm                                                                                      | BOC-1                                                                                       |                                                                                             |
| 180 mm                                                                                      | BOC-2                                                                                       | BBF-2                                                                                       |
| 200 mm                                                                                      | BOC-3                                                                                       | BBF-3                                                                                       |
| 230 mm                                                                                      | BOC-4                                                                                       | BBF-4                                                                                       |
| 280 mm                                                                                      | BOC-6                                                                                       |                                                                                             |



\* Also available with serrated blades  
\* Auch mit Wellenschliff erhältlich



METZENBAUM FINO DISSECTING SCISSORS |  
METZENBAUM FINO PRÄPARIERSCHEREN

|  | LENGTH<br>LÄNGE | POINTED / SPITZ   |                    |
|-----------------------------------------------------------------------------------|-----------------|-------------------|--------------------|
|                                                                                   |                 | CURVED<br>GEBOGEN | STRAIGHT<br>GERADE |
|                                                                                   |                 | CERAMO TC         | CERAMO TC          |
|                                                                                   | 145 mm          | BOO-0             | BOF-0              |
|                                                                                   | 180 mm          | BOO-1             |                    |
|                                                                                   | 230 mm          | BOO-3             |                    |



METZENBAUM FINO DISSECTING SCISSORS |  
METZENBAUM FINO PRÄPARIERSCHEREN

S-shape handle  
S-Form Griff

|  | LENGTH<br>LÄNGE | BLUNT<br>STUMPF |
|-------------------------------------------------------------------------------------|-----------------|-----------------|
|                                                                                     |                 | CERAMO TC       |
|                                                                                     |                 |                 |
|                                                                                     | 145 mm          | BOD-5           |
|                                                                                     | 180 mm          | BOD-6           |
|                                                                                     | 200 mm          | BOD-7           |
|                                                                                     | 230 mm          | BOD-8           |



LEXER FINO DISSECTING SCISSORS |  
LEXER FINO PRÄPARIERSCHEREN

|  | LENGTH<br>LÄNGE | CURVED<br>GEBOGEN |
|-------------------------------------------------------------------------------------|-----------------|-------------------|
|                                                                                     |                 | CERAMO TC         |
|                                                                                     |                 |                   |
|                                                                                     | 160 mm          | BOB-3             |
|                                                                                     | 210 mm          | BOB-4             |



CERAMO® THOREK DISSECTING SCISSORS |  
CERAMO® THOREK PRÄPARIERSCHEREN

|  | LENGTH<br>LÄNGE | CURVED *<br>GEBOGEN * |
|---------------------------------------------------------------------------------------|-----------------|-----------------------|
|                                                                                       |                 |                       |
|                                                                                       |                 |                       |
|                                                                                       | 200 mm          | BOV-1W                |
|                                                                                       | 230 mm          | BOV-2W                |

\*Also available with serrated blades  
\*Auch mit Wellenschliff erhältlich





CERAMO® THOREK DISSECTING SCISSORS | CERAMO® THOREK PRÄPARIERSCHEREN

S-shape handle  
S-Form Griff



| LENGTH<br>LÄNGE | CURVED<br>GEBOGEN |
|-----------------|-------------------|
| 230 mm          | BOV-5W            |
| 280 mm          | BOV-6W            |



CERAMO® TC DELICATE BLUNT DISSECTING SCISSORS | CERAMO® FEIN STUMPF PRÄPARIERSCHEREN



| LENGTH<br>LÄNGE | CURVED<br>GEBOGEN |
|-----------------|-------------------|
| 115 mm          | BON-1             |



DELICATE POINTED DISSECTING SCISSORS | FEIN SPITZ PRÄPARIERSCHEREN

|                                                                                     |                                                                                     |  |                                                                                     |       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|-------|
|  |  |  |  |       |
|                                                                                     | CURVED<br>GEBOGEN                                                                   |  | STRAIGHT<br>GERADE                                                                  |       |
| LENGTH<br>LÄNGE                                                                     | CERAMO TC                                                                           |  | CERAMO TC                                                                           | TC    |
| 115 mm                                                                              | BON-3                                                                               |  | BON-4                                                                               | BBA-8 |
| 145 mm                                                                              |                                                                                     |  | BON-6                                                                               |       |
| 180 mm                                                                              |                                                                                     |  | BOT-6                                                                               |       |



CERAMO® TC RAGNELL DISSECTING SCISSORS | CERAMO® TC RAGNELL PRÄPARIERSCHEREN



| LENGTH<br>LÄNGE | CURVED<br>GEBOGEN |
|-----------------|-------------------|
| 125 mm          | BOT-3             |
| 150 mm          | BOT-4             |





CERAMO® TC STEVENS DISSECTING SCISSORS |  
CERAMO® TC STEVENS PRÄPARIERSCHEREN

|                 |                                                                                   |                                                                                   |
|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| LENGTH<br>LÄNGE |  |  |
|                 | CURVED<br>GEBOGEN                                                                 | STRAIGHT<br>GERADE                                                                |
| 110 mm          | BOS-5                                                                             |                                                                                   |
| 125 mm          | BOS-7                                                                             |                                                                                   |
| 150 mm          | BOT-1                                                                             | BOT-8                                                                             |



CERAMO® TC REYNOLDS DISSECTING SCISSORS |  
CERAMO® TC REYNOLDS PRÄPARIERSCHEREN

|                 |                                                                                     |
|-----------------|-------------------------------------------------------------------------------------|
| LENGTH<br>LÄNGE |  |
|                 | ART. NUMBER                                                                         |
| 175 mm          | BOT-2                                                                               |



POTTS VASCULAR SCISSORS |  
POTTS GEFÄSS-SCHEREN

|                                                                                     |                 |           |       |
|-------------------------------------------------------------------------------------|-----------------|-----------|-------|
|  | LENGTH<br>LÄNGE | CERAMO TC | TC    |
|                                                                                     | 190 mm          | BOP-2     |       |
|  | 230 mm          | BOP-5     |       |
|                                                                                     | 185 mm          | BOP-3     | BCJ-6 |
|                                                                                     | 225 mm          | BOP-6     |       |



DE BAKEY VASCULAR SCISSORS |  
DE BAKEY GEFÄSS-SCHEREN

|                                                                                       |                 |           |
|---------------------------------------------------------------------------------------|-----------------|-----------|
|  | LENGTH<br>LÄNGE | CERAMO TC |
|                                                                                       | 190 mm          | BOM-5     |
|  | 230 mm          | BOM-8     |
|                                                                                       | 185 mm          | BOM-6     |





CERAMO® TC HYPERION VASCULAR SCISSORS |  
CERAMO® TC HYPERION GEFÄSS-SCHEREN

|                                                                                                 |        | BLADE LENGTH<br>BLATTLÄNGE                                                                     |                                                                                                |
|-------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|                                                                                                 |        |  1:1<br>10 mm |  1:1<br>14 mm |
| LENGTH<br>LÄNGE                                                                                 |        |                                                                                                |                                                                                                |
|  1:1<br>25°    | 180 mm | BOP-7                                                                                          | BOR-1                                                                                          |
|  1:1<br>45°   | 180 mm | BOR-7                                                                                          | BOR-2                                                                                          |
|  1:1<br>60°  | 175 mm | BOP-8                                                                                          | BOR-3                                                                                          |
|  1:1<br>90°  | 170 mm | BOR-8                                                                                          | BOR-4                                                                                          |
|  1:1<br>125° | 170 mm | BOP-9                                                                                          | BOR-5                                                                                          |



STANDARD SURGICAL SCISSORS |  
STANDARD CHIRURGISCHE SCHEREN

|  1:1 | LENGTH<br>LÄNGE | STRAIGHT<br>GERADE |
|-----------------------------------------------------------------------------------------|-----------------|--------------------|
|                                                                                         |                 | CERAMO             |
|                                                                                         | 145 mm          | BOJ-3              |
|                                                                                         | 165 mm          | BOJ-4              |
|                                                                                         | 185 mm          | BOJ-5              |



DOYEN SURGICAL SCISSORS |  
DOYEN CHIRURGISCHE SCHEREN

|  1:1 | STRAIGHT<br>GERADE |
|-------------------------------------------------------------------------------------------|--------------------|
|                                                                                           | UNCOATED           |
|                                                                                           | 180 mm<br>BAJ-5    |





TC SIMS SURGICAL SCISSORS |  
TC SIMS CHIRURGISCHE SCHEREN

|                                                                                   |                 |                   |
|-----------------------------------------------------------------------------------|-----------------|-------------------|
|  | LENGTH<br>LÄNGE | CURVED<br>GEBOGEN |
|                                                                                   |                 | CERAMO            |
|  | 200 mm          | BOL-4             |
|                                                                                   | 230 mm          | BOL-5             |



WERTHEIM SURGICAL SCISSORS |  
WERTHEIM CHIRURGISCHE SCHEREN

|                                                                                     |                 |                   |
|-------------------------------------------------------------------------------------|-----------------|-------------------|
|  | LENGTH<br>LÄNGE | CURVED<br>GEBOGEN |
|                                                                                     |                 | CERAMO TC         |
|  | 230 mm          | BOL-6             |

LIGATUR SURGICAL SCISSORS |  
LIGATUR CHIRURGISCHE SCHEREN

1 blade serrated  
1 Blatt gezahnt

|                                                                                      |                 |                   |
|--------------------------------------------------------------------------------------|-----------------|-------------------|
|  | LENGTH<br>LÄNGE | CURVED<br>GEBOGEN |
|                                                                                      |                 | CERAMO TC         |
|  | 180 mm          | BOZ-2             |





CERAMO® PARAMETRIUM SCISSORS |  
CERAMO® PARAMETRIUM SCHEREN



1:1

|                 |                   |
|-----------------|-------------------|
| LENGTH<br>LÄNGE | CURVED<br>GEBOGEN |
| 215 mm          | BOW-9             |



MITHOS SCISSORS |  
MITHOS SCHEREN

Closed/open  
Geschl./offen  
10 mm/12 mm



1:2

|        |
|--------|
| 360 MM |
| MTF-1  |



MITHOS SCISSORS DOUBLE  
ACTION | MITHOS SCHEREN  
BEIDSEITIG ÖFFNEND

Closed/open (max.)  
Geschl./offen (max.)  
11 mm/30 mm



1:2

|        |
|--------|
| 360 MM |
| MTF-6  |

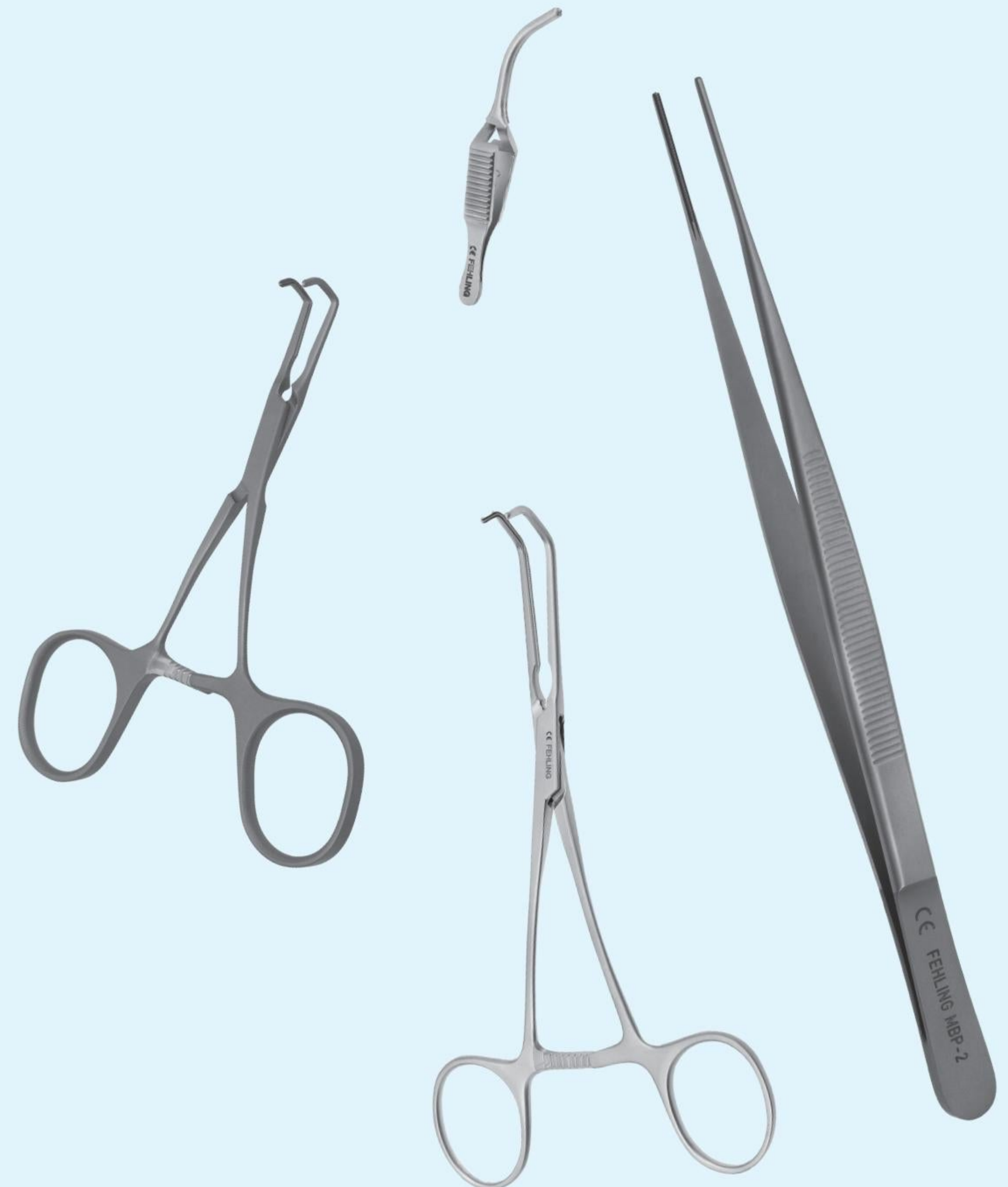




# FORCEPS, CLAMPS AND CLIPS

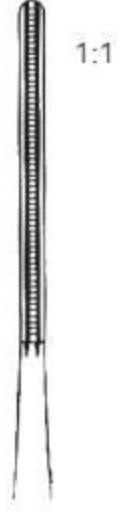
## PINZETTEN, KLEMMEN UND CLIPS

- 114 **Non-Traumatic Forceps** | Atraumatische Pinzetten
- 119 **Dissecting Forceps** | Anatomische Pinzetten
- 122 **Tissue Forceps** | Chirurgische Pinzetten
- 124 **Chordae Clip** | Chordae Clip
- 125 **Bulldog Clamps** | Bulldogklemmen
- 134 **Non-Traumatic Pediatric Forceps** | Atraumatische pädiatrische Klemmen
- 144 **Non-Traumatic Clamps** | Atraumatische Klemmen
- 158 **Loop Clamps** | Umführungsklemme
- 159 **Dissecting Clamps** | Präparierklemmen
- 170 **Organ Grasping Forceps** | Organfasszangen
- 172 **Sponge and Dressing Forceps** | Korn- und Tupferzangen
- 173 **Tubing Clamps** | Schlauchklemmen
- 174 **Towel Clamps** | Tuchklemmen
- 176 **Thoracic Clamps** | Thoraxklemmen





DE BAKEY NON-TRAUMATIC FORCEPS |  
DE BAKEY ATRAUMATISCHE PINZETTEN

|        |                                                                                           |                                                                                           |                                                                                           |                                                                                           |
|--------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|        | <br>1:1 | <br>1:1 | <br>1:1 | <br>1:1 |
|        | 1.5 mm                                                                                    | 2.0 mm                                                                                    | 2.8 mm                                                                                    | 3.5 mm                                                                                    |
| 150 mm | MBL-2                                                                                     | MBL-5                                                                                     | MBK-2                                                                                     |                                                                                           |
| 195 mm | MBL-3                                                                                     | MBL-6                                                                                     | MBK-3                                                                                     | MBM-5                                                                                     |
| 240 mm | MBL-4                                                                                     | MBL-7                                                                                     | MBK-4                                                                                     | MBM-6                                                                                     |
| 300 mm |                                                                                           |                                                                                           | MBL-8                                                                                     | MBM-7                                                                                     |



2:3

DE BAKEY NON-TRAUMATIC FORCEPS |  
DE BAKEY ATRAUMATISCHE PINZETTEN

|        |                                                                                            |
|--------|--------------------------------------------------------------------------------------------|
|        | <br>1:1 |
|        | 2.0 mm                                                                                     |
| 195 mm | MBM-1                                                                                      |
| 240 mm | MBM-2                                                                                      |



2:3

TC DE BAKEY NON-TRAUMATIC FORCEPS |  
TC DE BAKEY ATRAUMATISCHE PINZETTEN

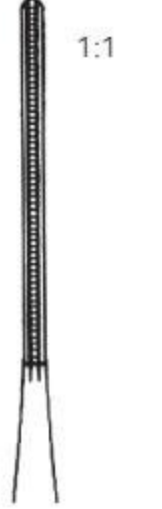
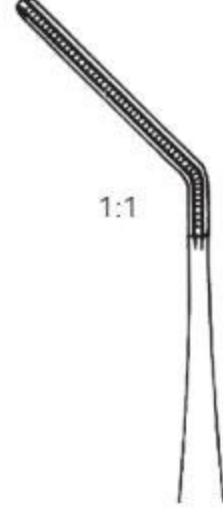
|        |                                                                                              |                                                                                              |                                                                                              |                                                                                              |
|--------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|        | <br>1:1 | <br>1:1 | <br>1:1 | <br>1:1 |
|        | 1.5 mm                                                                                       | 2.0 mm                                                                                       | 2.7 mm                                                                                       | 3.5 mm                                                                                       |
| 195 mm | MDZ-1                                                                                        | MEJ-5                                                                                        | MEJ-8                                                                                        | MEK-1                                                                                        |
| 240 mm | MEJ-3                                                                                        | MEJ-6                                                                                        | MEJ-9                                                                                        | MEK-2                                                                                        |



1:2



DE BAKEY DIETHRICH NON-TRAUMATIC FORCEPS |  
DE BAKEY DIETHRICH ATRAUMATISCHE PINZETTEN

|        |                                                                                   |                                                                                   |
|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|        |  |  |
|        | 1.5 mm                                                                            | 1.5 mm                                                                            |
| 195 mm | MBK-8                                                                             | MBL-1                                                                             |
| 240 mm | MBK-9                                                                             |                                                                                   |



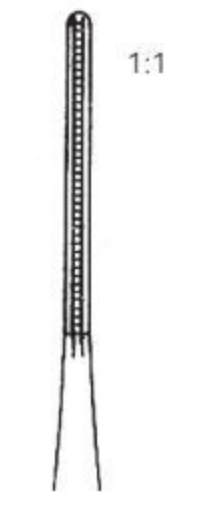
DE BAKEY ULTRA LIGHT NON-TRAUMATIC FORCEPS |  
DE BAKEY ULTRA LIGHT ATRAUMATISCHE PINZETTEN

|        |                                                                                     |
|--------|-------------------------------------------------------------------------------------|
|        |  |
|        | 1.0 mm                                                                              |
| 195 mm | CDK-7                                                                               |

T Titanium Titan

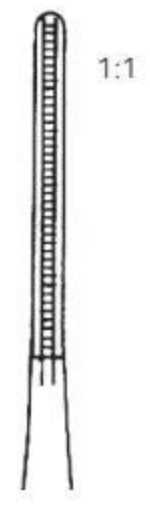
\* Titanium instruments are highlighted with a light blue color

T DIETHRICH NON-TRAUMATIC FORCEPS |  
DIETHRICH ATRAUMATISCHE PINZETTEN

|        |                                                                                     |                                                                                     |
|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|        |  |  |
|        | 1.5 mm                                                                              | 1.8 mm                                                                              |
| 150 mm | MBP-1                                                                               | MED-3                                                                               |
| 195 mm | MBP-2                                                                               |                                                                                     |



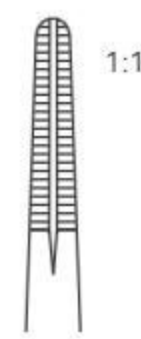
T DIETHRICH NON-TRAUMATIC FORCEPS |  
DIETHRICH ATRAUMATISCHE PINZETTEN

|        |                                                                                       |
|--------|---------------------------------------------------------------------------------------|
|        |  |
|        | 2.0 mm                                                                                |
| 195 mm | MFG-9                                                                                 |
| 240 mm | MFH-1                                                                                 |





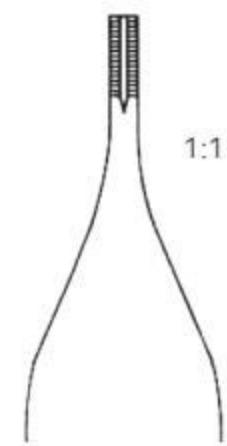
HEART VALVE FORCEPS |  
HERZKLAPPENPINZETTE

|        |                                                                                   |                                                                                   |
|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|        |  |  |
|        | 2.5 MM                                                                            | 3.0 MM                                                                            |
| 200 mm | CDP-5                                                                             |                                                                                   |
| 230 mm | CDP-2                                                                             | CDP-7                                                                             |
| 250 mm | CDP-3                                                                             |                                                                                   |



ADSON-BRAUN NON-TRAUMATIC FORCEPS |  
ADSON-BRAUN ATRAUMATISCHE PINZETTEN



|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
|                        |  |
|                        | 120 MM                                                                              |
| CERAMO®                | COX-0                                                                               |
| UNCOATED UNBESCHICHTET | CAK-9                                                                               |

JEWELLER FORCEPS |  
UHRMACHERPINZETTEN

|                        |                                                                                     |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                        |  |  |
|                        | 0.1 MM                                                                              | 0.4 MM                                                                              |
| UNCOATED UNBESCHICHTET |                                                                                     |                                                                                     |
| 110 mm                 | CAY-7                                                                               | CAY-9                                                                               |



GERALD DISSECTING FORCEPS |  
GERALD ANATOMISCHE PINZETTEN

|        |                                                                                       |                                                                                       |
|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|        |  |  |
|        | CERAMO® TCM 1.0 MM                                                                    | UNCOATED UNBESCHICHTET 1.0 MM                                                         |
| 180 mm | COK-1                                                                                 | CAE-8                                                                                 |
| 210 mm | COK-2                                                                                 | CAF-0                                                                                 |
| 230 mm | COK-3                                                                                 |                                                                                       |





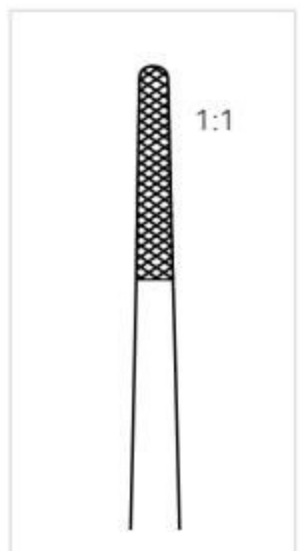
MICRO ADSON DISSECTING FORCEPS |  
MIKRO ADSON ANATOMISCHE PINZETTEN

|                                                                                   |        |
|-----------------------------------------------------------------------------------|--------|
|  |        |
| UNCOATED<br>UNBESCHICHTET                                                         | 0.8 mm |
| 120 mm                                                                            | CAA-5  |



2:3

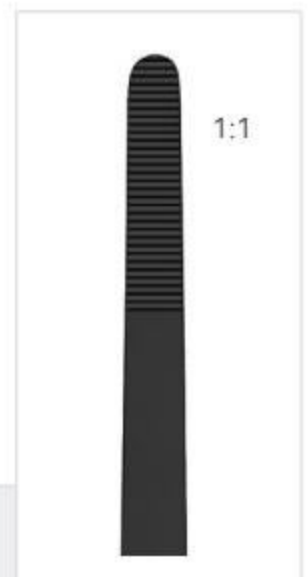
TC POTTS-SMITH DISSECTING FORCEPS |  
TC POTTS-SMITH ANATOMISCHE PINZETTEN

|                                                                                     |       |
|-------------------------------------------------------------------------------------|-------|
|  |       |
| 180 mm                                                                              | CBA-8 |
| 230 mm                                                                              | CBB-1 |



2:3

STANDARD DISSECTING FORCEPS |  
STANDARD ANATOMISCHE PINZETTEN

|                                                                                      |       |
|--------------------------------------------------------------------------------------|-------|
|  |       |
| CERAMO®                                                                              |       |
| 160 mm                                                                               | COR-4 |

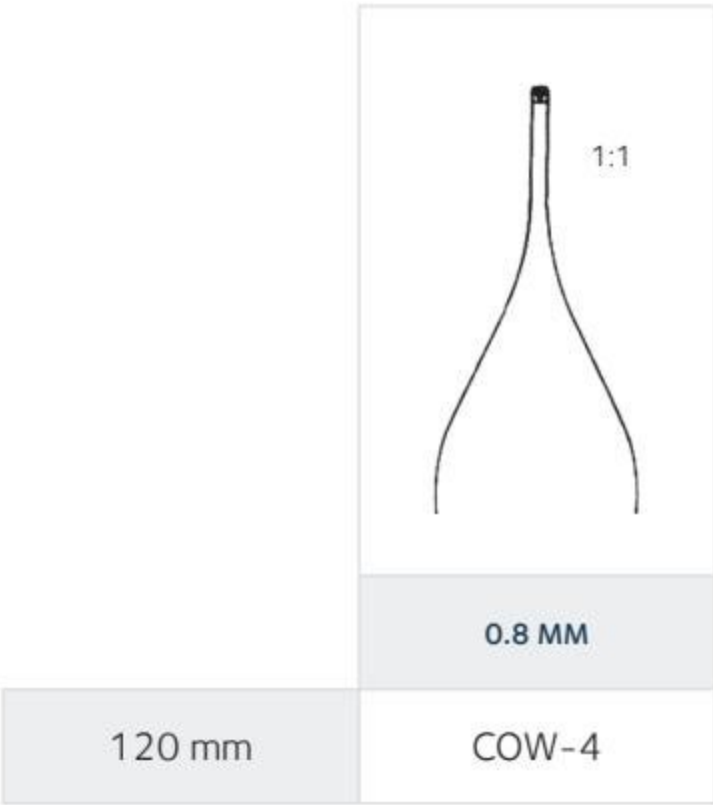


1:1



**CERAMO® MICRO ADSON TISSUE FORCEPS |**  
**CERAMO® MIKRO ADSON CHIRURGISCHE PINZETTEN**

1x2 teeth  
1x2 Zähne



2:3



1:1

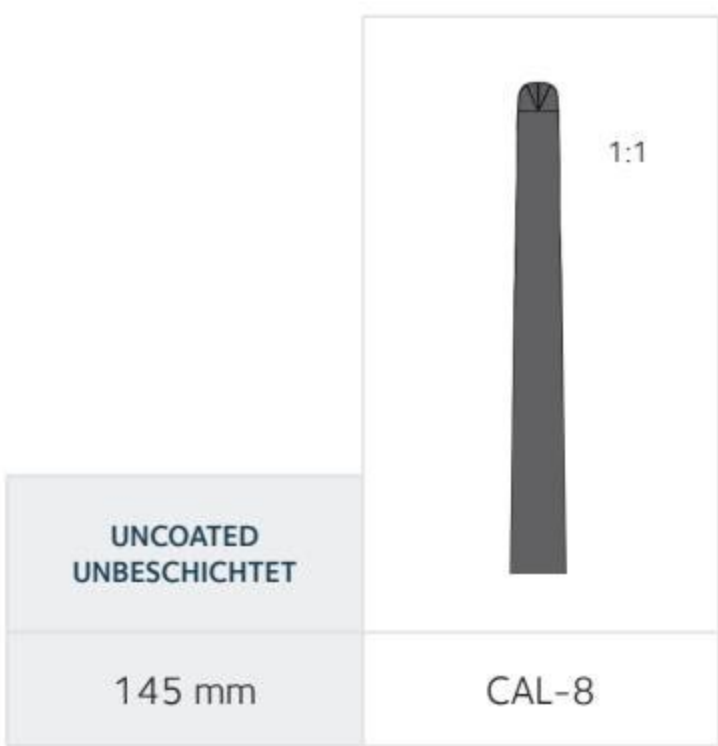
**RUSSIAN PATTERN TISSUE FORCEPS |**  
**RUSSISCHES MODELL CHIRURGISCHE PINZETTEN**

Uncoated  
Unbeschichtet

|        |       |
|--------|-------|
| 200 mm | CAU-4 |
| 250 mm | CAU-5 |

**STANDARD TISSUE FORCEPS |**  
**STANDARD CHIRURGISCHE PINZETTEN**

1x2 teeth  
1x2 Zähne

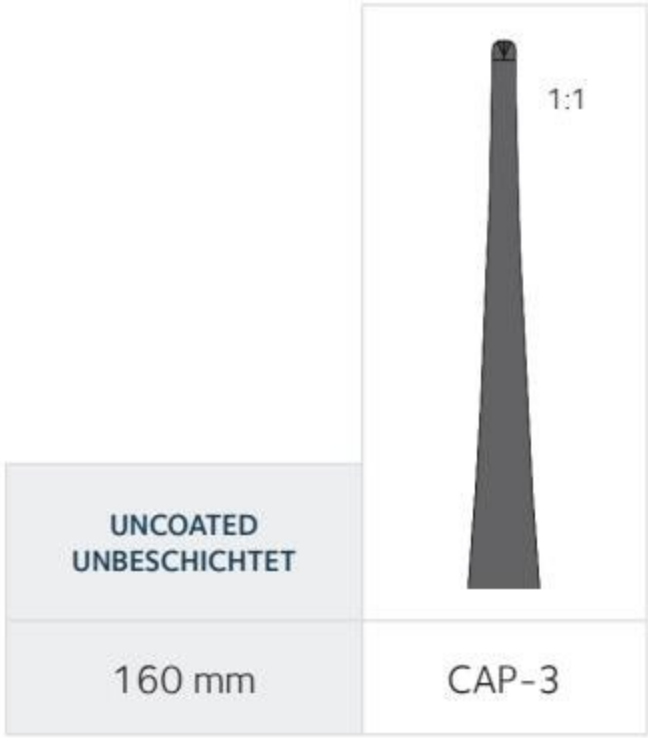


2:3



**TISSUE FORCEPS DELICATE |**  
**CHIRURGISCHE PINZETTEN SCHLANK**

1x2 teeth  
1x2 Zähne





CEBOTARI CHORDAE CLIP DE BAKEY TOOTHING |  
CEBOTARI CHORDAE CLIP DE BAKEY ZAHNUNG

| TOTAL LENGTH<br>GESAMTLÄNGE | JAW LENGTH<br>MAULLÄNGE | ART. NUMBER |
|-----------------------------|-------------------------|-------------|
| 24 mm                       | 9 mm                    | MIC-2       |



CERAMO® HCR VALVE FORCEPS |  
CERAMO® HCR KLAPPENPINZETTE

|        |       |
|--------|-------|
| 350 mm | MQW-1 |
|--------|-------|



T Titanium Titan

\* Titanium instruments are highlighted with a light blue color

T BULLDOG CLAMPS |  
BULLDOCKLEMMEN

|                                 |             |
|---------------------------------|-------------|
|                                 |             |
| IDENTIFICATION<br>KENNZEICHNUNG | A = Arteria |
| ART. NUMBER                     | MKS-9       |
| TOTAL LENGTH<br>GESAMTLÄNGE     | 30 mm       |
| LENGTH OF JAW<br>MAULLÄNGE      | 9 mm        |
| WEIGHT<br>GEWICHT               | 1 gr.       |



A (Arteria) = high pressure A  
(Arteria) = starker Druck 2 N ± 20%



T Titanium Titan

\* Titanium instruments are highlighted with a light blue color

T BULLDOG CLAMPS |  
BULLDOGKLEMMEN

|                                 |                                                                                    |                                                                                    |                                                                                     |                                                                                      |                                                                                      |
|---------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                 |  |  |  |  |  |
| IDENTIFICATION<br>KENNZEICHNUNG | V = Vena                                                                           | A = Arteria                                                                        | A = Arteria                                                                         | A = Arteria                                                                          | V = Vena                                                                             |
| ART. NUMBER                     | MMF-8                                                                              | MMA-9                                                                              | MMB-1                                                                               | MMB-2                                                                                | MMF-3                                                                                |
| TOTAL LENGTH<br>GESAMTLÄNGE     | 30 mm                                                                              | 35 mm                                                                              | 40 mm                                                                               | 48 mm                                                                                |                                                                                      |
| LENGTH OF JAW<br>MAULLÄNGE      | 9 mm                                                                               | 13 mm                                                                              | 14 mm                                                                               | 22 mm                                                                                |                                                                                      |
| WEIGHT<br>GEWICHT               | 1 gr.                                                                              | 1 gr.                                                                              | 1 gr.                                                                               | 1.5 gr.                                                                              |                                                                                      |

T BULLDOG CLAMPS |  
BULLDOGKLEMMEN

|                                 |                                                                                      |                                                                                      |                                                                                      |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                 |  |  |  |  |
| IDENTIFICATION<br>KENNZEICHNUNG | V = Vena                                                                             | A = Arteria                                                                          | A = Arteria                                                                          | A = Arteria                                                                          |
| ART. NUMBER                     | MMM-2                                                                                | MMM-1                                                                                | MMM-3                                                                                | MKT-2                                                                                |
| TOTAL LENGTH<br>GESAMTLÄNGE     | 30 mm                                                                                | 40 mm                                                                                | 45 mm                                                                                |                                                                                      |
| LENGTH OF JAW<br>MAULLÄNGE      | 10 mm                                                                                | 15 mm                                                                                | 21 mm                                                                                |                                                                                      |
| WEIGHT<br>GEWICHT               | 1 gr.                                                                                | 1 gr.                                                                                | 1.5 gr.                                                                              |                                                                                      |



WELDON BULLDOG CLAMPS |  
WELDON BULLDOCKLEMMEN

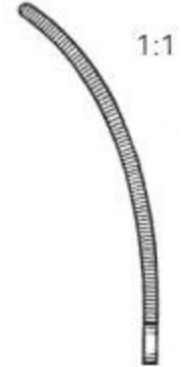
35 mm

|                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |
| STRAIGHT<br>GERADE                                                                | CURVED<br>GEBOGEN                                                                 |
| MAZ-7                                                                             | MAZ-9                                                                             |



WELDON BULLDOG CLAMPS |  
WELDON BULLDOCKLEMMEN

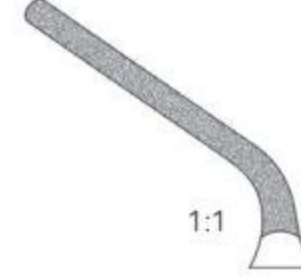
45 mm

|                                                                                     |
|-------------------------------------------------------------------------------------|
|  |
| CURVED<br>GEBOGEN                                                                   |
| MBA-1                                                                               |



TCM IMA BULLDOG CLAMPS |  
TCM IMA BULLDOCKLEMMEN

55 mm

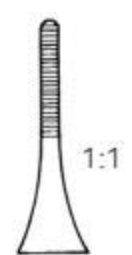
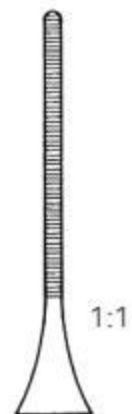
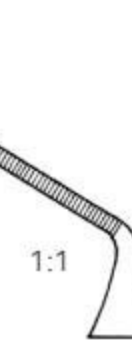
|                                                                                      |                                                                                      |                                                                                      |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |
| STRAIGHT<br>GERADE                                                                   | CURVED<br>GEBOGEN                                                                    | ANGLED<br>GEWINKELT                                                                  |
| MRK-1                                                                                | MRK-2                                                                                | MRK-3                                                                                |





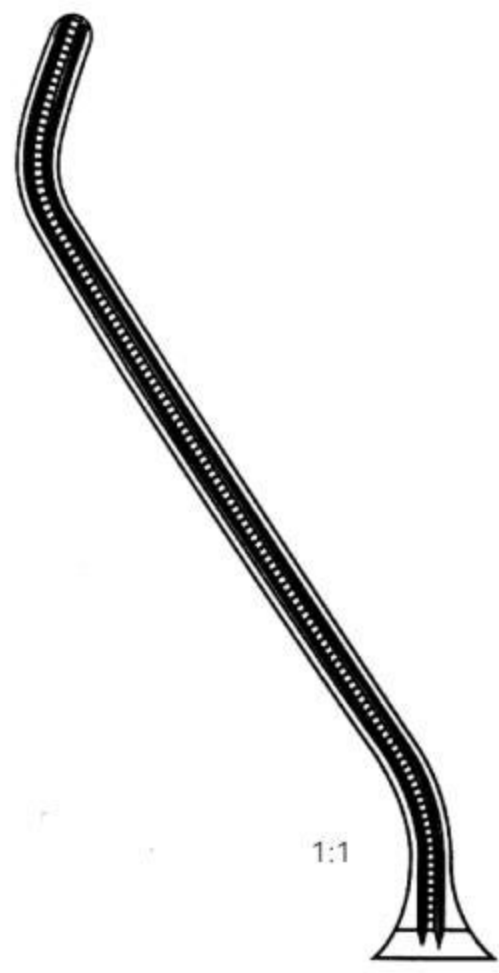
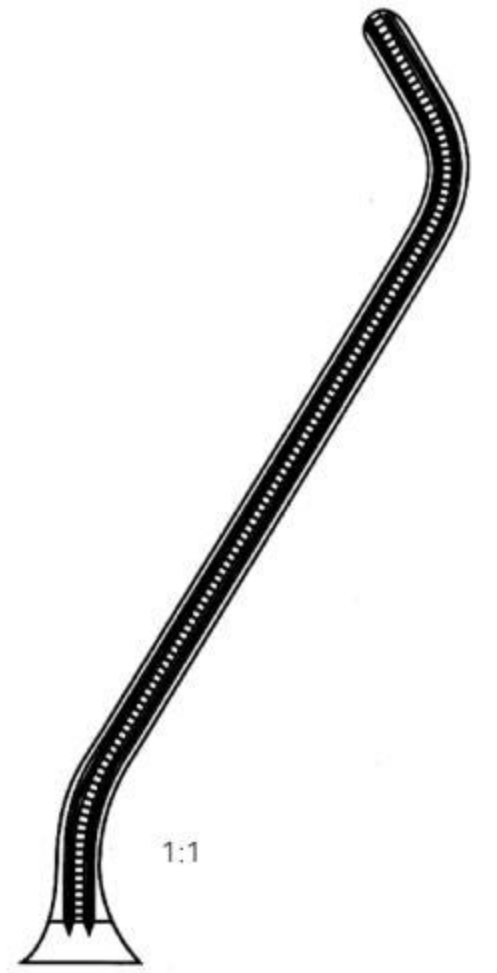
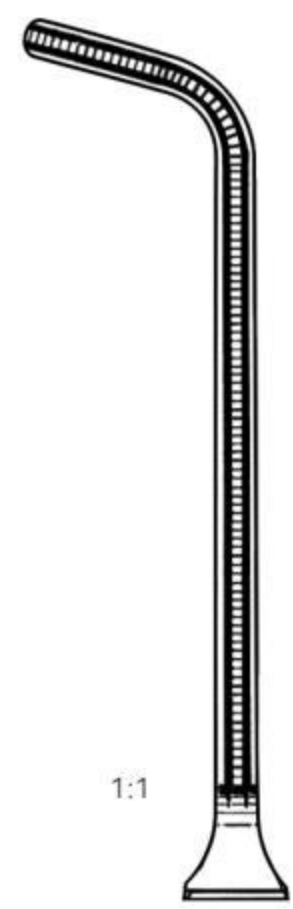
DIETHRICH BULLDOG CLAMPS |  
DIETHRICH BULLDOGGKLEMMEN

55 mm

|                                 |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                     |                                                                                      |
|---------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                 |  |  |  |  |  |  |  |
| JAW LENGTH<br>MAULLÄNGE         | 8 MM                                                                               | 12 MM                                                                              | 20 MM                                                                              | 8 MM                                                                               | 12 MM                                                                              | 20 MM                                                                               | 20 MM                                                                                |
| PRESSURE: 0.8 N<br>DRUCK: 0.8 N | MEF-1                                                                              | MEC-2                                                                              | MAW-6                                                                              | MAW-7                                                                              | MAW-8                                                                              | MAX-1                                                                               | MAW-5                                                                                |



GREGORY "SOFT" CAROTID CLAMPS |  
GREGORY "SOFT" CAROTIS KLEMMEN

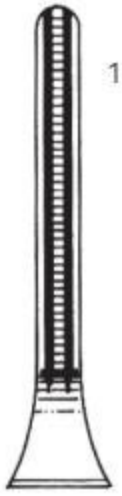
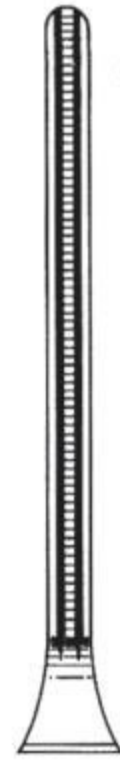
|                             |                                                                                      |                                                                                      |                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                             |  |  |  |
| JAW LENGTH<br>MAULLÄNGE     | 60 MM                                                                                |                                                                                      |                                                                                      |
| TOTAL LENGTH<br>GESAMTLÄNGE | 110 MM                                                                               |                                                                                      |                                                                                      |
|                             | MNI-7                                                                                | MNI-6                                                                                | MNJ-4                                                                                |





DE BAKEY BULLDOG CLAMPS |  
DE BAKEY BULLDOGGKLEMMEN

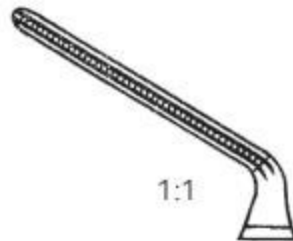
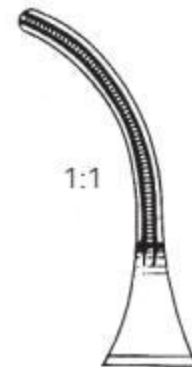
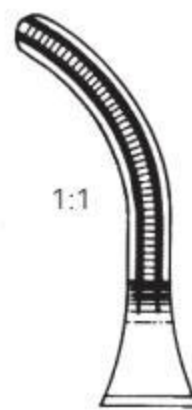
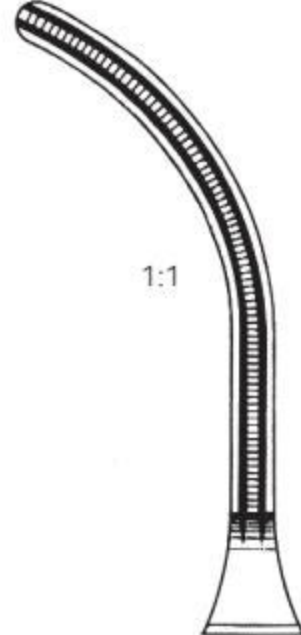
Non-traumatic  
Atraumatisch

|                             |                                                                                     |                                                                                    |                                                                                    |
|-----------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                             |  |  |  |
| TOTAL LENGTH<br>GESAMTLÄNGE | 55 MM                                                                               | 90 MM                                                                              | 105 MM                                                                             |
| PRESSURE / DRUCK:<br>1.8 N  | MAM-5                                                                               | MAM-7                                                                              | MAM-8                                                                              |



DE BAKEY BULLDOG CLAMPS |  
DE BAKEY BULLDOGGKLEMMEN

Non-traumatic  
Atraumatisch

|                                                                                             |                                                                                              |                                                                                              |                                                                                              |                                                                                             |                                                                                             |                                                                                             |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <br>1:1 | <br>1:1 | <br>1:1 | <br>1:1 | <br>1:1 | <br>1:1 | <br>1:1 |
| TOTAL LENGTH<br>GESAMTLÄNGE                                                                 | 55 MM                                                                                        | 55 MM                                                                                        | 75 MM                                                                                        | 85 MM                                                                                       | 105 MM                                                                                      | 120 MM                                                                                      |
| PRESSURE / DRUCK:<br>1.8 N                                                                  | MAM-4                                                                                        | MAN-2                                                                                        | MAN-3                                                                                        | MAN-4                                                                                       | MAN-5                                                                                       | MAN-6                                                                                       |
| PRESSURE / DRUCK:<br>2.8 N                                                                  | MAO-3                                                                                        |                                                                                              |                                                                                              |                                                                                             |                                                                                             |                                                                                             |



**T** Titanium Titan

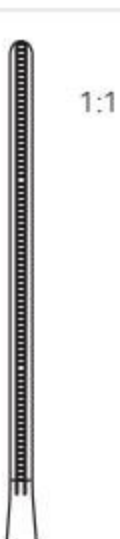
\* Titanium instruments are highlighted with a light blue color

**T** DE BAKEY NON-TRAUMATIC PEDIATRIC CLAMPS | DE BAKEY ATRAUMATISCHE PÄDIATRISCHE KLEMMEN

|                                                                                   |       |       |       |
|-----------------------------------------------------------------------------------|-------|-------|-------|
|  |       |       |       |
| 105 MM                                                                            | 60°   | 6 MM  | 9 MM  |
| ART. NUMBER                                                                       | MHN-1 | MHN-2 | MHN-4 |



NON-TRAUMATIC PEDIATRIC CLAMPS | ATRAUMATISCHE PÄDIATRISCHE KLEMMEN

|                                                                                     |        |
|-------------------------------------------------------------------------------------|--------|
|  |        |
| 125 MM                                                                              | 145 MM |
| MAC-2                                                                               | MAE-7  |

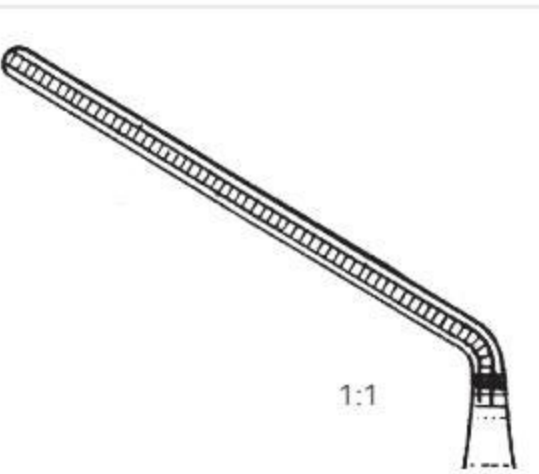


SEBENING NON-TRAUMATIC PEDIATRIC CLAMPS | SEBENING ATRAUMATISCHE PÄDIATRISCHE KLEMMEN

|                                                                                      |       |       |
|--------------------------------------------------------------------------------------|-------|-------|
|  |       |       |
| 105 MM                                                                               | 6 MM  | 9 MM  |
| ART. NUMBER                                                                          | MHO-3 | MHO-4 |



NON-TRAUMATIC PEDIATRIC CLAMPS | ATRAUMATISCHE PÄDIATRISCHE KLEMMEN 60°

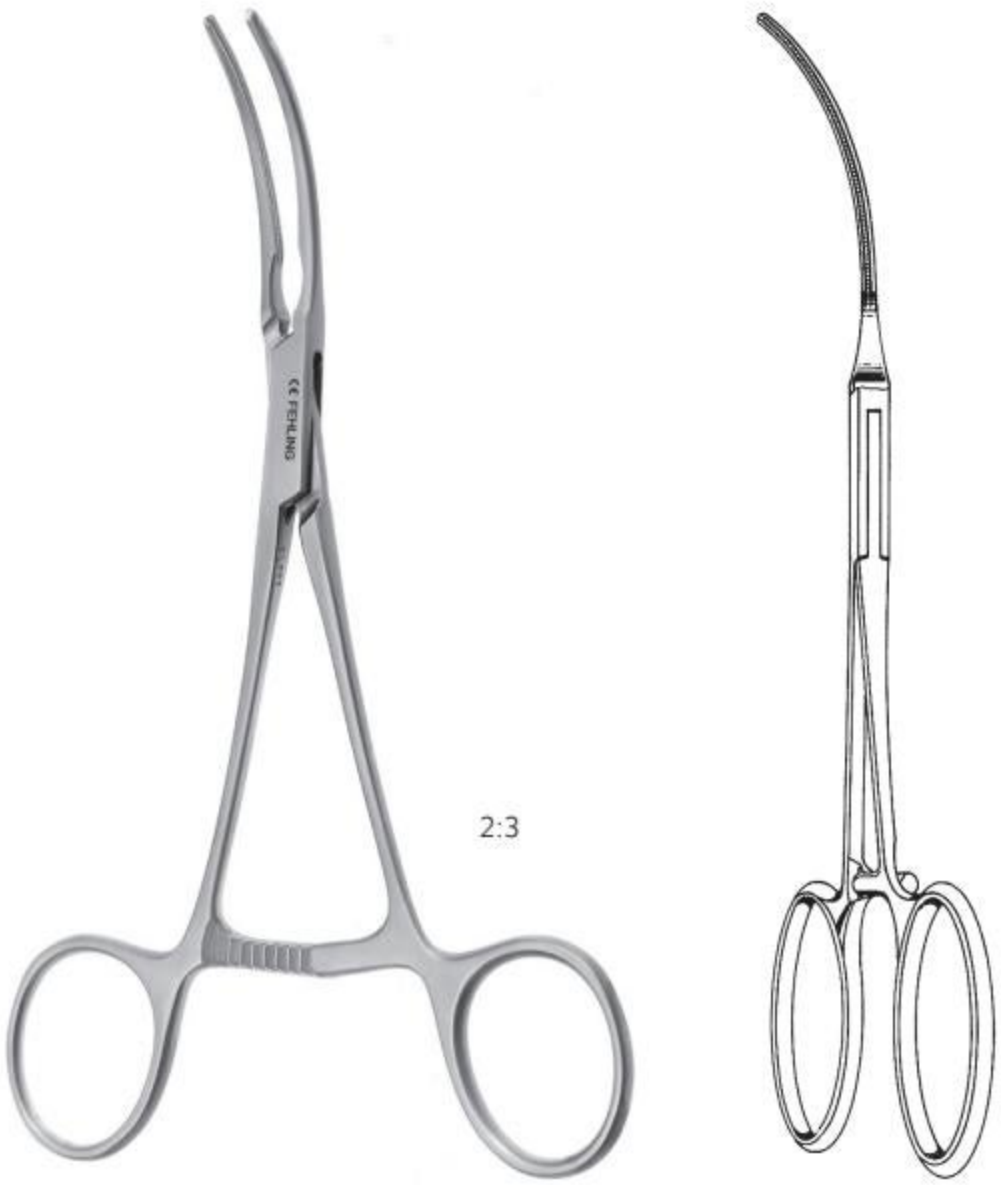
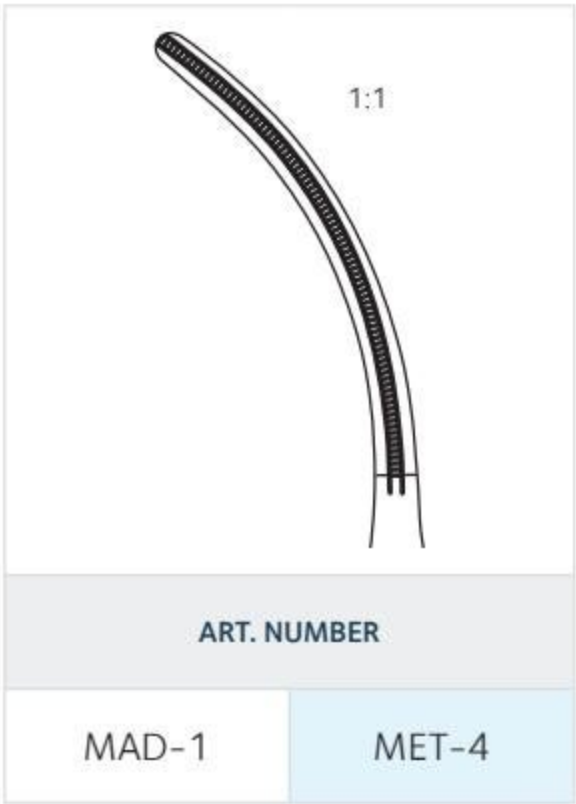
|                                                                                       |        |        |
|---------------------------------------------------------------------------------------|--------|--------|
|  |        |        |
| 125 MM                                                                                | 145 MM | 165 MM |
| MAC-4                                                                                 | MAE-9  | MAH-4  |



**T** Titanium Titan

\* Titanium instruments are highlighted with a light blue color

**T** NON-TRAUMATIC PEDIATRIC CLAMPS | ATRAUMATISCHE PÄDIATRISCHE KLEMMEN  
125 mm



NON-TRAUMATIC PEDIATRIC CLAMPS | ATRAUMATISCHE PÄDIATRISCHE KLEMMEN



NON-TRAUMATIC PEDIATRIC CLAMPS | ATRAUMATISCHE PÄDIATRISCHE KLEMMEN

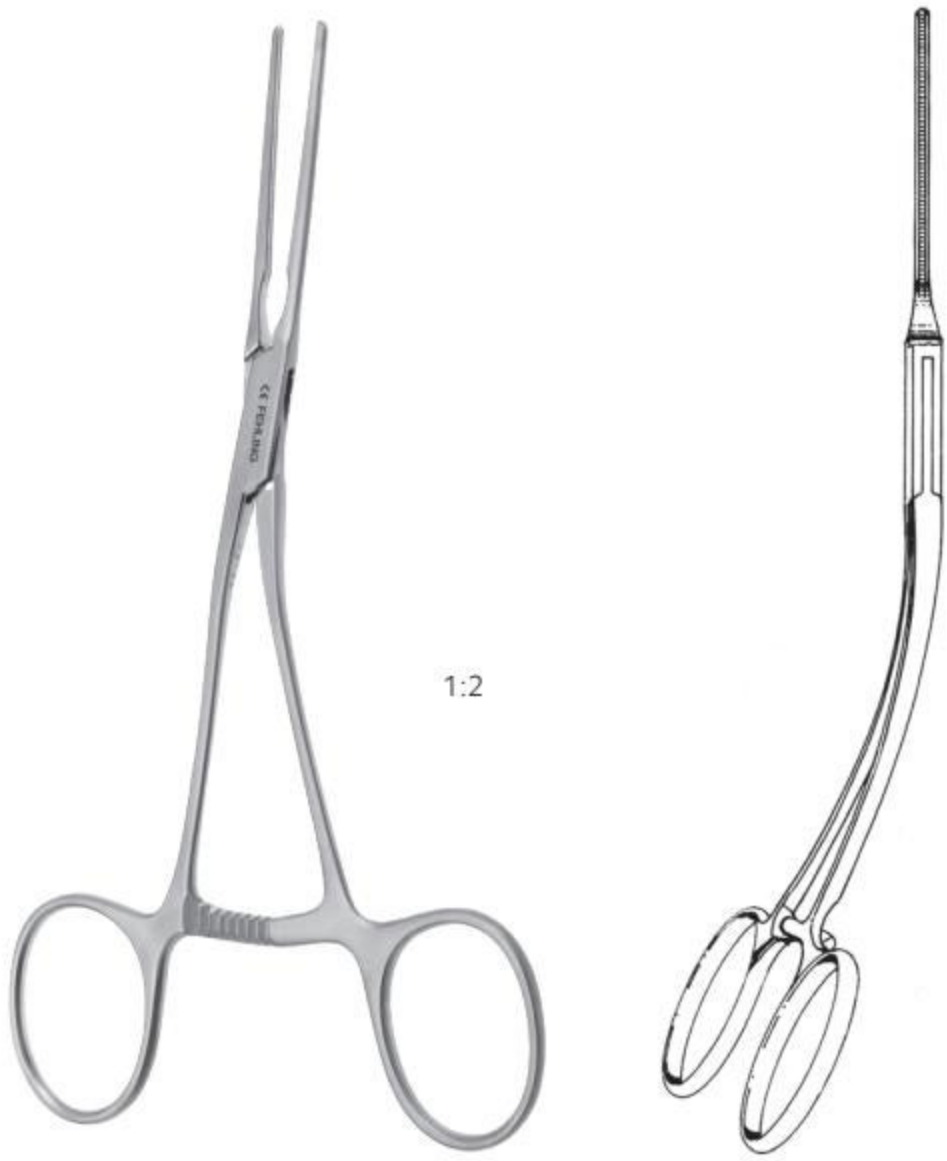
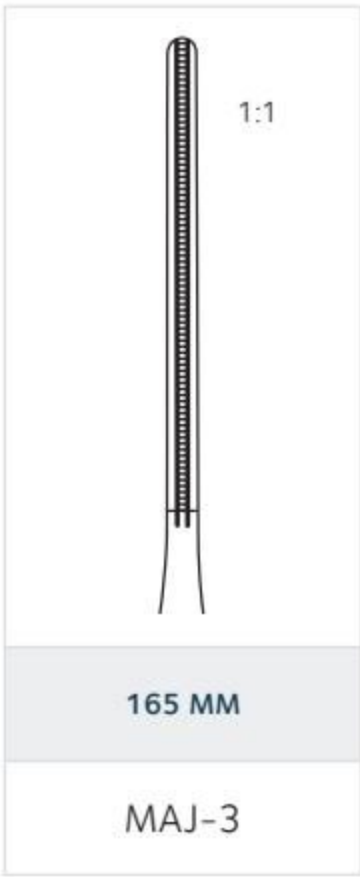


NON-TRAUMATIC PEDIATRIC CLAMPS | ATRAUMATISCHE PÄDIATRISCHE KLEMMEN

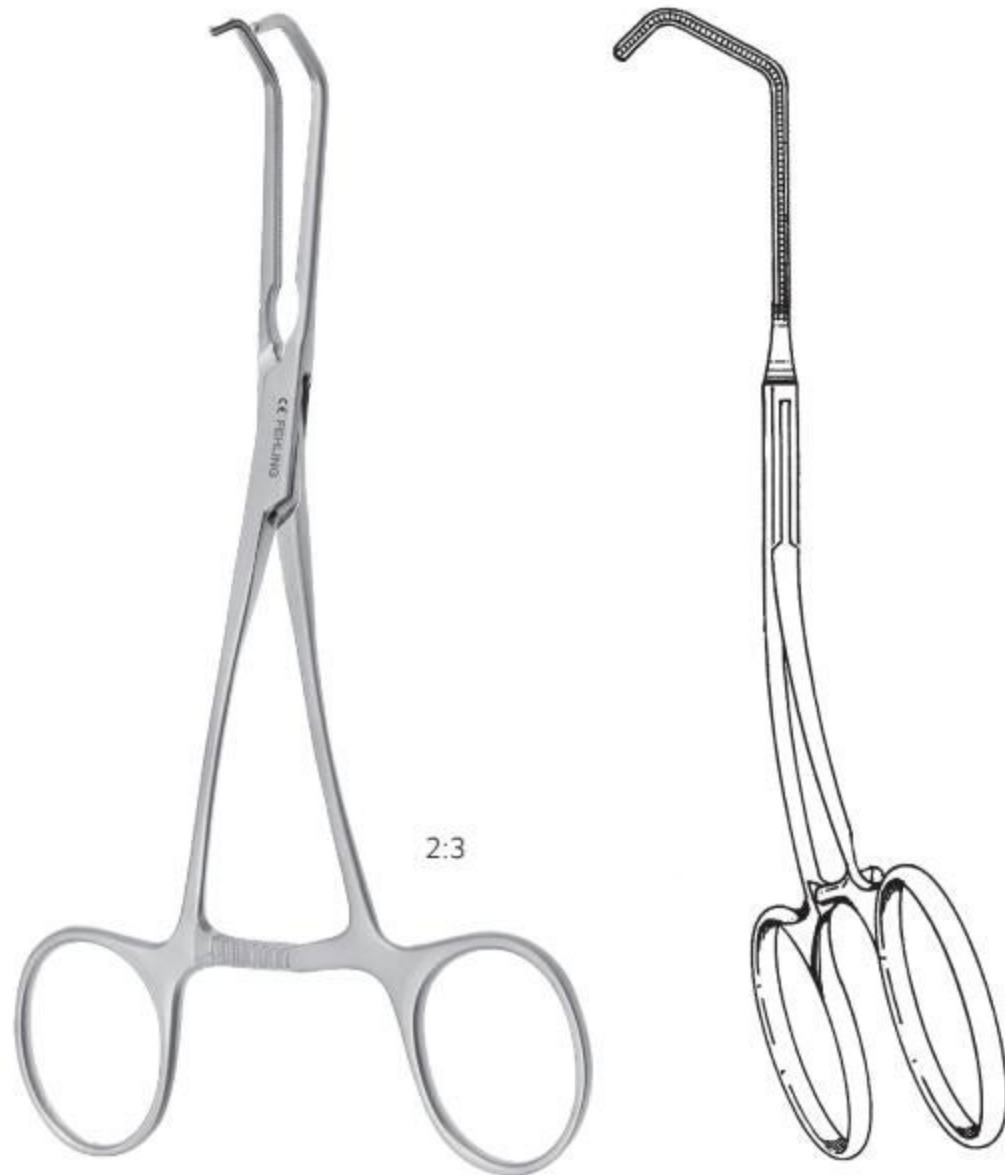
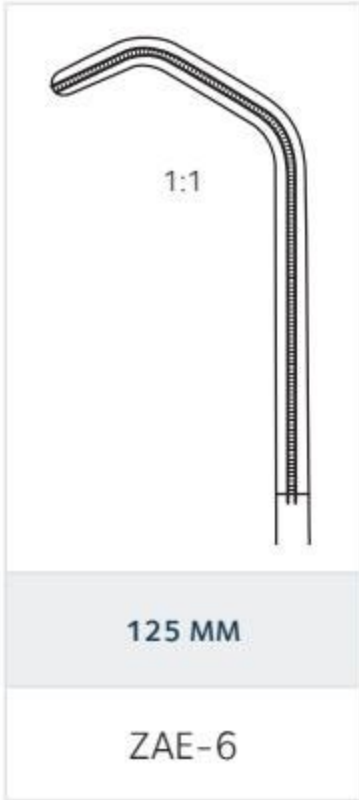




NON-TRAUMATIC PEDIATRIC CLAMPS | ATRAUMATISCHE PÄDIATRISCHE KLEMMEN



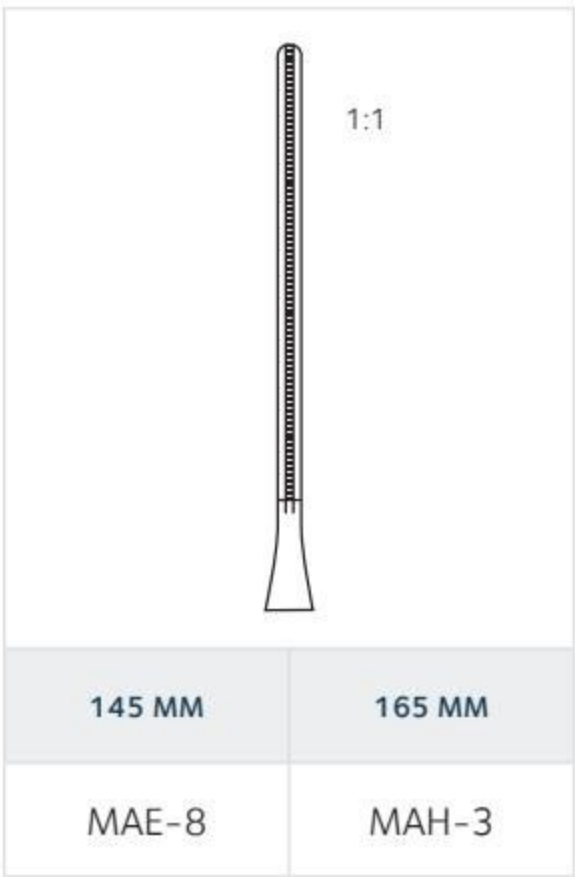
NON-TRAUMATIC PEDIATRIC CLAMPS | ATRAUMATISCHE PÄDIATRISCHE KLEMMEN



NON-TRAUMATIC PEDIATRIC CLAMPS | ATRAUMATISCHE PÄDIATRISCHE KLEMMEN



NON-TRAUMATIC PEDIATRIC CLAMPS | ATRAUMATISCHE PÄDIATRISCHE KLEMMEN





NON-TRAUMATIC PEDIATRIC CLAMPS |  
ATRAUMATISCHE PÄDIATRISCHE KLEMMEN



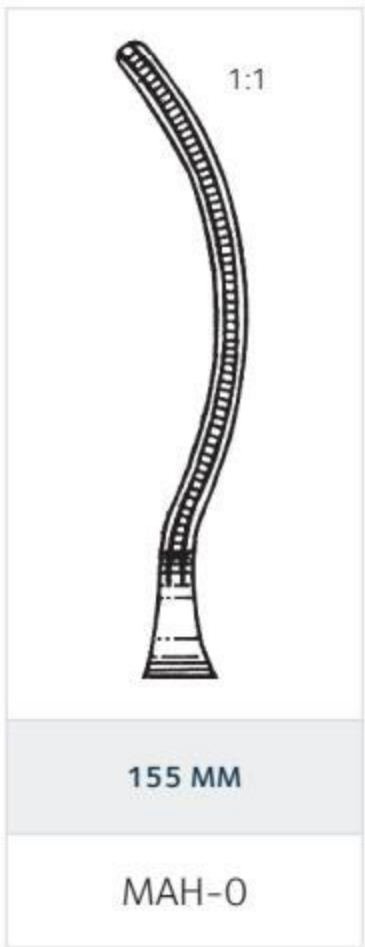
NON-TRAUMATIC PEDIATRIC CLAMPS |  
ATRAUMATISCHE PÄDIATRISCHE KLEMMEN



NON-TRAUMATIC PEDIATRIC CLAMPS |  
ATRAUMATISCHE PÄDIATRISCHE KLEMMEN



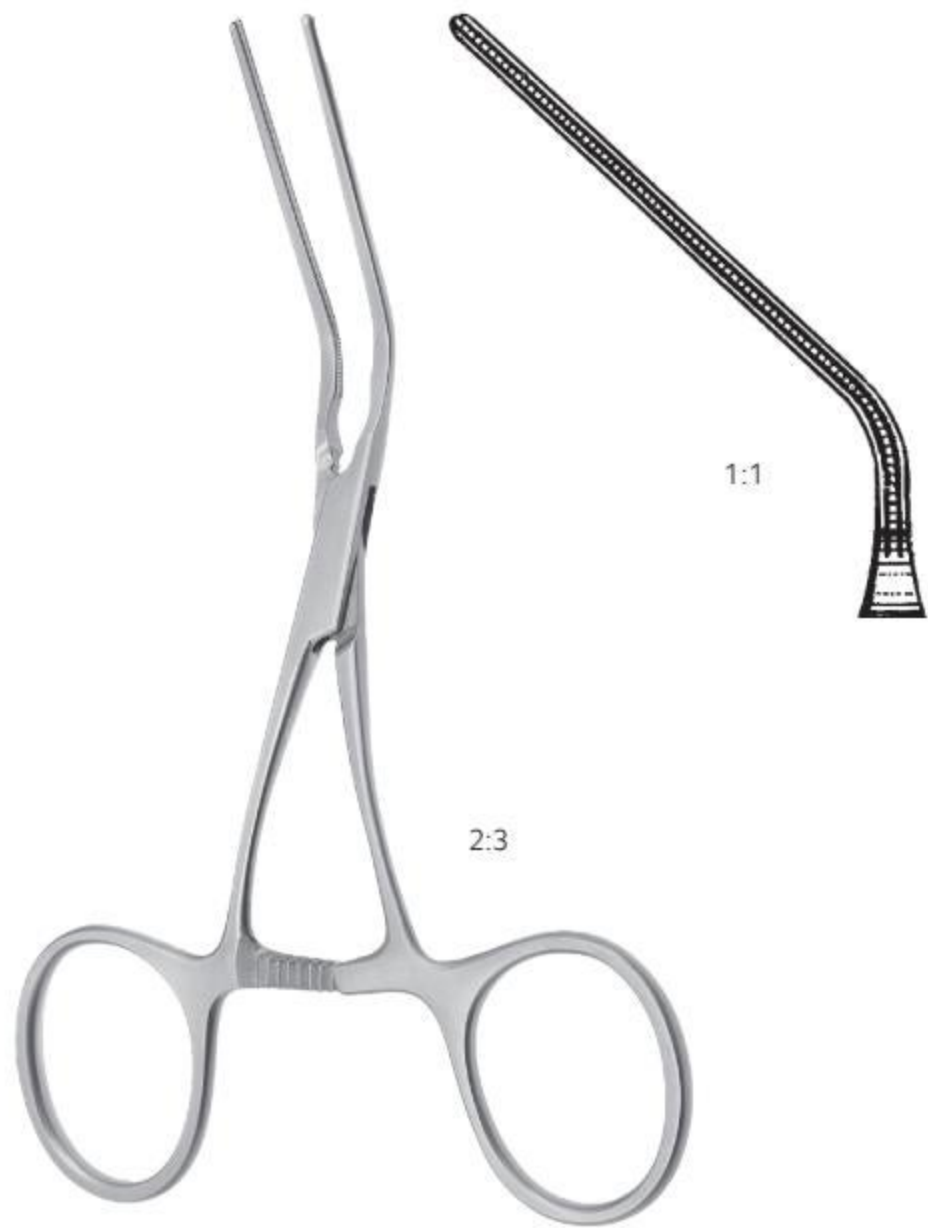
NON-TRAUMATIC PEDIATRIC CLAMPS |  
ATRAUMATISCHE PÄDIATRISCHE KLEMMEN





NON-TRAUMATIC PEDIATRIC CLAMPS |  
ATRAUMATISCHE PÄDIATRISCHE KLEMMEN

|        |
|--------|
| 130 MM |
| MAE-5  |



DE BAKEY NON-TRAUMATIC PEDIATRIC  
FORCEPS | DE BAKEY ATRAUMATISCHE  
PÄDIATRISCHE KLEMMEN

|        |
|--------|
| 100 MM |
| MED-9  |



T Titanium Titan

\* Titanium instruments are  
highlighted with a light blue color



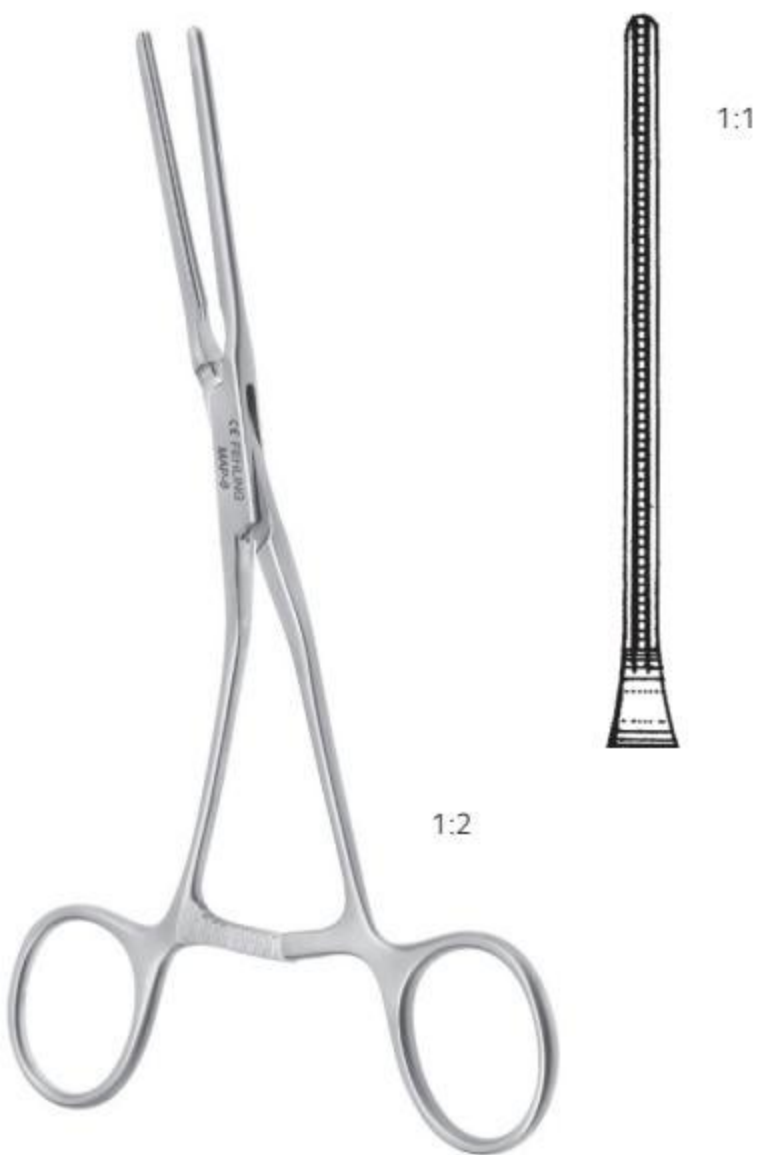
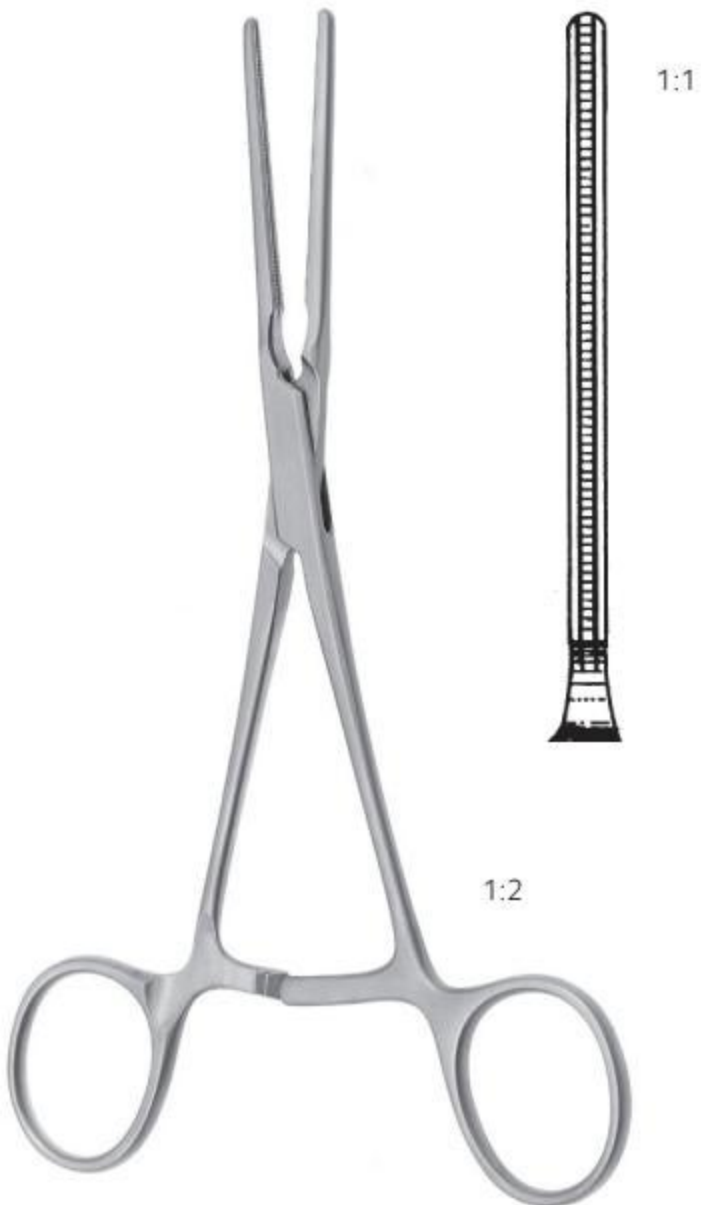
T NON-TRAUMATIC PEDIATRIC CLAMPS |  
ATRAUMATISCHE PÄDIATRISCHE KLEMMEN

|        |
|--------|
| 175 MM |
| MDU-7  |



DE BAKEY NON-TRAUMATIC CLAMPS |  
DE BAKEY ATRAUMATISCHE KLEMMEN

|        |
|--------|
| 170 MM |
| MAP-8  |

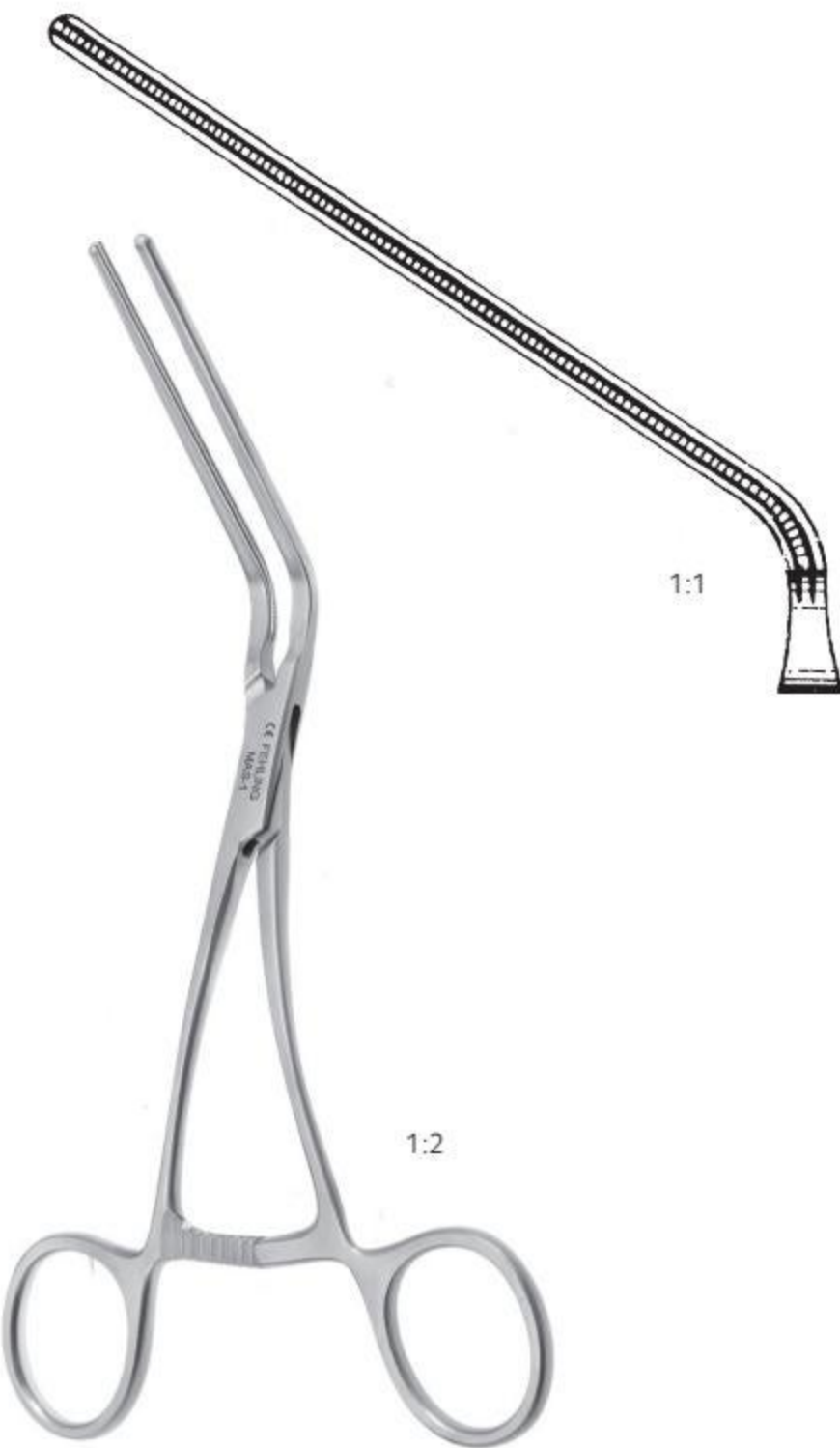
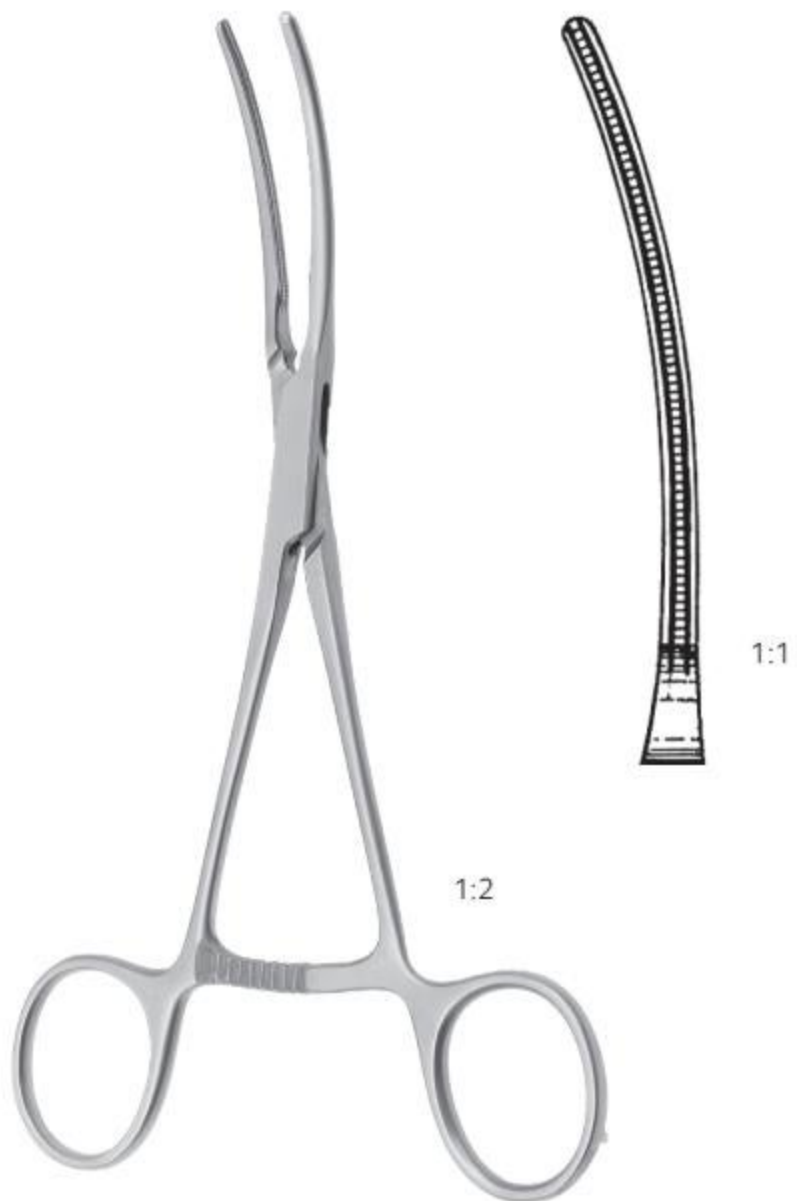


DE BAKEY NON-TRAUMATIC CLAMPS |  
DE BAKEY ATRAUMATISCHE KLEMMEN

|        |
|--------|
| 165 MM |
| MAP-9  |

DE BAKEY NON-TRAUMATIC CLAMPS |  
DE BAKEY ATRAUMATISCHE KLEMMEN

|        |
|--------|
| 170 MM |
| MAC-1  |



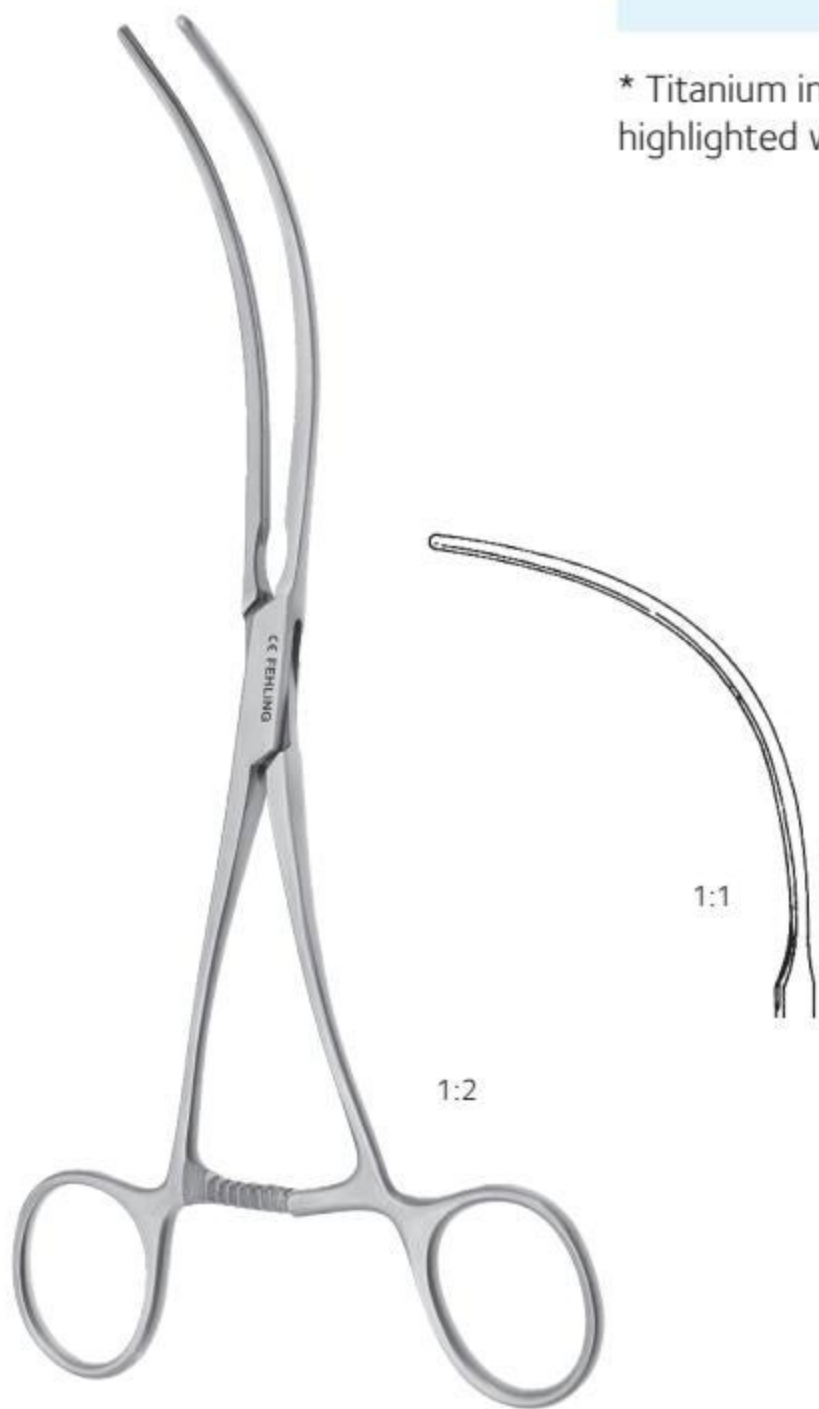
DE BAKEY NON-TRAUMATIC CLAMPS |  
DE BAKEY ATRAUMATISCHE KLEMMEN

|        |
|--------|
| 180 MM |
| MAS-1  |



**T** DE BAKEY NON-TRAUMATIC CLAMPS | DE BAKEY ATRAUMATISCHE KLEMMEN

|        |
|--------|
| 185 MM |
| MAR-2  |
| MEP-4  |



**T** Titanium Titan

\* Titanium instruments are highlighted with a light blue color



DE BAKEY NON-TRAUMATIC CLAMPS | DE BAKEY ATRAUMATISCHE KLEMMEN

|        |        |        |        |
|--------|--------|--------|--------|
| 225 MM | 235 MM | 280 MM | 310 MM |
| MHD-5  | MAS-9  | MHD-7  | MAT-1  |

DE BAKEY NON-TRAUMATIC CLAMPS | DE BAKEY ATRAUMATISCHE KLEMMEN

|        |
|--------|
| 190 MM |
| MDV-7  |



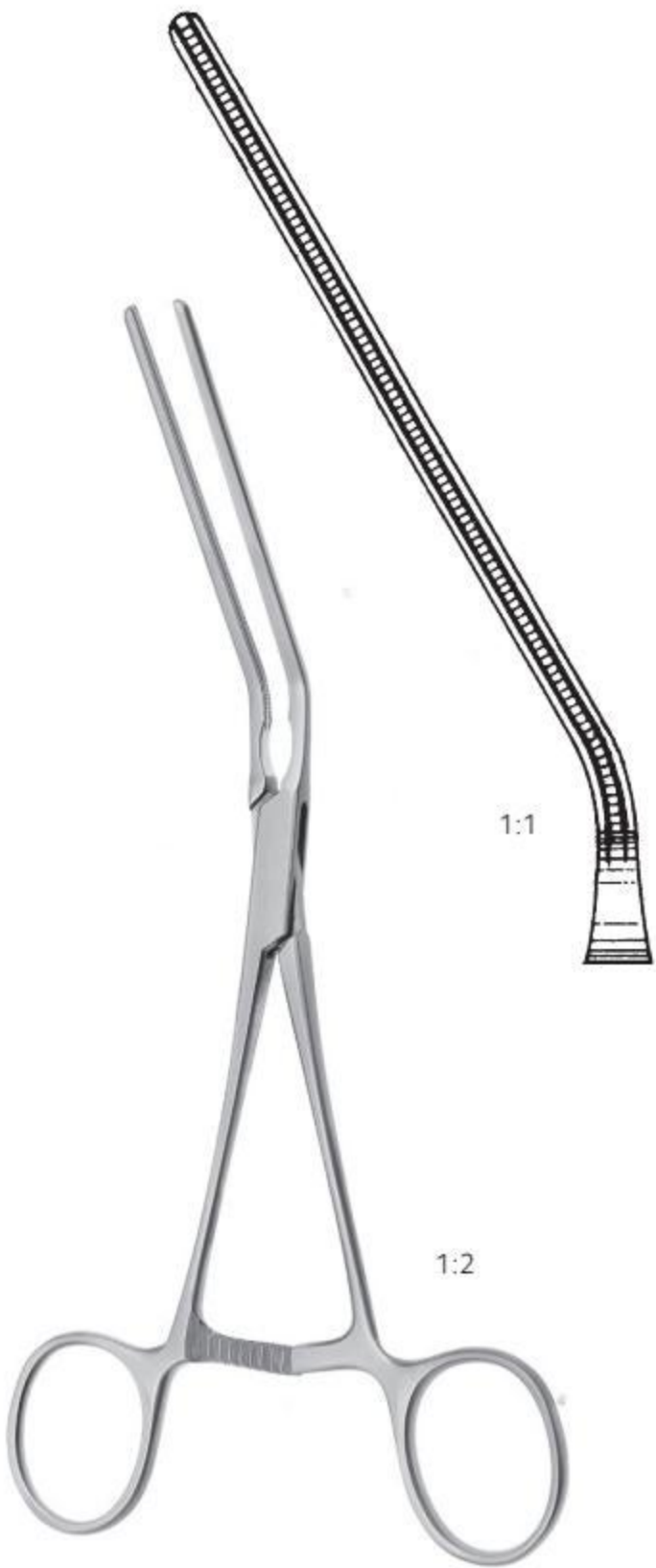
DE BAKEY BORST NON-TRAUMATIC CLAMPS | DE BAKEY BORST ATRAUMATISCHE KLEMMEN

|        |        |        |
|--------|--------|--------|
| 200 MM | 230 MM | 250 MM |
| MAU-3  | MHF-6  | MAU-4  |



DE BAKEY BAINBRIDGE NON-TRAUMATIC  
CLAMPS | DE BAKEY BAINBRIDGE  
ATRAUMATISCHE KLEMMEN

|        |
|--------|
| 180 MM |
| MAN-8  |



LELAND-JONES NON-TRAUMATIC  
CLAMPS | LELAND-JONES  
ATRAUMATISCHE KLEMMEN

|        |       |
|--------|-------|
| 190 MM |       |
| MAZ-5  | MAZ-6 |

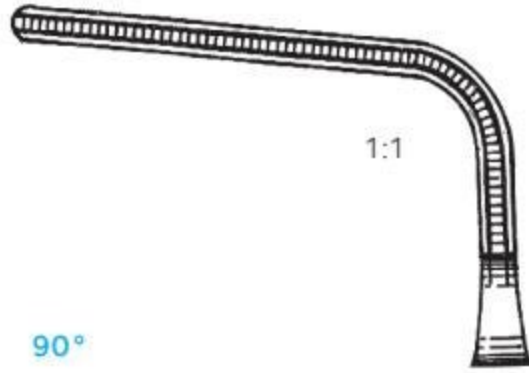
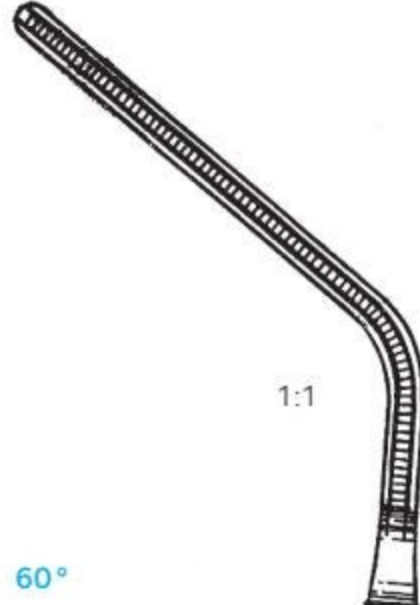
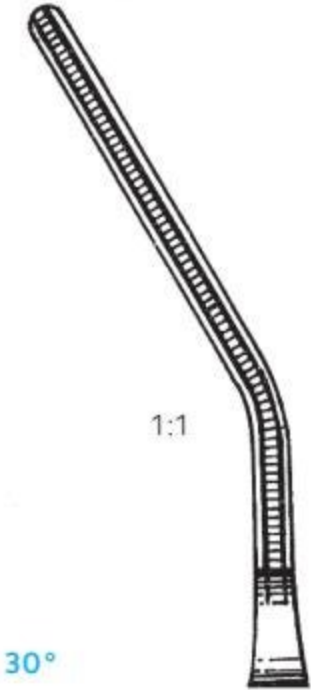


DE BAKEY NON-TRAUMATIC  
CLAMPS | DE BAKEY  
ATRAUMATISCHE KLEMMEN

|        |
|--------|
| 170 MM |
| MAX-8  |



DE BAKEY NON-TRAUMATIC CLAMPS |  
DE BAKEY ATRAUMATISCHE KLEMMEN

|                                                                                              |                                                                                              |                                                                                              |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <br>90° | <br>60° | <br>30° |
| 150 MM                                                                                       | 160 MM                                                                                       | 170 MM                                                                                       |
| MHC-7                                                                                        | MHC-9                                                                                        | MHC-8                                                                                        |



DE BAKEY NON-TRAUMATIC PEDIATRIC FORCEPS |  
DE BAKEY ATRAUMATISCHE PÄDIATRISCHE KLEMMEN

| 255 MM | 265 MM | 300 MM | 310 MM | 2X3 TEETH / ZÄHNE<br>320 MM |
|--------|--------|--------|--------|-----------------------------|
| MAA-9  | MAB-1  | MAB-2  | MAB-3  | MFR-6                       |



T Titanium Titan

\* Titanium instruments are highlighted with a light blue color

GLOVER ANEURYSM AND ANASTOMOSIS CLAMPS | GLOVER ANEURYSMA- UND ANASTOMOSENKLEMMEN

| 215 MM |
|--------|
| MAY-1  |



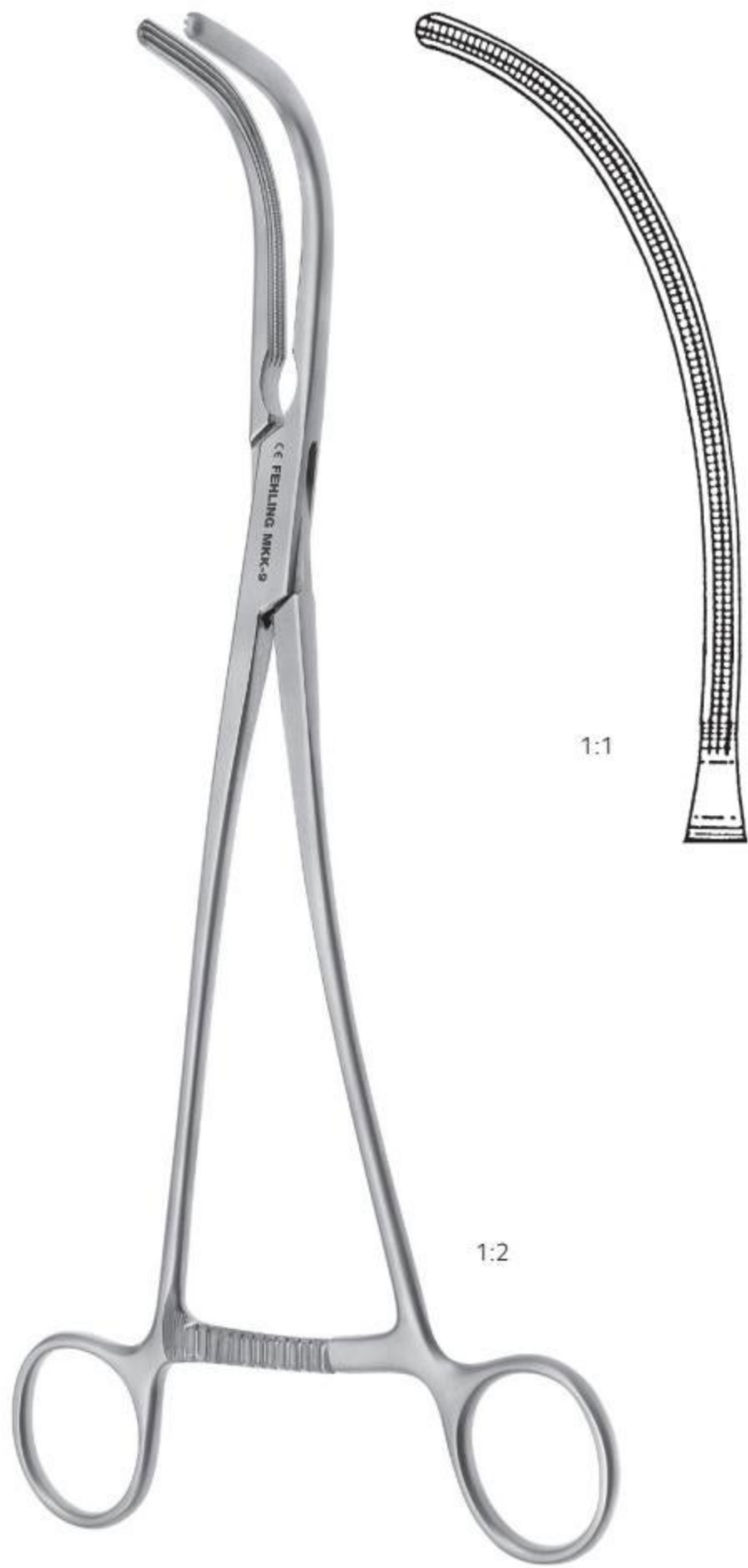
T LAMBERT-KAY ANEURYSM AND ANASTOMOSIS CLAMPS | LAMBERT-KAY ANEURYSMA- UND ANASTOMOSENKLEMMEN

| 200 MM | 255 MM |
|--------|--------|
| MAU-5  | MBA-8  |
| MBF-5  |        |



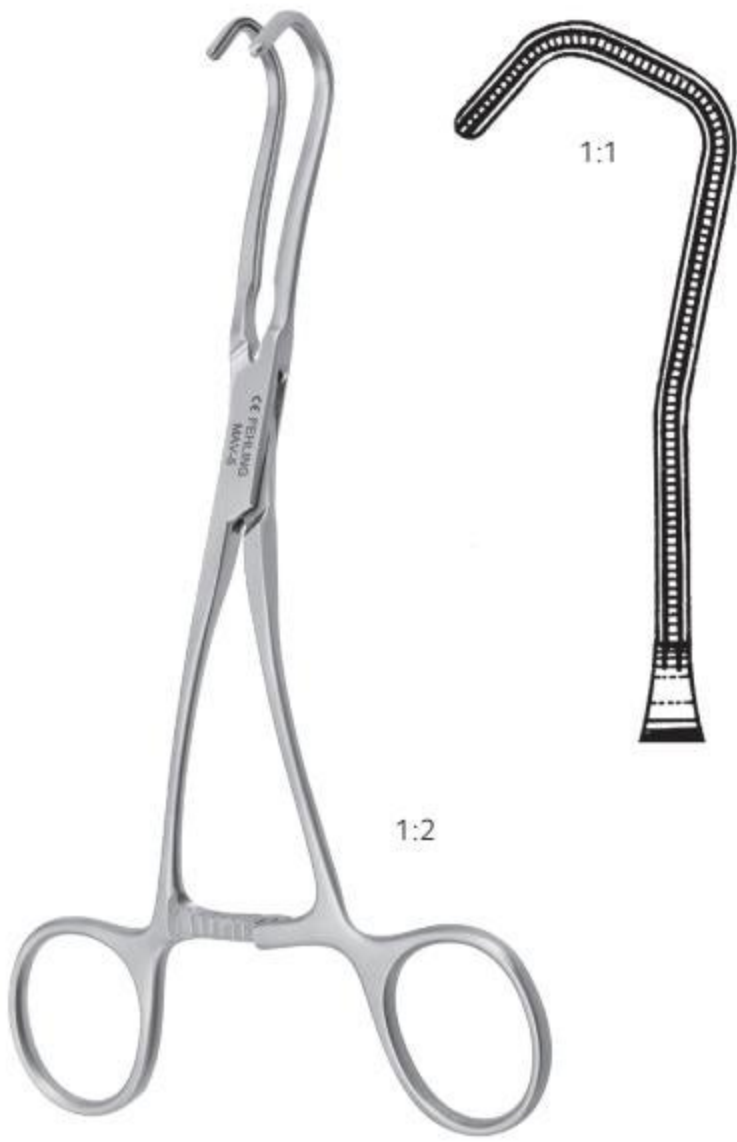
DERRA ANEURYSM AND ANASTOMOSIS CLAMPS |  
DERRA ANEURYSMA- UND ANASTOMOSENKLEMMEN

| 160 MM | 170 MM | 180 MM |
|--------|--------|--------|
| MAV-5  | MAV-4  | MAB-9  |



T Titanium Titan

\* Titanium instruments are highlighted with a light blue color



DE BAKEY ANEURYSM AND ANASTOMOSIS CLAMPS |  
DE BAKEY ANEURYSMA- UND ANASTOMOSENKLEMMEN

|                             |
|-----------------------------|
| 2X3 TEETH / ZÄHNE<br>265 MM |
| MKK-8                       |

T SATINSKY NON-TRAUMATIC CLAMPS |  
SATINSKY ATRAUMATISCHE KLEMMEN





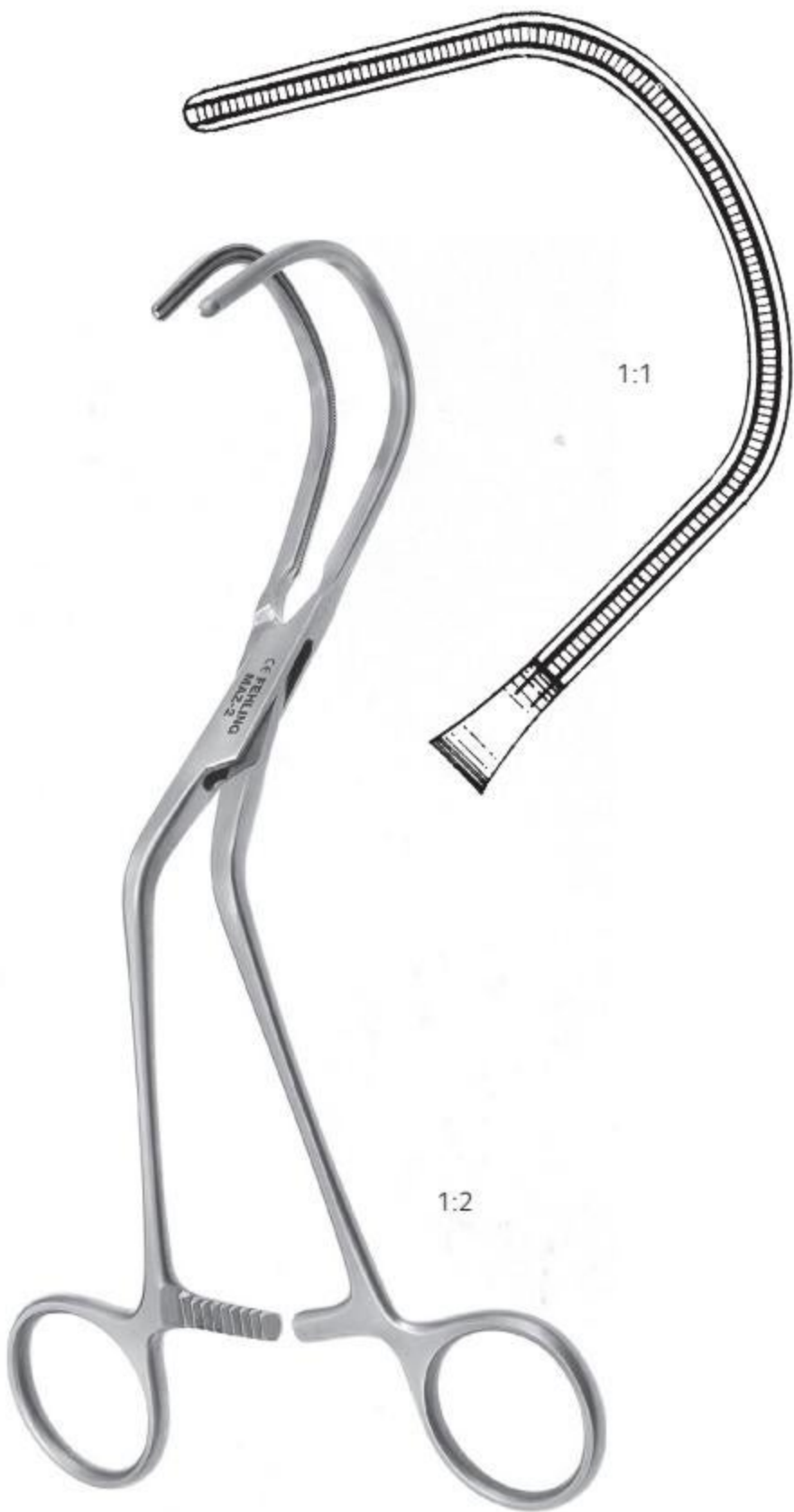
HANNOVER PROXIMAL ARCH CLAMP |  
HANNOVER PROXIMALE BOGENKLEMME

| TOTAL LENGTH<br>GESAMTLÄNGE | JAW LENGTH<br>MAULLÄNGE | ART. NUMBER |
|-----------------------------|-------------------------|-------------|
| 225 mm                      | 82 mm                   | MNN-7       |
| 250 mm                      | 103 mm                  | MNN-8       |
| 260 mm                      | 112 mm                  | MNN-9       |



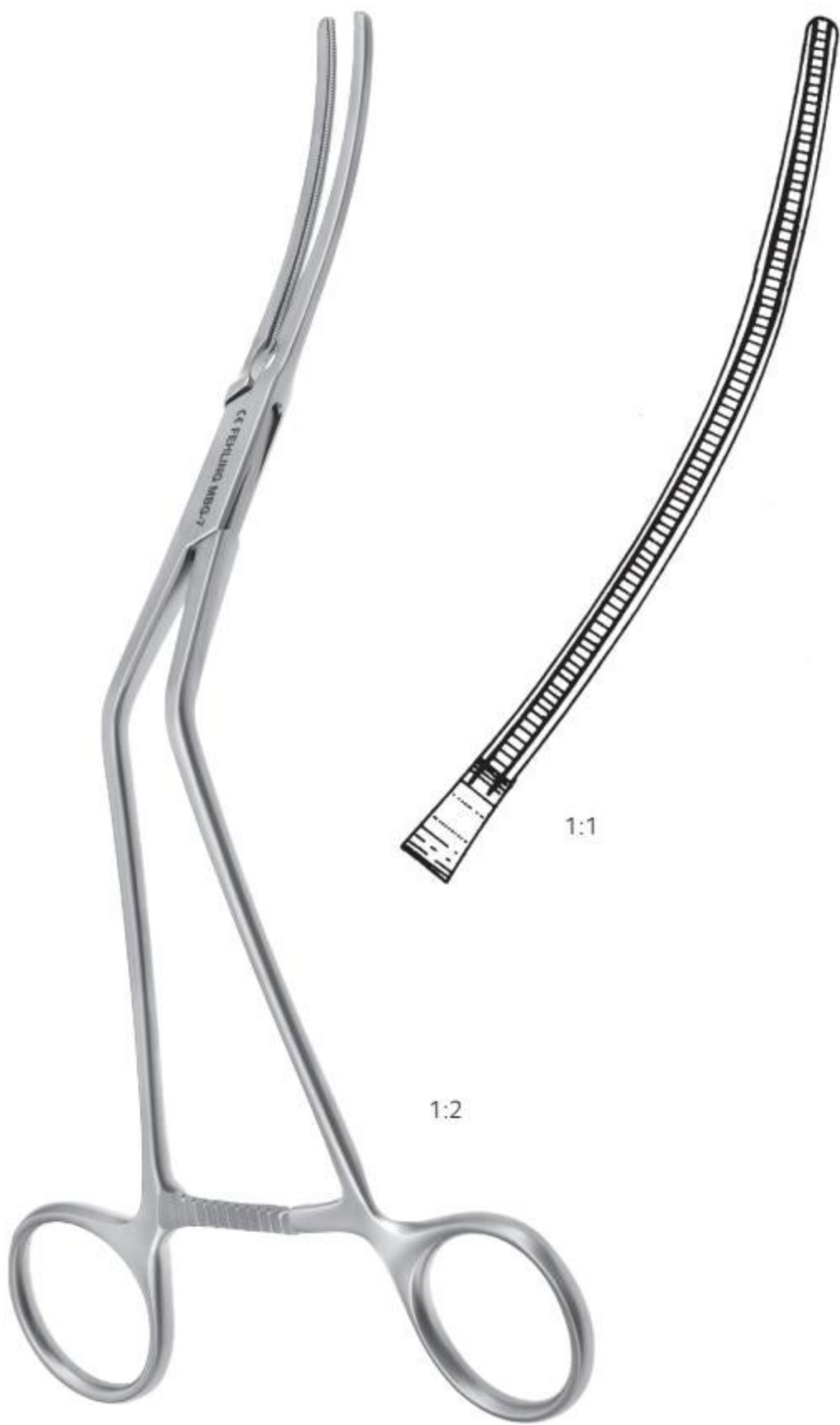
PATENT-DUCTUS-CLAMPS |  
PATENT-DUCTUS-KLEMMEN

|        |
|--------|
| 210 MM |
| MEE-3  |



WYLIE AORTIC CLAMPS |  
WYLIE AORTENKLEMMEN

|        |
|--------|
| 240 MM |
| MBG-7  |



KAY AORTIC CLAMPS |  
KAY AORTENKLEMMEN

|        |
|--------|
| 200 MM |
| MAZ-2  |



WEBER VENA CAVA CLAMPS |  
WEBER VENA CAVA KLEMMEN

Right Pattern  
Rechtsmodell

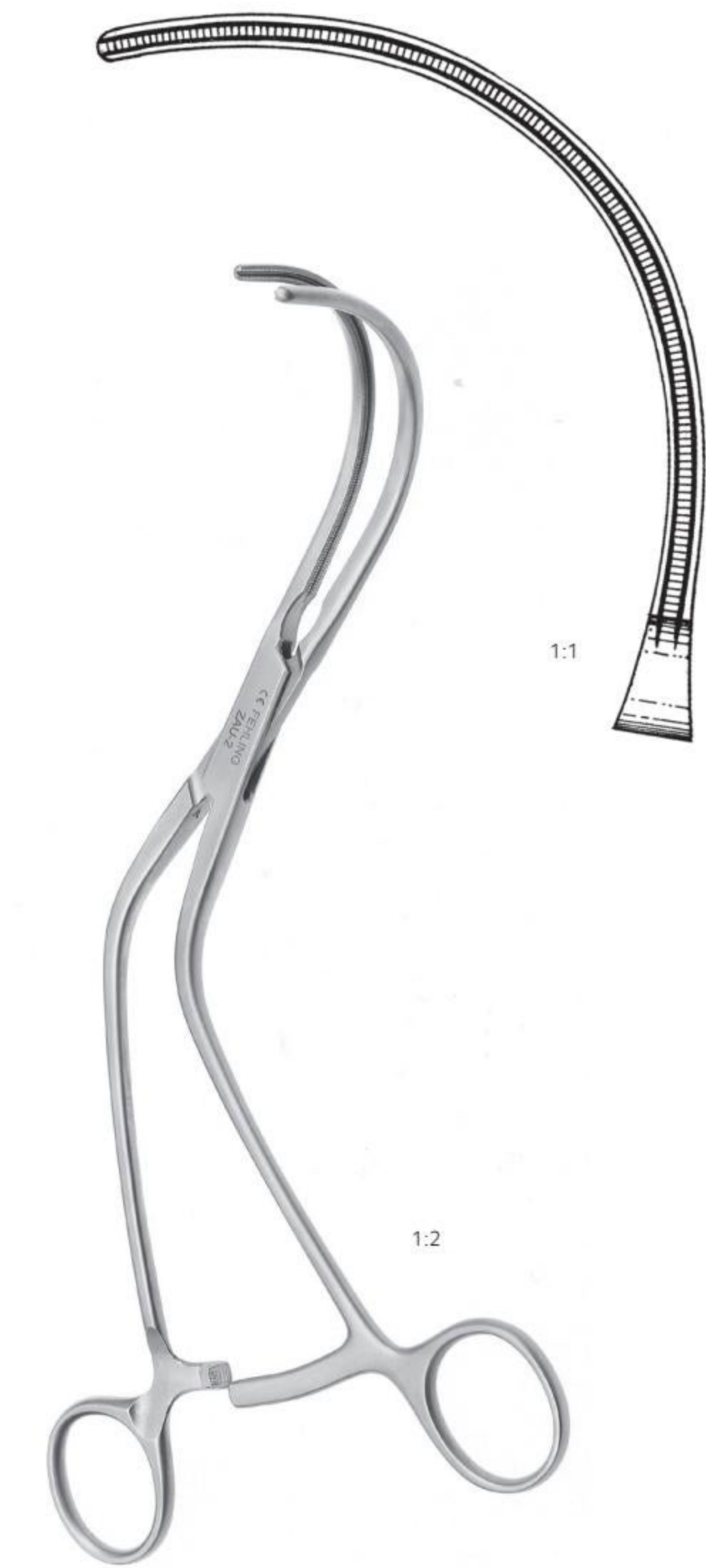
|        |
|--------|
| 260 MM |
| ZAU-3  |



WEBER VENA CAVA CLAMPS |  
WEBER VENA CAVA KLEMMEN

Left Pattern  
Linksmodell

|        |
|--------|
| 260 MM |
| ZAU-2  |





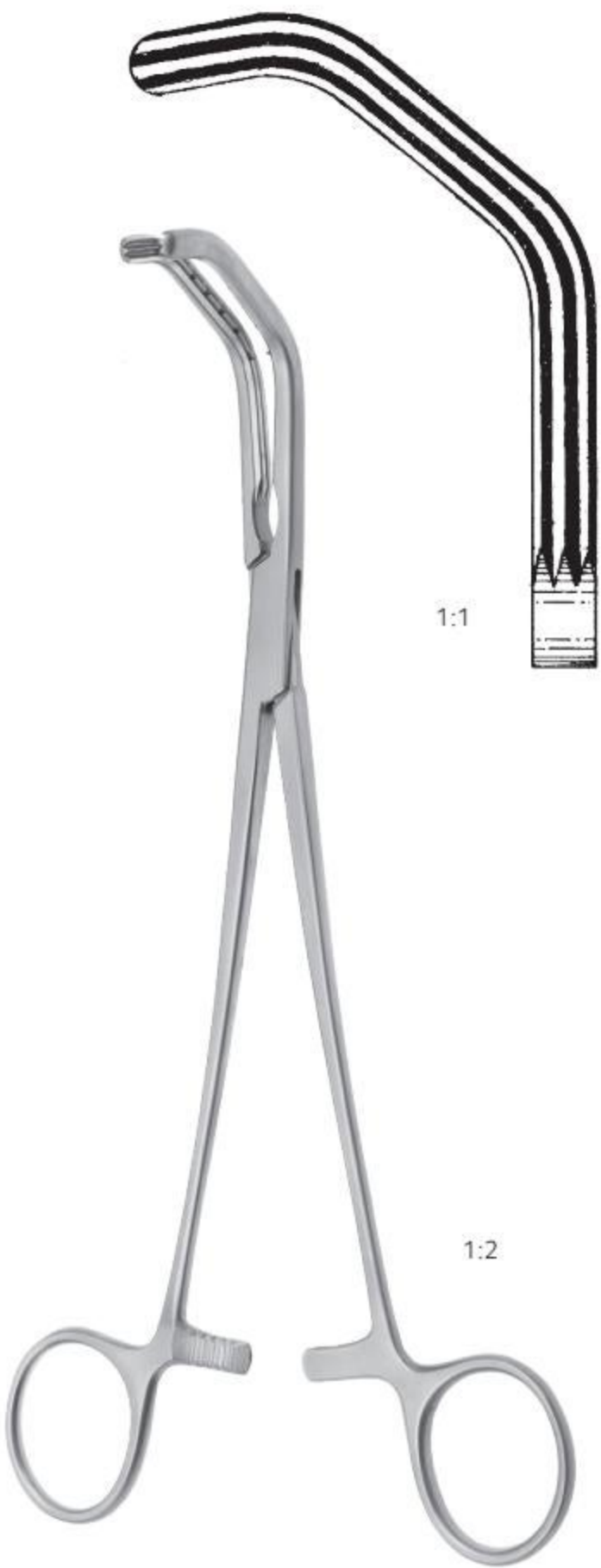
HACKELSTOCK LOOP CLAMPS |  
HACKELSTOCK UMFÜHRUNGSKLEMME

|        |
|--------|
| 240 MM |
| ZBZ-05 |



PRICE THOMAS BRONCHUS  
CLAMPS | PRICE THOMAS  
BRONCHUSKLEMMEN

|        |
|--------|
| 220 MM |
| MEX-7  |



WATERSTON DISSECTING CLAMPS |  
WATERSTON PRÄPARIERKLEMMEN

| 180 MM | 210 MM | 170 MM | 200 MM |
|--------|--------|--------|--------|
| DAY-7  | DAY-9  | DAY-6  | DAY-8  |





BABY-ADSON DISSECTING CLAMPS |  
BABY-ADSON PRÄPARIERKLEMMEN

| 185 MM |       | 140 MM |
|--------|-------|--------|
| DAZ-8  | DCG-8 | DAZ-7  |

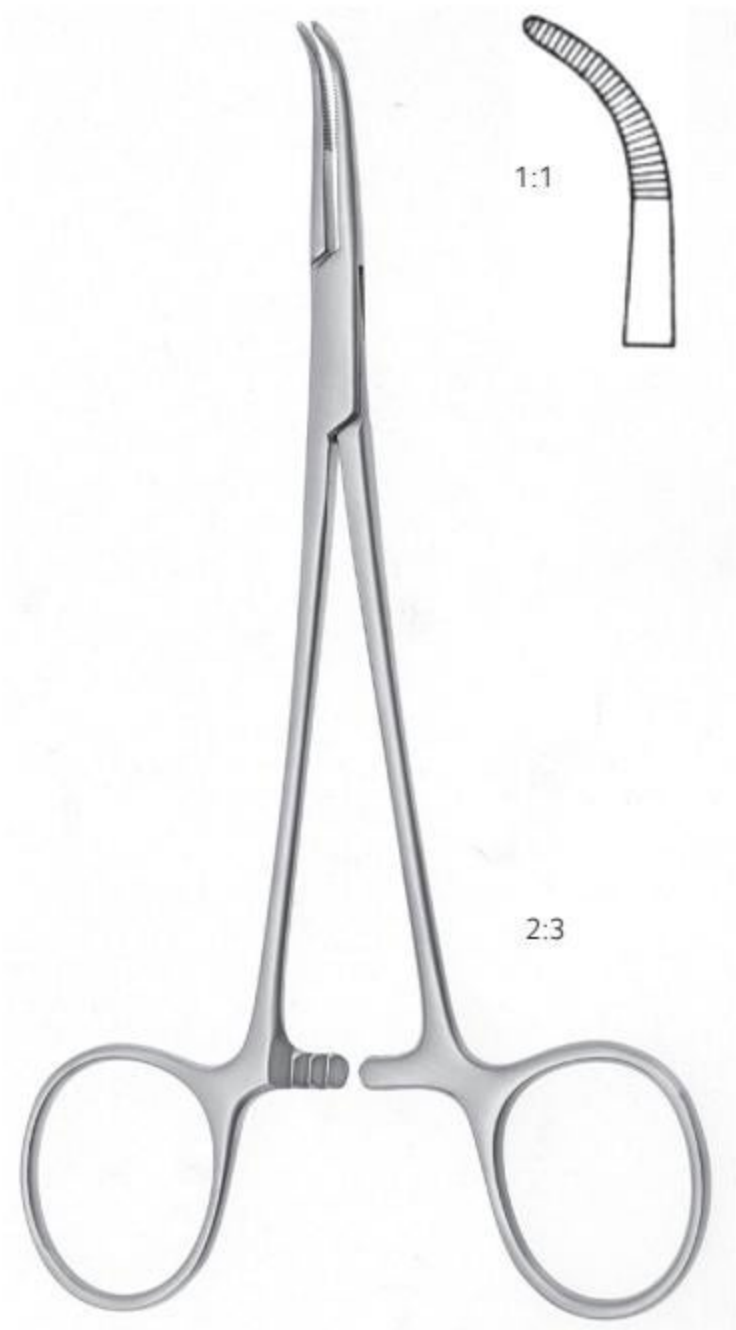


BABY-OVERHOLT DISSECTING CLAMPS |  
BABY-OVERHOLT PRÄPARIERKLEMMEN

| 135 MM |
|--------|
| DAV-1  |

BABY-MIXTER DISSECTING CLAMPS |  
BABY-MIXTER PRÄPARIERKLEMMEN

| 140 MM | 180 MM |
|--------|--------|
| DBA-1  | DBA-2  |





OVERHOLT-MIXTER  
DISSECTING CLAMPS |  
OVERHOLT-MIXTER  
PRÄPARIERKLEMMEN

|        |
|--------|
| 230 MM |
| DAX-9  |



HEISS DISSECTING CLAMPS |  
HEISS PRÄPARIERKLEMMEN

|        |
|--------|
| 200 MM |
| DAG-1  |

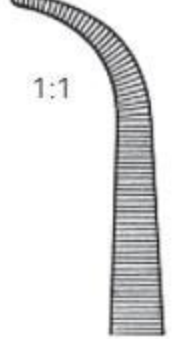
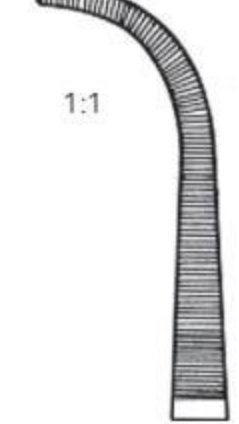
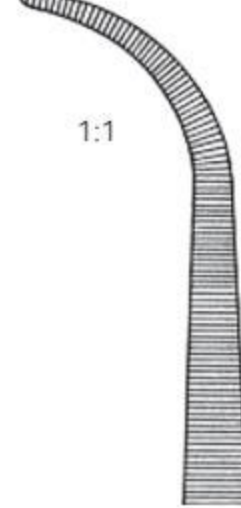
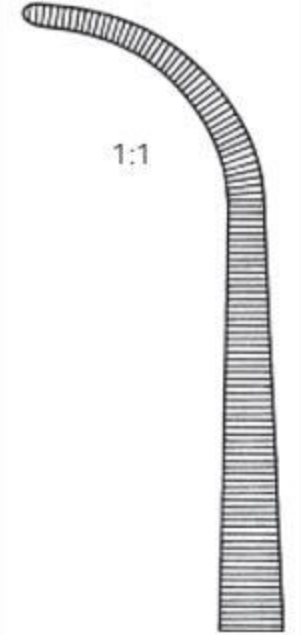
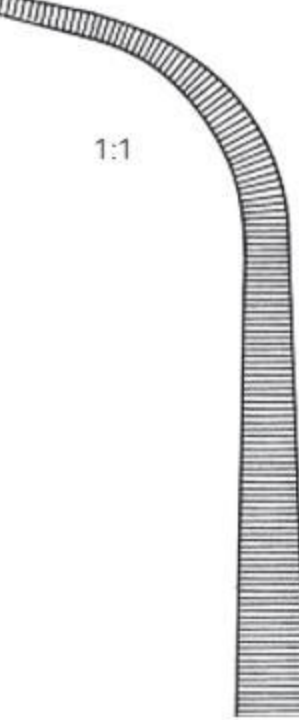
NISSEN DISSECTING CLAMPS |  
NISSEN PRÄPARIERKLEMMEN

|        |
|--------|
| 190 MM |
| DAL-6  |



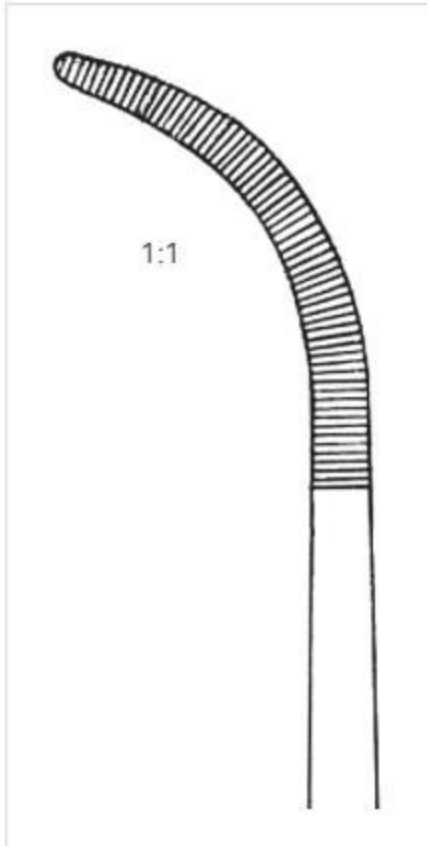
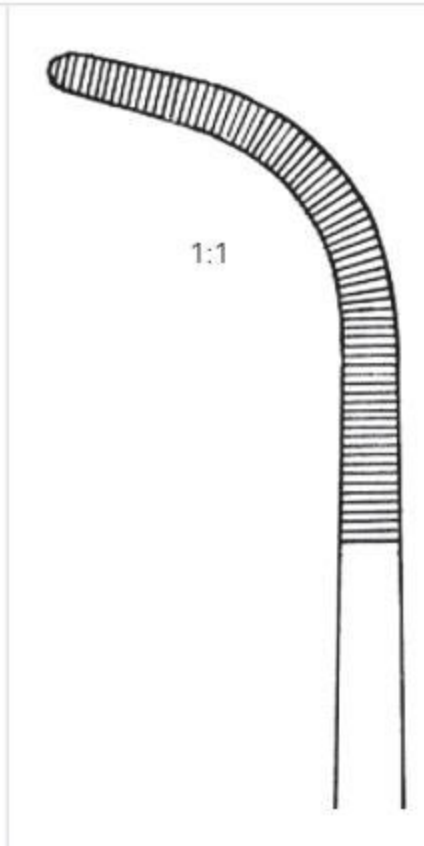
GEMINI DISSECTING CLAMPS |  
GEMINI PRÄPARIERKLEMMEN



|                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| 140 MM                                                                                | 180 MM                                                                                | 200 MM                                                                                | 230 MM                                                                                | 280 MM                                                                                |
| DAV-2                                                                                 | DAV-3                                                                                 | DAV-4                                                                                 | DAV-5                                                                                 | DAV-6                                                                                 |



RUMEL DISSECTING CLAMPS |  
RUMEL PRÄPARIERKLEMMEN

|                                                                                          |                                                                                          |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <br>1:1 | <br>1:1 |
| 240 MM                                                                                   | 240 MM                                                                                   |
| DBL-1                                                                                    | DBL-2                                                                                    |



MICRO MOSQUITO DISSECTING  
CLAMPS | MIKRO MOSQUITO  
PRÄPARIERKLEMMEN

| 100 MM | 120 MM |
|--------|--------|
| DBF-5  | DBG-1  |

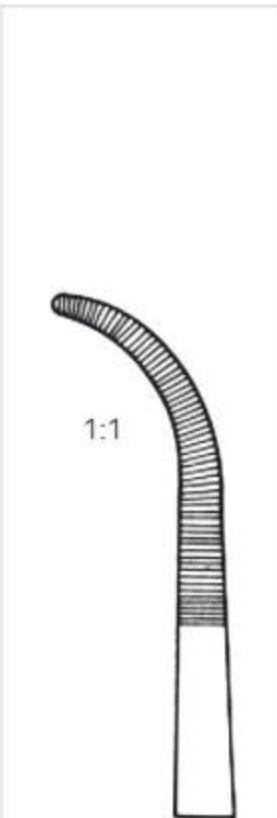
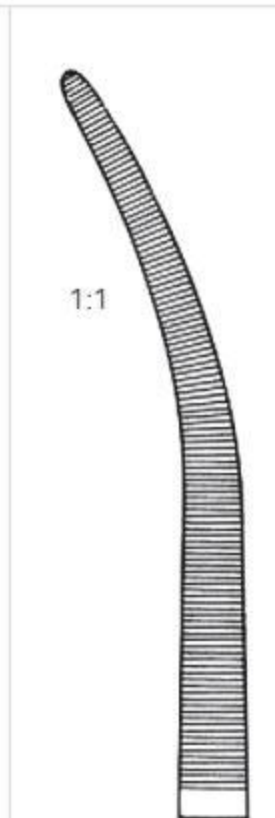
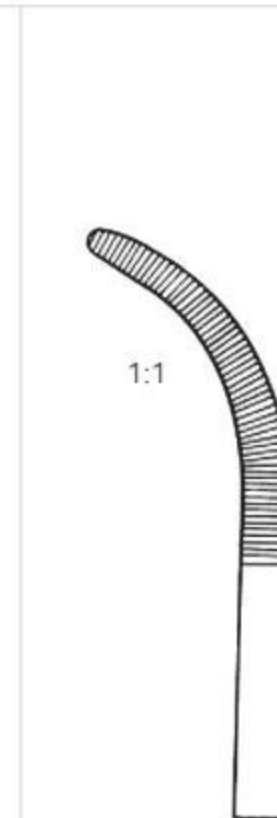


MICRO MOSQUITO DISSECTING  
CLAMPS | MIKRO MOSQUITO  
PRÄPARIERKLEMMEN

| 100 MM | 120 MM |
|--------|--------|
| DBF-4  | DBF-9  |



OVERHOLT-GEISSENDOERFER DISSECTING CLAMPS |  
OVERHOLT-GEISSENDOERFER PRÄPARIERKLEMMEN

|                                                                                              |                                                                                              |                                                                                              |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <br>1:1 | <br>1:1 | <br>1:1 |
| 190 MM                                                                                       | 225 MM                                                                                       | 215 MM                                                                                       |
| DAW-3                                                                                        | DAW-9                                                                                        | ZAL-7                                                                                        |



ZENKER DISSECTING CLAMPS |  
ZENKER PRÄPARIERKLEMMEN

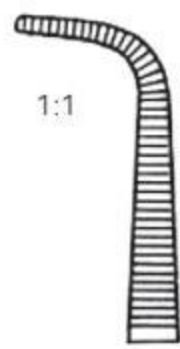
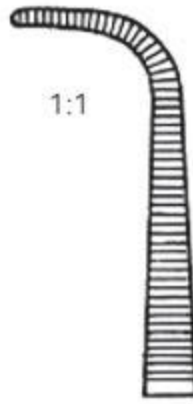
|        |
|--------|
| 285 MM |
| DBL-5  |



LIVERCLAMP |  
LEBERKLEMME

|        |
|--------|
| 260 MM |
| PAF-0  |

HEISS DISSECTING CLAMPS |  
HEISS PRÄPARIERKLEMMEN

|                                                                                            |                                                                                            |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <br>1:1 | <br>1:1 |
| 140 MM                                                                                     | 180 MM                                                                                     |
| DAD-6                                                                                      | DAD-7                                                                                      |



BENGOLEA DISSECTING CLAMPS |  
BENGOLEA PRÄPARIERKLEMMEN

1x2 teeth / Zähne

|        |
|--------|
| 240 MM |
| DAB-2  |



MILLS DISSECTING CLAMPS |  
MILLS PRÄPARIERKLEMMEN

|        |
|--------|
| 165 MM |
| MFF-8  |



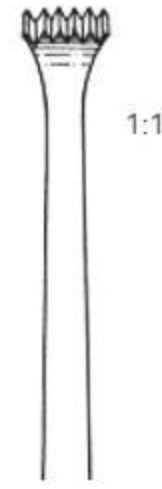
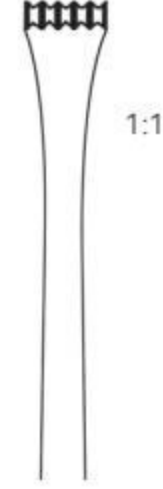
RUMEL DISSECTING CLAMPS |  
RUMEL PRÄPARIERKLEMMEN

|        |
|--------|
| 230 MM |
| ZAH-5  |





ALLIS ORGAN GRASPING FORCEPS |  
ALLIS ORGANFASSZANGEN

|                                                                                   |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |
| 1:1                                                                               | 1:1                                                                               | 1:1                                                                               |
| 5X6 TEETH / ZÄHNE                                                                 |                                                                                   |                                                                                   |
| 155 MM                                                                            | 190 MM                                                                            | 255 MM                                                                            |
| PAF-2                                                                             | PAF-3                                                                             | PAF-4                                                                             |



ALLIS NON TRAUMATIC ORGAN  
GRASPING FORCEPS | ALLIS  
ATRAUMATISCH ORGANFASSZANGEN

|        |
|--------|
| 230 MM |
| PAG-2  |



SCHEIBE ORGAN GRASPING  
FORCEPS | SCHEIBE  
ORGANFASSZANGEN

|        |
|--------|
| 230 MM |
| PAJ-5  |

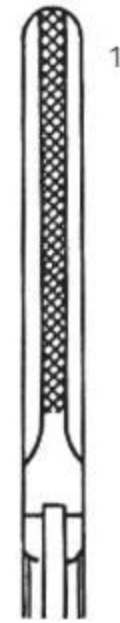
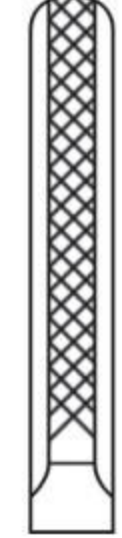
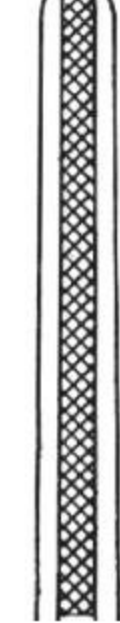


GROSS-MAIER SPONGE AND DRESSING FORCEPS | GROSS-MAIER KORN- UND TUPFERZANGEN

|        |
|--------|
| 260 MM |
| DBV-9  |



TUBING CLAMPS | SCHLAUCHKLEMMEN

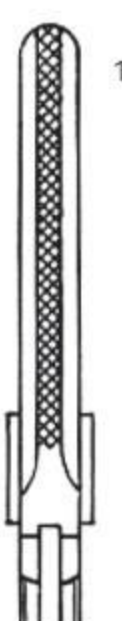
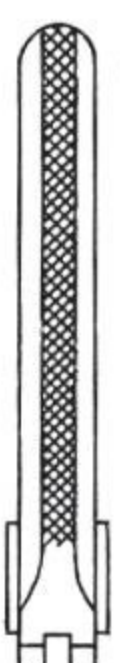
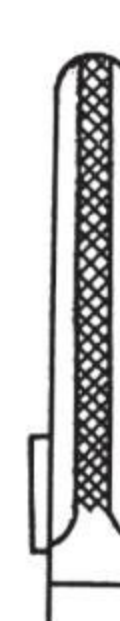
|                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |
| 1:1                                                                                 | 1:1                                                                                 | 1:1                                                                                 | 1:1                                                                                 |
| STANDARD                                                                            |                                                                                     | STRONG / STARK                                                                      |                                                                                     |
| 150 MM                                                                              | 180 MM                                                                              | 200 MM                                                                              | 200 MM                                                                              |
| ZAM-4                                                                               | ZAM-3                                                                               | DBM-2                                                                               | DCN-6                                                                               |



TUBING CLAMPS | SCHLAUCHKLEMMEN

With safety guard  
Mit Schutzbügel



|                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |
| 1:1                                                                                   | 1:1                                                                                   | 1:1                                                                                   | 1:1                                                                                   |
| STANDARD                                                                              |                                                                                       | STRONG / STARK                                                                        |                                                                                       |
| 155 MM                                                                                | 180 MM                                                                                | 200 MM                                                                                | 190 MM                                                                                |
| DCB-6                                                                                 | DCB-7                                                                                 | DCB-8                                                                                 | DCH-1                                                                                 |



TOWEL CLAMPS |  
TUCHKLEMMEN

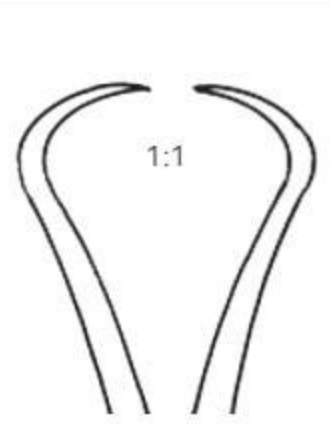
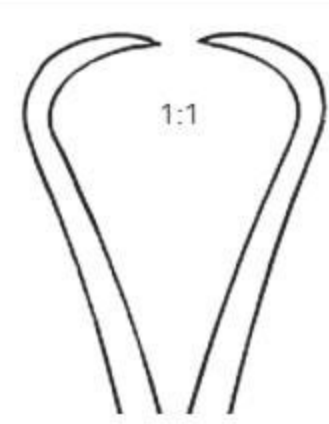
For paper towels  
Für Papiertücher

|                                                                                   |                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |  |
| 1:1                                                                               | 1:1                                                                               | 1:1                                                                                |
| 135 MM                                                                            | 145 MM                                                                            |                                                                                    |
| DBP-5                                                                             | DCM-7                                                                             | DCM-8*                                                                             |

\* For 1/2 inch tube  
\* Für 1/2 Zoll-Schlauch



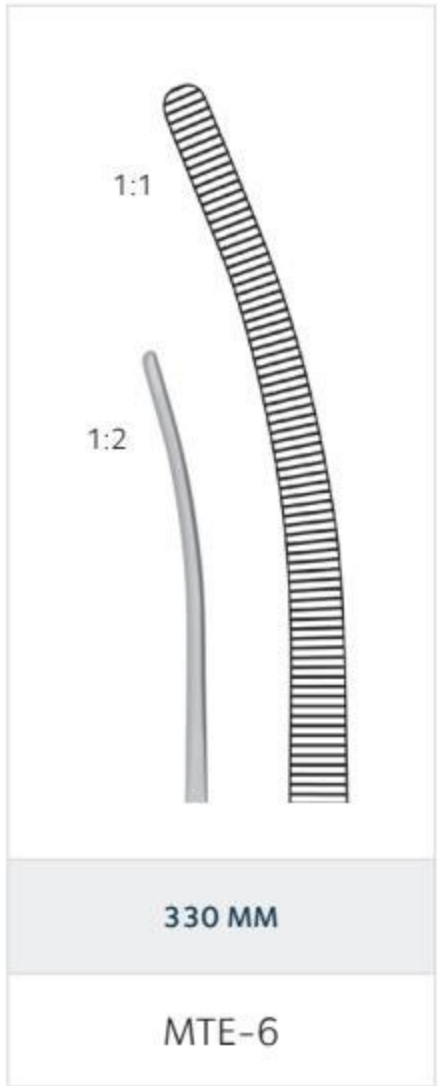
BACKHAUS TOWEL CLAMPS |  
BACKHAUS TUCHKLEMMEN

|                                                                                      |                                                                                      |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
| 1:1                                                                                  | 1:1                                                                                  |
| 110 MM                                                                               | 130 MM                                                                               |
| DBM-6                                                                                | DBM-7                                                                                |



MITHOS DISSECTING CLAMP |  
MITHOS DISSEKTIONSKLEMME

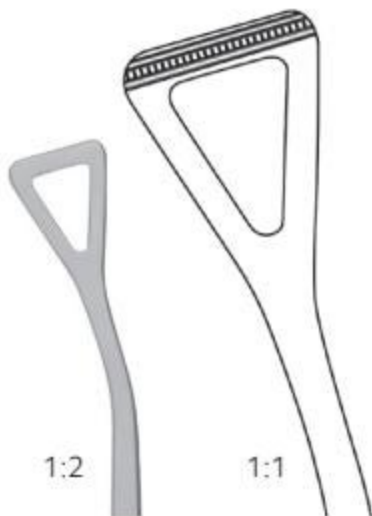
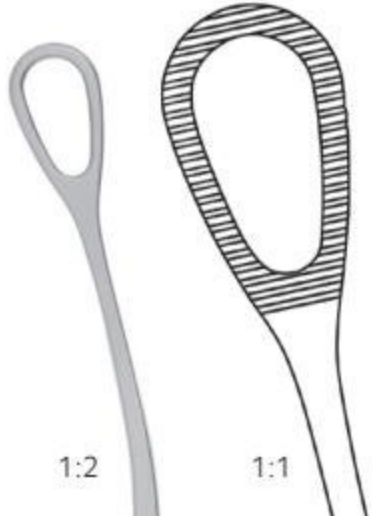
Closed/open  
Geschl./offen  
7 mm/8 mm



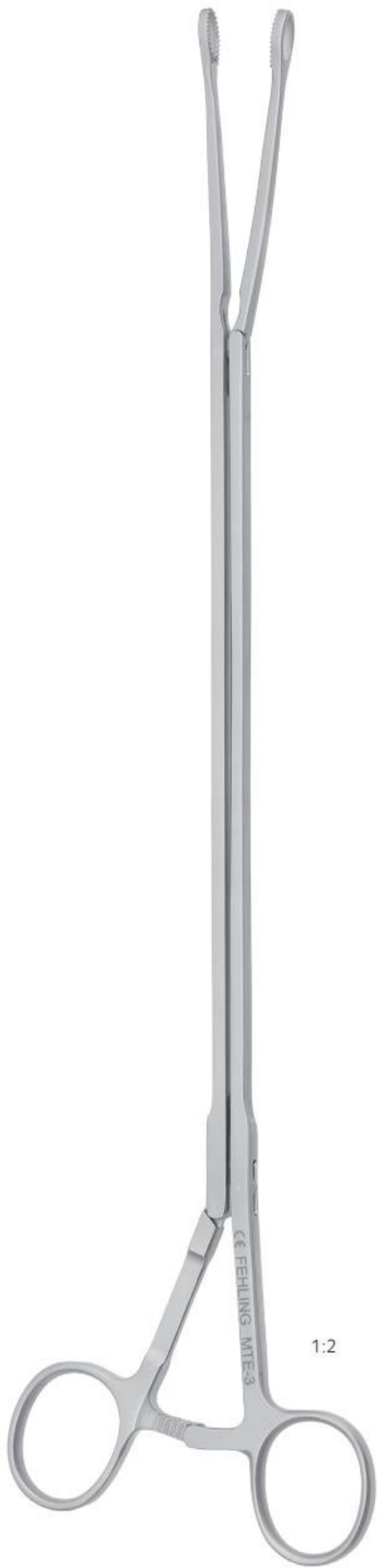
MITHOS FORCEPS |  
MITHOS KLEMMEN

Closed/open  
Geschl./offen  
10 mm/12 mm

|                               |        |
|-------------------------------|--------|
|                               |        |
| NON-TRAUMATIC<br>ATRAUMATISCH |        |
| 330 MM                        | 350 MM |
| WITHOUT LOCK<br>OHNE SPERRE   |        |
| MTE-7                         | MTF-3  |

|                                                                                                                        |                                                                                                                        |                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  <p>1:2      1:1</p> <p>14 MM</p> |  <p>1:2      1:1</p> <p>20 MM</p> |  <p>1:2      1:1</p> <p>12 MM</p> |
| GRASPING FORCEPS<br>FASSZANGE                                                                                          | LUNG GRASPING FORCEPS<br>LUNGENFASSZANGE                                                                               |                                                                                                                        |
| 340 MM                                                                                                                 | 350 MM                                                                                                                 |                                                                                                                        |
| WITH LOCK<br>MIT SPERRE                                                                                                |                                                                                                                        |                                                                                                                        |
| MTE-1                                                                                                                  | MTE-2                                                                                                                  | MTE-3 *                                                                                                                |

\* Closed 7 mm/open 8 mm  
\* Geschl. 7 mm/offen 8 mm



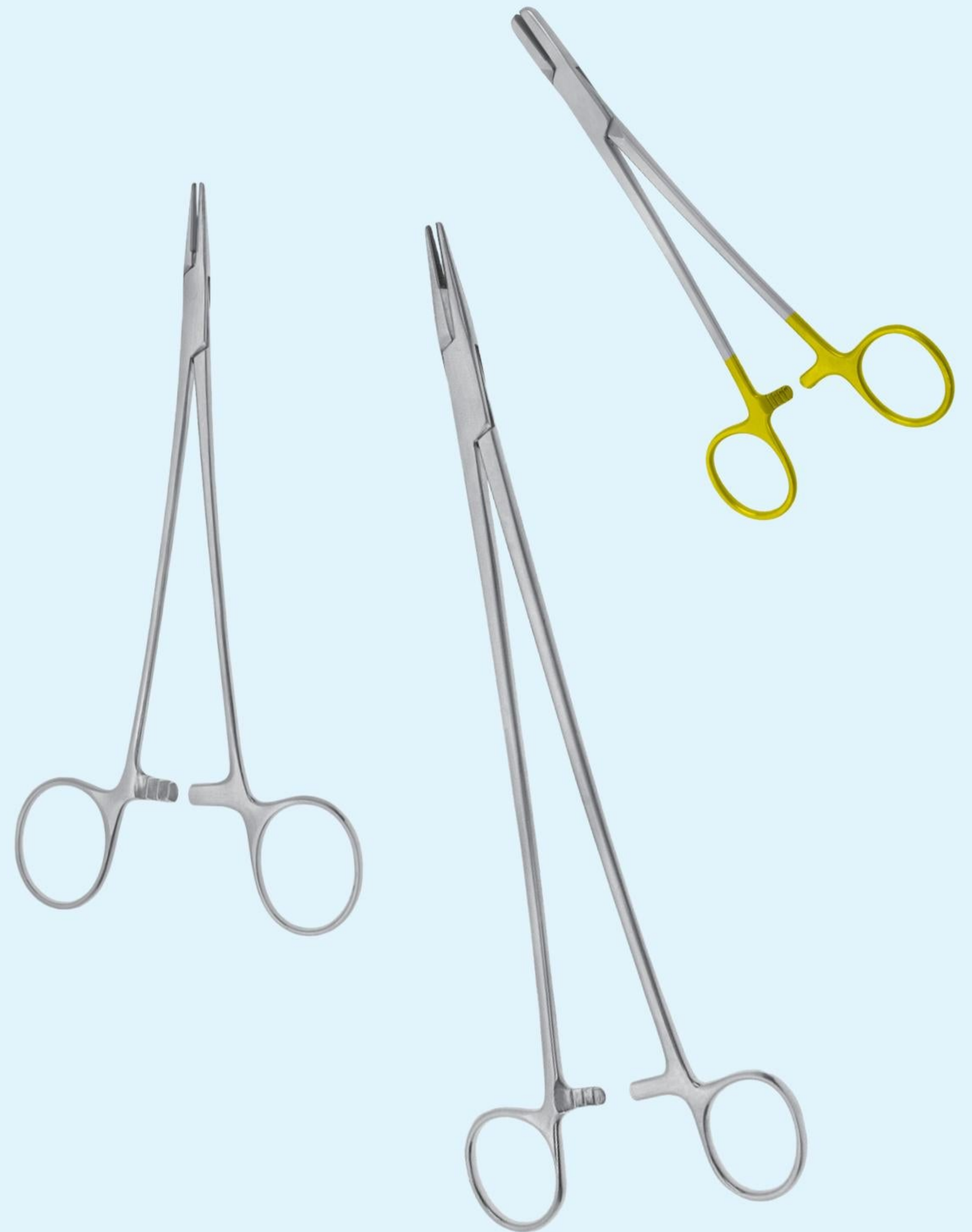


## NEEDLE HOLDERS

NADELHALTER

**180 Needle Holders** | Nadelhalter

**185 Suture Hooks** | Fadenfänger





TC DE BAKEY NEEDLE HOLDERS |  
TC DE BAKEY NADELHALTER

Max. 4x0

| LENGTH<br>LÄNGE | ART. NUMBER |
|-----------------|-------------|
| 165 mm          | KAG-8       |
| 180 mm          | KAG-9       |
| 200 mm          | KAH-1       |
| 230 mm          | KAH-2       |
| 260 mm          | KAH-3       |
| 310 mm          | KAH-4       |

Max. suture size / max. Fadenstärke



TC MAYO-HEGAR NEEDLE HOLDERS |  
TC MAYO-HEGAR NADELHALTER

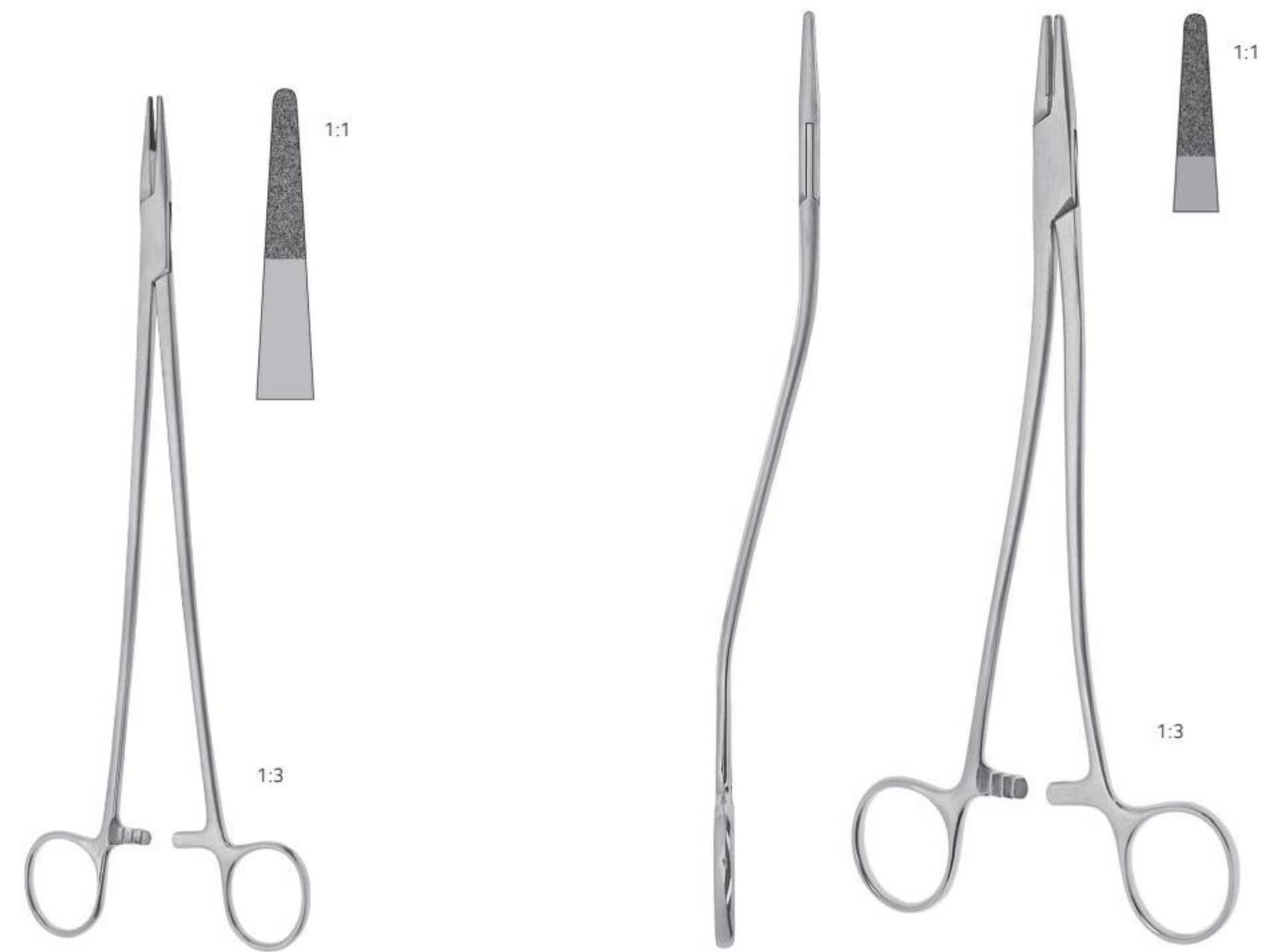
Max. 1x0  
Unlimited \*

| LENGTH<br>LÄNGE |  1:1  1:1 |                                   |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
|                 | STANDARD                                                                                                                                                                          | STRONG PATTERNS<br>STARKE MODELLE |
| 160 mm          | KAP-5                                                                                                                                                                             |                                   |
| 180 mm          | KAP-6                                                                                                                                                                             | KAL-0 *                           |
| 200 mm          | KAP-7                                                                                                                                                                             |                                   |
| 240 mm          | KAP-8                                                                                                                                                                             | KCP-5 *                           |
| 280 mm          | KAP-9                                                                                                                                                                             |                                   |
| 300 mm          | KAR-1                                                                                                                                                                             |                                   |

Max. suture size / max. Fadenstärke







TC WANGENSTEEN NEEDLE HOLDERS |  
TC WANGENSTEEN NADELHALTER

Max. 1x0

| LENGTH<br>LÄNGE | ART. NUMBER |
|-----------------|-------------|
| 275 mm          | KAV-5       |

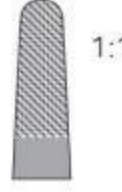
Max. suture size / max. Fadenstärke

TC WERTHEIM NEEDLE HOLDERS |  
TC WERTHEIM NADELHALTER

Max. 1x0

| LENGTH<br>LÄNGE | ART. NUMBER |
|-----------------|-------------|
| 300 mm          | KBG-0       |

TC WIRE TWISTING FORCEPS |  
TC DRAHTSPINNZANGE

|                                                                                              |                                                                                             |
|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <br>1:1 | <br>1:1 |
| 155 MM                                                                                       | 185 MM                                                                                      |
| KAJ-6                                                                                        | KAJ-5                                                                                       |





TC FORTISSIMO NEEDLE HOLDERS |  
TC FORTISSIMO NADELHALTER

| LENGTH<br>LÄNGE | ART. NUMBER |
|-----------------|-------------|
| 200 mm          | KBW-2       |

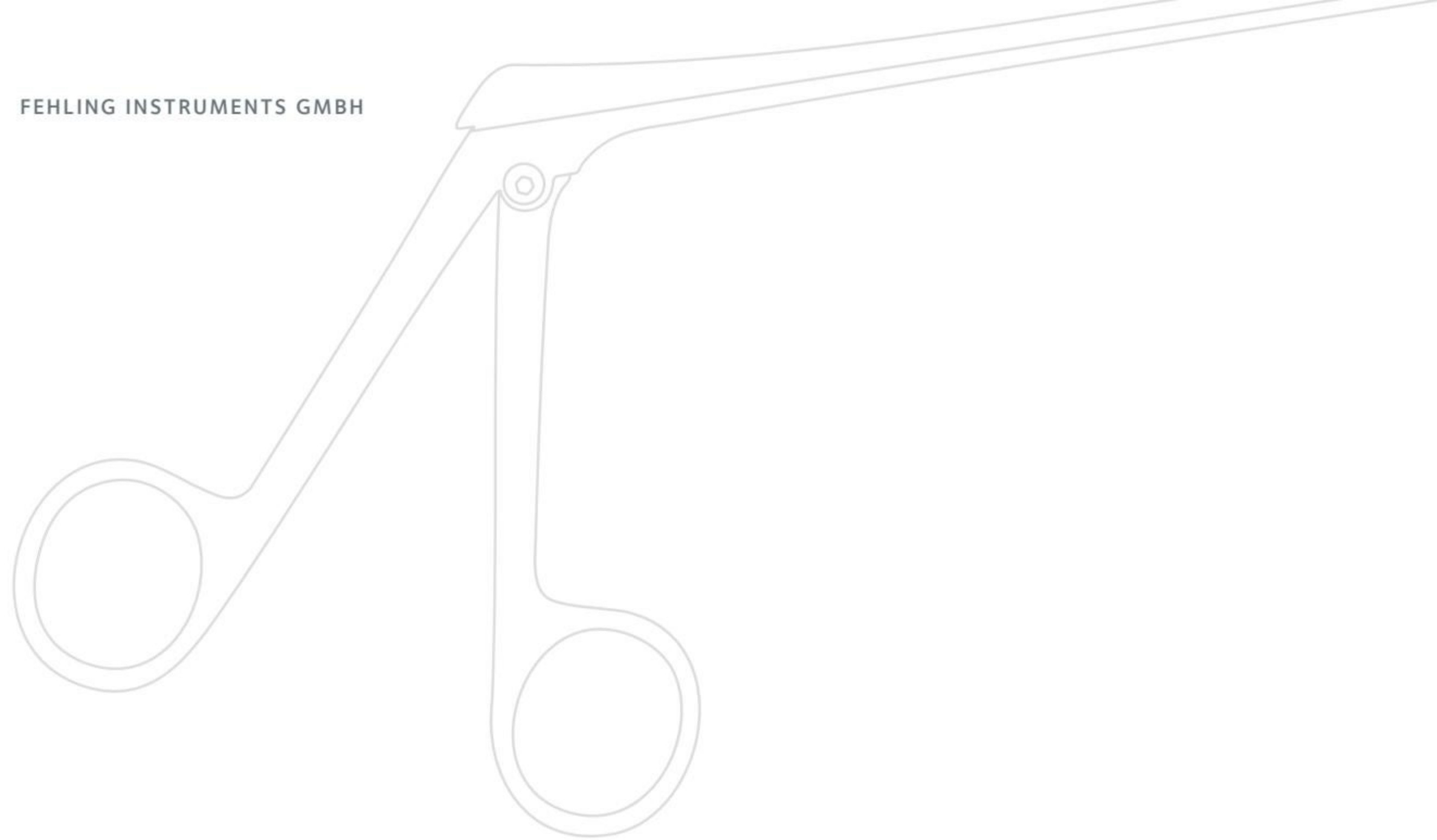


SUTURE HOOK |  
FADENFÄNGER

|                 |  1:1 |  1:1 |  1:1 |  1:1 |  1:1 |
|-----------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| LENGTH<br>LÄNGE | 1.2 MM                                                                                   | 1.5 MM                                                                                   | 2.0 MM                                                                                   | 2.5 MM                                                                                   | 3.0 MM                                                                                   |
| 150 mm          |                                                                                          | KCC-1                                                                                    |                                                                                          |                                                                                          |                                                                                          |
| 260 mm          | KAA-4                                                                                    | KAA-6                                                                                    | KAA-7                                                                                    | KCA-7                                                                                    | KAA-8                                                                                    |
| 280 mm          |                                                                                          |                                                                                          |                                                                                          | KCB-9                                                                                    |                                                                                          |







## PUNCHES AND RONGEURS

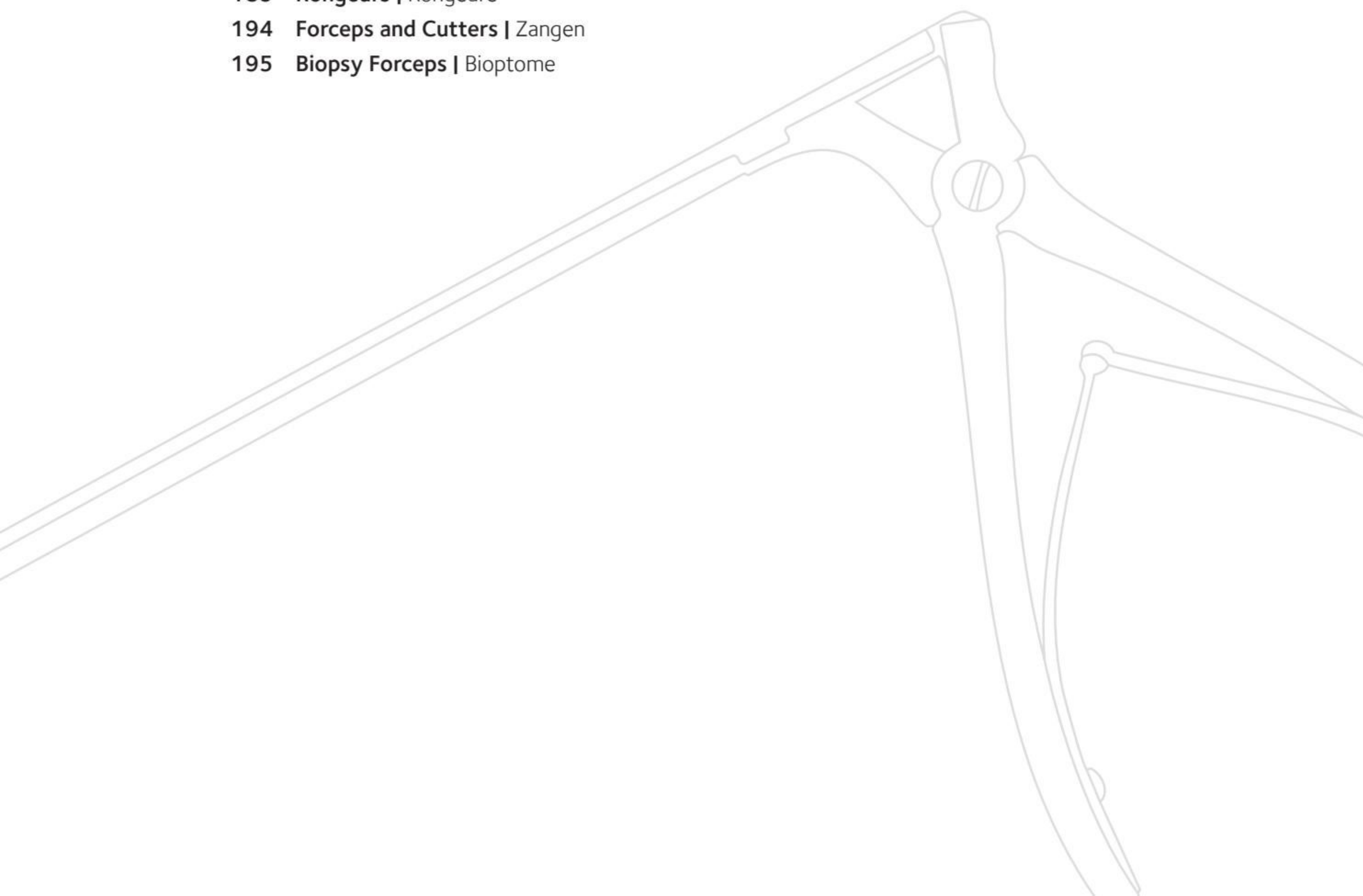
### STANZEN UND RONGEURE

188 Aortic Punches | Aortenstanzen

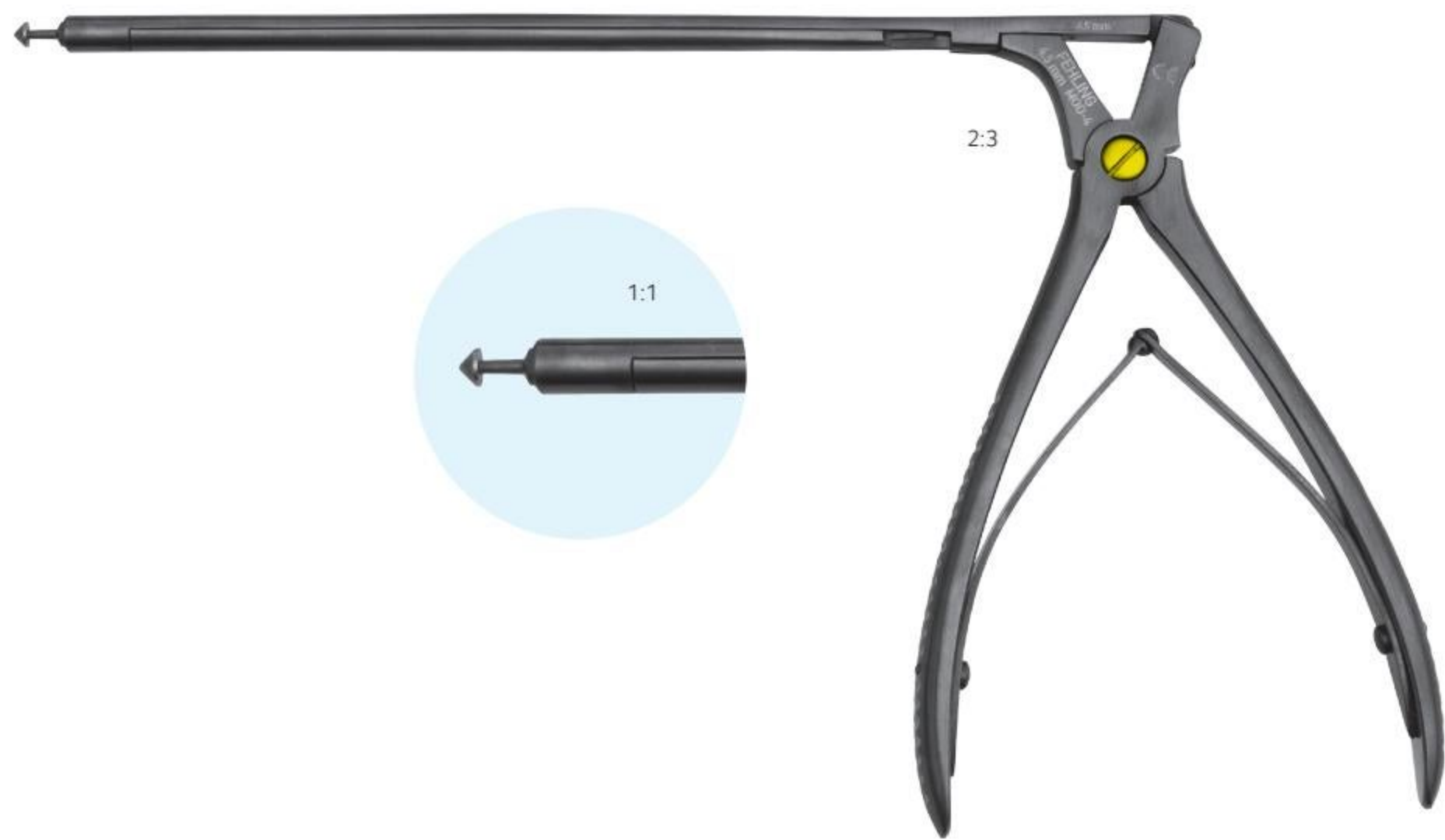
189 Rongeurs | Rongeurs

194 Forceps and Cutters | Zangen

195 Biopsy Forceps | Biopptome





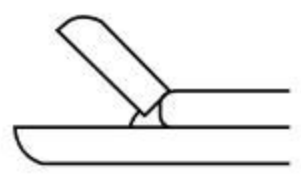


CERAMO® AORTIC PUNCH |  
CERAMO® AORTENSTANZE

| Ø<br>BLADE / MESSER | LENGTH<br>LÄNGE |        |
|---------------------|-----------------|--------|
|                     | 130 MM          | 195 MM |
| 3.5 MM              | MOE-2           | MOD-2  |
| 4.0 MM              | MOE-3           | MOD-3  |
| 4.5 MM              | MOE-4           | MOD-4  |
| 5.0 MM              |                 | MOD-5  |



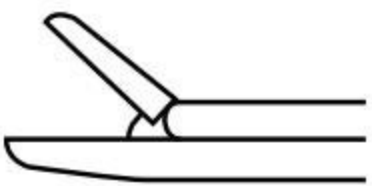
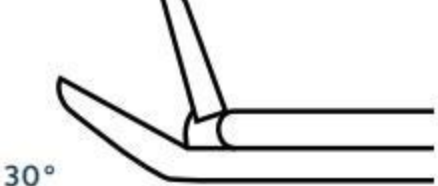
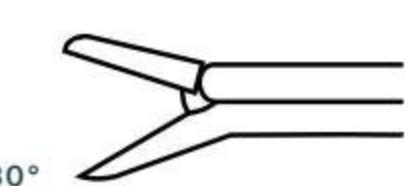
CERAMO® FERRIS-SMITH RONGEUR |  
CERAMO® FERRIS-SMITH RONGEURE

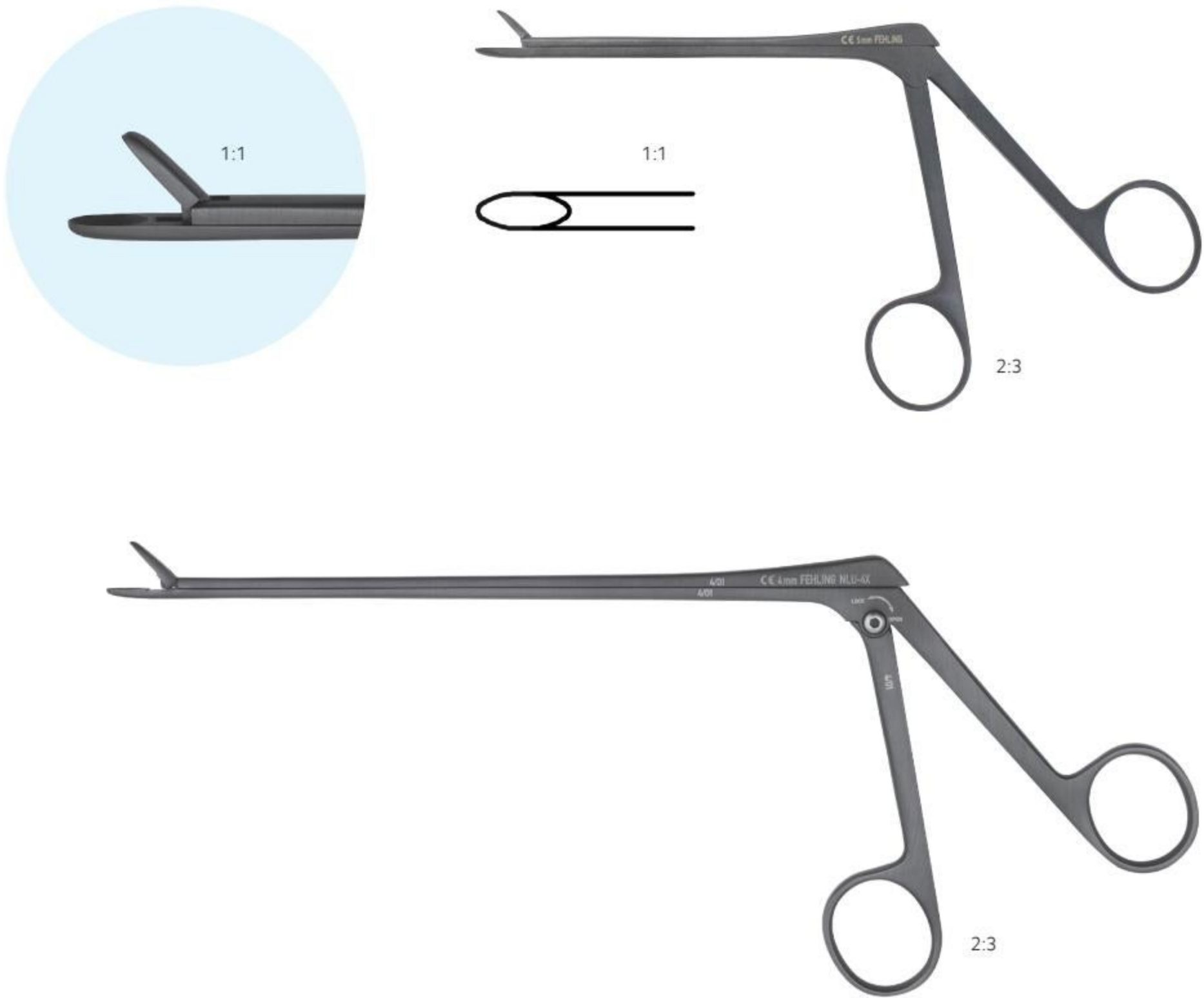
| WIDTH<br>BREITE | LENGTH<br>LÄNGE |  |  |
|-----------------|-----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                 |                 | ART. NUMBER                                                                           |                                                                                       |
| 3.0 mm          | 200 mm          | TOG-1                                                                                 | TOH-1                                                                                 |
| 4.0 mm          | 200 mm          | TOG-2                                                                                 | TOH-2                                                                                 |
| 5.0 mm          | 200 mm          | TOG-3                                                                                 | TOH-3                                                                                 |



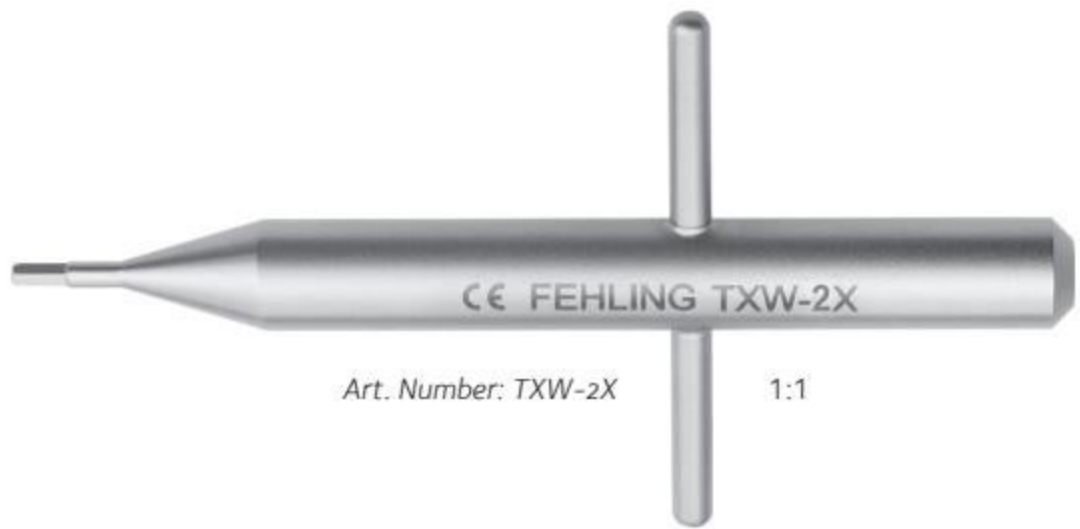
CERAMO® GRUMME AND GRUMME X RONGEURS | CERAMO® GRUMME UND GRUMME X RONGEURE

Grumme X is detachable.  
Grumme X ist zerlegbar.

| JAW WIDTH<br>MAULBREITE | LENGTH<br>LÄNGE |  |          |  |          |  |          |
|-------------------------|-----------------|-----------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|----------|
|                         |                 | GRUMME                                                                            | GRUMME X | GRUMME                                                                             | GRUMME X | GRUMME                                                                              | GRUMME X |
| 2.0 mm                  | 120 mm          |                                                                                   | NLO-2X   |                                                                                    |          |                                                                                     |          |
|                         | 160 mm          | NLT-2                                                                             | NLT-2X   | NLT-6                                                                              | NLT-6X   | NLV-2                                                                               | NLV-2X   |
|                         | 180 mm          | NLU-2                                                                             | NLU-2X   | NLU-6                                                                              | NLU-6X   | NLV-6                                                                               | NLV-6X   |
|                         | 200 mm          | NLX-2                                                                             | NLX-2X   | NLX-6                                                                              | NLX-6X   |                                                                                     |          |
|                         | 250 mm          | NLW-2                                                                             | NLW-2X   |                                                                                    |          |                                                                                     |          |
| 3.0 mm                  | 120 mm          |                                                                                   | NLO-3X   |                                                                                    |          |                                                                                     |          |
|                         | 160 mm          | NLT-3                                                                             | NLT-3X   | NLT-7                                                                              | NLT-7X   | NLV-3                                                                               | NLV-3X   |
|                         | 180 mm          | NLU-3                                                                             | NLU-3X   | NLU-7                                                                              | NLU-7X   | NLV-7                                                                               | NLV-7X   |
|                         | 200 mm          | NLX-3                                                                             | NLX-3X   | NLX-7                                                                              |          |                                                                                     |          |
|                         | 250 mm          | NLW-3                                                                             | NLW-3X   |                                                                                    | NMJ-9X   |                                                                                     |          |
| 4.0 mm                  | 120 mm          |                                                                                   | NLO-4X   |                                                                                    |          |                                                                                     |          |
|                         | 160 mm          | NLT-4                                                                             | NLT-4X   | NLT-8                                                                              | NLT-8X   | NLV-4                                                                               |          |
|                         | 180 mm          | NLU-4                                                                             | NLU-4X   | NLU-8                                                                              | NLU-8X   | NLV-8                                                                               | NLV-8X   |
|                         | 200 mm          | NLX-4                                                                             | NLX-4X   | NLX-8                                                                              | NLX-8X   |                                                                                     |          |
|                         | 250 mm          | NLW-4                                                                             | NLW-4X   |                                                                                    |          |                                                                                     |          |
| 5.0 mm                  | 120 mm          |                                                                                   | NLO-5X   |                                                                                    |          |                                                                                     |          |
|                         | 160 mm          | NLT-5                                                                             | NLT-5X   |                                                                                    |          |                                                                                     |          |
|                         | 180 mm          | NLU-5                                                                             | NLU-5X   | NLU-9                                                                              | NLU-9X   | NLV-9                                                                               | NLV-9X   |
|                         | 200 mm          | NLX-5                                                                             | NLX-5X   | NLX-9                                                                              | NLX-9X   |                                                                                     |          |
|                         | 250 mm          | NLW-5                                                                             | NLW-5X   |                                                                                    |          |                                                                                     |          |
| 6.0 mm                  | 120 mm          |                                                                                   | NLO-0X   |                                                                                    |          |                                                                                     |          |
|                         | 250 mm          | NLW-6                                                                             | NLW-6X   |                                                                                    |          |                                                                                     |          |



ACCESSORIES FOR GRUMME X RONGEURS  
ZUBEHÖR FÜR GRUMME X RONGEURE



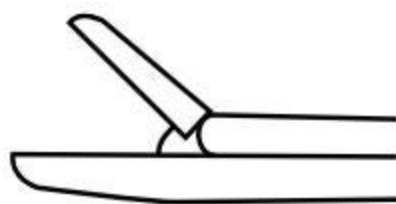
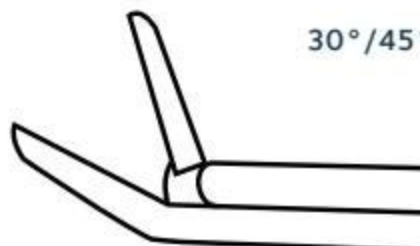
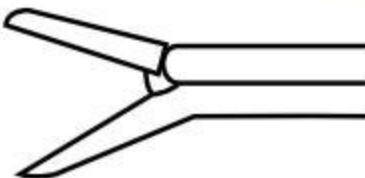
SCREWDRIVER STERILISABLE | SCHRAUBENDREHER STERILISIERBAR

| ART. NUMBER |
|-------------|
| TXW-2X      |

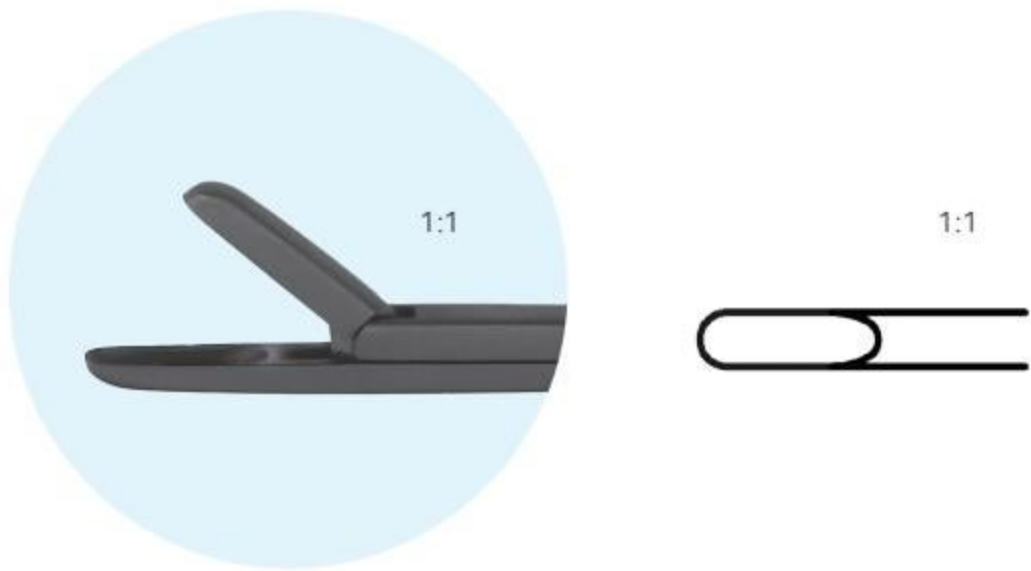


CERAMO® LOVE-GRUENWALD AND LOVE-GRUENWALD X RONGEURS | CERAMO® LOVE-GRUENWALD UND LOVE-GRUENWALD X RONGEURE

Love-Gruenwald X is detachable.  
Love-Gruenwald X ist zerlegbar.

| JAW WIDTH<br>MAULBREITE | LENGTH<br>LÄNGE |  |                  |  30°/45° |  30°/45° |                       |
|-------------------------|-----------------|-----------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------|
|                         |                 | LOVE-GRUENWALD                                                                    | LOVE-GRUENWALD X | LOVE-GRUENWALD                                                                             | LOVE-GRUENWALD                                                                              | LOVE-GRUENWALD X      |
| 1.0 mm                  | 180 mm          | NMM-1                                                                             |                  | NMN-1                                                                                      | NMO-1                                                                                       |                       |
|                         | 200 mm          | NLP-1                                                                             |                  |                                                                                            |                                                                                             |                       |
| 2.0 mm                  | 160 mm          | NMJ-2                                                                             |                  | NMK-2                                                                                      |                                                                                             |                       |
|                         | 180 mm          | NMM-2                                                                             |                  | NMN-2                                                                                      | NMO-2                                                                                       |                       |
|                         | 250 mm          | NMP-2                                                                             | NMP-2X           | NMQ-2                                                                                      | NMR-2                                                                                       |                       |
|                         | 300 mm          | NMW-9                                                                             |                  | NMW-7 <sup>45°</sup>                                                                       | NMW-8 <sup>45°</sup>                                                                        |                       |
|                         | 400 mm          |                                                                                   |                  | NMT-6 <sup>45°</sup>                                                                       | NMT-8 <sup>45°</sup>                                                                        |                       |
| 3.0 mm                  | 160 mm          | NMJ-3                                                                             |                  | NMK-3                                                                                      |                                                                                             |                       |
|                         | 180 mm          | NMM-3                                                                             |                  | NMN-3                                                                                      | NMO-3                                                                                       |                       |
|                         | 250 mm          | NMP-3                                                                             | NMP-3X           | NMQ-3                                                                                      | NMR-3                                                                                       |                       |
|                         | 300 mm          | NMW-3                                                                             |                  | NMW-1 <sup>45°</sup>                                                                       | NMW-2 <sup>45°</sup>                                                                        |                       |
|                         | 400 mm          |                                                                                   |                  | NMT-7 <sup>45°</sup>                                                                       | NMT-9 <sup>45°</sup>                                                                        |                       |
| 4.0 mm                  | 160 mm          | NMJ-4                                                                             |                  | NMK-4                                                                                      |                                                                                             |                       |
|                         | 180 mm          | NMM-4                                                                             | NMM-4X           | NMN-4                                                                                      | NMO-4                                                                                       |                       |
|                         | 250 mm          | NMP-4                                                                             | NMP-4X           | NMQ-4                                                                                      | NMR-4                                                                                       |                       |
|                         | 300 mm          | NMU-5                                                                             |                  | NMU-1 <sup>45°</sup>                                                                       | NMU-2 <sup>45°</sup>                                                                        |                       |
|                         | 400 mm          |                                                                                   |                  | NMU-3 <sup>45°</sup>                                                                       | NMU-4 <sup>45°</sup>                                                                        |                       |
| 5.0 mm                  | 160 mm          | NMJ-5                                                                             |                  | NMK-5                                                                                      |                                                                                             |                       |
|                         | 180 mm          | NMM-5                                                                             | NMM-5X           | NMN-5                                                                                      | NMO-5                                                                                       |                       |
|                         | 250 mm          | NMP-5                                                                             | NMP-5X           | NMQ-5                                                                                      | NMR-5                                                                                       |                       |
|                         | 300 mm          | NMW-6                                                                             |                  | NMW-4 <sup>45°</sup>                                                                       | NMW-5 <sup>45°</sup>                                                                        |                       |
|                         | 400 mm          |                                                                                   |                  | NMU-8 <sup>45°</sup>                                                                       | NMU-9 <sup>45°</sup>                                                                        | NMU-9X <sup>45°</sup> |

All rongeurs with length 300 and 400 mm are graduated.  
Alle rongeurs in den Längen 300 und 400 mm sind graduert.





TC WIRE CUTTING FORCEPS |  
TC DRAHTKNEIFZANGE

LAF-1  
175 mm

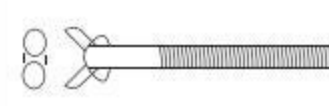
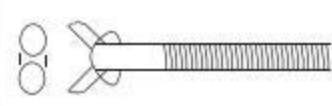
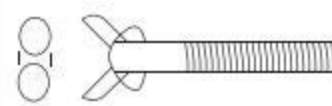


STERNUM WIRE AND STRIP CUTTER |  
STERNUMDRAHT- UND BANDZANGE

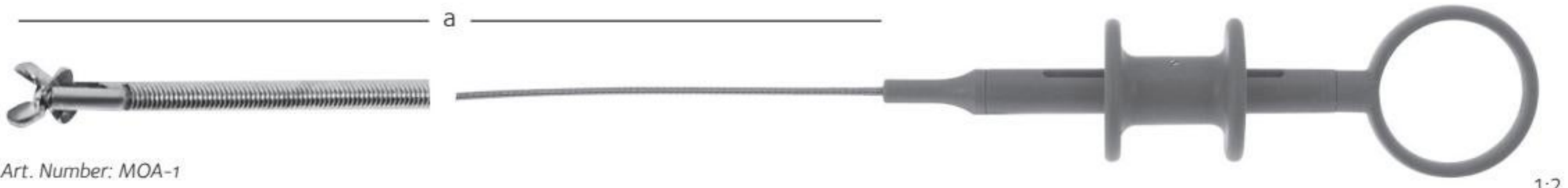
LGJ-5  
155 mm



STERILE SINGLE USE BIOPSY FORCEPS |  
STERILE EINMALBIOPTOME

|                                        | <br>1.6 MM | <br>1.8 MM | <br>2.2 MM |
|----------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| LENGTH OF SHAFT (a)<br>SCHAFTLÄNGE "a" | ART. NUMBER                                                                                   |                                                                                               |                                                                                               |
| 510 mm                                 | MOA-1                                                                                         | MOA-5                                                                                         | MOA-9                                                                                         |
| 800 mm                                 | MOA-2                                                                                         |                                                                                               |                                                                                               |
| 1000 mm                                | MOA-3                                                                                         | MOA-7                                                                                         |                                                                                               |
| 1200 mm                                | MOA-4                                                                                         | MOA-8                                                                                         | MOB-1                                                                                         |
|                                        |                                                                                               | MOB-5 *                                                                                       |                                                                                               |

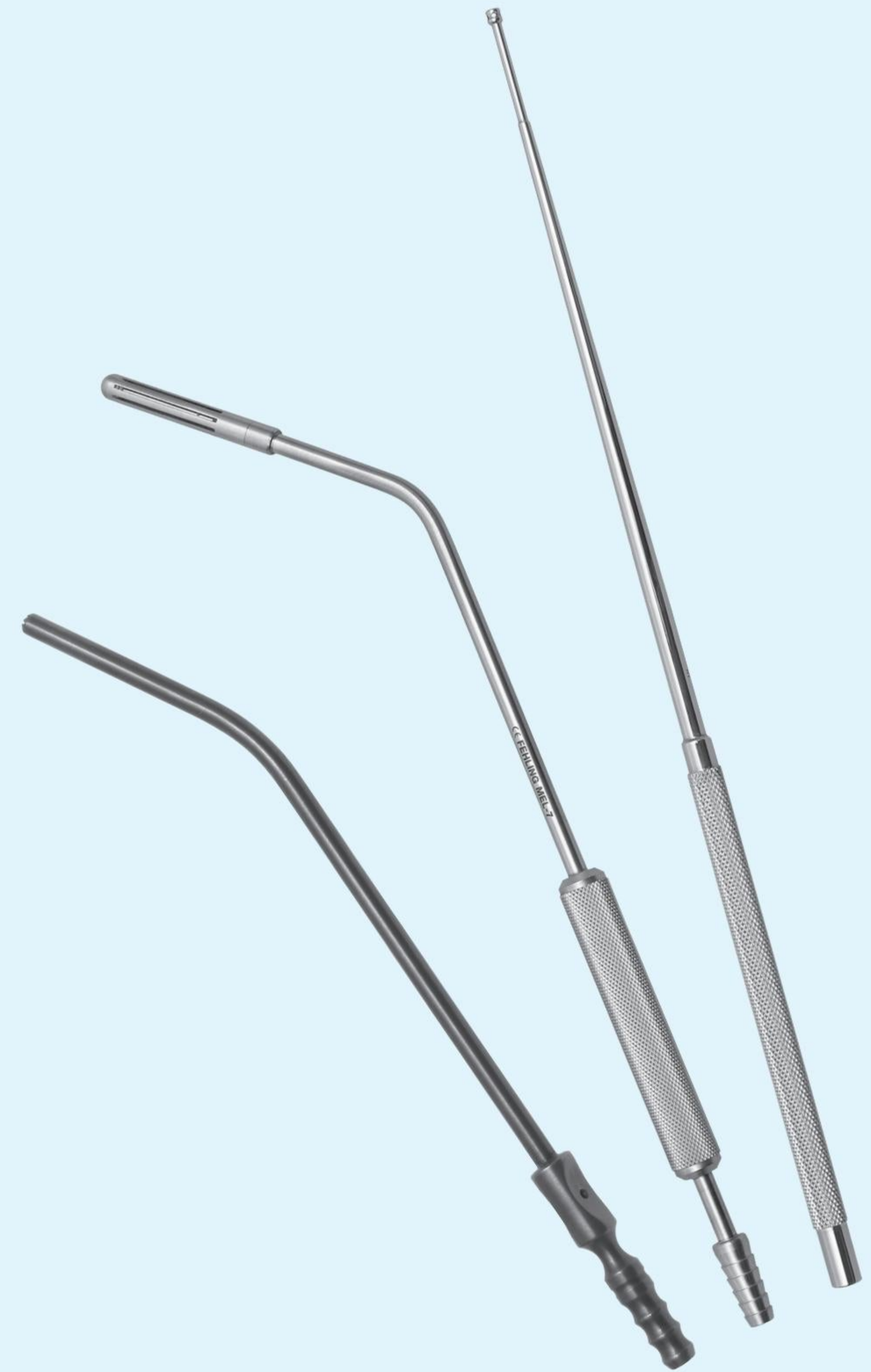
\* Soft shaft  
\* Weiche Schaft





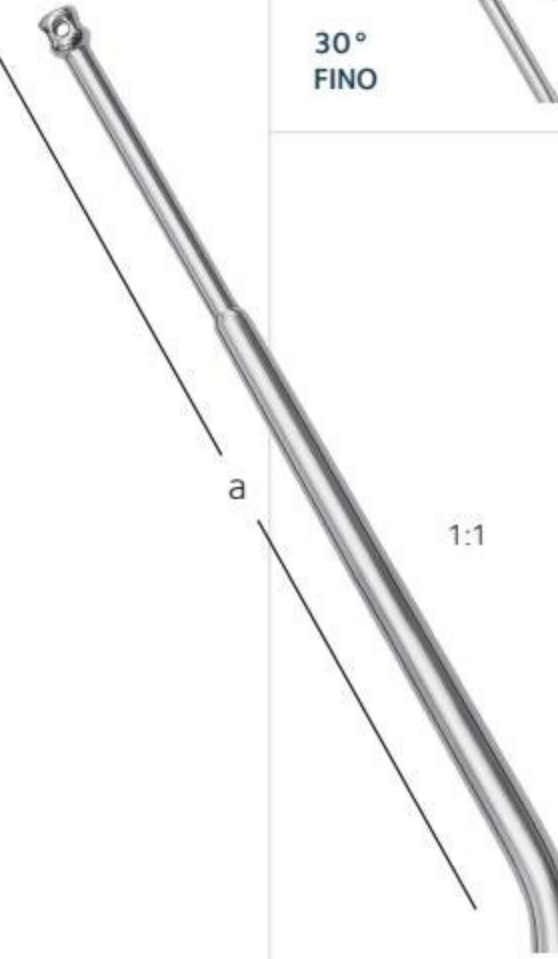
# SUCTION INSTRUMENTS

SAUGINSTRUMENTE





JAMIESON DISSECTION CANNULAS |  
JAMIESON DISSEKTIONSSAUGER

|                                                                                                                  | Ø<br>HOLE / BALL<br>LOCH / KUGEL | LENGTH<br>LÄNGE     |     |       |
|------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------|-----|-------|
|                                                                                                                  |                                  |                     |     |       |
| <br>1:1                         | 0.5 mm                           | 270 mm              |     | MMT-1 |
|                                                                                                                  | 1.0 mm                           | 210 mm              |     | MNF-0 |
|                                                                                                                  |                                  | 270 mm              |     | MNF-6 |
|                                                                                                                  | 1.5 mm                           | 270 mm              |     | MMA-7 |
| <br>60°<br>1:1                  | 1.0 mm                           | 260 mm              |     | MMC-0 |
| <br>- 10 mm -<br>90°<br>1:1    | 1.5 mm                           | 270 mm              |     | MME-5 |
| <br>2:1<br>1:1<br>FINO        | 1.5 mm                           | 290 mm              |     | MME-1 |
| <br>2:1<br>1:1<br>30°<br>FINO | 1.5 mm                           | 290 mm              |     | MME-2 |
| <br>1:1<br>a                  | 0.5 mm                           | a = 70 mm<br>270 mm | 15° | MME-3 |
|                                                                                                                  |                                  |                     | 30° | MMJ-0 |
|                                                                                                                  | 1.0 mm                           | a = 60 mm<br>270 mm | 30° | MMJ-6 |
|                                                                                                                  | 1.0 mm                           | a = 70 mm<br>270 mm | 15° | MME-4 |
|                                                                                                                  |                                  |                     | 30° | MMB-0 |
|                                                                                                                  |                                  |                     |     |       |



2:3

VALVULAR SUCTION TUBE |  
SAUGER FÜR KLAPPENCHIRURGIE

|         |
|---------|
| 350 MM* |
| MNO-8   |

\* Particularly for MICS MVR  
\* Speziell für MICS MKR/MKE



1:2

CERAMO® SUCTION CANNULA  
FOR VALVE DECALCIFICATION |  
CERAMO® ENTKALKUNGSSAUGER

Ø 6.0 mm

|        |
|--------|
| 240 MM |
| MNF-5  |



1:3





HLM-ASPIRATOR |  
HLM-SAUGER

|        |
|--------|
| 280 MM |
| MEL-7  |

SUCTION INSTRUMENT  
PEDIATRIC |  
OP-SAUGER KIND  
40°

|         |        |
|---------|--------|
| Ø<br>MM | 245 MM |
| 4.0     | MCE-8  |



SUCTION INSTRUMENT  
PEDIATRIC |  
OP-SAUGER KIND  
65°

|         |        |
|---------|--------|
| Ø<br>MM | 225 MM |
| 4.0     | MCE-9  |

PEDIATRIC ASPIRATOR |  
PÄDIATRISCHER SAUGER  
60°

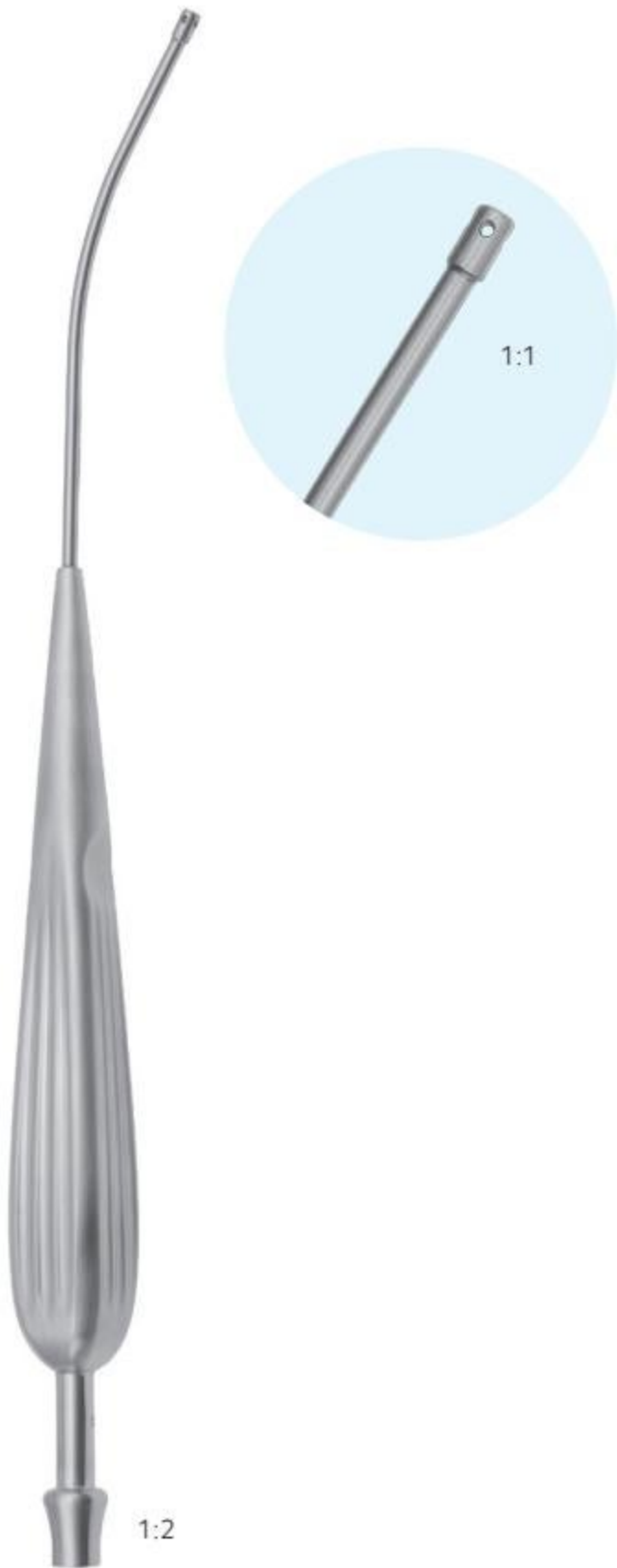
|         |        |
|---------|--------|
| Ø<br>MM | 210 MM |
| 3.0     | MNE-5  |





ANDREWS PYNCHON SUCTION PEDIATRIC |  
ANDREWS PYNCHON SAUGER PÄDIATRISCH

| LENGTH<br>LÄNGE | Ø<br>MM | ART. NUMBER |
|-----------------|---------|-------------|
| 240 mm          | 3.0     | MNO-4       |
|                 | 4.2     | MNO-5       |



SEBENING PEDIATRIC ASPIRATOR |  
SEBENING PÄDIATRISCHER SAUGER

60°  
Detachable basket  
Korb abnehmbar

| Ø<br>MM | 180 MM |
|---------|--------|
| 3.3     | MNE-8  |

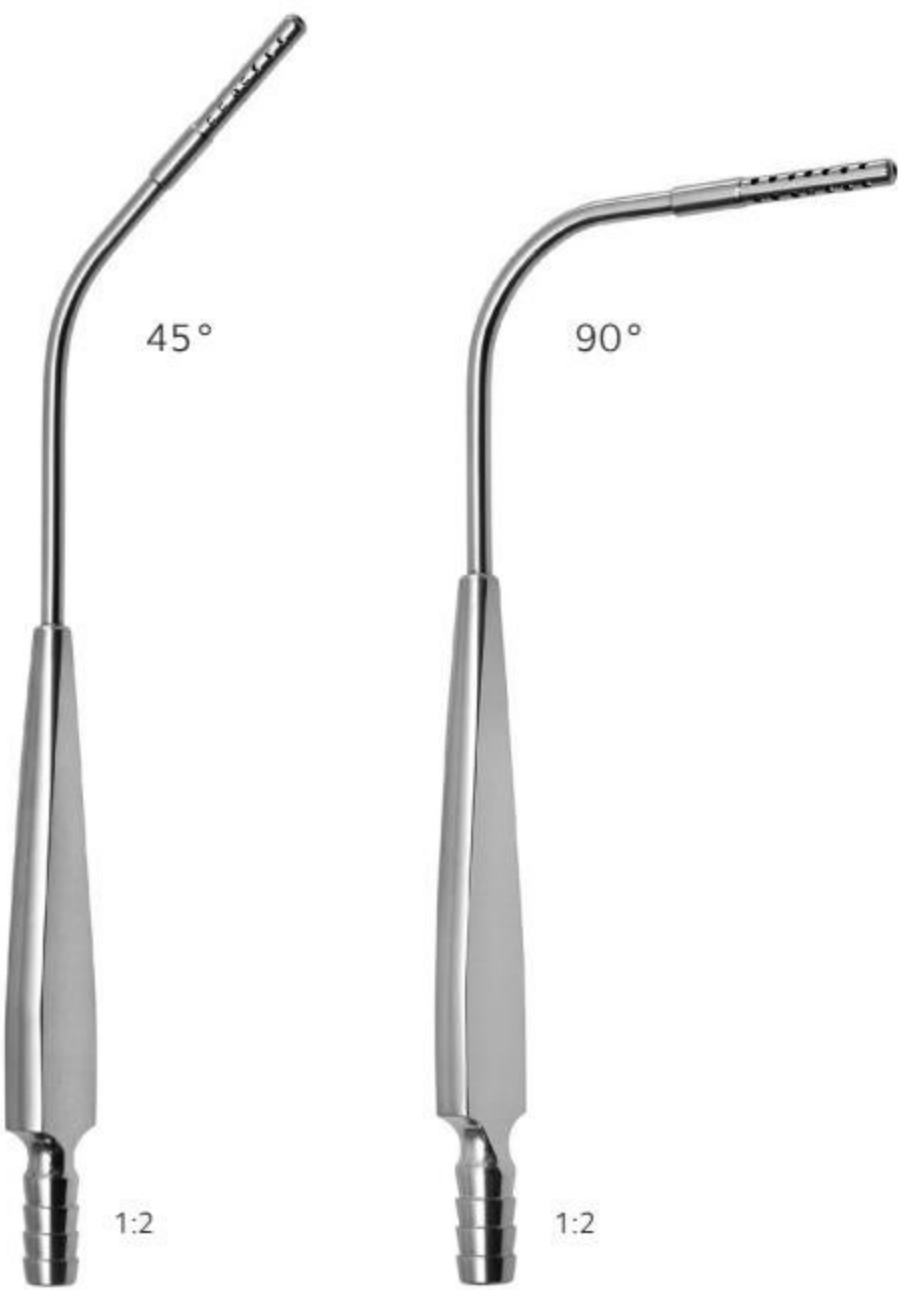




GRECO PEDIATRIC ASPIRATOR |  
GRECO PÄDIATRISCHER SAUGER

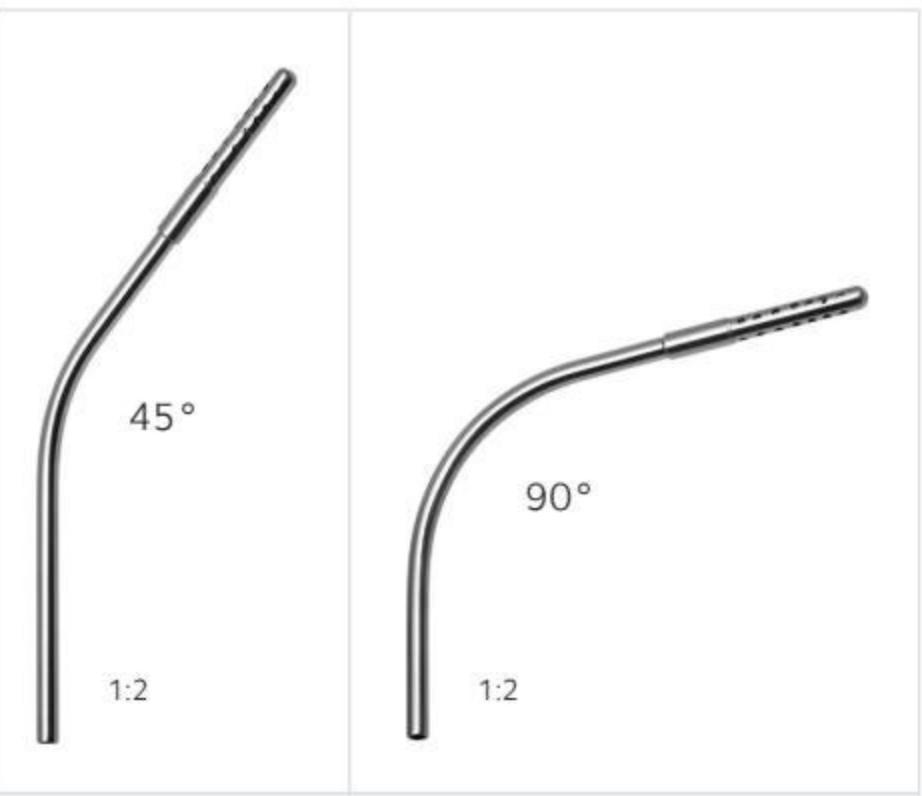
Basket detachable  
Korb abnehmbar

| Ø<br>TUBE / ROHR | 180 MM | 160 MM |
|------------------|--------|--------|
| 3.3 mm           | MNM-1  | MNM-2  |
| 5.0 mm           | MNM-3  |        |



GRECO HLM-CANNULA |  
GRECO HLM-KANÜLE

Basket detachable  
Korb abnehmbar

| Ø<br>TUBE / ROHR |  |       |
|------------------|-------------------------------------------------------------------------------------|-------|
|                  | 95 MM                                                                               | 80 MM |
| 3.3 mm           |                                                                                     | MNM-6 |
| 5.0 mm           | MNM-7                                                                               |       |

GRECO PEDIATRIC ASPIRATOR |  
GRECO PÄDIATRISCHER SAUGER

45°

| Ø<br>TUBE / ROHR | 210 MM |
|------------------|--------|
| 3.3 mm           | MNL-2  |
| 5.0 mm           | MNL-5  |





PEDIATRIC VENTRICULAR SUCTION  
CANNULA | KINDER-VENTRIKELSAUGER

| LENGTH<br>LÄNGE | Ø<br>MM | ART. NUMBER |
|-----------------|---------|-------------|
| 23 mm           | 6.0     | MKN-8       |
| 25 mm           | 7.0     | MKK-5       |



VENTRICULAR SUCTION CANNULA FOR 1/4" TUBE |  
VENTRIKELSAUGER FÜR 1/4" SCHLAUCH

|                      |                        |
|----------------------|------------------------|
| <br>Ø 16 MM<br>MCC-0 | <br>9 X 12 MM<br>MCC-1 |
|----------------------|------------------------|

HEPARIN CANNULA | HEPARIN KANÜLE

| Ø<br>TUBE / ROHR | LENGTH / LÄNGE |       |        |
|------------------|----------------|-------|--------|
|                  | 48 MM          | 55 MM | 160 MM |
| 1.2 mm           | HAH-9          | HAJ-2 |        |
| 2.0 mm           |                |       | HAJ-3  |



AORTIC DEAIRING CANNULA |  
AORTEN-ENTLÜFTUNGSKANÜLE

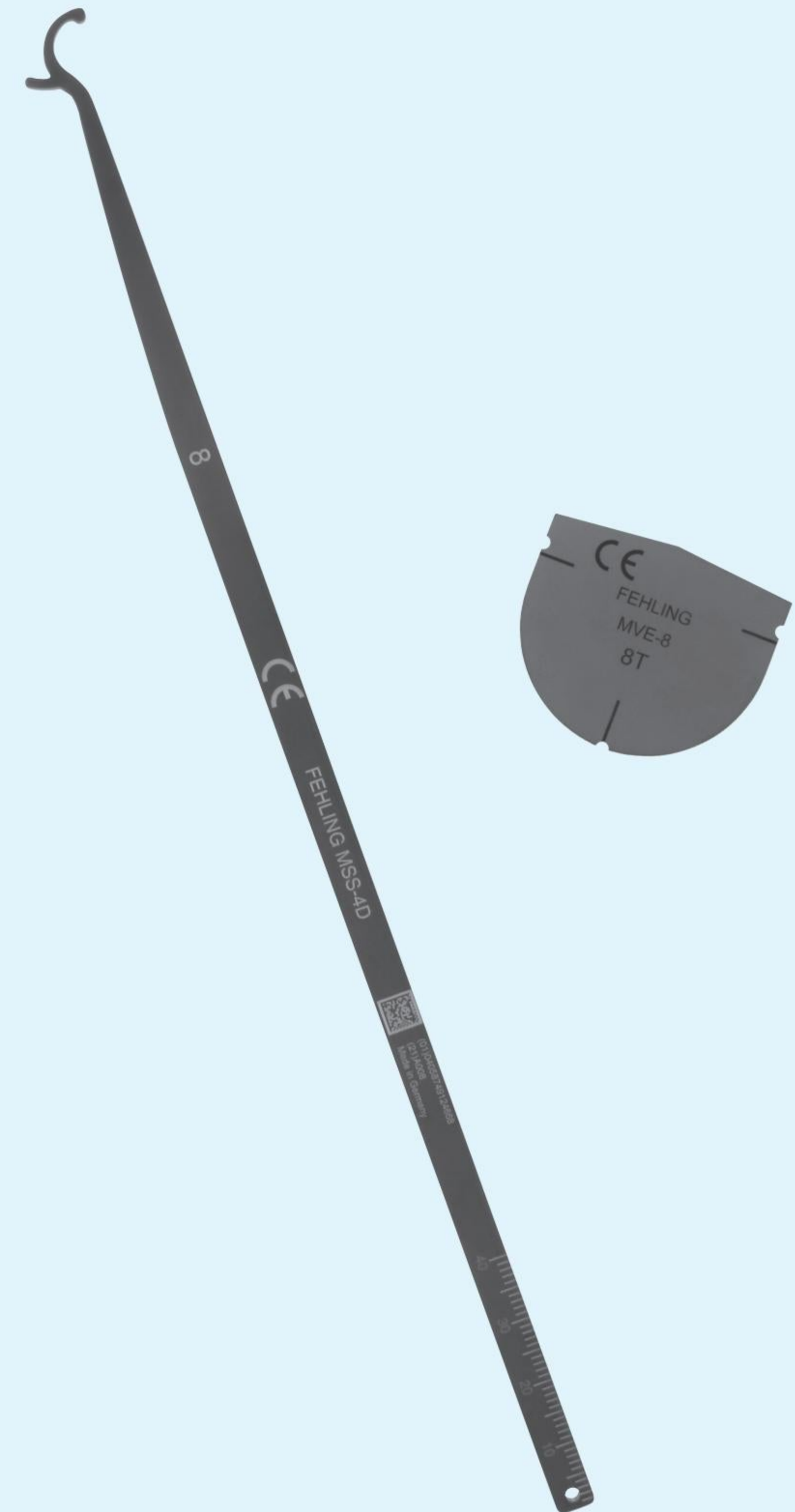
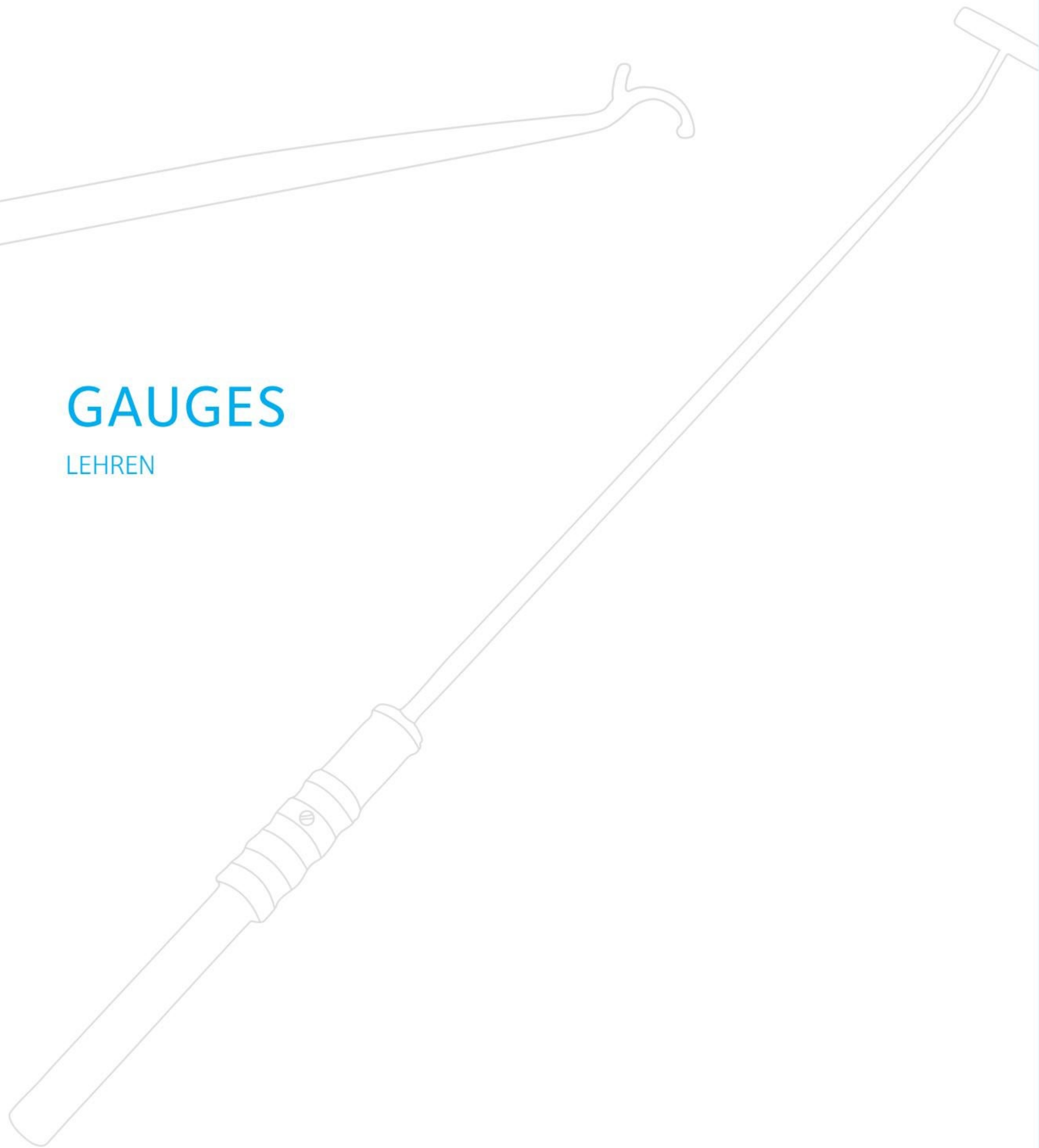
| ART. NUMBER |
|-------------|
| MBR-2       |





## GAUGES

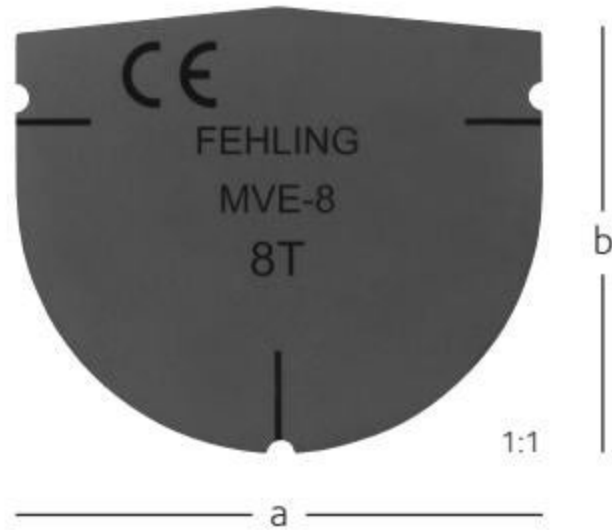
LEHREN





TRIKUSPID SUPERPLAST AV-CUSP  
GAUGE | TRIKUSPID SUPERPLAST AK-  
SEGELIMPLANTAT-LEHRE

| SIZE<br>GRÖSSE | WIDTH X HEIGHT<br>BREITE X HÖHE<br>a x b | ART. NUMBER |
|----------------|------------------------------------------|-------------|
| 1T             | 19 x 20 mm                               | MVE-1       |
| 3T             | 25 x 24 mm                               | MVE-3       |
| 4T             | 28 x 26 mm                               | MVE-4       |
| 7T             | 37 x 32 mm                               | MVE-7       |
| 9T             | 43 x 36 mm                               | MVE-9       |



**SUPERPLAST** instruments are constructed of shape-memory metal. This metal has unique qualities under different thermal conditions. The instruments are malleable in normal OR temperatures. Soft pressure allows “permanent” deformation of shape according to the surgeon’s needs. However in higher temperature, such as those found in the autoclave, the instruments regain their initial shape.

**SUPERPLAST** Instrumente sind aus Metall mit Formgedächtnis. Sie bieten bestimmte Eigenschaften entsprechend den thermischen Bedingungen. Sie sind bei normaler OP-Temperatur biegsam und können durch sanften Druck in die gewünschte Form gebracht werden. Unter höheren Temperaturen, wie bei der Sterilisation, nehmen sie ihre ursprüngliche Form wieder an.



CERAMO® GAUGE FOR EFFECTIVE HEIGHT | CERAMO® MESSLEHRE FÜR EFFEKTIVE HÖHE

230 mm

| SIZE<br>GRÖSSE | WIDTH X HEIGHT<br>BREITE X HÖHE<br>a x b | ART. NUMBER |
|----------------|------------------------------------------|-------------|
| 5              | 5 x 5 mm                                 | MSS-4A      |
| 6              | 6 x 6 mm                                 | MSS-4B      |
| 7              | 7 x 7 mm                                 | MSS-4C      |
| 8              | 8 x 8 mm                                 | MSS-4D      |
| 9              | 9 x 9 mm                                 | MSS-4E      |
| 10             | 10 x 10 mm                               | MSS-4F      |
| 11             | 11 x 11 mm                               | MSS-4G      |
| 12             | 12 x 12 mm                               | MSS-4H      |



1:1

CERAMO® HOLUBEC ANTERIOR LEAFLET GAUGE | CERAMO® HOLUBEC SEGELLEHRE

MSS-5  
360 mm



2:3



# MICS INSTRUMENTS

MICS INSTRUMENTE





CHORDAE GAUGE AND KNOT  
ASSISTANT CHORDAE | CHORDAE  
LEHRE UND KNOTENASSISTENT

| 230 MM | 350 MM |
|--------|--------|
| MNV-4  | MNV-7  |



CHORDAE TYING AND  
MEASUREMENT ASSISTANT |  
CHORDAE MESS- UND KNOTENASSISTENT

| 240 MM |
|--------|
| MNV-1  |



CHORDAE / CUSP RETRACTOR, FLAT |  
CHORDAE- / SEGELRETRAKTOR, FLACH

| 240 MM | 350 MM |
|--------|--------|
| MNV-6  | MNV-8  |





CERAMO® HCR FORCEPS |  
CERAMO® HCR PINZETTEN

Double action  
Beidseitig öffnend

|                                                                                    |        |
|------------------------------------------------------------------------------------|--------|
|  |        |
| 80°<br>1,5 x 1,5 mm                                                                |        |
| TOTAL LENGTH<br>GESAMTLÄNGE                                                        | 350 MM |
| ART. NUMBER                                                                        | MUA-1  |



1:2

CERAMO® HCR FORCEPS |  
CERAMO® HCR PINZETTEN

|                                     |                                                                                     |          |                                                                                     |        |                                                                                     |                  |                    |
|-------------------------------------|-------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|------------------|--------------------|
|                                     |  |          |  |        |  |                  |                    |
|                                     | 1.2 x 8 MM                                                                          |          | 1 x 10 MM                                                                           |        | 3 x 15 MM                                                                           |                  |                    |
|                                     | SUTURE / NAHT                                                                       |          |                                                                                     |        | VALVE / Klappe                                                                      |                  |                    |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 280 MM                                                                              | 350 MM   | 345 MM                                                                              | 400 MM | 280 MM                                                                              | 350 MM           | 400 MM             |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 3.5 MM                                                                            | Ø 3.4 MM | Ø 5.0 MM                                                                            |        |                                                                                     |                  |                    |
| ART. NUMBER                         | MRC-1                                                                               | MSP-7    | MRA-5                                                                               | MRA-5L | MQZ-8                                                                               | MRA-0<br>MRQ-3 * | MRA-0L<br>MRQ-3L * |

|                                     |                                                                                       |        |                                                                                      |          |
|-------------------------------------|---------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|----------|
|                                     |  |        |  |          |
|                                     | 1:1                                                                                   |        | 1:1                                                                                  |          |
|                                     | RUSSIAN / RUSSISCH                                                                    |        | TISSUE / GEWEBE                                                                      |          |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 280 MM                                                                                | 350 MM | 400 MM                                                                               | 350 MM   |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 5.0 MM                                                                              |        |                                                                                      | Ø 3.0 MM |
| ART. NUMBER                         | MQZ-5                                                                                 | MRQ-5  | MRQ-5L                                                                               | MSQ-4    |

\* With lock / Mit Sperre



1:2



CERAMO® HCR FORCEPS |  
CERAMO® HCR PINZETTEN

|                                                               |          |        |        |        |        |
|---------------------------------------------------------------|----------|--------|--------|--------|--------|
| <div><div>1.5 x 11 MM1:1</div><div>1.5 x 11 MM1:1</div></div> |          |        |        |        |        |
| NON-TRAUMATIC / ATRAUMATISCH                                  |          |        |        |        |        |
| TOTAL LENGTH<br>GESAMTLÄNGE                                   | 350 MM   | 400 MM | 280 MM | 350 MM | 400 MM |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER                           | Ø 5.0 MM |        |        |        |        |
| ART. NUMBER                                                   | MRG-7    | MRG-7L | MSO-6  | MRG-6  | MRG-6L |

|                                     |          |        |                   |                                |                   |        |
|-------------------------------------|----------|--------|-------------------|--------------------------------|-------------------|--------|
| <div>2.8 x 15 MM1:1</div>           |          |        |                   |                                |                   |        |
| NON-TRAUMATIC / ATRAUMATISCH        |          |        |                   |                                |                   |        |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 290 MM   | 350 MM | 280 MM            | 350 MM                         | 400 MM            | 430 MM |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 3.0 MM |        | Ø 5.0 MM          |                                |                   |        |
| ART. NUMBER                         | MRC-2D   | MSP-8D | MRN-0<br>MRN-0B * | MRA-3<br>MRA-3B *<br>MRA-3U ** | MQZ-2 *<br>MRA-3L | MRD-4  |

\* With lock / Mit Sperre  
\*\* No CERAMO® / Kein CERAMO®

CERAMO® HCR FORCEPS |  
CERAMO® HCR PINZETTEN

|                                     |          |        |
|-------------------------------------|----------|--------|
| <div>45°<br/>2.8 x 15 MM1:1</div>   |          |        |
| NON-TRAUMATIC / ATRAUMATISCH        |          |        |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 350 MM   | 400 MM |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 5.0 MM |        |
| ART. NUMBER                         | MRA-4    | MRA-4L |

|                                     |          |        |        |
|-------------------------------------|----------|--------|--------|
| <div>30°<br/>2.3 x 10 MM1:1</div>   |          |        |        |
| NON-TRAUMATIC / ATRAUMATISCH        |          |        |        |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 280 MM   | 350 MM | 400 MM |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 5.0 MM |        |        |
| ART. NUMBER                         | MQY-7K   | MQY-7  | MQY-7L |





CERAMO® HCR FORCEPS |  
CERAMO® HCR PINZETTEN

|                                     |                                                                                                                         |                                                                                                                                 |                                                                                                                                  |       |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------|
|                                     |  <div>1:1</div> <div>1.5 x 15 MM</div> |  <div>1:1</div> <div>45°<br/>1.4 x 12 MM</div> |  <div>1:1</div> <div>45°<br/>1.5 x 12 MM</div> |       |
| NON-TRAUMATIC / ATRAUMATISCH        |                                                                                                                         |                                                                                                                                 |                                                                                                                                  |       |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 240 MM                                                                                                                  | 290 MM                                                                                                                          | 280 MM                                                                                                                           |       |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 3.4 MM                                                                                                                | Ø 3.5 MM                                                                                                                        |                                                                                                                                  |       |
| ART. NUMBER                         | MRC-2K                                                                                                                  | MRC-2                                                                                                                           | MRC-0                                                                                                                            | MRC-3 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |       |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|----------|
| <div><div><div>1:1</div><div>45°<br/>DELICATE / FEIN<br/>1.2 x 12 MM</div></div><div><div>1:1</div><div>DELICATE / FEIN<br/>1.2 x 12 MM</div></div><div><div>1:1</div><div>2.8 x 15 MM</div></div></div> |          |       |          |
| NON-TRAUMATIC / ATRAUMATISCH                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |       |          |
| TOTAL LENGTH<br>GESAMTLÄNGE                                                                                                                                                                                                                                                                                                                                                                                                                                       | 350 MM   |       | 400 MM   |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER                                                                                                                                                                                                                                                                                                                                                                                                                               | Ø 3.0 MM |       | Ø 3.4 MM |
| ART. NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MSP-9D   | MSQ-3 | MRB-7    |



1:2

CERAMO® HCR NEEDLE HOLDERS |  
CERAMO® HCR NADELHALTER

With lock / Mit Sperre

|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |        |        |        |        |        |        |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|--------|--------|--------|--------|--------|--------|
| <div><div><div>1:1</div><div>1 x 10 MM<br/>MAX. 5x0</div></div><div><div>1:1</div><div>2 x 10 MM<br/>MAX. 5x0</div></div><div><div>1:1</div><div>3 x 10 MM<br/>MAX. 3x0</div></div></div> |          |        |        |        |        |        |        |        |
| TCM                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |        |        |        |        |        |        |        |
| TOTAL LENGTH<br>GESAMTLÄNGE                                                                                                                                                                                                                                                                                                                                                                                                                        | 340 MM   | 400 MM | 340 MM | 400 MM | 280 MM | 340 MM | 400 MM | 430 MM |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER                                                                                                                                                                                                                                                                                                                                                                                                                | Ø 5.0 MM |        |        |        |        |        |        |        |
| ART. NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                        | MRB-3    | MRB-3L | MRB-2  | MRB-2L | MRG-8  | MRB-1  | MRB-1L | MRD-5  |

|                                     |                                                                                                                                                                                                                                                                                                           |          |        |          |        |        |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|----------|--------|--------|
|                                     | <div><div><div>1:1</div><div>1 x 10 MM<br/>MAX. 6x0</div></div><div><div>1:1</div><div>2 x 10 MM<br/>MAX. 5x0</div></div></div> |          |        |          |        |        |
|                                     | TCM                                                                                                                                                                                                                                                                                                       |          |        |          |        |        |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 250 MM                                                                                                                                                                                                                                                                                                    | 280 MM   | 350 MM | 240 MM   | 280 MM | 360 MM |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 3.5 MM                                                                                                                                                                                                                                                                                                  | Ø 3.4 MM |        | Ø 3.5 MM |        |        |
| ART. NUMBER                         | MRM-4                                                                                                                                                                                                                                                                                                     | MRC-5    | MSP-6  | MRC-4K   | MRC-4  | MRC-4L |



1:2



CERAMO® HCR NEEDLE HOLDERS |  
CERAMO® HCR NADELHALTER

With lock / Mit Sperre

|                                     |                                                                                                         |        |                                                                                                              |        |                                                                                                             |                  |        |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------|------------------|--------|
|                                     | <br>1.5 MM<br>MAX. 5x0 |        | <br>2.5 x 10 MM<br>MAX. 2x0 |        | <br>3 x 10 MM<br>MAX. 2x0 |                  |        |
|                                     | TC RYDER                                                                                                |        | TC                                                                                                           |        |                                                                                                             |                  |        |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 350 MM                                                                                                  | 400 MM | 340 MM                                                                                                       | 400 MM | 280 MM                                                                                                      | 340 MM           | 400 MM |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 5.0 MM                                                                                                |        |                                                                                                              |        |                                                                                                             |                  |        |
| ART. NUMBER                         | MSO-1                                                                                                   | MSO-1L | MRT-1                                                                                                        | MRT-1L | MRT-6                                                                                                       | MRG-9<br>MRD-0 * | MRG-9L |

|                                     |                                                                                                                     |        |        |        |          |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------|--------|--------|----------|
|                                     | <br>3 x 10 MM<br>MAX. 2x0<br>1:1 |        |        |        |          |
|                                     | TC                                                                                                                  |        |        |        |          |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 280 MM                                                                                                              | 400 MM | 340 MM | 350 MM | 440 MM   |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 5.0 MM                                                                                                            |        |        |        |          |
| ART. NUMBER                         | MSO-5                                                                                                               | MSO-5L | MRG-2S | MRG-2  | MRG-2L * |

\* Without lock / Ohne Sperre



CERAMO® HCR NEEDLE HOLDERS |  
CERAMO® HCR NADELHALTER

With lock / Mit Sperre

|                                     |                                                                                                                      |        |        |                                                                                                                    |        |        |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------|--------|--------------------------------------------------------------------------------------------------------------------|--------|--------|
|                                     | <br>3.5 x 9 MM<br>MAX. 2x0<br>1:1 |        |        | <br>4 x 9 MM<br>MAX. 2x0<br>1:1 |        |        |
|                                     | TCM                                                                                                                  |        |        |                                                                                                                    |        |        |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 280 MM                                                                                                               | 350 MM | 400 MM | 280 MM                                                                                                             | 350 MM | 400 MM |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 5.0 MM                                                                                                             |        |        |                                                                                                                    |        |        |
| ART. NUMBER                         | MQX-4                                                                                                                | MQY-1  | MQX-1  | MQX-5                                                                                                              | MQY-2  | MQX-2  |

|                                     |                                                                                                                        |        |        |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------|--------|
|                                     | <br>4.5 x 9 MM<br>MAX. 2x0<br>1:1 |        |        |
|                                     | TCM                                                                                                                    |        |        |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 280 MM                                                                                                                 | 350 MM | 400 MM |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 5.0 MM                                                                                                               |        |        |
| ART. NUMBER                         | MQX-6                                                                                                                  | MQY-3  | MQX-3  |



CERAMO® HCR NEEDLE HOLDERS |  
CERAMO® HCR NADELHALTER

With lock / Mit Sperre  
Curved / Gebogen

|                                     |                                                                                                                    |        |        |                                                                                                                    |        |        |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------|--------|--------------------------------------------------------------------------------------------------------------------|--------|--------|
|                                     | <br>OPS<br>3.5 x 9 mm<br>MAX. 2x0 |        |        | <br>OPS<br>4 x 9 mm<br>MAX. 2x0 |        |        |
|                                     | TCM                                                                                                                |        |        |                                                                                                                    |        |        |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 280 mm                                                                                                             | 350 mm | 400 mm | 280 mm                                                                                                             | 350 mm | 400 mm |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 5.0 mm                                                                                                           |        |        |                                                                                                                    |        |        |
| ART. NUMBER                         | MQX-4G                                                                                                             | MQY-1G | MQX-1G | MQX-5G                                                                                                             | MQY-2G | MQX-2G |

|                                     |                                                                                                                      |        |        |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------|--------|
|                                     | <br>OPS<br>4.5 x 9 mm<br>MAX. 2x0 |        |        |
|                                     | TCM                                                                                                                  |        |        |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 280 mm                                                                                                               | 350 mm | 400 mm |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 5.0 mm                                                                                                             |        |        |
| ART. NUMBER                         | MQX-6G                                                                                                               | MQY-3G | MQX-3G |

CERAMO® HCR SCISSORS |  
CERAMO® HCR SCISSORS

|                                     |                                                                                            |        |                                                                                            |        |                                                                                            |        |        |
|-------------------------------------|--------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------|--------|--------|
|                                     | <br>1:1 |        | <br>1:1 |        | <br>1:1 |        |        |
|                                     | VALVE / Klappe                                                                             |        |                                                                                            |        |                                                                                            |        |        |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 280 MM                                                                                     | 350 MM | 280 MM                                                                                     | 350 MM | 280 MM                                                                                     | 350 MM | 450 MM |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 5.0 MM                                                                                   |        |                                                                                            |        |                                                                                            |        |        |
| ART. NUMBER                         | MQZ-7                                                                                      | MRT-2  | MSO-2                                                                                      | MRT-3  | MSO-3                                                                                      | MRD-7  | MRD-7L |

|                                     |                                                                                             |                                                                                             |                                                                                             |        |        |        |        |
|-------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------|--------|--------|--------|
|                                     | <br>1:1 | <br>1:1 | <br>1:1 |        |        |        |        |
|                                     | VALVE / Klappe                                                                              |                                                                                             |                                                                                             |        |        |        |        |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 350 mm                                                                                      |                                                                                             | 400 mm                                                                                      | 280 mm | 350 mm | 400 mm |        |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 5.0 mm                                                                                    |                                                                                             |                                                                                             |        |        |        |        |
| ART. NUMBER                         | MRA-7                                                                                       | MSO-4                                                                                       | MRT-5                                                                                       | MRT-5L | MQZ-6  | MSO-8  | MSO-8L |



CERAMO® HCR SCISSORS | CERAMO® HCR SCISSORS

|                                     |                                                                                                     |        |        |                                                                                                      |        |        |
|-------------------------------------|-----------------------------------------------------------------------------------------------------|--------|--------|------------------------------------------------------------------------------------------------------|--------|--------|
|                                     | <br>1:1<br>ROBUST |        |        | <br>1:1<br>ROBUST |        |        |
|                                     | SLIGHTLY CURVED / LEICHT ABGEBOGEN<br>BLUNT / STUMPF                                                |        |        | STRONG CURVED / STARK ABGEBOGEN<br>BLUNT / STUMPF                                                    |        |        |
|                                     | VALVE / Klappe                                                                                      |        |        |                                                                                                      |        |        |
|                                     | TOTAL LENGTH<br>GESAMTLÄNGE                                                                         | 280 MM | 350 MM | 400 MM                                                                                               | 280 MM | 350 MM |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 4.5 MM                                                                                            |        |        |                                                                                                      |        |        |
| ART. NUMBER                         | MSP-2K                                                                                              | MSP-2  | MSP-2L | MSP-3K                                                                                               | MSP-3  | MSP-3L |



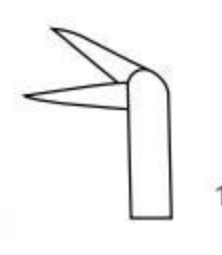
CERAMO® HCR SCISSORS | CERAMO® HCR SCISSORS

|             |                                                                                     |          |        |                                       |          |        |          |          |
|-------------|-------------------------------------------------------------------------------------|----------|--------|---------------------------------------|----------|--------|----------|----------|
|             |  |          |        |                                       |          |        |          |          |
|             | DISSECTION<br>PRÄPARATION                                                           |          |        | MICRO DISSECTION<br>MIKRO PRÄPARATION |          |        |          |          |
|             | TOTAL LENGTH<br>GESAMTLÄNGE                                                         | 280 MM   | 350 MM | 430 MM                                | 280 MM   | 350 MM | 280 MM   | 350 MM   |
|             | SHAFT DIAMETER<br>SCHAFTDURCHMESSER                                                 | Ø 5.0 MM |        |                                       | Ø 3.4 MM |        | Ø 3.5 MM | Ø 3.4 MM |
| ART. NUMBER | MRQ-0                                                                               | MRA-6    | MRD-6  | MSP-1D                                | MRC-6D   | MRC-6  | MSP-1    |          |

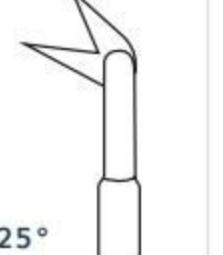
|             |                                                                                      |          |       |       |          |        |        |
|-------------|--------------------------------------------------------------------------------------|----------|-------|-------|----------|--------|--------|
|             |  |          |       |       |          |        |        |
|             | VASCULAR / GEFÄSS                                                                    |          |       |       |          |        |        |
|             | TOTAL LENGTH<br>GESAMTLÄNGE                                                          | 280 MM   |       |       | 335 MM   | 345 MM | 400 MM |
|             | SHAFT DIAMETER<br>SCHAFTDURCHMESSER                                                  | Ø 3.5 MM |       |       | Ø 5.0 MM |        |        |
| ART. NUMBER | MRC-7                                                                                | MRC-8    | MRM-0 | MRA-9 | MRA-8B   | MRA-8  | MRA-8L |



CERAMO® HCR SCISSORS |  
CERAMO® HCR SCISSORS

|                                     |                                                                                   |        |                                                                                   |        |                                                                                    |        |
|-------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|--------|
|                                     |  |        |  |        |  |        |
|                                     | VASCULAR / GEFÄSS                                                                 |        |                                                                                   |        |                                                                                    |        |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 290 MM                                                                            | 320 MM | 290 MM                                                                            | 320 MM | 290 MM                                                                             | 320 MM |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 3.0 MM                                                                          |        |                                                                                   |        |                                                                                    |        |
| ART. NUMBER                         | TOZ-0                                                                             | TOZ-0L | TOZ-1                                                                             | TOZ-1L | TOZ-2                                                                              | TOZ-2L |

|                                     |                                                                                            |        |                                                                                             |        |
|-------------------------------------|--------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------|--------|
|                                     | <br>90° |        | <br>120° |        |
|                                     | VASCULAR / GEFÄSS                                                                          |        |                                                                                             |        |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 290 MM                                                                                     | 320 MM | 290 MM                                                                                      | 320 MM |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 3.0 MM                                                                                   |        |                                                                                             |        |
| ART. NUMBER                         | TOZ-3                                                                                      | TOZ-3L | TOZ-4                                                                                       | TOZ-4L |

|                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                     |  |  |  |  |  |
|                                     | VASCULAR AND DELICATE / GEFÄSS UND FEIN                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| TOTAL LENGTH<br>GESAMTLÄNGE         | 290 MM                                                                              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 3.0 MM                                                                            |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| ART. NUMBER                         | TPA-1                                                                               | TPA-2                                                                               | TPA-3                                                                               | TPA-4                                                                               | TPA-5                                                                               |



2:3



CERAMO® MICS NON-TRAUMATIC GRASPING FORCEPS |  
CERAMO® MICS ATRAUMATISCHE ORGANFASSZANGE

2x3 teeth / Zähne

|                                                                                                       |                                     |          |          |  |
|-------------------------------------------------------------------------------------------------------|-------------------------------------|----------|----------|--|
| <br>1:1<br>5 x 30 MM | TOTAL LENGTH<br>GESAMTLÄNGE         | 370 MM   |          |  |
|                                                                                                       | SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 5.0 MM |          |  |
|                                                                                                       | ART. NUMBER                         | MRL-8    | MRL-8L * |  |

\* With lock / Mit Sperre

CERAMO® HCR KNOT PUSHER |  
CERAMO® HCR KNOTENSCHIEBER

|                                                                                                   |                                     |          |                   |        |          |        |
|---------------------------------------------------------------------------------------------------|-------------------------------------|----------|-------------------|--------|----------|--------|
| <br>1:1<br>25° | TOTAL LENGTH<br>GESAMTLÄNGE         | 280 MM   | 340 MM            | 400 MM | 280 MM   | 340 MM |
|                                                                                                   | SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 5.0 MM |                   |        | Ø 3.0 MM |        |
|                                                                                                   | ART. NUMBER                         | MRQ-2    | MRB-6<br>MRB-6B * | MRB-6L | MSQ-2    | MSQ-1  |

|                                                                                                   |                                     |          |        |        |
|---------------------------------------------------------------------------------------------------|-------------------------------------|----------|--------|--------|
| <br>1:1<br>70° | TOTAL LENGTH<br>GESAMTLÄNGE         | 280 MM   | 350 MM | 400 MM |
|                                                                                                   | SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 3.4 MM |        |        |
|                                                                                                   | ART. NUMBER                         | MQY-5K   | MQY-5  | MQY-5L |

\* With lock / Mit Sperre



HCR CLIP APPLIER |  
HCR CLIPANLEGEZANGE

|                                                                                            |                                     |          |        |         |          |
|--------------------------------------------------------------------------------------------|-------------------------------------|----------|--------|---------|----------|
| <br>1:1 | TOTAL LENGTH<br>GESAMTLÄNGE         | 370 MM   |        | 365 MM  | 375 MM   |
|                                                                                            | SIZE<br>GRÖSSE                      | SMALL    | MEDIUM |         |          |
|                                                                                            | SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 5.0 MM |        |         |          |
|                                                                                            | ART. NUMBER                         | MRG-3T   | MRG-4T | MRG-4 * | MRG-4C * |

\* With CERAMO® / Mit CERAMO®





CERAMO® HCR NERVE HOOK |  
CERAMO® HCR NERVHAKEN

|                                                                                    |                                     |          |        |
|------------------------------------------------------------------------------------|-------------------------------------|----------|--------|
|  | TOTAL LENGTH<br>GESAMTLÄNGE         | 280 MM   | 340 MM |
|                                                                                    | SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 4.5 MM |        |
|                                                                                    | ART. NUMBER                         | MRQ-1    | MRB-4  |



2:3

CERAMO® MICS KNOT PUSHER |  
CERAMO® MICS KNOTENSCHIEBER

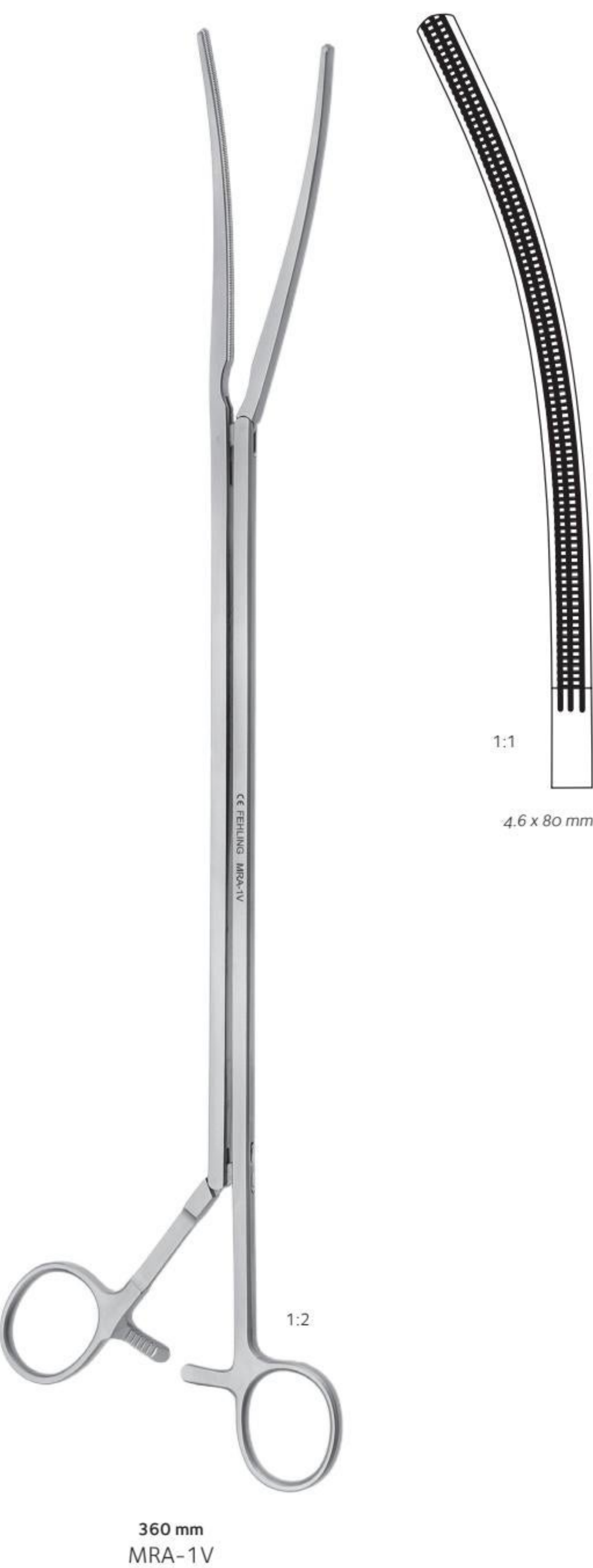
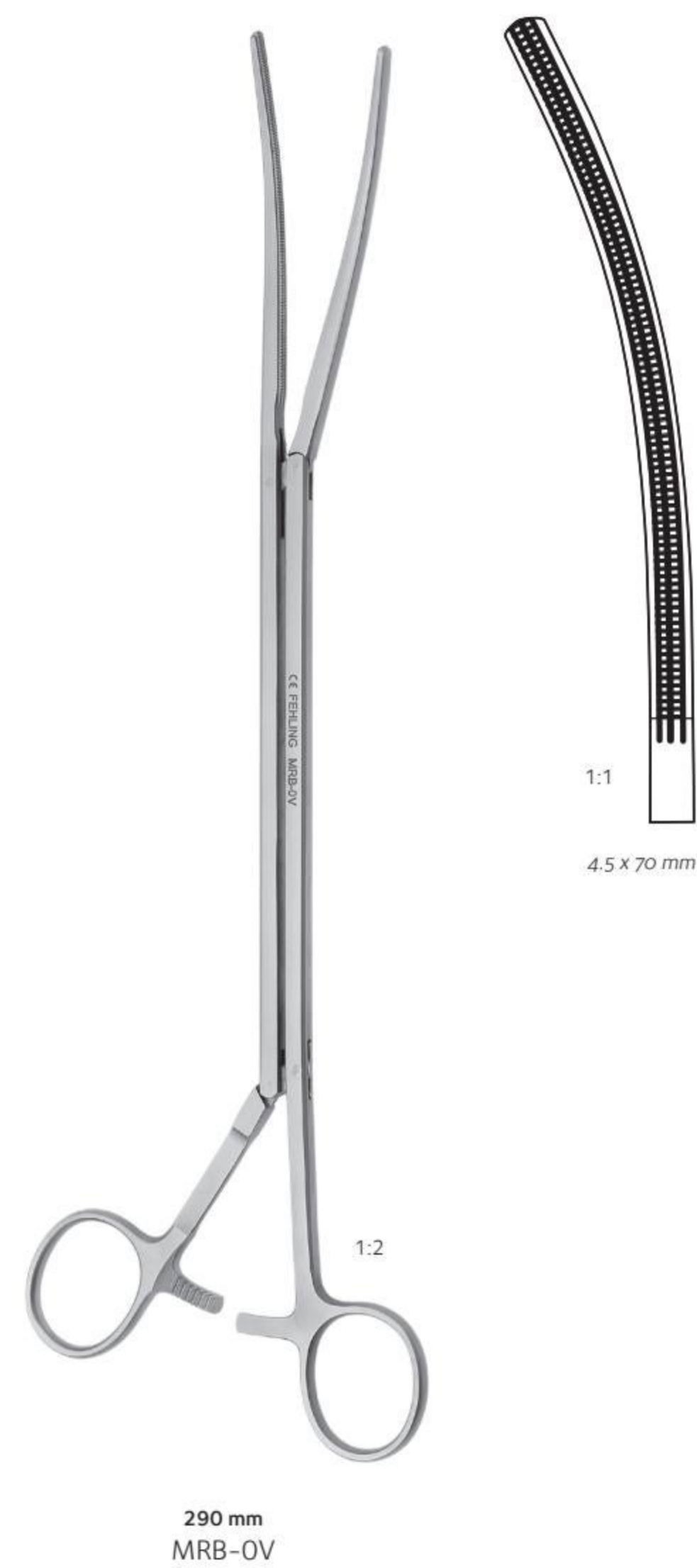
|                                                                                      |                                     |          |        |
|--------------------------------------------------------------------------------------|-------------------------------------|----------|--------|
|  | TOTAL LENGTH<br>GESAMTLÄNGE         | 280 MM   | 340 MM |
|                                                                                      | SHAFT DIAMETER<br>SCHAFTDURCHMESSER | Ø 5.0 MM |        |
|                                                                                      | ART. NUMBER                         | MRK-9K   | MRK-9P |



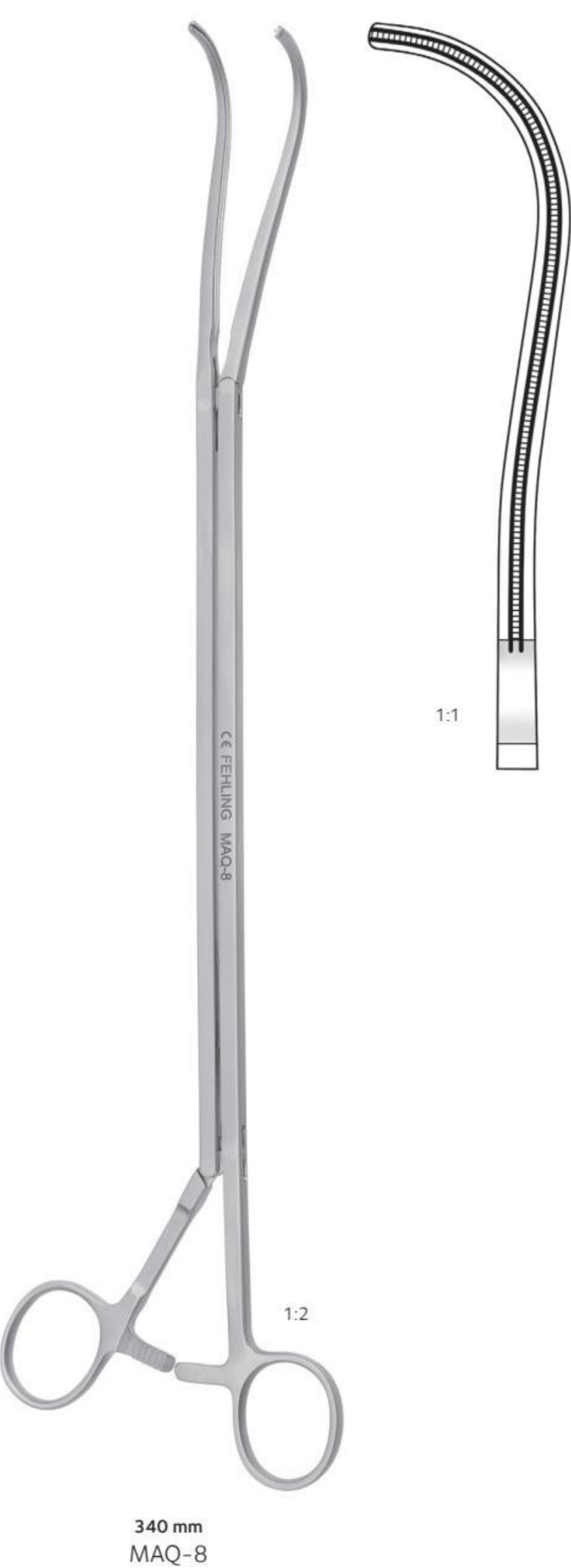
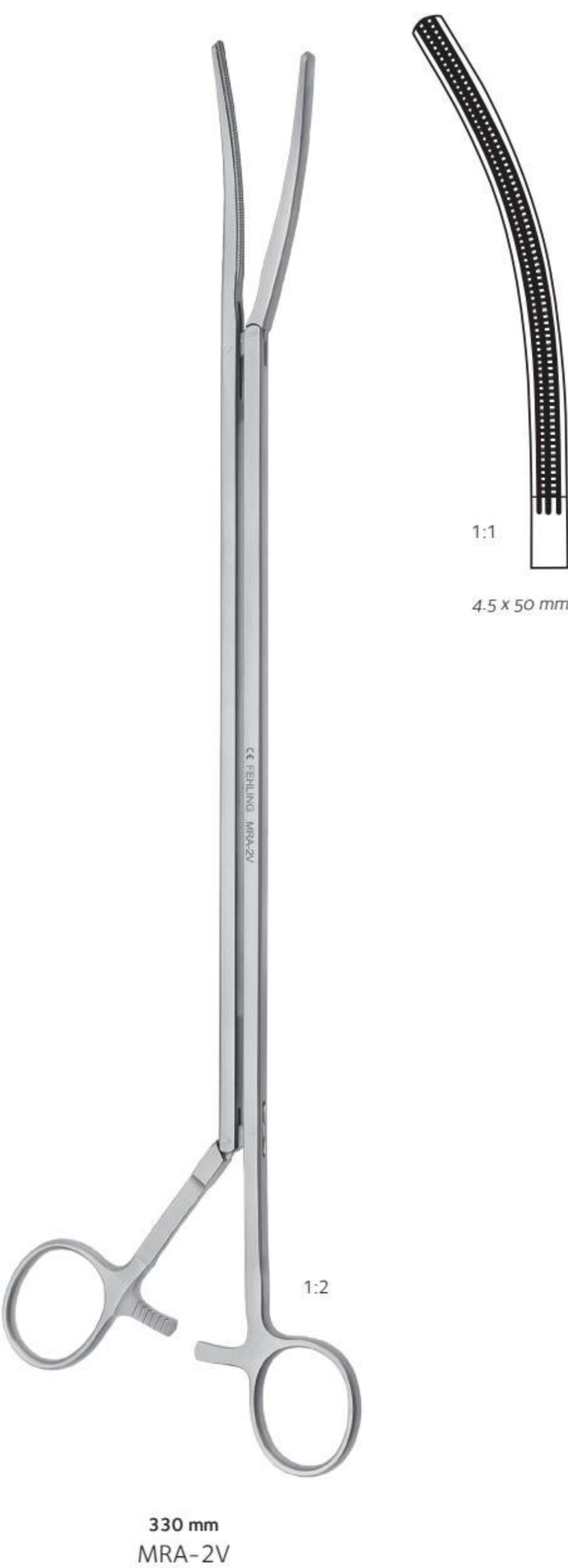
2:3



NON-TRAUMATIC FORCEPS |  
ATRAUMATISCHE KLEMMEN



NON-TRAUMATIC FORCEPS |  
ATRAUMATISCHE KLEMMEN





SATINSKY NON-TRAUMATIC FORCEPS |  
SATINSKY ATRAUMATISCHE KLEMMEN

MBF-0

350 mm



CARDIOPLEGIA CANNULA |  
KARDIOPLEGIEKANÜLE

MRL-0

270 mm



SUTURE HOOK |  
FADENFÄNGER

KCC-0

350 mm



CERAMO® HANDLE FOR KCC-0 |  
CERAMO® GRIFF FÜR KCC-0

ABB-1

110 mm

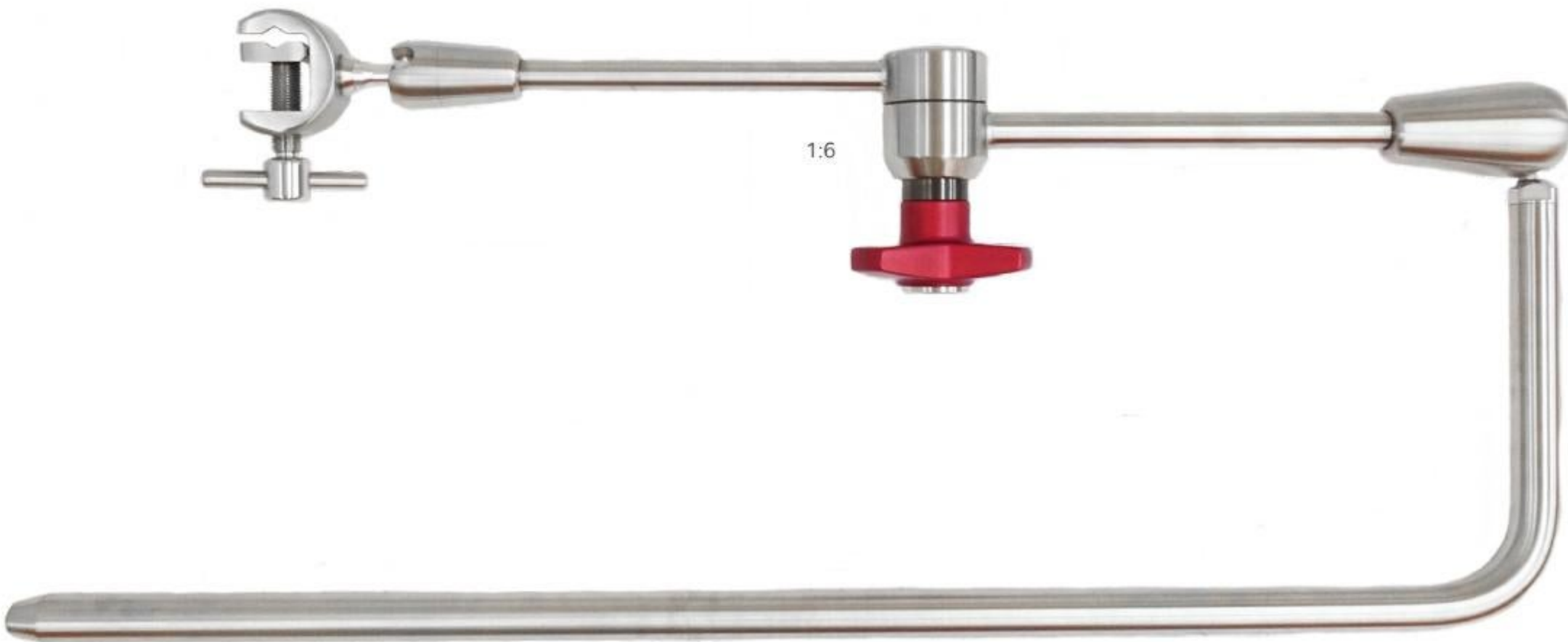




CONCEPT INSTRUMENT ATTACHMENT WITH SOCKET |  
CONCEPT INSTRUMENTEN-HALTERUNG OHNE SOCKEL

L-rod / L-Säule

| TOTAL LENGTH<br>GESAMTLÄNGE | ART. NUMBER |
|-----------------------------|-------------|
| 913 mm                      | EEP-6H      |



CONCEPT INSTRUMENT ATTACHMENT WITH SOCKET |  
CONCEPT INSTRUMENTEN-HALTERUNG OHNE SOCKEL

| TOTAL LENGTH<br>GESAMTLÄNGE | ART. NUMBER |
|-----------------------------|-------------|
| 843 mm                      | EEP-7H      |





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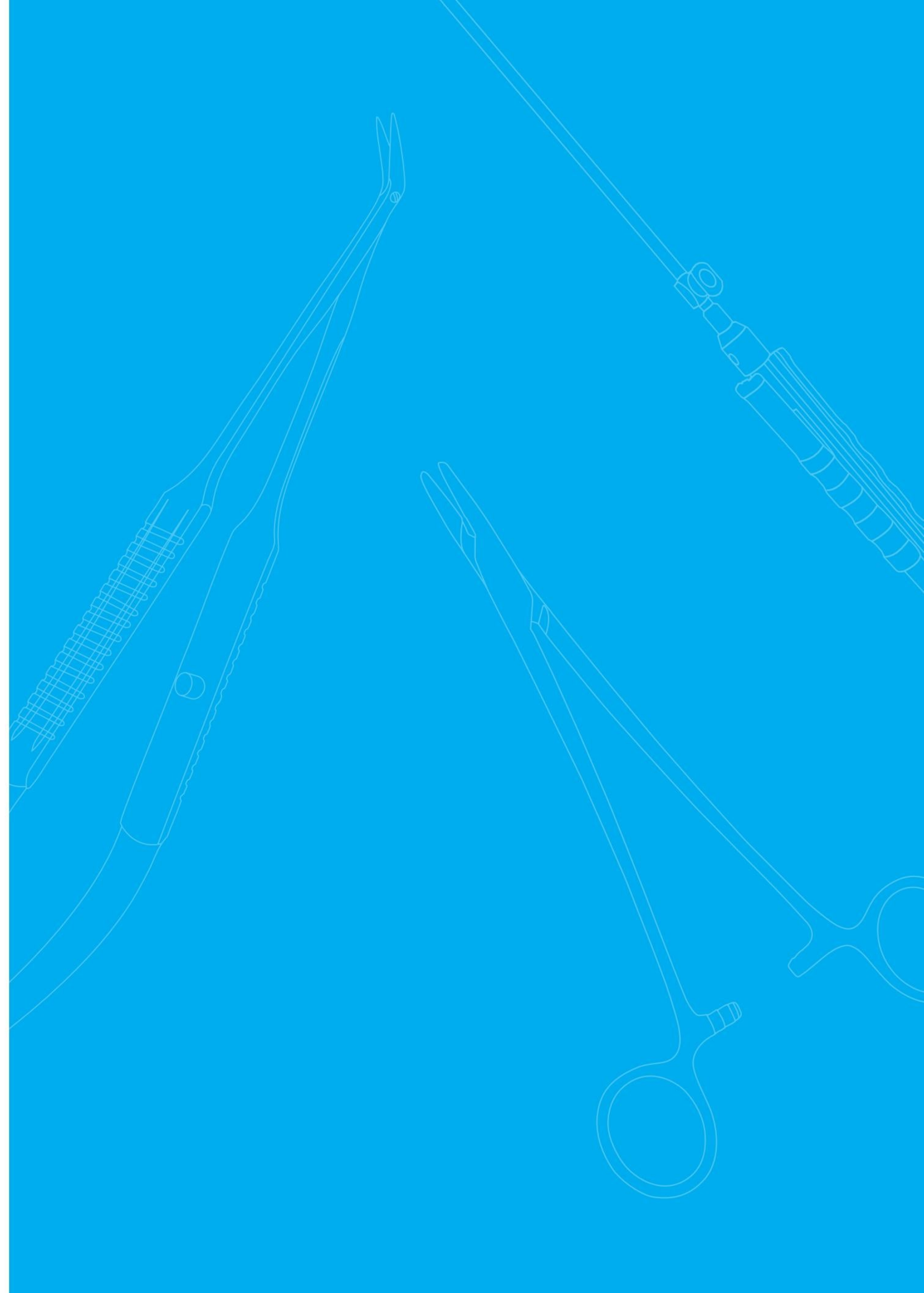
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## FEHLING INSTRUMENTS GmbH

Seligenstädter Str. 100  
63791 Karlstein  
☎ +49 (0) 61 88 – 95 74.40  
✉ [info@fehling-instruments.de](mailto:info@fehling-instruments.de)  
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