

**TONTARRA** Medizintechnik GmbH  
Surgical Instruments in Demand

**Laparoscopy**

## Über uns | *About us*



Chirurgische Instrumente ‚Made by TONTARRA‘ stehen seit mehr als 40 Jahren für höchste Qualität und Präzision. Dieser Erfolg und den weltweit guten Ruf, den wir uns durch den hohen Standard unserer Produkte erworben haben, basieren auf Innovationskraft, Leistungsbereitschaft und dem kompromisslosen Bekenntnis zu unserer Tradition.

Die Anerkennung durch unsere Kunden und Partner im In- und Ausland waren und sind uns stets ein Ansporn neben dem Bewährten auch die Herausforderung für neue Problemlösungen zu suchen und sich ihnen erfolgreich zu stellen.

Voraussetzungen für die marktrechte Umsetzung von der ursprünglichen Idee zum medizintechnischen Präzisionsinstrumentarium sind unsere modernste Produktionsstätte, die Kreativität und das Engagement unserer Mitarbeiter sowie ein Produktionsstandort, der seit mehr als einem Jahrhundert synonym für innovative und patientenorientierte Medizintechnik steht.

• • •

For more than 40 years TONTARRA has been recognized as a leader in quality and precision manufacturing of surgical instruments by continually implementing the latest advances in technology and production.

This success and the international recognition of the surgical skillfulness and accomplishment of TONTARRA Medizintechnik GmbH are based on our proven commitment to medical innovation, mastery in manufacturing and not least a strong focus on our continuing tradition of excellence.

The confidence in our medical programs and surgical lines as expressed for more than 40 years by our international customers and partners are a driving force to face and meet new challenges in surgical instrumentation.

Indispensable ‘tools’ for maturing new ideas into surgical instruments of highest precision include our state-of-the-art manufacturing facility and production processes and especially the ingenuity and strong commitment of our entire team.





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Technische Änderungen vorbehalten.  
We reserve the right to technical modifications.  
Nos reservamos el derecho de modificaciones técnicas.  
Ci riserviamo il diritto di modifiche tecniche.

# Enddoor

## 3-part designed laparoscopy instrument system

### Endoor general information

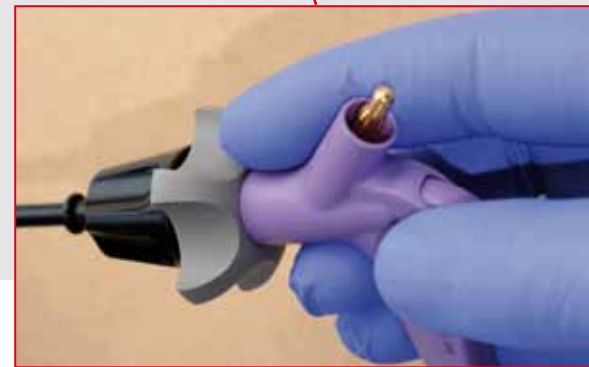
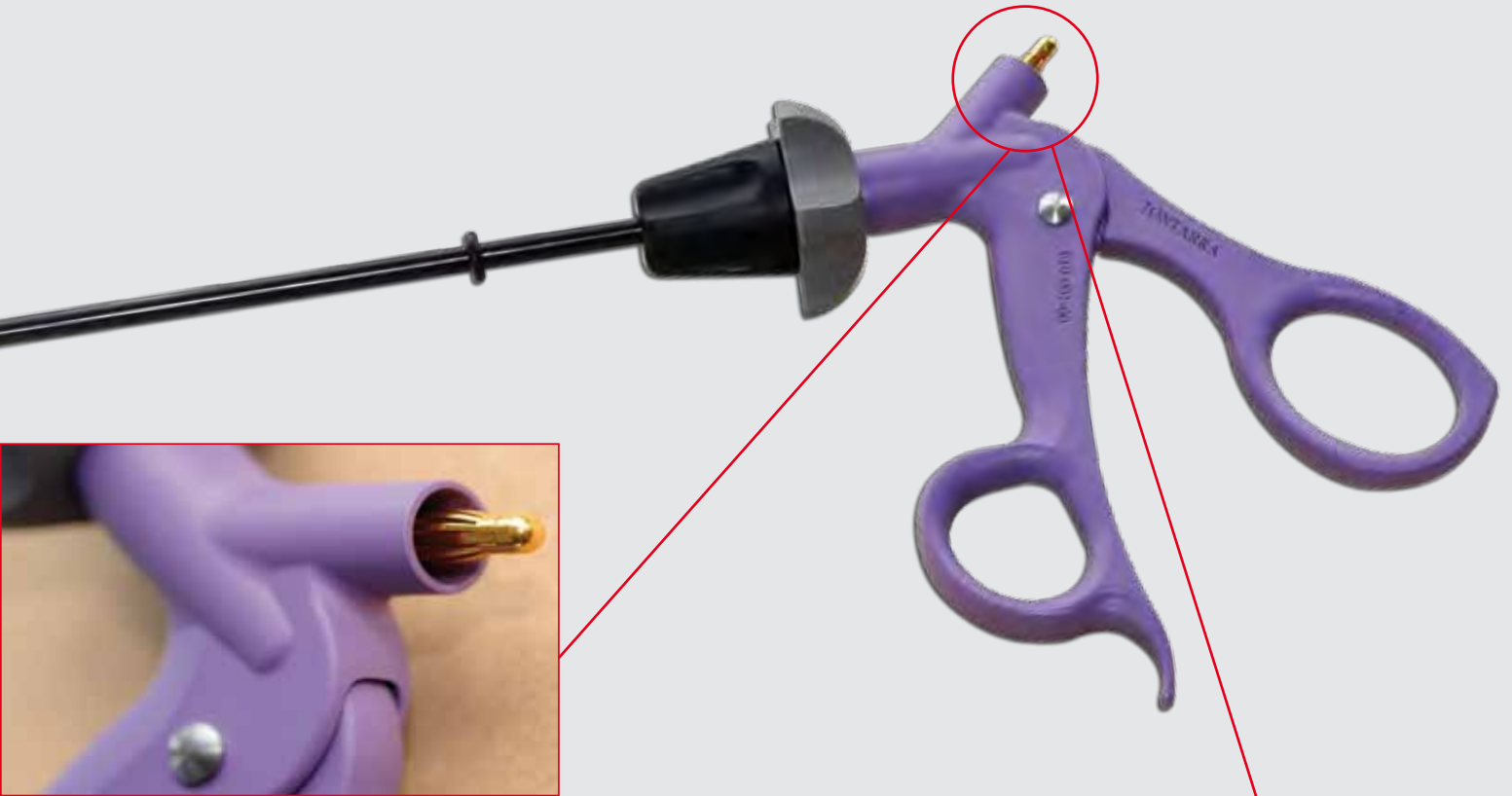


#### Technical Specifications:

- made of high-quality fiber-glass reinforced plastics
- the system is a monopolare three-part 360° rotatable demountable instrument
- easy and intuitive assembly and disassembly
- unique and mechanically safe connection system connection insert-sheath; bayonet connection shaft-handle; by extra drafted thread
- free from backlash mechanics for one-to-one tactile feedback
- the integrated ratchet can be easily activated or deactivated by rotating the selector
- ON/OFF ratchet
- shielded HF-connector
- accurate shaft coating with optimal insulation and superb sliding characteristics
- smooth-running ratchet design with elliptical tooth shape

#### Manufacturing:

- manufactured according to Tontarra-defined precision engineering standards and measurement
- the three-part design allows an easy maintenance and cleaning
- the instrument is designed for continuously variable rotation allowing highly precise manipulation
- special purple color design for easy locating
- fully autoclavable
- exclusively made in Germany



### **Ergonomics:**

- improved ergonomic design, fits to all hand sizes
- ergonomic ring design for better grip and contact
- adjusting wheel specially designed for ergonomic positioning of jaw
- various ergonomic finger positions possible providing stress free surgery



**Endoor** laparoscopy instrument system

| Art.Nr. | Description | Size | Spez. |
|---------|-------------|------|-------|
|---------|-------------|------|-------|

|            |                                |  |  |
|------------|--------------------------------|--|--|
| 610-001-00 | Endoor handle; without ratchet |  |  |
|------------|--------------------------------|--|--|



|            |   |  |  |
|------------|---|--|--|
| 610-005-00 | Endoor handle; with ratchet<br>ratchet can be optionally activated or deactivated |  |  |
|------------|---|--|--|



|            |   |  |  |
|------------|---|--|--|
| 610-060-00 | Endoor rinsing adapter for handle; with cup nut;<br>with Luer Lock connection |  |  |
|------------|---|--|--|



rinsing adapter connected at the handle

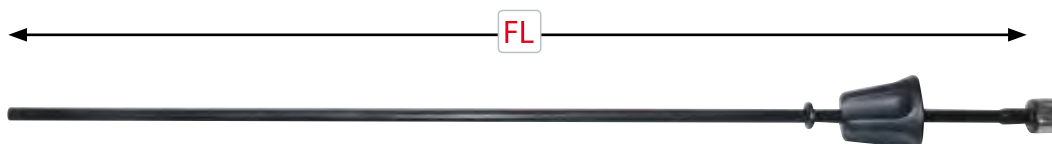
monopolar cables see page 41



## Endoor laparoscopy instrument system

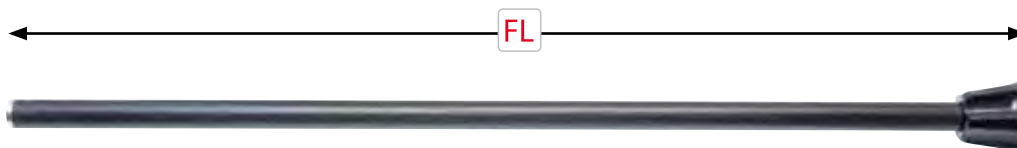
| Art.Nr.    | Description                         | Size                | Spez. |
|------------|-------------------------------------|---------------------|-------|
| 610-010-53 | Endoor shaft insulated with cup nut | Ø 5,0 mm; FL 330 mm |       |

|            |                                     |                     |  |
|------------|-------------------------------------|---------------------|--|
| 610-010-54 | Endoor shaft insulated with cup nut | Ø 5,0 mm; FL 420 mm |  |
|------------|-------------------------------------|---------------------|--|



|            |                                     |                      |  |
|------------|-------------------------------------|----------------------|--|
| 610-020-93 | Endoor shaft insulated with cup nut | Ø 10,0 mm; FL 330 mm |  |
|------------|-------------------------------------|----------------------|--|

|            |                                     |                      |  |
|------------|-------------------------------------|----------------------|--|
| 610-020-94 | Endoor shaft insulated with cup nut | Ø 10,0 mm; FL 420 mm |  |
|------------|-------------------------------------|----------------------|--|



|            |  |  |  |
|------------|--|--|--|
| 610-050-00 | Endoor rinsing adapter for shaft;<br>with Luer Lock connection |  |  |
|------------|--|--|--|











rinsing adapter connected at the shaft







Ø 3 mm Endoor laparoscopy instrument system see page 66



## Endoor laparoscopy instrument inserts Ø 5 mm







| Art.Nr.    | Description   | Size                | Spez.   |
|------------|---|---------------------|---|
| 610-100-53 | <b>METZENBAUM</b><br>standard scissors curved; double action jaw; serrated<br>→ shaft 610-010-53; handle 610-001-00     | Ø 5,0 mm; FL 330 mm |    |
| 610-110-53 | <b>METZENBAUM</b><br>scissors curved; double action jaw; serrated; blade 18 mm<br>→ shaft 610-010-53; handle 610-001-00 | Ø 5,0 mm; FL 330 mm |    |
| 610-110-54 | <b>METZENBAUM</b><br>scissors curved; double action jaw; serrated; blade 18 mm<br>→ shaft 610-010-54; handle 610-001-00 | Ø 5,0 mm; FL 420 mm |    |
| 610-111-53 | <b>METZENBAUM modified;</b><br>scissors curved; double action jaw; blade 18 mm<br>→ shaft 610-010-53; handle 610-001-00 | Ø 5,0 mm; FL 330 mm |  |
| 610-112-53 | <b>METZENBAUM</b><br>scissors straight; double action jaw; serrated<br>→ shaft 610-010-53; handle 610-001-00            | Ø 5,0 mm; FL 330 mm |  |
| 610-150-53 | <b>hook scissors; single action jaw</b><br>→ shaft 610-010-53; handle 610-001-00  | Ø 5,0 mm; FL 330 mm |  |
| 610-150-54 | <b>hook scissors; single action jaw</b><br>→ shaft 610-010-54; handle 610-001-00  | Ø 5,0 mm; FL 420 mm |  |
| 610-155-53 | <b>peritoneal scissors straight; single action jaw</b><br>→ shaft 610-010-53; handle 610-001-00                         | Ø 5,0 mm; FL 330 mm |  |

**Endoor** laparoscopy instrument inserts Ø 5 mm;  
grasping forceps; **double action**


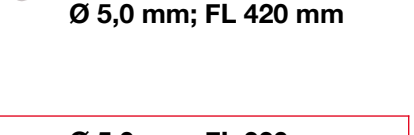





| Art.Nr.         | Description  | Size                | Spez.   |
|-----------------|--|---------------------|---|
| 610-200-53<br>→ | <b>non-traumatic grasping forceps; pointed; double action jaw</b><br>shaft 610-010-53                  | Ø 5,0 mm; FL 330 mm |    |
| 610-200-54<br>→ | <b>non-traumatic grasping forceps; pointed; double action jaw</b><br>shaft 610-010-54                  | Ø 5,0 mm; FL 420 mm |   |
| 610-202-53<br>→ | <b>MARYLAND</b><br><b>dissecting and grasping forceps; double action jaw</b><br>shaft 610-010-53       | Ø 5,0 mm; FL 330 mm |    |
| 610-202-54<br>→ | <b>MARYLAND</b><br><b>dissecting and grasping forceps; double action jaw</b><br>shaft 610-010-54       | Ø 5,0 mm; FL 420 mm |   |
| 610-204-53<br>→ | <b>KELLY</b><br><b>dissecting and grasping forceps; tapered; double action jaw</b><br>shaft 610-010-53 | Ø 5,0 mm; FL 330 mm |  |
| 610-204-54<br>→ | <b>KELLY</b><br><b>dissection and grasping forceps; tapered; double action jaw</b><br>shaft 610-010-54 | Ø 5,0 mm; FL 420 mm |   |
| 610-205-53<br>→ | <b>MIXTER</b><br><b>grasping forceps; double action jaw; 90° angled</b><br>shaft 610-010-53            | Ø 5,0 mm; FL 330 mm |  |
| 610-206-53<br>→ | <b>MC KENAN</b><br><b>grasping forceps; double action jaw</b><br>shaft 610-010-53                      | Ø 5,0 mm; FL 330 mm |  |
| 610-207-53<br>→ | <b>ALLIS</b><br><b>grasping forceps; double action jaw; blade 38 mm</b><br>shaft 610-010-53            | Ø 5,0 mm; FL 330 mm |   |



**Endoor** laparoscopy instrument inserts Ø 5 mm;  
grasping forceps; **double action**



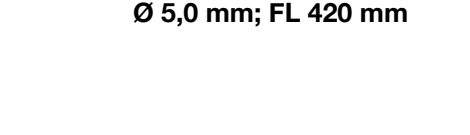


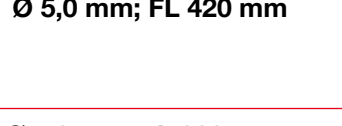


| Art.Nr.    | Description   | Size                | Spez.   |
|------------|---|---------------------|---|
| 610-210-53 | <b>dissecting and grasping forceps; fenestrated; double action jaw; blade 16 mm</b><br>→ shaft 610-010-53 | Ø 5,0 mm; FL 330 mm |    |
| 610-210-54 | <b>dissecting and grasping forceps; fenestrated; double action jaw; blade 16mm</b><br>→ shaft 610-010-54  | Ø 5,0 mm; FL 420 mm |   |
| 610-212-53 | <b>ENDO CLINCH grasping forceps; fenestrated; straight; double action jaw</b><br>→ shaft 610-010-53       | Ø 5,0 mm; FL 330 mm |    |
| 610-212-54 | <b>ENDO CLINCH grasping forceps; fenestrated; straight; double action jaw</b><br>→ shaft 610-010-54       | Ø 5,0 mm; FL 420 mm |   |
| 610-213-53 | <b>DOLPHIN dissecting and grasping forceps; double action jaw</b><br>→ shaft 610-010-53                   | Ø 5,0 mm; FL 330 mm |  |
| 610-214-53 | <b>grasping forceps with spoon; blunt; double action jaw</b><br>→ shaft 610-010-53                        | Ø 5,0 mm; FL 330 mm |  |
| 610-215-53 | <b>grasping forceps with spoon; pointed; double action jaw</b><br>→ shaft 610-010-53                      | Ø 5,0 mm; FL 330 mm |  |
| 610-300-53 | <b>BABCOCK non-traumatic grasping forceps; double action jaw</b><br>→ shaft 610-010-53                    | Ø 5,0 mm; FL 330 mm |  |
| 610-300-54 | <b>BABCOCK non-traumatic grasping forceps; double action jaw</b><br>→ shaft 610-010-54                    | Ø 5,0 mm; FL 420 mm |   |

**Endoor** laparoscopy instrument inserts Ø 5 mm;  
grasping forceps; **double action**

| Art.Nr.    | Description   | Size                | Spez.   |
|------------|---|---------------------|---|
| 610-216-53 | grasping forceps; wave style; double action jaw;<br>blade 24 mm<br>→ shaft 610-010-53                 | Ø 5,0 mm; FL 330 mm |    |
| 610-216-54 | grasping forceps; wave style; double action jaw;<br>blade 24 mm<br>→ shaft 610-010-54                 | Ø 5,0 mm; FL 420 mm |    |
| 610-218-53 | <b>JOHAN</b><br>grasping forceps; fenestrated; double action jaw<br>blade 25 mm<br>→ shaft 610-010-53 | Ø 5,0 mm; FL 330 mm |    |
| 610-220-53 | <b>DE BAKEY</b><br>grasping forceps; double action jaw;<br>blade 40 mm<br>→ shaft 610-010-53          | Ø 5,0 mm; FL 330 mm |  |
| 610-224-53 | <b>ALLIGATOR</b><br>grasping forceps; double action jaw<br>→ shaft 610-010-53                         | Ø 5,0 mm; FL 330 mm |  |
| 610-226-53 | <b>COBRA</b><br>grasping forceps; double action jaw<br>→ shaft 610-010-53                             | Ø 5,0 mm; FL 330 mm |  |
| 610-228-53 | grasping forceps; double action jaw<br>→ shaft 610-010-53   | Ø 5,0 mm; FL 330 mm |  |



**Endoor** laparoscopy instrument inserts Ø 5 mm;  
grasping forceps; **single action**




| Art.Nr.    | Description  | Size                | Spez.   |
|------------|--|---------------------|---|
| 610-249-53 | <b>JOHAN</b><br>grasping forceps; up curved; double fenestrated;<br>single action jaw; blade 23 mm<br>→ shaft 610-010-53 | Ø 5,0 mm; FL 330 mm |    |
| 610-250-53 | <b>JOHAN</b><br>grasping forceps; fenestrated; single action jaw;<br>blade 25 mm<br>→ shaft 610-010-53                   | Ø 5,0 mm; FL 330 mm |    |
| 610-250-54 | <b>JOHAN</b><br>grasping forceps; fenestrated; single action jaw;<br>blade 25 mm<br>→ shaft 610-010-54                   | Ø 5,0 mm; FL 420 mm |   |
| 610-251-53 | <b>JOHAN</b><br>grasping forceps; fenestrated; single action jaw;<br>blade 38 mm<br>→ shaft 610-010-53                   | Ø 5,0 mm; FL 330 mm |   |
| 610-252-53 | <b>MAHNES</b><br>grasping forceps; fine teeth; single action jaw<br>→ shaft 610-010-53                                   | Ø 5,0 mm; FL 330 mm |  |
| 610-252-54 | <b>MAHNES</b><br>grasping forceps; fine teeth; single action jaw<br>→ shaft 610-010-54                                   | Ø 5,0 mm; FL 420 mm |  |
| 610-253-53 | grasping forceps; 1 x 2 teeth; single action jaw<br>→ shaft 610-010-53   | Ø 5,0 mm; FL 330 mm |  |
| 610-254-53 | grasping forceps; wave style; single action jaw;<br>blade 22 mm<br>→ shaft 610-010-53                                    | Ø 5,0 mm; FL 330 mm |  |

**Endoor** laparoscopy instrument inserts Ø 5 mm;  
grasping forceps; **single action**

| Art.Nr.    | Description   | Size                | Spez.   |
|------------|---|---------------------|---|
| 610-256-53 | <b>claw forceps; single action jaw;<br/>blade 22 mm</b><br>→ shaft 610-010-53               | Ø 5,0 mm; FL 330 mm |    |
| 610-258-53 | <b>dissector; strong curved; delicate serrated; single action jaw</b><br>→ shaft 610-010-53 | Ø 5,0 mm; FL 330 mm |    |
| 610-260-53 | <b>dissector; straight; single action jaw</b><br>→ shaft 610-010-53                         | Ø 5,0 mm; FL 330 mm |   |
| 610-350-53 | <b>biopsy forceps; with pin; single action jaw</b><br>→ shaft 610-010-53                    | Ø 5,0 mm; FL 330 mm |  |
| 610-350-54 | <b>biopsy forceps; with pin; single action jaw</b><br>→ shaft 610-010-54                    | Ø 5,0 mm; FL 420 mm |   |
| 610-352-53 | <b>biopsy punch; single action jaw</b><br>→ shaft 610-010-53                                | Ø 5,0 mm; FL 330 mm |  |
| 610-352-54 | <b>biopsy punch; single action jaw</b><br>→ shaft 610-010-54                                | Ø 5,0 mm; FL 420 mm |   |



**Endoor laparoscopy instrument inserts Ø 10 mm;  
single action**

| Art.Nr.    | Description   | Size                 | Spez.   |
|------------|---|----------------------|---|
| 610-400-93 | <b>claw forceps; single action jaw</b><br>→ shaft 610-020-93  | Ø 10,0 mm; FL 330 mm |    |
| 610-400-94 | <b>claw forceps; single action jaw</b><br>→ shaft 610-020-94  | Ø 10,0 mm; FL 420 mm |   |
| 610-406-93 | <b>spoon forceps; single action jaw</b><br>→ shaft 610-020-93 | Ø 10,0 mm; FL 330 mm |    |
| 610-406-94 | <b>spoon forceps; single action jaw</b><br>→ shaft 610-020-94 | Ø 10,0 mm; FL 420 mm |   |
| 610-410-93 | <b>OP scissors; single action jaw</b><br>→ shaft 610-020-93   | Ø 10,0 mm; FL 330 mm |  |



**Endoor** laparoscopy instrument inserts Ø 10 mm;  
grasping forceps; **double action**

| Art.Nr.    | Description  | Size                 | Spez. |
|------------|--|----------------------|-------|
| 610-425-93 | <b>MARYLAND</b><br>dissecting and grasping forceps; double action jaw<br>→ shaft 610-020-93                            | Ø 10,0 mm; FL 330 mm |       |
| 610-427-93 | <b>OVERHOLT</b><br>dissecting and grasping forceps; double action jaw<br>→ shaft 610-020-93                            | Ø 10,0 mm; FL 330 mm |       |
| 610-429-93 | <b>MIXTER</b><br>dissecting and grasping forceps; double action jaw; 90°<br>→ shaft 610-020-93                         | Ø 10,0 mm; FL 330 mm |       |
| 610-430-93 | <b>L-shape grasper;</b><br>dissecting and grasping forceps; cross serrated;<br>double action jaw<br>→ shaft 610-020-93 | Ø 10,0 mm; FL 330 mm |       |
| 610-435-93 | <b>BABCOCK</b><br>dissection and grasping forceps; double action jaw<br>→ shaft 610-020-93                             | Ø 10,0 mm; FL 330 mm |       |
| 610-439-93 | dissecting and grasping forceps; double action jaw<br>→ shaft 610-020-93   | Ø 10,0 mm; FL 330 mm |       |











**Laparoscopic instruments with wave ring handle;  
without ratchet**









with cleaning channel; with Luer Lock connector

| Art.Nr.    | Description   | Size                | Spez.   |
|------------|---|---------------------|---|
| 612-105-53 | grasping forceps; curved;<br>blade 22 mm                                  | Ø 5,0 mm; FL 330 mm |    |
| 612-110-53 | grasping forceps; non-traumatic   | Ø 5,0 mm; FL 330 mm |  |
| 612-115-53 | <b>MAHNES</b><br>grasping forceps   | Ø 5,0 mm; FL 330 mm |  |
| 612-120-53 | <b>DORSEY</b><br>grasping forceps; fenestrated;<br>blade 16 mm            | Ø 5,0 mm; FL 330 mm |  |
| 612-125-53 | <b>DORSEY modified</b><br>grasping forceps; fenestrated;<br>blade 12 mm   | Ø 5,0 mm; FL 330 mm |  |
| 612-130-53 | <b>DORSEY intestinal</b><br>grasping forceps; fenestrated;<br>blade 30 mm | Ø 5,0 mm; FL 330 mm |  |

**Laparoscopic instruments with wave ring handle;  
with ratchet**



with cleaning channel; with Luer Lock connector







| Art.Nr.    | Description   | Size                | Spez.   |
|------------|---|---------------------|---|
| 612-205-53 | grasping forceps; curved;<br>blade 22 mm                                  | Ø 5,0 mm; FL 330 mm |    |
| 612-210-53 | grasping forceps; non-traumatic   | Ø 5,0 mm; FL 330 mm |  |
| 612-215-53 | <b>MAHNES</b><br>grasping forceps   | Ø 5,0 mm; FL 330 mm |  |
| 612-220-53 | <b>DORSEY</b><br>grasping forceps; fenestrated;<br>blade 16 mm            | Ø 5,0 mm; FL 330 mm |  |
| 612-225-53 | <b>DORSEY modified</b><br>grasping forceps; fenestrated;<br>blade 12 mm   | Ø 5,0 mm; FL 330 mm |  |
| 612-230-53 | <b>DORSEY intestinal</b><br>grasping forceps; fenestrated;<br>blade 30 mm | Ø 5,0 mm; FL 330 mm |  |



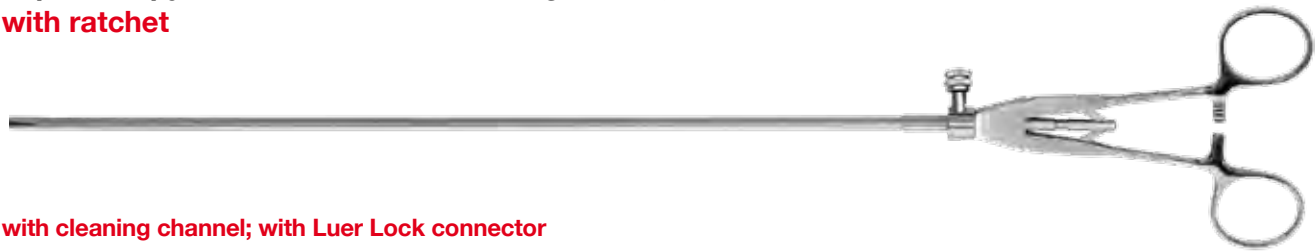
**Laparoscopy instruments with axial ring handle;  
without ratchet**

with cleaning channel; with Luer Lock connector









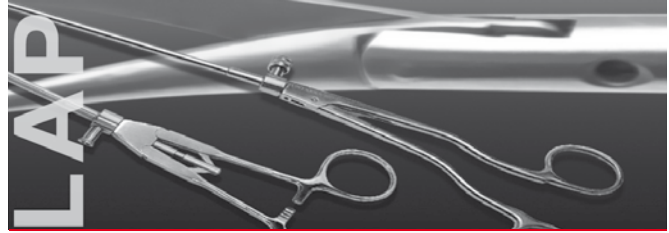
| Art.Nr.    | Description   | Size                | Spez.   |
|------------|---|---------------------|---|
| 612-305-53 | grasping forceps; curved;<br>blade 22 mm                                  | Ø 5,0 mm; FL 330 mm |    |
| 612-310-53 | grasping forceps; non-traumatic   | Ø 5,0 mm; FL 330 mm |  |
| 612-315-53 | <b>MAHNES</b><br>grasping forceps   | Ø 5,0 mm; FL 330 mm |  |
| 612-320-53 | <b>DORSEY</b><br>grasping forceps; fenestrated;<br>blade 16 mm            | Ø 5,0 mm; FL 330 mm |  |
| 612-325-53 | <b>DORSEY modified</b><br>grasping forceps; fenestrated;<br>blade 12 mm   | Ø 5,0 mm; FL 330 mm |  |
| 612-330-53 | <b>DORSEY intestinal</b><br>grasping forceps; fenestrated;<br>blade 30 mm | Ø 5,0 mm; FL 330 mm |  |

**Laparoscopy instruments with axial ring handle;  
with ratchet**



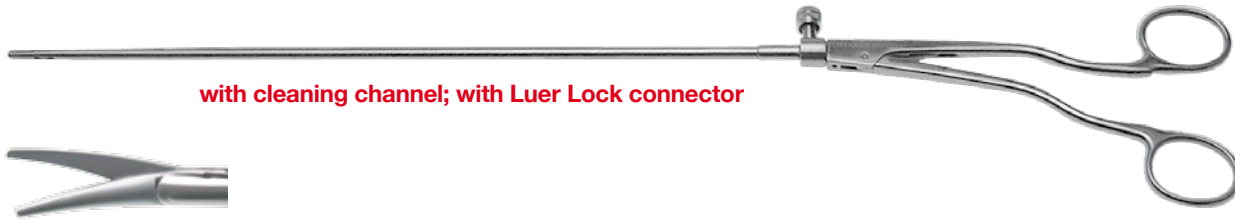
with cleaning channel; with Luer Lock connector

| Art.Nr.    | Description   | Size                | Spez.   |
|------------|---|---------------------|---|
| 612-405-53 | grasping forceps; curved;<br>blade 22 mm                                  | Ø 5,0 mm; FL 330 mm |    |
| 612-410-53 | grasping forceps; non-traumatic   | Ø 5,0 mm; FL 330 mm |  |
| 612-415-53 | <b>MAHNES</b><br>grasping forceps   | Ø 5,0 mm; FL 330 mm |  |
| 612-420-53 | <b>Dorsey</b><br>grasping forceps; fenestrated;<br>blade 16 mm            | Ø 5,0 mm; FL 330 mm |  |
| 612-425-53 | <b>Dorsey modified</b><br>grasping forceps; fenestrated;<br>blade 12 mm   | Ø 5,0 mm; FL 330 mm |  |
| 612-430-53 | <b>Dorsey intestinal</b><br>grasping forceps; fenestrated;<br>blade 30 mm | Ø 5,0 mm; FL 330 mm |  |

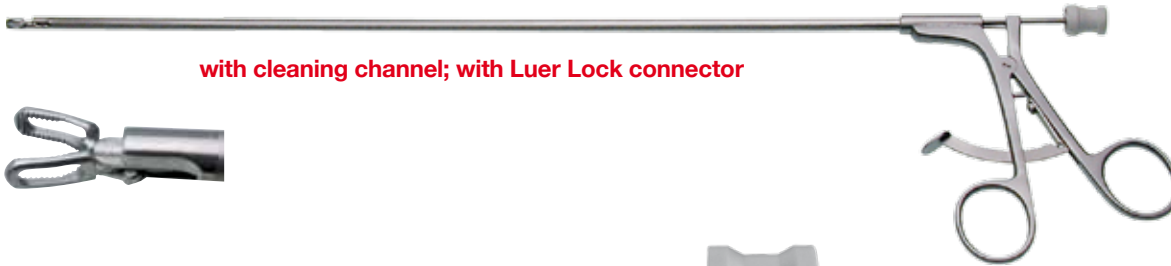


## Laparoscopy instruments

| Art.Nr.    | Description  | Size                | Spez. |
|------------|--|---------------------|-------|
| 612-135-53 | <b>METZENBAUM modified;</b><br>scissors curved; double action jaw; blade 18 mm | Ø 5,0 mm; FL 330 mm |       |



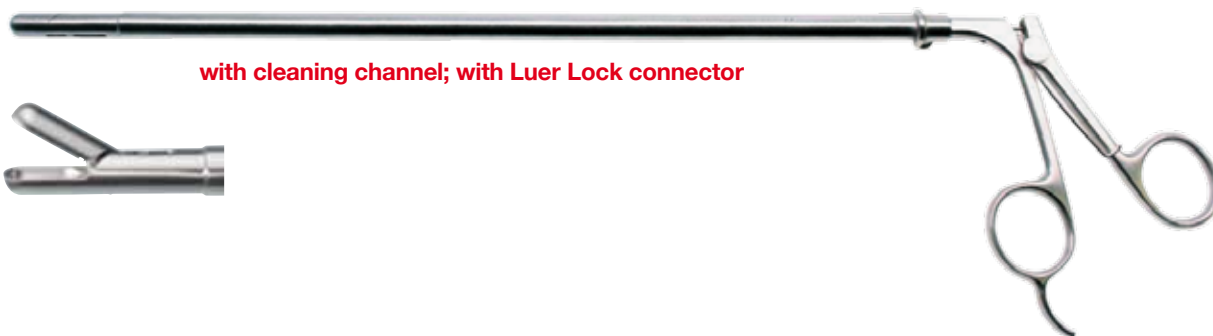
|            |   |                     |  |
|------------|---|---------------------|--|
| 612-990-53 | <b>cholangiography fixation forceps</b> | Ø 5,0 mm; FL 330 mm |  |
|------------|---|---------------------|--|



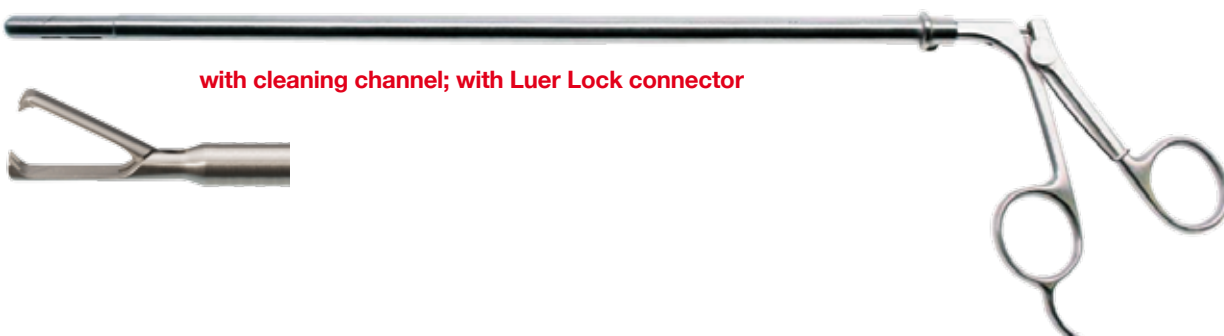
|            |   |             |  |
|------------|---|-------------|--|
| 499-191-00 | <b>sealing cap for instrument channel</b> | 10 pcs./box |  |
|------------|---|-------------|--|




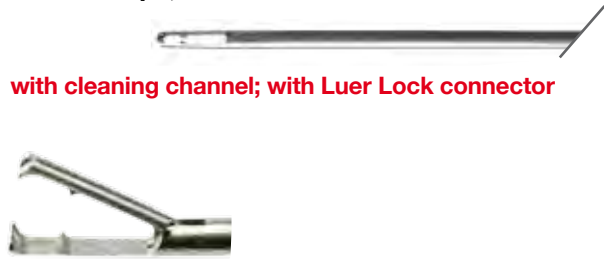
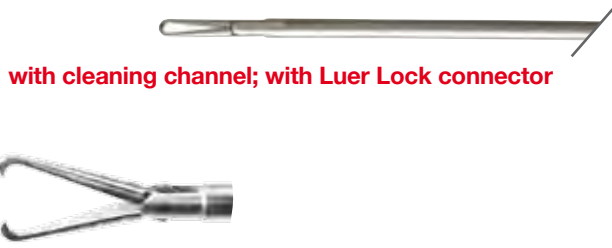
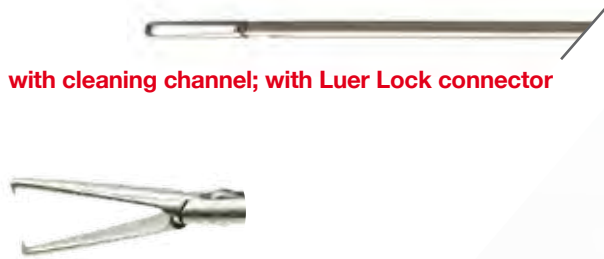
|            |  |                      |  |
|------------|--|----------------------|--|
| 612-540-93 | <b>spoon forceps with spring handle; single action jaw</b> | Ø 10,0 mm; FL 330 mm |  |
|------------|--|----------------------|--|

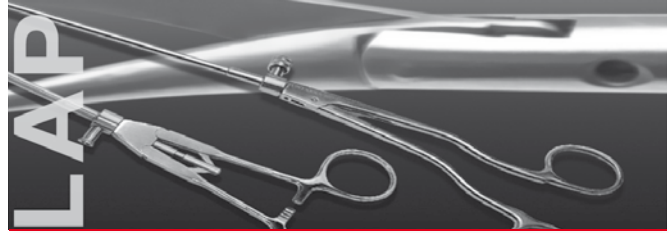


|            |   |                      |  |
|------------|---|----------------------|--|
| 612-550-93 | <b>claw forceps with spring handle; single action jaw</b> | Ø 10,0 mm; FL 330 mm |  |
|------------|---|----------------------|--|



## Laparoscopy instruments

| Art.Nr.            | Description   | Size                 | Spez.                |
|--------------------|---|----------------------|----------------------|
| <b>Myoma Drill</b> |   |                      |                      |
|                    |   |                      |                      |
| 587-210-33         |   | Ø 10,0 mm; FL 330 mm |                      |
| 587-210-42         |   | Ø 10,0 mm; FL 420 mm |                      |
| 587-205-32         |   | Ø 5,0 mm; FL 330 mm  |                      |
| 587-205-42         |   | Ø 5,0 mm; FL 420 mm  |                      |
| 587-220-10         | <b>claw forceps; non-detachable</b><br><br><i>with cleaning channel; with Luer Lock connector</i>       |                      | Ø 10,0 mm; FL 420 mm |
| 587-225-10         | <b>tenaculum forceps; non-detachable</b><br><br><i>with cleaning channel; with Luer Lock connector</i> |                      | Ø 10,0 mm; FL 420 mm |
| 587-220-05         | <b>tenaculum forceps; non-detachable</b><br><br><i>with cleaning channel; with Luer Lock connector</i> |                      | Ø 5,0 mm; FL 420 mm  |

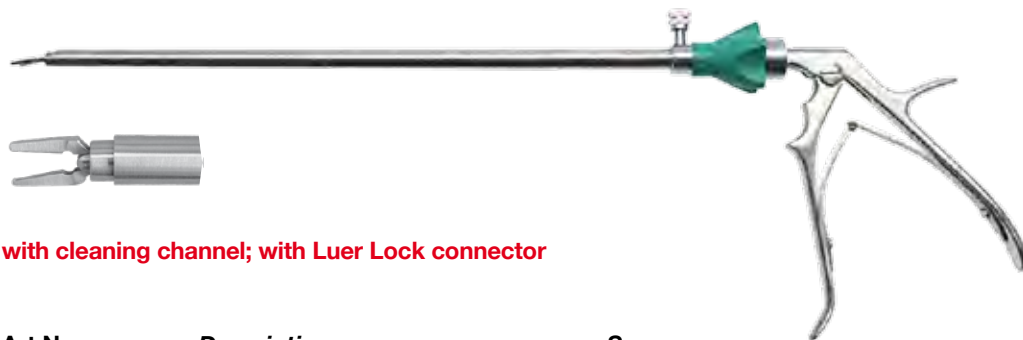


**Clip Appliers Ø 10 mm; ROTATABLE**



with cleaning channel; with Luer Lock connector

| Art.Nr.    | Description  | Spez.             | Size                 |
|------------|--------------|-------------------|----------------------|
| 612-920-01 | medium       | for Ethicon Clips | Ø 10,0 mm; FL 320 mm |
| 612-920-02 | medium-large | for Ethicon Clips | Ø 10,0 mm; FL 320 mm |
| 612-920-03 | large        | for Ethicon Clips | Ø 10,0 mm; FL 320 mm |



with cleaning channel; with Luer Lock connector

| Art.Nr.    | Description  | Spez.             | Size                 |
|------------|--------------|-------------------|----------------------|
| 612-930-00 | small        | for Ethicon Clips | Ø 10,0 mm; FL 320 mm |
| 612-930-01 | medium       | for Ethicon Clips | Ø 10,0 mm; FL 320 mm |
| 612-930-02 | medium-large | for Ethicon Clips | Ø 10,0 mm; FL 320 mm |
| 612-930-03 | large        | for Ethicon Clips | Ø 10,0 mm; FL 320 mm |
| 612-932-00 | small        | for Weck Clips    | Ø 10,0 mm; FL 320 mm |
| 612-932-01 | medium       | for Weck Clips    | Ø 10,0 mm; FL 320 mm |
| 612-932-02 | medium-large | for Weck Clips    | Ø 10,0 mm; FL 320 mm |
| 612-934-00 | small        | for SLS Clips     | Ø 10,0 mm; FL 320 mm |
| 612-934-01 | medium       | for SLS Clips     | Ø 10,0 mm; FL 320 mm |
| 612-934-02 | medium-large | for SLS Clips     | Ø 10,0 mm; FL 320 mm |
| 612-934-03 | large        | for SLS Clips     | Ø 10,0 mm; FL 320 mm |
| 612-936-00 | small        | for Horizon Clips | Ø 10,0 mm; FL 320 mm |
| 612-936-01 | medium       | for Horizon Clips | Ø 10,0 mm; FL 320 mm |
| 612-936-02 | medium-large | for Horizon Clips | Ø 10,0 mm; FL 320 mm |

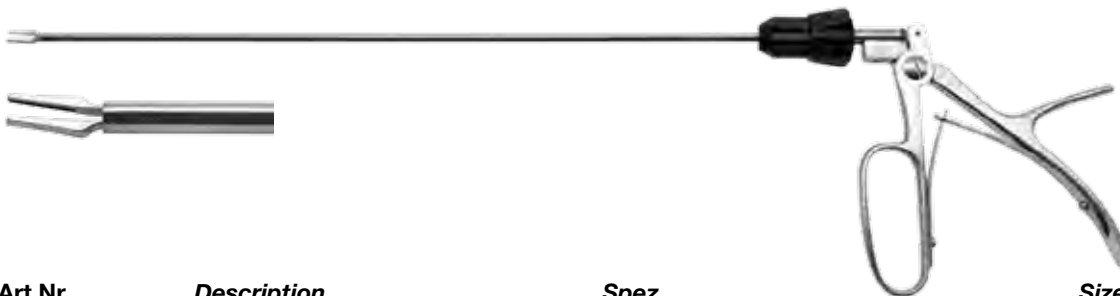


## Clip Applicators Ø 10 mm; **ROTATABLE; DETACHABLE**

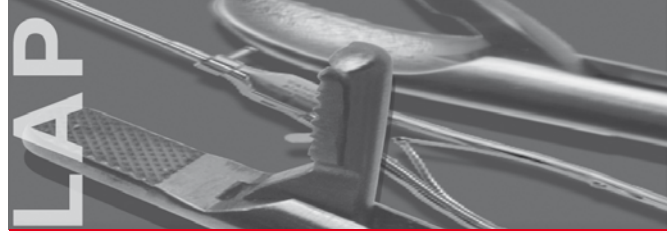


| Art.Nr.    | Description  | Spez.             | Size                 |
|------------|--------------|-------------------|----------------------|
| 612-910-00 | small        | for Ethicon Clips | Ø 10,0 mm; FL 320 mm |
| 612-910-01 | medium       | for Ethicon Clips | Ø 10,0 mm; FL 320 mm |
| 612-910-02 | medium-large | for Ethicon Clips | Ø 10,0 mm; FL 320 mm |
| 612-910-03 | large        | for Ethicon Clips | Ø 10,0 mm; FL 320 mm |
| 612-912-00 | small        | for Weck Clips    | Ø 10,0 mm; FL 320 mm |
| 612-912-01 | medium       | for Weck Clips    | Ø 10,0 mm; FL 320 mm |
| 612-912-02 | medium-large | for Weck Clips    | Ø 10,0 mm; FL 320 mm |
| 612-914-00 | small        | for SLS Clips     | Ø 10,0 mm; FL 320 mm |
| 612-914-01 | medium       | for SLS Clips     | Ø 10,0 mm; FL 320 mm |
| 612-914-02 | medium-large | for SLS Clips     | Ø 10,0 mm; FL 320 mm |
| 612-914-03 | large        | for SLS Clips     | Ø 10,0 mm; FL 320 mm |
| 612-916-00 | small        | for Horizon Clips | Ø 10,0 mm; FL 320 mm |
| 612-916-01 | medium       | for Horizon Clips | Ø 10,0 mm; FL 320 mm |
| 612-916-02 | medium-large | for Horizon Clips | Ø 10,0 mm; FL 320 mm |

## Clip Applicators Ø 5 mm; **ROTATABLE; DETACHABLE**







| Art.Nr.    | Description | Spez.             | Size                |
|------------|-------------|-------------------|---------------------|
| 612-940-00 | small       | for Ethicon Clips | Ø 5,0 mm; FL 320 mm |
| 612-940-01 | medium      | for Ethicon Clips | Ø 5,0 mm; FL 320 mm |
| 612-942-00 | small       | for Pilling Clips | Ø 5,0 mm; FL 320 mm |
| 612-942-01 | medium      | for Pilling Clips | Ø 5,0 mm; FL 320 mm |
| 612-944-00 | small       | for Weck Clips    | Ø 5,0 mm; FL 320 mm |
| 612-944-01 | medium      | for Weck Clips    | Ø 5,0 mm; FL 320 mm |
| 612-946-00 | small       | for Horizon Clips | Ø 5,0 mm; FL 320 mm |
| 612-946-01 | medium      | for Horizon Clips | Ø 5,0 mm; FL 320 mm |



**Needle holders with ergonomic shank handle; with ratchet**

with cleaning channel; with Luer Lock connector



| Art.Nr.    | Description                    | Size                | Spez.   |
|------------|--------------------------------|---------------------|---|
| 614-005-53 | TC needle holder; straight     | Ø 5,0 mm; FL 330 mm |    |
| 614-005-54 | TC needle holder; straight     | Ø 5,0 mm; FL 450 mm |   |
| 614-010-53 | TC needle holder; curved left  | Ø 5,0 mm; FL 330 mm |  |
| 614-010-54 | TC needle holder; curved left  | Ø 5,0 mm; FL 450 mm |   |
| 614-015-53 | TC needle holder; curved right | Ø 5,0 mm; FL 330 mm |  |
| 614-020-53 | Needle holder; convex/concave  | Ø 5,0 mm; FL 330 mm |  |

"TC" means "tungsten carbide"

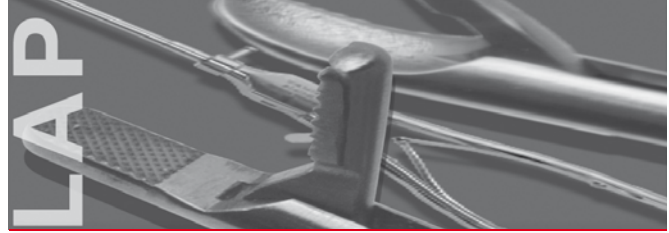
**Needle holders with axial ring handle;  
with ratchet**

with cleaning channel; with Luer Lock connector



| Art.Nr.    | Description                       | Size                | Spez.   |
|------------|-----------------------------------|---------------------|---|
| 614-405-53 | TC needle holder; straight        | Ø 5,0 mm; FL 330 mm |    |
| 614-405-54 | TC needle holder; straight        | Ø 5,0 mm; FL 450 mm |    |
| 614-410-53 | TC needle holder; curved left     | Ø 5,0 mm; FL 330 mm |  |
| 614-410-54 | TC needle holder; curved left     | Ø 5,0 mm; FL 450 mm |  |
| 614-415-53 | TC needle holder; curved right    | Ø 5,0 mm; FL 330 mm |  |
| 614-420-53 | needle holder; convex/concave     | Ø 5,0 mm; FL 330 mm |  |
| 614-425-53 | TC needle holder; straight; short | Ø 5,0 mm; FL 330 mm |  |

"TC" means "tungsten carbide"



**Needle holders with axial wave-ring handle; with ratchet**

with cleaning channel; with Luer Lock connector



| Art.Nr.    | Description                                   | Size                | Spez.   |
|------------|---|---------------------|---|
| 614-205-53 | TC needle holder; straight; long              | Ø 5,0 mm; FL 330 mm |    |
| 614-205-54 | TC needle holder; straight; long              | Ø 5,0 mm; FL 450 mm |    |
| 614-210-53 | TC needle holder; curved left                 | Ø 5,0 mm; FL 330 mm |   |
| 614-210-54 | TC needle holder; curved left                 | Ø 5,0 mm; FL 450 mm |  |
| 614-215-53 | TC needle holder; curved right                | Ø 5,0 mm; FL 330 mm |  |
| 614-220-53 | needle holder; convex/concave                 | Ø 5,0 mm; FL 330 mm |  |
| 614-225-53 | TC needle holder; straight; short             | Ø 5,0 mm; FL 330 mm |  |
| 614-230-53 | TC needle holder; straight; opening angle 90° | Ø 5,0 mm; FL 330 mm |  |

"TC" means "tungsten carbide"

## Suture set

| Art.Nr.    | Description               | Size                | Spez. |
|------------|---------------------------|---------------------|-------|
| 618-100-43 | knot pusher with open eye | Ø 4,0 mm; FL 330 mm |       |



|            |                             |                     |  |
|------------|-----------------------------|---------------------|--|
| 618-105-43 | knot pusher with closed eye | Ø 4,0 mm; FL 330 mm |  |
|------------|-----------------------------|---------------------|--|



|            |                       |                     |  |
|------------|-----------------------|---------------------|--|
| 618-110-43 | knot pusher with slit | Ø 4,5 mm; FL 330 mm |  |
|------------|-----------------------|---------------------|--|

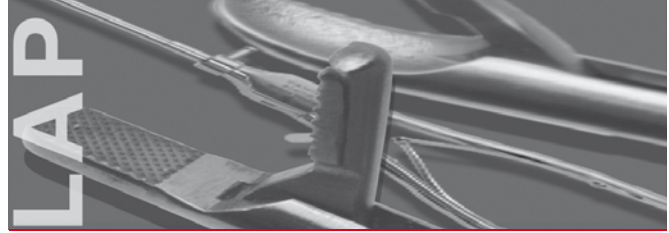


|            |                         |                     |  |
|------------|-------------------------|---------------------|--|
| 618-180-53 | knot pusher with 4 pins | Ø 5,0 mm; FL 330 mm |  |
|------------|-------------------------|---------------------|--|



|            |   |                    |  |
|------------|---|--------------------|--|
| 626-182-95 | reducer sleeve (for Art.Nr. 618-180-53) | Ø 11,0 mm – 5,0 mm |  |
|------------|---|--------------------|--|





## Suture set

| Art.Nr.    | Description                      | Size                | Spez. |
|------------|----------------------------------|---------------------|-------|
| 612-295-53 | knot pusher grasper; fenestrated | Ø 5,0 mm; FL 330 mm |       |



with cleaning channel; with Luer Lock connector

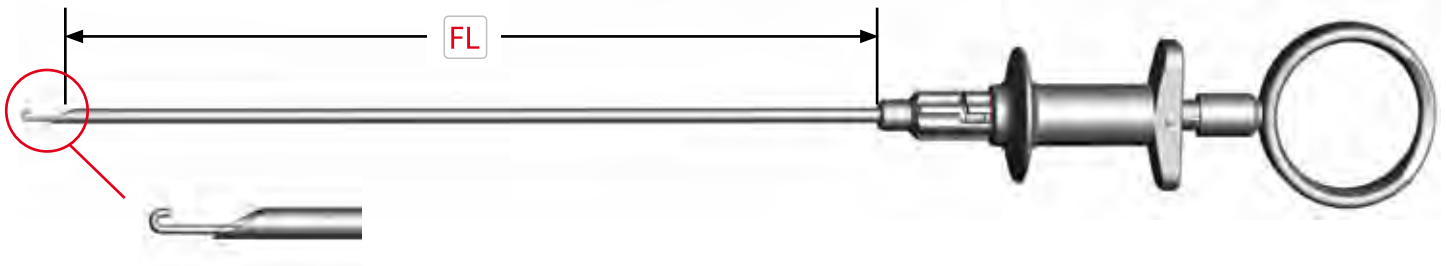
|            |                          |                     |  |
|------------|--------------------------|---------------------|--|
| 612-195-53 | needle receiving forceps | Ø 5,0 mm; FL 330 mm |  |
|------------|--------------------------|---------------------|--|



with cleaning channel; with Luer Lock connector

## Fascia closure device ("FCD")

| Art.Nr.    | Description                   | Size                | Spez. |
|------------|-------------------------------|---------------------|-------|
| 618-195-20 | fascia closure device ("FCD") | Ø 2,3 mm; FL 140 mm |       |



Push down the ring handle so that the needle is positioned outside the cannula. Set the thread into the "FCD" and make sure that the thread is positioned in the middle. Pull back the ring handle with your thumb so that the catcher hook is retracted into the cannula.



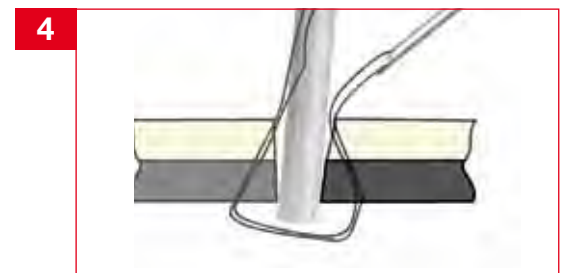
Penetrate the "FCD" through the subcutaneous tissue (using the incision of the trocar) in the abdominal wall. Make sure that the catcher hook is always retracted during this procedure.

After that, push down the ring handle so that the catcher hook comes out of the cannula.

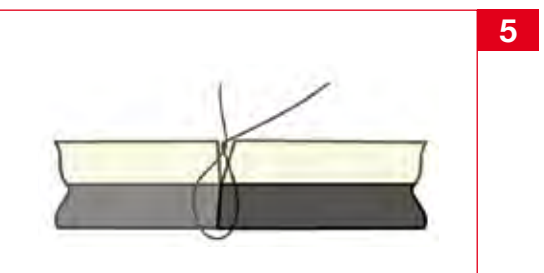
Now you can release the thread. Then retract the catcher hook by pulling the ring handle and extract the "FCD".



Now penetrate the "FCD" on the other side of the trocar (picture 2). Please make sure again that the catcher hook is retracted during this procedure. When you have come through the subcutaneous tissue push down the ring handle so that the catcher hook comes out. Take the loose end of the thread by making use of the catcher-hook.



Pull the ring handle to retract the catcher hook again. Then remove the "fcd" with the thread followed by the extraction of the trocar sleeve.



Knot the thread tightly in the subcutaneous tissue. This ensures an easy and safety handling of the abdominal wall closure.



## Endo-retractors with **CLEANING CHANNEL**

| Art.Nr.    | Description                                | Size                | Spez. |
|------------|--|---------------------|-------|
| 616-105-53 | retractor; bendable; 1 finger; fenestrated | Ø 5,0 mm; FL 340 mm |       |



with cleaning channel; with Luer Lock connector

|            |                                |                     |  |
|------------|--------------------------------|---------------------|--|
| 616-110-53 | retractor; bendable; 3 fingers | Ø 5,0 mm; FL 340 mm |  |
|------------|--------------------------------|---------------------|--|



with cleaning channel; with Luer Lock connector

|            |                                |                      |  |
|------------|--------------------------------|----------------------|--|
| 616-120-93 | retractor; bendable; 5 fingers | Ø 10,0 mm; FL 380 mm |  |
|------------|--------------------------------|----------------------|--|



with cleaning channel; with Luer Lock connector



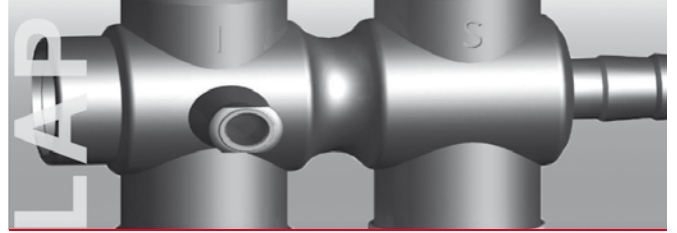
Endo-retractors; **DETACHABLE**

| Art.Nr.    | Description  | Size                | Spez. |
|------------|--|---------------------|-------|
| 616-205-53 | retractor; <b>detachable</b> ; bendable; 3 fingers | Ø 5,0 mm; FL 330 mm |       |








|            |  |                      |  |
|------------|--|----------------------|--|
| 616-220-53 | retractor; <b>detachable</b> ; bendable; 5 fingers | Ø 10,0 mm; FL 380 mm |  |
|------------|--|----------------------|--|










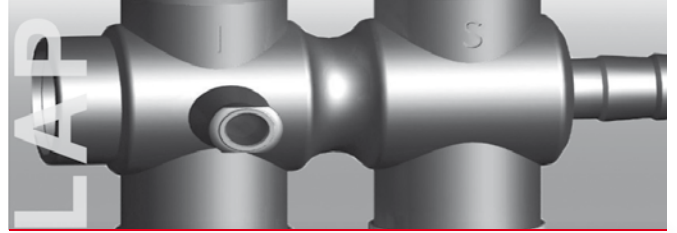
## Suction-/irrigation systems

| Art.Nr.    | Description   | Size                 | Spez.  |
|------------|---|----------------------|--|
| 620-010-00 | suction-/irrigation pistol handle style;<br>premium version; tube connectors;<br>with maximum suction flow Ø 5,2 mm |                      |  |
|            |   |                      |  |
| 620-010-33 | suction-/irrigation tube  | Ø 3,0 mm; FL 330 mm  |  |
|            |   |                      |   |
| 620-010-53 | suction-/irrigation tube  | Ø 5,0 mm; FL 330 mm  |  |
|            |   |                      |   |
| 620-010-93 | suction-/irrigation tube  | Ø 10,0 mm; FL 330 mm |  |
|            |   |                      |   |
| 622-050-00 | adapter for HF-electrodes   |                      |  |
|            |   |                      |  |

HF-electrodes see page 40

## Suction-/irrigation systems


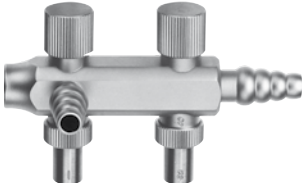






| Art.Nr.   | Description   | Size   | Spez. |
|---|---|--|-------|
| 620-015-00  | suction-/irrigation pistol handle style;<br>Luer Lock connectors;<br>with maximum suction flow Ø 4,4 mm |  |       |
|   |   |   |       |
| 620-015-09  | suction-/irrigation handle; Luer Lock connectors;<br>with maximum suction flow Ø 4,4 mm                 |  |       |
|   |   |  |       |
| 620-015-33  | suction-/irrigation tube  | Ø 3,0 mm; FL 330 mm  |       |
|  |   |  |       |
| 620-015-53  | suction-/irrigation tube  | Ø 5,0 mm; FL 330 mm  |       |
|  |   |  |       |
| 620-015-93  | suction-/irrigation tube  | Ø 10,0 mm; FL 330 mm   |       |
|  |   |  |       |



## Suction-/irrigation systems

| Art.Nr.    | Description   | Size                 | Spez. |
|------------|---|----------------------|-------|
| 620-020-00 | suction-/irrigation handles with trumpet valves;<br>Suction: large tube connector;<br>Irrigation: Luer Lock connector;<br>with maximum suction flow Ø 10,0 mm |                      |       |
| 620-020-10 | suction-/irrigation handle with trumpet valves;<br>Suction: small tube connector;<br>Irrigation: Luer Lock connector;<br>with maximum suction flow Ø 6,5 mm   |                      |       |
| 620-020-53 | suction-/irrigation tube  | Ø 5,0 mm; FL 330 mm  |       |
|            |   |                      |       |
| 620-020-93 | suction-/irrigation tube  | Ø 10,0 mm; FL 330 mm |       |
|            |   |                      |       |
| 620-030-00 | suction-/irrigation tube with Luer Lock stopcock  | Ø 5,0 mm; FL 330 mm  |       |
|            |   |                      |       |





## Suction-/irrigation systems

| Art.Nr.    | Description  | Size  | Spez.   |
|------------|--|---|---|
| 620-025-00 | suction-/irrigation handle with sliding valve;<br>tube connectors  |  |   |
| 620-025-09 | suction-/irrigation handle with trumpet valves;<br>tube connectors |  |   |
| 620-025-13 | suction-/irrigation tube; 16 holes (4 x 4)                         | Ø 5,0 mm; FL 330 mm   |  |
| 620-025-23 | suction-/irrigation tube; 48 holes (8 x 6)                         | Ø 5,0 mm; FL 330 mm   |  |
| 620-025-33 | suction-/irrigation tube; blunt; with holes (4 x 6)                | Ø 5,0 mm; FL 330 mm   |  |
| 620-025-43 | suction-/irrigation tube; needle                                   | Ø 5,0 mm; FL 330 mm   |  |
| 620-025-53 | suction-/irrigation tube; aqua dissection                          | Ø 5,0 mm; FL 330 mm   |  |
| 620-025-63 | suction-/irrigation tube; blunt; 12 holes                          | Ø 5,0 mm; FL 330 mm   |  |



**HF-laparoscopy electrodes;  
MONOPOLAR**








| Art.Nr.    | Description                  | Size                | Spez.   |
|------------|------------------------------|---------------------|---|
| 622-010-13 | button electrode; monopolar  | Ø 5,0 mm; FL 330 mm |    |
| 622-010-23 | J-hook electrode; monopolar  | Ø 5,0 mm; FL 330 mm |   |
| 622-010-33 | L-hook electrode; monopolar  | Ø 5,0 mm; FL 330 mm |  |
| 622-010-43 | spatula electrode; monopolar | Ø 5,0 mm; FL 330 mm |  |

monopolar cables see page 41

**HF-laparoscopy electrodes; with irrigation channel and trumpet valve;  
MONOPOLAR**











| Art.Nr.    | Description   | Size                | Spez.   |
|------------|---|---------------------|---|
| 622-030-13 | button electrode; monopolar;<br>trumpet valve and Luer Lock connector     | Ø 5,0 mm; FL 330 mm |    |
| 622-030-23 | J-hook electrode; monopolar;<br>trumpet valve and Luer Lock connector     | Ø 5,0 mm; FL 330 mm |    |
| 622-030-33 | L-hook electrode; monopolar;<br>trumpet valve and Luer Lock connector     | Ø 5,0 mm; FL 330 mm |  |
| 622-030-43 | spatula electrode; monopolar;<br>trumpet valve and Luer Lock connector    | Ø 5,0 mm; FL 330 mm |  |
| 622-030-53 | irrigation electrode; monopolar;<br>trumpet valve and Luer Lock connector | Ø 5,0 mm; FL 330 mm |  |

monopolar cables see page 41



**Suction-/irrigation-HF-combination system;  
MONOPOLAR**

| Art.Nr.    | Description   | Size                | Spez.   |
|------------|---|---------------------|---|
| 620-010-00 | suction-/irrigation pistol handle style;<br>premium version; tube connector |                     |    |
| 622-050-00 | adapter for HF-electrodes   |                     |   |
|            |   |                     |    |
| 622-050-13 | button electrodes   | Ø 5,0 mm; FL 330 mm |  |
| 622-050-23 | J-hook electrodes   | Ø 5,0 mm; FL 330 mm |  |
| 622-050-33 | L-hook electrodes   | Ø 5,0 mm; FL 330 mm |  |
| 622-050-43 | spatula electrodes  | Ø 5,0 mm; FL 330 mm |  |
| 622-050-53 | needle electrodes   | Ø 5,0 mm; FL 330 mm |  |

Suction-/irrigation tubes see page 34



## HF-laparoscopy needle electrodes; MONOPOLAR

| Art.Nr.    | Description                    | Size                | Spez. |
|------------|--------------------------------|---------------------|-------|
| 622-040-03 | HF-needle electrode; monopolar | Ø 5,0 mm; FL 320 mm |       |

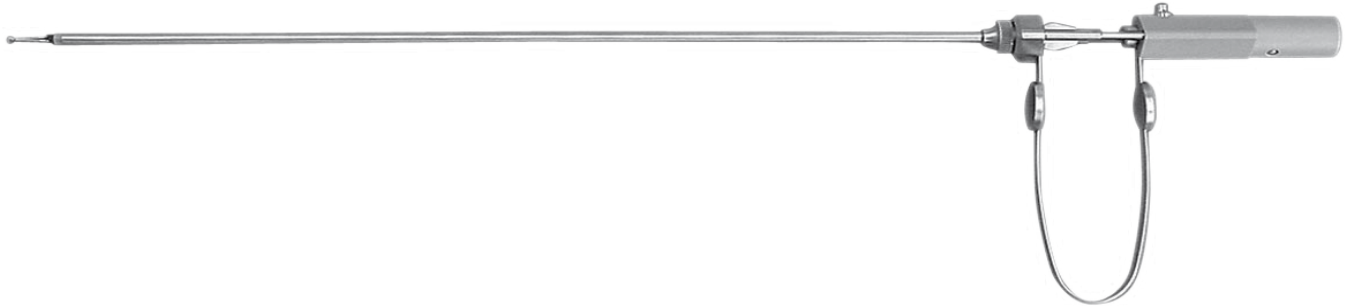


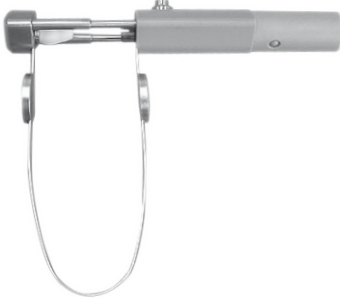







## Monopolar cables

| Art.Nr.    | Description                                 | Instrument-side | Unit-side    |
|------------|---|-----------------|--------------|
| 287-815-30 | monopolar HF-cable for Martin units         | Ø 4,0 mm        | Ø 4,0 mm 3 m |
| 287-815-50 | monopolar HF-cable for Martin units         | Ø 4,0 mm        | Ø 4,0 mm 5 m |
|            |   |                 |              |
| 287-825-30 | monopolar HF-cable for Valleylab units      | Ø 4,0 mm        | Ø 8,0 mm 3 m |
| 287-825-50 | monopolar HF-cable for Valleylab units      | Ø 4,0 mm        | Ø 8,0 mm 5 m |
|            |   |                 |              |
| 287-820-30 | monopolar HF-cable for Erbe (ACC/ICC) units | Ø 4,0 mm        | Ø 5,0 mm 3 m |
| 287-820-50 | monopolar HF-cable for Erbe (ACC/ICC) units | Ø 4,0 mm        | Ø 5,0 mm 5 m |
|            |   |                 |              |







## BIPOLAR coagulation forceps















| Art.Nr.    | Description                                      | Size  | Spez.               |
|------------|--|---|---------------------|
| 628-101-00 | spring handle for bipolar coagulation forceps    |   |                     |
| 628-101-99 | sealing cap for electrode; 10 pcs./box           |    |                     |
| 628-105-00 | scissors handle; for bipolar coagulation forceps |  |                     |
| 628-101-99 | sealing cap for electrode; 10 pcs./box           |    |                     |
| 628-110-53 | plastic shaft; for bipolar coagulation forceps   |    | Ø 5,0 mm; FL 330 mm |
| 628-110-54 | plastic shaft; for bipolar coagulation forceps   |    | Ø 5,0 mm; FL 450 mm |
| 628-115-53 | shaft metal; for bipolar coagulation forceps     |    | Ø 5,0 mm; FL 330 mm |
| 628-115-54 | metal shaft; for bipolar coagulation forceps     |    | Ø 5,0 mm; FL 450 mm |

## BIPOLAR coagulation forceps electrodes

| Art.Nr.    | Description   | Size  | Spez.     |
|------------|---|---|-----------|
| 628-140-53 | <b>tong type bipolar insert; wide 3 mm</b><br>→ shafts 628-110-53 or 628-115-53             |    | FL 330 mm |
| 628-140-54 | <b>tong type bipolar insert; wide 3 mm</b><br>→ shafts 628-110-54 or 628-115-54             |   | FL 450 mm |
| 628-142-53 | <b>fluted bit 1 mm bipolar insert; short insulated</b><br>→ shafts 628-110-53 or 628-115-53 |    | FL 330 mm |
| 628-142-54 | <b>fluted bit 1 mm bipolar insert; short insulated</b><br>→ shafts 628-110-54 or 628-115-54 |   | FL 450 mm |
| 628-143-53 | <b>fluted bit 1 mm bipolar insert; long insulated</b><br>→ shafts 628-110-53 or 628-115-53  |   | FL 330 mm |
| 628-143-54 | <b>fluted bit 1 mm bipolar insert; long insulated</b><br>→ shafts 628-110-54 or 628-115-54  |   | FL 450 mm |
| 628-144-53 | <b>grasping forceps; fenestrated</b><br>→ shafts 628-110-53 or 628-115-53                   |  | FL 330 mm |
| 628-144-54 | <b>grasping forceps; fenestrated</b><br>→ shafts 628-110-54 or 628-115-54                   |   | FL 450 mm |


## Bipolar cables

| Art.Nr.    | Description                                | Instrument-side  | Unit-side   |
|------------|--|--|---|
| 287-200-30 | bipolar cable for Erbe units               |  |  3 m           |
| 287-200-50 | bipolar cable for Erbe units               |  |  5 m           |
| 287-205-30 | bipolar cable for Martin units             |  |  3 m           |
| 287-205-50 | bipolar cable for Martin units             |  |  5 m           |
| 287-210-30 | bipolar Banana plugs cable with 2 x Ø 4 mm |  |  Ø 4,0 mm; 3 m |
| 287-210-50 | bipolar Banana plugs cable with 2 x Ø 4 mm |  |  Ø 4,0 mm; 5 m |
| 287-215-30 | bipolar cable for Valleylab units          |  |  Ø 4,0 mm; 3 m |
| 287-215-50 | bipolar cable for Valleylab units          |  |  Ø 4,0 mm; 5 m |










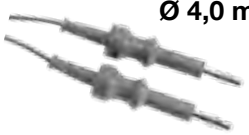


## BIPOLAR coagulation forceps

| Art.Nr.    | Description   | Size                | Spez. |
|------------|---|---------------------|-------|
| 628-201-53 | standard handle for bipolar coagulation forceps;<br>inclusive shaft | Ø 5,0 mm; FL 340 mm |       |











|            |   |                     |  |
|------------|---|---------------------|--|
| 628-205-53 | ring handle for bipolar coagulation forceps;<br>inclusive shaft | Ø 5,0 mm; FL 340 mm |  |
|------------|---|---------------------|--|



| Art.Nr.    | Description                                | Instrument-side  | Unit-side  |
|------------|--|--|--|
| 628-299-00 | adapter for bipolar cable with flat plug   |  | cable page 43  |
| 628-292-03 | bipolar cable for Erbe units               |  | <br>3 m           |
| 628-293-03 | bipolar cable for Martin units             |  | <br>3 m           |
| 628-294-03 | bipolar Banana plugs cable with 2 x Ø 4 mm |  | <br>Ø 4,0 mm; 3 m |
| 628-295-03 | bipolar cable for Valleylab units          |  | <br>Ø 4,0 mm; 3 m |

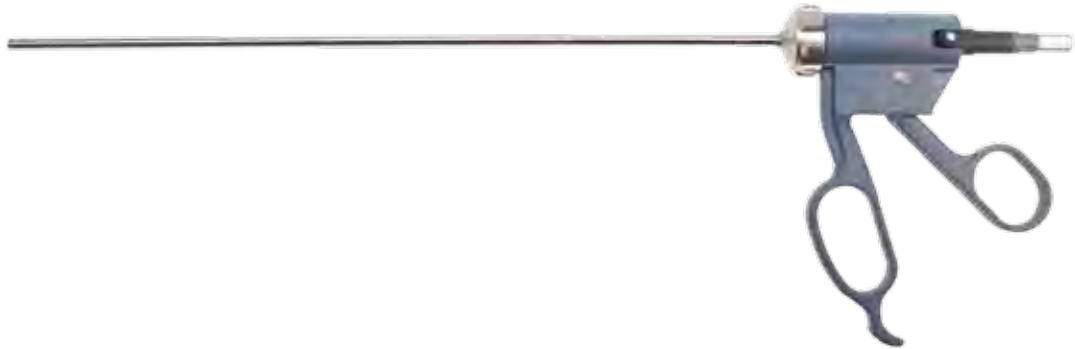
## BIPOLAR coagulation forceps

| Art.Nr.    | Description  | Size                | Spez.   |
|------------|--|---------------------|---|
| 628-240-53 | tong type;<br>bipolar insert; wide 3,0 mm              | for Ø 5,0 mm        |    |
| 628-242-53 | fluted bit 1 mm;<br>bipolar insert                     | for Ø 5,0 mm        |    |
| 628-244-53 | grasping forceps;<br>bipolar; fenestrated              | for Ø 5,0 mm        |    |
| 628-246-53 | MARYLAND<br>bipolar insert; curved                     | for Ø 5,0 mm        |  |
| 628-248-53 | KLEPPINGER<br>bipolar insert; serrated                 | for Ø 5,0 mm        |  |
| 628-250-53 | METZENBAUM<br>bipolar insert; scissors curved          | for Ø 5,0 mm        |  |
| 628-252-53 | METZENBAUM<br>bipolar insert; scissors TC blade curved | for Ø 5,0 mm        |  |
| 628-202-53 | outer shaft  | Ø 5,0 mm; FL 340 mm |   |











## BIPOLAR coagulation forceps power T-style

| Art.Nr.    | Description   | Size                | Spez. |
|------------|---|---------------------|-------|
| 628-301-53 | T-style handle for bipolar coagulation forceps; inclusive shaft | Ø 5,0 mm; FL 340 mm |       |










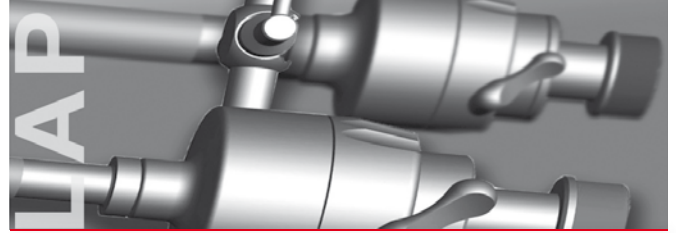
|            |   |                     |  |
|------------|---|---------------------|--|
| 628-305-53 | T-style turnable for bipolar coagulation forceps; inclusive shaft | Ø 5,0 mm; FL 340 mm |  |
|------------|---|---------------------|--|



| Art.Nr.    | Description                                | Instrument-side  | Unit-side   |
|------------|--|--|---|
| 287-200-30 | bipolar cable for Erbe units               |  |  3 m           |
| 287-205-30 | bipolar cable for Martin units             |  |  3 m           |
| 287-210-30 | bipolar Banana plugs cable with 2 x Ø 4 mm |  |  Ø 4,0 mm; 3 m |
| 287-215-30 | bipolar cable for Valleylab units          |  |  Ø 4,0 mm; 3 m |

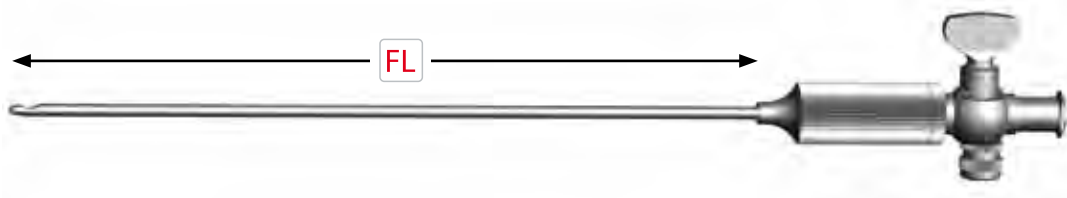
## BIPOLAR coagulation inserts for power T-style

| Art.Nr.    | Description  | Size                | Spez.   |
|------------|--|---------------------|---|
| 628-341-53 | micro grasper;<br>bipolar; fenestrated insert        | for Ø 5,0 mm        |    |
| 628-342-53 | grasping forceps;<br>bipolar; delicate curved insert | for Ø 5,0 mm        |    |
| 628-343-53 | grasping forceps;<br>bipolar; curved insert          | for Ø 5,0 mm        |    |
| 628-344-53 | grasping forceps;<br>bipolar; fenestrated insert     | for Ø 5,0 mm        |  |
| 628-346-53 | MARYLAND<br>bipolar insert                           | for Ø 5,0 mm        |  |
| 628-350-53 | METZENBAUM<br>bipolar insert; scissors curved        | for Ø 5,0 mm        |  |
| 628-302-53 | outer shaft  | Ø 5,0 mm; FL 340 mm |   |



## VERESS insufflation cannulas

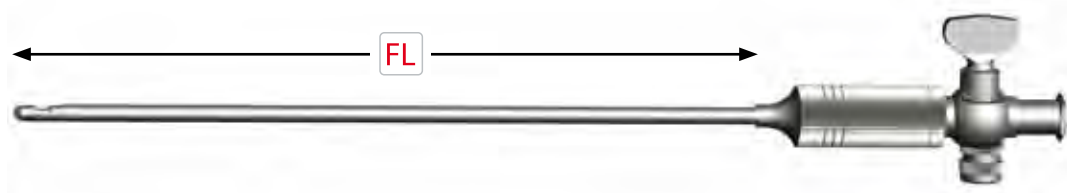
| Art.Nr. | Description  | Size     | Spez. |
|---------|--|----------|-------|
|         | VERESS insufflation cannula with Luer Lock connector | Ø 2,0 mm |       |



|            |           |
|------------|-----------|
| 618-510-05 | FL 55 mm  |
| 618-510-07 | FL 70 mm  |
| 618-510-08 | FL 80 mm  |
| 618-510-10 | FL 100 mm |
| 618-510-12 | FL 120 mm |
| 618-510-13 | FL 130 mm |
| 618-510-14 | FL 140 mm |
| 618-510-15 | FL 150 mm |
| 618-510-17 | FL 170 mm |
| 618-510-18 | FL 180 mm |
| 618-510-20 | FL 200 mm |
| 618-510-23 | FL 230 mm |

## VERESS HIGH FLOW insufflation cannula with Luer Lock connector

Ø 2,7 mm

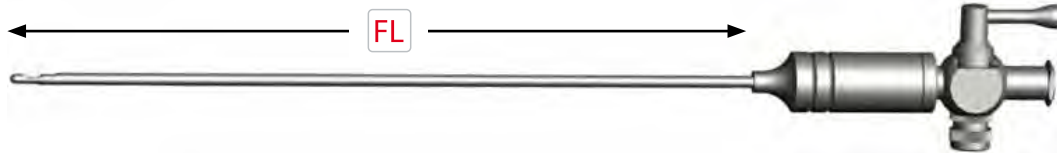


|            |           |
|------------|-----------|
| 618-515-10 | FL 100 mm |
| 618-515-12 | FL 120 mm |
| 618-515-15 | FL 150 mm |
| 618-515-17 | FL 170 mm |



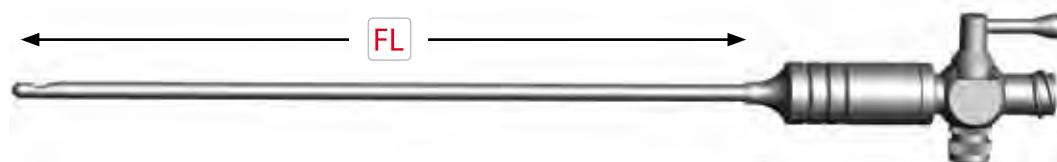
**VERESS insufflation cannulas; STAINLESS STEEL**

| Art.Nr. | Description   | Size     | Spez. |
|---------|---|----------|-------|
|         | VERESS insufflation cannula with Luer Lock connector; stainless steel | Ø 2,0 mm |       |

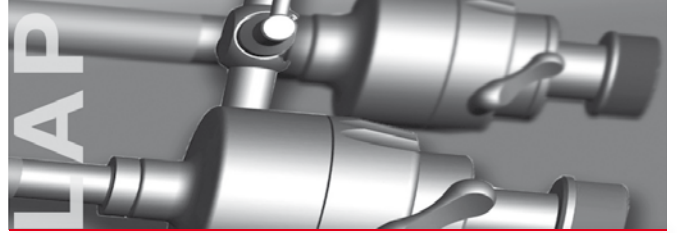


- 618-550-10 FL 100 mm
- 618-550-12 FL 120 mm
- 618-550-15 FL 150 mm

|  |          |
|--|----------|
| VERESS <b>HIGH FLOW</b> insufflation cannula with Luer Lock connector; stainless steel | Ø 2,7 mm |
|--|----------|



- 618-555-10 FL 100 mm
- 618-555-12 FL 120 mm
- 618-555-15 FL 150 mm



**Trocar system;**

**Ø 5,5 mm** manual opening lever; for Ø 5,0 mm instruments; FL 95 mm

| Art.Nr.    | Description                                | Size               | Spez.       |
|------------|--|--------------------|-------------|
| 626-121-51 | trocar sleeve; smooth metal tube           | Ø 5,5 mm; FL 95 mm |             |
|            |  |                    |             |
| 626-122-51 | trocar sleeve; retaining thread metal tube | Ø 5,5 mm; FL 95 mm |             |
|            |  |                    |             |
| 626-175-50 | trocar stop; retaining thread              | Ø 5,5 mm; FL 35 mm |             |
|            |  |                    |             |
| 626-170-50 | sealing cap Ø 5,5 mm (red)                 |                    | 10 pcs./box |
|            |  |                    |             |
| 626-171-50 | spare part set                             |                    | 10 pcs./box |
|            |  |                    |             |

**Trocar system;**  
**Ø 5,5 mm; FL 95 mm**

| Art.Nr.    | Description                    | Size                   | Spez. |
|------------|--------------------------------|------------------------|-------|
| 626-151-51 | trocar; conical tip            | Ø 5,5 mm; for FL 95 mm |       |
| 626-150-51 | trocar; conical tip; with hole | Ø 5,5 mm; for FL 95 mm |       |



|            |                       |                        |  |
|------------|-----------------------|------------------------|--|
| 626-152-51 | trocar; pyramidal tip | Ø 5,5 mm; for FL 95 mm |  |
|------------|-----------------------|------------------------|--|



|            |  |                        |  |
|------------|--|------------------------|--|
| 626-153-51 | trocar pyramidal; hollow grinding; with hole | Ø 5,5 mm; for FL 95 mm |  |
|------------|--|------------------------|--|



|            |                   |                        |  |
|------------|-------------------|------------------------|--|
| 626-154-51 | protection trocar | Ø 5,5 mm; for FL 95 mm |  |
|------------|-------------------|------------------------|--|

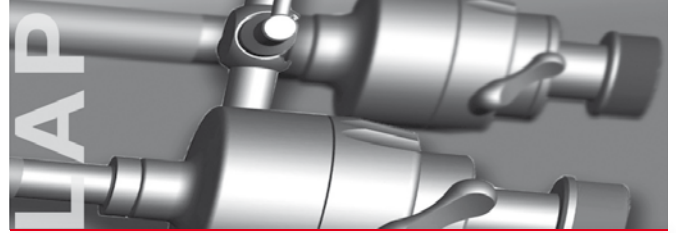


|            |                          |                        |  |
|------------|--------------------------|------------------------|--|
| 626-155-51 | safety trocar; pyramidal | Ø 5,5 mm; for FL 95 mm |  |
|------------|--------------------------|------------------------|--|



|            |                          |                        |  |
|------------|--------------------------|------------------------|--|
| 626-156-51 | safety trocar with knife | Ø 5,5 mm; for FL 95 mm |  |
|------------|--------------------------|------------------------|--|








**Trocar system;**

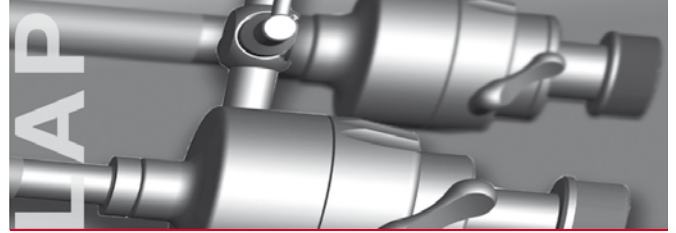
**Ø 5,5 mm** manual opening lever; for Ø 5,0 mm instruments; **FL 150 mm**

| Art.Nr.    | Description                      | Size                | Spez.       |
|------------|----------------------------------|---------------------|-------------|
| 626-212-59 | trocar sleeve; smooth metal tube | Ø 5,5 mm; FL 150 mm |             |
|            |                                  |                     |             |
| 626-175-50 | trocar stop; retaining thread    | Ø 5,5 mm; FL 35 mm  |             |
|            |                                  |                     |             |
| 626-170-50 | sealing cap Ø 5,5 mm (red)       |                     | 10 pcs./box |
|            |                                  |                     |             |
| 626-171-50 | spare part set                   |                     | 10 pcs./box |
|            |                                  |                     |             |

**Trocar system;**

**Ø 5,5 mm; FL 150 mm**

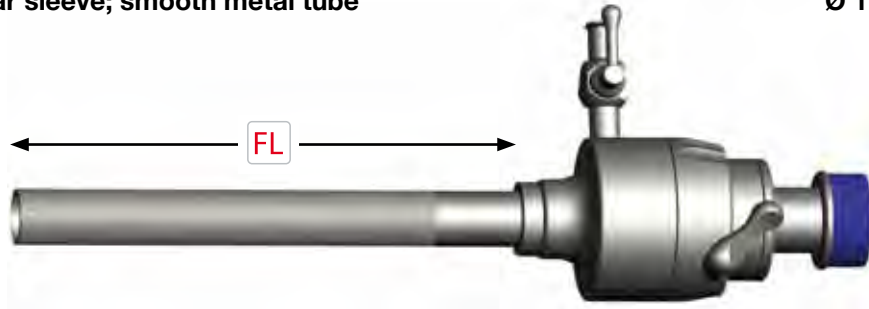
| Art.Nr.  | Description              | Size                    | Spez. |
|--|--------------------------|-------------------------|-------|
| 626-151-59   | trocar; conical tip      | Ø 5,5 mm; for FL 150 mm |       |
|   |                          |                         |       |
| 626-152-59   | trocar; pyramidal tip    | Ø 5,5 mm; for FL 150 mm |       |
|   |                          |                         |       |
| 626-155-59   | safety trocar; pyramidal | Ø 5,5 mm; for FL 150 mm |       |
|  |                          |                         |       |



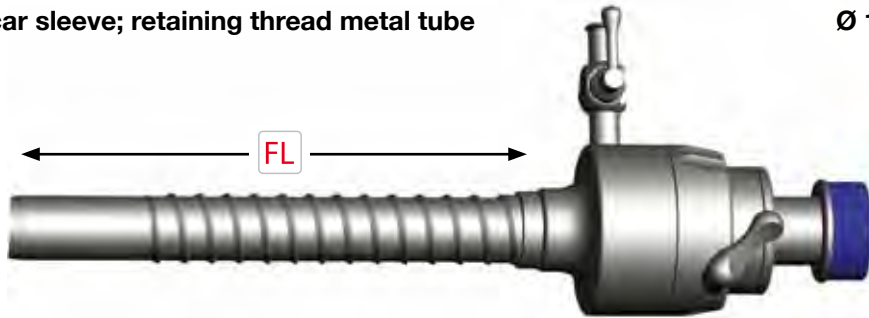
**Trocar system;**

**Ø 11,0 mm** manual opening lever; for Ø 10/11 mm instruments; FL 100 mm

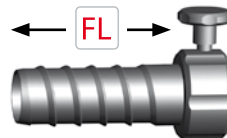
| Art.Nr.    | Description                      | Size                 | Spez. |
|------------|----------------------------------|----------------------|-------|
| 626-121-91 | trocar sleeve; smooth metal tube | Ø 11,0 mm; FL 100 mm |       |



|            |  |                      |  |
|------------|--|----------------------|--|
| 626-122-91 | trocar sleeve; retaining thread metal tube | Ø 11,0 mm; FL 100 mm |  |
|------------|--|----------------------|--|



|            |                               |                     |  |
|------------|-------------------------------|---------------------|--|
| 626-175-00 | trocar stop; retaining thread | Ø 11,0 mm; FL 35 mm |  |
|------------|-------------------------------|---------------------|--|



|            |                                   |  |             |
|------------|-----------------------------------|--|-------------|
| 626-170-90 | sealing cap Ø 10,0/11,0 mm (blue) |  | 10 pcs./box |
|------------|-----------------------------------|--|-------------|



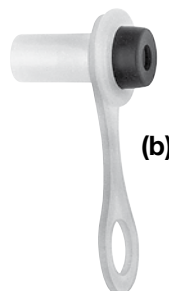
|            |                |  |             |
|------------|----------------|--|-------------|
| 626-171-90 | spare part set |  | 10 pcs./box |
|------------|----------------|--|-------------|



|            |             |  |                    |
|------------|-------------|--|--------------------|
| 626-178-95 | reducer (a) |  | Ø 11,0 mm – 5,0 mm |
| 626-180-95 | reducer (b) |  | Ø 11,0 mm – 5,0 mm |










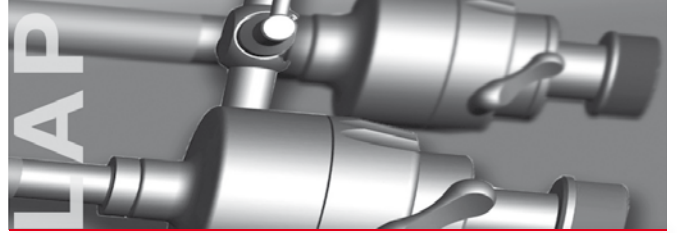
(a)



(b)

**Trocar system;**  
**Ø 11,0 mm; FL 100 mm**

| Art.Nr.   | Description                                  | Size                     | Spez. |
|---|--|--------------------------|-------|
| 626-151-91  | trocar; conical tip                          | Ø 11,0 mm; for FL 100 mm |       |
| 626-150-91  | trocar; conical tip; with hole               | Ø 11,0 mm; for FL 100 mm |       |
|    |  |                          |       |
| 626-152-91  | trocar; pyramidal tip                        | Ø 11,0 mm; for FL 100 mm |       |
|    |  |                          |       |
| 626-153-91  | trocar pyramidal; hollow grinding; with hole | Ø 11,0 mm; for FL 100 mm |       |
|  |  |                          |       |
| 626-154-91  | protection trocar                            | Ø 11,0 mm; for FL 100 mm |       |
|  |  |                          |       |
| 626-155-91  | safety trocar; pyramidal                     | Ø 11,0 mm; for FL 100 mm |       |
|  |  |                          |       |
| 626-156-91  | safety trocar with knife                     | Ø 11,0 mm; for FL 100 mm |       |
|  |  |                          |       |
| 626-182-95  | reducer sleeve                               | Ø 11,0 mm – 5,0 mm       |       |
|  |  |                          |       |



**Trocar system;**




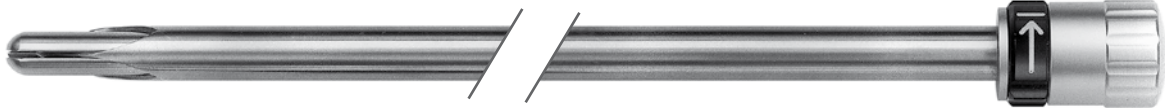

**Ø 11,0 mm** manual opening lever; for Ø 10/11 mm instruments; **FL 150 mm**

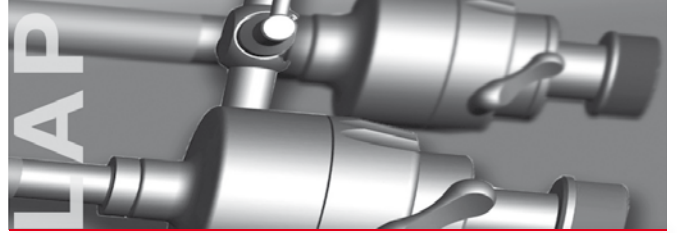
| Art.Nr.                  | Description                       | Size                                     | Spez.       |
|--------------------------|-----------------------------------|--|-------------|
| 626-121-99               | trocar sleeve; smooth metal tube  | Ø 11,0 mm; FL 150 mm                     |             |
|                          |                                   |  |             |
| 626-175-00               | trocar stop; retaining thread     | Ø 11,0 mm; FL 35 mm                      |             |
|                          |                                   |  |             |
| 626-170-90               | sealing cap Ø 10,0/11,0 mm (blue) |  | 10 pcs./box |
|                          |                                   |  |             |
| 626-171-90               | spare part set                    |  | 10 pcs./box |
|                          |                                   |  |             |
| 626-178-95<br>626-180-95 | reducer (a)<br>reducer (b)        | Ø 11,0 mm – 5,0 mm<br>Ø 11,0 mm – 5,0 mm |             |
|                          |                                   |  |             |



**Trocar system;**

**Ø 11,0 mm; FL 150 mm**

| Art.Nr.   | Description                                  | Size                     | Spez. |
|---|--|--------------------------|-------|
| 626-151-99  | trocar; conical tip                          | Ø 11,0 mm; for FL 150 mm |       |
|    |  |                          |       |
| 626-152-99  | trocar; pyramidal tip                        | Ø 11,0 mm; for FL 150 mm |       |
|    |  |                          |       |
| 626-153-99  | trocar pyramidal; hollow grinding; with hole | Ø 11,0 mm; for FL 150 mm |       |
|   |  |                          |       |
| 626-155-99  | safety trocar; pyramidal                     | Ø 11,0 mm; for FL 150 mm |       |
|  |  |                          |       |
| 626-182-95  | reducer sleeve                               | Ø 11,0 mm – 5,0 mm       |       |
|  |  |                          |       |










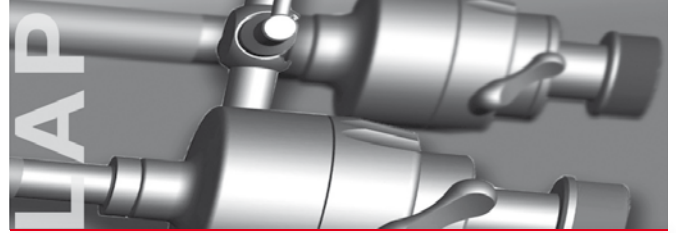
**Trocar system;**

**Ø 12,5 mm** manual opening lever; for Ø 12,5 mm instruments; FL 98 mm

| Art.Nr.    | Description                                | Size                | Spez.       |
|------------|--|---------------------|-------------|
| 626-121-11 | trocar sleeve; smooth metal tube           | Ø 12,5 mm; FL 98 mm |             |
|            |  |                     |             |
| 626-122-11 | trocar sleeve; retaining thread metal tube | Ø 12,5 mm; FL 98 mm |             |
|            |  |                     |             |
| 626-175-11 | trocar stop; retaining thread              | Ø 12,5 mm; FL 35 mm |             |
|            |  |                     |             |
| 626-170-11 | sealing cap Ø 12,5 mm (green)              |                     | 10 pcs./box |
|            |  |                     |             |
| 626-171-11 | spare part set                             |                     | 10 pcs./box |
|            |  |                     |             |
| 626-178-15 | reducer (a)                                | Ø 12,5 mm – 5,0 mm  |             |
| 626-180-15 | reducer (b)                                | Ø 12,5 mm – 5,0 mm  |             |
|            |  |                     |             |

**Trocar system;**  
**Ø 12,5 mm; FL 98 mm**

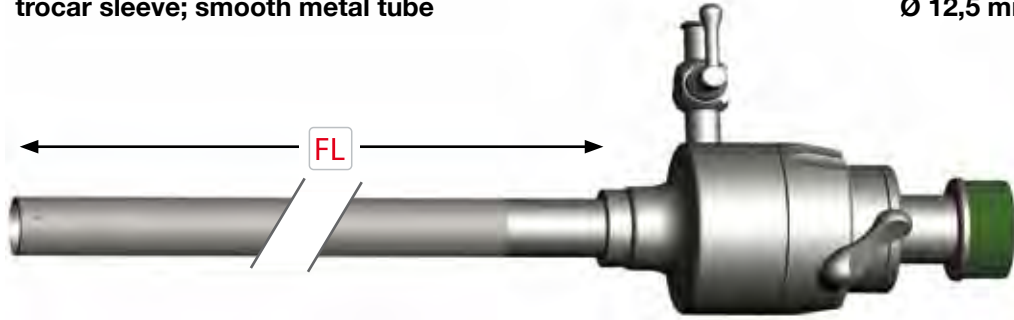
| Art.Nr.   | Description                                  | Size                    | Spez. |
|---|--|-------------------------|-------|
| 626-151-11  | trocar; conical tip                          | Ø 12,5 mm; for FL 98 mm |       |
| 626-150-11  | trocar; conical tip; with hole               | Ø 12,5 mm; for FL 98 mm |       |
|    |  |                         |       |
| 626-152-11  | trocar; pyramidal tip                        | Ø 12,5 mm; for FL 98 mm |       |
|    |  |                         |       |
| 626-153-11  | trocar pyramidal; hollow grinding; with hole | Ø 12,5 mm; for FL 98 mm |       |
|  |  |                         |       |
| 626-154-11  | protection trocar                            | Ø 12,5 mm; for FL 98 mm |       |
|  |  |                         |       |
| 626-155-11  | safety trocar; pyramidal                     | Ø 12,5 mm; for FL 98 mm |       |
|  |  |                         |       |
| 626-156-11  | safety trocar with knife                     | Ø 12,5 mm; for FL 98 mm |       |
|  |  |                         |       |
| 626-182-15  | reducer sleeve                               | Ø 12,5 mm – 5,0 mm      |       |
|  |  |                         |       |



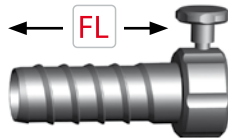
**Trocar system;**

**Ø 12,5 mm** manual opening lever; for Ø 12,5 mm instruments; **FL 150 mm**

| Art.Nr.    | Description                      | Size                 | Spez. |
|------------|----------------------------------|----------------------|-------|
| 626-121-19 | trocar sleeve; smooth metal tube | Ø 12,5 mm; FL 150 mm |       |



|            |                               |                     |  |
|------------|-------------------------------|---------------------|--|
| 626-175-11 | trocar stop; retaining thread | Ø 12,5 mm; FL 35 mm |  |
|------------|-------------------------------|---------------------|--|



|            |                               |  |             |
|------------|-------------------------------|--|-------------|
| 626-170-11 | sealing cap Ø 12,5 mm (green) |  | 10 pcs./box |
|------------|-------------------------------|--|-------------|



|            |                |  |             |
|------------|----------------|--|-------------|
| 626-171-11 | spare part set |  | 10 pcs./box |
|------------|----------------|--|-------------|



|            |             |                    |  |
|------------|-------------|--------------------|--|
| 626-178-15 | reducer (a) | Ø 12,5 mm – 5,0 mm |  |
| 626-180-15 | reducer (b) |                    |  |






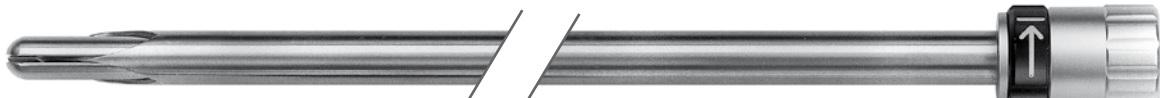

(a)

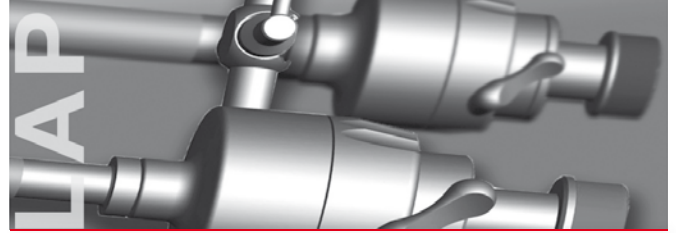


(b)

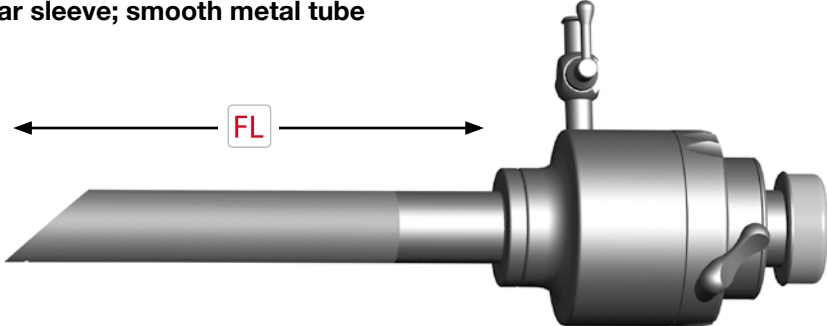





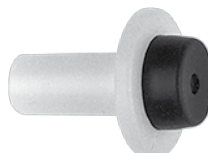
**Trocar system;**

**Ø 12,5 mm; FL 150 mm**

| Art.Nr.   | Description                                  | Size                     | Spez. |
|---|--|--------------------------|-------|
| 626-151-19  | trocar; conical tip                          | Ø 12,5 mm; for FL 150 mm |       |
|    |  |                          |       |
| 626-152-19  | trocar; pyramidal tip                        | Ø 12,5 mm; for FL 150 mm |       |
|    |  |                          |       |
| 626-153-19  | trocar pyramidal; hollow grinding; with hole | Ø 12,5 mm; for FL 150 mm |       |
|   |  |                          |       |
| 626-155-19  | safety trocar; pyramidal                     | Ø 12,5 mm; for FL 150 mm |       |
|  |  |                          |       |
| 626-182-15  | reducer sleeve                               | Ø 12,5 mm – 5,0 mm       |       |
|  |  |                          |       |

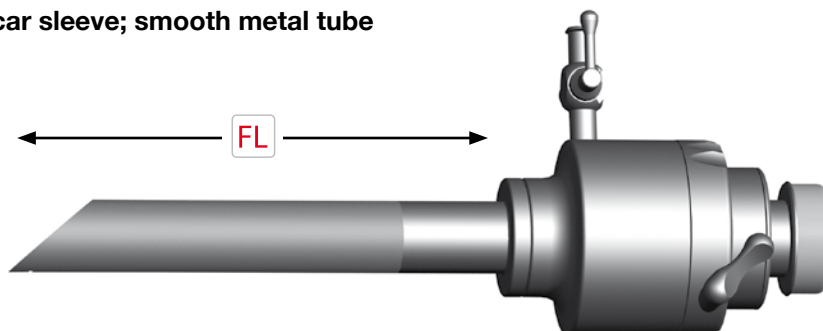


**Trocar system;**  
**Ø 15,0 mm** manual opening lever; FL 110 mm

| Art.Nr.    | Description   | Size                     | Spez.       |
|------------|---|--------------------------|-------------|
| 626-121-41 | trocar sleeve; smooth metal tube  | Ø 15,0 mm; FL 110 mm     |             |
|            |     |                          |             |
| 626-151-41 | trocar; conical tip   | Ø 15,0 mm; for FL 110 mm |             |
|            |     |                          |             |
| 626-152-41 | trocar; pyramidal tip   | Ø 15,0 mm; for FL 110 mm |             |
|            |   |                          |             |
| 626-179-41 | dilatations sleeve with guide rod   | Ø 5,0 – 15,0 mm          |             |
| 626-179-42 | dilatations sleeve with guide rod   | Ø 11,0 – 15,0 mm         |             |
|            |    |                          |             |
| 626-170-15 | sealing cap Ø 15,0 mm (grey)  |                          | 10 pcs./box |
|            |  |                          |             |
| 626-171-15 | spare part set  |                          | 10 pcs./box |
|            |   |                          |             |
| 626-180-45 | reducer   | Ø 15,0 mm – 5,0 mm       |             |
| 626-180-49 | reducer   | Ø 15,0 mm – 10,0 mm      |             |
|            |   |                          |             |

**Trocar system;**  
**Ø 20,0 mm** manual opening lever; FL 119 mm

| Art.Nr.    | Description                      | Size                 | Spez. |
|------------|----------------------------------|----------------------|-------|
| 626-121-21 | Trocar sleeve; smooth metal tube | Ø 20,0 mm; FL 119 mm |       |



|            |                     |                          |  |
|------------|---------------------|--------------------------|--|
| 626-151-21 | trocar; conical tip | Ø 20,0 mm; for FL 119 mm |  |
|------------|---------------------|--------------------------|--|



|            |                       |                          |  |
|------------|-----------------------|--------------------------|--|
| 626-152-21 | trocar; pyramidal tip | Ø 20,0 mm; for FL 119 mm |  |
|------------|-----------------------|--------------------------|--|



|            |                                   |                     |  |
|------------|-----------------------------------|---------------------|--|
| 626-179-21 | dilatations sleeve with guide rod | Ø 5,0 mm – 20 ,0 mm |  |
| 626-179-22 | dilatations sleeve with guide rod | Ø 11,0 mm – 20,0 mm |  |



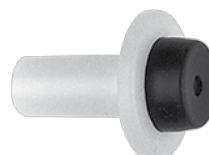
|            |                              |             |  |
|------------|------------------------------|-------------|--|
| 626-170-20 | sealing cap Ø 20,0 mm (grey) | 10 pcs./box |  |
|------------|------------------------------|-------------|--|



|            |                |             |  |
|------------|----------------|-------------|--|
| 626-171-20 | spare part set | 10 pcs./box |  |
|------------|----------------|-------------|--|



|            |         |                     |  |
|------------|---------|---------------------|--|
| 626-180-25 | reducer | Ø 20,0 mm – 5,0 mm  |  |
| 626-180-29 | reducer | Ø 20,0 mm – 10,0 mm |  |





**Laparoscopy telescopes suitable for HD-SYSTEMS;  
designed and optimized**



| Art.Nr.    | Description                | Size              | Spez. |
|------------|----------------------------|-------------------|-------|
| 601-010-09 | HD-telescope; autoclavable | Ø 10,0 mm; 340 mm | 0°    |
|            |                            |                   |       |
| 601-010-39 | HD-telescope; autoclavable | Ø 10,0 mm; 340 mm | 30°   |
|            |                            |                   |       |
| 601-010-49 | HD-telescope; autoclavable | Ø 10,0 mm; 340 mm | 45°   |
|            |                            |                   |       |
| 601-005-09 | HD-telescope; autoclavable | Ø 5,0 mm; 300 mm  | 0°    |
|            |                            |                   |       |
| 601-005-39 | HD-telescope; autoclavable | Ø 5,0 mm; 300 mm  | 30°   |
|            |                            |                   |       |

Tontarra telescopes are designed in particular for the demand and needs of diagnostic and therapeutic procedures for all endoscopic surgeries. Premium multi-coated optical systems ensuring high-quality imaging by allowing excellent optical transmission as well as high brilliance in image reproduction. All optical systems of the Tontarra endoscope line are sealed by using specially designed process for laser-welding and soldering. High quality scratch-resistant sapphire glass for proximal and distal sides of each optical system ensures extended longevity and durability. A special focus on the very precise centering of all mechanical and optical components allows in-surgery imaging of high contrast and brightness even at the edge.



## Light guide cables

| Art.Nr.    | Description  | Size              | Spez. |
|------------|--|-------------------|-------|
| 540-805-18 | light cable for <b>HALOGEN light</b> source without connectors | Ø 4,8 mm; 1800 mm |       |
| 540-805-23 | light cable for <b>HALOGEN light</b> source without connectors | Ø 4,8 mm; 2300 mm |       |
| 540-805-30 | light cable for <b>HALOGEN light</b> source without connectors | Ø 4,8 mm; 3000 mm |       |



|            |  |                   |
|------------|--|-------------------|
| 540-815-18 | HTT-light cable for <b>XENON light</b> source without connectors | Ø 4,8 mm; 1800 mm |
| 540-815-23 | HTT-light cable for <b>XENON light</b> source without connectors | Ø 4,8 mm; 2300 mm |
| 540-815-30 | HTT-light cable for <b>XENON light</b> source without connectors | Ø 4,8 mm; 3000 mm |

**HTT:** High Transmission Technology

## Light cable connectors

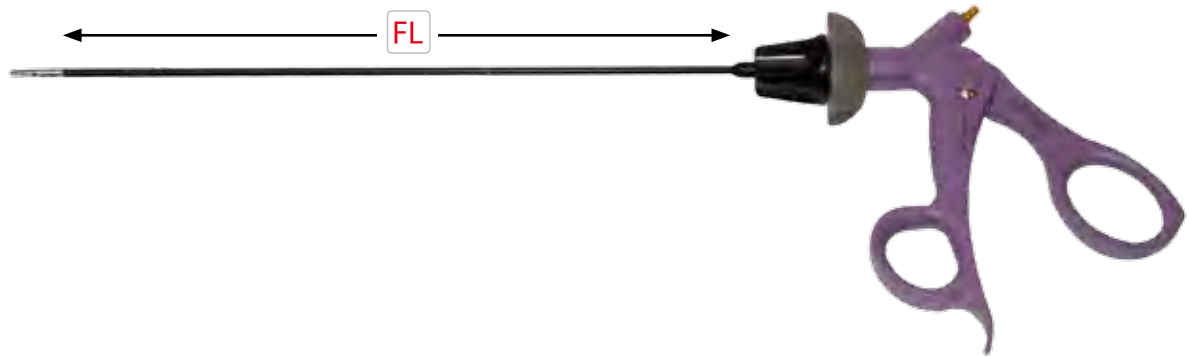
| Art.Nr.    | Telescope-side   | Art.Nr.    | Unit-side  |
|------------|--|------------|--|
|            |               |            |                |
| 540-880-02 | Storz         | 540-890-02 | Storz          |
| 540-880-05 | Wolf, clip    | 540-890-04 | Wolf           |
| 540-880-13 | Wolf, snap    |            |  |
| 540-880-01 | ACMI/Stryker  | 540-890-01 | ACMI/ Stryker  |

other adapters on request



## Endoor laparoscopy instrument system for pediatric use Ø 3 mm

| Art.Nr. | Description | Size | Spez. |
|---------|-------------|------|-------|
|---------|-------------|------|-------|



insert complete with shaft; **NON-DETACHABLE**

|            |                               |                     |
|------------|-------------------------------|---------------------|
| 610-500-32 | <b>METZENBAUM</b><br>scissors | Ø 3,0 mm; FL 220 mm |
|------------|-------------------------------|---------------------|



|             |                                     |                     |
|-------------|-------------------------------------|---------------------|
| 610-542-32. | <b>MARYLAND</b><br>grasping forceps | Ø 3,0 mm; FL 220 mm |
|-------------|-------------------------------------|---------------------|



|             |                                    |                     |
|-------------|------------------------------------|---------------------|
| 610-544-32. | grasping forceps;<br>non-traumatic | Ø 3,0 mm; FL 220 mm |
|-------------|------------------------------------|---------------------|



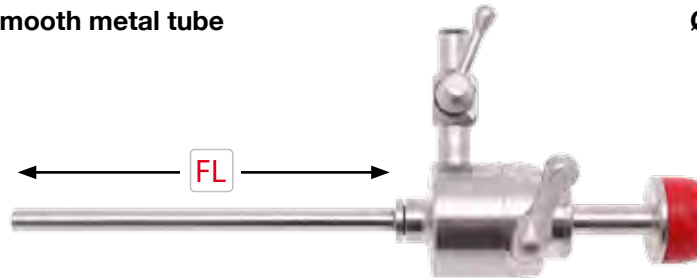
|             |                         |                     |
|-------------|-------------------------|---------------------|
| 610-546-32. | <b>COBRA</b><br>forceps | Ø 3,0 mm; FL 220 mm |
|-------------|-------------------------|---------------------|



Endoor handles see page 8

## Endoor laparoscopy instrument system for pediatric use

| Art.Nr.    | Description                      | Size               | Spez. |
|------------|----------------------------------|--------------------|-------|
| 626-121-31 | trocar sleeve; smooth metal tube | Ø 3,5 mm; FL 70 mm |       |



|            |                     |                        |  |
|------------|---------------------|------------------------|--|
| 626-151-31 | trocar; conical tip | Ø 3,5 mm; for FL 70 mm |  |
|------------|---------------------|------------------------|--|



|            |                       |                        |  |
|------------|-----------------------|------------------------|--|
| 626-152-31 | trocar; pyramidal tip | Ø 3,5 mm; for FL 70 mm |  |
|------------|-----------------------|------------------------|--|



## HF-laparoscopy electrodes monopolar



| Art.Nr.    | Description                 | Size                | Spez. |
|------------|-----------------------------|---------------------|-------|
| 622-005-13 | button electrode; monopolar | Ø 3,5 mm; FL 330 mm |       |



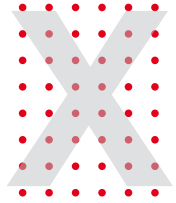
|            |                             |                     |  |
|------------|-----------------------------|---------------------|--|
| 622-005-23 | J-hook electrode; monopolar | Ø 3,5 mm; FL 330 mm |  |
|------------|-----------------------------|---------------------|--|



|            |                             |                     |  |
|------------|-----------------------------|---------------------|--|
| 622-005-33 | L-hook electrode; monopolar | Ø 3,5 mm; FL 330 mm |  |
|------------|-----------------------------|---------------------|--|

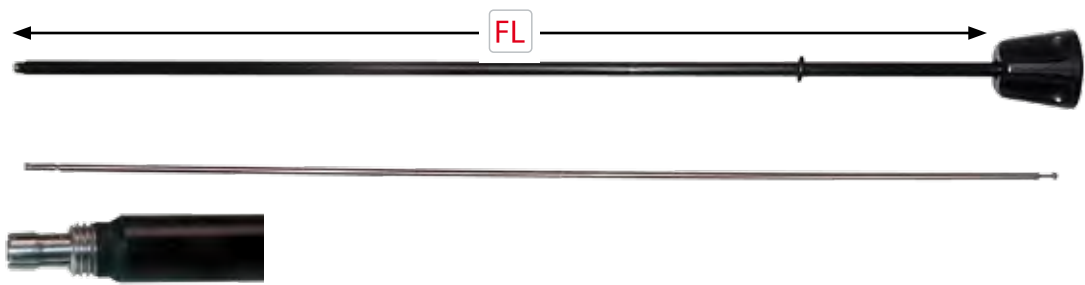


monopolar cables see page 41



**Endoor Cut;** disposable laparoscopy instrument tip-system;  
interchangeable disposable instrument tips to use with reusable handle-/shaft-system

| Art.Nr.    | Description  | Size   | Spez. |
|------------|--|--|-------|
| 610-001-00 | Endoor handle; <b>without ratchet</b>  |   |       |
| 610-005-00 | Endoor handle; <b>with ratchet</b> ;<br>ratchet can be optionally activated or deactivated |  |       |
| 610-002-95 | Endoor Cut shaft insulated with cup nut for disposable tips;<br><b>REUSABLE</b>            | Ø 5,0 mm; FL 310 mm  |       |
| 610-002-96 | Endoor Cut shaft insulated with cup nut for disposable tips;<br><b>REUSABLE</b>            | Ø 5,0 mm; FL 450 mm  |       |

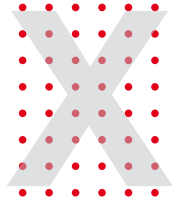


monopolar cables see page 41

**Endoor Cut;** disposable tips for laparoscopy instrument system;  
interchangeable disposable instrument tips to use with reusable handle-/shaft-system

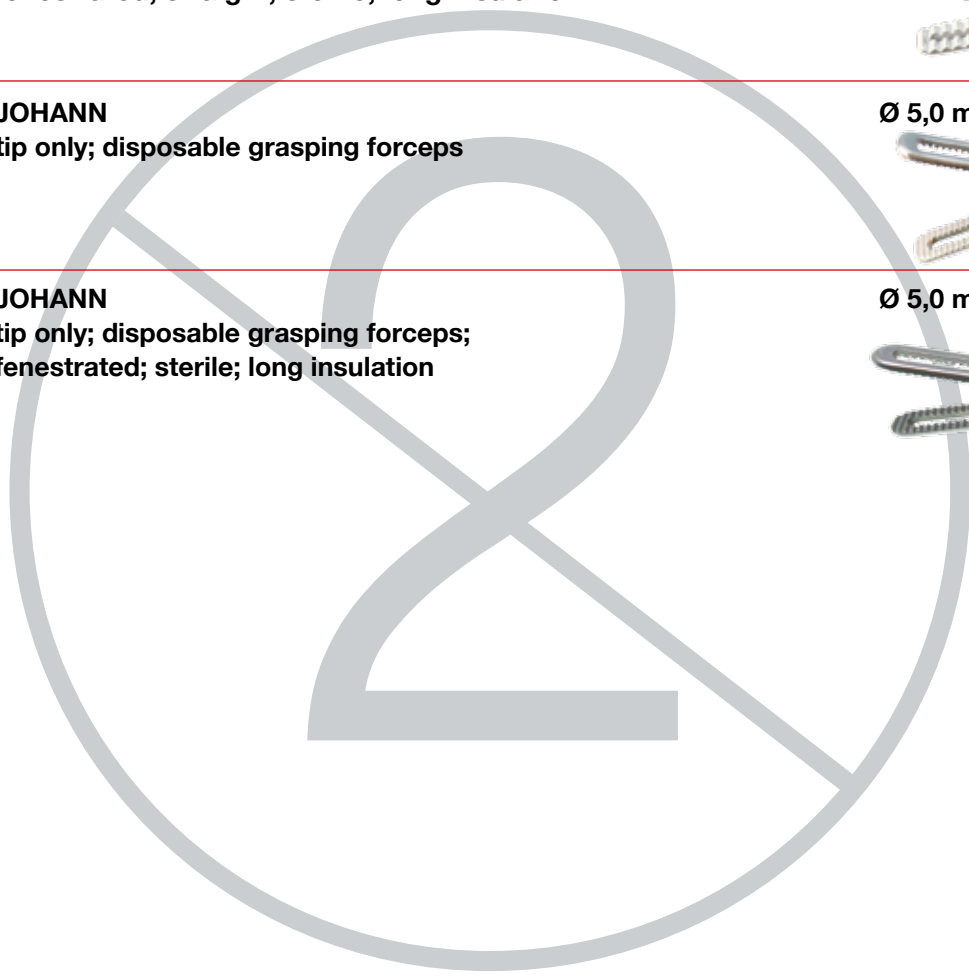
| Art.Nr.    | Description   | Size     | Spez.      |
|------------|---|----------|------------|
| 482-900-50 | <b>METZENBAUM</b><br>tip only; disposable scissors; curved; standard blade 16 mm;<br>sterile; long insulation | Ø 5,0 mm | 5 pcs./box |
| 482-900-51 | <b>METZENBAUM</b><br>tip only; disposable scissors; curved; short blade 10 mm;<br>sterile; long insulation    | Ø 5,0 mm | 5 pcs./box |
| 482-900-52 | <b>METZENBAUM</b><br>tip only; disposable scissors; curved; long blade 20 mm;<br>sterile; long insulation     | Ø 5,0 mm | 5 pcs./box |
| 482-900-53 | <b>METZENBAUM</b><br>tip only; disposable scissors; straight blade 20 mm;<br>sterile; long insulation         | Ø 5,0 mm | 5 pcs./box |





**Endoor Cut;** disposable tips for laparoscopy instrument system;  
interchangeable disposable instrument tips to use with reusable handle-/shaft-system

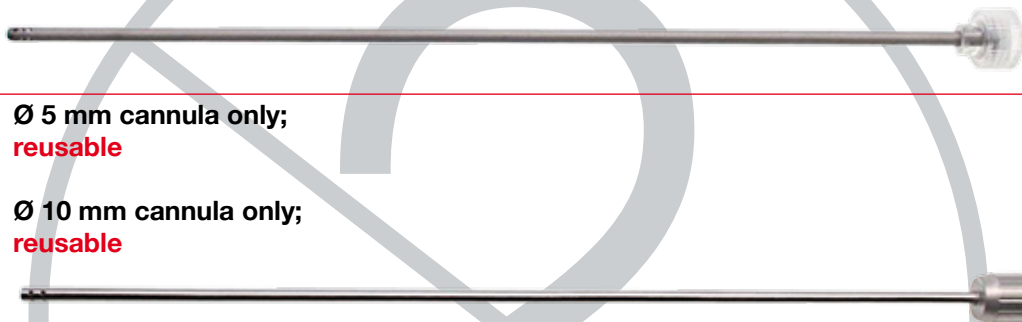
| Art.Nr.    | Description   | Size     | Spez.      |
|------------|---|----------|------------|
| 482-900-60 | <b>MARYLAND</b><br>tip only; disposable dissector; curved;<br>sterile   | Ø 5,0 mm | 5 pcs./box |
| 482-900-70 | <b>MARYLAND</b><br>tip only; disposable dissector; curved;<br>sterile; long insulation                          | Ø 5,0 mm | 5 pcs./box |
| 482-900-61 | <b>ENDO CLINCH</b><br>ip only; disposable grasping forceps;<br>fenestrated; straight; sterile                   | Ø 5,0 mm | 5 pcs./box |
| 482-900-71 | <b>ENDO CLINCH</b><br>tip only; disposable grasping forceps;<br>fenestrated; straight; sterile; long insulation | Ø 5,0 mm | 5 pcs./box |
| 482-900-62 | <b>JOHANN</b><br>tip only; disposable grasping forceps  | Ø 5,0 mm | 5 pcs./box |
| 482-900-72 | <b>JOHANN</b><br>tip only; disposable grasping forceps;<br>fenestrated; sterile; long insulation                | Ø 5,0 mm | 5 pcs./box |



**Disposable Suction-irrigation-set;**  
disposable; sterile



| Art.Nr.    | Description  | Size | Spez.       |
|------------|--|------|-------------|
| 521-090-05 | suction-/irrigation-set;<br>3 m tubing; 2 spikes; incl. Ø 5 mm cannula;<br>disposable; sterile   |      | 20 pcs./box |
| 521-090-10 | suction-/irrigation-set;<br>3 m tubing; 2 spikes; incl. Ø 10 mm cannula;<br>disposable; sterile  |      | 20 pcs./box |
| 521-090-00 | suction-/irrigation-set;<br>3 m tubing; 2 spikes; disposable;<br>sterile; <b>without cannula</b> |      | 20 pcs./box |
| 521-090-50 | Ø 5 mm cannula only;<br>disposable; sterile  |      | 10 pcs./box |
| 521-090-51 | Ø 10 mm cannula only;<br>disposable; sterile   |      | 10 pcs./box |
| 521-090-60 | Ø 5 mm cannula only;<br><b>reusable</b>  |      | 1 pcs./box  |
| 521-090-61 | Ø 10 mm cannula only;<br><b>reusable</b>   |      | 1 pcs./box  |



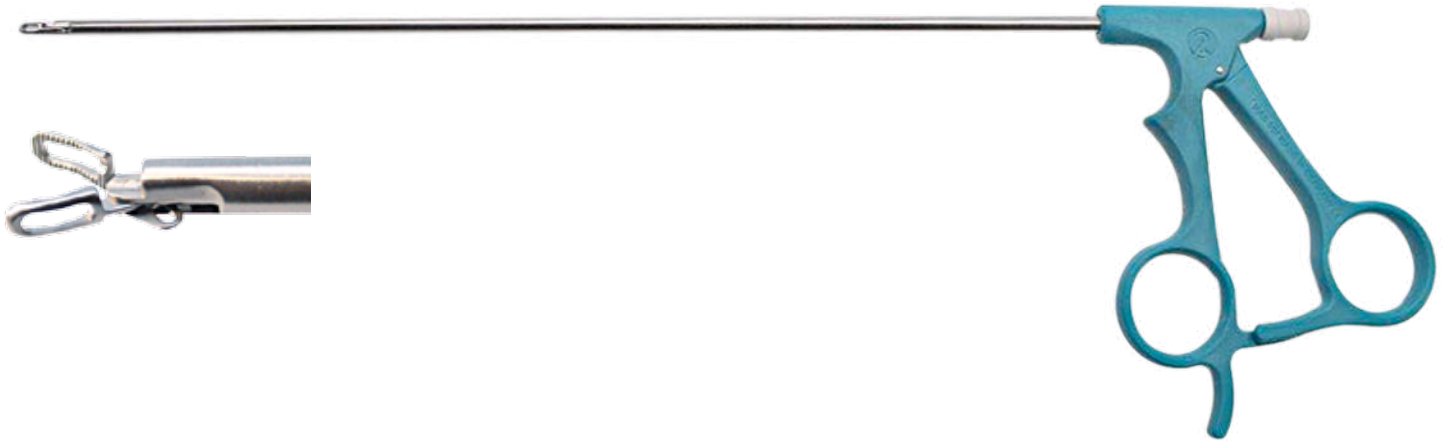
With these disposable sets TONTARRA Medizintechnik GmbH offers an integrated system of tubing, valve and cannula that allows the physician to comfortably and efficiently irrigate and aspirate during and after the surgical procedure.

- Flow controlling trumpet valve
- Ergonomically designed
- Plunger caps are color-marked and contour-coded
- Smooth and reliable operation control for irrigation and aspiration
- Equipped with twin irrigation spikes and blocking clamps
- Stainless steel cannulas in Ø 5 mm and Ø 10 mm
- Fitted with non-traumatic tip with suction relief holes
- Cannula with a functional length of 33 cm (13")
- Sterile packaging



## Cholangiography fixation forceps

| Art.Nr. | Description  | Size                | Spez.       |
|---------|--|---------------------|-------------|
| MAS-007 | OLSEN SWAN<br>cholangiography fixation forceps; disposable | Ø 5,0 mm; FL 330 mm | 10 pcs./box |





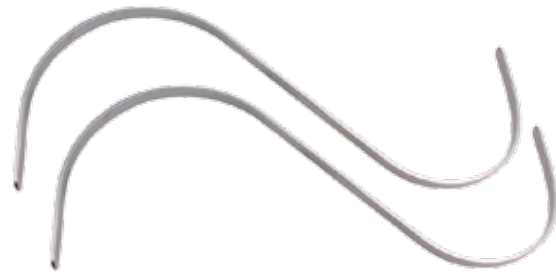
**Accessories;  
retractor for gall bladder extraction**

| <b>Art.Nr.</b> | <b>Description</b>                           | <b>Size</b> | <b>Spez.</b> |
|----------------|--|-------------|--------------|
| 527-040-00     | abdominal speculum;<br>valve inner Ø 12,0 mm |             |              |



|            |                                 |  |        |
|------------|---------------------------------|--|--------|
| 527-042-00 | s-retractor-set;<br>wide 5,5 mm |  | 2 pcs. |
|------------|---------------------------------|--|--------|

|            |                                  |  |        |
|------------|----------------------------------|--|--------|
| 527-042-11 | s-retractor-set;<br>wide 11,0 mm |  | 2 pcs. |
|------------|----------------------------------|--|--------|





## Accessories

| Art.Nr.    | Description     | Size                | Spez. |
|------------|-----------------|---------------------|-------|
| 618-190-53 | palpation probe | Ø 5,0 mm; FL 330 mm |       |
| 618-190-54 | palpation probe | Ø 5,0 mm; FL 450 mm |       |



|            |  |  |  |
|------------|--|--|--|
| 499-100-25 | storage and sterilisation rack;<br>for 15 pieces of laparoscopy instruments;<br>Ø 5 mm or Ø 10 mm;<br>470 x 250 x 150 mm |  |  |
|------------|--|--|--|



|            |                       |  |             |
|------------|-----------------------|--|-------------|
| 087-950-01 | Luer Lock closing cap |  | 10 pcs./box |
|------------|-----------------------|--|-------------|

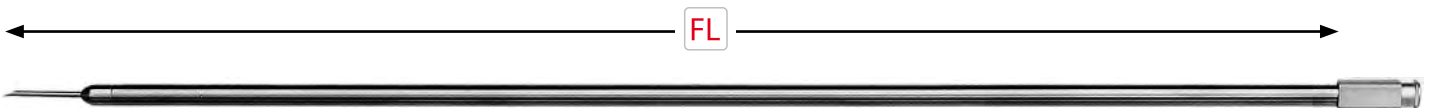


|            |                                 |  |             |
|------------|---------------------------------|--|-------------|
| 087-955-01 | Luer Lock closing cap; silicone |  | 10 pcs./box |
|------------|---------------------------------|--|-------------|



**Accessories;  
Puncture-injection-needles**

| Art.Nr. | Description | Size     | Spez. |
|---------|-------------|----------|-------|
|         |             | Ø 5,0 mm |       |



- 618-203-07    Ø 0,7 mm needle; FL 330 mm
- 618-203-09    Ø 0,9 mm needle; FL 330 mm
- 618-203-12    Ø 1,2 mm needle; FL 330 mm
- 618-204-12    Ø 1,2 mm needle; FL 450 mm
- 618-203-14    Ø 1,4 mm needle; FL 330 mm
- 618-204-14    Ø 1,4 mm needle; FL 450 mm
- 618-203-15    Ø 1,5 mm needle; FL 330 mm
- 618-204-15    Ø 1,5 mm needle; FL 450 mm
- 618-203-18    Ø 1,8 mm needle; FL 330 mm
- 618-204-18    Ø 1,8 mm needle; FL 450 mm

# TONTARRA

ENDOSCOPY



## ENDOOR C

YOUR KEY TO PERFECT  
LAPAROSCOPIC PERFORMANCE

HIGH-END LAPAROSCOPY INSTRUMENT SYSTEM  
FOR Ø 5,0 mm INSERTS

Three-part detachable · monopolar · 360° rotatable  
Handles available with or without ratchet

## ABOUT US

For more than 50 years “made by TONTARRA, Germany” is a synonym for state-of-the-art surgical and endoscopic instruments and equipment.

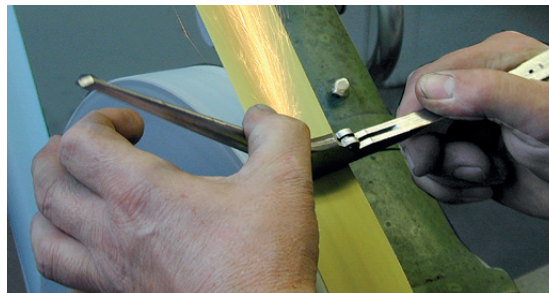
This success and the international recognition of the skillfulness in surgical and endoscopic instrument making of Tontarra Medizintechnik GmbH are based on our commitment to medical innovation, mastery in manufacturing, and a strong focus on our continuing tradition of excellence.

The confidence in our surgical and endoscopic lines as expressed by our international customers, distribution- and OEM-partners are a driving force to face and meet new challenges.

# TONTARRA



Indispensable ‘tools’ for maturing new ideas into high-precision surgical instruments of highest precision include our state-of-the-art manufacturing facility and production processes, and especially the comprehensive technical know-how, ingenuity and strong commitment of our entire team.



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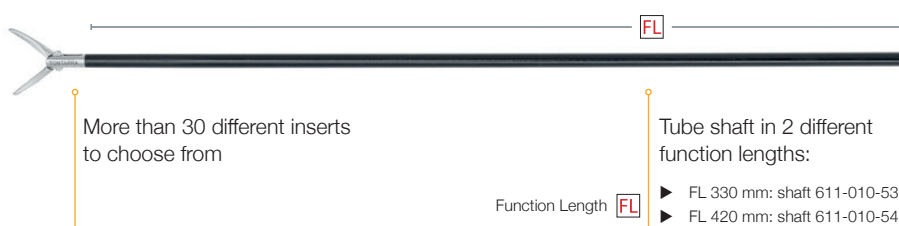
# ENDOOR C – YOUR KEY TO PERFECT LAPAROSCOPIC PERFORMANCE

The high-end instrument system for laparoscopy

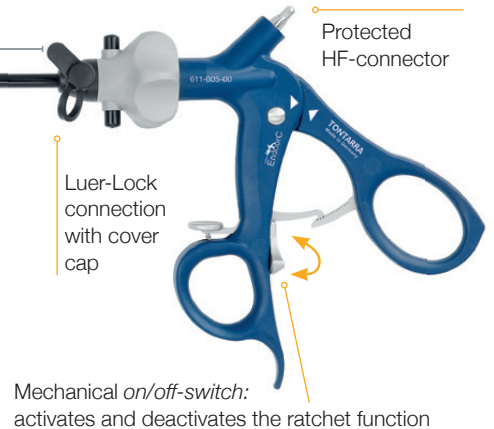
## ▶ TECHNICAL SPECIFICATIONS

- ▶ Assembling and dismantling made easy thanks to a unique and mechanically safe connection system developed by TONTARRA.
- ▶ Designed for continuously varying 360° rotation for highly precise manipulation
- ▶ Made of high-quality reinforced plastics
- ▶ The three-part-design allows an easy maintenance and cleaning, with the extra plus of an integrated Luer Lock connection of the shaft
- ▶ Easy cleaning (Luer Lock), fully autoclavable (134-137°C; 4 min)
- ▶ Excellent practice-proven ergonomic design

- ▶ Easy assembly and disassembly
- ▶ Easy cleaning (3 single parts & Luer Lock flushing port)
- ▶ Ergonomic handle design for smooth maneuvering and a stress-free surgery
- ▶ Wide range of interchangeable high-precision Ø 5 mm instrument inserts

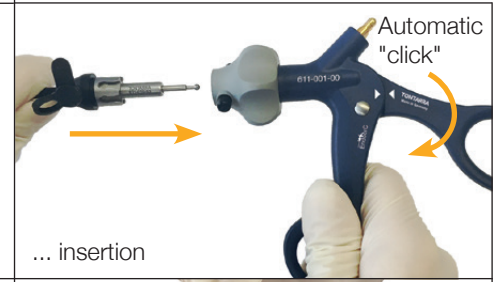
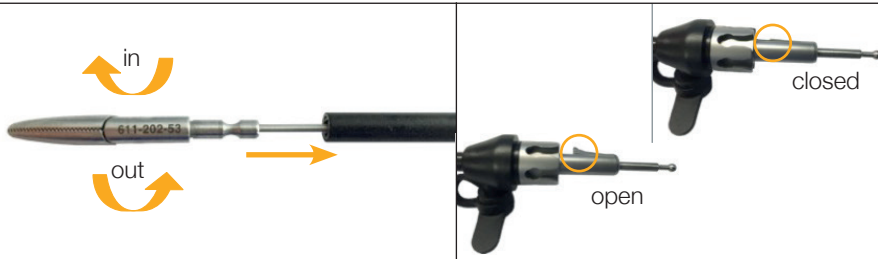


HANDLE AVAILABLE WITH OR WITHOUT RATCHET



Placing/Removing the insert

... automatic bayonet locking



Exclusively manufactured in Germany according to TONTARRA's defined precision engineering standards and measurements.

Insertion/Removal of the working element





# ENDOOR C LAPAROSCOPY INSTRUMENT SYSTEM

▶ for Ø 5,0 mm inserts



## ENDOOR C – HANDLES

| Description                       | Art.Nr. insert |  |
|-----------------------------------|----------------|--|
| ENDOOR C handle ▶ without ratchet | 611-001-00     | <ul style="list-style-type: none"> <li>· The ergonomic design fits to all hand-sizes, and allows various ergonomic finger positions</li> <li>· The smooth-running ratchet can be easily activated and de-activated by simply rotating the selector</li> <li>· Fits both shaft lengths (see below)</li> </ul> |
| ENDOOR C handle ▶ with ratchet    | 611-005-00     |  |



## ENDOOR C – SHAFTS

▶ Ø 5,0 mm

| Description  | Art.Nr. insert |   |
|--|----------------|---|
| ENDOOR C shaft ▶ insulated with Luer Lock<br>▶ FL 330 mm | 611-010-53     | <ul style="list-style-type: none"> <li>· Mechanically safe and easy connection between shaft/ insert and the bayonet-connection shaft/handle - free from backlash mechanisms for excellent tactile feedback</li> <li>· Accurate shaft coating with optimal insulation and superb sliding characteristics</li> <li>· With Luer Lock flushing port, cover cap</li> <li>· O-ring inside to prevent gas loss</li> </ul> |
| ENDOOR C shaft ▶ FL 420 mm                               | 611-010-54     |   |







# ENDOOR C LAPAROSCOPY INSTRUMENT INSERTS

- ▶ Ø 5,0 mm inserts
- ▶ double action jaw/single action jaw





## ENDOOR C – SCISSORS

▶ Ø 5,0 mm [double action jaw]

| Description |   | Art.Nr. insert         |                          |   |
|-------------|---|------------------------|--------------------------|---|
| METZENBAUM  | <ul style="list-style-type: none"> <li>▶ standard scissors curved</li> <li>▶ serrated</li> <li>▶ blade 14 mm</li> </ul> | FL 330 mm              | 611-100-53               |    |
| METZENBAUM  | <ul style="list-style-type: none"> <li>▶ standard scissors curved</li> <li>▶ serrated</li> <li>▶ blade 18 mm</li> </ul> | FL 330 mm<br>FL 420 mm | 611-110-53<br>611-110-54 |   |
| METZENBAUM  | <ul style="list-style-type: none"> <li>▶ modified</li> <li>▶ scissors curved</li> <li>▶ blade 18 mm</li> </ul>          | FL 330 mm              | 611-111-53               |  |
| METZENBAUM  | <ul style="list-style-type: none"> <li>▶ standard scissors straight</li> <li>▶ serrated</li> </ul>                      | FL 330 mm              | 611-112-53               |  |

## ENDOOR C – SCISSORS

▶ Ø 5,0 mm [single action jaw]

| Description         |  | Art.Nr. insert         |                          |   |
|---------------------|--|------------------------|--------------------------|---|
| HOOK SCISSORS       |  | FL 330 mm<br>FL 420 mm | 611-150-53<br>611-150-54 |  |
| PERITONEAL SCISSORS | <ul style="list-style-type: none"> <li>▶ straight</li> </ul> | FL 330 mm              | 611-155-53               |  |





# ENDOOR C – LAPAROSCOPY INSTRUMENT INSERTS

- ▶ Ø 5,0 mm inserts
- ▶ **double action jaw**



## ENDOOR C – GRASPING FORCEPS, DISSECTORS

▶ Ø 5,0 mm [double action jaw]

| Description                     |                                   | Art.Nr. insert |            |   |
|---------------------------------|-----------------------------------|----------------|------------|---|
| NON-TRAUMATIC                   | ▶ dissecting and grasping forceps | FL 330 mm      | 611-200-53 |    |
|                                 | ▶ pointed                         | FL 420 mm      | 611-200-54 |   |
| MARYLAND                        | ▶ dissecting and grasping forceps | FL 330 mm      | 611-202-53 |    |
|                                 | ▶ curved                          | FL 420 mm      | 611-202-54 |   |
| MARYLAND DILIP                  | ▶ dissecting and grasping forceps | FL 330 mm      | 611-204-53 |   |
|                                 | ▶ tapered                         | FL 420 mm      | 611-204-54 |   |
| MIXTER                          | ▶ dissecting and grasping forceps | FL 330 mm      | 611-205-53 |  |
|                                 | ▶ 90° angled                      |                |            |   |
| MC KENAN                        | ▶ non-traumatic                   | FL 330 mm      | 611-206-53 |  |
|                                 | ▶ straight                        |                |            |   |
| ALLIS                           | ▶ blade 38 mm                     | FL 330 mm      | 611-207-53 |  |
| DISSECTING AND GRASPING FORCEPS | ▶ fenestrated                     | FL 330 mm      | 611-210-53 |  |
|                                 | ▶ blade 16 mm                     | FL 420 mm      | 611-210-54 |   |
| ENDO CLINCH                     | ▶ fenestrated                     | FL 330 mm      | 611-212-53 |  |
|                                 | ▶ straight                        | FL 420 mm      | 611-212-54 |   |
| DOLPHIN                         | ▶ dissecting and grasping forceps | FL 330 mm      | 611-213-53 |  |
|                                 | ▶ straight                        |                |            |   |



## ENDOOR C – LAPAROSCOPY INSTRUMENT INSERTS

- ▶ Ø 5,0 mm inserts
- ▶ **double action jaw**



### ENDOOR C – GRASPING FORCEPS, DISSECTORS

▶ Ø 5,0 mm [double action jaw]

| Description      |                                | Art.Nr. insert         |                          |   |
|------------------|--------------------------------|------------------------|--------------------------|---|
| GRASPING FORCEPS | ▶ with spoon<br>▶ blunt        | FL 330 mm              | 611-214-53               |    |
| GRASPING FORCEPS | ▶ with spoon<br>▶ pointed      | FL 330 mm              | 611-215-53               |    |
| BABCOCK          | ▶ non-traumatic                | FL 330 mm<br>FL 420 mm | 611-300-53<br>611-300-54 |   |
| GRASPING FORCEPS | ▶ wave-style<br>▶ blade 24 mm  | FL 330 mm<br>FL 420 mm | 611-216-53<br>611-216-54 |  |
| JOHAN            | ▶ fenestrated<br>▶ blade 24 mm | FL 330 mm              | 611-218-53               |  |
| DE BAKEY         | ▶ blade 38 mm                  | FL 330 mm              | 611-220-53               |  |
| ALLIGATOR        | ▶ straight                     | FL 330 mm              | 611-224-53               |  |
| COBRA            | ▶ straight                     | FL 330 mm              | 611-226-53               |  |
| GRASPING FORCEPS | ▶ straight                     | FL 330 mm              | 611-228-53               |  |



# ENDOOR C – LAPAROSCOPY INSTRUMENT INSERTS

- ▶ Ø 5,0 mm inserts
- ▶ **single action jaw**



- ▶ for shaft 611-010-53 (FL 330 mm)
- ▶ for shaft 611-010-54 (FL 420 mm)

## ENDOOR C – GRASPING FORCEPS, DISSECTORS, BIOPSY ▶ Ø 5,0 mm [single action jaw]

| Description      |  | Art.Nr. insert                                     |  |
|------------------|--|--|--|
| JOHAN            | <ul style="list-style-type: none"> <li>▶ up curved</li> <li>▶ double fenestrated</li> <li>▶ blade 23 mm</li> </ul> | FL 330 mm<br>611-249-53                            |  |
| JOHAN            | <ul style="list-style-type: none"> <li>▶ fenestrated</li> <li>▶ blade 25 mm</li> </ul>                             | FL 330 mm<br>611-250-53<br>FL 420 mm<br>611-250-54 |  |
| JOHAN            | <ul style="list-style-type: none"> <li>▶ fenestrated</li> <li>▶ blade 38 mm</li> </ul>                             | FL 330 mm<br>611-251-53                            |  |
| MANHES           | <ul style="list-style-type: none"> <li>▶ fine teeth</li> </ul>   | FL 330 mm<br>611-252-53<br>FL 420 mm<br>611-252-54 |  |
| GRASPING FORCEPS | <ul style="list-style-type: none"> <li>▶ 1 x 2 teeth</li> </ul>  | FL 330 mm<br>611-253-53                            |  |
| GRASPING FORCEPS | <ul style="list-style-type: none"> <li>▶ wave style</li> <li>▶ blade 22 mm</li> </ul>                              | FL 330 mm<br>611-254-53                            |  |
| CLAW FORCEPS     | <ul style="list-style-type: none"> <li>▶ straight</li> <li>▶ blade 22 mm</li> </ul>                                | FL 330 mm<br>611-256-53                            |  |
| DISSECTOR        | <ul style="list-style-type: none"> <li>▶ strong curved</li> <li>▶ delicate serrated</li> </ul>                     | FL 330 mm<br>611-258-53                            |  |






## ENDOOR C – LAPAROCOPY INSTRUMENT INSERTS

- ▶ Ø 5,0 mm inserts
- ▶ **single action jaw**



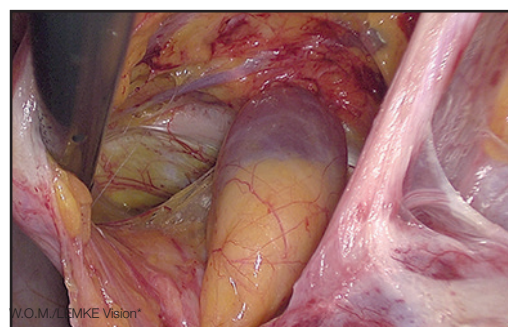
### ENDOOR C – GRASPING FORCEPS, DISSECTORS, BIOPSY ▶ Ø 5,0 mm [single action jaw]

| Description    |                     | Art.Nr. insert |  |
|----------------|---------------------|----------------|--|
| DISSECTOR      | ▶ straight          | FL 330 mm      |   |
|                | ▶ delicate serrated |                |  |
| BIOPSY FORCEPS | ▶ with pin          | FL 330 mm      |   |
|                |                     | FL 420 mm      |  |
| BIOPSY PUNCH   | ▶ straight          | FL 330 mm      |  |
|                |                     | FL 420 mm      |  |

TONTARRA provides a well assorted laparoscopic portfolio, including state-of-the art HD Laparoscopes in supreme quality which allow excellent detail recognition for secure laparoscopic diagnostic and therapeutic interventions.

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- a pediatric line
- excellent HD telescopes



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## ENDOOR C – STORAGE AND STERILISATION

- ▶ for laparoscopic instruments with Ø 3 mm / Ø 5 mm / Ø 10 mm

### ENDOOR C – STORAGE AND STERILISATION RACK

| Description   | Art.Nr.    |  |
|---|------------|--|
| <p>STORAGE AND STERILISATION RACK</p> <ul style="list-style-type: none"> <li>▶ for 10 x laparoscopy instruments (Ø 3 mm, Ø 5 mm, Ø 10 mm)</li> <li>▶ Size: L 470 x W 250 x H 150</li> <li>▶ to use in containers size 1/1mm with height starting at 200 mm</li> </ul> | 499-101-20 |  |

### CONTAINER BOX 1/1 BOTTOM ALUMINIUM

- ▶ L 595 X 275 X H 200 mm
- ▶ Locking device: bottom with flexible latch and lid with fixed axis

| Description   | Art.Nr.     |  |
|---|-------------|--|
| <ul style="list-style-type: none"> <li>▶ Bottom <b>perforated</b> (with Quick Change filter system for fast replacement of the filter)</li> </ul> | 260-106-20Y |  |
| <ul style="list-style-type: none"> <li>▶ Bottom <b>non perforated</b></li> </ul>  | 260-105-20Y |  |

### CONTAINER LIDS [different colours]

| Description  | Aluminium   | Polymer     | 1 | 2 | 3 | 4 | 5 | 6 |
|--|-------------|-------------|---|---|---|---|---|---|
| <ul style="list-style-type: none"> <li>▶ Lid perforated</li> </ul> | 260-100-0XY | 260-101-0XY |   |   |   |   |   |   |
| <ul style="list-style-type: none"> <li>▶ Safety lid</li> </ul>     | 260-103-0XY | 260-104-0XY |   |   |   |   |   |   |

Please put the color number instead of the "X" into the article number when ordering.

For more information on our accredited premium program for containers and accessories check out our Container Catalogue.



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\* Picture page 9: courtesy of W.O.M./LEMKE Vision



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