

TONTARRA

ENDOSCOPY



LAPAROSCOPY

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.



ICONS – OVERVIEW



Function length



LuerLock



Quick Lock



For use with sheath in size



Round sheath



Oval sheath



Drop style sheath



Continuous flow



Disposables

TABLE OF CONTENT


| | | | |
|---|---------|---|---------|
| ▶ Telescopes HD / HD+ / HD+2 Light guide cables & Connectors | 5 – 8 | ▶ HF-Instruments Bipolar | 47 – 52 |
| ▶ Laparoscopic Instruments HF instrument system Endoor C Non-HF instruments | 9 – 22 | ▶ Veres Cannula Trocar Systems | 53 – 64 |
| ▶ Clip Appliers | 23 – 26 | ▶ Pediatric Laparoscopy Ø 3.0 mm | 65 – 70 |
| ▶ Needle Holders Suture Sets | 27 – 34 | ▶ Disposables | 71 – 74 |
| ▶ Endo-Retractors | 35 – 38 | ▶ HF Generator HF Connection Cables | 75 – 78 |
| ▶ Suction-/Irrigation Systems | 39 – 42 | ▶ Accessories General Accessories; Maintenance, Storage & Sterilization; Suture Training Simulator | 79 – 84 |
| ▶ HF-Electrodes Monopolar | 43 – 46 | ▶ Index | 85 – 87 |





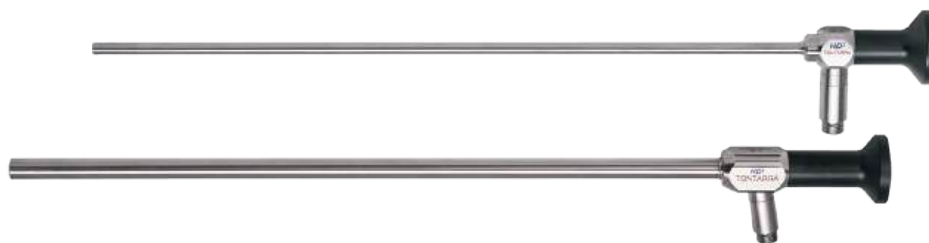
TELESCOPES

- ◀ HD
- ◀ HD+
- ◀ HD+2



LAPAROSCOPY TELESCOPES HD+, HD+2, HD+4

- ▶ Ø 5.5 mm / Ø 10.0 mm
- ▶ Compatible with most instrument- and camera systems



LAPAROSCOPES [autoclavable]

▶ Ø 5.5 mm/10.0 mm

| Description | | | Art. No. | Standard equipment for each operating theatre: laparoscopes of Ø 10 mm 0° and 30°, and Ø 5.5 mm 30° telescopes. |
|------------------|------------------|-----------|---------------|---|
| Laparoscope HD+ | ▶ Ø 5.5 mm; 0° | FL 300 mm | 601-005-00HD | |
| Laparoscope HD+2 | ▶ Ø 5.5 mm; 0° | FL 300 mm | 601-005-00HD2 | |
| Laparoscope HD+4 | ▶ Ø 5.5 mm; 0° | FL 300 mm | 601-005-00HD4 | |
| Laparoscope HD+ | ▶ Ø 5.5 mm; 30° | FL 300 mm | 601-005-30HD | |
| Laparoscope HD+2 | ▶ Ø 5.5 mm; 30° | FL 300 mm | 601-005-30HD2 | |
| Laparoscope HD+4 | ▶ Ø 5.5 mm; 30° | FL 300 mm | 601-005-30HD4 | |
| Laparoscope HD+ | ▶ Ø 5.5 mm; 45° | FL 300 mm | 601-005-40HD | |
| Laparoscope HD+2 | ▶ Ø 5.5 mm; 45° | FL 300 mm | 601-005-40HD2 | |
| Laparoscope HD+4 | ▶ Ø 5.5 mm; 45° | FL 300 mm | 601-005-40HD4 | |
| Laparoscope HD+ | ▶ Ø 10.0 mm; 0° | FL 330 mm | 601-010-00HD | |
| Laparoscope HD+2 | ▶ Ø 10.0 mm; 0° | FL 330 mm | 601-010-00HD2 | |
| Laparoscope HD+4 | ▶ Ø 10.0 mm; 0° | FL 330 mm | 601-010-00HD4 | |
| Laparoscope HD+ | ▶ Ø 10.0 mm; 30° | FL 330 mm | 601-010-30HD | |
| Laparoscope HD+2 | ▶ Ø 10.0 mm; 30° | FL 330 mm | 601-010-30HD2 | |
| Laparoscope HD+4 | ▶ Ø 10.0 mm; 30° | FL 330 mm | 601-010-30HD4 | |
| Laparoscope HD+ | ▶ Ø 10.0 mm; 45° | FL 330 mm | 601-010-40HD | |
| Laparoscope HD+2 | ▶ Ø 10.0 mm; 45° | FL 330 mm | 601-010-40HD2 | |
| Laparoscope HD+4 | ▶ Ø 10.0 mm; 45° | FL 330 mm | 601-010-40HD4 | |



0°



30°



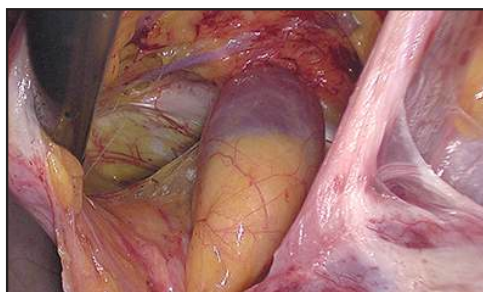
45°



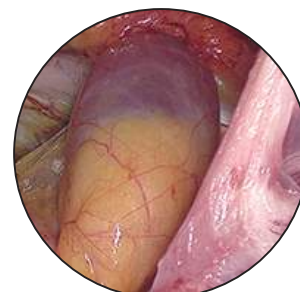
LAPAROSCOPY TELESCOPES HD, HD+, HD+2

- ▶ Compatible with most instrument- and camera systems

Our laparoscopes with their different sizes, viewing directions and compatibility with different instrument- and camera systems cover nearly the entire range of possible minimal-invasive abdominal surgeries.



W.O.M./LEMKE Vision



Excellent detail recognition – for secure laparoscopic diagnostic and therapeutic interventions.

TONTARRA HD+ HD2+ HD4+ telescopes for superb imaging results

The “TONTARRA telescopes with the PLUS” feature a cutting edge optical technology which result in:

- Exceptional brightness
- Brilliant, high contrast images even around the edges
- Optimum color rendering
- Outstanding optical transmission
- Scratch resistant (Sapphires at distal and proximal end)
- Masterful sealing technology: elaborated laser welding process in which all leakage paths are laser welded or soldered (no use of adhesives nor o-rings).

TONTARRA’s state-of-the-art HD+, HD+2 and HD+4 telescopes are among the best on the market. The new technologies will be standard of tomorrow’s imaging systems, featuring:

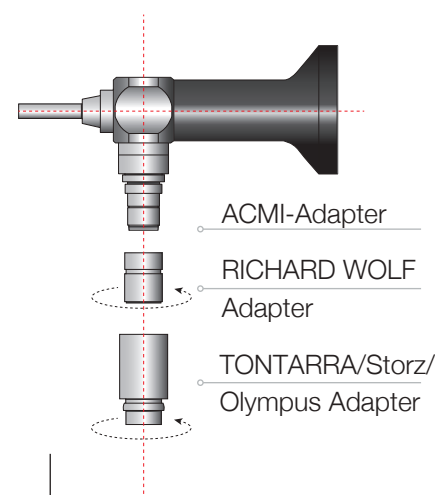
- A nearly constant resolution from center to edge
- More depth of field for minimal refocusing
- Even superior contrast for better detail recognition

TONTARRA’s recommendation for use:

- HD+ for HD & 2nd generation HD imaging systems
- HD+2 for 2nd generation & full HD imaging systems
- HD+4 for 4k imaging systems

The telescope body is of stainless steel, providing extra high durability and outstanding autoclavability for spotless hygiene (French cycle validated). The triple tube design warrants unique bending resistance. We recommend to use the HD+2 telescopes, which are optimized for 2nd generation & full HD imaging systems.

For further information please refer to our telescope catalogue, or contact us.



◀ HD+

◀ HD+2

◀ HD+4





TONTARRA HD+ HD2+ HD4+ telescopes are French Cycle validated (134°C; 18 min)



LIGHT GUIDE CABLES & CONNECTORS










FIBER LIGHT GUIDE CABLES

► Stability & resistance for a long life time

| Description | Standard Cold Light Line | HTT High Temperature Technology Line | HP High Performance Line |  |
|---|---|---|--------------------------|--|
| Cold light sources | HALOGEN <i>careful w/Xenon light!</i> | for all cold light sources (excellent light transmission) optimized for XENON | optimized for LED | |
| Sizes | Art. No.'s | | |  |
| Ø 4.9 x 1800 mm Length | | 540-815-18 | | |
| Ø 4.9 x 2300 mm Length | | 540-815-23 | | |
| Ø 4.9 x 3000 mm Length | | 540-815-30 | | |
| Ø 4.9 x 5000 mm Length | | 540-815-50 | | |
| Ø 3.5 x 1800 mm Length | 540-803-18 | 540-813-18 | 540-823-18 | |
| Ø 3.5 x 2300 mm Length | 540-803-23 | 540-813-23 | 540-823-23 | |
| Ø 3.5 x 3000 mm Length | 540-803-30 | 540-813-30 | 540-823-30 | |
| Ø 3.5 x 5000 mm Length | 540-803-50 | 540-813-50 | 540-823-50 | |
| Ø 2.5 x 1800 mm Length | | 540-812-18 | 540-822-18 | |
| Ø 2.5 x 2300 mm Length | | 540-812-23 | 540-822-23 | |
| Ø 2.5 x 3000 mm Length | | 540-812-30 | 540-822-30 | |
| Ø 2.5 x 5000 mm Length | | 540-812-50 | 540-822-50 | |
| Tube colours The Standard colour is grey. | Only available in grey | ● LL (Lilac) ● YW (Yellow) ● GN (Green) Colour Coding made easy: If you want to order one of the shown colours Lilac, Yellow or Green, please indicate the corresponding extensions shown in the column to the right (f.e. for a green cable add „GN“, the article number then reads 540-XXX-XXGN) | | |
| Colour of introduction piece | Black | Blue | White | |

Cables without connectors/for connectors please see below.

LIGHT CABLE CONNECTORS

| Projector-Side (light input) | | | Telescope-Side (light output) | | |
|------------------------------|------------|---|---------------------------------------|------------|---|
| Storz/Aesculap | 540-890-02 |  | TONTARRA/Storz/Aesculap/Olympus (old) | 540-880-02 |  |
| Olympus/ACMI | 540-890-10 |  | | 540-880-04 |  |
| Olympus new (switch) | 540-890-14 |  | Wolf/Dyonics snap | 540-880-13 |  |
| Richard Wolf | 540-890-04 |  | ACMI/British/Codman | 540-880-01 |  |
| ACMI/British/Codman | 540-890-01 |  | | | |



LAPAROSCOPIC INSTRUMENTS

To design and develop laparoscopic high precision instruments has been in the focus of our attention for the last 30 years – today we proudly provide the complete range of high-quality instruments needed in laparoscopic surgery.



TONTARRA'S PORTFOLIO INCLUDES

ENDOOR **C** LAPAROSCOPY HF INSTRUMENT SYSTEM:

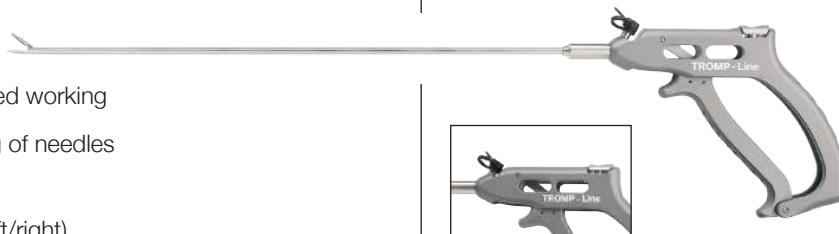
- ▶ Easy assembly and disassembly
- ▶ Easy cleaning (3 single parts & LuerLock flushing port)
- ▶ Ergonomic handle design for smooth maneuvering and a stress-free surgery
- ▶ Wide range of interchangeable high-precision Ø 5 mm and Ø 10 mm instrument inserts



The smooth-running ratchet can be easily activated and de-activated by simply rotating the selector.

NEEDLE HOLDER **TROMP-LINE**

- ▶ Super light weighted – to facilitate relaxed working
- ▶ High grasping strength – secure holding of needles and suture-materials
- ▶ Pistol handle suitable for both hands (left/right)
- ▶ Included overload protection



Simple locking mechanism with perfectly positioned release button.

NEEDLE HOLDER **LOFTLINE**

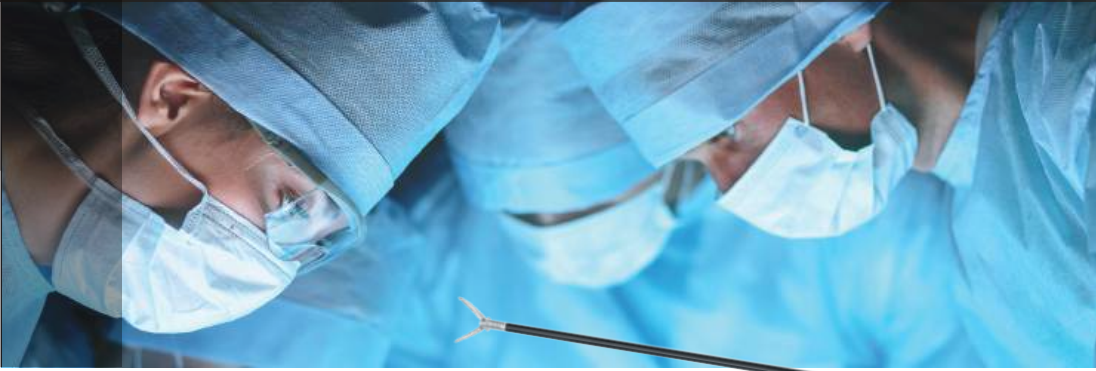
- ▶ Extremely light weighted – only 120 g vs. popular competitors' model of 256 g
- ▶ Superb balance and excellent ergonomics – specially designed needle holder for fatigue-proof and effortless handling
- ▶ Integrated overload protection – reliable holding of various needle types



Simple locking mechanism with perfectly positioned release button.



Design of the shaft plus LuerLock connection ensures an efficient cleaning.



LAPAROSCOPIC INSTRUMENTS

HF Instrument System

Non-HF Instruments

- ◀ ENDOOR C
- ◀ Forceps
- ◀ Scissors
- ◀ Special Instruments
Gynecology



**ENDOOR C –
YOUR KEY TO PERFECT LAPAROSCOPIC PERFORMANCE**

The high-end HF instrument system

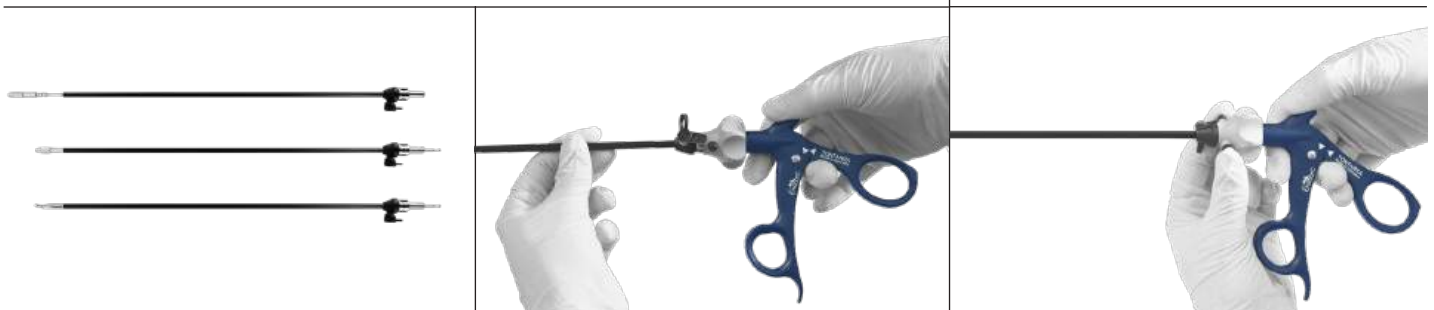
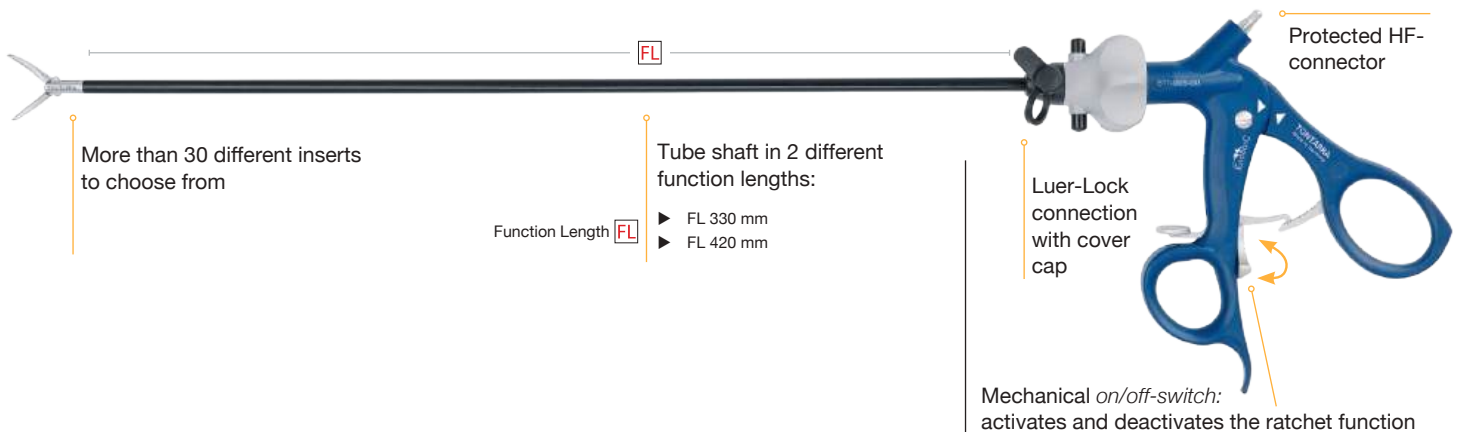
▶ **TECHNICAL SPECIFICATIONS**

- ▶ 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 LuerLock connection of the shaft
- ▶ Fully autoclavable (Easy cleaning LuerLock)
- ▶ Excellent practice-proven ergonomic design

- ▶ Easy assembly and disassembly
- ▶ Easy cleaning (3 single parts & LuerLock flushing port)
- ▶ Ergonomic handle design for smooth maneuvering and a stress-free surgery

- ▶ Wide range of interchangeable high-precision **Ø 5 mm** and **Ø 10 mm** instrument inserts

HANDLE AVAILABLE WITH OR WITHOUT RATCHET



- ▶ Insert to be introduced completely into outer shaft from front
- ▶ To lock the insert turn the insert at the distal tip by a quarter turn

- ▶ Open handle completely and insert the shaft with combined insert into the handle as far as possible
- ▶ Release the handle and push the shaft completely inside
- ▶ Lock the shaft by completely closing the handle

- ▶ Open handle completely and press and hold the two locking buttons
- ▶ Open handle further to push out the shaft and remove it completely



ENDOOR C LAPAROSCOPY HF INSTRUMENT SYSTEM

► For Ø 5.0 mm inserts



Art No. 611-001-00



Art No. 611-005-00




Art No. 611-006-00

ENDOOR C – HANDLES [for Ø 5.0 mm and 10.0 mm systems]



| Description | Art. No. insert | |
|---------------------------------------|-----------------|---|
| ENDOOR C handle ► without ratchet | 611-001-00 | <ul style="list-style-type: none"> · The ergonomic design fits to all hand-sizes and allows various ergonomic finger positions · The smooth-running ratchet can be easily activated and de-activated by simply rotating the selector · Fits both shaft lengths (see below) |
| ENDOOR C handle ► with ratchet | 611-005-00 | |
| ENDOOR C handle ► with FRENCH RATCHET | 611-006-00 | |

HF CONNECTION CABLES; MONOPOLAR for ENDOOR C System and HF electrodes

| Available for following units: | Diameter | 3.0 m | 5.0 m | Instrument side | |
|--------------------------------|----------|------------|------------|--|---|
| Martin; TONTARRA mod. PWT-400 | Ø 4.0 mm | 287-815-30 | 287-815-50 |  Round plug | For further information and pictures see the overview about cables in the chapter "HF Generator & Connection cables". |
| Erbe | Ø 5.0 mm | 287-820-30 | 287-820-50 | | |
| Valleylab | Ø 8.0 mm | 287-825-30 | 287-825-50 | | |



ENDOOR C – SHAFTS

► Ø 5.0 mm



| Description | Art. No. insert | |
|----------------------------|-----------------|---|
| ENDOOR C shaft ► FL 330 mm | 611-010-53 | <ul style="list-style-type: none"> · Mechanically safe and easy connection between shaft/insert and the bayonet-connection shaft/handle - free from backlash mechanisms for excellent tactile feedback · Accurate shaft coating with optimal insulation and superb sliding characteristics · With LuerLock flushing port, cover cap · O-ring inside to prevent gas loss |
| ENDOOR C shaft ► FL 420 mm | 611-010-54 | |



ENDOOR C LAPAROSCOPY HF INSTRUMENT INSERTS

- ▶ Ø 5.0 mm inserts
- ▶ Double action jaws/single action jaws



ENDOOR C – SCISSORS

▶ Ø 5.0 mm [double action jaws]

| Description | | Art. No. insert | |
|-------------|------------------------------|----------------------|--|
| METZENBAUM | ▶ standard scissors curved | | |
| | ▶ serrated | FL 330 mm 611-100-53 | |
| | ▶ blade 14 mm | FL 420 mm 611-100-54 | |
| METZENBAUM | ▶ standard scissors curved | | |
| | ▶ serrated | FL 330 mm 611-110-53 | |
| | ▶ blade 18 mm | FL 420 mm 611-110-54 | |
| METZENBAUM | ▶ standard scissors straight | | |
| | ▶ serrated | FL 330 mm 611-112-53 | |
| | ▶ blade 14 mm | | |

ENDOOR C – SCISSORS

▶ Ø 5.0 mm [single action jaws]

| Description | | Art. No. insert | |
|---------------------|------------|----------------------|--|
| HOOK SCISSORS | | FL 330 mm 611-150-53 | |
| | | FL 420 mm 611-150-54 | |
| PERITONEAL SCISSORS | ▶ straight | FL 330 mm 611-155-53 | |



ENDOOR C – LAPAROSCOPY HF INSTRUMENT INSERTS

- ▶ Ø 5.0 mm inserts
- ▶ Double action jaws



ENDOOR C – GRASPING FORCEPS; DISSECTORS

▶ Ø 5.0 mm [double action jaws]

| Description | | Art. No. insert | | |
|---------------------------------|-----------------------------------|-----------------|------------|--|
| NON-TRAUMATIC | ▶ dissecting and grasping forceps | FL 330 mm | 611-200-53 | |
| | ▶ pointed | FL 420 mm | 611-200-54 | |
| | ▶ straight | | | |
| 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 | |
| | ▶ curved | | | |
| 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 | ▶ jaw length 38 mm | FL 330 mm | 611-207-53 | |
| DISSECTING AND GRASPING FORCEPS | ▶ fenestrated | FL 330 mm | 611-210-53 | |
| | ▶ jaw length 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 HF INSTRUMENT INSERTS

- ▶ Ø 5.0 mm inserts
- ▶ Double action jaws



ENDOOR C – GRASPING FORCEPS; DISSECTORS

▶ Ø 5.0 mm [double action jaws]

| Description | Art. No. insert | |
|--|--|--|
| GRASPING FORCEPS ▶ with spoon ▶ blunt | FL 330 mm 611-214-53 | |
| GRASPING FORCEPS ▶ with spoon ▶ pointed | FL 330 mm 611-215-53 | |
| GRASPING FORCEPS ▶ wave-style ▶ jaw length 24 mm | FL 330 mm 611-216-53 FL 420 mm 611-216-54 | |
| JOHAN ▶ fenestrated ▶ jaw length 24 mm | FL 330 mm 611-218-53 FL 420 mm 611-218-54 | |
| DE BAKEY ▶ jaw length 38 mm | FL 330 mm 611-220-53 | |
| DE BAKEY ▶ jaw length 60 mm | FL 330 mm 611-223-53 FL 420mm 611-223-54 | |
| ALLIGATOR ▶ straight | FL 330 mm 611-224-53 | |
| COBRA ▶ straight ▶ 2 x 4 teeth | FL 330 mm 611-226-53 | |
| GRASPING FORCEPS ▶ straight | FL 330 mm 611-228-53 | |
| BABCOCK ▶ non-traumatic | FL 330 mm 611-300-53 FL 420 mm 611-300-54 | |



ENDOOR C – LAPAROSCOPY HF INSTRUMENT INSERTS

- ▶ Ø 5.0 mm inserts
- ▶ Single action jaws



ENDOOR C – GRASPING FORCEPS; DISSECTORS; BIOPSY ▶ Ø 5.0 mm [single action jaws]

| Description | | Art. No. insert | |
|------------------|---|--|--|
| JOHAN | <ul style="list-style-type: none"> ▶ up curved ▶ double fenestrated ▶ jaw length 23 mm | FL 330 mm 611-249-53 | |
| JOHAN | <ul style="list-style-type: none"> ▶ fenestrated ▶ jaw length 25 mm | FL 330 mm 611-250-53 FL 420 mm 611-250-54 | |
| JOHAN | <ul style="list-style-type: none"> ▶ fenestrated ▶ jaw length 38 mm | FL 330 mm 611-251-53 | |
| MANHES | <ul style="list-style-type: none"> ▶ fine teeth | FL 330 mm 611-252-53 FL 420 mm 611-252-54 | |
| GRASPING FORCEPS | <ul style="list-style-type: none"> ▶ 1 x 2 teeth | FL 330 mm 611-253-53 | |
| WAVE FORCEPS | <ul style="list-style-type: none"> ▶ wave style ▶ jaw length 22 mm | FL 330 mm 611-254-53 | |
| CLAW FORCEPS | <ul style="list-style-type: none"> ▶ straight ▶ jaw length 22 mm ▶ 2 x 3 teeth | FL 330 mm 611-256-53 | |
| DISSECTOR | <ul style="list-style-type: none"> ▶ strong curved ▶ delicate serrated | FL 330 mm 611-258-53 | |






ENDOOR C – LAPAROSCOPY HF INSTRUMENT INSERTS

- ▶ Ø 5.0 mm inserts
- ▶ Single action jaws



ENDOOR C – GRASPING FORCEPS; DISSECTORS; BIOPSY ▶ Ø 5.0 mm [single action jaws]

| Description | | Art. No. insert | | |
|----------------|---------------------|-----------------|------------|---|
| DISSECTOR | ▶ straight | FL 330 mm | 611-260-53 |  |
| | ▶ delicate serrated | | | |
| BIOPSY FORCEPS | ▶ with pin | FL 330 mm | 611-350-53 |  |
| | | FL 420 mm | 611-350-54 | |
| BIOPSY PUNCH | ▶ straight | FL 330 mm | 611-352-53 |  |
| | | FL 420 mm | 611-352-54 | |



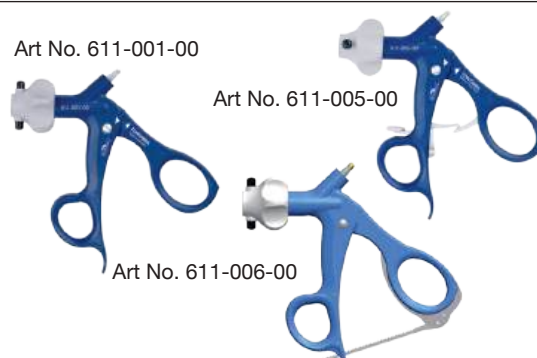
ENDOOR C LAPAROSCOPY HF INSTRUMENT SYSTEM

- ▶ Ø 10.0 mm
- ▶ Double action jaw/single action jaws

ENDOOR C – HANDLES



| Description | Art. No. insert |
|---------------------------------------|-----------------|
| ENDOOR C handle ▶ without ratchet | 611-001-00 |
| ENDOOR C handle ▶ with ratchet | 611-005-00 |
| ENDOOR C handle ▶ with FRENCH RATCHET | 611-006-00 |



ENDOOR C – SHAFT

▶ Ø 10.0 mm



| Description | Art. No. insert |
|----------------------|----------------------|
| SHAFT ▶ insulated | FL 330 mm 611-020-93 |

ENDOOR C – GRASPING FORCEPS; PUNCH

▶ Ø 10.0 mm

| Description | Art. No. insert |
|---|----------------------|
| CLAW FORCEPS ▶ 2 x 3 teeth ▶ single action jaws | FL 330 mm 611-400-93 |
| SPOON FORCEPS ▶ single action jaws | FL 330 mm 611-406-93 |
| MARYLAND FORCEPS ▶ 90° angled ▶ double action jaws | FL 330 mm 611-425-93 |
| BABCOCK FORCEPS ▶ atraumatic ▶ double action jaws | FL 330 mm 611-435-93 |
| MIXTER GRASPING FORCEPS ▶ 90° angled ▶ double action jaws | FL 330 mm 611-429-93 |





LAPAROSCOPY INSTRUMENTS

- ▶ Forceps with wave ring handle
- ▶ With cleaning channel & LuerLock connector
- ▶ One piece (non-detachable)



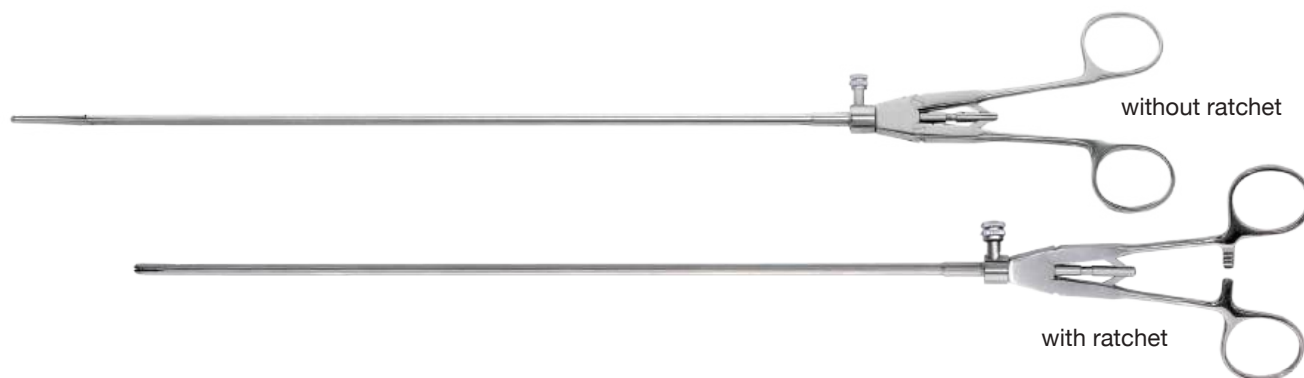
FORCEPS WITH WAVE RING HANLDE ▶ with or without ratchet **FL** 330 mm **LL**

| ▶ Diameter Ø 5.0 mm ▶ with cleaning channel & LuerLock connector | without ratchet | with ratchet | |
|---|-----------------|-----------------|--|
| | Art. No. | Art. No. | |
| Description | Art. No. | Art. No. | |
| GRASPING FORCEPS CURVED ▶ jaw length 22 mm | 612-105-53 | 612-205-53 | |
| GRASPING FORCEPS NON TRAUMATIC | 612-110-53 | 612-210-53 | |
| MAHNES GRASPING FORCEPS | 612-115-53 | 612-215-53 | |
| DORSEY GRASPING FORCEPS ▶ fenestrated ▶ jaw length 16 mm | 612-120-53 | 612-220-53 | |
| DORSEY MODIFIED GRASPING FORCEPS ▶ fenestrated ▶ jaw length 12 mm | 612-125-53 | 612-225-53 | |
| DORSEY INTESTINAL GRASPING FORCEPS ▶ fenestrated ▶ jaw length 30 mm | 612-130-53 | 612-230-53 | |



LAPAROSCOPY INSTRUMENTS

- ▶ Forceps with axial ring handle
- ▶ With cleaning channel & LuerLock connector
- ▶ One piece (non-detachable)



FORCEPS WITH AXIAL RING HANDLE ▶ with or without ratchet **FL** 330 mm

LL

| ▶ Diameter Ø 5.0 mm ▶ with cleaning channel & LuerLock connector | without ratchet | with ratchet | |
|---|-----------------|--------------|--|
| | Art. No. | Art. No. | |
| GRASPING FORCEPS CURVED ▶ jaw length 22 mm | - | 612-405-53 | |
| GRASPING FORCEPS NON TRAUMATIC | - | 612-410-53 | |
| MAHNES GRASPING FORCEPS | - | 612-415-53 | |
| DORSEY GRASPING FORCEPS ▶ fenestrated ▶ jaw length 16 mm | 612-320-53 | 612-420-53 | |
| DORSEY MODIFIED GRASPING FORCEPS ▶ fenestrated ▶ jaw length 12 mm | 612-325-53 | 612-425-53 | |
| DORSEY INTESTINAL GRASPING FORCEPS ▶ fenestrated ▶ jaw length 30 mm | 612-330-53 | 612-430-53 | |




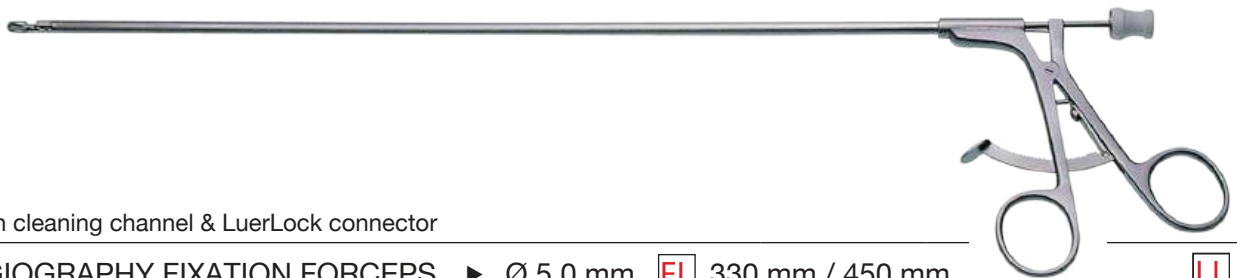
LAPAROSCOPY INSTRUMENTS

- ▶ Forceps & Scissors
- ▶ With cleaning channel & LuerLock connector
- ▶ One piece (non-detachable)





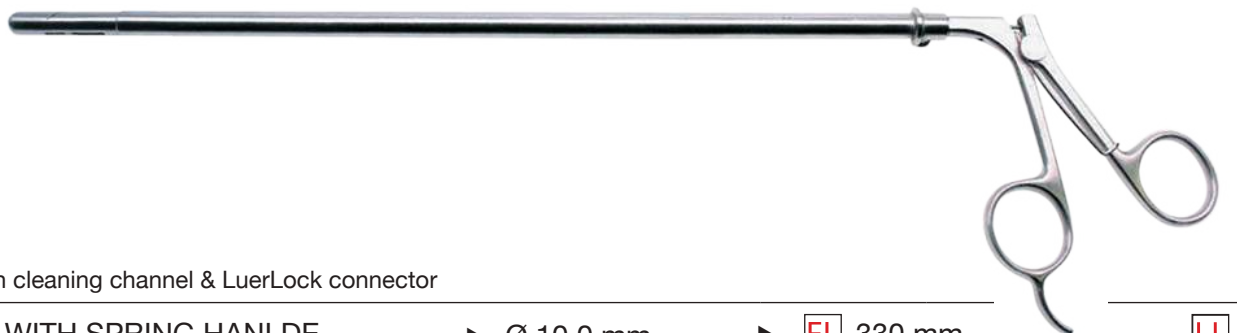
▶ with cleaning channel & LuerLock connector

| METZENBAUM MODIFIED SCISSORS | ▶ Ø 5.0 mm | FL 330 mm | LL |
|-------------------------------------|------------|------------------|--|
| Description | Art. No. | | |
| SCISSORS CURVED ▶ blade 18 mm | 612-135-53 | |  double action |





▶ with cleaning channel & LuerLock connector

| CHOLANGIOGRAPHY FIXATION FORCEPS | ▶ Ø 5.0 mm | FL 330 mm / 450 mm | LL |
|--|--------------------------|---------------------------|---|
| Description | Art. No. | | |
| CHOLANGIOGRAPHY FIXATION FORCEPS for Ø 2.0 mm Cholangiography Catheter ▶ FL 330 mm ▶ FL 450 mm | 612-990-53 612-992-53 | |  |
| SEALING CAP for instrument channel; 10 pcs./box | 499-199-00 | |  |



▶ with cleaning channel & LuerLock connector

| FORCEPS WITH SPRING HANLDE | ▶ Ø 10.0 mm | ▶ FL 330 mm | LL |
|-----------------------------------|-------------|--------------------|---|
| Description | Art. No. | | |
| SPOON FORCEPS | 612-540-93 | |  |
| CLAW FORCEPS | 612-550-93 | |  |




LAPAROSCOPY INSTRUMENTS

► Speciality instruments for Gynecology







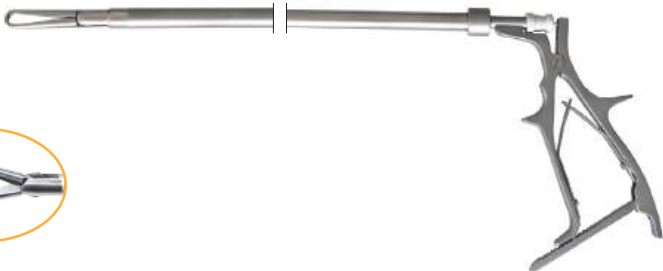




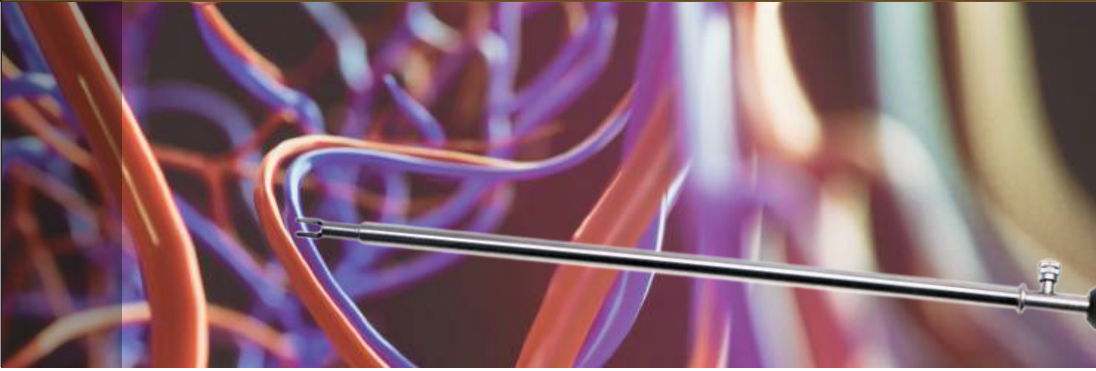
MYOMA DRILL

► 5 / 10 mm **FL** 330 / 420 mm

| Description | Diameter | FL | Art. No. |
|--|-----------|--------|------------|
| MYOMA DRILL  | Ø 5.0 mm | 330 mm | 587-205-32 |
| | | 420 mm | 587-205-42 |
| | Ø 10.0 mm | 330 mm | 587-210-33 |
| | | 420 mm | 587-210-42 |

FORCEPS; one piece-instruments (non-detachable) ► 5 / 10 mm **FL** 420 mm

| Description | Diameter | Art. No. |
|--|-----------|------------|
| TENACULUM-FORCEPS    | Ø 5.0 mm | 587-220-05 |
| CLAW FORCEPS    | Ø 10.0 mm | 587-220-10 |
| TENACULUM-FORCEPS    | Ø 10.0 mm | 587-225-10 |



CLIP APPLIERS



CLIP APPLIERS

- ▶ Ø 10.0 mm
- ▶ Rotatable
- ▶ With cleaning channel & LuerLock connector



CLIP APPLIERS **rotatable** ▶ Ø 10.0 mm **FL** 320 mm
 ▶ for ETHICON / WECK / SLS / HORIZON Clips

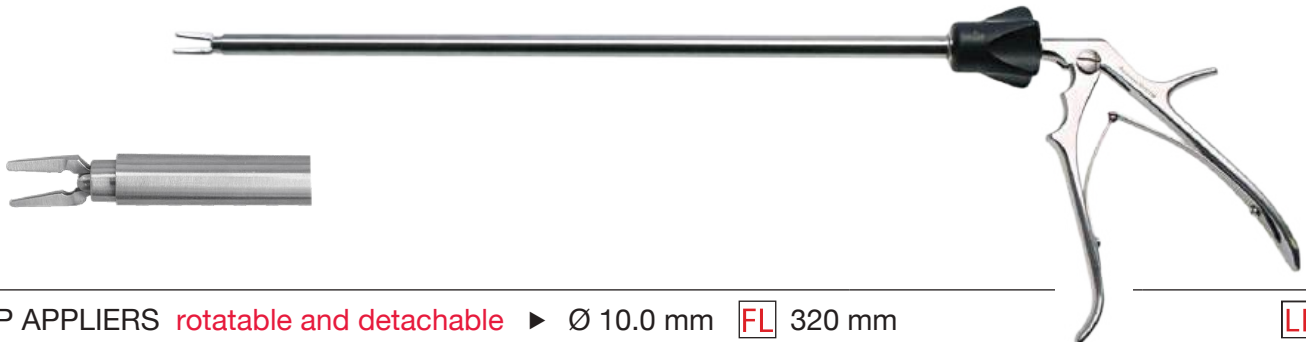
LL

| Specification | Size | Art. No. |
|-------------------|--------------|------------|
| For ETHICON CLIPS | Small | 612-930-00 |
| | Medium | 612-930-01 |
| | Medium-large | 612-930-02 |
| | Large | 612-930-03 |
| For WECK CLIPS | Small | 612-932-00 |
| | Medium | 612-932-01 |
| | Medium-large | 612-932-02 |
| For SLS CLIPS | Small | 612-934-00 |
| | Medium | 612-934-01 |
| | Medium-large | 612-934-02 |
| | Large | 612-934-03 |
| For HORIZON CLIPS | Small | 612-936-00 |
| | Medium | 612-936-01 |
| | Medium-large | 612-936-02 |



CLIP APPLIERS

- ▶ Ø 10.0 mm
- ▶ Rotatable and detachable
- ▶ With cleaning channel & LuerLock connector



CLIP APPLIERS rotatable and detachable ▶ Ø 10.0 mm **FL** 320 mm
 ▶ for ETHICON / WECK / SLS / HORIZON Clips

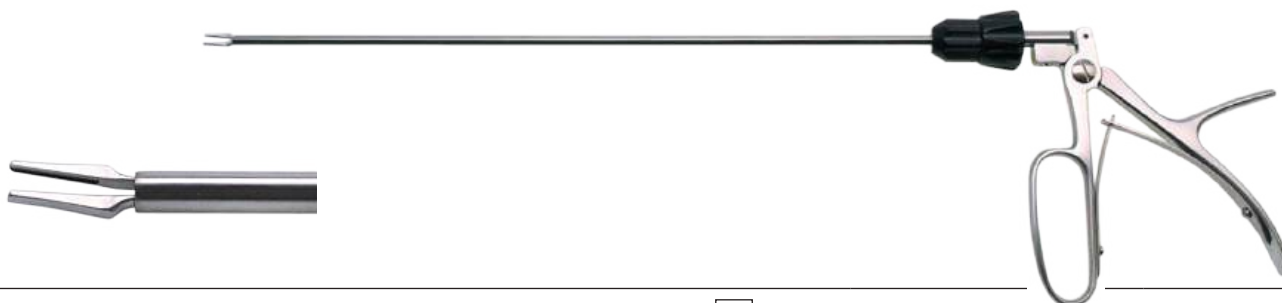


| Specification | Size | Art. No. |
|-------------------|--------------|------------|
| For ETHICON CLIPS | Small | 612-910-00 |
| | Medium | 612-910-01 |
| | Medium-large | 612-910-02 |
| | Large | 612-910-03 |
| For WECK CLIPS | Small | 612-912-00 |
| | Medium | 612-912-01 |
| | Medium-large | 612-912-02 |
| For SLS CLIPS | Small | 612-914-00 |
| | Medium | 612-914-01 |
| | Medium-large | 612-914-02 |
| | Large | 612-914-03 |
| For HORIZON CLIPS | Small | 612-916-00 |
| | Medium | 612-916-01 |
| | Medium-large | 612-916-02 |



CLIP APPLIERS

- ▶ Ø 5.0 mm
- ▶ Rotatable and detachable
- ▶ With cleaning channel & LuerLock connector



CLIP APPLIERS **rotatable and detachable** ▶ Ø 5.0 mm **FL** 320 mm **LL**
 ▶ for ETHICON / PILLING / WECK / HORIZON Clips

| Specification | Size | Art. No. |
|-------------------|--------|------------|
| FOR ETHICON CLIPS | Small | 612-940-00 |
| | Medium | 612-940-01 |
| For PILLING CLIPS | Small | 612-942-00 |
| | Medium | 612-942-01 |
| For WECK CLIPS | Small | 612-944-00 |
| | Medium | 612-944-01 |
| For HORIZON CLIPS | Small | 612-946-00 |
| | Medium | 612-946-01 |



NEEDLE HOLDERS

SUTURE SETS

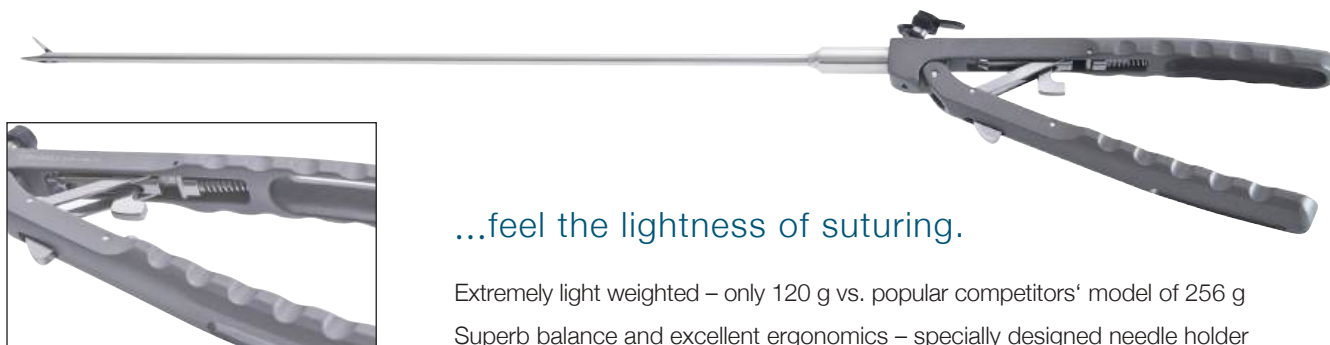


LOFTLINE Needle holder



NEEDLE HOLDER LOFTLINE

▶ With LuerLock connector



...feel the lightness of suturing.

Extremely light weighted – only 120 g vs. popular competitors' model of 256 g
 Superb balance and excellent ergonomics – specially designed needle holder for fatigue-proof and effortless handling
 Integrated overload protection – reliable holding of various needle types

Simple locking mechanism with perfectly positioned release button

NEEDLE HOLDER LOFTLINE

▶ Ø 5.0 mm **FL** 330/450 mm ▶ Ø 3.0 mm **FL** 290 mm **LL**

| Description | | Art. No. | | |
|---|----------|----------|------------|--|
| TC NEEDLE HOLDER ▶ straight | ▶ 330 mm | Ø 5.0 mm | 614-100-53 | |
| | ▶ 450 mm | Ø 5.0 mm | 614-100-54 | |
| | ▶ 290 mm | Ø 3.0 mm | 614-100-33 | |
| TC NEEDLE HOLDER ▶ curved left | ▶ 330 mm | Ø 5.0 mm | 614-110-53 | |
| | ▶ 450 mm | Ø 5.0 mm | 614-110-54 | |
| | ▶ 290 mm | Ø 3.0 mm | 614-110-33 | |
| TC NEEDLE HOLDER ▶ curved right | ▶ 330 mm | Ø 5.0 mm | 614-115-53 | |
| | ▶ 450 mm | Ø 5.0 mm | 614-115-54 | |
| | ▶ 290 mm | Ø 3.0 mm | 614-115-33 | |
| NEEDLE HOLDER ▶ diamond-dusted ▶ convex/concave | ▶ 330 mm | Ø 5.0 mm | 614-120-53 | |
| | ▶ 450 mm | Ø 5.0 mm | 614-120-54 | |
| TC NEEDLE HOLDER ▶ „S-shaped“ | ▶ 330 mm | Ø 5.0 mm | 614-135-53 | |
| | ▶ 450 mm | Ø 5.0 mm | 614-135-54 | |
| NEEDLE RECEIVING FORCEPS ▶ 1 x 2 teeth | ▶ 330 mm | Ø 5.0 mm | 614-195-53 | |
| | ▶ 450 mm | Ø 5.0 mm | 614-195-54 | |

Recommended needle & suturing material

Needle holder with TC-plates

- 0.3 mm (Ø 3 mm needle holder): For delicate needles and suturing material; thickness up to 8/0
- 0.4 mm (Ø 5 mm needle holder): For delicate needles and suturing material; thickness 4/0 – 6/0

Needle holder with diamond-dust jaws

convex/concave: For very delicate suturing material; thickness 6/0 – 11/0

[Common needle sizes: RB (Ethicon); CV-23 (USSC); SH (Ethicon); EN-(Ski), V 20]

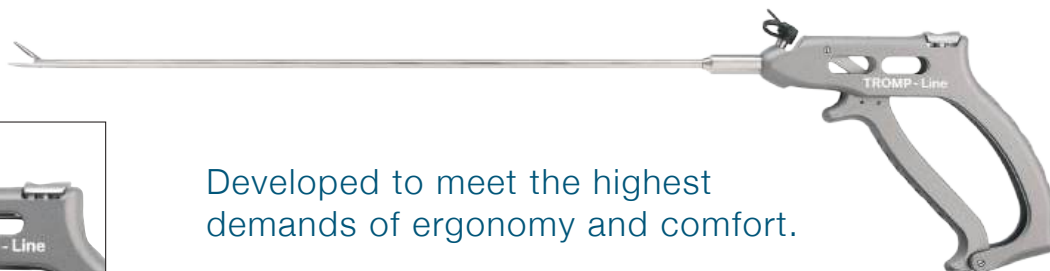


NEEDLE HOLDER TROMP-LINE

- ▶ With LuerLock connector



Simple locking mechanism with perfectly positioned release button.








Developed to meet the highest demands of ergonomics and comfort.

- Super light weighted – to facilitate relaxed working
- High grasping strength – secure holding of needles and suture materials
- Pistol handle suitable for both hands (left/right)
- Included overload protection

NEEDLE HOLDER TROMP-LINE

▶ Ø 5.0 mm ▶ FL 330 mm



| Description | Art. No. | |
|---|------------|---|
| TC NEEDLE HOLDER ▶ straight | 614-500-53 |  |
| TC NEEDLE HOLDER ▶ curved left | 614-510-53 |  |
| TC NEEDLE HOLDER ▶ curved right | 614-515-53 |  |
| NEEDLE HOLDER ▶ diamond dusted ▶ convex/concave | 614-520-53 |  |
| TC NEEDLE HOLDER ▶ „S-shaped“ | 614-535-53 |  |

Recommended needle & suturing material

Needle holder with TC-plates

0.4 mm (Ø 5 mm needle holder): For delicate needles and suturing material; thickness 4/0 – 6/0

Needle holder with diamond-dust jaws

convex/concave: For very delicate suturing material; thickness 6/0 – 11/0

[Common needle sizes: RB (Ethicon); CV-23 (USSC); SH (Ethicon); EN-(Ski), V 20]



NEEDLE HOLDERS

- ▶ With axial ring handle
- ▶ With axial wave ring handle

All needle holders shown below have a cleaning channel and are easily to clean thanks to LuerLock connectors **LL**

A NEEDLE HOLDER with **AXIAL WAVE RING HANDLE** with ratchet

- ▶ Ø 5.0 mm **FL** 330 / 450 mm



B NEEDLE HOLDER with **AXIAL RING HANDLE** with ratchet

- ▶ Ø 5.0 mm **FL** 330 / 450 mm



NEEDLE HOLDERS ▶ Ø 5.0 mm **FL** 330/450 mm

| Description | FL | Handle A | Handle B | Information |
|--------------------------------|----------|-----------------|-----------------|-------------|
| TC NEEDLE HOLDER | ▶ 330 mm | 614-205-53 | 614-405-53 | |
| ▶ straight | ▶ 450 mm | 614-205-54 | 614-405-54 | |
| TC NEEDLE HOLDER | ▶ 330 mm | 614-210-53 | 614-410-53 | |
| ▶ curved left | ▶ 450 mm | 614-210-54 | 614-410-54 | |
| TC NEEDLE HOLDER | ▶ 330 mm | 614-215-53 | 614-415-53 | |
| ▶ curved right | | | | |
| NEEDLE HOLDER | ▶ 330 mm | 614-220-53 | 614-420-53 | |
| ▶ convex/concave | | | | |
| TC NEEDLE HOLDER | ▶ 330 mm | 614-225-53 | 614-425-53 | |
| ▶ straight; short | | | | |
| NEEDLE RECEIVING FORCEPS | ▶ 330 mm | 614-230-53 | - | |
| ▶ straight; opening angled 90° | | | | |






SUTURE SETS

► Knot pushers & graspers




available with 3 different tips

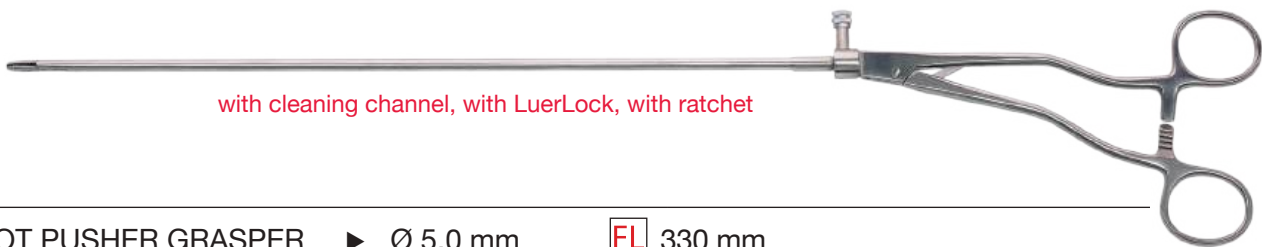
KNOT PUSHERS ► Ø 4.0 / 4.5 mm FL 330 mm

| | | |
|---|--|---|
|  |  |  |
| WITH OPEN EYE | WITH CLOSED EYE | WITH SLIT |
| Ø 4.0 mm | Ø 4.0 mm | Ø 4.5 mm |
| 618-100-43 | 618-105-43 | 618-110-43 |





KNOT PUSHER with 4 PINS ► Ø 5.0 mm FL 330 mm

| | |
|-------------|---|
| WITH 4 PINS |  |
| Ø 5.0 mm | |
| 618-180-53 | |

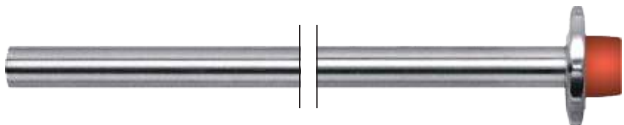


with cleaning channel, with LuerLock, with ratchet

KNOT PUSHER GRASPER ► Ø 5.0 mm FL 330 mm LL

| | |
|---|---|
|  |  |
| GRASPER FENESTRATED | NEEDLE RECEIVING FORCEPS |
| Ø 5.0 mm | Ø 5.0 mm |
| 612-295-53 | 612-195-53 |

REDUCER SLEEVE

| | |
|---|--|
| To use with all knot pushers and graspers |  |
| Ø 11.0 – 5.5 mm | |
| 626-182-95 | |



SUTURE SETS

- ▶ Suture fascia fix forceps



NEEDLE RECEIVING FORCEPS ▶ Ø 5.0 mm **FL** 330 mm **LL**

| Description | Art. No. |
|--|------------|
| NEEDLE RECEIVING FORCEPS ▶ axial handle straight ▶ without ratchet | 612-395-53 |



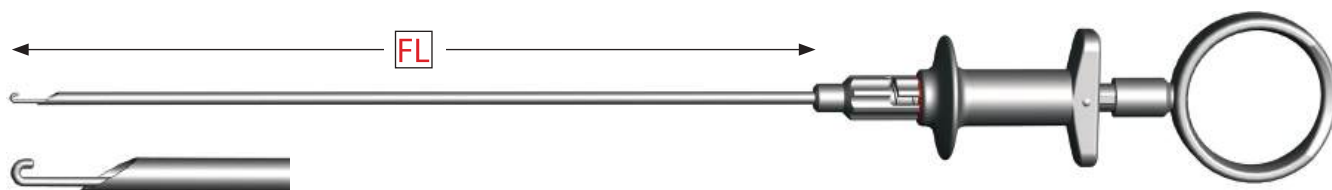
SUTURE FASCIA FIX FORCEPS ▶ Ø 3.0 mm **FL** 170 / 200 mm **LL**

| Description | Art. No. |
|--|------------|
| SUTURE FASCIA FIX FORCEPS ▶ non-rotatable ▶ 170 mm | 618-200-03 |
| SUTURE FASCIA FIX FORCEPS ▶ rotatable ▶ 200 mm | 618-201-03 |



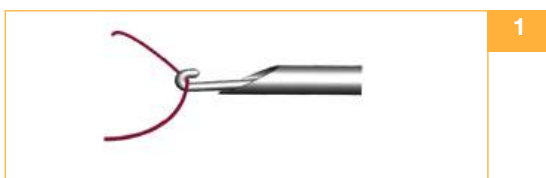
SUTURE SETS

- ▶ Fascia closure device

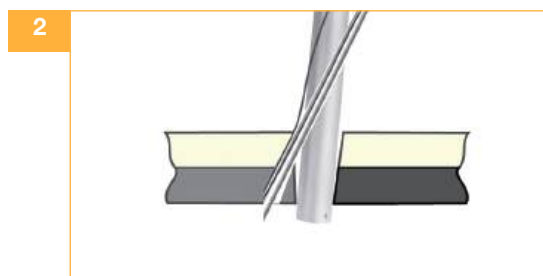


FASCIA CLOSURE DEVICE („FCD“) ▶ Ø 2.3 mm **FL** 140 mm

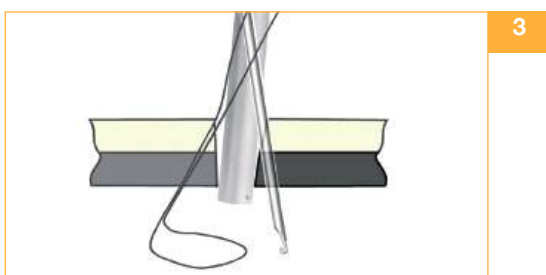
| Description | Art. No. |
|-----------------------|------------|
| FASCIA CLOSURE DEVICE | 618-195-20 |



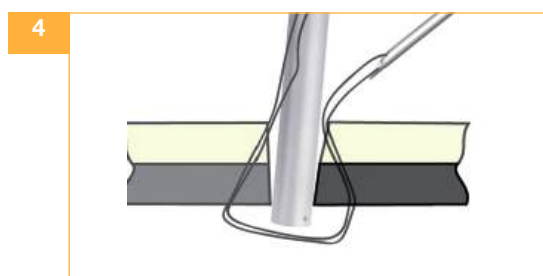
Push down the ring handle so that the needle is positioned outside the cannula. Set the thread into the "FCD" and make sure that the thread is positioned in the middle. Pull back the ring handle with your thumb so that the catcher hook is retracted into the cannula.



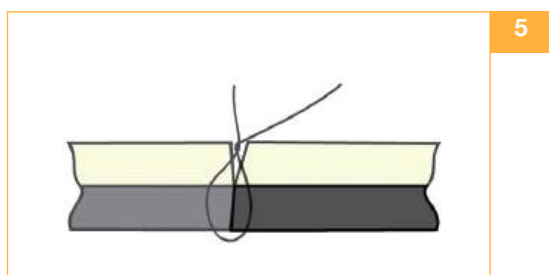
Penetrate the "FCD" through the subcutaneous tissue (using the incision of the trocar) in the abdominal wall. Make sure that the catcher hook is always retracted during this procedure. After that, push down the ring handle so that the catcher hook comes out of the cannula. Now you can release the thread. 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.







ENDO-RETRACTORS



ENDO-RETRACTORS

- ▶ Articulating Endo-Retractors
- ▶ With cleaning channel and LuerLock connector



RETRACTOR TRIANGULAR ▶ Ø 5.0 mm **FL** 360 mm **LL**

| Description | Art. No. |
|--------------------------|------------|
| ▶ ARTICULATING RETRACTOR | 616-305-53 |



RETRACTOR HOOKED ▶ Ø 5.0 mm **FL** 360 mm **LL**

| Description | Art. No. |
|--------------------------|------------|
| ▶ ARTICULATING RETRACTOR | 616-310-53 |



ENDO-RETRACTORS

- ▶ Bendable Endo-Retractors
- ▶ With cleaning channel and LuerLock connector



1 FINGER RETRACTOR; fenestrated ▶ Ø 5.0 mm **FL** 340 mm / 450 mm **LL**

| Description | Art. No. |
|-----------------------|------------|
| ▶ bendable; FL 340 mm | 616-105-53 |
| ▶ bendable; FL 450 mm | 616-105-54 |



3 FINGER RETRACTOR ▶ Ø 5.0 mm **FL** 340 mm **LL**

| Description | Art. No. |
|------------------|------------|
| ▶ LIVER ELEVATOR | 616-110-53 |
| ▶ bendable | |



5 FINGER RETRACTOR ▶ Ø 10.0 mm **FL** 340 mm **LL**

| Description | Art. No. |
|------------------|------------|
| ▶ LIVER ELEVATOR | 616-120-93 |
| ▶ bendable | |



ENDO-RETRACTORS

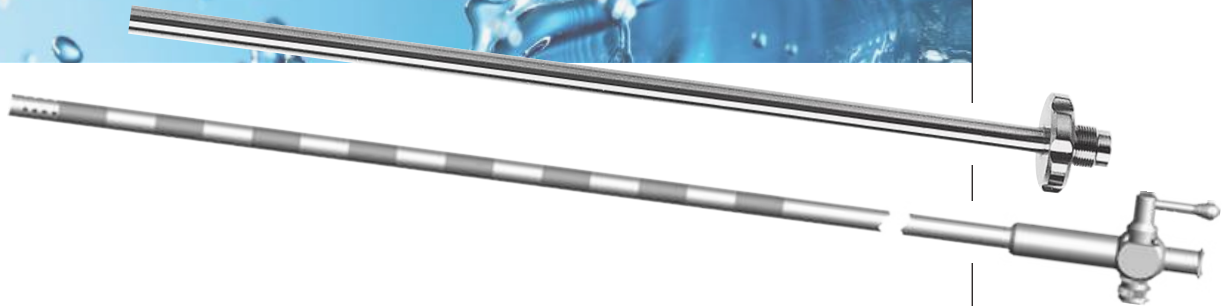
- ▶ Bendable Endo-Retractors
- ▶ Detachable; Model with and model without LuerLock connector



| 3 FINGER RETRACTOR | | ▶ Ø 5.0 mm | FL 330 mm | LL |
|---|--|------------|------------------|-----------|
| Description | | | Art. No. | |
| <ul style="list-style-type: none"> ▶ LIVER ELEVATOR ▶ with LuerLock connector | | | 616-205-53 | |



| 5 FINGER RETRACTOR | | ▶ Ø 10.0 mm | FL 330 mm | |
|--|--|-------------|------------------|--|
| Description | | | Art. No. | |
| <ul style="list-style-type: none"> ▶ LIVER ELEVATOR ▶ bendable ▶ without LuerLock connector | | | 616-220-53 | |



SUCTION- / IRRIGATION SYSTEMS



SUCTION- / IRRIGATION SYSTEMS

- ▶ System with trumpet valves
- ▶ System with sliding valves or trumpet valves

SUCTION- / IRRIGATION TUBE

| Description | | LL |
|----------------------------------|-----------|------------|
| SUCTION IRRIGATION TUBE Ø 5.0 mm | FL 330 mm | 620-030-00 |
| with LUERLOCK STOPCOCK | | |
| | | |

SUCTION- / IRRIGATION HANDLE SYSTEM with TRUMPET VALVES

| Description | | LL |
|--|---|------------|
| SUCTION IRRIGATION HANDLE with LARGE TUBE CONNECTOR ; maximum suction flow: Ø 10.0 mm | SUCTION IRRIGATION HANDLE with SMALL TUBE CONNECTOR ; maximum suction flow: Ø 6.5 mm | |
| | | |
| 620-020-00 | 620-020-10 | |
| Description | | |
| SUCTION IRRIGATION TUBE Ø 5.0 mm | FL 330 mm | 620-020-53 |
| | | |
| SUCTION IRRIGATION TUBE Ø 10.0 mm | FL 330 mm | 620-020-93 |
| | | |



SUCTION- / IRRIGATION SYSTEMS

- ▶ System with sliding valves or trumpet valves

SUCTION- / IRRIGATION HANDLE SYSTEM with **SLIDING VALVE** or **TRUMPET VALVES**

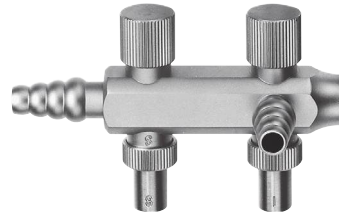
Description

SUCTION IRRIGATION HANDLE with **SLIDING VALVE**;
tube connectors



620-025-00

SUCTION IRRIGATION HANDLE with **TRUMPET VALVES**;
tube connectors



620-025-09

Description

SUCTION IRRIGATION TUBES Ø 5.0 mm **FL** 330 mm



Available models of suction-/irrigation tubes:

TIP with 16 holes (4 x 4)



620-025-13

TIP with 48 holes (8 x 6)



620-025-23

TIP BLUNT with holes (4 x 6)



620-025-33

NEEDLE TIP



620-025-43

TIP with aqua dissection



620-025-53

TIP BLUNT with 12 holes



620-025-63

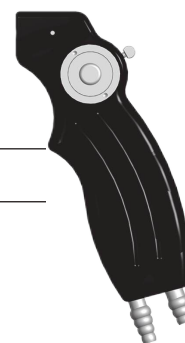
SUCTION- / IRRIGATION SYSTEMS

- ▶ Suction-/ Irrigation – HF combination system
- ▶ System with **pistol handle** style or **trumpet valves**



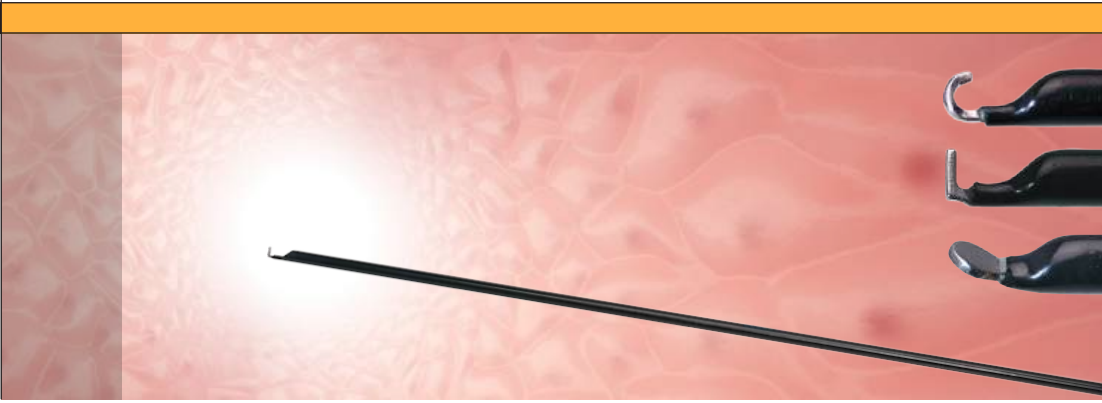
SUCTION- / IRRIGATION PISTOL "HANDLE-STYLE" or TRUMPET VALVES

| Description | Art. No. | |
|--|------------|------------|
| SUCTION IRRIGATION PISTOL "HANDLE-STYLE"; LL with LuerLock; maximum suction flow: Ø 4.4 mm | 620-015-00 | |
| SUCTION IRRIGATION HANDLE with trumpet valves; tube connector | 620-015-10 | |
| Description | | |
| SUCTION IRRIGATION TUBE Ø 3.0 mm FL 330 mm | | 620-015-33 |
| | | |
| SUCTION IRRIGATION TUBE Ø 5.0 mm FL 330 mm | | 620-015-53 |
| | | |
| SUCTION IRRIGATION TUBE Ø 10.0 mm FL 330 mm | | 620-015-93 |
| | | |



SUCTION- / IRRIGATION / HF COMBINATION SYSTEM; PISTOL "HANDLE-STYLE"

| Description | Art. No. | | |
|--|------------|------------|------------|
| SUCTION IRRIGATION PISTOL; PREMIUM VERSION; tube connectors; maximum suction flow: Ø 5.2 mm (Adapter for electrodes see following chapter) | 620-010-00 | | |
| Description | | | |
| SUCTION IRRIGATION TUBE Ø 3.0 mm FL 330 mm | | | 620-010-33 |
| | | | |
| SUCTION IRRIGATION TUBE Ø 5.0 mm FL 330 mm | | 620-010-53 | |
| | | | |
| SUCTION IRRIGATION TUBE Ø 10.0 mm FL 330 mm | | 620-010-93 | |
| | | | |



HF-ELECTRODES MONOPOLAR



HF-ELECTRODES **MONOPOLAR**

- ▶ Handle- / shaft models of laparoscopic electrodes

Choose among the different handle- / shaft models for the laparoscopic electrodes shown on the next page.

A HANDLE- / SHAFT of MONOPOLAR LAPAROSCOPY ELECTRODES



Electrodes with Art. No.'s 622-010-XX

B HANDLE- / SHAFT of MONOPOLAR LAPAROSCOPY ELECTRODES with irrigation channel and trumpet valve



Electrodes with Art. No.'s 622-030-XX

C SHAFT OF ELECTRODES for SUCTION- / IRRIGATION -HF COMBINATION SYSTEM „PISTOL HANDLE-STYLE“; PREMIUM VERSION



Electrodes with Art.No.'s 622-050-XX

Our Premium Version features a combination set with pistol in „Handle style“ for suction & irrigation (see previous chapter), plus an adapter for HF-electrodes:

SUCTION-/ IRRIGATION - HF HANDLE
„PISTOL HANDLE STYLE“
Art. No. 620-010-00



ADAPTER for HF-ELECTRODES
Art. No. 622-050-00













SUCTION-/ IRRIGATION tubes
Ø 3.0 / 5.0 / 10.0 mm
Art. No.'s see previous chapter



HF-ELECTRODES MONOPOLAR

▶ HF electrodes for handle- / shaft models (shown on previous page)

HF-ELECTRODES MONOPOLAR Ø 5.0 mm **FL** 330 mm / 450 mm

| Complete electrodes with handles / shafts shown on previous page | HF electrodes A  | HF electrodes/ irrigation channel & trumpet valve B  | HF Electrodes Premium Kombi System* C  | |
|--|--|---|--|---|
| BUTTON ELECTRODE ▶ FL 330 mm ▶ FL 450 mm | 622-010-13 622-010-14 | 622-030-13 - | 622-050-13 |  |
| J- HOOK ELECTRODE ▶ FL 330 mm ▶ FL 450 mm | 622-010-23 622-010-24 | 622-030-23 - | 622-050-23 - |  |
| L- HOOK ELECTRODE ▶ FL 330 mm ▶ FL 450 mm | 622-010-33 622-010-34 | 622-030-33 - | 622-050-33 - |  |
| SPATULA ELECTRODE ▶ FL 330 mm ▶ FL 450 mm | 622-010-43 622-010-44 | 622-030-43 - | 622-050-43 - |  |
| IRRIGATION ELECTRODE ▶ FL 330 mm | - | 622-030-53 | - |  |
| NEEDLE ELECTRODE ▶ FL 330 mm | - | - | 622-050-53 |  |
| ADAPTER | - | - | 622-050-00 |  |

* Handle and adapter to be ordered separately.

Cables: see next page



HF-ELECTRODES **MONOPOLAR**

- ▶ HF Needle electrode
- ▶ Cables

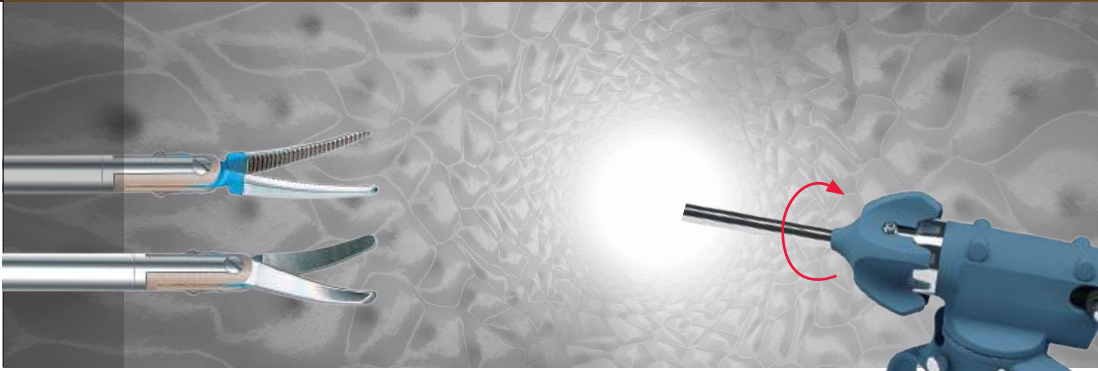


HF-NEEDLE ELECTRODE **MONOPOLAR** Ø 5.0 mm **FL** 320 mm

| Description | Art. No. |
|--------------------------------|------------|
| HF NEEDLE ELECTRODE; monopolar | 622-040-03 |

HF CONNECTION CABLES; **MONOPOLAR** for ENDOOR **C** System and HF electrodes

| Available for following units: | Diameter | 3.0 m | 5.0 m | Instrument side | For further information and pictures see the overview about cables in the chapter "HF Generator & Connection cables". |
|--------------------------------|----------|------------|------------|-----------------|---|
| Martin; TONTARRA mod. PWT-400 | Ø 4.0 mm | 287-815-30 | 287-815-50 | | |
| Erbe | Ø 5.0 mm | 287-820-30 | 287-820-50 | | |
| Valleylab | Ø 8.0 mm | 287-825-30 | 287-825-50 | | |







HF-COAGULATION
INSTRUMENTS
BIPOLAR





HF-COAGULATION INSTRUMENTS BIPOLAR

- ▶ Standard or ring handle, shaft Ø 5.0 mm
- ▶ Cables


HF-COAGULATION INSTRUMENTS BIPOLAR Ø 5.0 mm ▶ FL 340 mm with standard- or ring handle

| Description | | |
|--|------------|--|
| STANDARD HANDLE | 628-201-52 |  |
| RING HANDLE | 628-205-52 |  |
| OUTER SHAFT | 628-203-53 |  |
| INNER SHAFT ▶ for handles Art. No. 628-201-52 and Art. No. 628-205-52 | 628-204-53 |  fits standard and ring handle |

HF CONNECTION CABLES BIPOLAR

| | | | |
|---|--------------|--|---|
| Available for following units: Erbe Martin Banana plugs; 2 x Ø 4.0 mm TONTARRA mod. PWT-400; Valleylab; Ø 4.0 mm | 3.0 m | Instrument side Round plug | For further information and pictures see the overview about cables in the chapter "HF Generator & Connection cables". |
| | |  | |
| ADAPTER (round plug on instrument side) for BIPOLAR CABLES with flat plug (shown below) | 628-299-00 |  | |

HF CONNECTION CABLES; BIPOLAR; flat-cable plug

| | | | | |
|---|--------------|--------------|---|---|
| Available for following units: Erbe; Storz/unit side round plug Berchthold/ Martin/unit side round plug Us-Models; 2-pins/unit side banana plugs TONTARRA mod. PWT-400; Valleylab; International Models; 2 pins; Ø 4.0 mm | 3.0 m | 5.0 m | Instrument side Flat plug | For further information and pictures see the overview about cables in the chapter "HF Generator & Connection cables". |
| | 287-200-30 | 287-200-50 |  | |
| | 287-205-30 | 287-205-50 | | |
| | 287-210-30 | 287-210-50 | | |
| | 287-215-30 | 287-215-50 | | |








HF-COAGULATION INSTRUMENTS BIPOLAR

▶ Coagulation inserts

HF-COAGULATION INSERTS **BIPOLAR** Ø 5.0 mm  Shaft **FL** 340 mm

▶ to use with standard handle 628-201-52; ring handle 628-205-52; shafts 628-203-53; 628-204-53



| Description | Art. No. | |
|--|------------|---|
| TONG TYPE ▶ width 3.0 mm | 628-240-53 |  |
| FLUTED BIT ▶ 1.0 mm | 628-242-53 |  |
| GRASPING FORCEPS ▶ fenestrated | 628-244-53 |  |
| MARYLAND ▶ curved | 628-246-53 |  |
| KLEPPINGER ▶ serrated | 628-248-53 |  |
| METZENBAUM SCISSORS ▶ curved | 628-250-53 |  |
| METZENBAUM SCISSORS TC BLADE ▶ curved | 628-252-53 |  |





HF-COAGULATION INSTRUMENTS BIPOLAR

- ▶ **Powergrip & Power-T-style** coagulation handles; non-turnable or turnable
- ▶ 360° rotatable shaft for Powergrip or Power-T-style handle
- ▶ Cables

HF-COAGULATION INSTRUMENTS POWERGRIP BIPOLAR Ø 5.0 mm ▶ FL 340 mm

| Description | | |
|---|------------|---|
| POWERGRIP HANDLE | 628-302-52 |  |
| SHAFT ▶ rotatable ▶ only for handle Art. No. 628-302-52 | 628-302-53 |  |

HF-COAGULATION INSTRUMENTS POWER T-STYLE BIPOLAR Ø 5.0 mm ▶ FL 340 mm

| Description | | |
|---|------------|---|
| T-STYLE HANDLE ▶ possibility to turn the handle in different positions horizontal with an on/off button for better handling | 628-306-52 |  |
| SHAFT ▶ rotatable ▶ only for handle Art. No. 628-306-52 | 628-306-53 |  |










HF-BIPOLAR COAGULATION INSTRUMENTS

▶ **Power-T-style** coagulation inserts


HF-T-STYLE COAGULATION INSERTS **BIPOLAR** ▶ Ø 5.0 mm  Shaft **FL** 340 mm

▶ to use with handle/shaft Art.No.'s 628-302-52, 628-302-53;
handle/shaft Art.No.'s 628-306-52, 628-306-53

| Description | Art. No. | |
|--|------------|---|
| MICRO GRASPER | 628-341-53 |  |
| GRASPING FORCEPS ▶ delicate curved | 628-342-53 |  |
| GRASPING FORCEPS ▶ curved | 628-343-53 |  |
| GRASPING FORCEPS ▶ fenestrated | 628-344-53 |  |
| MARYLAND ▶ curved | 628-346-53 |  |
| METZENBAUM SCISSORS ▶ curved | 628-350-53 |  |
| GRASPING FORCEPS; LARGE ▶ with P-coat insulation* | 628-352-53 |  |

* P-Coat insulation: ultra-thin coating; insulation of joints and external surfaces does not affect their mechanical rigidity.

HF CONNECTION CABLES; **BIPOLAR**; flat-cable plug







| Available for following units: | 3.0 m | 5.0 m | Instrument side | |
|--|------------|------------|--|---|
| Erbe; Storz/unit side round plug | 287-200-30 | 287-200-50 |  Flat plug | For further information and pictures see the overview about cables in the chapter "HF Generator & Connection cables". |
| Berchthold/Martin/unit side round plug | 287-205-30 | 287-205-50 | | |
| US-Models; 2-pins/unit side banana plugs | 287-210-30 | 287-210-50 | | |
| TONTARRA mod. PWT-400; Valleylab; | 287-215-30 | 287-215-50 | | |
| International Models; 2 pins; Ø 4.0 mm | | | | |



HF-BIPOLAR COAGULATION INSTRUMENTS

- ▶ Blunt dissection
- ▶ Atraumatic tip
- ▶ Disposable blade

POWEREDGE bipolar coagulation forceps with cutting function

| Description | Art. No. | |
|---|------------|---|
| POWEREDGE RING HANDLE <ul style="list-style-type: none"> ▶ bipolar for coagulation forceps HF connection ▶ flat plug | 628-308-52 |  |
| POWEREDGE OUTER SHAFT <ul style="list-style-type: none"> ▶ for coagulation forceps Ø 5.0 mm; 340 mm | 628-308-53 |  |
| POWEREDGE BLADE HOLDER TUBE <ul style="list-style-type: none"> ▶ for coagulation forceps Ø 5.0 mm; 340 mm | 628-309-53 |  |
| POWEREDGE PUSH ROD <ul style="list-style-type: none"> ▶ for coagulation forceps Ø 5.0 mm; 340 mm | 628-310-53 |  |
| GRASPING FORCEPS ELECTRODE <ul style="list-style-type: none"> ▶ for POWEREDGE ▶ bipolar; straight insert; for Ø 5.0 mm shaft; 340 mm | 628-361-53 |  |
| POWEREDGE BLADE <ul style="list-style-type: none"> ▶ sterile ▶ 1 PU = 20 pcs. | 628-362-53 |  |



VERES CANNULA
TROCAR SYSTEMS



VERES INSUFFLATION CANNULA

▶ Ø 2.0 / 2.7 mm



VERES INSUFFLATION CANNULA Ø 2.0 mm

LL

| FL | Art. No. | FL | Art. No. |
|-----------|------------|-----------|------------|
| FL 80 mm | 618-510-08 | FL 150 mm | 618-510-15 |
| FL 100 mm | 618-510-10 | FL 180 mm | 618-510-18 |
| FL 120 mm | 618-510-12 | FL 200 mm | 618-510-20 |



HIGH FLOW VERES INSUFFLATION CANNULA Ø 2.7 mm

LL

| FL | Art. No. | FL | Art. No. |
|-----------|------------|-----------|------------|
| FL 100 mm | 618-515-10 | FL 150 mm | 618-515-15 |
| FL 120 mm | 618-515-12 | | |

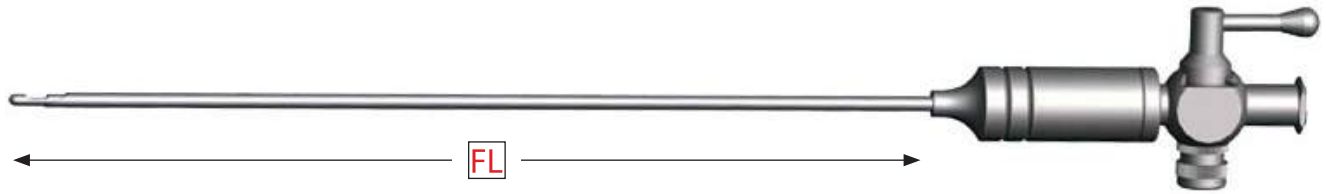
SPARE PART

| Description | Art. No. | |
|---|------------|--|
| SPARE PART SET ▶ for Veres cannula ▶ consisting of spring cap and cock plug | 087-945-01 | |



VERES INSUFFLATION CANNULA

- ▶ Ø 2.0 / 2.7 mm
- ▶ Stainless steel



VERES INSUFFLATION CANNULA Ø 2.0 mm ▶ stainless steel



| FL | Art. No. |
|-----------|------------|
| FL 100 mm | 618-550-10 |
| FL 120 mm | 618-550-12 |
| FL 150 mm | 618-550-15 |



HIGH FLOW VERES INSUFFLATION CANNULA Ø 2.7 mm ▶ stainless steel



| FL | Art. No. |
|-----------|------------|
| FL 100 mm | 618-555-10 |
| FL 120 mm | 618-555-12 |
| FL 150 mm | 618-555-15 |

SPARE PART

| Description | Art. No. | |
|---|------------|--|
| SPARE PART SET ▶ for Veres cannula & trocars ▶ consisting of spring cap and cock plug | 087-945-02 | |



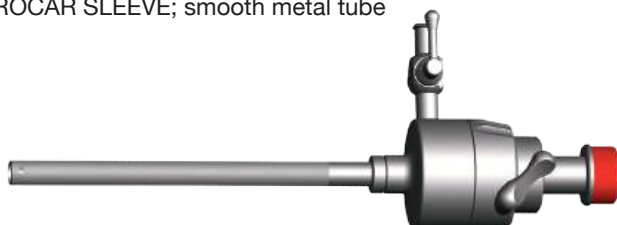
TROCAR SYSTEMS

- ▶ Sleeves & accessories Ø 5.5 mm manual opening lever ▶ FL 95 / 150 mm
- ▶ For Ø 5.5 mm instruments FL 95 / 150 mm

TROCAR SLEEVES & ACCESSORIES ▶ Ø 5.5 mm manual opening lever FL 95 / 150 mm

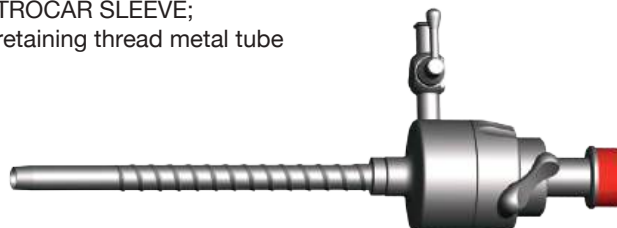
Description

TROCAR SLEEVE; smooth metal tube



Compatible to Hasson trocar system, see overview page 64

TROCAR SLEEVE;
retaining thread metal tube



Size

Art. No.

Ø 5.5 mm / FL 95 mm

626-121-51

Ø 5.5 mm / FL 150 mm

626-121-59

Size

Art. No.

Ø 5.5 mm / FL 95 mm

626-122-51

Description



TROCAR STOP; retaining thread
Ø 5.5 mm / FL 35 mm

626-175-50



SEALING CAP;
Ø 5.5 mm (red); 10 pcs./box

626-170-50



SPARE PART SET;
10 pcs./box




626-171-50



TROCAR SYSTEMS

- ▶ Trocars Ø 5.5 mm
- ▶ FL for 95 / 150 mm

TROCARS ▶ Ø 5.5 mm FL for 95 / 150 mm

| Description | For trocar sleeve | |
|---|--|------------|
| | FL 95 mm | FL 150 mm |
| with CONICAL TIP  | 626-151-51 | 626-151-59 |
| with PYRAMIDAL TIP  | 626-152-51 | 626-152-59 |
| SAFETY TROCAR ▶ pyramidal  | 626-155-51 | 626-155-59 |
| HASSON CONE ▶ adjustable with suture holder | See OVERVIEW Hasson Trocars on the last page of this chapter | |



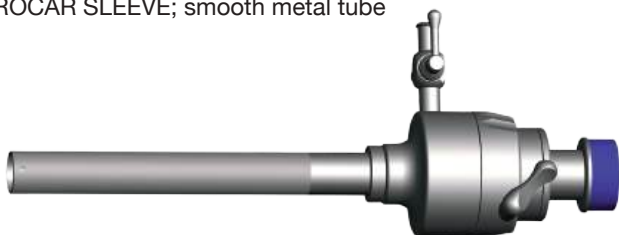
TROCAR SYSTEMS

- ▶ Sleeves & accessories Ø 11.0 mm ▶ FL 100 / 150 mm
- ▶ For Ø 10.0 / 11.0 mm instruments FL 100 / 150 mm

TROCAR SLEEVES & ACCESSORIES ▶ Ø 11.0 mm manual opening lever FL 100 / 150 mm

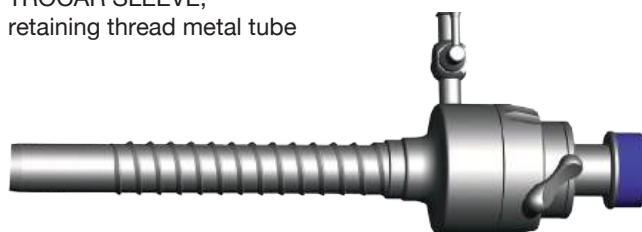
Description

TROCAR SLEEVE; smooth metal tube



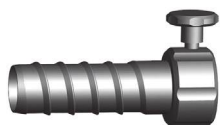
Compatible to Hasson trocar system, see overview page 64

TROCAR SLEEVE;
retaining thread metal tube



| Size | Art. No. | Size | Art. No. |
|-----------------------|------------|-----------------------|------------|
| Ø 11.0 mm / FL 100 mm | 626-121-91 | Ø 11.0 mm / FL 100 mm | 626-122-91 |
| Ø 11.0 mm / FL 150 mm | 626-121-99 | | |

Description



TROCAR STOP; retaining thread
Ø 11.0 mm / FL 35 mm

SEALING CAP;
Ø 10.0/11.0 mm (blue); 10 pcs./box

SPARE PART SET;
10 pcs./box

626-175-00

626-170-90

626-171-90

Description



REDUCER SLEEVE; Ø 11.0 mm to 5.5 mm

626-182-95

Description



REDUCER; Ø 11.0 / 12.5 mm to 5.5 mm

REDUCER; Ø 11.0 / 12.5 mm to 5.5 mm

626-178-95




626-180-95



TROCAR SYSTEMS

- ▶ Trocars Ø 11.0 mm
- ▶ FL for 100 / 150 mm

TROCARS ▶ Ø 11.0 mm manual opening lever **FL** for 100 / 150 mm

| Description | For trocar sleeve | |
|---|--|------------|
| | FL 100 mm | FL 150 mm |
| with CONICAL TIP  | 626-151-91 | 626-151-99 |
| with PYRAMIDAL TIP  | 626-152-91 | 626-152-99 |
| SAFETY TROCAR ▶ pyramidal  | 626-155-91 | 626-155-99 |
| HASSON CONE ▶ adjustable with suture holder | See OVERVIEW Hasson Trocars on the last page of this chapter | |
| HASSON CONE ▶ threaded ▶ suture holder not needed | | |



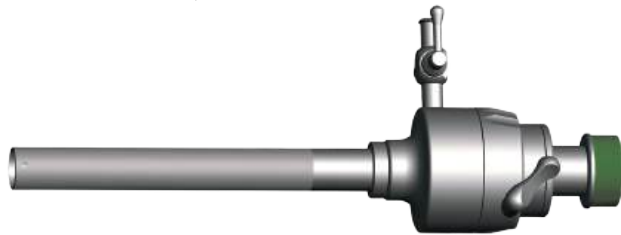
TROCAR SYSTEMS

- ▶ Sleeves & accessories \varnothing 12.5 mm ▶ FL 98 / 150 mm
- ▶ For \varnothing 12.5 mm instruments FL 98 / 150 mm

TROCAR SLEEVES & ACCESSORIES ▶ \varnothing 12.5 mm manual opening lever **FL** 98 / 150 mm

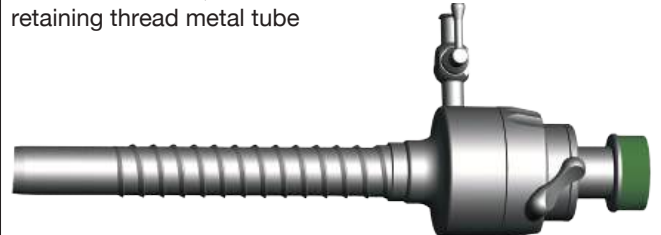
Description

TROCAR SLEEVE; smooth metal tube



Compatible to Hasson trocar system, see overview page 64

TROCAR SLEEVE;
retaining thread metal tube



Size

\varnothing 12.5 mm / FL 98 mm

Art. No.

626-121-11

Size

\varnothing 12.5 mm / FL 98 mm

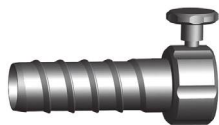
Art. No.

626-122-11

\varnothing 12.5 mm / FL 150 mm

626-121-19

Description



TROCAR STOP; retaining thread
 \varnothing 12.5 mm / FL 35 mm

SEALING CAP;
 \varnothing 12.5 mm (green); 10 pcs./box

SPARE PART SET;
10 pcs./box

626-175-11

626-170-11

626-171-11

Description



REDUCER SLEEVE; \varnothing 12.5 mm to 5.5 mm

626-182-15

Description



REDUCER; \varnothing 11.0 / 12.5 mm to 5.5 mm

REDUCER; \varnothing 11.0 / 12.5 mm to 5.5 mm

626-178-95




626-180-15



TROCAR SYSTEMS

- ▶ Trocars Ø 12.5 mm
- ▶ FL for 98 / 150 mm

TROCARS ▶ Ø 12.5 mm manual opening lever **FL** for 98 / 150 mm

| Description | For trocar sleeve | |
|---|-------------------|------------|
| | FL 98 mm | FL 150 mm |
| with CONICAL TIP  | 626-151-11 | 626-151-19 |
| with PYRAMIDAL TIP  | 626-152-11 | 626-152-19 |
| SAFETY TROCAR ▶ pyramidal  | 626-155-11 | 626-155-19 |



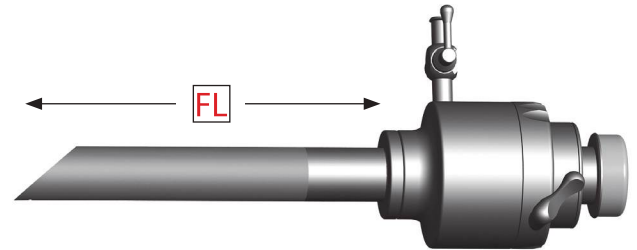
TROCAR SYSTEMS

- ▶ Sleeves, accessories & trocars Ø 15.0 mm
- ▶ FL 110 mm

TROCAR SLEEVES, ACCESSORIES & TROCARS ▶ Ø 15.0 mm manual opening lever FL 110 mm

Description

TROCAR SLEEVE; smooth metal tube



Size

Ø 15.0 mm / FL 110 mm

Art. No.

626-121-41

TROCAR Conical Tip



for FL 110 mm

626-151-41



TROCAR Pyramidal Tip



for FL 110 mm

626-152-41

Description

| | | |
|--|---|---|
| |  |  |
| | 10 pcs./box | 10 pcs./box |
| | SEALING CAP; Ø 15.0 mm (grey) | SPARE PART SET |
| | 626-170-15 | 626-171-15 |



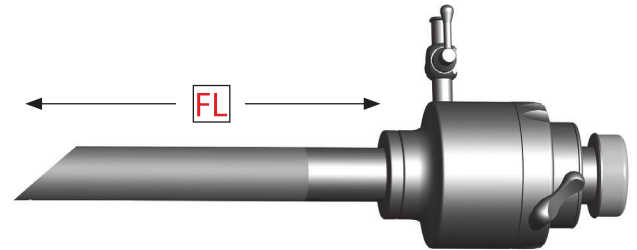
TROCAR SYSTEMS

- ▶ Trocars Ø 20.0 mm
- ▶ FL 119 mm

TROCAR SLEEVES, ACCESSORIES & TROCARS ▶ Ø 20.0 mm manual opening lever FL 119 mm

Description

TROCAR SLEEVE; smooth metal tube



Size

Ø 20.0 mm / FL 119 mm

Art. No.

626-121-21

TROCAR Conical Tip



for FL 190 mm

626-151-21

TROCAR Pyramidal Tip



for FL 190 mm

626-152-21

Description



10 pcs./box

SEALING CAP;
Ø 20.0 mm (grey)

626-170-20



10 pcs./box

SPARE PART SET

626-171-20



HASSON SYSTEM

- ▶ Trocars (blunt or alternative)
- ▶ Cones

HASSON CONES





| | | | |
|---------------------------------|---|---|---|
| HASSON CONE |  |  | HEALING CAPS for HASSON Cones  |
| Description/Size | adjustable with suture holder | threaded | (10 pcs/box) |
| For Ø 5.5 mm system/ FL 95 mm | 626-190-06 | conic trocar/ see tab below | 626-195-50 |
| For Ø 11.0 mm system/ FL 100 mm | 626-190-11 | 626-191-11 | 626-195-90 |
| For Ø 12.5 mm system/ FL 98 mm | 626-190-13 | conic trocar/see tab below | 626-195-95 |



TROCAR FOR HASSON; CONICAL; BLUNT

| Description/Size | For short sleeve versions | | For long sleeve versions | |
|----------------------|---------------------------|------------|--------------------------|---------------------------------|
| | For Ø 5.5 mm system | FL 95 mm | 626-157-51 | FL 150 mm |
| For Ø 11.0 mm system | FL 100 mm | 626-157-91 | - | - |
| For Ø 12.5 mm system | FL 98 mm | 626-157-11 | FL 150 mm | conic trocar/see overview below |

HASSON TROCAR SYSTEM - COMPATIBILITY OVERVIEW

| Hasson Cones / Art. No. | Ø System | FL | Trocar sleeves* | Trocar blunt | Trocar alternative (conic)* |
|--|-----------|-----------|-----------------|--------------|-----------------------------|
|  626-190-06 | Ø 5.5 mm | FL 95 mm | 626-121-51 | 626-157-51 | - |
| | | FL 150 mm | 626-121-59 | - | 626-151-59 |
|  626-190-11 | Ø 11.0 mm | FL 100 mm | 626-121-91 | 626-157-91 | - |
| | | FL 150 mm | 626-121-99 | 626-151-99 | - |
|  626-191-11 | | FL 100 mm | 626-121-91 | 626-157-91 | - |
| | | FL 150 mm | 626-121-99 | 626-151-99 | - |
|  626-190-13 | Ø 12.5 mm | FL 98 mm | 626-121-11 | 626-157-11 | - |
| | | FL 150 mm | 626-121-19 | - | 626-151-19 |

* see trocar sleeves and trocars with conical tip on the previous pages (TROCAR SYSTEMS 5.5 / 11.0 / 12.5 mm)



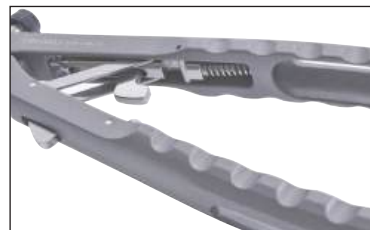
PEDIATRIC LAPAROSCOPY

Ø 3.0 mm



NEEDLE HOLDERS

LOFTLINE Ø 3.0 mm



Simple locking mechanism with perfectly positioned release button

...feel the lightness of suturing.

- Extremely light weighted – only 120 g vs. popular competitors' model of 256 g
- Superb balance and excellent ergonomics – specially designed needle holder for fatigue-proof and effortless handling
- Integrated overload protection – reliable holding of various needle types



LOFTLINE Needle holder






LOFTLINE Ø 3.0 mm TC NEEDLE HOLDER

► For pediatric use



TC NEEDLE HOLDER **FL** 290 mm

| Description | | Art. No. | |
|------------------------------------|----------|------------|---|
| TC NEEDLE HOLDER ► straight | Ø 3.0 mm | 614-100-33 |  |
| TC NEEDLE HOLDER ► curved left | Ø 3.0 mm | 614-110-33 |  |
| TC NEEDLE HOLDER ► curved right | Ø 3.0 mm | 614-115-33 |  |

Recommended needle & suturing material

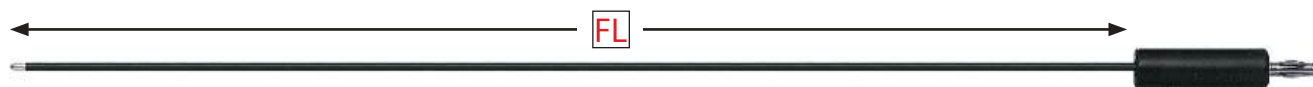
Needle holder with TC-plates

0.3 mm (Ø 3 mm needle holder): For delicate needles and suturing material; thickness up to 8/0.






HF-LAPAROSCOPY ELECTRODES; TROCAR SYSTEM



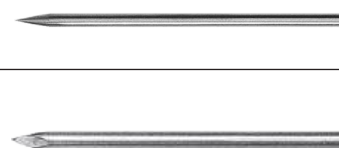
► For pediatric use



HF-LAPAROSCOPY ELECTRODES **monopolar** Ø 2.8 mm **FL** 330 mm

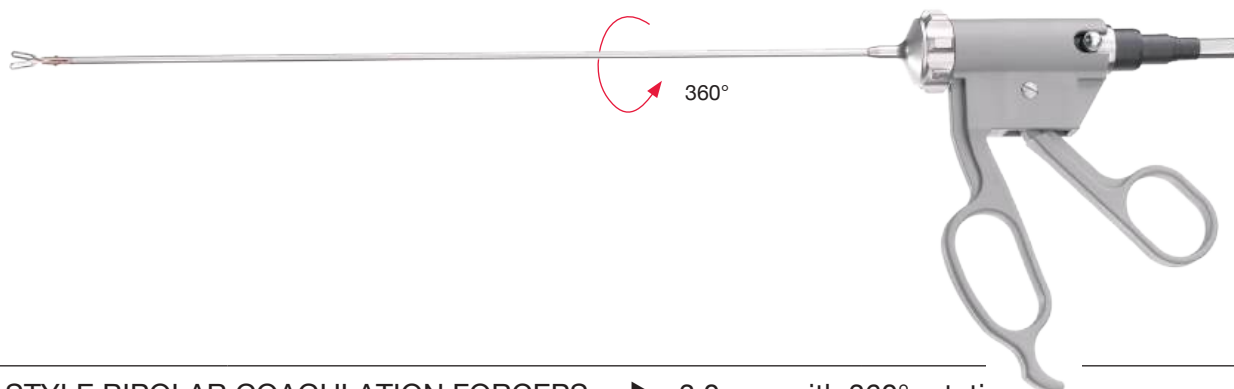
| Description | Art. No. | |
|-------------------|------------|---|
| BUTTON ELECTRODE | 622-005-13 |  |
| J- HOOK ELECTRODE | 622-005-23 |  |
| L- HOOK ELECTRODE | 622-005-33 |  |

TROCAR SLEEVE & TROCARS Ø 3.5 mm **FL** 70 mm





| Description | Art. No. | |
|--------------------------------------|------------|---|
| TROCAR SLEEVE ► smooth metal tube | 626-121-31 |  |
| TROCAR ► conical tip | 626-151-31 |  |
| TROCAR ► pyramidal tip | 626-152-31 |  |




LAP 3.0 BIPOLAR COAGULATION FORCEPS



LAP 3.0 T-STYLE BIPOLAR COAGULATION FORCEPS ▶ 3.0 mm with 360° rotation

| Description | | Art. No. |
|---|--|----------------------------|
| 3.0 MICRO HANDLE |  | 628-401-53 |
| | | FL 200 mm FL 290 mm |
| 3.0 MICRO SHAFT |  | 628-402-52 628-402-53 |
| MARYLAND DISSECTOR ELECTRODE ▶ curved |  | 628-446-52 628-446-53 |
| GRASPING FORCEPS ELECTRODE ▶ fenestrated |  | 628-444-52 628-444-53 |

HF CONNECTION CABLES; **BIPOLAR**; flat-cable plug

| Available for following units: | 3.0 m | 5.0 m | Instrument side | |
|--|------------|------------|--|---|
| Erbe; Storz/unit side round plug | 287-200-30 | 287-200-50 | Flat plug  | For further information and pictures see the overview about cables in the chapter "HF Generator & Connection cables". |
| Berchthold/Martin/unit side round plug | 287-205-30 | 287-205-50 | | |
| US-Models; 2-pins/unit side banana plugs | 287-210-30 | 287-210-50 | | |
| TONTARRA mod. PWT-400; Valleylab; | 287-215-30 | 287-215-50 | | |
| International Models; 2 pins | | | | |





DISPOSABLES



ENDOOR CUT Ø 5.0 mm DISPOSABLE LAPAROSCOPY INSTRUMENT SYSTEM

▶ **Interchangeable** disposable instrument tips to use with **reusable** handle / shaft system

ENDOOR CUT Ø 5.0 mm DISPOSABLE LAPAROSCOPY INSTRUMENT SYSTEM FL 310 / 450 mm

▶ **Interchangeable** disposable instrument tips to use with **reusable** handle / shaft system



ENDOOR HANDLE without ratchet

610-001-01

ENDOOR **CUT** SHAFT

610-002-95

- ▶ reusable
- ▶ FL 310 mm



SHAFTS

- ▶ reusable
- ▶ insulated with CUP NUT for disposable tips



ENDOOR CUT Ø 5.0 mm DISPOSABLE INSERTS ▶ **STERILE; LONG INSULATION**

METZENBAUM SCISSORS curved

482-900-50

- ▶ standard blade 16.0 mm

(box of 5 pcs.)



METZENBAUM SCISSORS curved

482-900-51

- ▶ short blade 10.0 mm

(box of 5 pcs.)






DISPOSABLE LAPAROSCOPY INSTRUMENTS

- ▶ Cholangeography fixation forceps

CHOLEANGOGRAPHY FIXATION FORCEPS; **DISPOSABLE** Ø 5.0 mm **FL** 330 mm 

| Description | Art. No. |
|--|----------------|
| <p>OLSEN SWAN</p>  | <p>MAS-007</p> |





HF GENERATOR & CONNECTION CABLES



HF GENERATOR **PLASMA WAVE**

▶ PWT-400



HF Generator for electrical surgery **PWT-400**
SMART - SAFE - POWERFUL

Many options – one device.



SMART

- ▶ Multi-disciplinary use
- ▶ Optimized modes for various clinical applications
- ▶ 99 storage positions for application-specific programs/profiles
 - All presets can be adapted individually
 - Customizable program settings and descriptions

SAFE

- ▶ Self-test during system start and permanent auto check during use
- ▶ Current leakage monitoring
- ▶ Neutral electrode monitoring:
 - use of small neutral electrodes for pediatrics or neonates possible
 - use of split neutral electrodes possible

POWERFUL

- ▶ Accurate, smooth incisions and effective coagulation due to optimized presettings
- ▶ 14 monopolar and bipolar cutting modes and 10 coagulation modes; self-adjusting of output power

FOR A WIDE RANGE OF LAPAROSCOPIC APPLICATIONS, E.G.:

- ▶ Colectomy
- ▶ Fundoplication
- ▶ Gastrectomy
- ▶ Splenectomy
- ▶ Cholecystectomy
- ▶ Liver resection

For technical data & more details please ask for our Plasma Wave brochure.



- ▶ Suitable for monopolar and bipolar applications
- ▶ The unit features the simultaneous use of two monopolar handles
- ▶ Compatible with one or two twin foot-switches
- ▶ Intuitive menu navigation via touch display



Twin foot-switch

HF connection cables for PWT-400

HF-connection cables **monopolar**

3 m: Art. No. 287-815-30

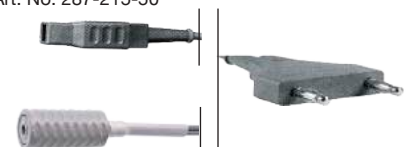
5 m: Art. No. 287-815-50



HF-connection cables **bipolar**

3 m: Art. No. 287-215-30

5 m: Art. No. 287-215-50



3 m: Art. No. 628-295-03







HF GENERATOR & HF CONNECTION CABLES

- ▶ HF Unit Plasma Wave PWT-400
- ▶ Monopolar HF connection cables

HF UNIT PLASMA WAVE





| Description | Art. No. |
|--|---------------------|
| PWT-400 Plasma Wave; HF generator for electrical surgery   | 540-280-50(PWT-400) |
| TWIN FOOT-SWITCH  | 540-284-50 |

HF CONNECTION CABLES; **MONOPOLAR** for laparoscopic HF electrodes

| Available for following units: | Diameter | 3.0 m | 5.0 m | Instrument side | Unit-Side |
|----------------------------------|----------|------------|------------|--|---|
| Martin; TONTARRA mod. PWT-400 | Ø 4.0 mm | 287-815-30 | 287-815-50 |  |  |
| Valleylab*; Force Triad; BOWA | Ø 8.0 mm | 287-825-30 | 287-825-50 | |  |
| Erbe | Ø 5.0 mm | 287-820-30 | 287-820-50 | |  |

* not for Valleylab LS10

HF CONNECTION CABLES; NEUTRAL ELECTRODES






| Description | length | Art. No. | Electrode side | Unit-Side |
|---|--------|------------|---|---|
| TONTARRA mod. PWT-400 for reusable Neutral Electrodes | 4.5 m | 289-215-45 |  |  |
| TONTARRA mod. PWT-400 for single-use Neutral Electrodes | 4.5 m | 289-025-45 |  |  |



HF CONNECTION CABLES

▶ **BIPOLAR** HF connection cables







HF CONNECTION CABLES; **BIPOLAR** ▶ to connect semi-flexible **bipolar** HF electrodes for hysteroscopy to HF generator

| Available for following units: | 3.0 m | 5.0 m | Instrument-side | Unit-side |
|--|------------|------------|--|---|
| Erbe; Storz/unit side round plug | 287-200-30 | 287-200-50 |  |  |
| Berchthold/Martin*/unit side round plug | 287-205-30 | 287-205-50 | |  |
| Us-Models; 2-pins/unit side banana plugs; Ø 4.0 mm | 287-210-30 | 287-210-50 | |  |
| TONTARRA mod. PWT-400; Valleylab**; BOWA; International Models; 2 pins; Ø 4.0 mm | 287-215-30 | 287-215-50 | |  |

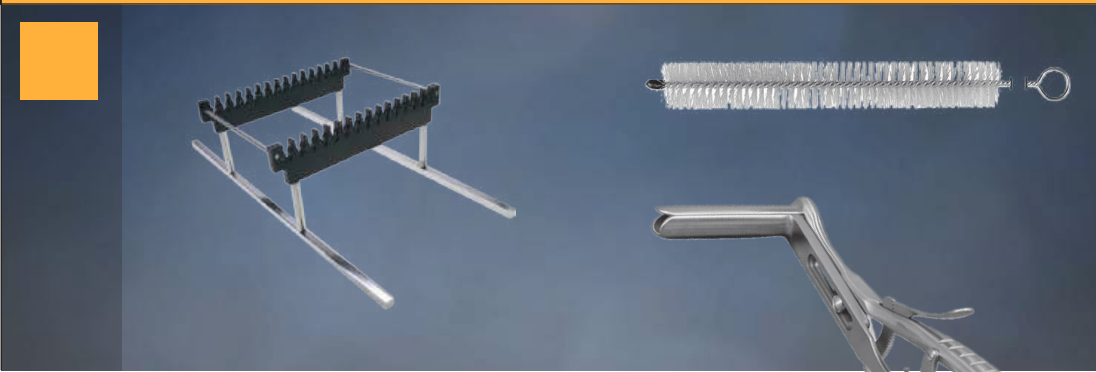
* not for Martin ME411; MD62

** not for Valleylab LS10

HF CONNECTION CABLES; **BIPOLAR**

| Available for following units: | | Instrument-side | Unit-side |
|---|------------|--|---|
| Erbe | 628-292-03 |  |  |
| Martin* | 628-293-03 | |  |
| Banana plug; 2 x Ø 4.0 mm | 628-294-03 | |  |
| TONTARRA mod. PWT-400; Valleylab; BOWA; Ø 4.0 mm | 628-295-03 | |  |
| ADAPTER for BIPOLAR CABLES with FLAT PLUG | 628-299-00 |  | Cable models see tab above |

* not for Martin MD62




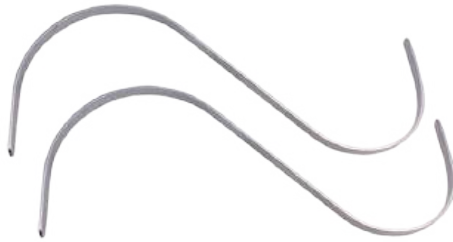
ACCESSORIES




ACCESSORIES

- ▶ Retractors for gall bladder extraction
- ▶ Palpation probes
- ▶ Puncture injection needles


RETRACTORS FOR GALL BLADDER RESECTION

| Description | | | |
|---|------------|---|-------------------------|
| ABDOMINAL SPECULUM  | | S-RETRACTOR SET (2 pcs./set)  | |
| Size | Art. No. | Size | Art. No. |
| Valve inner diameter Ø 12.0 mm | 527-040-00 | width 5.5 mm | 527-042-00 (2 pcs./set) |
| | | width 11.0 mm | 527-042-11 (2 pcs./set) |

PALPATION PROBES

| Description | |
|--|------------|
|  | |
| Size | Art. No. |
| FL 330 mm; Ø 2.8 mm | 618-190-33 |
| FL 330 mm; Ø 5.0 mm | 618-190-53 |
| FL 450 mm; Ø 5.0 mm | 618-190-54 |

PUNCTURE INJECTION NEEDLES





| Description | | |
|--|------------|------------|
|  | | |
| Diameter | FL 330 mm | FL 450 mm |
| 0.7 mm | 618-203-07 | – |
| 0.9 mm | 618-203-09 | – |
| 1.2 mm | 618-203-12 | 618-204-12 |
| 1.4 mm | 618-203-14 | 618-204-14 |
| 1.5 mm | 618-203-15 | 618-204-15 |
| 1.8 mm | 618-203-18 | 618-204-18 |




ACCESSORIES

▶ Instrument Care, Maintenance



CLEANING BRUSHES for TROCARS and ENDOOR C INSTRUMENTS

| Description | |
|--|---|
|  <p>CLEANING BRUSH for Ø 5.5 mm trocar; Wire of V2A; length 300 mm; brush diameter: Ø 5.0 mm; bristle length: 100 mm; 5 pcs./unit</p> <p>499-200-30 (box of 5 pcs.)</p> |  <p>CLEANING BRUSH for Ø 11.0/12.5/15.5 mm trocars; Wire of V2A; length 300 mm; brush diameter: Ø 15.0 mm; bristle length: 100 mm; 5 pcs./unit</p> <p>499-201-30 (box of 5 pcs.)</p> |
|  <p>CLEANING BRUSH for Ø 20.0 mm trocar; Wire of V2A; length 450 mm; brush diameter: Ø 20.0 mm; bristle length: 150 mm; 5 pcs./unit</p> <p>499-202-45 (box of 5 pcs.)</p> |  <p>CLEANING BRUSH for ENDOOR C shaft and trocar cocks; length 390 mm; Nylon; Set consisting of brush with Ø 6.0 mm bristles (20 mm length) and pipe cleaner Ø 6.0 mm (30 mm length); 10 pcs./unit</p> <p>499-203-39 (box of 10 pcs.)</p> |

MAINTENANCE

| Description | Art. No. |
|---|---|
| <p>TAP & STOPCOCK LUBRICANT</p> <ul style="list-style-type: none"> ▶ special grease for surgical instruments (specially for stopcocks) ▶ 5 g tube |  <p>582-095-00</p> |
| <p>INSTRUMENT OIL</p> <ul style="list-style-type: none"> ▶ 500 ml |  <p>DRSO/00-108-005</p> |
| <p>POLISHING PASTE FOR ENDOSCOPES</p> <ul style="list-style-type: none"> ▶ 5 pcs. |  <p>601-900-20</p> |

SPARE PARTS

| Description | Art. No. |
|---|--|
| <p>SPARE PART SET</p> <ul style="list-style-type: none"> ▶ for Veres cannula and trocars ▶ consisting of spring cap and cock plug |  <p>087-945-02</p> |
| <p>Luer Lock CLOSING GAP</p> <ul style="list-style-type: none"> ▶ with silicone ▶ 10 pcs./unit |  <p>087-955-01 (box of 10 pcs.)</p> |





ACCESSORIES

- ▶ Storage and Sterilization of instruments

STORAGE AND STERILISATION RACKS



- ▶ for laparoscopic instruments Ø 3.0 mm / Ø 5.0 mm / Ø 10.0 mm

| Description | Art. No. | |
|---|------------|---|
| ENDOOR C STORAGE AND STERILISATION RACK ▶ Size: L 470 x W 250 x H 150 mm ▶ to use in containers size 1/1 with height starting at 200 mm | 499-100-25 |  |
| STORAGE AND STERILIZATION RACK ▶ for 10 pieces of laparoscopy instruments ▶ Size: L 525 x W 245 x H 175 mm ▶ to use in containers size 1/1 with height starting at 200 mm | 499-101-20 |  |

CONTAINER BOX 1/1 BOTTOM ALUMINIUM

- ▶ L 595 x W 275 x H 200 mm

- ▶ Locking device: bottom with flexible latch and lid with fixed axis

| Description | Art. No. | |
|--|-------------|---|
| ▶ Bottom perforated (with Quick Change filter system for fast replacement of the filter) | 260-106-20Y |  |
| ▶ Bottom non perforated | 260-105-20Y |  |

CONTAINER LIDS [different colours]

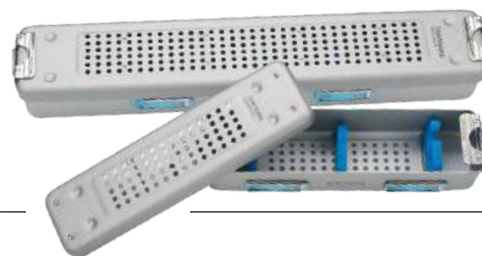
| Description | Aluminium | Polymer | 1 2 3 4 5 6 |
|------------------|-------------|-------------|---|
| ▶ Lid perforated | 260-100-0XY | 260-101-0XY | Please put the color number instead of the "X" into the article number when ordering. |
| ▶ Safety lid | 260-103-0XY | - | |

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











ACCESSORIES

- ▶ Storage, sterilization and protection of telescopes





TELESCOPE CONTAINER

| Description | 450 x 70 x 70 mm | 250 x 60 x 50 mm | |
|--|------------------|------------------|---|
|  ▶ silver | 260-602-01Y | 260-601-01Y |  Lid and bottom perforated; complete  Outside dimension |
|  ▶ yellow | 260-602-02Y | 260-601-02Y | |
|  ▶ red | 260-602-03Y | 260-601-03Y | |
|  ▶ blue | 260-602-04Y | 260-601-04Y | |
|  ▶ green | 260-602-05Y | 260-601-05Y | |
|  ▶ black | 260-602-06Y | 260-601-06Y | |




WIRE BASKET WITH FIXATION

- ▶ Container height 55 mm 

| Description | Telescopes | Art. No. | |
|--------------------------------|------------|-------------|---|
| Wire basket ▶ 290 x 80 x 55 mm | 1 | 260-600-03Y |  Container height  Outside dimension |
| Wire basket ▶ 460 x 80 x 55 mm | 1 | 260-600-04Y | |
| Wire basket ▶ 670 x 80 x 55 mm | 1 | 260-600-07Y | |

PROTECTION

| Description | Art. No. |
|--|--------------------------------|
| <p>PROTECTING SLEEVE FOR ALL TELESCOPES</p> <ul style="list-style-type: none"> ▶ easy handling ▶ up to Ø 5.5 mm ▶ plastic sleeve  | 590-000-01 (box of 10 pcs.) |



SUTURE TRAINING SIMULATOR

Practice suturing skills outside the operating room

You bring your mobile equipment, install the App, order two TRAINING Needle Holders and the **SUTURE TRAINING SIMULATOR SET** – then you can start!



Wifi Camera –wireless connect your iPhone, iPad (Daniel Amtey)

How to connect the phone with the tablet:

- ▶ Download „Wifi Cam“ App (iOS) on both devices
- ▶ Activate Wlan or Bluetooth on both devices
- ▶ Open „Wifi Cam“ on both devices
- ▶ Press „Search Device“ (on one of the devices) and activate the connection








SUTURE TRAINING SIMULATOR

| Description | Quantity | Art. No. |
|---|----------|------------|
| TRAINING SIMULATOR SET, consisting of: | | 750-000-00 |
| ▶ Base plate | 1 x | 750-010-00 |
| ▶ Suction cup with starnut | 4 x | 750-020-00 |
| ▶ Ø 5 mm holder for optic and Instruments | 2 x | 750-030-00 |
| ▶ Ø 10 mm holder for optic and instruments | 1 x | 750-040-00 |
| ▶ Flexible holder for mobile phone with velcro strips for mobile phone case | 1 x | 750-050-00 |
| ▶ „First try skin“, with mount | 1 x | 750-060-00 |

CHOOSE YOUR NEEDLE HOLDERS; SEE EXAMPLES BELOW

TRAINING NEEDLE HOLDER ▶ FL 330 mm; Ø 5.0 mm

| Description | Art. No | |
|------------------------------------|------------|---|
| TC NEEDLE HOLDER ▶ straight | 700-100-53 |  |
| TC NEEDLE HOLDER ▶ curved left | 700-110-53 |  |
| TC NEEDLE HOLDER ▶ curved right | 700-115-53 |  |
| NEEDLE HOLDER ▶ convex/concave | 700-120-53 |  |
| TC NEEDLE HOLDER ▶ „S-shaped“ | 700-135-53 |  |

* no medical product – non autoclavable



Step 1:

Mount the suction cups on the plate



Step 2:

Mount the holders for the webcam and the needle holders



Step 3:

Mount the tissue replacement on the plate





INDEX

| | | | | | | | |
|-------------|----|------------|----|---------------|----|------------|----|
| Inhalt | | 287-215-50 | 69 | 540-815-23 | 8 | 611-006-00 | 12 |
| 087-945-01 | 54 | 287-215-50 | 78 | 540-815-30 | 8 | 611-006-00 | 18 |
| 087-945-02 | 55 | 287-815-30 | 12 | 540-815-50 | 8 | 611-010-53 | 12 |
| 087-950-01 | 81 | 287-815-30 | 18 | 540-822-18 | 8 | 611-010-54 | 12 |
| 087-955-01 | 81 | 287-815-30 | 46 | 540-822-23 | 8 | 611-020-93 | 18 |
| 260-100-0XY | 82 | 287-815-30 | 77 | 540-822-30 | 8 | 611-100-53 | 13 |
| 260-101-0XY | 82 | 287-815-50 | 12 | 540-822-50 | 8 | 611-100-54 | 13 |
| 260-103-0XY | 82 | 287-815-50 | 18 | 540-823-18 | 8 | 611-110-53 | 13 |
| 260-105-20Y | 82 | 287-815-50 | 46 | 540-823-23 | 8 | 611-112-53 | 13 |
| 260-106-20Y | 82 | 287-815-50 | 77 | 540-823-30 | 8 | 611-150-53 | 13 |
| 260-600-03Y | 83 | 287-820-30 | 12 | 540-823-50 | 8 | 611-150-54 | 13 |
| 260-600-04Y | 83 | 287-820-30 | 18 | 540-880-01 | 8 | 611-155-53 | 13 |
| 260-600-07Y | 83 | 287-820-30 | 46 | 540-880-02 | 8 | 611-200-53 | 14 |
| 260-601-01Y | 83 | 287-820-30 | 77 | 540-880-04 | 8 | 611-200-54 | 14 |
| 260-601-02Y | 83 | 287-820-50 | 12 | 540-880-13 | 8 | 611-202-53 | 14 |
| 260-601-03Y | 83 | 287-820-50 | 18 | 540-890-01 | 8 | 611-202-54 | 14 |
| 260-601-04Y | 83 | 287-820-50 | 46 | 540-890-02 | 8 | 611-204-53 | 14 |
| 260-601-05Y | 83 | 287-820-50 | 77 | 540-890-04 | 8 | 611-204-54 | 14 |
| 260-601-06Y | 83 | 287-825-30 | 12 | 540-890-10 | 8 | 611-205-53 | 14 |
| 260-602-01Y | 83 | 287-825-30 | 18 | 540-890-14 | 8 | 611-206-53 | 14 |
| 260-602-02Y | 83 | 287-825-30 | 46 | 582-095-00 | 81 | 611-207-53 | 14 |
| 260-602-03Y | 83 | 287-825-30 | 77 | 587-205-32 | 22 | 611-210-53 | 14 |
| 260-602-04Y | 83 | 287-825-50 | 12 | 587-205-42 | 22 | 611-210-54 | 14 |
| 260-602-05Y | 83 | 287-825-50 | 18 | 587-210-33 | 22 | 611-212-53 | 14 |
| 260-602-06Y | 83 | 287-825-50 | 46 | 587-210-42 | 22 | 611-212-54 | 14 |
| 287-200-30 | 48 | 287-825-50 | 77 | 587-220-05 | 22 | 611-213-53 | 14 |
| 287-200-30 | 51 | 289-025-45 | 77 | 587-220-10 | 22 | 611-214-53 | 15 |
| 287-200-30 | 69 | 289-215-45 | 77 | 587-225-10 | 22 | 611-215-53 | 15 |
| 287-200-30 | 78 | 482-900-50 | 72 | 590-000-01 | 83 | 611-216-53 | 15 |
| 287-200-50 | 48 | 482-900-51 | 72 | 601-005-00HD | 6 | 611-216-54 | 15 |
| 287-200-50 | 51 | 499-100-25 | 82 | 601-005-00HD2 | 6 | 611-218-53 | 15 |
| 287-200-50 | 69 | 499-101-20 | 82 | 601-005-00HD4 | 6 | 611-220-53 | 15 |
| 287-200-50 | 78 | 499-199-00 | 21 | 601-005-30HD | 6 | 611-224-53 | 15 |
| 287-205-30 | 48 | 499-200-30 | 81 | 601-005-30HD2 | 6 | 611-226-53 | 15 |
| 287-205-30 | 51 | 499-201-30 | 81 | 601-005-30HD4 | 6 | 611-228-53 | 15 |
| 287-205-30 | 69 | 499-202-45 | 81 | 601-005-40HD | 6 | 611-249-53 | 16 |
| 287-205-30 | 78 | 499-203-39 | 81 | 601-005-40HD2 | 6 | 611-250-53 | 16 |
| 287-205-50 | 48 | 527-040-00 | 80 | 601-005-40HD4 | 6 | 611-250-54 | 16 |
| 287-205-50 | 51 | 527-042-00 | 80 | 601-010-00HD | 6 | 611-251-53 | 16 |
| 287-205-50 | 69 | 527-042-11 | 80 | 601-010-00HD2 | 6 | 611-252-53 | 16 |
| 287-205-50 | 78 | 540-280-50 | 77 | 601-010-00HD4 | 6 | 611-252-54 | 16 |
| 287-210-30 | 48 | 540-284-50 | 77 | 601-010-30HD | 6 | 611-253-53 | 16 |
| 287-210-30 | 51 | 540-803-18 | 8 | 601-010-30HD2 | 6 | 611-254-53 | 16 |
| 287-210-30 | 69 | 540-803-23 | 8 | 601-010-30HD4 | 6 | 611-256-53 | 16 |
| 287-210-30 | 78 | 540-803-30 | 8 | 601-010-40HD | 6 | 611-258-53 | 16 |
| 287-210-50 | 48 | 540-803-50 | 8 | 601-010-40HD2 | 6 | 611-260-53 | 17 |
| 287-210-50 | 51 | 540-812-18 | 8 | 601-010-40HD4 | 6 | 611-300-53 | 15 |
| 287-210-50 | 69 | 540-812-23 | 8 | 601-900-20 | 81 | 611-300-54 | 15 |
| 287-210-50 | 78 | 540-812-30 | 8 | 610-001-01 | 66 | 611-350-53 | 17 |
| 287-215-30 | 48 | 540-812-50 | 8 | 610-001-01 | 72 | 611-350-54 | 17 |
| 287-215-30 | 51 | 540-813-18 | 8 | 610-002-95 | 72 | 611-352-53 | 17 |
| 287-215-30 | 69 | 540-813-23 | 8 | 611-001-00 | 12 | 611-352-54 | 17 |
| 287-215-30 | 78 | 540-813-30 | 8 | 611-001-00 | 18 | 611-400-93 | 18 |
| 287-215-50 | 48 | 540-813-50 | 8 | 611-005-00 | 12 | 611-406-93 | 18 |
| 287-215-50 | 51 | 540-815-18 | 8 | 611-005-00 | 18 | 611-429-93 | 18 |



INDEX

| | | | | | | | |
|------------|----|------------|----|------------|----|------------|----|
| 612-105-53 | 19 | 612-940-01 | 26 | 618-110-43 | 31 | 622-005-33 | 68 |
| 612-110-53 | 19 | 612-942-00 | 26 | 618-180-53 | 31 | 622-010-13 | 45 |
| 612-115-53 | 19 | 612-942-01 | 26 | 618-190-53 | 80 | 622-010-23 | 45 |
| 612-120-53 | 19 | 612-944-00 | 26 | 618-190-54 | 80 | 622-010-33 | 45 |
| 612-125-53 | 19 | 612-944-01 | 26 | 618-195-20 | 33 | 622-010-43 | 45 |
| 612-130-53 | 19 | 612-946-00 | 26 | 618-200-03 | 32 | 622-030-13 | 45 |
| 612-135-53 | 21 | 612-946-01 | 26 | 618-201-03 | 32 | 622-030-23 | 45 |
| 612-195-53 | 31 | 612-990-53 | 21 | 618-203-07 | 80 | 622-030-33 | 45 |
| 612-205-53 | 19 | 614-100-33 | 28 | 618-203-09 | 80 | 622-030-43 | 45 |
| 612-210-53 | 19 | 614-100-33 | 67 | 618-203-12 | 80 | 622-030-53 | 45 |
| 612-215-53 | 19 | 614-100-53 | 28 | 618-203-14 | 80 | 622-040-03 | 46 |
| 612-220-53 | 19 | 614-100-54 | 28 | 618-203-15 | 80 | 622-050-00 | 45 |
| 612-225-53 | 19 | 614-110-33 | 28 | 618-203-18 | 80 | 622-050-13 | 45 |
| 612-230-53 | 19 | 614-110-33 | 67 | 618-204-12 | 80 | 622-050-23 | 45 |
| 612-295-53 | 31 | 614-110-53 | 28 | 618-204-14 | 80 | 622-050-33 | 45 |
| 612-320-53 | 20 | 614-110-54 | 28 | 618-204-15 | 80 | 622-050-43 | 45 |
| 612-325-53 | 20 | 614-115-33 | 28 | 618-204-18 | 80 | 622-050-53 | 45 |
| 612-330-53 | 20 | 614-115-33 | 67 | 618-510-08 | 54 | 626-121-11 | 60 |
| 612-405-53 | 20 | 614-115-53 | 28 | 618-510-10 | 54 | 626-121-19 | 60 |
| 612-410-53 | 20 | 614-115-54 | 28 | 618-510-12 | 54 | 626-121-21 | 63 |
| 612-415-53 | 20 | 614-120-53 | 28 | 618-510-15 | 54 | 626-121-31 | 68 |
| 612-420-53 | 20 | 614-120-54 | 28 | 618-510-18 | 54 | 626-121-41 | 62 |
| 612-425-53 | 20 | 614-135-53 | 28 | 618-510-20 | 54 | 626-121-51 | 56 |
| 612-430-53 | 20 | 614-135-54 | 28 | 618-515-10 | 54 | 626-121-59 | 56 |
| 612-540-93 | 21 | 614-195-53 | 28 | 618-515-12 | 54 | 626-121-91 | 58 |
| 612-550-93 | 21 | 614-195-54 | 28 | 618-515-15 | 54 | 626-121-99 | 58 |
| 612-910-00 | 25 | 614-205-53 | 30 | 618-550-10 | 55 | 626-122-11 | 60 |
| 612-910-01 | 25 | 614-205-54 | 30 | 618-550-12 | 55 | 626-122-51 | 56 |
| 612-910-02 | 25 | 614-210-53 | 30 | 618-550-15 | 55 | 626-122-91 | 58 |
| 612-910-03 | 25 | 614-210-54 | 30 | 618-555-12 | 55 | 626-150-11 | 61 |
| 612-912-00 | 25 | 614-215-53 | 30 | 618-555-15 | 55 | 626-150-51 | 57 |
| 612-912-01 | 25 | 614-220-53 | 30 | 620-010-00 | 42 | 626-150-91 | 59 |
| 612-912-02 | 25 | 614-225-53 | 30 | 620-010-33 | 42 | 626-151-11 | 61 |
| 612-914-00 | 25 | 614-230-53 | 30 | 620-010-53 | 42 | 626-151-19 | 61 |
| 612-914-01 | 25 | 614-405-53 | 30 | 620-010-93 | 42 | 626-151-21 | 63 |
| 612-914-02 | 25 | 614-405-54 | 30 | 620-015-00 | 42 | 626-151-31 | 68 |
| 612-914-03 | 25 | 614-410-53 | 30 | 620-015-10 | 42 | 626-151-41 | 62 |
| 612-916-00 | 25 | 614-410-54 | 30 | 620-015-33 | 42 | 626-151-51 | 57 |
| 612-916-01 | 25 | 614-415-53 | 30 | 620-015-53 | 42 | 626-151-59 | 57 |
| 612-916-02 | 25 | 614-420-53 | 30 | 620-015-93 | 42 | 626-151-91 | 59 |
| 612-930-00 | 24 | 614-425-53 | 30 | 620-020-00 | 40 | 626-151-99 | 59 |
| 612-930-01 | 24 | 614-500-53 | 29 | 620-020-10 | 40 | 626-152-11 | 61 |
| 612-930-02 | 24 | 614-510-53 | 29 | 620-020-53 | 40 | 626-152-19 | 61 |
| 612-930-03 | 24 | 614-515-53 | 29 | 620-020-93 | 40 | 626-152-21 | 63 |
| 612-932-00 | 24 | 614-520-53 | 29 | 620-025-00 | 41 | 626-152-31 | 68 |
| 612-932-01 | 24 | 614-535-53 | 29 | 620-025-09 | 41 | 626-152-41 | 62 |
| 612-932-02 | 24 | 616-105-53 | 37 | 620-025-13 | 41 | 626-152-51 | 57 |
| 612-934-00 | 24 | 616-110-53 | 37 | 620-025-23 | 41 | 626-152-59 | 57 |
| 612-934-01 | 24 | 616-120-93 | 37 | 620-025-33 | 41 | 626-152-91 | 59 |
| 612-934-02 | 24 | 616-205-53 | 38 | 620-025-43 | 41 | 626-152-99 | 59 |
| 612-934-03 | 24 | 616-220-53 | 38 | 620-025-53 | 41 | 626-153-11 | 61 |
| 612-936-00 | 24 | 616-305-53 | 36 | 620-025-63 | 41 | 626-153-19 | 61 |
| 612-936-01 | 24 | 616-310-53 | 36 | 620-030-00 | 40 | 626-153-51 | 57 |
| 612-936-02 | 24 | 618-100-43 | 31 | 622-005-13 | 68 | 626-153-91 | 59 |
| 612-940-00 | 26 | 618-105-43 | 31 | 622-005-23 | 68 | 626-153-99 | 59 |



INDEX

| | | | |
|------------|----|------------|----|
| 626-154-11 | 61 | 628-242-53 | 49 |
| 626-154-51 | 57 | 628-244-53 | 49 |
| 626-154-91 | 59 | 628-246-53 | 49 |
| 626-155-11 | 61 | 628-248-53 | 49 |
| 626-155-19 | 61 | 628-250-53 | 49 |
| 626-155-51 | 57 | 628-252-53 | 49 |
| 626-155-59 | 57 | 628-292-03 | 48 |
| 626-155-91 | 59 | 628-292-03 | 78 |
| 626-155-99 | 59 | 628-293-03 | 48 |
| 626-156-11 | 61 | 628-293-03 | 78 |
| 626-156-51 | 57 | 628-294-03 | 48 |
| 626-156-91 | 59 | 628-294-03 | 78 |
| 626-170-11 | 60 | 628-295-03 | 48 |
| 626-170-15 | 62 | 628-295-03 | 78 |
| 626-170-20 | 63 | 628-299-00 | 48 |
| 626-170-50 | 56 | 628-299-00 | 78 |
| 626-170-90 | 58 | 628-302-52 | 50 |
| 626-171-11 | 60 | 628-302-53 | 50 |
| 626-171-15 | 62 | 628-306-52 | 50 |
| 626-171-20 | 63 | 628-306-53 | 50 |
| 626-171-50 | 56 | 628-341-53 | 51 |
| 626-171-90 | 58 | 628-342-53 | 51 |
| 626-175-00 | 58 | 628-343-53 | 51 |
| 626-175-11 | 60 | 628-344-53 | 51 |
| 626-175-50 | 56 | 628-346-53 | 51 |
| 626-178-95 | 58 | 628-350-53 | 51 |
| 626-178-95 | 60 | 628-352-53 | 51 |
| 626-179-22 | 63 | 628-401-53 | 69 |
| 626-180-15 | 60 | 628-402-52 | 69 |
| 626-180-95 | 58 | 628-402-53 | 69 |
| 626-182-15 | 60 | 628-444-52 | 69 |
| 626-182-95 | 31 | 628-444-53 | 69 |
| 626-182-95 | 58 | 628-446-52 | 69 |
| 626-190-06 | 64 | 628-446-53 | 69 |
| 626-190-11 | 64 | 700-100-53 | 84 |
| 626-190-13 | 64 | 700-110-53 | 84 |
| 626-191-11 | 64 | 700-115-53 | 84 |
| 628-101-00 | 52 | 700-120-53 | 84 |
| 628-101-99 | 52 | 700-135-53 | 84 |
| 628-105-00 | 52 | 750-000-00 | 84 |
| 628-110-53 | 52 | 750-010-00 | 84 |
| 628-115-53 | 52 | 750-020-00 | 84 |
| 628-115-54 | 52 | 750-030-00 | 84 |
| 628-140-53 | 52 | 750-040-00 | 84 |
| 628-140-54 | 52 | 750-050-00 | 84 |
| 628-142-53 | 52 | 750-060-00 | 84 |
| 628-144-53 | 52 | DRSO/ | |
| 628-144-54 | 52 | 00-108-005 | 81 |
| 628-201-52 | 48 | MAS-007 | 73 |
| 628-203-53 | 48 | | |
| 628-204-53 | 48 | | |
| 628-205-52 | 48 | | |
| 628-240-53 | 49 | | |



· WORLD WIDE DISTRIBUTION NETWORK ·



TONTARRA Medizintechnik GmbH
Daimlerstr. 15 · 78573 Wurmlingen/Germany
Tel: +49(0) 74 61/9 65 76 -0
Fax: +49(0) 74 61/9 65 76 -26
info@tontarra.de

www.tontarra.de



The current digital e-catalogues
can be found on our website:
<https://tontarra.de/en/products/e-catalogues>

All rights are reserved. Technical alterations are possible. This folder may be used for no other purpose than offering, buying and selling of our products. No part may be copied or reproduced in any form. In the case of misuse, we retain the rights to recall our catalogs and pricelists and to take legal actions.
999-450-03E · Rev. 10/23.05.2024