







### **Rotating/Detachable Instruments**

*(Instructions on page 6)*

*We have developed a series of rotating/detachable instruments to optimize the cleaning of the laparoscopic instruments.*

*For sterilizing purposes the instruments may be detached into two (Ø 3 mm-Series) or three (Ø 5+10 mm-Series) components. Due to the design of the compact handle, the handle remains together, i. e. there are no further component parts. The easy reassembling is granted by the compatibility of each part.*

*Furthermore the instrument's shaft can be rotated by 360°. The ergonomically formed Lamina Screw supports an effortless rotation of the shaft and thus a fatigueless working of the surgeon. As soon as pressure is put onto the handle the shaft gets fixed.*

*The plastic handles complete the wide range of the already known steel handles. Additionally to the standard model, we offer a handle with deactivating ratchet. Easy handling and light weight are the convincing attitudes of the new plastic handles.*

### **Insulated Shafts:**

*All our Instruments are equipped with an insulated shaft.*

*This is supposed to prevent any undesired current flow if used with other instruments connected to High Frequency.*

*Insulation according norm: DIN EN 60601-2-2.*

*On special request these instruments can be produced with a non insulated shaft, too.*

### **Lengths:**

*All rigid instruments for Laparoscopy shown in this catalogue do have the mentioned lengths. On request, we can supply any other length.*

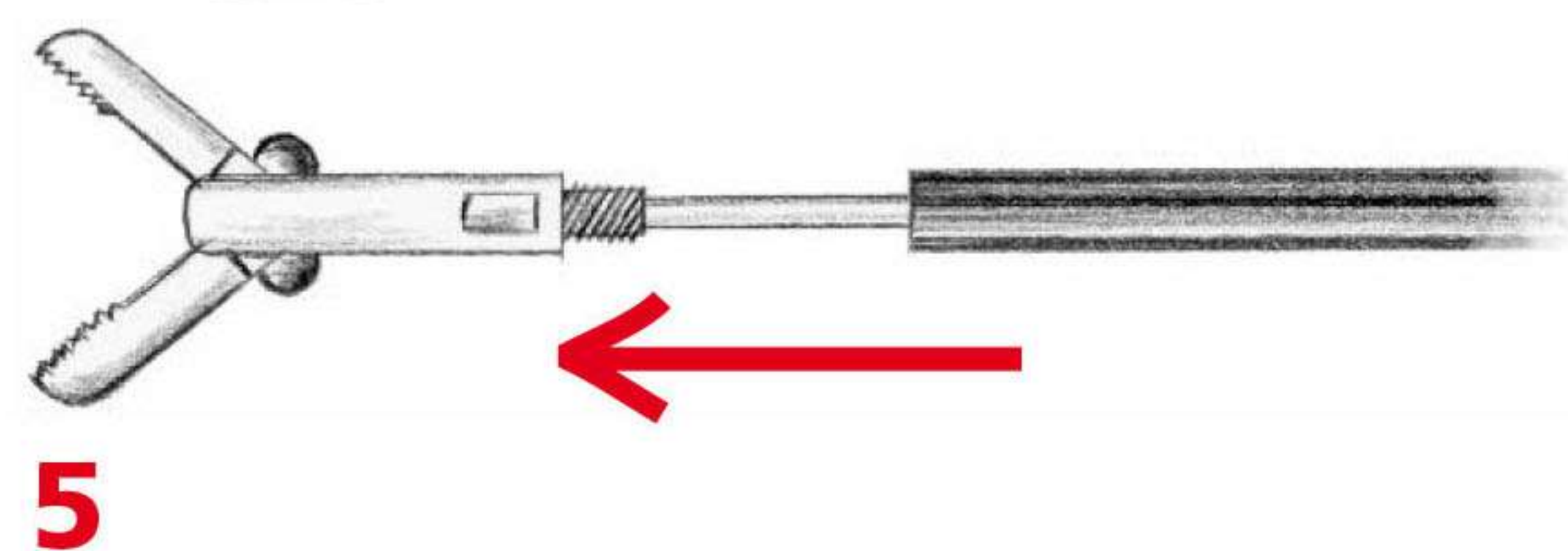
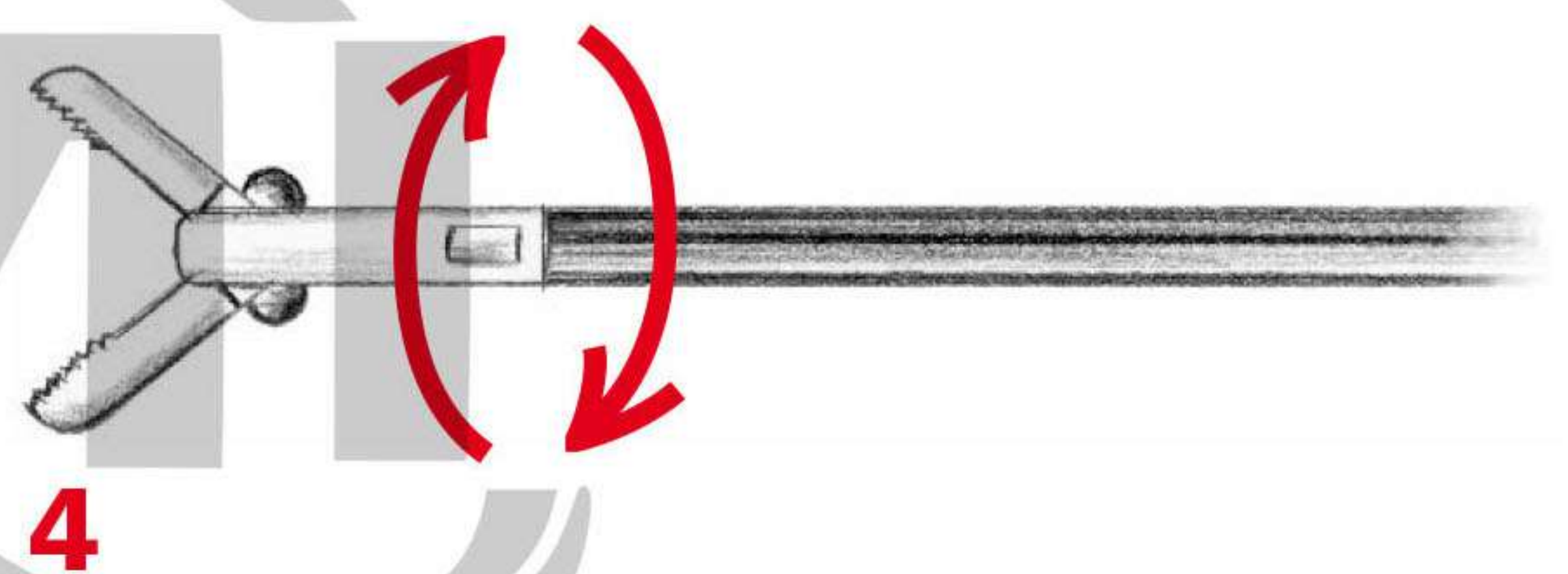
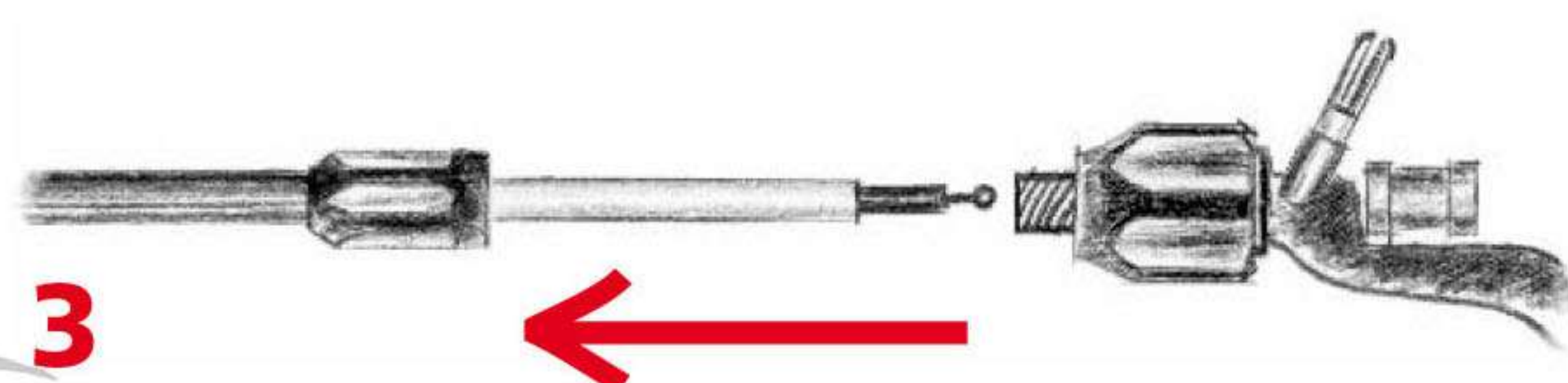
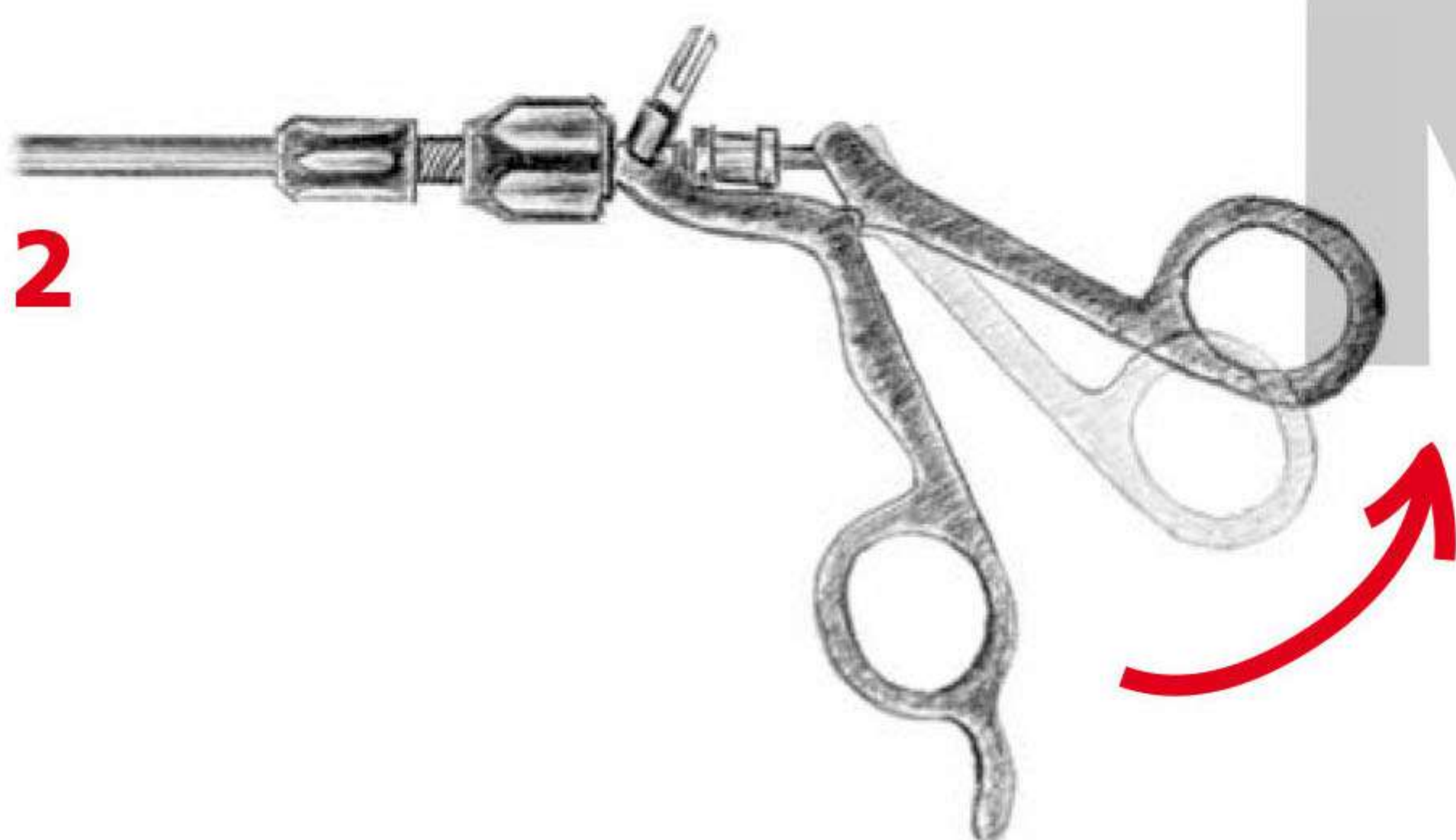
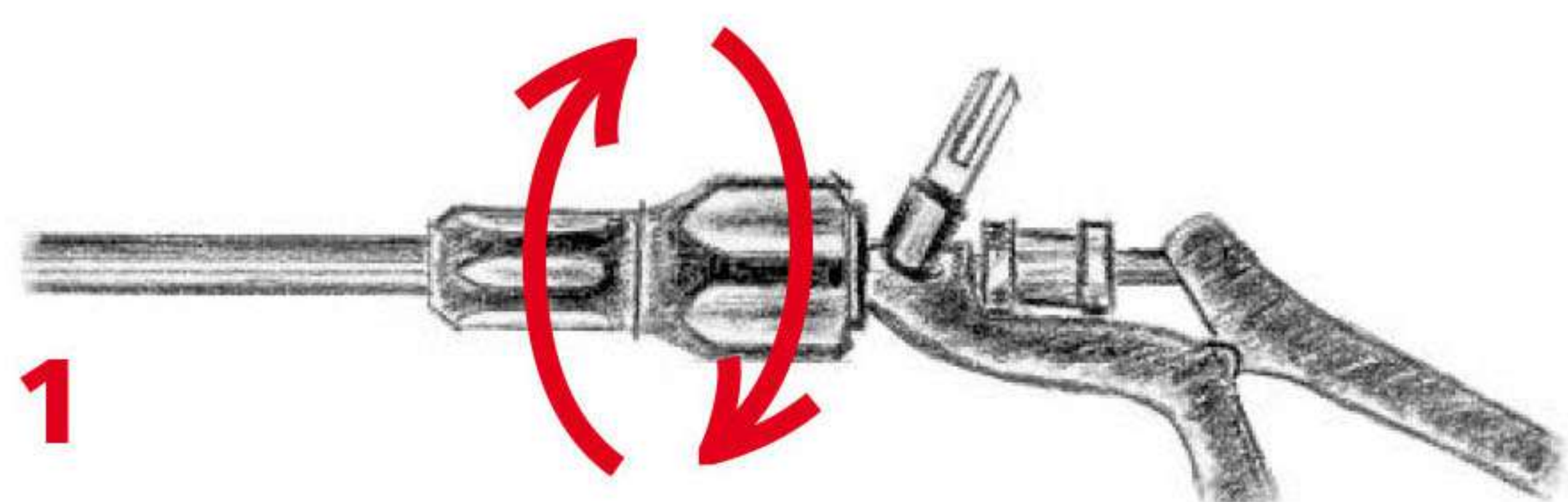
### **Tungsten Carbide:**

*The Tungsten Carbide Inserts guarantee a very long service-life, a smooth and soft cut, and consistent cutting capacity.*





## Zerlegen des Instruments *Detaching of the Instrument*



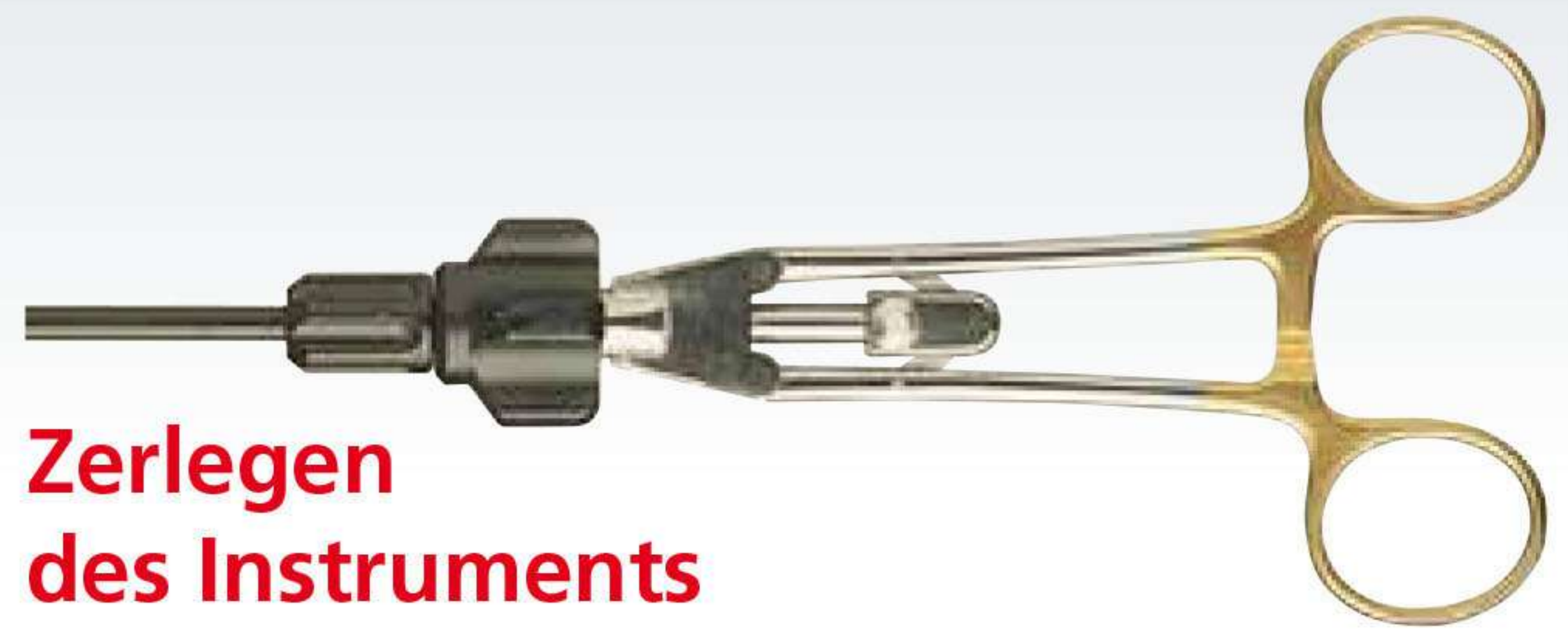
1. Lamellen-Schrauben am Schaft gegeneinander drehen.
2. Hinteres Griffteil schiebt sich dabei in die Waagrechte.
3. Schaft/Maulteil-Verbindung aus hinterem Griffteil ausklinken und vom Griff lösen.
4. Maulteil und Schaft gegeneinander drehen.
5. Maulteil vom Schaft lösen.

**Montage des Instruments in umgekehrter Reihenfolge!**  
Bitte darauf achten, daß alle Schraubverbindungen wieder fest angezogen werden!

1. Turn lamina screws on the shaft against each other.
2. Back handle part comes to the horizontal level automatically.
3. Shaft/jaw part unlink connection from back handle part and loosen from handle.
4. Turn jaw part and shaft against each other.
5. Pull out jaw part from shaft.

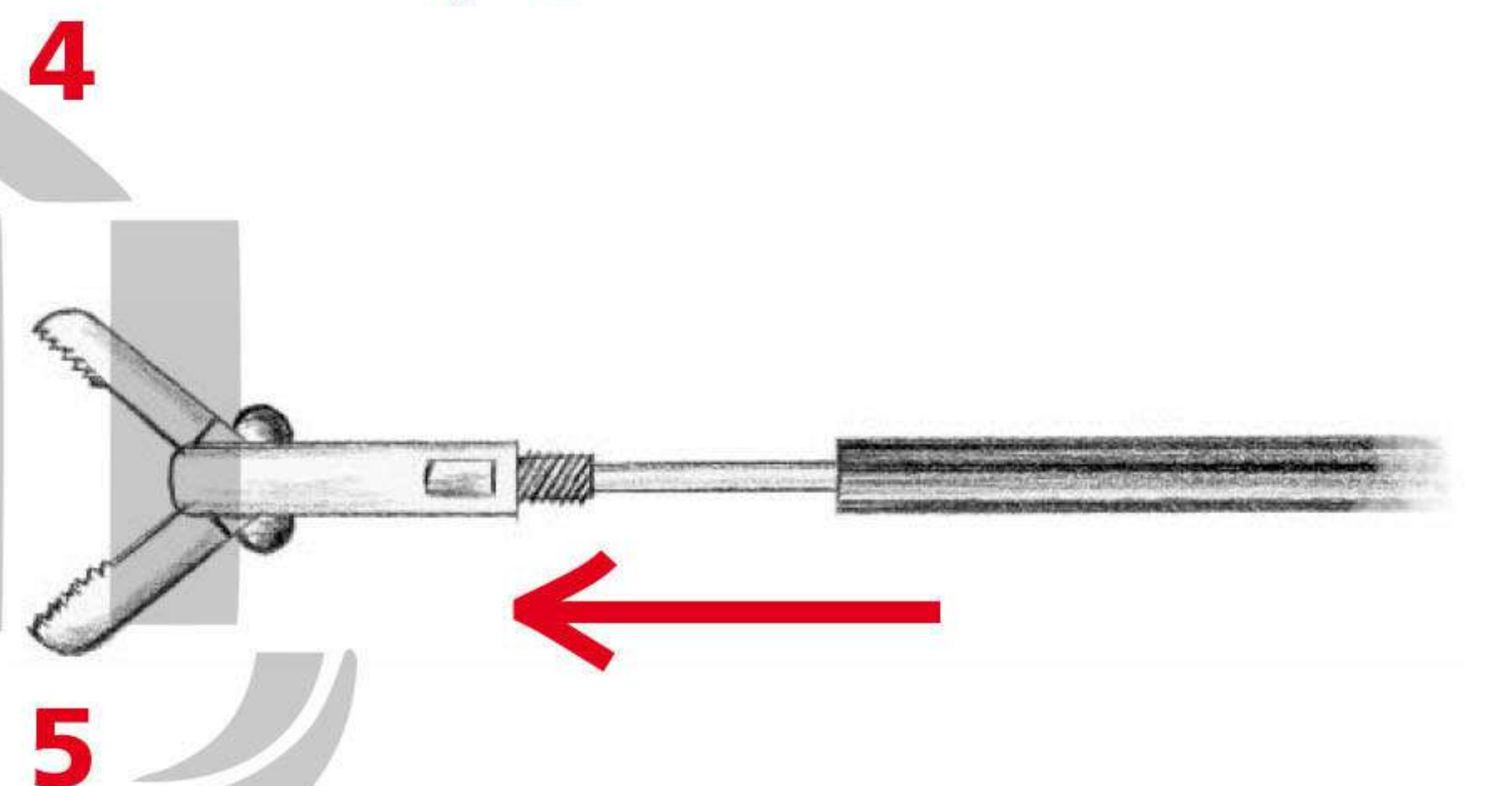
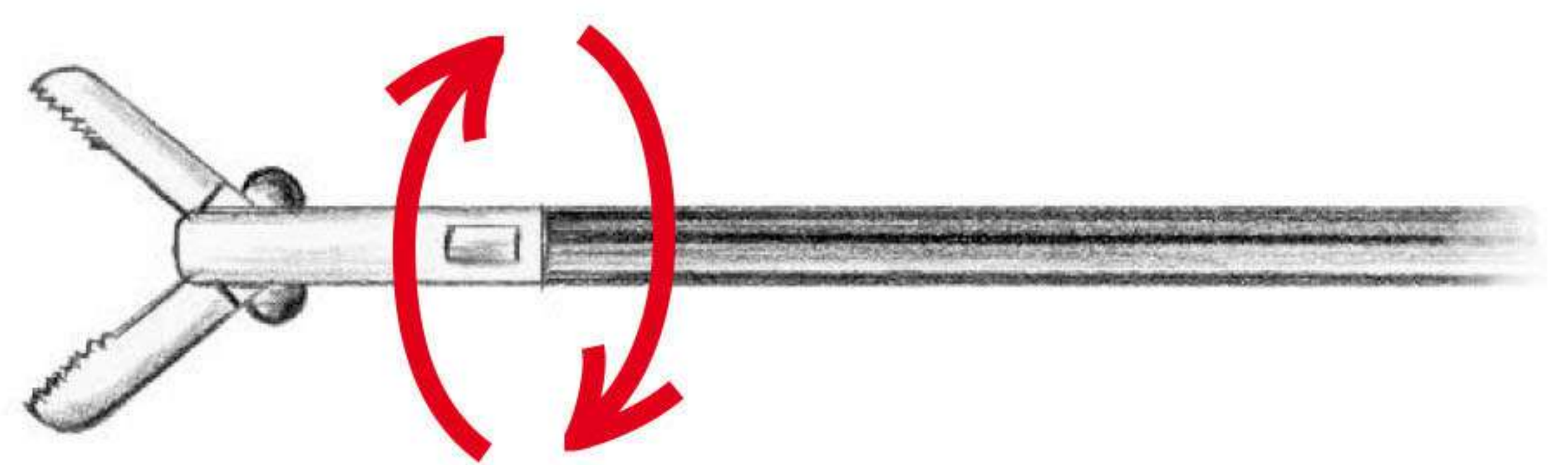
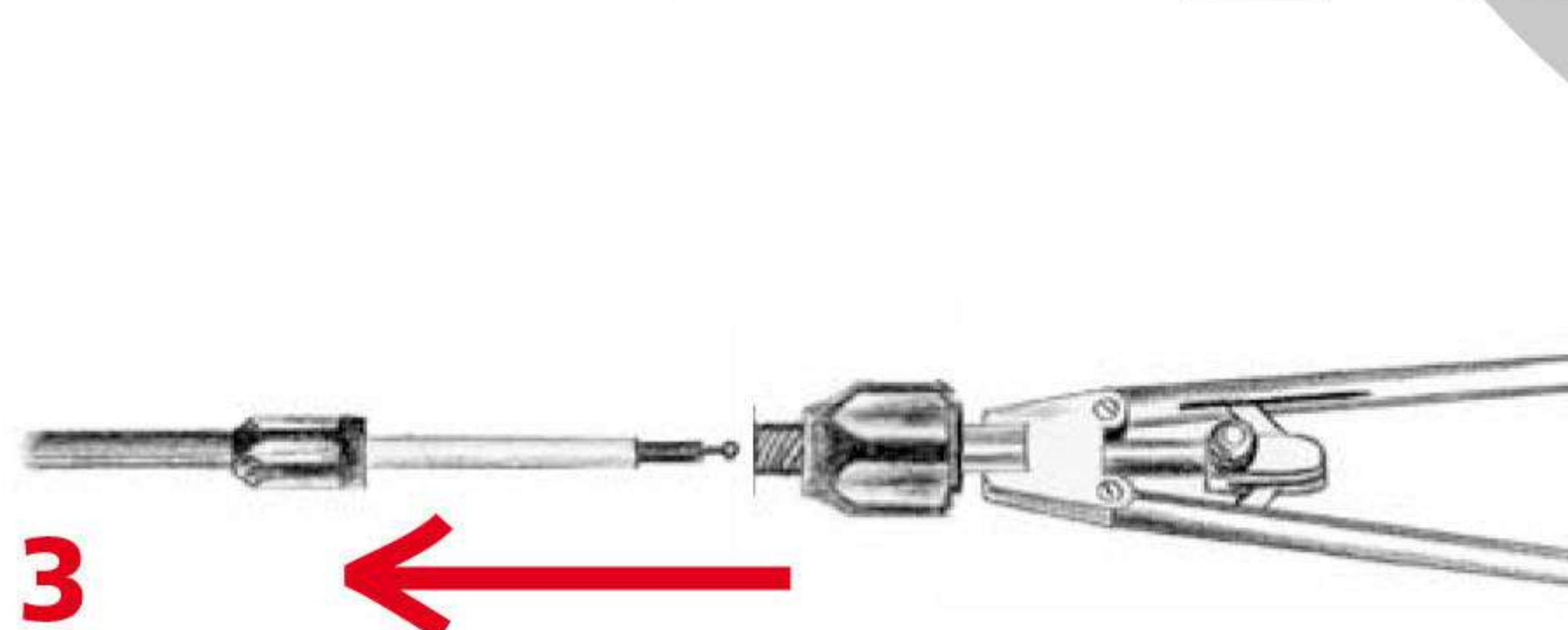
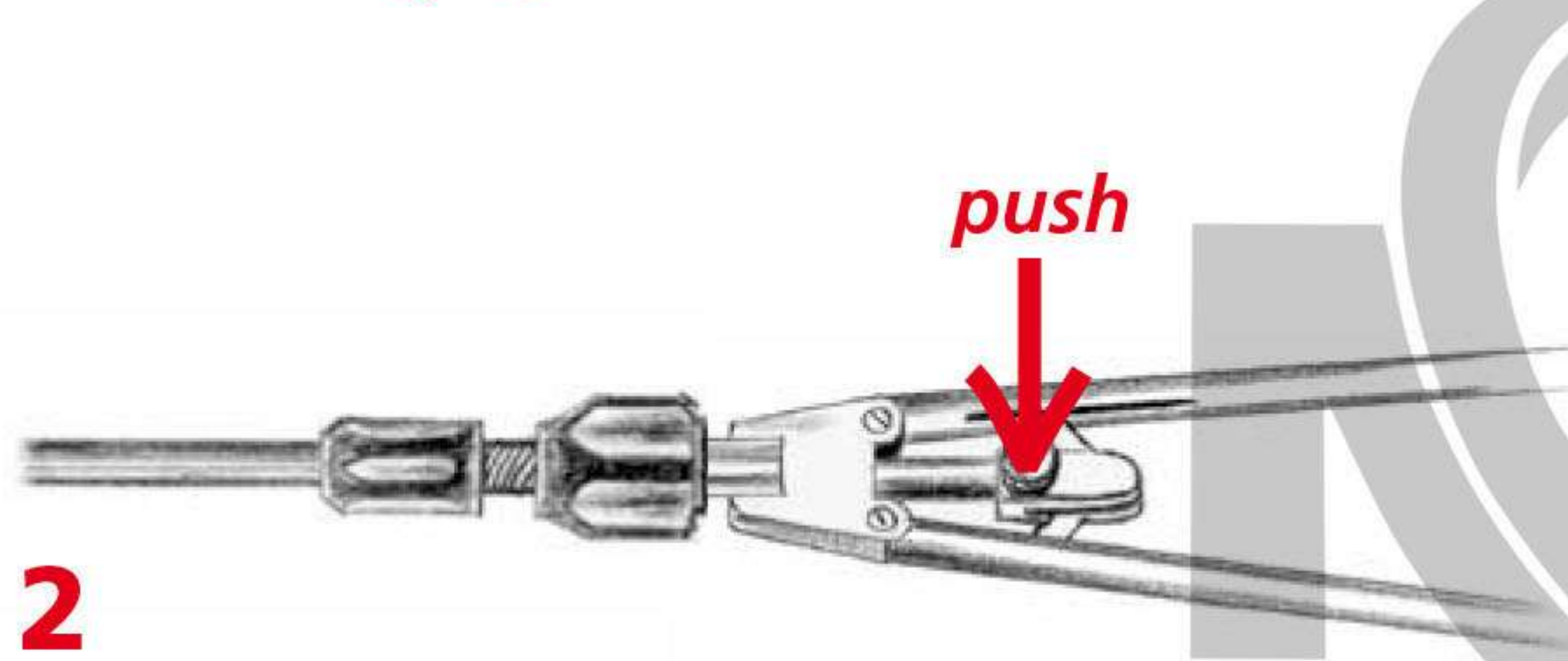
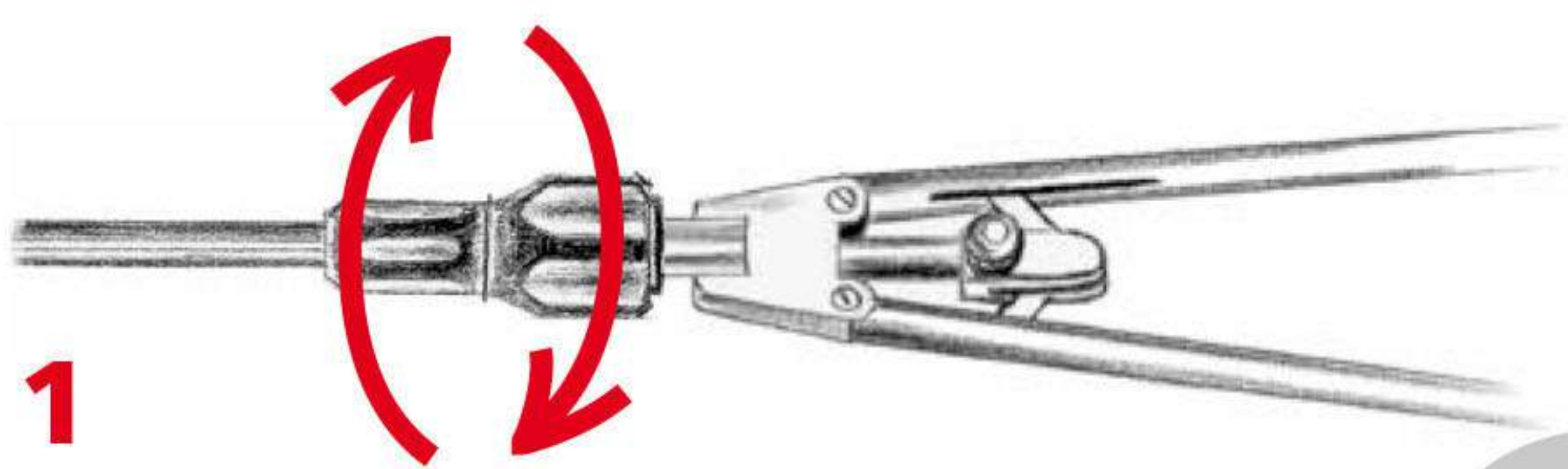
**Reassembling of the instrument in reverse order!**  
Please pay attention that all screw joints are fixed carefully!





**Zerlegen  
des Instruments**

**Detaching  
of the Instrument**



1. Griff öffnen und Lamellen-Schrauben am Schaft gegeneinander drehen.
2. Knopf drücken und gleichzeitig
3. den Schaft incl. Zugdraht ausklinken und vom Griff lösen.
4. Maulteil und Schaft gegeneinander drehen.
5. Maulteil vom Schaft lösen.

**Montage des Instruments in umgekehrter Reihenfolge!**  
Bitte darauf achten, daß alle Schraubverbindungen wieder fest angezogen werden!

1. Open the handle and turn lamina screws on the shaft against each other.
2. Push the button and
3. At the same time unlink the shaft incl. the insert from back handle part and take it off from the handle.
4. Turn jaw part and shaft against each other.
5. Pull out jaw part from shaft.

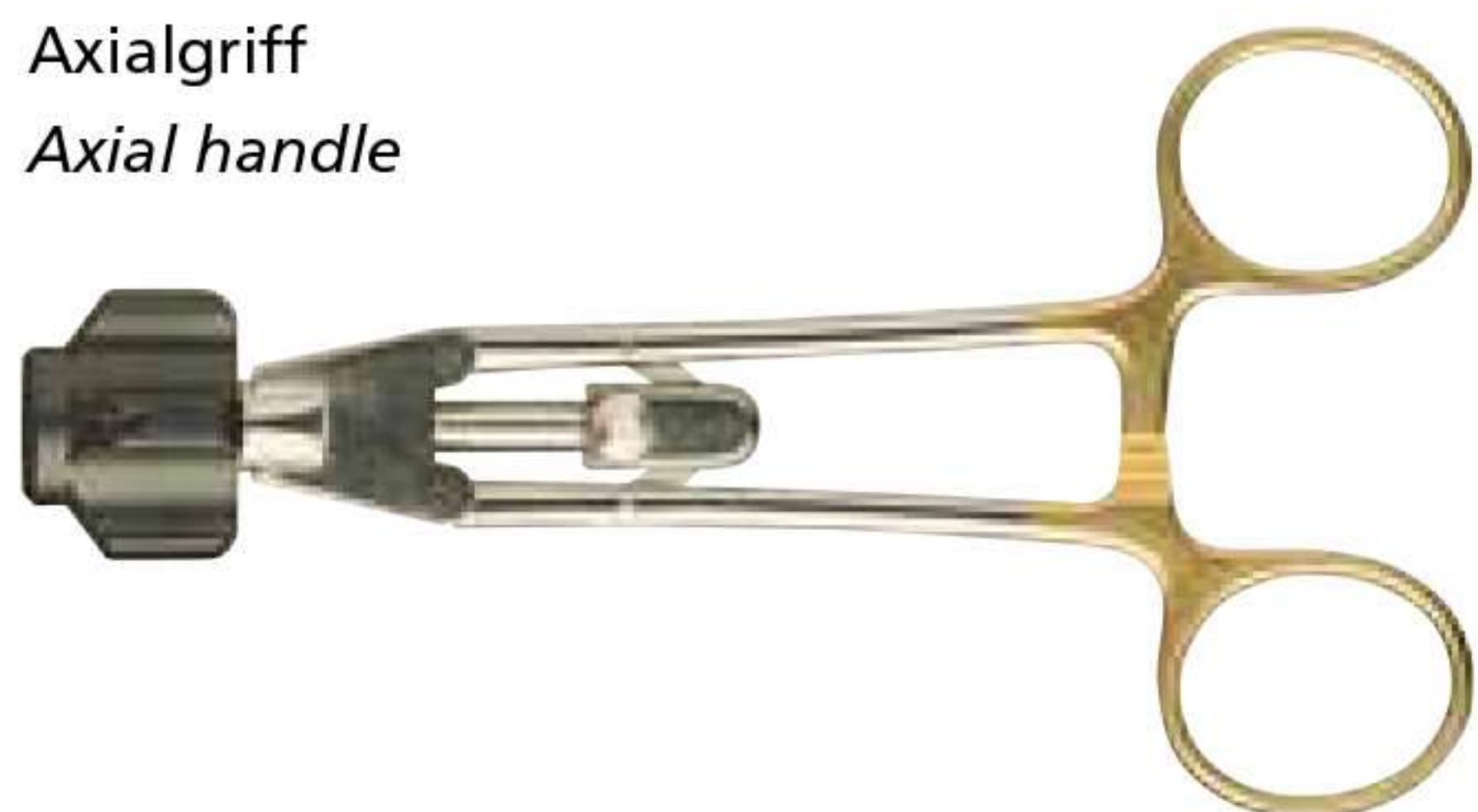
**Reassembling of the instrument in reverse order!**  
Please pay attention that all screw joints are fixed carefully!





## Griffe Handles

Axialgriff  
*Axial handle*



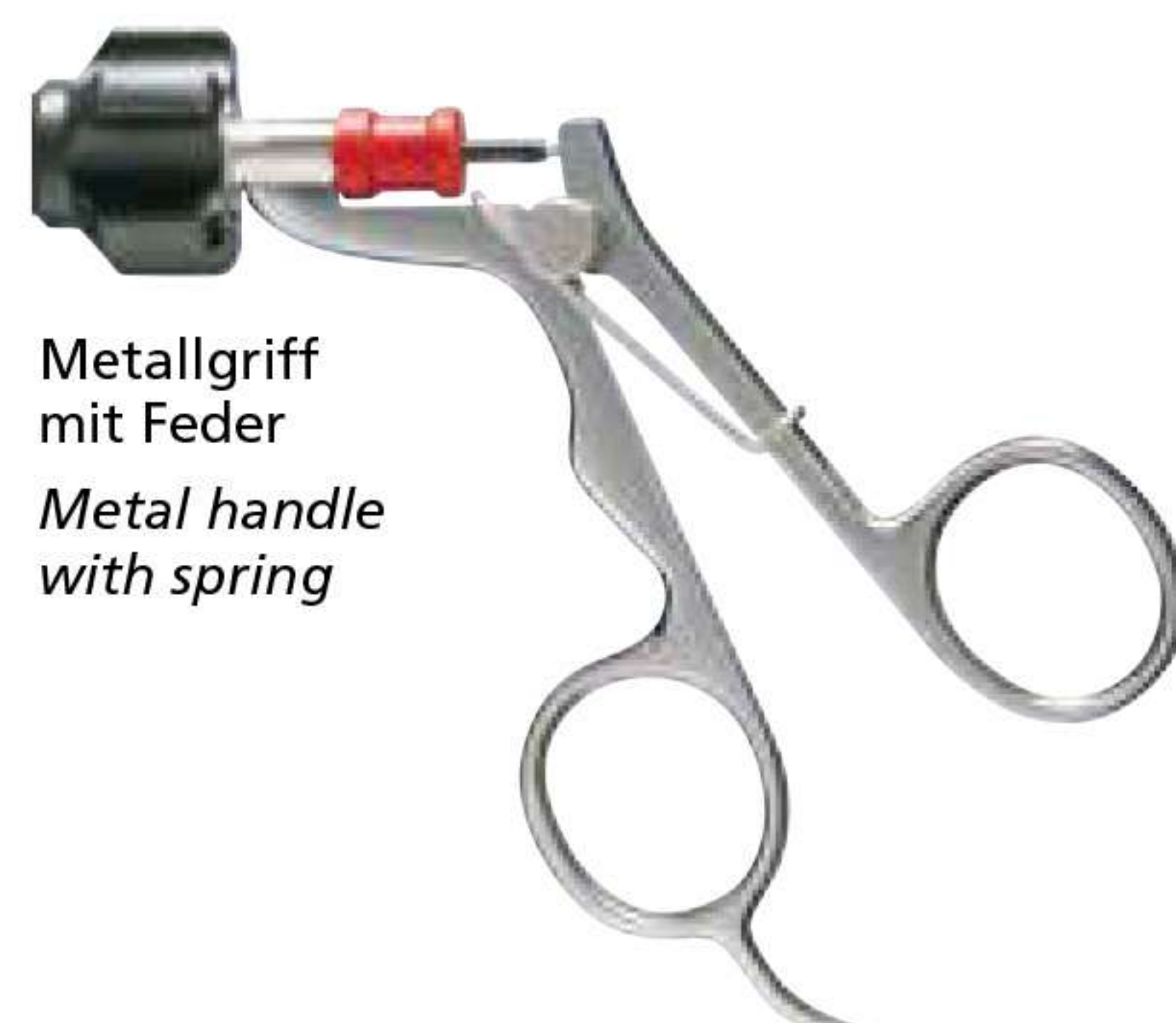
MI-000-000

Metallgriff  
*Metal handle*



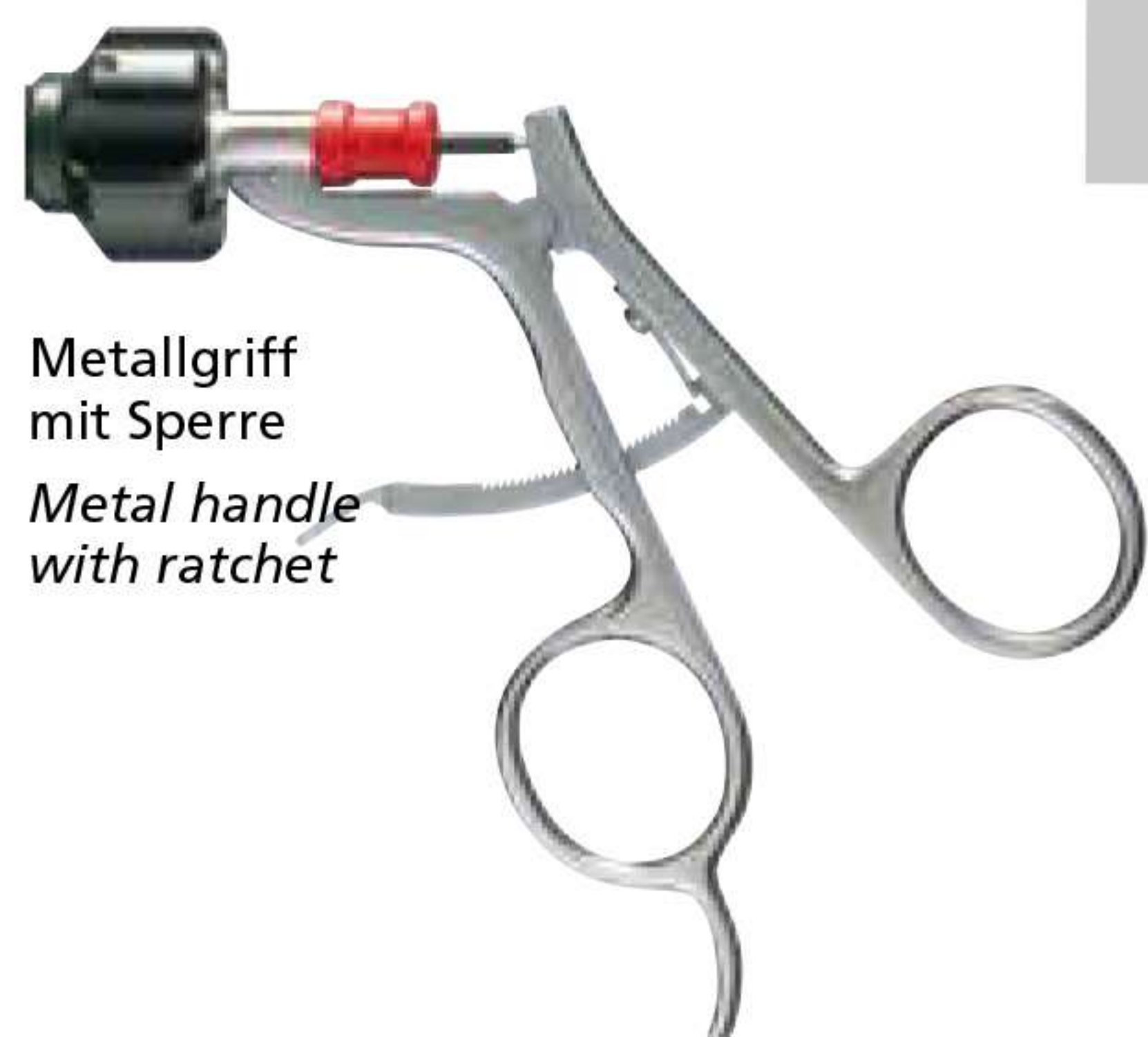
MI-000-000

Metallgriff  
mit Feder  
*Metal handle  
with spring*



MI-000-000

Metallgriff  
mit Sperre  
*Metal handle  
with ratchet*



MI-000-000

Metallgriff  
isoliert mit  
klappbarer  
Sperre  
*Metal handle  
insulated  
with flap  
ratchet*



MI-000-000

Metallgriff  
isoliert  
*Metal handle  
insulated*



MI-000-000

Kunststoff-  
griff  
*Plastic  
handle*



MI-000-000

Kunststoffgriff  
mit deaktivier-  
barer Sperre  
*Plastic  
handle with  
deactivatable  
ratchet*



MI-000-000





Scheren ohne Hartmetall  
Scissors without Tungsten Carbide

|                                                                                                           |                                                                                      | Länge Maulteil<br>Length jaw part | einfach beweglich<br>single action | doppelt beweglich<br>double action | Ø mm             | Länge mm<br>Length mm    | Einsatz ohne<br>Schaft<br>Insert without<br>shaft    |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------|--------------------------|------------------------------------------------------|
| Hakenschere<br>Hook Scissors                                                                              |  | 8                                 | ×                                  |                                    | 5<br>5           | 330<br>450               | MI-533-501<br>MI-545-501                             |
| Schere, gerade<br>Scissors, straight                                                                      |  | 11                                | ×                                  |                                    | 5                | 330                      | MI-533-510                                           |
| Schere, links gebogen<br>Scissors, left curved                                                            |  | 11                                | ×                                  |                                    | 5                | 330                      | MI-533-515                                           |
| Metzenbaum-Schere,<br>gerade<br>Metzenbaum Scissors,<br>straight                                          |  | 15                                |                                    | ×                                  | 5<br>5           | 330<br>450               | MI-533-530<br>MI-545-530                             |
| Metzenbaum-Schere,<br>gebogen, dünnes Blatt<br>Metzenbaum Scissors,<br>curved, thin blade                 |  | 14                                |                                    | ×                                  | 5                | 330                      | MI-533-533                                           |
| Metzenbaum-Schere,<br>links gebogen,<br>Metzenbaum Scissors,<br>left curved,                              |  | 10<br>15                          |                                    | ×                                  | 3<br>3<br>5<br>5 | 250<br>330<br>330<br>450 | MI-325-535<br>MI-333-535<br>MI-533-535<br>MI-545-535 |
| Metzenbaum-Schere,<br>gebogen, kurzes dünnes<br>Blatt<br>Metzenbaum Scissors,<br>curved, short thin blade |  | 15                                |                                    | ×                                  | 5<br>5           | 330<br>450               | MI-533-539<br>MI-545-539                             |
| Mikro-Schere<br>Micro Scissors                                                                            |  | 6                                 | ×                                  |                                    | 5                | 330                      | MI-533-550                                           |
| Große OP-Schere<br>Large Operating<br>Scissors                                                            |  | 22                                | ×                                  |                                    | 10               | 330                      | MI-133-590                                           |



| Metallgriff<br>Metal handle                                                       | Metallgriff,<br>isoliert<br>Metal handle,<br>insulated                             | Kunststoffgriff<br>Plastic handle                                                   |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
| MI-533-501<br>MI-545-501                                                          | MI-533-501<br>MI-545-501                                                           | MI-533-501<br>MI-545-501                                                            |
| MI-533-510                                                                        | MI-533-510                                                                         | MI-533-510                                                                          |
| MI-533-515                                                                        | MI-533-515                                                                         | MI-533-515                                                                          |
| MI-533-530<br>MI-545-530                                                          | MI-533-530<br>MI-545-530                                                           | MI-533-530<br>MI-545-530                                                            |
| MI-533-533                                                                        | MI-533-533                                                                         | MI-533-533                                                                          |
| MI-325-535<br>MI-333-535<br>MI-533-535<br>MI-545-535                              | MI-325-535<br>MI-333-535<br>MI-533-535<br>MI-545-535                               | MI-325-535<br>MI-333-535<br>MI-533-535<br>MI-545-535                                |
| MI-533-539<br>MI-545-539                                                          | MI-533-539<br>MI-545-539                                                           | MI-533-539<br>MI-545-539                                                            |
| MI-533-550                                                                        | MI-533-550                                                                         | MI-533-550                                                                          |
| MI-133-590                                                                        | MI-133-590                                                                         | MI-133-590                                                                          |





Metallgriff  
Metal handle



Metallgriff,  
isoliert  
Metal handle,  
insulated



Kunststoffgriff  
Plastic handle

MI-533-510HM

MI-533-510HM

MI-533-510HM

MI-533-515HM

MI-533-515HM

MI-533-515HM

MI-533-530HM

MI-533-530HM

MI-533-530HM

MI-533-535HM  
MI-545-535HM

MI-533-535HM  
MI-545-535HM

MI-533-535HM  
MI-545-535HM

MI-133-590HM

MI-133-590HM

MI-133-590HM





Faßzangen  
Grasping Forceps

Faßzange gezahnt  
Grasping Forceps serrated



| Länge Maulteil*<br>Length jaw part* | einfach beweglich<br>single action | doppelt beweglich<br>double action | Ø mm | Länge mm<br>Length mm | Einsatz ohne<br>Schaft<br>Insert without<br>shaft |
|-------------------------------------|------------------------------------|------------------------------------|------|-----------------------|---------------------------------------------------|
| 7                                   |                                    | ×                                  | 3    | 250                   | MI-325-680                                        |
|                                     |                                    |                                    | 3    | 330                   | MI-333-680                                        |
|                                     |                                    |                                    | 5    | 330                   | MI-533-680                                        |
|                                     |                                    |                                    | 5    | 450                   | MI-545-680                                        |
| 12                                  |                                    | ×                                  | 5    | 330                   | MI-533-700                                        |
|                                     |                                    |                                    |      |                       |                                                   |
| 7                                   |                                    | ×                                  | 3    | 250                   | MI-325-610                                        |
|                                     |                                    |                                    | 3    | 330                   | MI-333-610                                        |
|                                     |                                    |                                    | 5    | 330                   | MI-533-610                                        |
|                                     |                                    |                                    | 5    | 450                   | MI-545-610                                        |
| 12                                  |                                    | ×                                  | 5    | 330                   | MI-533-630                                        |
|                                     |                                    |                                    |      |                       |                                                   |
| 12                                  |                                    | ×                                  | 5    | 450                   | MI-545-630                                        |
|                                     |                                    |                                    |      |                       |                                                   |
| 18                                  |                                    | ×                                  | 5    | 330                   | MI-533-631                                        |
|                                     |                                    |                                    | 5    | 450                   | MI-545-631                                        |

Spitze Faßzange  
Tapered Grasping Forceps



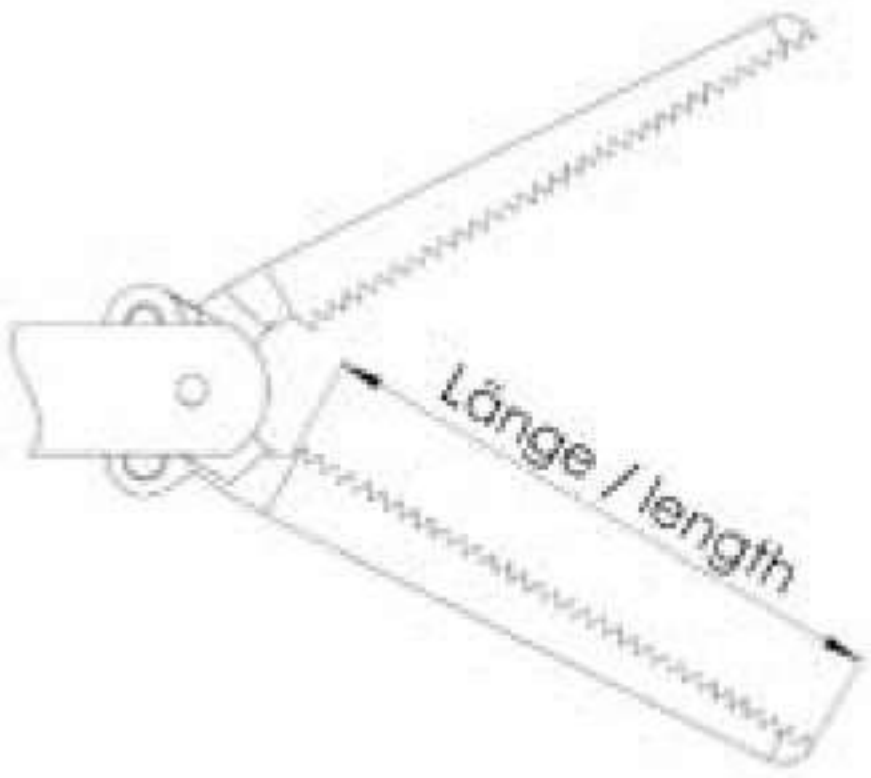
Delphin Faßzange  
Dolphine-Nose Forceps



Fundus Faßzange  
Fundus Forceps



Fundus Faßzange, lang  
Fundus Forceps, long



\*Richtwert - kein Prüfmaß  
\*Approx. value - no inspection dimension



| <div> <div>Metallgriff</div> <div>Metal handle</div>  </div> | <div> <div>Metallgriff, isoliert</div> <div>Metal handle, insulated</div>  </div> | <div> <div>Metallgriff, isoliert</div> <div>Metal handle, insulated</div>  </div> | <div> <div>Kunststoffgriff</div> <div>Plastic handle</div>  </div> | <div> <div>Kunststoffgriff</div> <div>Plastic handle</div>  </div> |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <div>MI-325-680</div> <div>MI-333-680</div> <div>MI-533-680</div> <div>MI-545-680</div> </div>                                          | <div> <div>MI-325-680</div> <div>MI-333-680</div> <div>MI-533-680</div> <div>MI-545-680</div> </div>                                                               | <div> <div>MI-325-680</div> <div>MI-333-680</div> <div>MI-533-680</div> <div>MI-545-680</div> </div>                                                                 | <div> <div>MI-325-680</div> <div>MI-333-680</div> <div>MI-533-680</div> <div>MI-545-680</div> </div>                                                  | <div> <div>MI-325-680</div> <div>MI-333-680</div> <div>MI-533-680</div> <div>MI-545-680</div> </div>                                                  |
| <div> <div>MI-533-700</div> </div>                                                                                                            | <div> <div>MI-533-700</div> </div>                                                                                                                                 | <div> <div>MI-533-700</div> </div>                                                                                                                                   | <div> <div>MI-533-700</div> </div>                                                                                                                    | <div> <div>MI-533-700</div> </div>                                                                                                                    |
| <div> <div>MI-325-610</div> <div>MI-333-610</div> <div>MI-533-610</div> <div>MI-545-610</div> </div>                                          | <div> <div>MI-325-610</div> <div>MI-333-610</div> <div>MI-533-610</div> <div>MI-545-610</div> </div>                                                               | <div> <div>MI-325-610</div> <div>MI-333-610</div> <div>MI-533-610</div> <div>MI-545-610</div> </div>                                                                 | <div> <div>MI-325-610</div> <div>MI-333-610</div> <div>MI-533-610</div> <div>MI-545-610</div> </div>                                                  | <div> <div>MI-325-610</div> <div>MI-333-610</div> <div>MI-533-610</div> <div>MI-545-610</div> </div>                                                  |
| <div> <div>MI-533-630</div> <div>MI-545-630</div> </div>                                                                                      | <div> <div>MI-533-630</div> <div>MI-545-630</div> </div>                                                                                                           | <div> <div>MI-533-630</div> <div>MI-545-630</div> </div>                                                                                                             | <div> <div>MI-533-630</div> <div>MI-545-630</div> </div>                                                                                              | <div> <div>MI-533-630</div> <div>MI-545-630</div> </div>                                                                                              |
| <div> <div>MI-533-631</div> <div>MI-545-631</div> </div>                                                                                      | <div> <div>MI-533-631</div> <div>MI-545-631</div> </div>                                                                                                           | <div> <div>MI-533-631</div> <div>MI-545-631</div> </div>                                                                                                             | <div> <div>MI-533-631</div> <div>MI-545-631</div> </div>                                                                                              | <div> <div>MI-533-631</div> <div>MI-545-631</div> </div>                                                                                              |



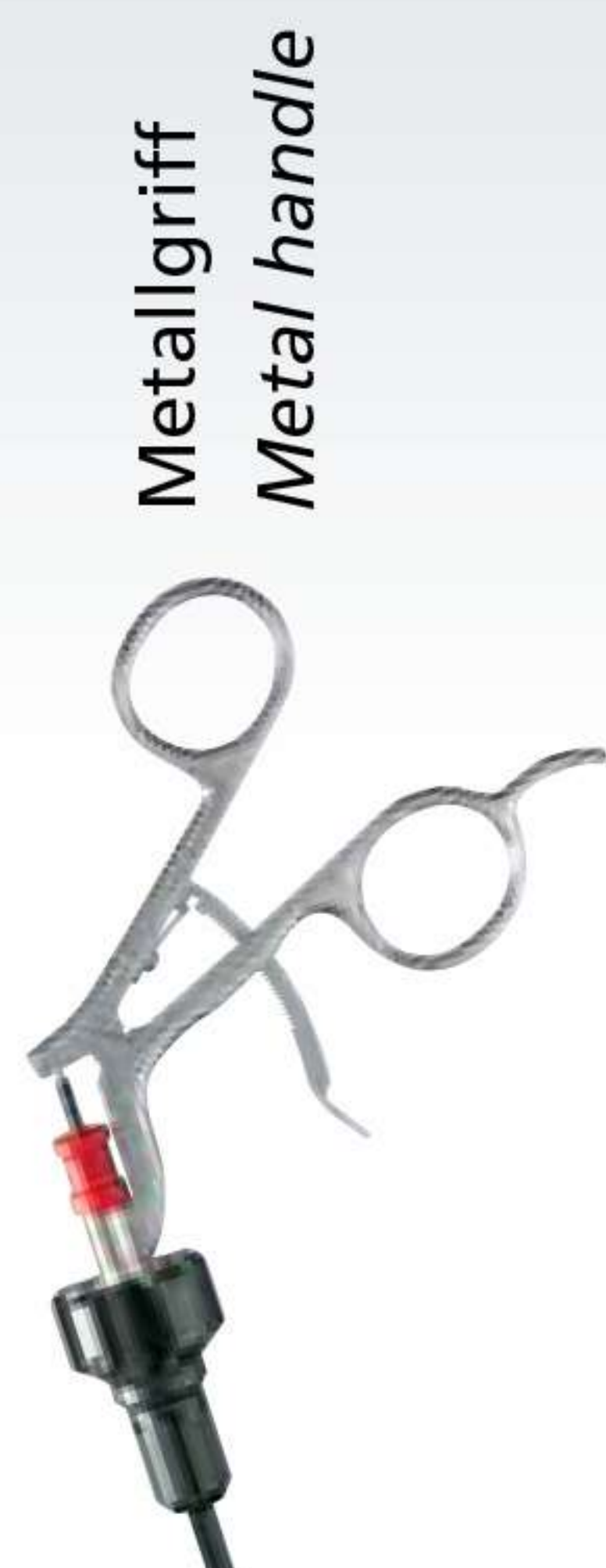


Faßzangen

Grasping Forceps

|                                                                     |                                                                                      | Länge Maulteil<br>Length jaw part | einfach beweglich<br>single action | doppelt beweglich<br>double action | Ø mm | Länge mm<br>Length mm | Einsatz ohne<br>Schaft<br>Insert without<br>shaft |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------|------------------------------------|------------------------------------|------|-----------------------|---------------------------------------------------|
| Faßzange konisch<br>Grasping Forceps conical                        |   |                                   |                                    |                                    |      |                       |                                                   |
| Atraumatische Faßzange<br>Atraumatic Grasping Forceps               |  | 13                                |                                    | ×                                  | 5    | 330                   | MI-533-780                                        |
|                                                                     |                                                                                      | 13                                |                                    | ×                                  | 5    | 330                   | MI-533-581                                        |
| Faßzange fein gezahnt<br>Grasping Forceps fine serrated             |  |                                   |                                    |                                    | 3    | 250                   | MI-325-720                                        |
|                                                                     |                                                                                      | 12                                |                                    | ×                                  | 3    | 330                   | MI-333-720                                        |
|                                                                     |                                                                                      |                                   |                                    |                                    | 5    | 330                   | MI-533-720                                        |
|                                                                     |                                                                                      |                                   |                                    |                                    | 5    | 450                   | MI-545-720                                        |
| Faßzange fein gezahnt, lang<br>Grasping Forceps fine serrated, long |  |                                   |                                    |                                    | 5    | 330                   | MI-533-721                                        |
|                                                                     |                                                                                      | 17                                |                                    | ×                                  | 5    | 450                   | MI-545-721                                        |
| Faßzange grob gezahnt<br>Grasping Forceps serrated                  |  | 12                                |                                    | ×                                  | 5    | 330                   | MI-533-731                                        |
|                                                                     |                                                                                      |                                   |                                    |                                    | 5    | 450                   | MI-545-731                                        |
| Faßzange grob gezahnt, lang<br>Grasping Forceps serrated, long      |  | 17                                |                                    | ×                                  | 5    | 330                   | MI-533-732                                        |
|                                                                     |                                                                                      |                                   |                                    |                                    | 5    | 450                   | MI-545-732                                        |
| Alligator-Faßzange<br>Alligator Forceps                             |  | 7                                 |                                    | ×                                  | 3    | 250                   | MI-325-820                                        |
|                                                                     |                                                                                      |                                   |                                    |                                    | 3    | 330                   | MI-333-820                                        |
|                                                                     |                                                                                      | 12                                |                                    | ×                                  | 5    | 330                   | MI-533-821                                        |
|                                                                     |                                                                                      |                                   |                                    |                                    | 5    | 450                   | MI-545-821                                        |
| Alligator-Faßzange, lang<br>Alligator Forceps, long                 |  | 17                                |                                    | ×                                  | 5    | 330                   | MI-533-822                                        |
|                                                                     |                                                                                      |                                   |                                    |                                    | 5    | 450                   | MI-545-822                                        |





MI-533-780



MI-533-780



MI-533-780



MI-533-780



MI-533-780

MI-533-581

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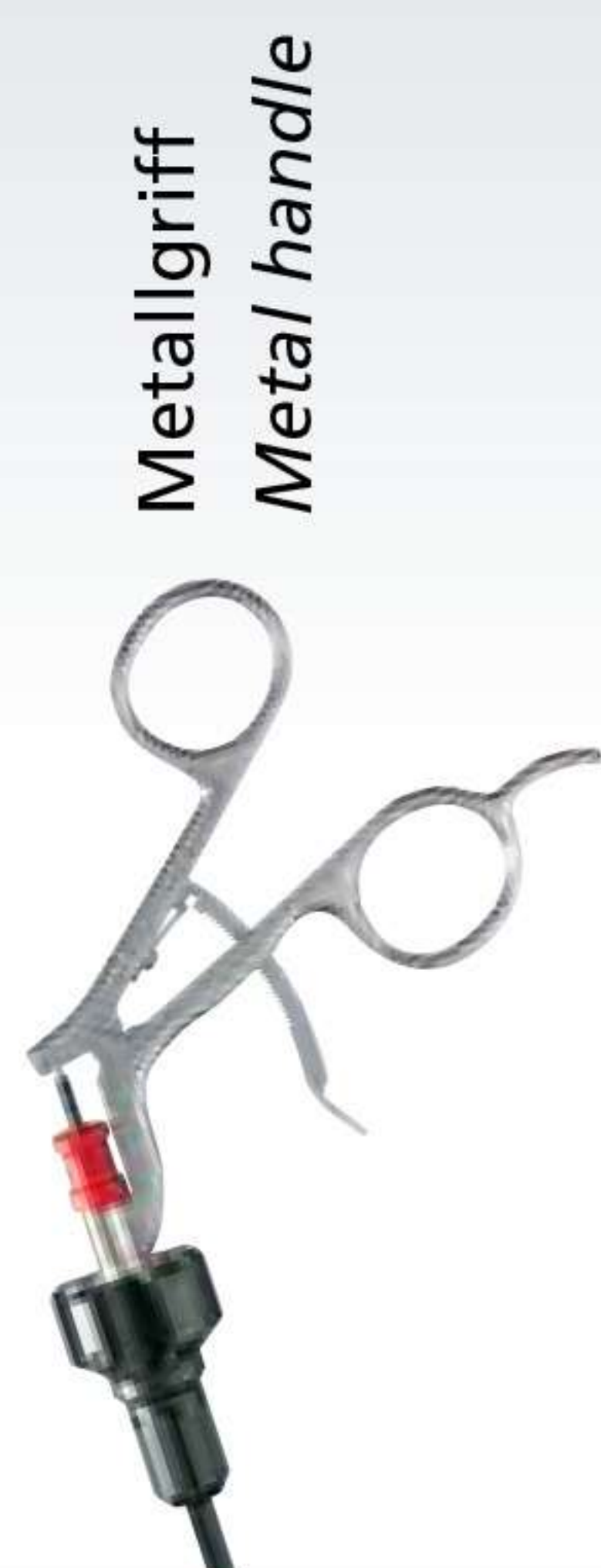


Faßzangen

Grasping Forceps

|                                                                                     |  | Länge Maulteil*<br>Length jaw part* | einfach beweglich<br>single action | doppelt beweglich<br>double action | Ø mm | Länge mm<br>Length mm | Einsatz ohne<br>Schaft<br>Insert without<br>shaft |
|-------------------------------------------------------------------------------------|--|-------------------------------------|------------------------------------|------------------------------------|------|-----------------------|---------------------------------------------------|
| Faßzange, grob gezahnt,<br>Fenster<br><i>Fenestrated Forceps,<br/>serrated</i>      |  | 15                                  |                                    | ×                                  | 5    | 330                   | MI-533-670                                        |
|                                                                                     |  |                                     |                                    |                                    | 5    | 450                   | MI-545-670                                        |
|                                                                                     |  |                                     |                                    |                                    | 10   | 330                   | MI-133-690                                        |
| Faßzange, fein gezahnt,<br>Fenster<br><i>Fenestrated Forceps, fine<br/>serrated</i> |  | 16                                  |                                    |                                    | 10   | 450                   | MI-145-690                                        |
|                                                                                     |  |                                     |                                    |                                    |      |                       |                                                   |
| Faßzange, fein gezahnt,<br>Fenster<br><i>Fenestrated Forceps, fine<br/>serrated</i> |  | 9                                   |                                    | ×                                  | 3    | 330                   | MI-333-710                                        |
|                                                                                     |  | 15                                  |                                    |                                    | 5    | 330                   | MI-533-710                                        |
|                                                                                     |  |                                     |                                    |                                    | 5    | 450                   | MI-545-710                                        |
| Faßzange, fein gezahnt,<br>Fenster<br><i>Fenestrated Forceps, fine<br/>serrated</i> |  | 12                                  | ×                                  |                                    | 3    | 250                   | MI-325-714                                        |
|                                                                                     |  |                                     |                                    |                                    | 3    | 330                   | MI-333-714                                        |
|                                                                                     |  | 18                                  |                                    |                                    | 5    | 330                   | MI-533-714                                        |
|                                                                                     |  |                                     |                                    |                                    | 5    | 450                   | MI-545-714                                        |
| Faßzange, fein gezahnt,<br>Fenster<br><i>Fenestrated Forceps,<br/>fine serrated</i> |  | 12                                  |                                    | ×                                  | 3    | 250                   | MI-325-716                                        |
|                                                                                     |  |                                     |                                    |                                    | 3    | 330                   | MI-333-716                                        |
|                                                                                     |  | 19                                  |                                    |                                    | 5    | 330                   | MI-533-716                                        |
|                                                                                     |  |                                     |                                    |                                    | 5    | 450                   | MI-545-716                                        |
| Faßzange, fein gezahnt,<br>Fenster<br><i>Fenestrated Forceps,<br/>fine serrated</i> |  | 13                                  | ×                                  |                                    | 3    | 330                   | MI-333-717                                        |
|                                                                                     |  | 20                                  |                                    |                                    | 5    | 330                   | MI-533-717                                        |
|                                                                                     |  |                                     |                                    |                                    | 5    | 450                   | MI-545-717                                        |
| Faßzange, fein gezahnt,<br>Fenster<br><i>Fenestrated Forceps,<br/>fine serrated</i> |  | 13                                  |                                    | ×                                  | 3    | 250                   | MI-325-718                                        |
|                                                                                     |  |                                     |                                    |                                    | 3    | 330                   | MI-333-718                                        |
|                                                                                     |  | 22                                  |                                    |                                    | 5    | 330                   | MI-533-718                                        |
|                                                                                     |  |                                     |                                    |                                    | 5    | 450                   | MI-545-718                                        |
| Faßzange, grob gezahnt,<br>Fenster<br><i>Fenestrated Forceps,<br/>serrated</i>      |  | 20                                  |                                    | ×                                  | 5    | 330                   | MI-533-672                                        |
|                                                                                     |  |                                     |                                    |                                    | 5    | 450                   | MI-545-672                                        |
| Faßzange, fein gezahnt,<br>Fenster<br><i>Fenestrated Forceps,<br/>fine serrated</i> |  | 17                                  |                                    | ×                                  | 5    | 330                   | MI-533-708                                        |
|                                                                                     |  |                                     |                                    |                                    | 5    | 450                   | MI-545-708                                        |





|            |            |            |            |            |
|------------|------------|------------|------------|------------|
| MI-533-670 | MI-533-670 | MI-533-670 | MI-533-670 | -533-670   |
| MI-545-670 | MI-545-670 | MI-545-670 | MI-545-670 | -545-670   |
| MI-133-690 | MI-133-690 | MI-133-690 | MI-133-690 | -133-690   |
| MI-145-690 | MI-145-690 | MI-145-690 | MI-145-690 | -145-690   |
| MI-333-710 | MI-333-710 | MI-333-710 | MI-333-710 | MI-333-710 |
| MI-533-710 | MI-533-710 | MI-533-710 | MI-533-710 | MI-533-710 |
| MI-545-710 | MI-545-710 | MI-545-710 | MI-545-710 | MI-545-710 |
| MI-325-714 | MI-325-714 | MI-325-714 | MI-325-714 | MI-325-714 |
| MI-333-714 | MI-333-714 | MI-333-714 | MI-333-714 | MI-333-714 |
| MI-533-714 | MI-533-714 | MI-533-714 | MI-533-714 | MI-533-714 |
| MI-545-714 | MI-545-714 | MI-545-714 | MI-545-714 | MI-545-714 |
| MI-325-716 | MI-325-716 | MI-325-716 | MI-325-716 | MI-325-716 |
| MI-333-716 | MI-333-716 | MI-333-716 | MI-333-716 | MI-333-716 |
| MI-533-716 | MI-533-716 | MI-533-716 | MI-533-716 | MI-533-716 |
| MI-545-716 | MI-545-716 | MI-545-716 | MI-545-716 | MI-545-716 |
| MI-333-717 | MI-333-717 | MI-333-717 | MI-333-717 | MI-333-717 |
| MI-533-717 | MI-533-717 | MI-533-717 | MI-533-717 | MI-533-717 |
| MI-545-717 | MI-545-717 | MI-545-717 | MI-545-717 | MI-545-717 |
| MI-325-718 | MI-325-718 | MI-325-718 | MI-325-718 | MI-325-718 |
| MI-333-718 | MI-333-718 | MI-333-718 | MI-333-718 | MI-333-718 |
| MI-533-718 | MI-533-718 | MI-533-718 | MI-533-718 | MI-533-718 |
| MI-545-718 | MI-545-718 | MI-545-718 | MI-545-718 | MI-545-718 |
| MI-533-672 | MI-533-672 | MI-533-672 | MI-533-672 | MI-533-672 |
| MI-545-672 | MI-545-672 | MI-545-672 | MI-545-672 | MI-545-672 |
| MI-533-708 | MI-533-708 | MI-533-708 | MI-533-708 | MI-533-708 |
| MI-545-708 | MI-545-708 | MI-545-708 | MI-545-708 | MI-545-708 |





Faßzangen

Grasping Forceps

Faßzange, extra schmal und kurz, Fenster

Fenestrated Forceps,extra narrow and short



Faßzange, gewölbt, gezahnt, Fenster

Fenestrated Forceps, arched, serrated



Lange Faßzange, fein gezahnt, mit Fenster, dünne Stege

Long fenestred Forceps, fine bars



Faßzange, gezahnt, Löffel

Grasping Forceps, serrated, spoon



Faßzange, gezahnt, Löffel

Grasping Forceps, serrated, spoon

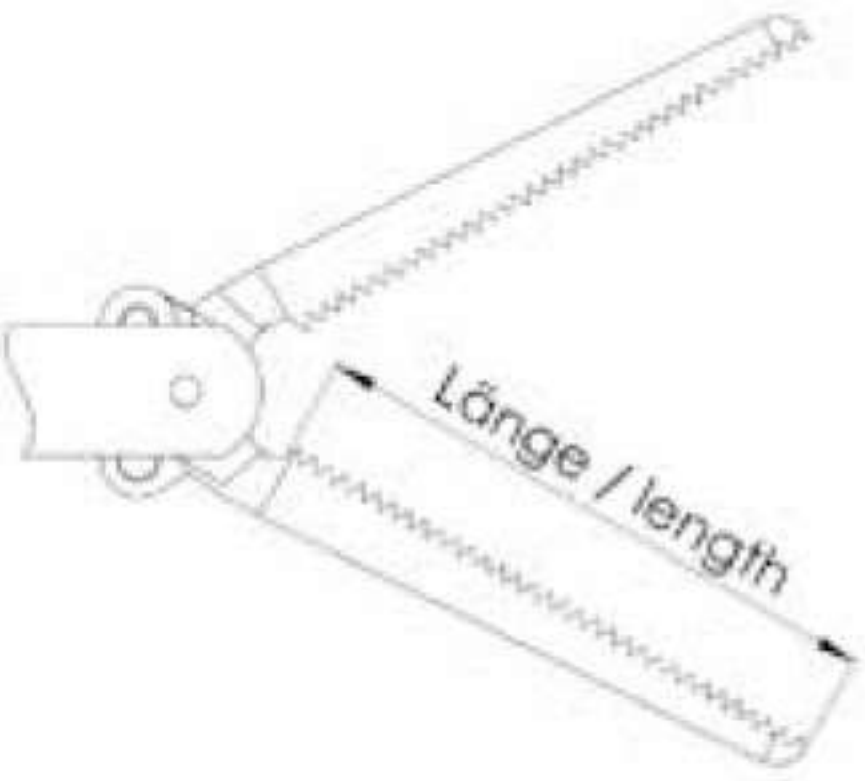


Faßzange, gezahnt, 2 x 3 Zähne

Grasping Forceps, serrated, 2 x 3 teeth



| Länge Maulteil*<br>Length jaw part* | einfach beweglich<br>single action | doppelt beweglich<br>double action | Ø mm             | Länge mm<br>Length mm    | Einsatz ohne<br>Schaft<br>Insert without<br>shaft    |
|-------------------------------------|------------------------------------|------------------------------------|------------------|--------------------------|------------------------------------------------------|
| 10                                  |                                    | ×                                  | 5                | 330                      | MI-533-712                                           |
| 11                                  |                                    | ×                                  | 5                | 330                      | MI-533-713                                           |
| 18                                  | ×                                  |                                    | 5                | 330                      | MI-533-719                                           |
| 20                                  | ×                                  |                                    | 5<br>5           | 330<br>450               | MI-533-682<br>MI-545-682                             |
| 12                                  |                                    | ×                                  | 3<br>3<br>5<br>5 | 250<br>330<br>330<br>450 | MI-325-683<br>MI-333-683<br>MI-533-683<br>MI-545-683 |
| 19                                  |                                    |                                    |                  |                          |                                                      |
| 17                                  | ×                                  |                                    | 5<br>5           | 330<br>450               | MI-533-742<br>MI-545-742                             |



\*Richtwert - kein Prüfmaß

\*Approx. value - no inspection dimension



| <div> <div>Metallgriff<br/>Metal handle</div> <div>Metallgriff,<br/>isoliert<br/>Metal handle,<br/>insulated</div> <div>Metallgriff,<br/>isoliert<br/>Metal handle,<br/>insulated</div> <div>Kunststoffgriff<br/>Plastic handle</div> <div>Kunststoffgriff<br/>Plastic handle</div> </div>                                                                                                                                                   |                                                      |                                                      |                                                      |                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| <div>      </div> |                                                      |                                                      |                                                      |                                                      |
| MI-533-712                                                                                                                                                                                                                                                                                                                                                                                                                                   | MI-533-712                                           | MI-533-712                                           | MI-533-712                                           | MI-533-712                                           |
| MI-533-713                                                                                                                                                                                                                                                                                                                                                                                                                                   | MI-533-713                                           | MI-533-713                                           | MI-533-713                                           | MI-533-713                                           |
| MI-533-719                                                                                                                                                                                                                                                                                                                                                                                                                                   | MI-533-719                                           | MI-533-719                                           | MI-533-719                                           | MI-533-719                                           |
| MI-533-682<br>MI-545-682                                                                                                                                                                                                                                                                                                                                                                                                                     | MI-533-682<br>MI-545-682                             | MI-533-682<br>MI-545-682                             | MI-533-682<br>MI-545-682                             | MI-533-682<br>MI-545-682                             |
| MI-325-683<br>MI-333-683<br>MI-533-683<br>MI-545-683                                                                                                                                                                                                                                                                                                                                                                                         | MI-325-683<br>MI-333-683<br>MI-533-683<br>MI-545-683 | MI-325-683<br>MI-333-683<br>MI-533-683<br>MI-545-683 | MI-325-683<br>MI-333-683<br>MI-533-683<br>MI-545-683 | MI-325-683<br>MI-333-683<br>MI-533-683<br>MI-545-683 |
| MI-533-742<br>MI-545-742                                                                                                                                                                                                                                                                                                                                                                                                                     | MI-533-742<br>MI-545-742                             | MI-533-742<br>MI-545-742                             | MI-533-742<br>MI-545-742                             | MI-533-742<br>MI-545-742                             |





Faßzangen

Grasping Forceps

|                                                                                                              |                                                                                      | Länge Maulteil<br>Length jaw part | einfach beweglich<br>single action | doppelt beweglich<br>double action | Ø mm | Länge mm<br>Length mm | Einsatz ohne<br>Schaft<br>Insert without<br>shaft |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------|------------------------------------|------------------------------------|------|-----------------------|---------------------------------------------------|
| Maryland-Faßzange, lang<br><i>Maryland Forceps, long</i>                                                     |   | 21                                | ×                                  |                                    | 5    | 330                   | MI-533-771                                        |
| Maryland-Faßzange, kurz<br><i>Maryland Forceps, short</i>                                                    |  | 9                                 |                                    |                                    | 3    | 250                   | MI-325-772                                        |
|                                                                                                              |                                                                                      |                                   |                                    | ×                                  | 3    | 330                   | MI-333-772                                        |
|                                                                                                              |                                                                                      | 15                                |                                    |                                    | 5    | 330                   | MI-533-772                                        |
|                                                                                                              |                                                                                      |                                   |                                    |                                    | 5    | 450                   | MI-545-772                                        |
| Maryland-Faßzange<br><i>Maryland Forceps</i>                                                                 |  | 12                                |                                    |                                    | 3    | 250                   | MI-325-770                                        |
|                                                                                                              |                                                                                      |                                   |                                    |                                    | 3    | 330                   | MI-333-770                                        |
|                                                                                                              |                                                                                      | 21                                |                                    | ×                                  | 5    | 330                   | MI-533-770                                        |
|                                                                                                              |                                                                                      |                                   |                                    |                                    | 5    | 450                   | MI-545-770                                        |
| Lange Faßzange, fein<br>gezahnt, mit Fenster,<br>dünne Stege<br><i>Long fenestred Forceps,<br/>fine bars</i> |  | 19                                |                                    |                                    | 10   | 330                   | MI-133-770                                        |
|                                                                                                              |                                                                                      |                                   |                                    |                                    | 10   | 450                   | MI-145-770                                        |
|                                                                                                              |                                                                                      | 25                                | ×                                  |                                    | 5    | 330                   | MI-533-725                                        |
|                                                                                                              |                                                                                      |                                   |                                    |                                    | 5    | 450                   | MI-545-725                                        |
| Mixer-Faßzange 90°<br><i>Mixer Forceps 90°</i>                                                               |  | 24                                |                                    |                                    | 5    | 330                   | MI-533-801                                        |
|                                                                                                              |                                                                                      |                                   |                                    | ×                                  | 5    | 450                   | MI-545-801                                        |
|                                                                                                              |                                                                                      | 17                                |                                    |                                    | 10   | 330                   | MI-133-800                                        |
|                                                                                                              |                                                                                      |                                   |                                    |                                    | 10   | 450                   | MI-145-800                                        |
| Mixer-Faßzange 45°<br><i>Mixer Forceps 45°</i>                                                               |  | 24                                |                                    |                                    | 5    | 330                   | MI-533-803                                        |
|                                                                                                              |                                                                                      |                                   |                                    | ×                                  | 5    | 450                   | MI-545-803                                        |
|                                                                                                              |                                                                                      | 23                                |                                    |                                    | 10   | 330                   | MI-133-804                                        |
|                                                                                                              |                                                                                      |                                   |                                    |                                    | 10   | 450                   | MI-145-804                                        |
| Faßzange lang,<br>fein gezahnt, Fenster<br><i>Fenestred Forceps,<br/>long, fine serrated</i>                 |  | 43                                | ×                                  |                                    | 5    | 330                   | MI-533-722                                        |
|                                                                                                              |                                                                                      |                                   |                                    |                                    | 5    | 450                   | MI-545-722                                        |
| O'Shaugnessy<br>Faßzange<br><i>O'Shaugnessy<br/>Forceps</i>                                                  |  | 49                                |                                    | ×                                  | 10   | 330                   | MI-133-773                                        |
|                                                                                                              |                                                                                      |                                   |                                    |                                    | 10   | 450                   | MI-145-773                                        |



| <div> <div> Metallgriff<br/>Metal handle </div> <div> Metallgriff,<br/>isoliert<br/>Metal handle,<br/>insulated </div> <div> Metallgriff,<br/>isoliert<br/>Metal handle,<br/>insulated </div> <div> Kunststoffgriff<br/>Plastic handle </div> <div> Kunststoffgriff<br/>Plastic handle </div> </div> |            |            |            |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                                                                                                                                                                                                                                                                      |            |            |            |            |
| MI-533-771                                                                                                                                                                                                                                                                                           | MI-533-771 | MI-533-771 | MI-533-771 | MI-533-771 |
| MI-325-772                                                                                                                                                                                                                                                                                           | MI-325-772 | MI-325-772 | MI-325-772 | MI-325-772 |
| MI-333-772                                                                                                                                                                                                                                                                                           | MI-333-772 | MI-333-772 | MI-333-772 | MI-333-772 |
| MI-533-772                                                                                                                                                                                                                                                                                           | MI-533-772 | MI-533-772 | MI-533-772 | MI-533-772 |
| MI-545-772                                                                                                                                                                                                                                                                                           | MI-545-772 | MI-545-772 | MI-545-772 | MI-545-772 |
| MI-325-770                                                                                                                                                                                                                                                                                           | MI-325-770 | MI-325-770 | MI-325-770 | MI-325-770 |
| MI-333-770                                                                                                                                                                                                                                                                                           | MI-333-770 | MI-333-770 | MI-333-770 | MI-333-770 |
| MI-533-770                                                                                                                                                                                                                                                                                           | MI-533-770 | MI-533-770 | MI-533-770 | MI-533-770 |
| MI-545-770                                                                                                                                                                                                                                                                                           | MI-545-770 | MI-545-770 | MI-545-770 | MI-545-770 |
| MI-133-770                                                                                                                                                                                                                                                                                           | MI-133-770 | MI-133-770 | MI-133-770 | MI-133-770 |
| MI-145-770                                                                                                                                                                                                                                                                                           | MI-145-770 | MI-145-770 | MI-145-770 | MI-145-770 |
| MI-533-725                                                                                                                                                                                                                                                                                           | MI-533-725 | MI-533-725 | MI-533-725 | MI-533-725 |
| MI-545-725                                                                                                                                                                                                                                                                                           | MI-545-725 | MI-545-725 | MI-545-725 | MI-545-725 |
| MI-533-801                                                                                                                                                                                                                                                                                           | MI-533-801 | MI-533-801 | MI-533-801 | MI-533-801 |
| MI-545-801                                                                                                                                                                                                                                                                                           | MI-545-801 | MI-545-801 | MI-545-801 | MI-545-801 |
| MI-133-800                                                                                                                                                                                                                                                                                           | MI-133-800 | MI-133-800 | MI-133-800 | MI-133-800 |
| MI-145-800                                                                                                                                                                                                                                                                                           | MI-145-800 | MI-145-800 | MI-145-800 | MI-145-800 |
| MI-533-803                                                                                                                                                                                                                                                                                           | MI-533-803 | MI-533-803 | MI-533-803 | MI-533-803 |
| MI-545-803                                                                                                                                                                                                                                                                                           | MI-545-803 | MI-545-803 | MI-545-803 | MI-545-803 |
| MI-133-804                                                                                                                                                                                                                                                                                           | MI-133-804 | MI-133-804 | MI-133-804 | MI-133-804 |
| MI-145-804                                                                                                                                                                                                                                                                                           | MI-145-804 | MI-145-804 | MI-145-804 | MI-145-804 |
| MI-533-722                                                                                                                                                                                                                                                                                           | MI-533-722 | MI-533-722 | MI-533-722 | MI-533-722 |
| MI-545-722                                                                                                                                                                                                                                                                                           | MI-545-722 | MI-545-722 | MI-545-722 | MI-545-722 |
| MI-133-773                                                                                                                                                                                                                                                                                           | MI-133-773 | MI-133-773 | MI-133-773 | MI-133-773 |
| MI-145-773                                                                                                                                                                                                                                                                                           | MI-145-773 | MI-145-773 | MI-145-773 | MI-145-773 |





Biopsiezangen  
Biopsy Forceps

Biopsie-Zange  
Biopsy Forceps



| Länge Maulteil*<br>Length jaw part* | einfach beweglich<br>single action | doppelt beweglich<br>double action | Ø mm | Länge mm<br>Length mm | Einsatz ohne<br>Schaft<br>Insert without<br>shaft |
|-------------------------------------|------------------------------------|------------------------------------|------|-----------------------|---------------------------------------------------|
| 5<br><br><br>10                     | ×                                  |                                    | 3    | 250                   | MI-325-641                                        |
|                                     |                                    |                                    | 3    | 330                   | MI-333-641                                        |
|                                     |                                    |                                    | 5    | 330                   | MI-533-641                                        |
|                                     |                                    |                                    | 5    | 450                   | MI-545-641                                        |

Biopsie-Zange mit Dorn  
Biopsy Forceps with thorn



|    |  |   |   |     |            |
|----|--|---|---|-----|------------|
| 10 |  | × | 5 | 330 | MI-533-661 |
|    |  |   | 5 | 450 | MI-545-661 |

Große Löffelzange  
Large Spoon Forceps



|    |   |  |    |     |            |
|----|---|--|----|-----|------------|
| 24 | × |  | 10 | 330 | MI-133-970 |
|    |   |  | 10 | 450 | MI-145-970 |

Biopsie-Zange, langes Maul  
Biopsy Forceps, long jaw

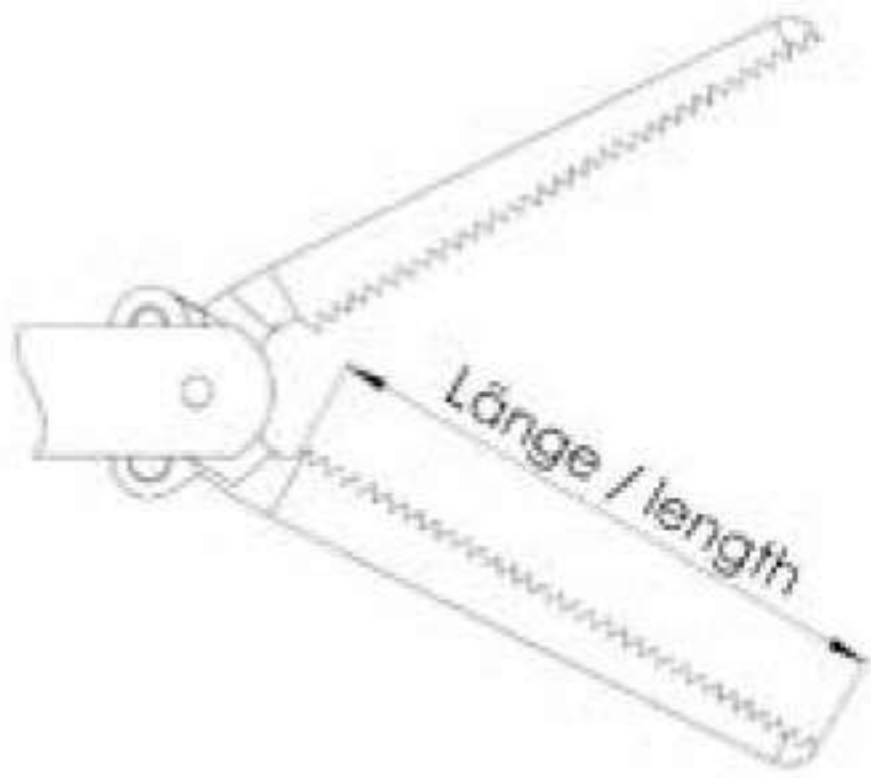


|    |   |  |   |     |            |
|----|---|--|---|-----|------------|
| 16 | × |  | 5 | 330 | MI-533-645 |
|----|---|--|---|-----|------------|

Biopsie-Zange mit Zähnen  
Biopsy Forceps with teeth



|    |  |   |   |     |            |
|----|--|---|---|-----|------------|
| 10 |  | × | 5 | 330 | MI-533-751 |
|----|--|---|---|-----|------------|



\*Richtwert - kein Prüfmaß  
\*Approx. value - no inspection dimension

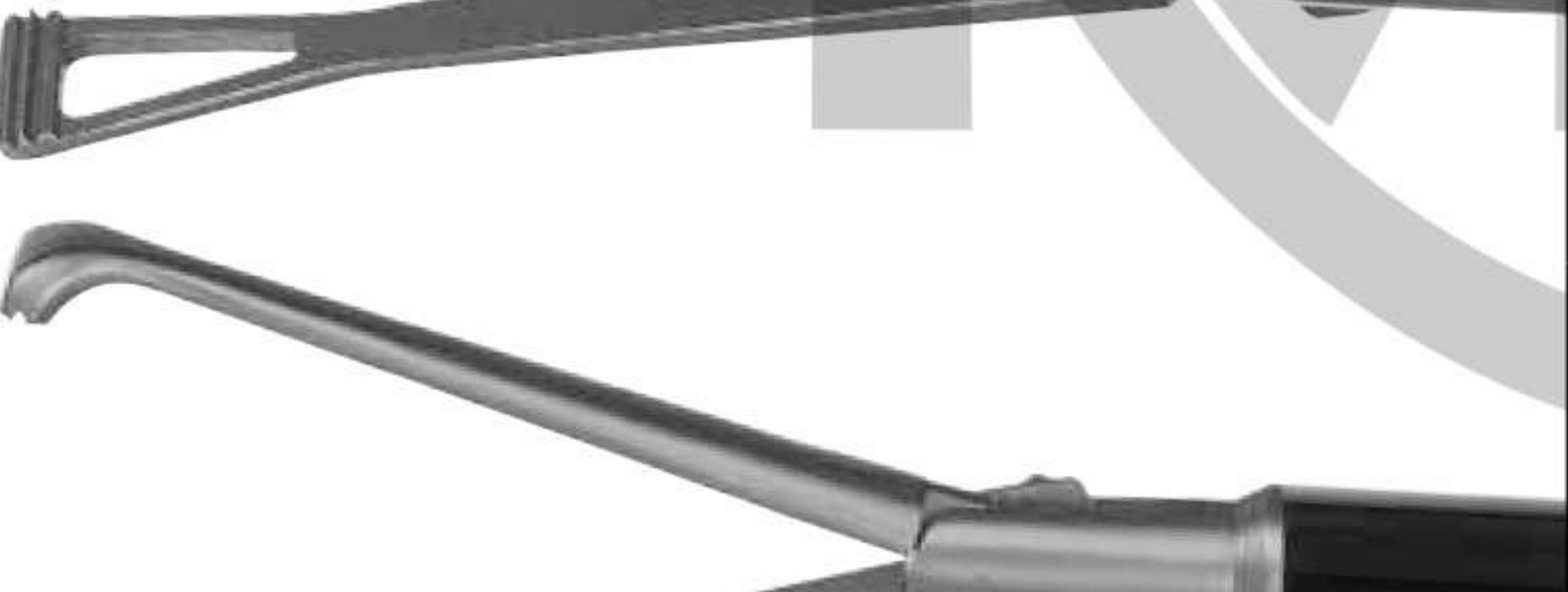


| <div> <div> Metallgriff<br/>Metal handle </div> <div> Metallgriff<br/>Metal handle </div> <div> Metallgriff,<br/>isoliert<br/>Metal handle,<br/>insulated </div> <div> Kunststoffgriff<br/>Plastic handle </div> <div> Kunststoffgriff<br/>Plastic handle </div> </div> |                                                                                                |                                                                                                  |                                                                                                  |                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <div>  </div>                                                                                                                                                                          | <div>  </div> | <div>  </div> | <div>  </div> | <div>  </div> |
| <div> MI-325-641<br/>MI-333-641<br/>MI-533-641<br/>MI-545-641 </div>                                                                                                                                                                                                    | <div> MI-325-641<br/>MI-333-641<br/>MI-533-641<br/>MI-545-641 </div>                           | <div> MI-325-641<br/>MI-333-641<br/>MI-533-641<br/>MI-545-641 </div>                             | <div> MI-325-641<br/>MI-333-641<br/>MI-533-641<br/>MI-545-641 </div>                             | <div> MI-325-641<br/>MI-333-641<br/>MI-533-641<br/>MI-545-641 </div>                             |
| <div> MI-533-661<br/>MI-545-661 </div>                                                                                                                                                                                                                                  | <div> MI-533-661<br/>MI-545-661 </div>                                                         | <div> MI-533-661<br/>MI-545-661 </div>                                                           | <div> MI-533-661<br/>MI-545-661 </div>                                                           | <div> MI-533-661<br/>MI-545-661 </div>                                                           |
| <div> MI-133-970<br/>MI-145-970 </div>                                                                                                                                                                                                                                  | <div> MI-133-970<br/>MI-145-970 </div>                                                         | <div> MI-133-970<br/>MI-145-970 </div>                                                           | <div> MI-133-970<br/>MI-145-970 </div>                                                           | <div> MI-133-970<br/>MI-145-970 </div>                                                           |
| <div> MI-533-645 </div>                                                                                                                                                                                                                                                 | <div> MI-533-645 </div>                                                                        | <div> MI-533-645 </div>                                                                          | <div> MI-533-645 </div>                                                                          | <div> MI-533-645 </div>                                                                          |
| <div> MI-533-751 </div>                                                                                                                                                                                                                                                 | <div> MI-533-751 </div>                                                                        | <div> MI-533-751 </div>                                                                          | <div> MI-533-751 </div>                                                                          | <div> MI-533-751 </div>                                                                          |





Klemmen  
Clamps

|                                                |                                                                                      | Länge Maulteil<br>Length jaw part | einfach beweglich<br>single action | doppelt beweglich<br>double action | Ø mm | Länge mm<br>Length mm | Einsatz ohne<br>Schaft<br>Insert without<br>shaft |
|------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------|------------------------------------|------------------------------------|------|-----------------------|---------------------------------------------------|
| Babcock-Klemme<br><i>Babcock Clamp</i>         |  | 31                                | ×                                  | ×                                  | 5    | 330                   | MI-533-901                                        |
|                                                |                                                                                      |                                   |                                    |                                    | 5    | 450                   | MI-545-901                                        |
|                                                |  | 51                                |                                    |                                    | 10   | 330                   | MI-133-900                                        |
|                                                |                                                                                      |                                   |                                    |                                    | 10   | 450                   | MI-145-900                                        |
| Duval-Klemme<br><i>Duval Clamp</i>             |  | 50                                | ×                                  | ×                                  | 10   | 330                   | MI-133-910                                        |
|                                                |  |                                   |                                    |                                    |      |                       |                                                   |
| Allis-Klemme<br><i>Allis Clamp</i>             |  | 31                                | ×                                  | ×                                  | 5    | 330                   | MI-533-920                                        |
|                                                |                                                                                      |                                   |                                    |                                    | 5    | 450                   | MI-545-920                                        |
|                                                |  | 51                                |                                    |                                    | 10   | 330                   | MI-133-921                                        |
| DeBakey-Klemme<br><i>DeBakey Clamp</i>         |  | 35                                | ×                                  | ×                                  | 5    | 330                   | MI-533-940                                        |
|                                                |                                                                                      | 50                                |                                    |                                    | 10   | 330                   | MI-133-941                                        |
| Pennington-Klemme<br><i>Pennington Clamp</i>   |  | 31                                | ×                                  | ×                                  | 5    | 330                   | MI-533-960                                        |
|                                                |                                                                                      | 50                                |                                    |                                    | 10   | 330                   | MI-133-961                                        |
|                                                |  |                                   |                                    |                                    |      |                       |                                                   |
| Tenaculum Faßzange<br><i>Tenaculum Forceps</i> |  | 27                                | ×                                  | ×                                  | 5    | 330                   | MI-533-954                                        |
|                                                |                                                                                      |                                   |                                    |                                    | 5    | 450                   | MI-545-954                                        |
|                                                |                                                                                      |                                   |                                    |                                    | 10   | 330                   | MI-133-955                                        |
|                                                |                                                                                      |                                   |                                    |                                    | 10   | 450                   | MI-145-955                                        |



Metallgriff  
Metal handle



MI-533-901  
MI-545-901  
MI-133-900  
MI-145-900

Metallgriff  
Metal handle



MI-533-901  
MI-545-901  
MI-133-900  
MI-145-900

Metallgriff,  
isoliert  
Metal handle,  
insulated



MI-533-901  
MI-545-901  
MI-133-900  
MI-145-900

Kunststoffgriff  
Plastic handle



MI-533-901  
MI-545-901  
MI-133-900  
MI-145-900

MI-133-910

MI-133-910

MI-133-910

MI-133-910

MI-533-920  
MI-545-920  
MI-133-921

MI-533-920  
MI-545-920  
MI-133-921

MI-533-920  
MI-545-920  
MI-133-921

MI-533-920  
MI-545-920  
MI-133-921

MI-533-940  
MI-133-941

MI-533-940  
MI-133-941

MI-533-940  
MI-133-941

MI-533-940  
MI-133-941

MI-533-960  
MI-133-961

MI-533-960  
MI-133-961

MI-533-960  
MI-133-961

MI-533-960  
MI-133-961

MI-533-954  
MI-545-954  
MI-133-955  
MI-145-955

MI-533-954  
MI-545-954  
MI-133-955  
MI-145-955

MI-533-954  
MI-545-954  
MI-133-955  
MI-145-955

MI-533-954  
MI-545-954  
MI-133-955  
MI-145-955





Klemmen  
Clamps

Krallengreifer  
Claw Grasping Forceps



| Länge Maulteil<br>Length jaw part | einfach beweglich<br>single action | doppelt beweglich<br>double action | Ø mm | Länge mm<br>Length mm | Einsatz ohne<br>Schaft<br>Insert without<br>shaft |
|-----------------------------------|------------------------------------|------------------------------------|------|-----------------------|---------------------------------------------------|
| 17                                | ×                                  |                                    | 5    | 330                   | MI-533-950                                        |
|                                   |                                    |                                    | 5    | 450                   | MI-545-950                                        |
| 33                                |                                    |                                    | 10   | 330                   | MI-133-951                                        |
|                                   |                                    |                                    | 10   | 450                   | MI-145-951                                        |
| 50                                |                                    | ×                                  | 10   | 330                   | MI-133-765                                        |
| 35                                |                                    |                                    | 5    | 330                   | MI-533-810                                        |

Atrauma-Klemme  
Atraumatic Clamp



Dorsey-Klemme  
Dorsey Clamp



Stanzen  
Punches

Biopsie-Stanze  
Biopsy Punch



| Länge Maulteil<br>Length jaw part | einfach beweglich<br>single action | doppelt beweglich<br>double action | Ø mm | Länge mm<br>Length mm | Einsatz ohne<br>Schaft<br>Insert without<br>shaft |
|-----------------------------------|------------------------------------|------------------------------------|------|-----------------------|---------------------------------------------------|
| 10                                | ×                                  |                                    | 5    | 330                   | MI-533-521                                        |



|                                                                                                                                                                                                        |                                                                                                                                                                                                         |                                                                                                                                                                                                                                       |                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div>Metallgriff<br/>Metal handle</div></div> <div>MI-533-950<br/>MI-545-950<br/>MI-133-951<br/>MI-145-951</div> | <div><div>Metallgriff<br/>Metal handle</div></div> <div>MI-533-950<br/>MI-545-950<br/>MI-133-951<br/>MI-145-951</div> | <div><div>Metallgriff,<br/>isoliert<br/>Metal handle,<br/>insulated</div></div> <div>MI-533-950<br/>MI-545-950<br/>MI-133-951<br/>MI-145-951</div> | <div><div>Kunststoffgriff<br/>Plastic handle</div></div> <div>MI-533-950<br/>MI-545-950<br/>MI-133-951<br/>MI-145-951</div> |
| MI-133-765                                                                                                                                                                                             | MI-133-765                                                                                                                                                                                              | MI-133-765                                                                                                                                                                                                                            | MI-133-765                                                                                                                                                                                                     |
| MI-533-810                                                                                                                                                                                             | MI-533-810                                                                                                                                                                                              | MI-533-810                                                                                                                                                                                                                            | MI-533-810                                                                                                                                                                                                     |

|                                                                                                                                                             |                                                                                                                                                                                            |                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div>Metallgriff<br/>Metal handle</div></div> <div>MI-533-521</div> | <div><div>Metallgriff,<br/>isoliert<br/>Metal handle,<br/>insulated</div></div> <div>MI-533-521</div> | <div><div>Kunststoffgriff<br/>Plastic handle</div></div> <div>MI-533-521</div> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

31





Nadelhalter mit/ohne  
Hartmetall

Needle Holders with/  
without Tungsten Carbide

|                                                                                                                           |  | Länge Maulteil<br>Length jaw part | einfach beweglich<br>single action | doppelt beweglich<br>double action | Ø mm                  | Länge mm<br>Length mm                         | Einsatz ohne<br>Schaft<br>Insert without<br>shaft                            |
|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-----------------------|-----------------------------------------------|------------------------------------------------------------------------------|
| DeBakey <b>mit</b> Hartmetall<br><i>DeBakey <b>with</b> Tungsten Carbide</i>                                              |  | 13                                | ×                                  |                                    | 5<br>5                | 330<br>450                                    | MI-533-110HM<br>MI-545-110HM                                                 |
| DeBakey <b>mit</b> Hartmetall<br><i>DeBakey <b>with</b> Tungsten Carbide</i>                                              |  | 13                                |                                    | ×                                  | 5                     | 330                                           | MI-533-120HM                                                                 |
| Mayo-Hegar <b>mit</b> Hartmetall<br><i>Mayo-Hegar <b>with</b> Tungsten Carbide</i>                                        |  | 13                                | ×                                  |                                    | 5<br>5                | 330<br>450                                    | MI-533-111HM<br>MI-545-111HM                                                 |
| Mayo-Hegar <b>mit</b> Hartmetall<br><i>Mayo-Hegar <b>with</b> Tungsten Carbide</i>                                        |  | 13                                |                                    | ×                                  | 5                     | 330                                           | MI-533-121HM                                                                 |
| French-Eye <b>mit</b> Hartmetall<br><i>French-Eye <b>with</b> Tungsten Carbide</i>                                        |  | 8<br>13<br>10                     | ×                                  |                                    | 3<br>3<br>5<br>5<br>5 | 250<br>330<br>330<br>330 curved<br>450 curved | MI-325-113HM<br>MI-333-113HM<br>MI-533-113HM<br>MI-533-114HM<br>MI-545-114HM |
| French-Eye <b>mit</b> Hartmetall<br><i>French-Eye <b>with</b> Tungsten Carbide</i>                                        |  | 10                                |                                    | ×                                  | 5<br>5                | 330<br>450                                    | MI-533-123HM<br>MI-545-124HM                                                 |
| Nadelhalter <b>ohne</b> Hartmetall<br><i>Needleholder <b>without</b> Tungsten Carbide</i>                                 |  | 13                                | ×                                  |                                    | 5                     | 330                                           | MI-533-635                                                                   |
| Nadelhalter <b>ohne</b> Hartmetall,<br>60° abgewinkelt<br><i>Needleholder <b>without</b> Tungsten Carbide, 60° angled</i> |  | 14                                |                                    | ×                                  | 10                    | 330                                           | MI-133-985                                                                   |



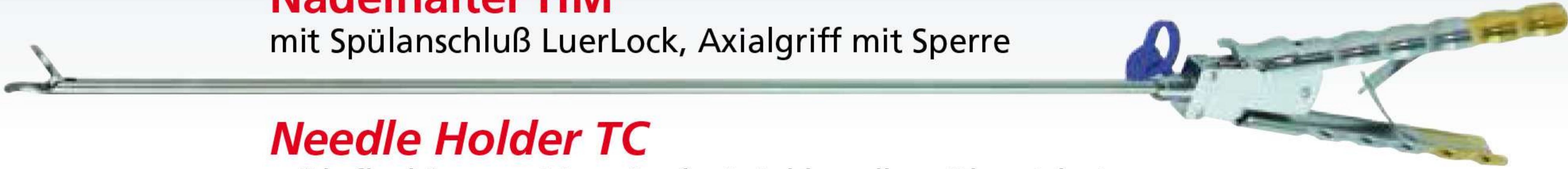
| <div> <div> <div>H18... Instrumente sind nicht zerlegbar</div> <div>H18... Instruments are not detachable</div> </div> <div> <div>Axialgriff Metall</div> <div>Axial handle metal</div> </div> <div> <div>Axialgriff Metall</div> <div>Axial handle metal</div> </div> <div> <div>Metallgriff,</div> <div>Metal handle,</div> </div> <div> <div>Metallgriff,</div> <div>isoliert</div> <div>Metal handle,</div> <div>insulated</div> </div> <div> <div>Kunststoffgriff</div> <div>Plastic handle</div> </div> </div> |                                              |                                                                              |                                                                              |                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| MI-533-110HM<br>MI-545-110HM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MI-533-110HM<br>MI-545-110HM                 | MI-533-110HM<br>MI-545-110HM                                                 | MI-533-110HM<br>MI-545-110HM                                                 | MI-533-110HM<br>MI-545-110HM                                                 |
| MI-533-120HM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MI-533-120HM                                 | MI-533-120HM                                                                 | MI-533-120HM                                                                 | MI-533-120HM                                                                 |
| MI-533-111HM<br>MI-545-111HM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MI-533-111HM<br>MI-545-111HM                 | MI-533-111HM<br>MI-545-111HM                                                 | MI-533-111HM<br>MI-545-111HM                                                 | MI-533-111HM<br>MI-545-111HM                                                 |
| MI-533-121HM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MI-533-121HM                                 | MI-533-121HM                                                                 | MI-533-121HM                                                                 | MI-533-121HM                                                                 |
| MI-533-113HM<br>MI-533-114HM<br>MI-545-114HM                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MI-533-113HM<br>MI-533-114HM<br>MI-545-114HM | MI-325-113HM<br>MI-333-113HM<br>MI-533-113HM<br>MI-533-114HM<br>MI-545-114HM | MI-325-113HM<br>MI-333-113HM<br>MI-533-113HM<br>MI-533-114HM<br>MI-545-114HM | MI-325-113HM<br>MI-333-113HM<br>MI-533-113HM<br>MI-533-114HM<br>MI-545-114HM |
| MI-533-123HM<br>MI-545-124HM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MI-533-123HM<br>MI-545-124HM                 | MI-533-123HM<br>MI-545-124HM                                                 | MI-533-123HM<br>MI-545-124HM                                                 | MI-533-123HM<br>MI-545-124HM                                                 |
| MI-533-635                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MI-533-635                                   | MI-533-635                                                                   | MI-533-635                                                                   | MI-533-635                                                                   |
| MI-133-985                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MI-133-985                                   | MI-133-985                                                                   | MI-133-985                                                                   | MI-133-985                                                                   |





Nadelhalter HM

mit Spülanschluß LuerLock, Axialgriff mit Sperre



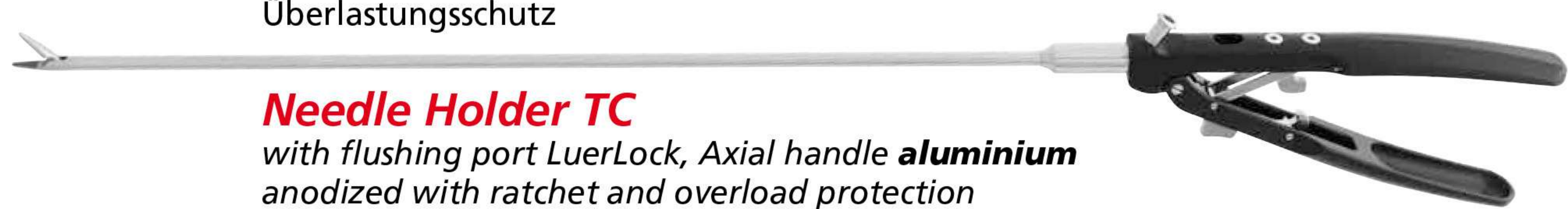
Needle Holder TC

with flushing port LuerLock, Axial handle with ratchet

|  | Maulteil<br>Jaw part                                                 | Ø<br>mm | NL mm<br>WL mm |  |  |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------|----------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  | gerade<br>straight                                                   | 5       | 330            | MI-533-350HM                                                                         | MI-533-353HM                                                                         |
|                                                                                    |                                                                      | 5       | 450            | MI-545-350HM                                                                         | MI-545-353HM                                                                         |
|  | links gebogen<br>left curved                                         | 5       | 330            | MI-533-351HM                                                                         | MI-533-354HM                                                                         |
|                                                                                    |                                                                      | 5       | 450            | MI-545-351HM                                                                         | MI-545-354HM                                                                         |
|  | rechts gebogen<br>right curved                                       | 5       | 330            | MI-533-352HM                                                                         | MI-533-355HM                                                                         |
|                                                                                    |                                                                      | 5       | 450            | MI-545-352HM                                                                         | MI-545-355HM                                                                         |
|  | konvex-konkav/mit Fixierzähnen<br>convex-concave/with fixation teeth | 5       | 330            | MI-533-356HM                                                                         | MI-533-357HM                                                                         |
|                                                                                    |                                                                      | 5       | 450            | MI-545-356HM                                                                         | MI-545-357HM                                                                         |

Nadelhalter HM

mit Spülanschluß LuerLock, Axialgriff **Aluminium** anodisiert mit Sperre und Überlastungsschutz



Needle Holder TC

with flushing port LuerLock, Axial handle **aluminium** anodized with ratchet and overload protection

|  | Maulteil<br>Jaw part               | Ø<br>mm | NL mm<br>WL mm |  |  |
|------------------------------------------------------------------------------------|------------------------------------|---------|----------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  | gerade<br>straight                 | 5       | 330            | MI-533-033HM                                                                         | MI-533-034HM                                                                          |
|                                                                                    |                                    | 5       | 450            | MI-545-033HM                                                                         | MI-545-034HM                                                                          |
|  | links gebogen<br>left curved       | 5       | 330            | MI-533-133HM                                                                         | MI-533-134HM                                                                          |
|                                                                                    |                                    | 5       | 450            | MI-545-133HM                                                                         | MI-545-134HM                                                                          |
|  | rechts gebogen<br>right curved     | 5       | 330            | MI-533-233HM                                                                         | MI-533-234HM                                                                          |
|                                                                                    |                                    | 5       | 450            | MI-545-233HM                                                                         | MI-545-234HM                                                                          |
|  | aufwärts gebogen<br>upwards curved | 5       | 330            | MI-533-333HM                                                                         | MI-533-334HM                                                                          |
|                                                                                    |                                    | 5       | 450            | MI-545-333HM                                                                         | MI-545-334HM                                                                          |



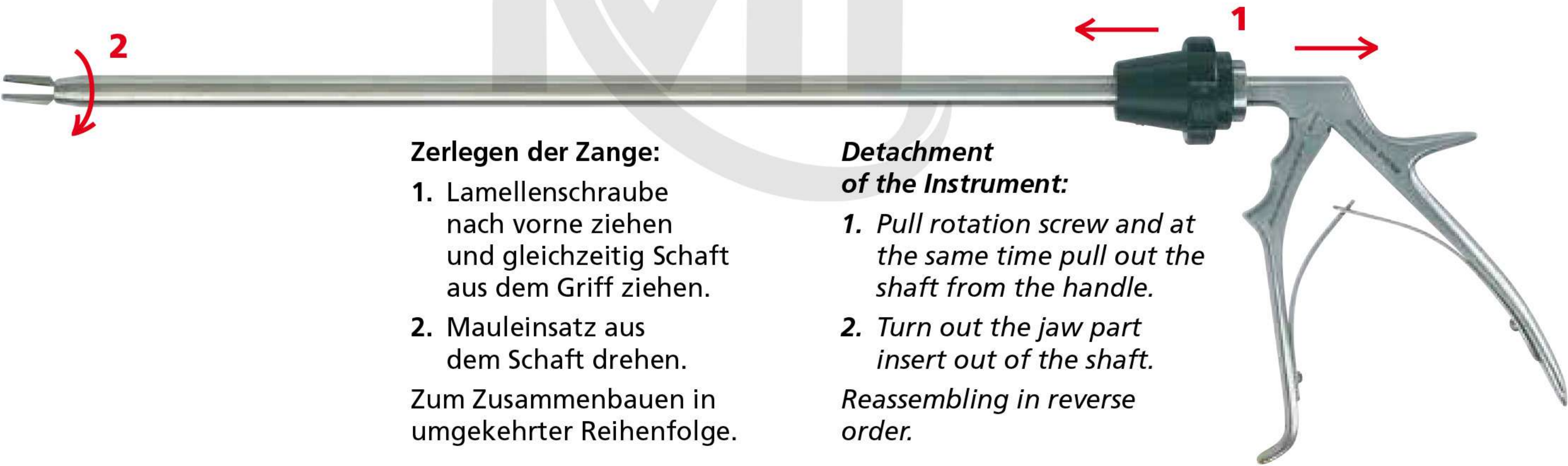
# Clipanlegezange

drehbar und zerlegbar

## Clip Applying Forceps

rotatable and detachable

| Ø mm | Länge mm<br><i>longeur mm</i> | für Clip-Größe<br><i>for Clip Size</i> | für Pilling Weck Clips<br><i>for Pilling Weck Clips</i> | für Ethicon Clips<br><i>for Ethicon Clips</i> |
|------|-------------------------------|----------------------------------------|---------------------------------------------------------|-----------------------------------------------|
| 5    | 330                           | klein<br><i>small</i>                  | MI-533-881 P                                            | MI-533-881 E                                  |
| 10   | 330                           | mittel<br><i>medium</i>                | MI-133-882 P                                            | MI-133-882 E                                  |
| 10   | 330                           | mittel / groß<br><i>medium large</i>   | MI-133-883 P                                            | MI-133-883 E                                  |
| 10   | 330                           | groß<br><i>large</i>                   | MI-133-884 P                                            | MI-133-884 E                                  |







Trokarhülsen - Standard

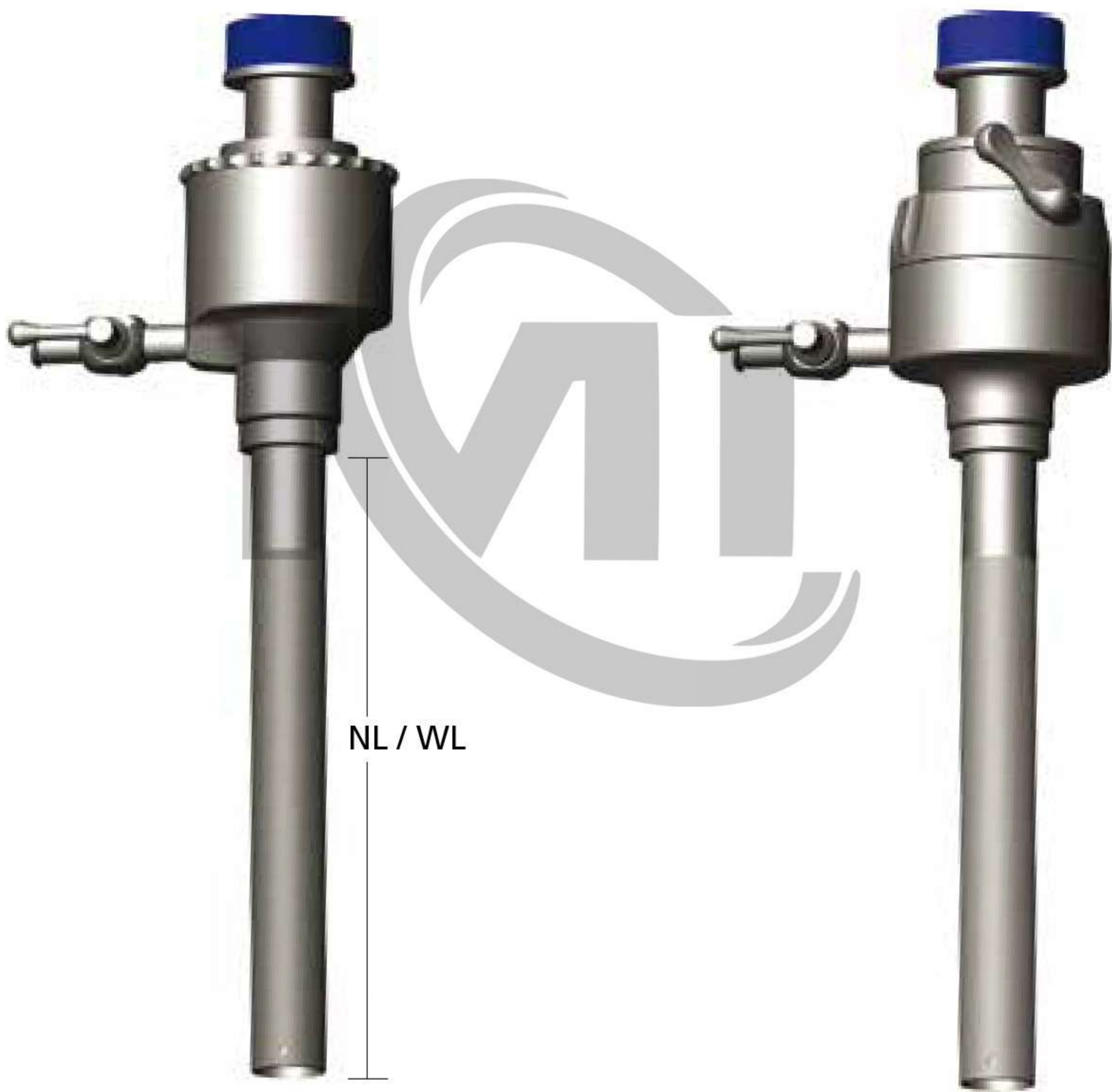
Trocar Sleeves - standard

Automatik Trokarhülse mit Hahn,  
Metallschaftrohr auswechselbar.  
Gehäuse aus Messing verchromt,  
Schaft aus Edelstahl

Automatic trocar sleeve with stop-  
cock, metal shaft exchangeable.  
Housing - brass chromed,  
shaft - stainless steel

Automatik Trokarhülse mit Hahn,  
manuelle Klappenöffnung,  
Metallschaftrohr auswechselbar.  
Komplett aus Edelstahl

Automatic trocar sleeve with stop-  
cock, manual trap door valve,  
metal shaft exchangeable.  
Completely stainless steel



| Ø mm | NL mm<br>WL mm |            |            |
|------|----------------|------------|------------|
| 3,5  | 70,0           | MI-036-00  | MI-030-00  |
| 5,0  | 92,0           | MI-056-00  | MI-050-00  |
| 5,5  | 95,0           | MI-0556-00 | MI-0550-00 |
| 7,0  | 95,0           | MI-076-00  | MI-070-00  |
| 8,0  | 105,0          | MI-086-00  | -          |
| 10,0 | 97,0           | MI-106-00  | MI-100-00  |
| 11,0 | 101,0          | MI-116-00  | MI-110-00  |
| 12,5 | 98,0           | MI-126-00  | MI-120-00  |
| 13,0 | 97,0           | -          | MI-130-00  |
| 15,0 | 109,0          | -          | MI-150-00  |
| 20,0 | 118,0          | -          | MI-200-00  |
| 5,5  | 150,0          | -0556-00S  | -0550-00S  |
| 11,0 | 150,0          | -116-00S   | -110-00S   |
| 12,5 | 150,0          | -126-00S   | -120-00S   |



Schaftrohre einzeln

Shafts only

Schaft einzeln,  
passend für Trokare  
auf Seite 36

Shaft only,  
suitable for Trocars  
on page 36

Metallschaftrohr  
ohne Gewinde  
*Metal Shaft  
smooth*



A

Metallschaftrohr  
mit Gewinde  
*Metal Shaft  
with thread*



B

Kunststoff-  
schaftrohr  
ohne Gewinde  
*Plastic Shaft  
smooth*



C

Kunststoff-  
schaftrohr  
mit Gewinde  
*Plastic Shaft  
with thread*



D

| Ø mm | NL mm<br>WL mm |           |          |          |          |
|------|----------------|-----------|----------|----------|----------|
| 3,5  | 70             | MI-035-A  |          |          |          |
| 5,0  | 92             | MI-050-A  |          |          |          |
| 5,5  | 95             | MI-055-A  | MI-055-B | MI-055-C | MI-055-D |
| 7,0  | 95             | MI-070-A  |          |          |          |
| 8,0  | 105            | MI-080-A  |          |          |          |
| 10,0 | 97             | MI-100-A  |          |          |          |
| 11,0 | 101            | MI-110-A  | MI-110-B | MI-110-C | MI-110-D |
| 12,5 | 98             | MI-125-A  | MI-125-B | MI-125-C | MI-125-D |
| 13,0 | 97             | MI-130-A  |          |          |          |
| 5,5  | 150            | MI-055-AS |          |          |          |
| 11,0 | 150            | MI-110-AS |          |          |          |
| 12,5 | 150            | MI-125-AS |          |          |          |

Trokarhülsen mit verschiedenen Schäften

Trocar Sleeves with different Shafts



|      |  |                                                                        |             |             |             |
|------|--|------------------------------------------------------------------------|-------------|-------------|-------------|
| 5,5  |  | Standardversion siehe S. 36<br><i>Standard version<br/>see page 36</i> | MI-0556-00B | MI-0556-00C | MI-0556-00D |
| 11,0 |  |                                                                        | MI-116-00B  | MI-116-00C  | MI-116-00D  |
| 12,5 |  |                                                                        | MI-126-00B  | MI-126-00C  | MI-126-00D  |



|      |  |                                                                        |             |             |             |
|------|--|------------------------------------------------------------------------|-------------|-------------|-------------|
| 5,5  |  | Standardversion siehe S. 36<br><i>Standard version<br/>see page 36</i> | MI-0550-00B | MI-0550-00C | MI-0550-00D |
| 11,0 |  |                                                                        | MI-110-00B  | MI-110-00C  | MI-110-00D  |
| 12,5 |  |                                                                        | MI-120-00B  | MI-120-00C  | MI-120-00D  |





## Trokarhülsen

### Trocar Sleeves

Automatik Trokarhülse mit Hahn;  
Edelstahl

- manuelle Klappenöffnung
- Gewichtsreduzierung
- Reduzierung der Gehäusegröße
- verbesserte Nutzlänge
- bessere Handhabung

*Automatic trocar sleeve with  
stopcock; stainless steel*

- manual trap door valve
- reduced weight
- reduced size of the housing
- improved working length
- better handling

Automatik Trokarhülse mit Hahn

- Silikondichtung
- Gehäuse aus PPSU

*Automatic trocar sleeve with  
stopcock*

- Silicone valve
- Housing made of PPSU

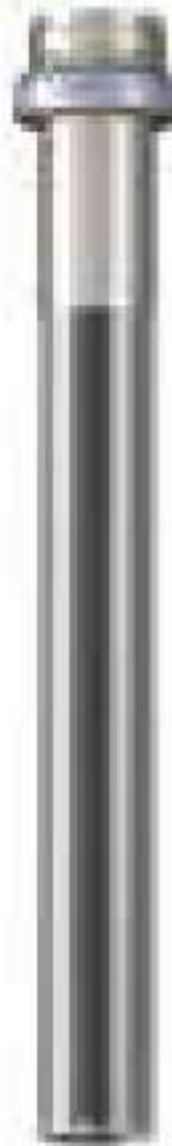


| Ø mm | NL mm<br>WL mm | Kennfarbe<br>Colour Code |             |             |
|------|----------------|--------------------------|-------------|-------------|
| 5,5  | 103,0          | weiß/white               | MI-0055-00  | MI-1055-00  |
| 11,0 | 105,0          | blau/blue                | MI-0110-00  | MI-1110-00  |
| 13,0 | 102,0          | grün/green               | MI-0130-00  | MI-1130-00  |
| 5,5  | 150,0          | weiß/white               | MI-0055-00S | MI-1055-00S |
| 11,0 | 150,0          | blau/blue                | MI-0110-00S | MI-1110-00S |
| 12,5 | 150,0          | grün/green               | MI-0130-00S | MI-1130-00S |



# Schaftrohre einzeln

## Shafts only

|                                                            |                | Metallschaftrohr<br>ohne Gewinde<br><i>Metal Shaft<br/>smooth</i>                  | Metallschaftrohr<br>mit Gewinde<br><i>Metal Shaft<br/>with thread</i>                | Kunststoff-<br>schaftrohr<br>ohne Gewinde<br><i>Plastic Shaft<br/>smooth</i>         | Kunststoff-<br>schaftrohr<br>mit Gewinde<br><i>Plastic Shaft<br/>with thread</i>     |
|------------------------------------------------------------|----------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Schaft einzeln,<br>passend für Trokare<br>auf Seite 38     |                |  |  |  |  |
| <i>Shaft only,<br/>suitable for Trocars<br/>on page 38</i> |                |                                                                                    |                                                                                      |                                                                                      |                                                                                      |
| Ø mm                                                       | NL mm<br>WL mm | A                                                                                  | B                                                                                    | C                                                                                    | D                                                                                    |
| 5,5                                                        |                | MI-055-A                                                                           | MI-055-B                                                                             | MI-055-C                                                                             | MI-055-D                                                                             |
| 11,0                                                       |                | MI-110-A                                                                           | MI-110-B                                                                             | MI-110-C                                                                             | MI-110-D                                                                             |
| 13,0                                                       |                | MI-130-A                                                                           | MI-130-B                                                                             | MI-130-C                                                                             | MI-130-D                                                                             |
| 5,5                                                        | 150            | MI-055-AS                                                                          |                                                                                      |                                                                                      |                                                                                      |
| 11,0                                                       | 150            | MI-110-AS                                                                          |                                                                                      |                                                                                      |                                                                                      |
| 13,0                                                       | 150            | MI-130-AS                                                                          |                                                                                      |                                                                                      |                                                                                      |

# Trokarhülsen mit verschiedenen Schäften

## Trocar Sleeves with different Shafts



|      |                                                                        |             |             |             |
|------|------------------------------------------------------------------------|-------------|-------------|-------------|
| 5,5  | Standardversion siehe S. 38<br><i>Standard version<br/>see page 38</i> | MI-0055-00B | MI-0055-00C | MI-0055-00D |
| 11,0 |                                                                        | MI-0110-00B | MI-0110-00C | MI-0110-00D |
| 13,0 |                                                                        | MI-0130-00B | MI-0130-00C | MI-0130-00D |

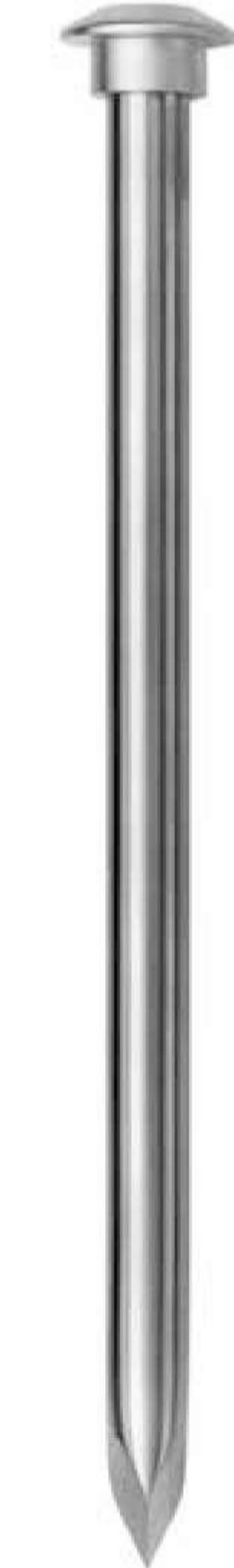
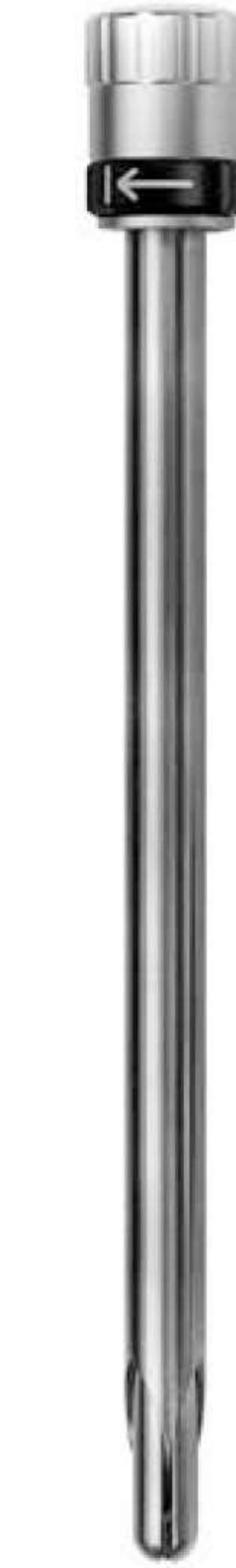


|      |                                                                        |             |             |             |
|------|------------------------------------------------------------------------|-------------|-------------|-------------|
| 5,5  | Standardversion siehe S. 38<br><i>Standard version<br/>see page 38</i> | MI-1055-00B | MI-1055-00C | MI-1055-00D |
| 11,0 |                                                                        | MI-1110-00B | MI-1110-00C | MI-1110-00D |
| 13,0 |                                                                        | MI-1130-00B | MI-1130-00C | MI-1130-00D |





Trokare, Reduzierer  
Trocars, Reducers

|  | Trokar<br>konisch<br><i>Trocar<br/>conical</i>                                      | Trokar<br>dreikant<br><i>Trocar<br/>pyramidal</i>                                   | Trokar<br>stumpf,<br>Hasson<br><i>Trocar blunt,<br/>Hasson</i>                      | Trokar mit<br>Hohlschliff,<br>durchlässig,<br>dreikant<br><i>Trocar, hollow<br/>sharpened,<br/>permeable,<br/>pyramidal</i> | Sicherheits-<br>trokar,<br>feststellbar,<br>dreikant<br><i>Safety Trocar,<br/>fixable,<br/>pyramidal</i> | Sicherheits-<br>trokar,<br>feststellbar,<br>halbmond<br><i>Safety Trocar,<br/>fixable,<br/>half moon</i> |
|--|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
|  |  |  |  |                                        |                     |                     |

Ø mm

|        |                    |                    |           |            |            |           |
|--------|--------------------|--------------------|-----------|------------|------------|-----------|
| 3,5    | <b>MI</b> -035-02  | <b>MI</b> -035-01  | MI-035-07 | -          | -          | -         |
| 5,0    | <b>MI</b> -050-02  | MI-050-01          | MI-050-07 | MI-050-08  | MI-050-05  | MI-050-06 |
| 5,5    | <b>MI</b> -055-02  | <b>MI</b> -055-01  | MI-055-07 | MI-055-08  | MI-055-05  | MI-055-06 |
| 7,0    | <b>MI</b> -070-02  | MI-070-01          | -         | -          | -          | -         |
| 8,0    | <b>MI</b> -080-02  | <b>MI</b> -080-01  | -         | MI-080-08  | -080-05    | MI-080-06 |
| 10,0   | <b>MI</b> -100-02  | MI-100-01          | MI-100-07 | MI-100-08  | -100-05    | MI-100-06 |
| 10,5   | <b>MI</b> -105-02  | <b>MI</b> -105-01  | -         | -          | -          | -         |
| 11,0   | <b>MI</b> -110-02  | MI-110-01          | MI-110-07 | MI-110-08  | MI-110-05  | MI-110-06 |
| 12,5   | <b>MI</b> -120-02  | <b>MI</b> -120-01  | MI-120-07 | MI-120-08  | MI-120-05  | MI-120-06 |
| 13,0   | <b>MI</b> -130-02  | MI-130-01          | -         | MI-130-08  | MI-130-05  | -         |
| 15,0   | <b>MI</b> -150-02  | <b>MI</b> -150-01  | -         | -          | -          | -         |
| 20,0   | <b>MI</b> -200-02  | MI-200-01          | -         | -          | -          | -         |
| 5,5 *  | <b>MI</b> -055-02S | <b>MI</b> -055-01S | -         | MI-055-08S | MI-055-05S | -         |
| 11,0 * | <b>MI</b> -110-02S | -110-01S           | -         | MI-110-08S | MI-110-05S | -         |
| 12,5 * | <b>MI</b> -120-02S | <b>MI</b> -120-01S | -         | MI-120-08S | MI-120-05S | -         |

\* passend für Trokarhülse mit Nutzlänge 150mm / \* fitting to trocar sleeve with working length 150mm



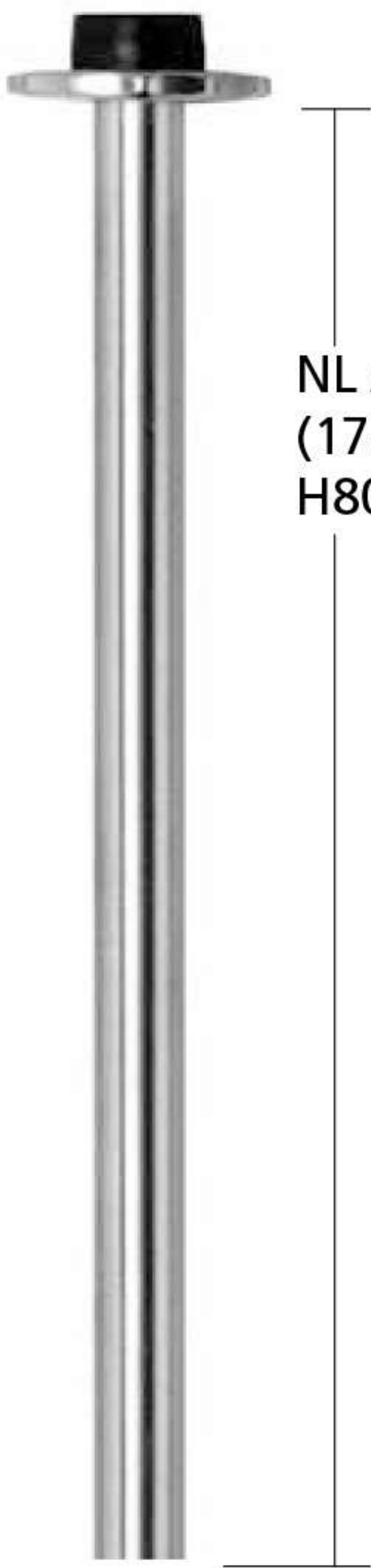
Hasson-Konus  
fixierbar  
mit Fadenhalter

*Hasson-cone  
fixable with  
suture holders*



Ø mm

|      |          |
|------|----------|
| 3,5  | MI-035-K |
| 5,5  | MI-055-K |
| 10,0 | MI-100-K |
| 11,0 | MI-110-K |
| 12,5 | MI-125-K |
| 13,0 | MI-130-K |



NL / WL 190 mm  
(175 mm for  
H80-000-19)

**Baukastensystem**  
**Construction Set**

Reduzierbuchse  
*Reducer sleeve*



Reduzierer mit  
Silikonlasche

*Reducer  
with silicon clip*



Klappenreduzierer  
*Flap reducer*



Ø mm

|             |            |            |            |            |
|-------------|------------|------------|------------|------------|
| 5,0 - 4,0   | MI-000-19  | -          | -          | -          |
| 5,5 - 3,0   | MI-305-00  | MI-305-05  | -          | -          |
| 10,0 - 5,5  | MI-510-00  | MI-510-05  | MI-510-14  | MI-512-12  |
| 11,0 - 5,5  | -          | MI-511-05  | MI-511-14  | MI-512-12  |
| 12,5 - 5,5  | MI-512-00  | MI-512-05  | MI-512-14  | MI-512-12  |
| 12,5 - 8,0  | -          | -          | -          | -          |
| 12,5 - 10,0 | MI-1012-00 | MI-1012-05 | MI-1012-14 | MI-1012-12 |
| 13,0 - 5,5  | -          | MI-513-05  | MI-513-14  | MI-512-12  |
| 13,0 - 10,5 | -          | MI-1013-05 | MI-1013-14 | MI-1012-12 |
| 15,0 - 5,5  | MI-515-00  | -          | -          | -          |
| 15,0 - 10,0 | MI-1015-00 | -          | -          | -          |
| 20,0 - 5,5  | MI-520-00  | -          | -          | -          |
| 20,0 - 10,0 | MI-1020-00 | -          | -          | -          |
| 20,0 - 15,0 | MI-1520-00 | -          | -          | -          |
| 13,0 - 10,0 | -          | MI-1013-05 | MI-1013-14 | -          |





Dichtungen  
Sealings

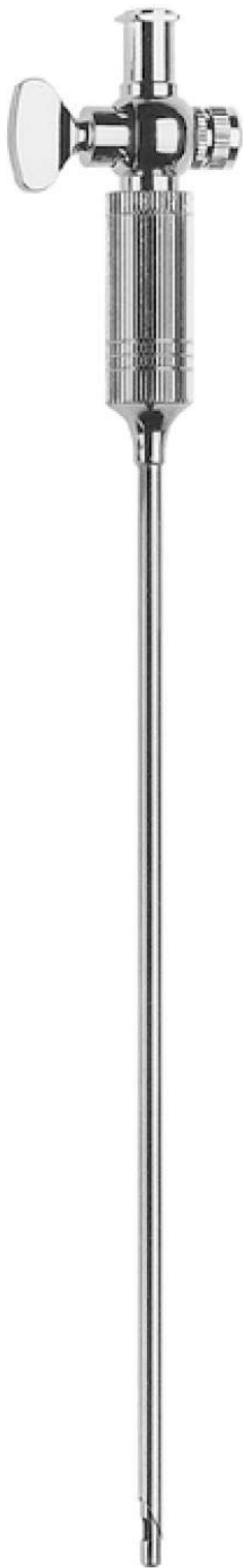
|                                      |      |  |                  |  |                                |  |
|--------------------------------------|------|-----------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------|
| für Trokarhülse<br>for Trocar sleeve | Ø    | Dichtkappe<br>Sealing cap                                                         | Ø Loch<br>Ø hole | O-Ring<br>O-Ring                                                                    | Innendichtung<br>inner Sealing |                                                                                     |
| MI-036-00                            | 3,5  | MI-900-03 ●                                                                       | 2                | MI-901-03                                                                           | MI-902-03 ●                    |                                                                                     |
| MI-056-00                            | 5,0  | MI-900-05 ●                                                                       | 4                | MI-901-05                                                                           | MI-902-05 ●                    |                                                                                     |
| MI-0556-00                           | 5,5  | MI-900-05 ●                                                                       | 4                | MI-901-05                                                                           | MI-902-05 ●                    |                                                                                     |
| MI-076-00                            | 7,0  | MI-900-07 ●                                                                       | 6                | MI-901-05                                                                           | MI-902-05 ●                    |                                                                                     |
| MI-086-00                            | 8,0  | MI-900-08 ●                                                                       | 7                | MI-901-05                                                                           | MI-902-05 ●                    |                                                                                     |
| MI-106-00                            | 10,0 | MI-900-10 ●                                                                       | 8                | MI-901-10                                                                           | MI-902-10 ●                    |                                                                                     |
| MI-116-00                            | 11,0 | MI-900-10 ●                                                                       | 8                | MI-901-11                                                                           | MI-902-10 ●                    |                                                                                     |
| MI-126-00                            | 12,5 | MI-900-12 ●                                                                       | 11               | MI-901-12                                                                           | MI-902-10 ●                    |                                                                                     |
| MI-556-00S                           | 5,5  | MI-900-05 ●                                                                       | 4                | MI-901-05                                                                           | MI-902-05 ●                    |                                                                                     |
| MI-116-00S                           | 11,0 | MI-900-10 ●                                                                       | 8                | MI-901-11                                                                           | MI-902-10 ●                    |                                                                                     |
| MI-126-00S                           | 12,5 | MI-900-12 ●                                                                       | 11               | MI-901-12                                                                           | MI-902-10 ●                    |                                                                                     |
| MI-030-00                            | 3,5  | MI-900-03 ●                                                                       | 2                | MI-901-03                                                                           | MI-902-03 ●                    |                                                                                     |
| MI-050-00                            | 5,0  | MI-900-05 ●                                                                       | 4                | MI-050-B                                                                            | MI-902-05 ●                    |                                                                                     |
| MI-0550-00                           | 5,5  | MI-900-05 ●                                                                       | 4                | MI-050-B                                                                            | MI-902-05 ●                    |                                                                                     |
| MI-070-00                            | 7,0  | MI-900-07 ●                                                                       | 6                | MI-050-B                                                                            | MI-902-05 ●                    |                                                                                     |
| MI-100-00                            | 10,0 | MI-900-10 ●                                                                       | 8                | MI-901-11                                                                           | MI-902-10 ●                    |                                                                                     |
| MI-110-00                            | 11,0 | MI-900-10 ●                                                                       | 8                | MI-901-11                                                                           | MI-902-10 ●                    |                                                                                     |
| MI-120-00                            | 12,5 | MI-900-12 ●                                                                       | 11               | MI-901-11                                                                           | MI-902-10 ●                    |                                                                                     |
| MI-130-00                            | 13,0 | MI-900-13 ●                                                                       | 10               | MI-901-11                                                                           | MI-902-10 ●                    |                                                                                     |
| MI-150-00                            | 15,0 | MI-900-15 ●                                                                       | 13               | MI-901-15                                                                           | MI-902-15 ●                    |                                                                                     |
| MI-200-00                            | 20,0 | MI-900-20 ●                                                                       | 18               | MI-901-20                                                                           | MI-902-20 ●                    |                                                                                     |
| MI-0550-00S                          | 5,5  | MI-900-05 ●                                                                       | 4                | MI-050-B                                                                            | MI-902-05 ●                    |                                                                                     |
| MI-110-00S                           | 11,0 | MI-900-10 ●                                                                       | 8                | MI-901-11                                                                           | MI-902-10 ●                    |                                                                                     |
| MI-120-00S                           | 12,5 | MI-900-12 ●                                                                       | 11               | MI-901-11                                                                           | MI-902-10 ●                    |                                                                                     |
| MI-055-00                            | 5,5  | MI-900-55 ○                                                                       | 4                | MI-901-06                                                                           | MI-902-06 ○                    |                                                                                     |
| MI-0110-00                           | 11,0 | MI-900-10 ●                                                                       | 8                | MI-050-B                                                                            | MI-902-11 ●                    |                                                                                     |
| MI-0130-00                           | 13,0 | MI-900-13 ●                                                                       | 10               | MI-050-B                                                                            | MI-902-13 ●                    |                                                                                     |
| MI-0055-00S                          | 5,5  | MI-900-55 ○                                                                       | 4                | MI-901-06                                                                           | MI-902-06 ○                    |                                                                                     |
| MI-0110-00S                          | 11,0 | MI-900-10 ●                                                                       | 8                | MI-050-B                                                                            | MI-902-11 ●                    |                                                                                     |
| MI-0130-00S                          | 13,0 | MI-900-13 ●                                                                       | 10               | MI-050-B                                                                            | MI-902-13 ●                    |                                                                                     |
|                                      |      | Silikondichtung / Silicon Sealing                                                 |                  |                                                                                     |                                |                                                                                     |
| MI-1055-00                           | 5,5  | MI-900-55 ○                                                                       | 4                | MI-903-03                                                                           |                                |                                                                                     |
| MI-1110-00                           | 11,0 | MI-900-10 ●                                                                       | 8                | MI-903-10                                                                           |                                |                                                                                     |
| MI-1130-00                           | 13,0 | MI-900-13 ●                                                                       | 10               | MI-903-10                                                                           |                                |                                                                                     |
| MI-1055-00                           | 5,5  | MI-900-55 ○                                                                       | 4                | MI-903-03                                                                           |                                |                                                                                     |
| MI-1110-00                           | 11,0 | MI-900-10 ●                                                                       | 8                | MI-903-10                                                                           |                                |                                                                                     |
| MI-1130-00                           | 13,0 | MI-900-13 ●                                                                       | 10               | MI-903-10                                                                           |                                |                                                                                     |



# Insufflationskanülen Insufflation Needles

Veress Insufflationskanüle  
(Ø 2,0 mm), Luer-Lock  
*Veress Insufflation needle*  
(Ø 2,0 mm), Luer-Lock

Veress "High Flow"  
Insufflationskanüle  
(Ø 2,7 mm), Luer-Lock  
*Veress "High Flow" Insufflation*  
*needle (Ø 2,7 mm) Luer-Lock*



| NL mm<br>WL mm |            |           |
|----------------|------------|-----------|
| 55             | MI-205-00  | -         |
| 70             | MI-207-00  | -         |
| 80             | MI-208-00  | -         |
| 100            | MI-210-00  | MI-210-20 |
| 120            | MI-212-00  | MI-212-20 |
| 130            | MI-213-00  | -         |
| 140            | MI-214-00  | -         |
| 150            | MI-215-00  | MI-215-20 |
| 170            | MI -217-00 | MI-217-20 |
| 180            | MI-218-00  | -         |
| 200            | MI-220-00  | -         |
| 230            | MI-223-00  | -         |





Zubehör Laparoskopie  
Accessories Laparoscopy

**Leberelevator**  
Spülanschluß, 3 Finger  
**Fan Retractor**  
irrigation system, 3 fingers

|              |                                                   |           |
|--------------|---------------------------------------------------|-----------|
| Ø 5 × 330 mm | gerade / straight                                 | MI-534-04 |
| Ø 5 × 330 mm | Spitze gebogen / tip curved                       | MI-534-05 |
| Ø 5 × 330 mm | abwinkelbar / angled                              | MI-533-06 |
| Ø 5 × 330 mm | abwinkelbar, Spitze gebogen<br>angled, tip curved | MI-533-07 |

**Leberelevator**  
Spülanschluß, 5 Finger  
**Fan Retractor**  
irrigation system, 5 fingers

|               |                                                   |           |
|---------------|---------------------------------------------------|-----------|
| Ø 10 × 340 mm | gerade / straight                                 | MI-136-04 |
| Ø 10 × 340 mm | Spitze gebogen / tip curved                       | MI-136-05 |
| Ø 10 × 340 mm | abwinkelbar / angled                              | MI-134-06 |
| Ø 10 × 340 mm | abwinkelbar, Spitze gebogen<br>angled, tip curved | MI-134-07 |

**Leberelevator**  
zerlegbar, schwenkbar,  
spreizbar, 5 Finger  
**Fan Retractor**  
detachable, horizontally and  
vertically adjustable, 5 fingers

|               |           |
|---------------|-----------|
| Ø 10 × 380 mm | MI-133-02 |
| Ø 10 × 480 mm | MI-145-02 |

**Cholangiogramm-Fixierzange**  
mit Sperrengriff  
**Cholangiogramm-Fixation**  
Clamp with ratched handle

|              |          |
|--------------|----------|
| Ø 5 × 330 mm | MI-94200 |
|--------------|----------|

**Knotenführer mit Öse**  
Ø 4 x 330 mm  
Ø 4 x 450 mm

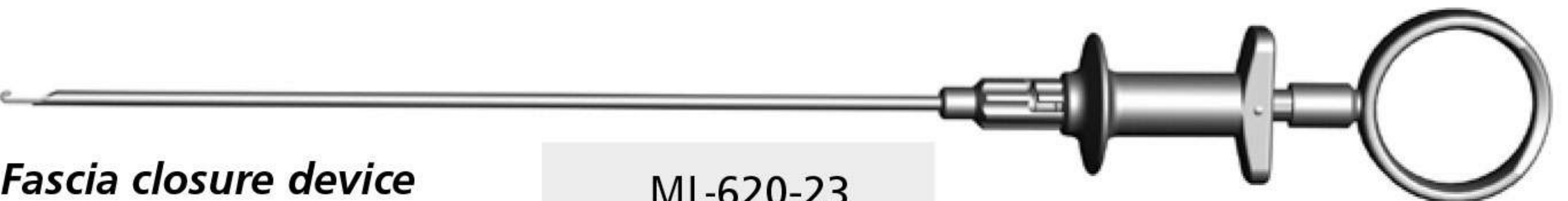
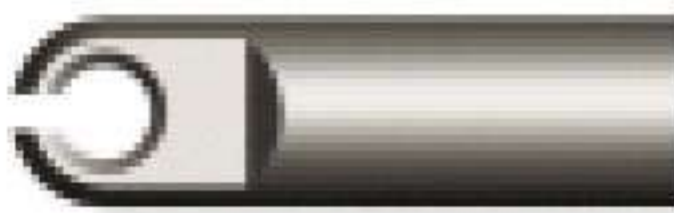
**Knot pusher with eye**  
Ø 4 x 330 mm  
Ø 4 x 450 mm

|           |
|-----------|
| MI-600-10 |
| MI-600-11 |

**Fascia-Nähhilfe**  
Ø 2,3 x 140 mm

**Fascia closure device**  
Ø 2,3 x 140 mm

|           |
|-----------|
| MI-620-23 |
|-----------|





Saug- / Spülsysteme

Suction- / Irrigationsystems

Griff mit Luer-Lock Anschluß,  
Trompetenventil

Handle with Luer-Lock connection,  
trumpet valve

Griff mit Schlauchanschluß,  
Schiebeventil

Handle with tube connection,  
sliding valve

Griff mit Schlauchanschluß,  
Trompetenventil

Handle with tube connection,  
trumpet valve

Griff mit großem Schlauchanschluß,  
Trompetenventil

Handle with big tube connection,  
trumpet valve



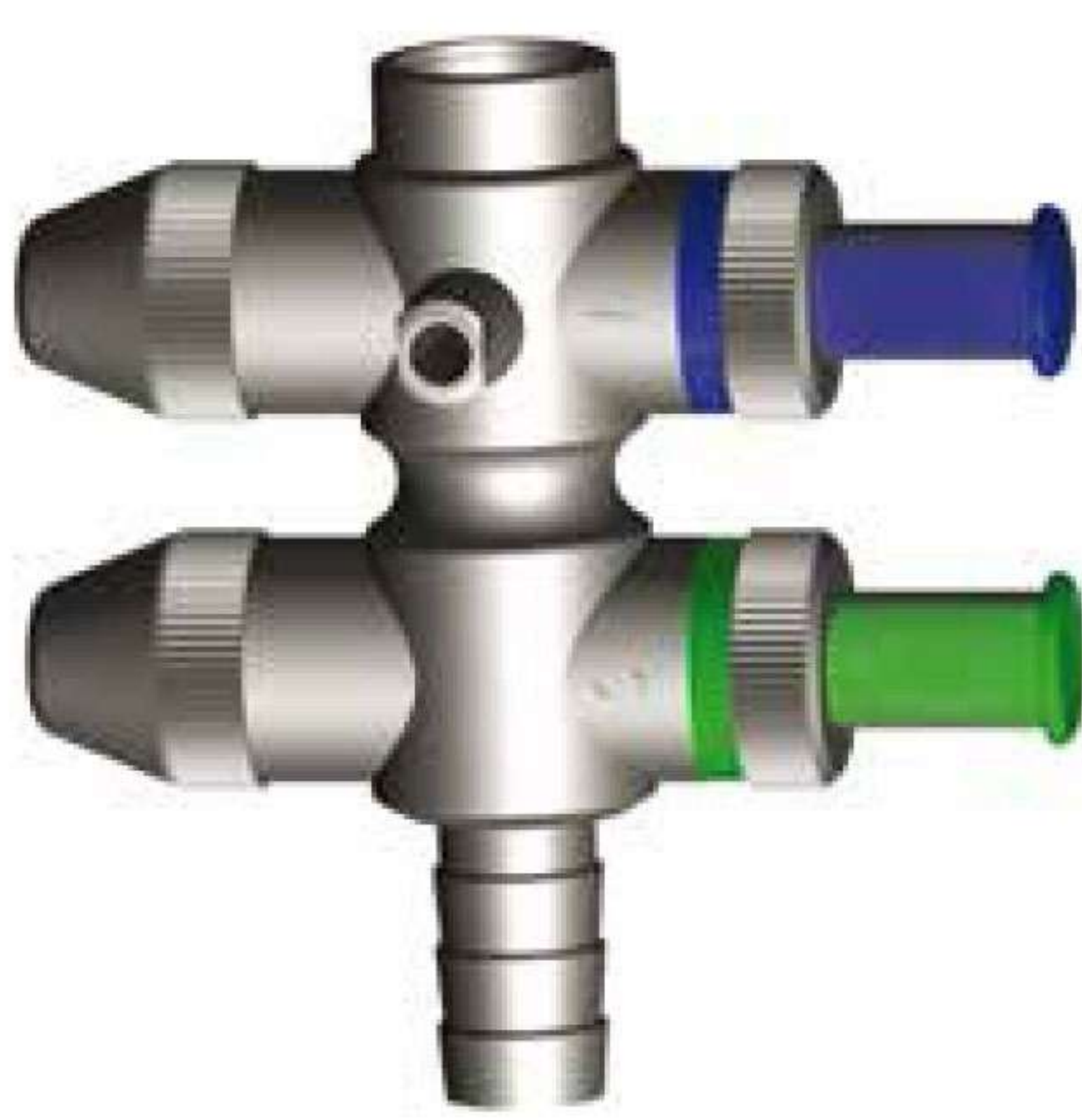
MI-000-20



MI-000-21



MI-000-18



MI-133-10

Bohrungen  
Holes

|                |    |           |  |
|----------------|----|-----------|--|
| Ø 2,8 × 250 mm | 8  | MI-000-10 |  |
| Ø 2,8 × 330 mm | 8  | MI-000-12 |  |
| Ø 5,0 × 330 mm | 4  | MI-000-22 |  |
| Ø 5,0 × 330 mm | 48 | MI-000-23 |  |
| Ø 5,0 × 330 mm | 12 | MI-000-24 |  |
| Ø 5,0 × 330 mm | 48 | MI-000-25 |  |
| Ø 5,0 × 500 mm | 48 | MI-000-26 |  |
| Ø 5,0 × 330 mm |    | MI-000-27 |  |
| Ø 5,0 × 330 mm |    | MI-000-28 |  |

Bohrungen  
Holes

|    |                |           |  |
|----|----------------|-----------|--|
| 32 | Ø 10 × 330 mm  | MI-133-11 |  |
| 16 | Ø 5,0 × 330 mm | MI-133-12 |  |
| 16 | Ø 3,5 × 240 mm | MI-133-13 |  |





## Saug- / Spülsysteme 2 in 1 - System

## Suction- / Irrigationsystems 2 in 1 - System

Griff mit einem Trompetenventil und drehbarem Elektrodenadapter, kombinierter Luer-Lock- / Schlauchanschluss, seitlicher HF-Anschluß; zu verwenden mit Elektroden auf Seite 47.

*Handle with single trumpet valve, rotatable adapter for electrodes, combined Luer-Lock / tube connection, side-wise HF-connection; to use with electrodes on page 47.*

Griff mit Schiebeventil und drehbarem Elektrodenadapter, kombinierter Luer-Lock-/Schlauchanschluss, seitlicher HF-Anschluß; zu verwenden mit Elektroden auf Seite 47.

*Handle with sliding valve, rotatable adapter for electrodes, combined Luer-Lock/tube connections, side-wise HF-connection; to use with electrodes on page 47.*



MI -000-51



MI -000-52



2 in 1 System,  
Saug-Spülen und monopolares Koagulieren

2 in 1 System,  
Suction-Irrigation and monopolar coagulation



|                                       |           |
|---------------------------------------|-----------|
| Pistolengriff<br><i>Pistol-Handle</i> | MI-000-30 |
|---------------------------------------|-----------|

**Möglichkeiten:**

- 1. Pistolengriff + Saug-Spül-Rohre
- 2. Pistolengriff + Adapter + monopolare Elektroden

**Possibilities:**

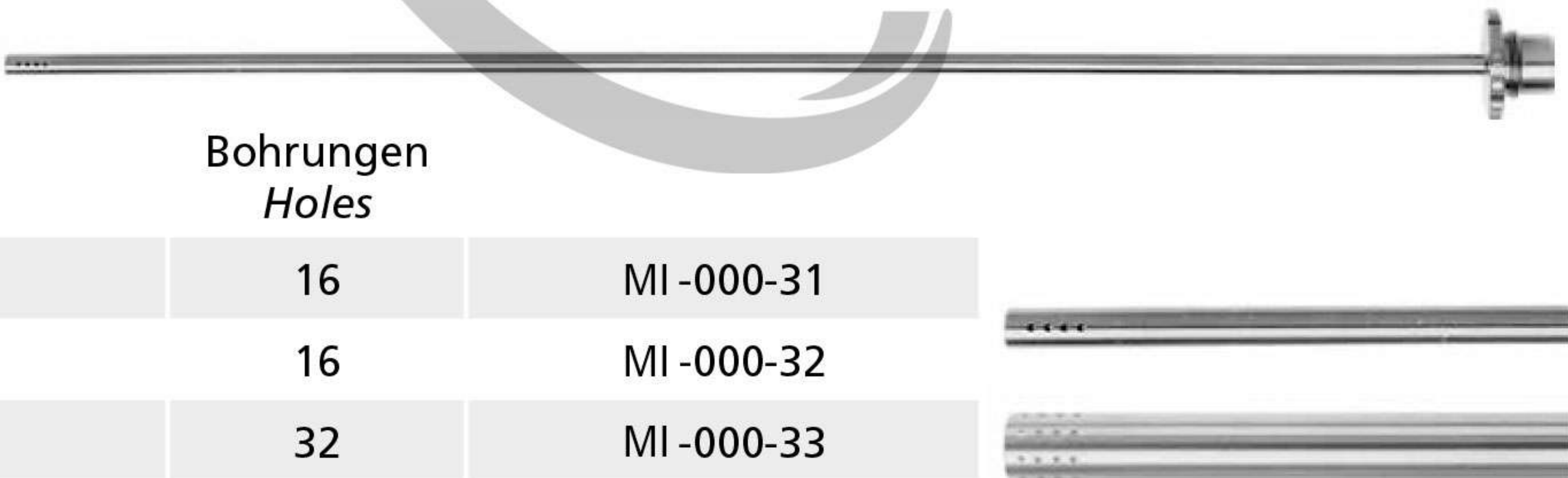
- 1. Pistol-Handle + Suction/Irrigation Tubes
- 2. Pistol-Handle + connector + monopolar electrodes



|                                                           |           |
|-----------------------------------------------------------|-----------|
| Adapter für Elektroden<br><i>Connector for electrodes</i> | MI-000-34 |
|-----------------------------------------------------------|-----------|

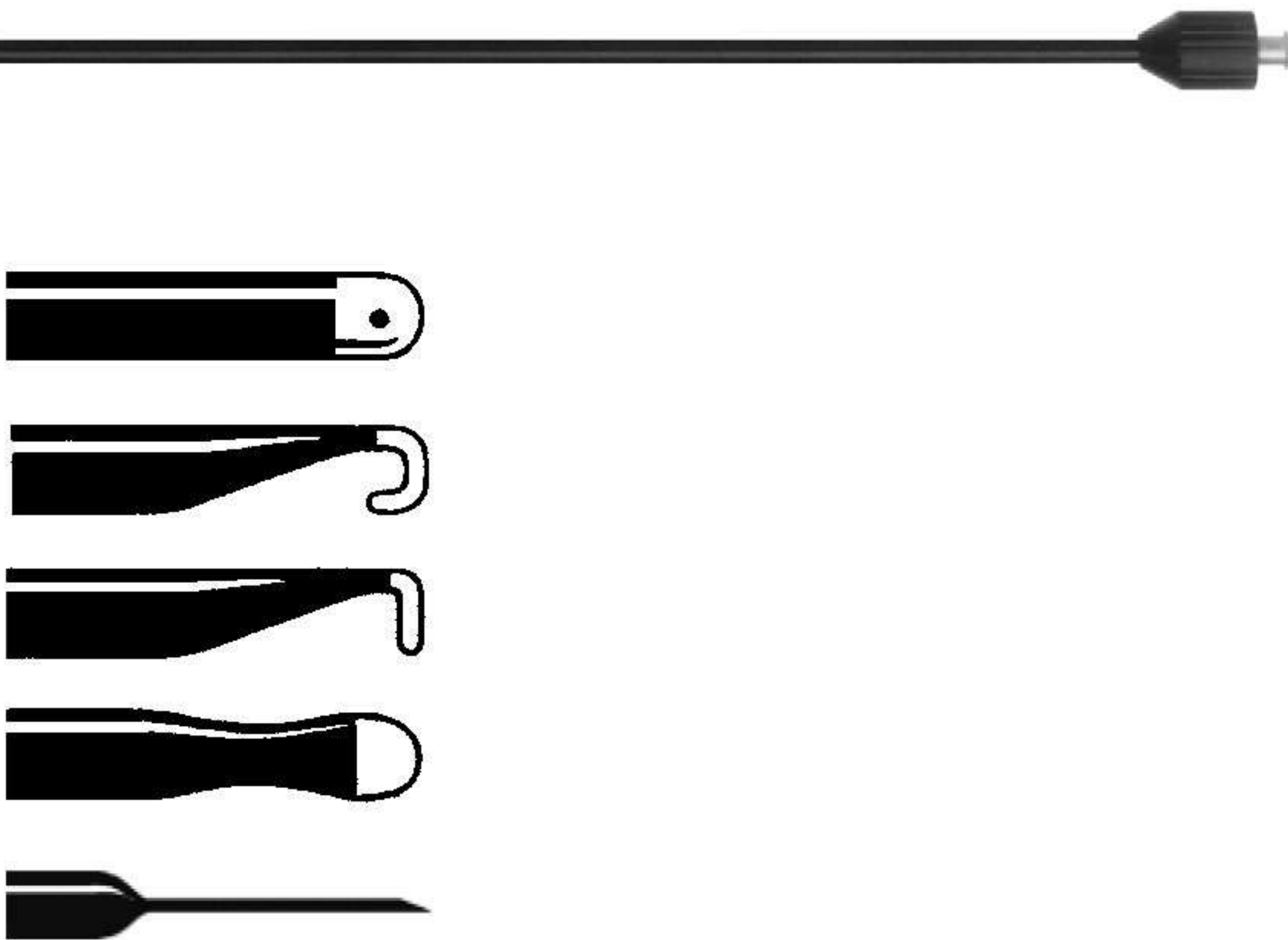
Saug-/Spülrohre  
für Griff H80-000-30  
*Suction-Irrigation Tubes  
for handle H80-000-30*

|                | Bohrungen<br><i>Holes</i> |           |
|----------------|---------------------------|-----------|
| Ø 3,0 x 330 mm | 16                        | MI-000-31 |
| Ø 5,0 x 330 mm | 16                        | MI-000-32 |
| Ø 10 x 330 mm  | 32                        | MI-000-33 |



Monopolare Elektroden mit Absaugung, 360° drehbar  
für Griff H80-000-30, H80-000-51 und H80-000-52  
*Monopolar electrodes with suction tube, 360° rotatable  
for handle H80-000-30, H80-000-51 and H80-000-52*

|              |           |
|--------------|-----------|
| Ø 5 x 330 mm | MI-000-35 |
| Ø 5 x 330 mm | MI-000-36 |
| Ø 5 x 330 mm | MI-000-37 |
| Ø 5 x 330 mm | MI-000-38 |
| Ø 5 x 330 mm | MI-000-39 |







Elektroden  
und Kabel  
*Electrodes  
and Cables*

Monopolar-Elektrode  
mit Keramik, ohne  
Absaugung, vollisoliert,  
4 mm Stecker, für HF- und  
RF-Generatoren geeignet

*Monopolar-electrode  
with ceramic without  
suction, fully insulated,  
4 mm plug, applicable for  
HF- and RF-generators*

Monopolar-Elektrode  
mit Keramik und  
Absaugung, vollisoliert,  
4 mm Stecker, für HF- und  
RF-Generatoren geeignet

*Monopolar-electrode  
with ceramic and suction,  
fully insulated, 4 mm plug,  
applicable for HF- and RF-  
generators*



|                                                                                          |                                                                                     |                                                    |                                        |                               |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------|-------------------------------|
| Knopfelektrode<br><i>Button electrode</i>                                                |  | Ø 3,0 × 295 mm<br>Ø 5,0 × 330 mm<br>Ø 5,0 × 450 mm | MI-333-100<br>MI-533-100<br>MI-545-100 | -<br>-<br>-                   |
| Rundhakenelektrode<br><i>Dissection<br/>hook electrode</i>                               |  | Ø 3,0 × 295 mm<br>Ø 5,0 × 330 mm<br>Ø 5,0 × 450 mm | MI-333-101<br>MI-533-101<br>MI-545-101 | -<br>MI-533-141<br>MI-545-141 |
| Hakenelektrode 90°<br><i>Dissection hook electrode,<br/>right angled</i>                 |  | Ø 3,0 × 295 mm<br>Ø 5,0 × 330 mm<br>Ø 5,0 × 450 mm | MI-333-102<br>MI-533-102<br>MI-545-102 | -<br>MI-533-142<br>MI-545-142 |
| Spatelektrode<br><i>Dissection<br/>spatula electrode</i>                                 |  | Ø 3,0 × 295 mm<br>Ø 5,0 × 330 mm<br>Ø 5,0 × 450 mm | -<br>MI-533-103<br>MI-545-103          | -<br>MI-533-143<br>MI-545-143 |
| Nadelelektrode<br><i>Needle electrode</i>                                                |  | Ø 3,0 × 295 mm<br>Ø 5,0 × 330 mm<br>Ø 5,0 × 450 mm | -<br>-<br>-                            | -<br>-<br>-                   |
| Griff für geschlossene<br>Elektroden<br><i>Handle for electrodes<br/>without suction</i> |  |                                                    | -                                      | -                             |



Monopolar-Elektrode  
ohne Absaugung,  
vollisoliert,  
4 mm Stecker.

*Monopolar-electrode  
without suction,  
fully insulated,  
4 mm plug.*

Monopolar-Elektrode  
mit Lueranschluß,  
vollisoliert,  
4 mm Stecker.

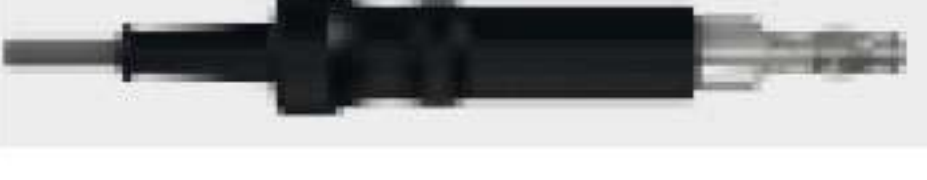
*Monopolar-electrode  
with Luer-Lock  
connection,  
fully insulated,  
4 mm plug.*

Monopolarsauger  
mit Trompetenventil,  
vollisoliert,  
4 mm Stecker.

*Monopolar suction unit  
with trumpet valve,  
fully insulated,  
4 mm plug.*

|                                                                                     |                |                                                                                     |                                                                                      |                                                                                      |
|-------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                                                                     |                |  |  |  |
|  | Ø 3,0 × 295 mm | MI-333-110                                                                          | -                                                                                    | -                                                                                    |
|                                                                                     | Ø 5,0 × 330 mm | MI-533-110                                                                          | MI-533-120                                                                           | MI-533-130                                                                           |
|                                                                                     | Ø 5,0 × 450 mm | MI-545-110                                                                          | MI-545-120                                                                           | MI-545-130                                                                           |
|  | Ø 3,0 × 295 mm | MI-333-111                                                                          | -                                                                                    | -                                                                                    |
|                                                                                     | Ø 5,0 × 330 mm | MI-533-111                                                                          | MI-533-121                                                                           | MI-533-131                                                                           |
|                                                                                     | Ø 5,0 × 450 mm | MI-545-111                                                                          | MI-545-121                                                                           | MI-545-131                                                                           |
|  | Ø 3,0 × 295 mm | MI-333-112                                                                          | -                                                                                    | -                                                                                    |
|                                                                                     | Ø 5,0 × 330 mm | MI-533-112                                                                          | MI-533-122                                                                           | MI-533-132                                                                           |
|                                                                                     | Ø 5,0 × 450 mm | MI-545-112                                                                          | MI-545-122                                                                           | MI-545-132                                                                           |
|  | Ø 3,0 × 295 mm | MI-333-113                                                                          | -                                                                                    | -                                                                                    |
|                                                                                     | Ø 5,0 × 330 mm | MI-533-113                                                                          | MI-533-123                                                                           | MI-533-133                                                                           |
|                                                                                     | Ø 5,0 × 450 mm | MI-545-113                                                                          | MI-545-123                                                                           | MI-545-133                                                                           |
|  | Ø 3,0 × 295 mm | MI-333-114                                                                          | -                                                                                    | -                                                                                    |
|                                                                                     | Ø 5,0 × 330 mm | MI-533-114                                                                          | MI-533-124                                                                           | MI-533-134                                                                           |
|                                                                                     | Ø 5,0 × 450 mm | MI-545-114                                                                          | MI-545-124                                                                           | MI-545-134                                                                           |
|                                                                                     |                | MI-533-000                                                                          | -                                                                                    | -                                                                                    |

**Monopolare Anschlusskabel**  
*Monopolar connecting cables*

|              | 3 m        | 5 m        | Instrumentenseite                                                                     | Geräteseite                                                                           |
|--------------|------------|------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Hermann 4 mm | MI-903-030 | MI-903-050 |  |  |
| Valleylab    | MI-903-035 | MI-903-055 |  |  |
| Erbe ICC/ACC | MI-300-00S | MI-500-00S |  |  |





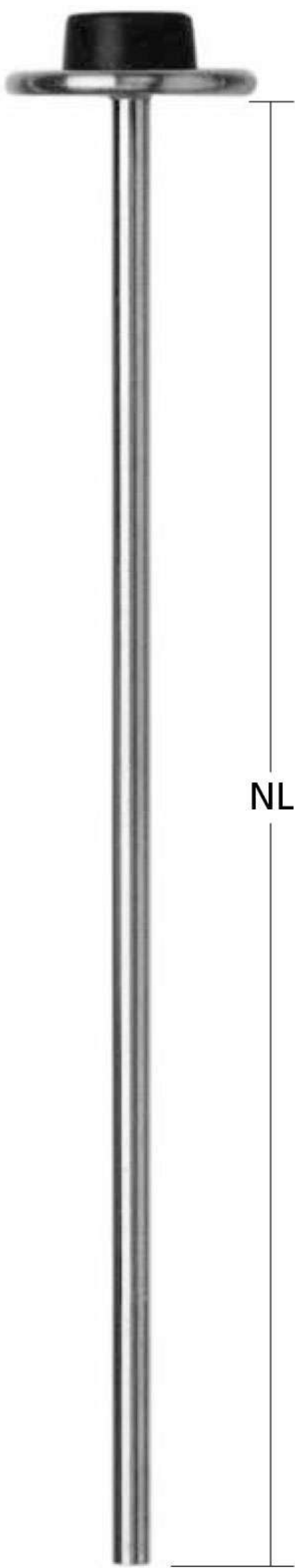
Sonstiges  
Others

Applikator  
für Endo-Naht  
*Applicator  
for Endo-Ligature*

Taststab,  
graduiert  
*Palpation Probe,  
graduated*

Saug-/Spülkanüle  
mit Laserführung,  
2 Trompetenventile,  
Vierkantgriff  
*Suction-/Irrigation  
Tube with central  
Tube for Laser Fibre*

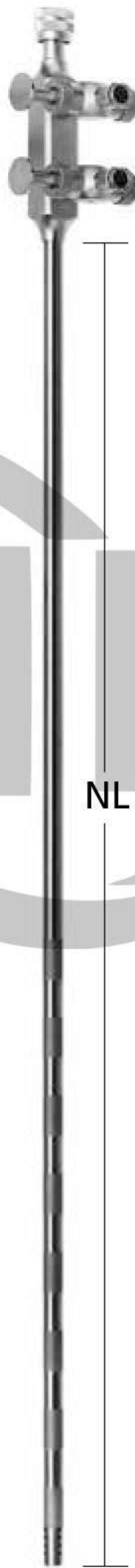
Punktions-/  
Injektionskanüle,  
Luer-Lock Anschluß,  
Nadellänge 20 mm  
*Punction-/  
Injection Needle, Luer-  
Lock connection,  
length of needle 20 mm*



NL / WL



NL / WL



NL / WL



| Ø mm | NL mm<br>WL mm |            |            |             |            | Nadel-Ø mm<br>Needle-Ø mm |
|------|----------------|------------|------------|-------------|------------|---------------------------|
| 4-5  | 175            | MI -000-19 | -          | -           | -          |                           |
| 2,8  | 250            | -          | MI -325-12 | MI -325-15* | -          |                           |
| 5    | 300            | -          | MI -530-12 | -           | -          |                           |
| 2,8  | 330            | -          | MI -333-12 | MI -333-15* | MI -333-18 | 1,2                       |
| 5    | 330            | -          | -533-12    | -           | MI -530-18 | 1,4                       |
| 5    | 340            | -          | -          | MI -533-15  | -          |                           |
| 5    | 400            | -          | -540-12    | -           | -          |                           |
| 5    | 450            | -          | -545-12    | -           | MI -545-18 | 1,4                       |

\*nicht mit Laserführung  
\*without laser guide



Einstechedorn  
*Thorn for rinsing  
 bottle*



NL mm  
 WL mm

|     |            |
|-----|------------|
|     | MI-000-060 |
| 190 | MI-000-061 |
|     | MI-000-062 |

Dilatationssatz  
*Dilatation Set*



Ø von - auf mm  
 Ø from - to mm

|         |            |
|---------|------------|
| 5 - 10  | MI-510-11  |
| 5 - 11  | MI-511-11  |
| 10 - 15 | MI-1015-11 |
| 5 - 15  | MI-515-11  |
| 10 - 20 | MI-1020-11 |
| 5 - 20  | MI-520-11  |

Saug-Spülkanüle mit Hahn,  
 Luer-Lock Anschluß,  
 graduert, 16 Bohrungen

*Suction/Irrigation tube  
 with stopcock,  
 Luer-Lock connection,  
 graduated, 16 holes*



NL / WL  
 330 mm

Ø mm NL mm  
 WL mm

|   |     |           |
|---|-----|-----------|
| 5 | 330 | MI-533-17 |
| 5 | 450 | MI-545-17 |

S-Retraktor (Paar)  
*S-retractor (pair)*



Ø mm

|     |           |
|-----|-----------|
| 5,5 | MI-650-01 |
| 11  | MI-650-02 |





## Bipolare Koagulation

### Bipolar Coagulation

#### Griff Standard

incl. Außen- und Innenrohr,  
ohne Elektrode, zerlegbar

#### Handle Standard

incl. inner and outer  
tube, without electrodes,  
detachable



| Ø mm | Länge mm<br>Length mm |           |
|------|-----------------------|-----------|
| 3    | 340                   | MI -30000 |
| 5    | 340                   | MI -00000 |
| 5    | 450                   | MI -00005 |
| 5    | 200                   | MI -00050 |

#### Ringgriff

incl. Außen- und  
Innenrohr, ohne  
Elektrode, zerlegbar

#### Ring Handle

incl. inner and outer  
tube, without  
electrodes,  
detachable



| Ø mm | Länge mm<br>Length mm |           |
|------|-----------------------|-----------|
| 3    | 340                   | MI -30001 |
| 5    | 340                   | MI -10000 |
| 5    | 450                   | MI -10005 |
| 5    | 200                   | MI -10050 |



Elektroden für  
Koagulationszangen S. 54

Electrodes for Coagulation  
forceps page 54

|                                                                                                                                                                           | Ø 3 × 340 mm | Ø 5 × 340 mm | Ø 5 × 450 mm | Ø 5 × 200 mm |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|
|  Gewellter Steg<br><i>Rippled bar</i>                                                    | MI-30010     | MI-10010     | MI-10020     | MI-10060     |
|  Pinzettenspitze, 1mm<br><i>Fluted bit, 1mm</i>                                          | MI-30011     | MI-10011     | MI-10021     | MI-10061     |
|  Kleppinger, gerieft<br><i>Kleppinger, serrated</i>                                      | -            | MI-10013     | MI-10023     | MI-10063     |
|  Zangenart, Maul 3 mm<br><i>Tong-type bit, 3 mm</i>                                    | -            | MI-10015     | MI-10025     | MI-10065     |
|  Schere, gebogen<br><i>Scissors, curved</i>                                            | -            | MI-10017     | MI-10027     | MI-10067     |
|  Schere mit Hartmetall-<br>schneide, gebogen<br><i>Scissors with TC blades, curved</i> | -            | MI-10018     | MI-10028     | MI-10068     |
|  Dissektor Maryland, gebogen<br><i>Dissector Maryland, curved</i>                      | -            | MI-10019     | MI-10029     | MI-10069     |

Anschlußkabel für Koagulationszangen S. 54

Cables for Coagulation Forceps page 54

| Geräteseite<br><i>Generator side</i>                                                                                                                                                                         | Instrumentenseite<br><i>Instrument side</i> |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------|
|                                                                                                                                                                                                              | Ø 3 mm, 3m                                  | Ø 5 mm, 3m |
|  2-Bananenstecker (entspricht nicht EU-Bestimmungen)<br><i>2 Banana-plug (not conform to EU-regulations)</i>              | MI-30100                                    | MI-00104   |
|  U20                                                                                                                      | MI-30110                                    | MI-00106   |
|  Valleylab / Hermann                                                                                                      | MI-30101                                    | MI-00105   |
|  Martin                                                                                                                   | MI-30102                                    | MI-00102   |
|  Erbe                                                                                                                     | MI-30103                                    | MI-00103   |
|  Adapterstecker zu verwenden mit bipolarem Flachstecker-Kabel<br><i>Adapter plug to use with bipolar flat plug cables</i> | MI-00400                                    |            |





Bipolare Koagulation  
Bipolar Coagulation

Ringgriff aktiv inkl. Schaft  
Ring Handle active incl. shaft

| Ø mm | Länge mm<br>Length mm |          |
|------|-----------------------|----------|
| 5    | 340                   | MI-10001 |



Elektroden  
für Ringgriff aktiv  
Electrodes  
for Ring Handle active

Ø 5 × 340 mm

Große Faßzange  
Large grasping forceps

MI-00010

Schere, gebogen  
Scissors, curved

MI-00018

Dissektor Maryland, gebogen  
Dissector Maryland, curved

MI-00019

Pinzette, gebogen  
Forceps, curved

MI-00011

Fasszange, gebogen  
Grasping forceps, curved

MI-00015

Delta Faßzange, gebogen  
Delta Forceps, curved

MI-00014

Bipolare Haken  
und Nadeln  
Bipolar Hooks  
and Needles

Ø 3 mm

Bipolarer L-Haken  
Bipolar L-Hook

MI-30200

Bipolarer V-Haken  
Bipolar V-Hook

MI-30700

Bipolare Nadel  
Bipolar Needle

MI-30600

Bipolare Flachstecker-Kabel  
Bipolar flat plug cables

3 m

5 m

2 Bananenstecker, entspricht  
nicht EU-Bestimmungen  
2 Banana-Plug, non-compliant  
with EU-standards

MI-00010

MI-00013

U20

MI-00260 (4 m)

Erbe  
Erbe

MI-00017

MI-00018

Martin, Berchtold,  
Aesculap GK55, GK60  
Martin, Berchtold,  
Aesculap GK55, GK60

MI-00019

MI-00020

Valleylab, Lamidey, EMC  
Valleylab, Lamidey, EMC

MI-00021

MI-00022





**HD Laparoscope**  
**HD Laparoscopes**

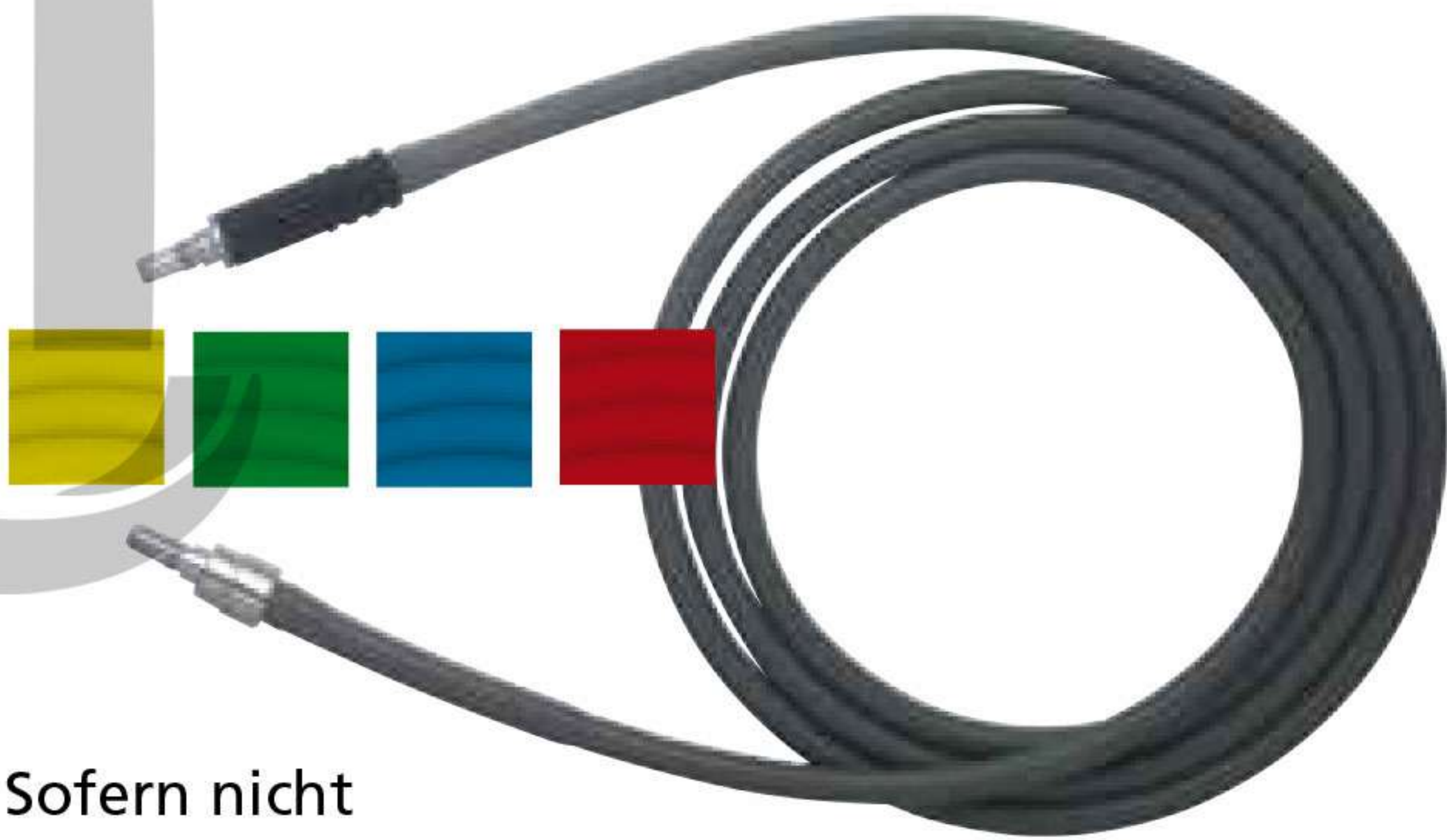
| Ø mm | Blickrichtung<br>Direction of view | Arbeitslänge<br>working lengths mm |            |
|------|------------------------------------|------------------------------------|------------|
| 10,0 | 0°                                 | 310                                | MI-100-000 |
| 10,0 | 30°                                | 310                                | MI-100-030 |
| 10,0 | 45°                                | 310                                | MI-100-045 |
| 5,0  | 0°                                 | 300                                | MI-050-000 |
| 5,0  | 30°                                | 300                                | MI-050-030 |
| 5,0  | 45°                                | 300                                | MI-050-045 |
| 3,0  | 0°                                 | 300                                | MI-030-000 |
| 3,0  | 30°                                | 300                                | MI-030-030 |

**4K Laparoscope**  
**4K Laparoscopes**

| Ø mm | Blickrichtung<br>Direction of view | Arbeitslänge<br>working lengths mm |          |
|------|------------------------------------|------------------------------------|----------|
| 10,0 | 0°                                 | 310                                | -103-000 |
| 10,0 | 30°                                | 310                                | -103-030 |
| 10,0 | 45°                                | 310                                | -103-045 |
| 5,0  | 0°                                 | 300                                | -053-000 |
| 5,0  | 30°                                | 300                                | -053-030 |
| 5,0  | 45°                                | 300                                | -053-045 |

**Lichtleitkabel inkl. Adapter**  
Autoklavierbar, hochflexibel und zugfest  
**Cold Light Cable incl. adapter**  
Autoclavable, high flexibility and tensile strength

| Ø mm | Länge<br>Length mm |             |
|------|--------------------|-------------|
| 3,5  | 1800               | MI -180-035 |
| 3,5  | 2300               | MI -230-035 |
| 3,5  | 3000               | MI -300-035 |
| 4,8  | 1800               | MI -180-045 |
| 4,8  | 2300               | MI -230-045 |
| 4,8  | 3000               | MI -300-045 |



Sofern nicht anders vermerkt, liefern wir passend zu STORZ-Anschluß. Lichtleitkabel auch für Xenon-Lampen 300 W geeignet. Weitere Adapter verfügbar. Siehe Katalog "Endoscopic Units".  
*If not stated differently we supply fitting to STORZ connection. Light guides as well appropriate for Xenon lamps 300 W. Further adapters available. Please see our catalog "Endoscopic Units".*

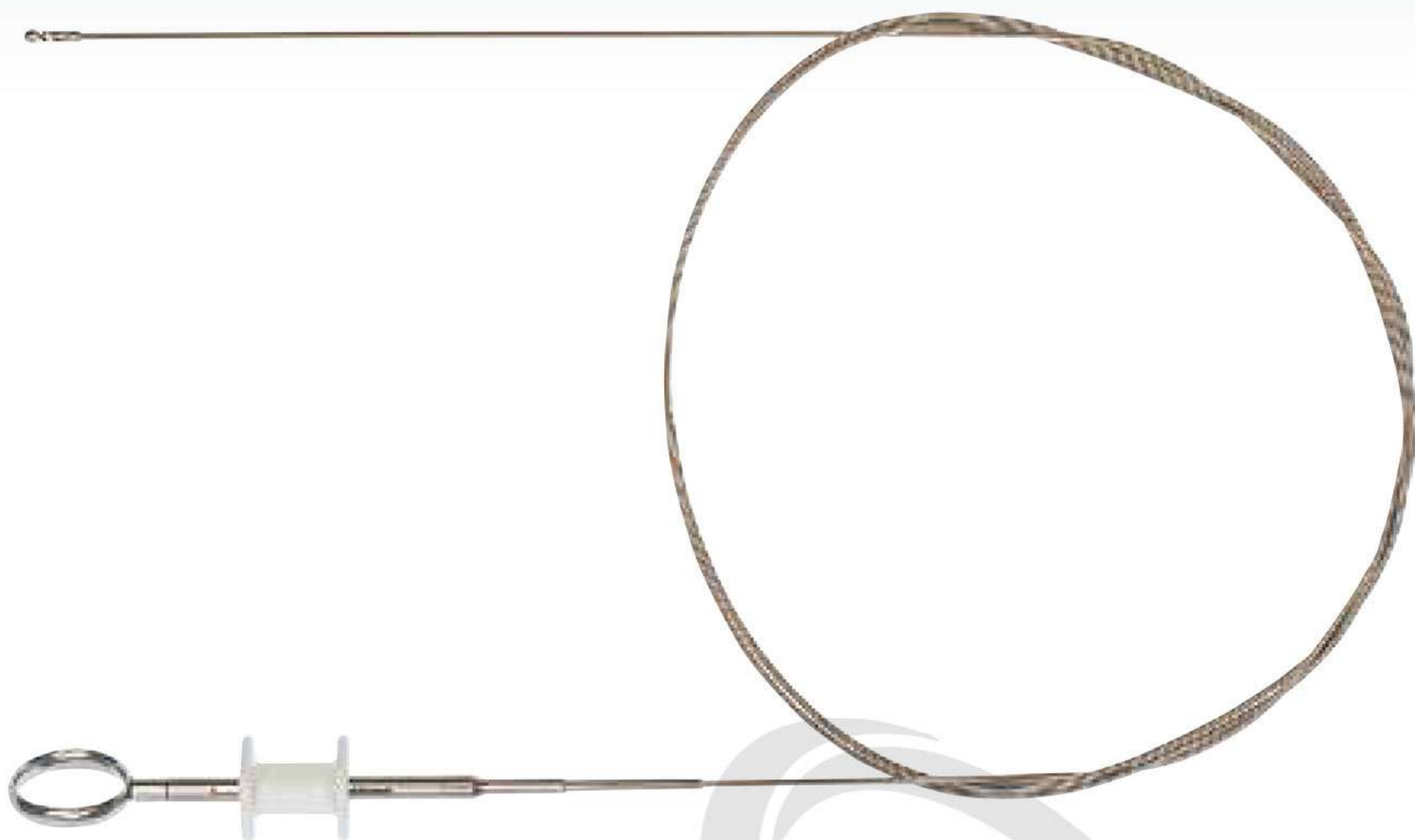
Diese Kabel sind auch in den Farben blau, grün, gelb und rot erhältlich. Bitte in diesen Fällen die Farbe hinter die Artikelnummer schreiben.  
*These cables are also available in blue, green, yellow and red - just mention colour behind reference number.*





Flexible Biopsie-Zangen mit Fenster

Flexible Biopsy Forceps, fenestrated



Biopsie-Zange,  
runder Löffel

Biopsy Forceps,  
round cup



| Ø mm | 100 cm      | 150 cm      | 180 cm      | 220 cm      |
|------|-------------|-------------|-------------|-------------|
| 1,8  | MI -1810-80 | MI -1815-80 | MI -1818-80 | MI -1822-80 |
| 2,2  | MI -2210-80 | MI -2215-80 | MI -2218-80 | MI -2222-80 |
| 3,5  | MI -3410-80 | MI -3415-80 | MI -3418-80 | MI -3422-80 |

Biopsie-Zange  
mit Dorn,  
runder Löffel

Biopsy Forceps  
with thorn,  
round cup



|     |             |             |             |             |
|-----|-------------|-------------|-------------|-------------|
| 1,8 | MI -1810-81 | MI -1815-81 | MI -1818-81 | MI -1822-81 |
| 2,2 | MI -2210-81 | MI -2215-81 | MI -2218-81 | MI -2222-81 |
| 3,5 | -3410-81    | -3415-81    | -3418-81    | -3422-81    |

Biopsie-Zange,  
ovaler Löffel

Biopsy Forceps,  
oval cup



|     |             |             |             |             |
|-----|-------------|-------------|-------------|-------------|
| 1,8 | MI -1810-82 | MI -1815-82 | MI -1818-82 | MI -1822-82 |
| 2,2 | MI -2210-82 | MI -2215-82 | MI -2218-82 | MI -2222-82 |
| 2,6 | MI -2610-82 | MI -2615-82 | MI -2618-82 | MI -2622-82 |
| 3,0 | MI -3010-82 | MI -3015-82 | MI -3018-82 | MI -3022-82 |

Biopsie-Zange  
mit Dorn,  
ovaler Löffel

Biopsy Forceps  
with thorn,  
oval cup

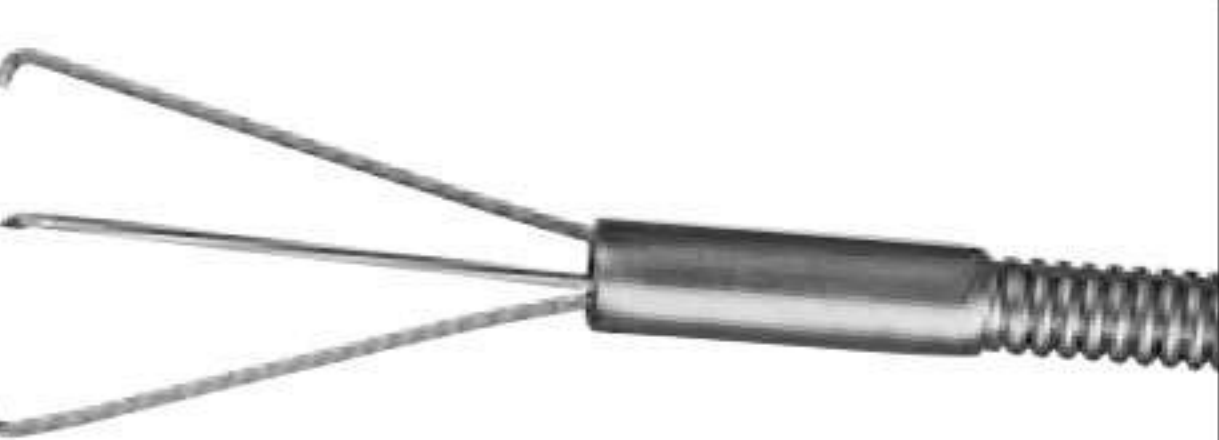
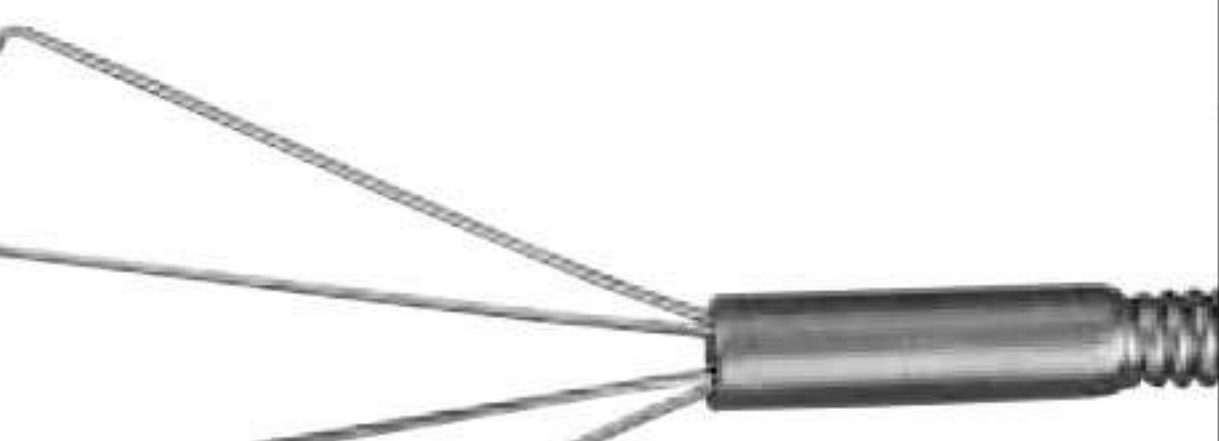
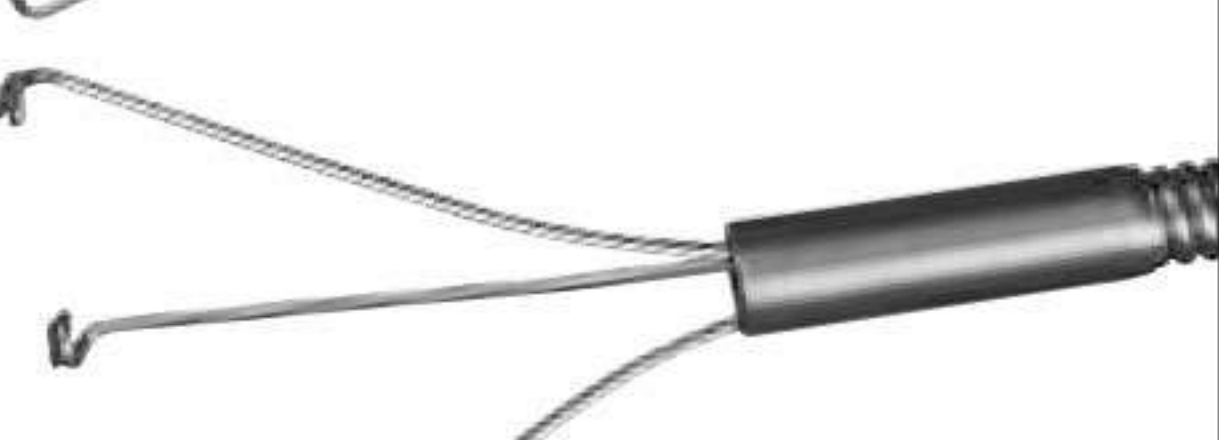


|     |             |             |             |             |
|-----|-------------|-------------|-------------|-------------|
| 1,8 | MI -1810-83 | MI -1815-83 | MI -1818-83 | MI -1822-83 |
| 2,2 | MI -2210-83 | MI -2215-83 | MI -2218-83 | MI -2222-83 |
| 2,6 | MI -2610-83 | MI -2615-83 | MI -2618-83 | MI -2622-83 |
| 3,0 | MI -3010-83 | MI -3015-83 | MI -3018-83 | MI -3022-83 |



## Flexible Faßzangen

### Flexible Grasping Forceps

|                                                                                            |                                                                                      | Ø mm | 100 cm      | 150 cm      | 180 cm      | 220 cm      |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------|-------------|-------------|-------------|-------------|
| Hechtmaul, voll<br><i>Jack mouth, full</i>                                                 |    | 1,8  | MI-1810-86  | MI-1815-86  | MI-1818-86  | MI-1822-86  |
|                                                                                            |                                                                                      | 2,2  | MI-2210-86  | MI-2215-86  | MI-2218-86  | MI-2222-86  |
| Hechtmaul, hohl<br><i>Jack mouth, hollow</i>                                               |    | 1,8  | MI-1810-84  | MI-1815-84  | MI-1818-84  | MI-1822-84  |
|                                                                                            |                                                                                      | 2,2  | MI-2210-84  | MI-2215-84  | MI-2218-84  | MI-2222-84  |
| Faßzange, 1 x 2 Zähne<br><i>Grasping Forceps, 1 x 2 teeth</i>                              |    | 2,6  | MI -        | MI-2615-84  | MI -        | MI-2622-84  |
|                                                                                            |                                                                                      | 1,8  | MI-1810-74  | MI-1815-74  | MI-1818-74  | MI-1822-74  |
| Hechtmaul mit Längs- und Querzähnen<br><i>Jack mouth with teeth length- and cross wise</i> |  | 2,2  | MI-2210-74  | MI-2215-74  | MI-2218-74  | MI-2222-74  |
|                                                                                            |                                                                                      | 2,2  | MI-2210-73  | MI-2215-73  | MI-2218-73  | MI-2222-73  |
| Fadenstanze<br><i>Punch for threads</i>                                                    |  | 2,2  | MI-2210-88  | MI-2215-88  | MI-2218-88  | MI-2222-88  |
|                                                                                            |                                                                                      |      |             |             |             |             |
|                                                                                            |                                                                                      | Ø mm | 100 cm      | 150 cm      | 180 cm      | 220 cm      |
| Faßzange, 1 x 2 Zähne<br><i>Grasping Forceps, 1 x 2 teeth</i>                              |  | 1,8  | MI-1810-90  | MI-1815-90  | MI-1818-90  | MI-1822-90  |
|                                                                                            |                                                                                      | 2,2  | MI-2210-90  | MI-2215-90  | MI-2218-90  | MI-2222-90  |
| Faßzange, 2 x 2 Zähne<br><i>Grasping Forceps, 2 x 2 teeth</i>                              |  | 1,8  | MI-1810-91  | MI-1815-91  | MI-1818-91  | MI-1822-91  |
|                                                                                            |                                                                                      | 2,2  | MI-2210-91  | MI-2215-91  | MI-2218-91  | MI-2222-91  |
| Faßzange, gezahnt<br><i>Grasping Forceps, serrated</i>                                     |  | 1,8  | MI-1810-981 | MI-1815-981 | MI-1818-981 | MI-1822-981 |
|                                                                                            |                                                                                      | 2,2  | MI-2210-981 | MI-2215-981 | MI-2218-981 | MI-2222-981 |
| 3-armiger Greifer<br><i>Forceps with 3 nails</i>                                           |  | 1,8  | MI-1810-92  | MI-1815-92  | MI-1818-92  | MI-1822-92  |
|                                                                                            |                                                                                      | 2,2  | MI-2210-92  | MI-2215-92  | MI-2218-92  | MI-2222-92  |
| 4-armiger Greifer<br><i>Forceps with 4 nails</i>                                           |  | 2,2  | MI-2210-93  | MI-2215-93  | MI-2218-93  | MI-2222-93  |
|                                                                                            |                                                                                      | 2,2  | MI-2210-94  | MI-2215-94  | MI-2218-94  | MI-2222-94  |
| Polypen-Greifer<br><i>Polypotome tripped type</i>                                          |  | 2,2  | MI-2210-94  | MI-2215-94  | MI-2218-94  | MI-2222-94  |



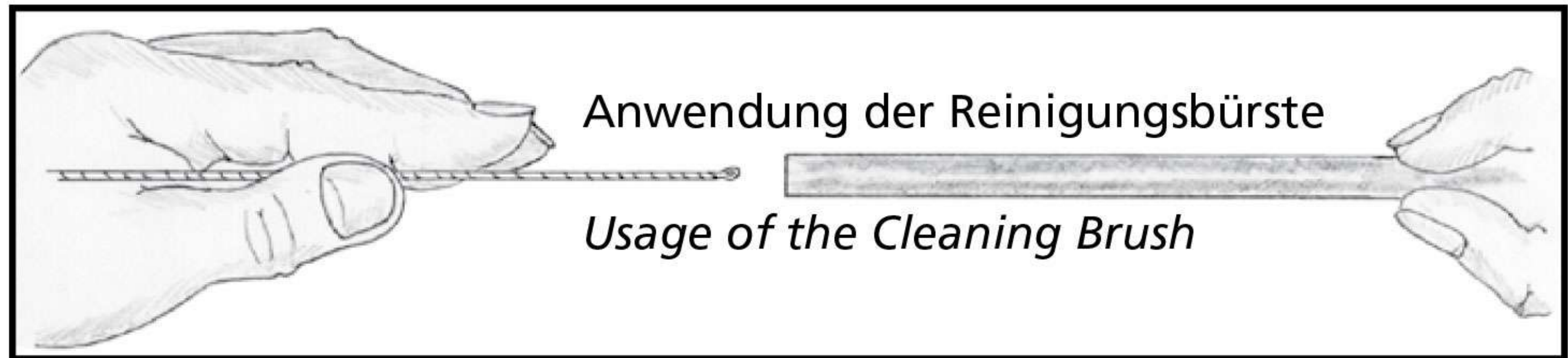
## Reinigung und Pflege Cleaning and care

### ACHTUNG:

Bitte unbedingt die Gebrauchsanweisungen, welche wir unseren Produkten beilegen, beachten.

### ATTENTION:

Please pay attention to our instructions for use which will be supplied together with our products.



### Anwendung der Reinigungsbürsten

Reinigen der Schäfte mit der Reinigungsbürste:

- ☒ Instrument zerlegen
- ☒ Reinigungsbürste mit dem metallenen Ende, an welchem sich die Öse befindet, in den Schaft einführen
- ☒ Die Öse der Bürste auf der anderen Seite des Schaftes fassen und durchziehen
- ☒ Vorgang ggf. wiederholen

**Die Bürste nicht in entgegengesetzte Richtung (mit den Borsten voran) in den Schaft drücken!**

### Usage of the Cleaning Brush

Cleaning of the shaft with the cleaning brush:

- ☒ Detach the instrument
- ☒ Put the cleaning brush into the shaft (metal end with loop first!)
- ☒ Grasp the metal end with loop on the other side of the shaft and pull the entire cleaning brush through the shaft
- ☒ Repeat the procedure if necessary

**Do not push the head with the bristles through first!**



Reinigungsbürste  
Cleaning Brush

Ø 5 mm x 40 cm  
Ø 10 mm x 40 cm

MI-540-01  
MI-140-01



Reinigungsaufsatz  
Cleaning adapter

MI-300-000



Wasserstrahl-  
Reinigungspistole  
komplett mit  
9 Aufsätzen

Water Jet Cleaning Pistol  
complete with 9 tips

MI-990-00





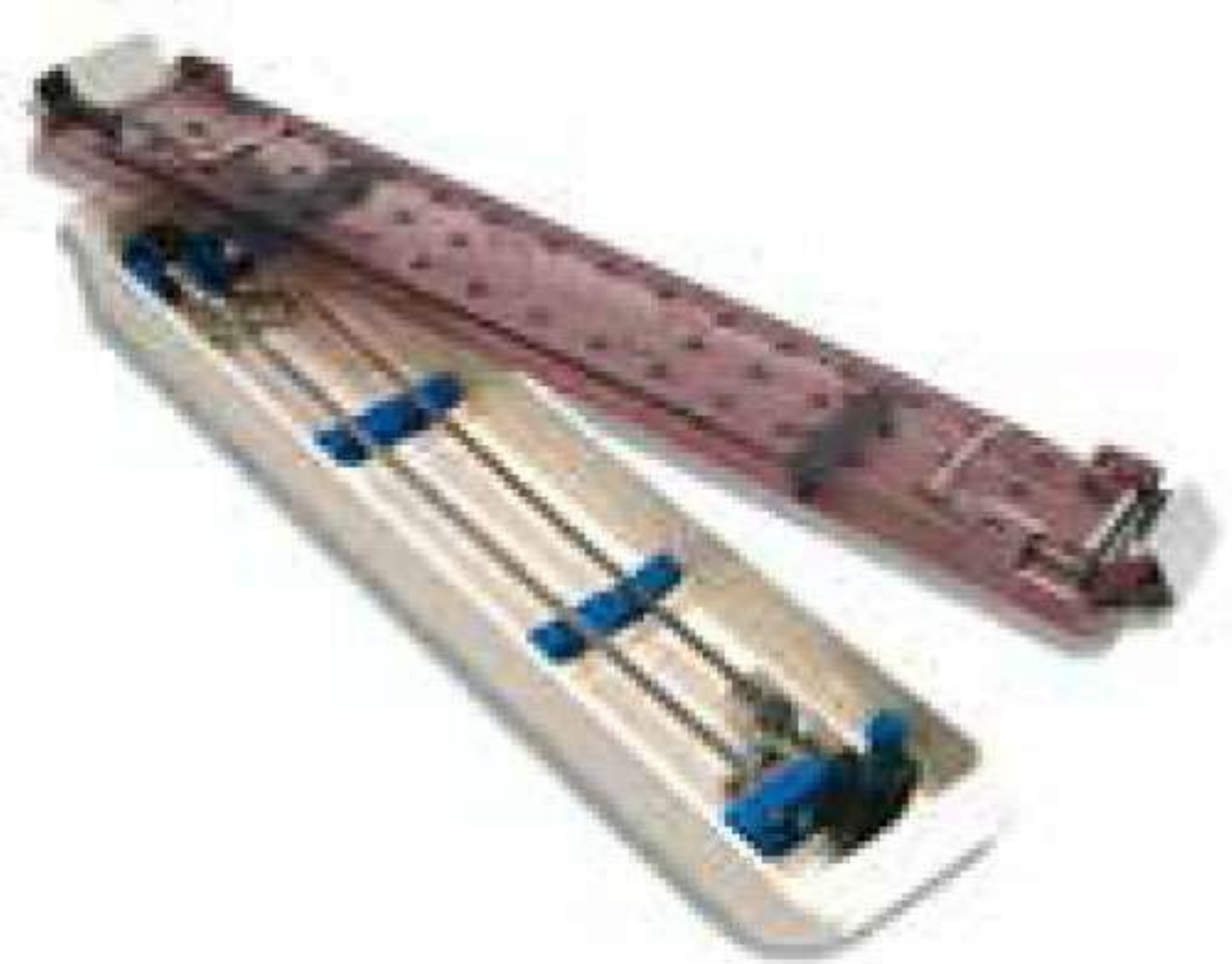


**Behälter für Optiken und Instrumente**

zur Sterilisation und Aufbewahrung

**Cases for scopes and instruments**

for sterilization and storage



**Behälter für Endoskope (Kunststoff)** passend für 2 Endoskope Ø 1 - 10 mm

*Tray for endoscopes (plastic) hold 2 endoscopes Ø 1 - 10 mm*

Maße / size

39,4 x 7 x 3,5 cm

MI -99002

45,7 x 7 x 3,5 cm

MI -99003



**Behälter für Endoskope und Lichtleitkabel (Kunststoff)**

passend für bis zu 3 Endoskope Ø 2,7 - 10 mm und 1 Lichtleitkabel

*Tray for endoscopes and light cable (plastic) holds up to 3 endoscopes Ø 2,7 - 10 mm and 1 light cable*

Maße / size

46,5 x 21,2 x 5,1 cm

MI -99010



**Siebkorb für Endoskope und Lichtleitkabel (Edelstahl)**

passend für 1 Endoskop und 1 Lichtleitkabel

*Basket for endoscope and light cable (stainless steel) holds 1 scope and 1 light cable*

Maße / size

48 x 15 x 8 cm

MI -99020

**Behälter für laparoskopische Instrumente**

*Laparoscopic instruments holding kit*



**System komplett**

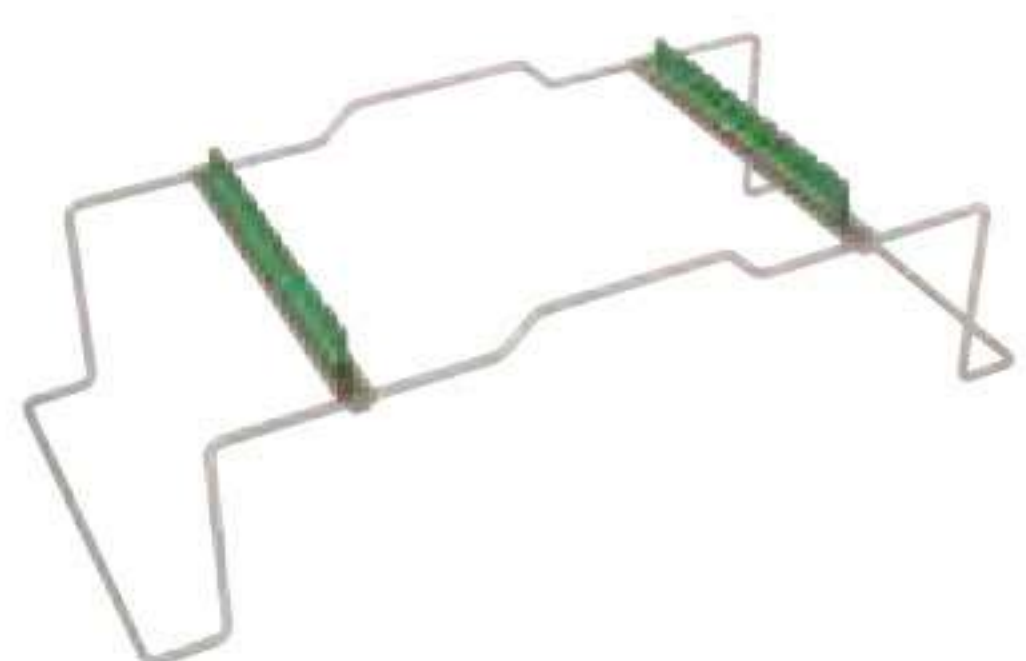
**Set complete**

bestehend aus / consisting of:

MI -98010

Container / Container  
60 x 30 x 21 cm

MI -70110



Rahmen mit Instrumentenhalterung Ø 5 und 10 mm  
*Frame with instrument holders Ø 5 und 10 mm*

MI -79540



Siebkorb / Basket  
54 x 24 x 7 cm

MI -75220

Silikonmatte / Silicone mat

MI -79527



## **CONTACT US**

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Estate Sialkot Pakistan

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