

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

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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°



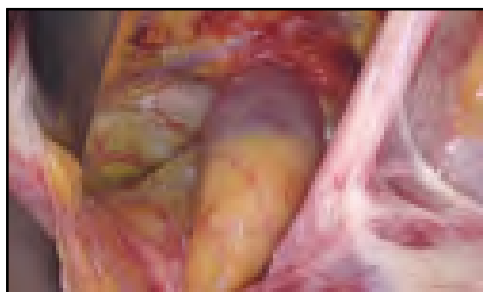
45°



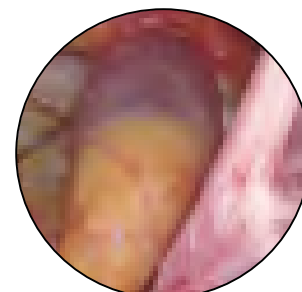
LAPAROSCOPY TELESCOPES HD, HD+, HD+2

- 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:

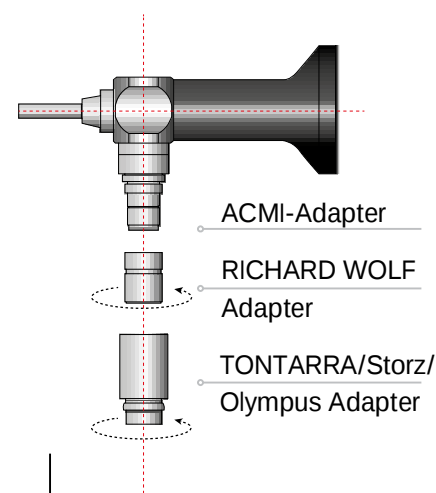
- A nearly constant resolution from center to edge
- More depth of field for minimal refocusing
- Even superior contrast for better detail recognition

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.

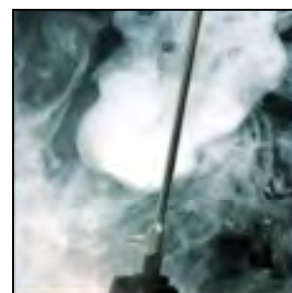
For further information please refer to our telescope catalogue, or contact us.



◀ 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	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				
Olympus new (switch)	540-890-14		Olympus new	540-880-04	
Richard Wolf	540-890-04		Wolf/Dyonics snap	540-880-13	
ACMI/British/Codman	540-890-01		ACMI/British/Codman	540-880-01	



LAPAROSCOPIC INSTRUMENTS

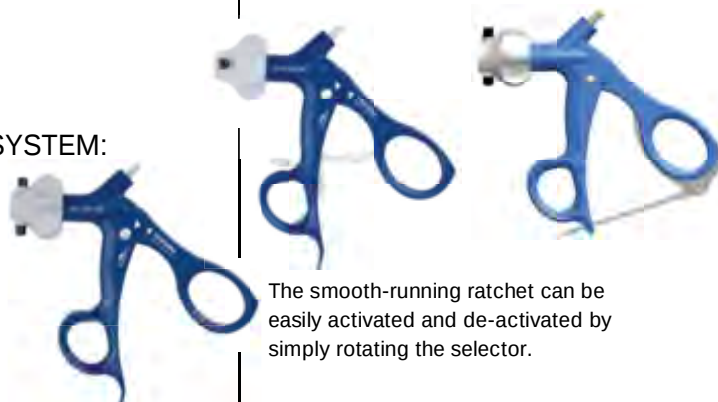
To design and develop laparoscopic high precision instruments has been in the focus of our attention for the last 30 years – today we proudly provide the complete range of high-quality instruments needed in laparoscopic surgery.



TONTARRA'S PORTFOLIO INCLUDES

ENDOOR **C** LAPAROSCOPY HF INSTRUMENT SYSTEM:

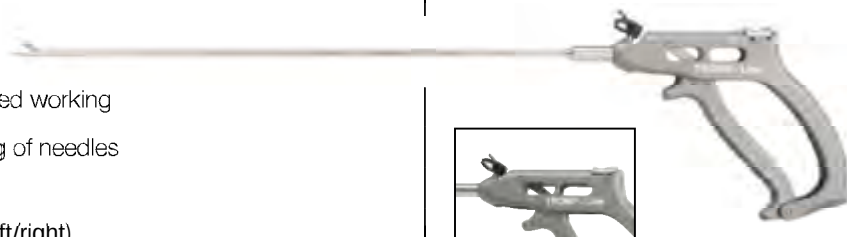
- ▶ Easy assembly and disassembly
- ▶ Easy cleaning (3 single parts & LuerLock flushing port)
- ▶ Ergonomic handle design for smooth maneuvering and a stress-free surgery
- ▶ Wide range of interchangeable high-precision Ø 5 mm and Ø 10 mm instrument inserts



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

NEEDLE HOLDER **TROMP-LINE**

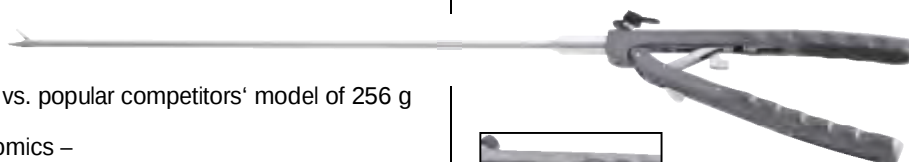
- ▶ Super light weighted – to facilitate relaxed working
- ▶ High grasping strength – secure holding of needles and suture-materials
- ▶ Pistol handle suitable for both hands (left/right)
- ▶ Included overload protection



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



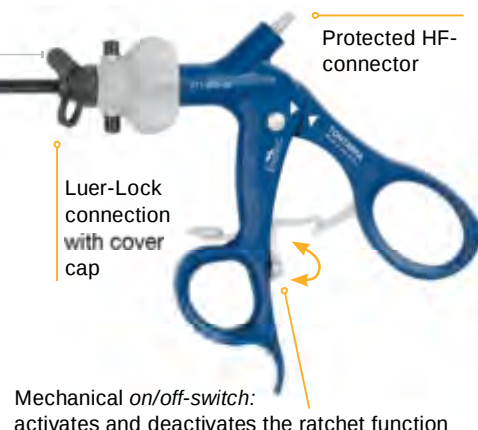
ENDOOR C – YOUR KEY TO PERFECT LAPAROSCOPIC PERFORMANCE

The high-end HF instrument system

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

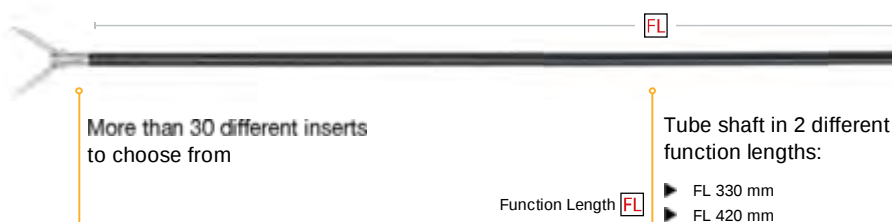
- ▶ Wide range of interchangeable high-precision $\varnothing 5 \text{ mm}$ and $\varnothing 10 \text{ mm}$ instrument inserts

HANDLE AVAILABLE WITH OR WITHOUT RATCHET



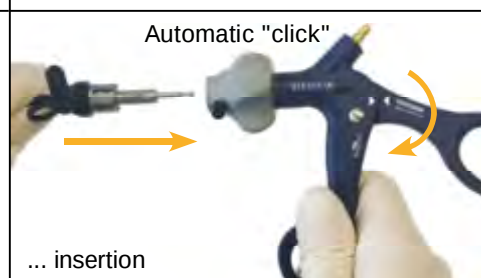
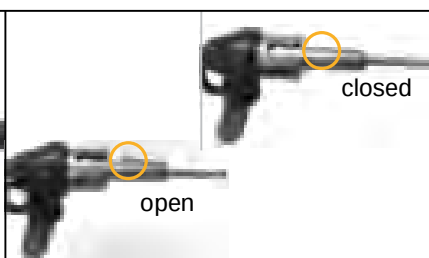
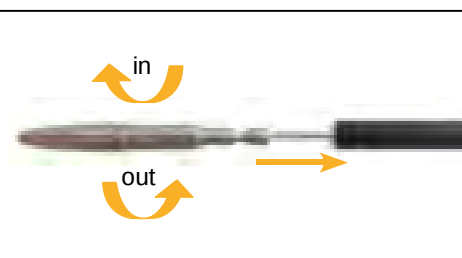
TECHNICAL SPECIFICATIONS

- ▶ 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



Placing/Removing the insert

... automatic bayonet locking



... insertion

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

Insertion/Removal of the working element



... press both buttons for removal



ENDOOR C LAPAROSCOPY HF INSTRUMENT SYSTEM

► For Ø 5.0 mm inserts



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	· 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; ~~287-815-30~~ 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	Round plug	
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	· 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 jaw/single action jaw



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

ENDOOR C – SCISSORS

▶ Ø 5.0 mm [. . .]

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		
	▶ blade 18 mm	FL 330 mm	611-110-53
METZENBAUM	▶ standard scissors straight		
	▶ serrated	FL 330 mm	611-112-53
	▶ blade 14 mm		



ENDOOR C – SCISSORS

▶ Ø 5.0 mm [. . .]

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 jaw



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

ENDOOR C – GRASPING FORCEPS; DISSECTORS

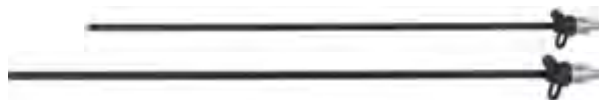
▶ Ø 5.0 mm [. . .]

Description		Art. No. insert		
NON-TRAUMATIC				
▶ dissecting and grasping forceps ▶ pointed ▶ straight	FL 330 mm FL 420 mm	611-200-53 611-200-54		
MARYLAND				
▶ dissecting and grasping forceps ▶ curved	FL 330 mm FL 420 mm	611-202-53 611-202-54		
MARYLAND DILIP				
▶ dissecting and grasping forceps ▶ tapered ▶ curved	FL 330 mm FL 420 mm	611-204-53 611-204-54		
MIXTER				
▶ dissecting and grasping forceps ▶ 90° angled	FL 330 mm	611-205-53		
MC KENAN				
▶ non-traumatic ▶ straight	FL 330 mm	611-206-53		
ALLIS				
▶ blade 38 mm	FL 330 mm	611-207-53		
DISSECTING AND GRASPING FORCEPS				
▶ fenestrated ▶ blade 16 mm	FL 330 mm FL 420 mm	611-210-53 611-210-54		
ENDO CLINCH				
▶ fenestrated ▶ straight	FL 330 mm FL 420 mm	611-212-53 611-212-54		
DOLPHIN				
▶ dissecting and grasping forceps ▶ straight	FL 330 mm	611-213-53		



ENDOOR C – LAPAROSCOPY HF INSTRUMENT INSERTS

- ▶ Ø 5.0 mm inserts
- ▶ Double action jaw



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

ENDOOR C – GRASPING FORCEPS; DISSECTORS

▶ Ø 5.0 mm [. . .]

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	FL 330 mm	611-216-53	
▶ blade 24 mm	FL 420 mm	611-216-54	
JOHAN			
▶ fenestrated			
▶ 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	
▶ 2 x 4 teeth			
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 jaw



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

ENDOOR C – GRASPING FORCEPS; DISSECTORS; BIOPSY

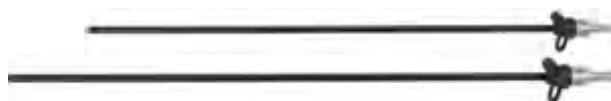
- ▶ Ø 5.0 mm [20.09.2011]

Description		Art. No. insert		
JOHAN	▶ up curved ▶ double fenestrated ▶ blade 23 mm	FL 330 mm	611-249-53	
JOHAN	▶ fenestrated ▶ blade 25 mm	FL 330 mm FL 420 mm	611-250-53 611-250-54	
JOHAN	▶ fenestrated ▶ blade 38 mm	FL 330 mm	611-251-53	
MANHES	▶ fine teeth	FL 330 mm FL 420 mm	611-252-53 611-252-54	
GRASPING FORCEPS	▶ 1 x 2 teeth	FL 330 mm	611-253-53	
WAVE FORCEPS	▶ wave style ▶ blade 22 mm	FL 330 mm	611-254-53	
CLAW FORCEPS	▶ straight ▶ blade 22 mm ▶ 2 x 3 teeth	FL 330 mm	611-256-53	
DISSECTOR	▶ strong curved ▶ delicate serrated	FL 330 mm	611-258-53	



ENDOOR C – LAPAROSCOPY HF 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 []

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 jaw

ENDOOR C – HANDLES

LL

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

LL

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 ▶ double action jaw	FL 330 mm 611-400-93	
SPOON FORCEPS ▶ double action jaw	FL 330 mm 611-406-93	
MIXTER GRASPING FORCEPS ▶ 90° angled ▶ double action jaw	FL 330 mm 611-429-93	

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

Available for following units:	Diameter	3.0 m	5.0 m	Instrument side Round plug	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		



LAPAROSCOPY INSTRUMENTS

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



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

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



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

Description	without ratchet		with ratchet	
	Art. No.	Art. No.		
▶ Diameter Ø 5.0 mm ▶ with cleaning channel & LuerLock connector				
GRASPING FORCEPS CURVED ▶ blade 22 mm	612-305-53	612-405-53		
GRASPING FORCEPS NON TRAUMATIC	612-310-53	612-410-53		
MAHNES GRASPING FORCEPS	612-315-53	612-415-53		
DORSEY GRASPING FORCEPS ▶ fenestrated ▶ blade 16 mm	612-320-53	612-420-53		
DORSEY MODIFIED GRASPING FORCEPS ▶ fenestrated ▶ blade 12 mm	612-325-53	612-425-53		
DORSEY INTESTINAL GRASPING FORCEPS ▶ fenestrated ▶ blade 30 mm	612-330-53	612-430-53		



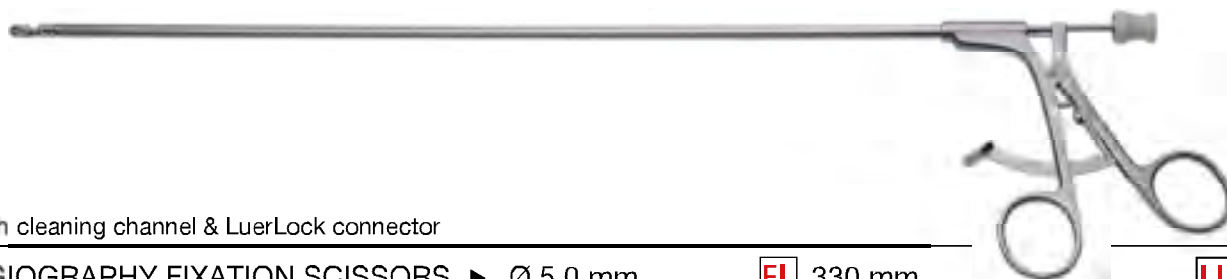
LAPAROSCOPY INSTRUMENTS

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



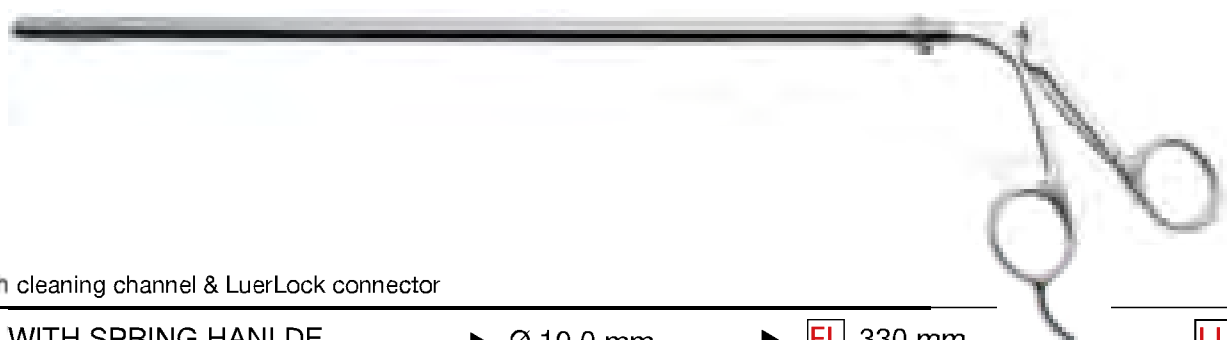
- ▶ with cleaning channel & LuerLock connector

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



- ▶ with cleaning channel & LuerLock connector

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



- ▶ with cleaning channel & LuerLock connector

FORCEPS WITH SPRING HANDLE		▶ 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

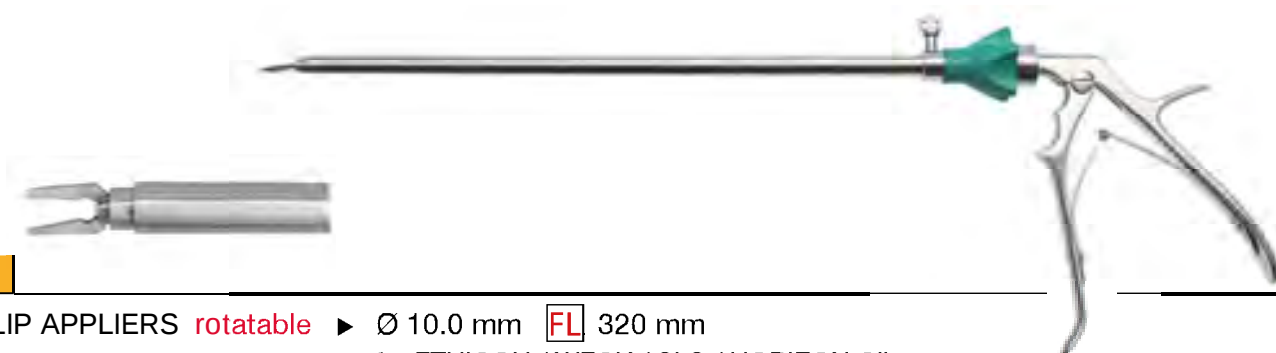


CLIP APPLIERS



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

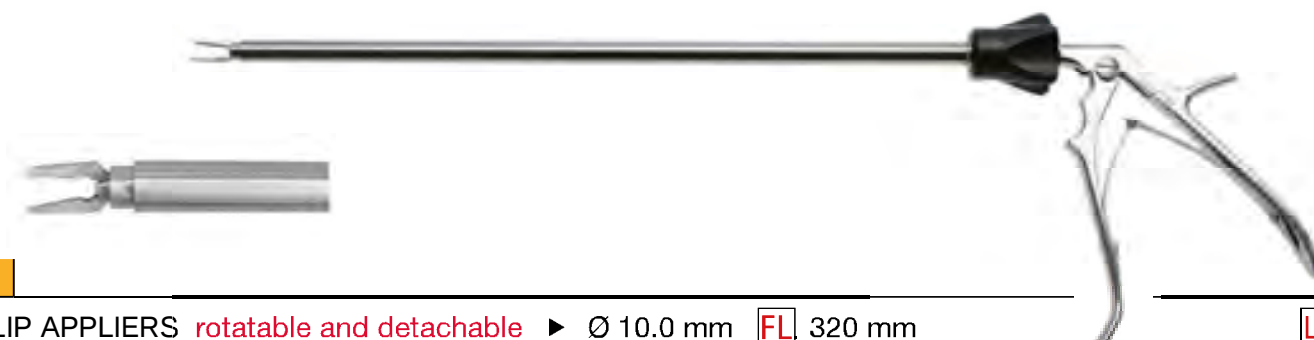
LL

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

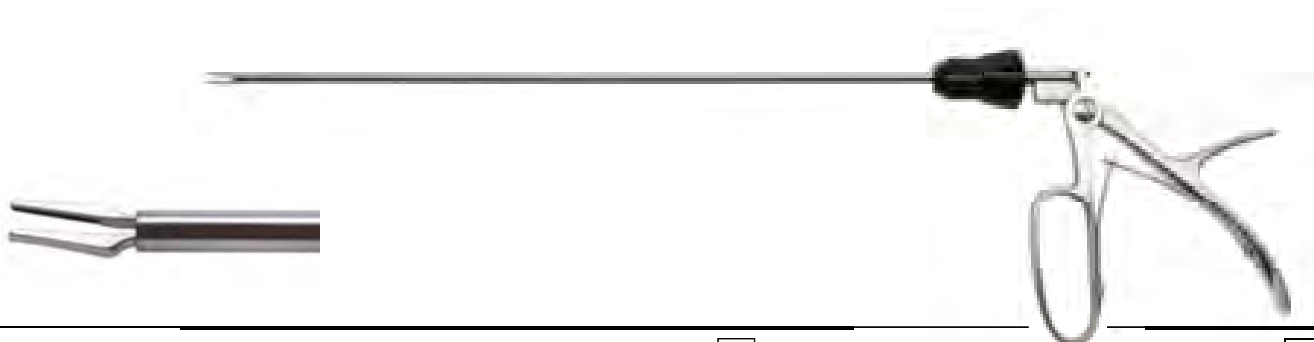
LL

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



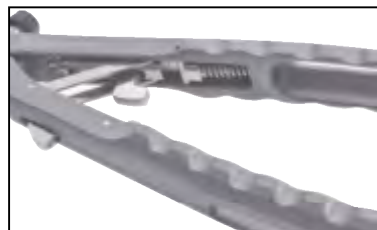
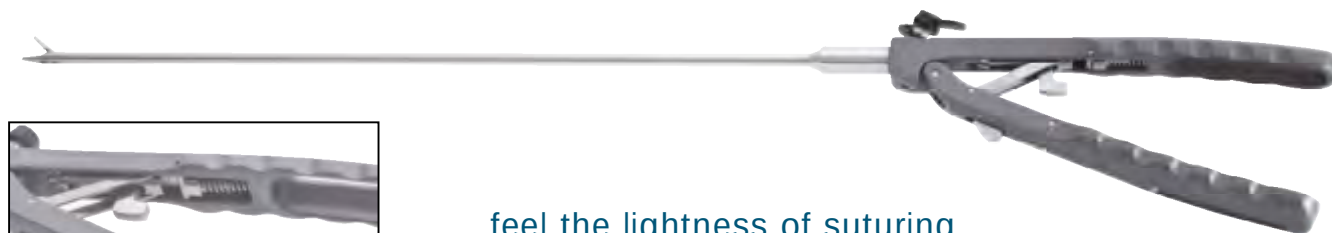
LOFTLINE Needle holder



NEEDLE HOLDER LOFTLINE

► **NEEDLE HOLDER**

► With LuerLock connector



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

NEEDLE HOLDER

► 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-(Sk), V 20]



NEEDLE HOLDER TROMP-LINE

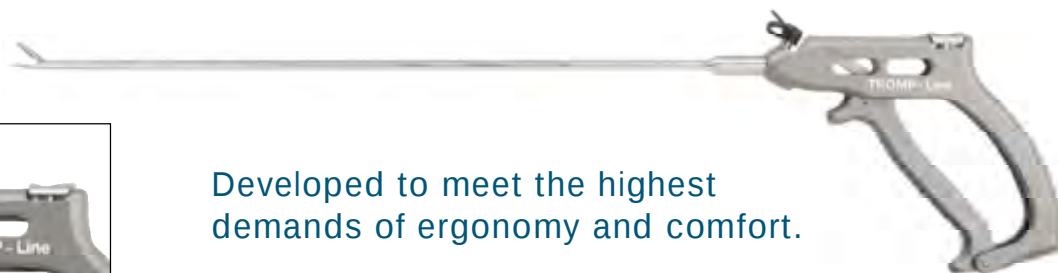
- ▶ **With LuerLock connector**



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

▶ 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-(Sk), 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**

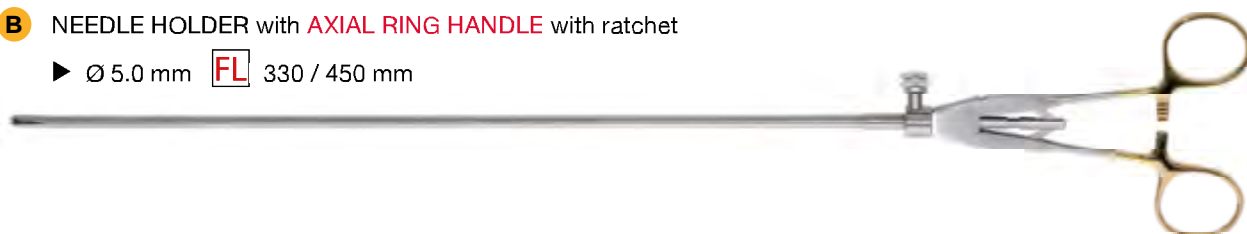
A NEEDLE HOLDER with ~~axial ring handle~~ with ratchet

- ▶ 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



KNOT PUSHERS

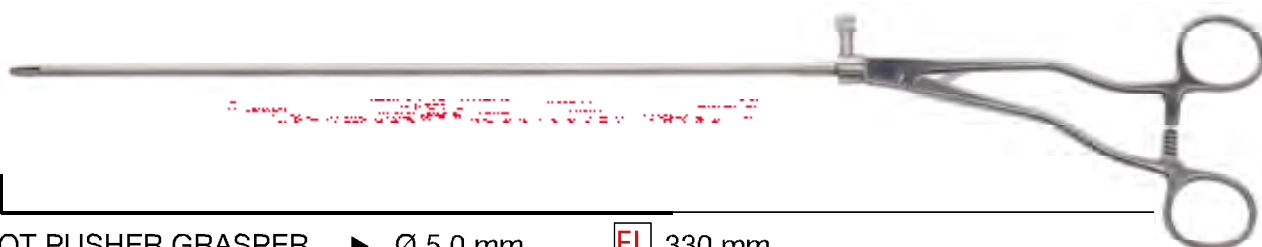
► Ø 4.0 / 4.5 mm **FL** 330 mm

		
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

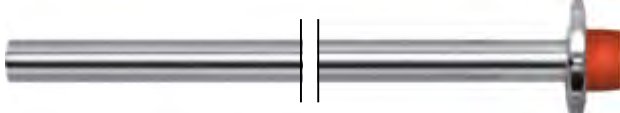
WITH 4 PINS	
Ø 5.0 mm	
618-180-53	



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

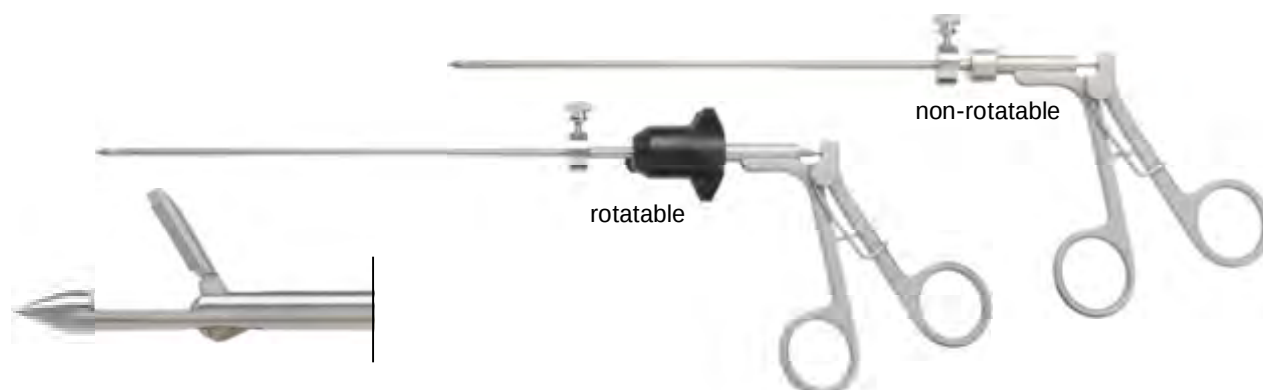
REDUCER SLEEVE

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



SUTURE SETS

- Suture fascia fix forceps



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 ▶ Ø 2.3 mm **FL** 140 mm

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



1

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.

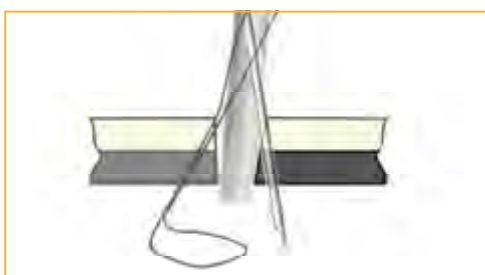


2

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".



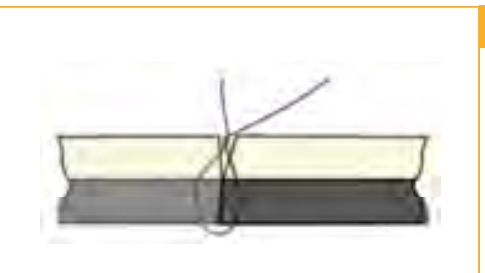
3

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.



4

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.



5





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 LL	
Description	Art. No.
▶ bendable	616-105-53



3 FINGER RETRACTOR ▶ Ø 5.0 mm FL 340 mm LL	
Description	Art. No.
▶ LIVER ELEVATOR ▶ bendable	616-110-53



5 FINGER RETRACTOR ▶ Ø 10.0 mm FL 340 mm LL	
Description	Art. No.
▶ LIVER ELEVATOR ▶ bendable	616-120-93



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.
▶ LIVER ELEVATOR ▶ with LuerLock connector	616-205-53



5 FINGER RETRACTOR

▶ Ø 10.0 mm FL 330 mm

Description	Art. No.
▶ 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

SUCTION IRRIGATION TUBE Ø 5.0 mm
with LUERLOCK STOPCOCK

FL 330 mm

LL

620-030-00



SUCTION- / IRRIGATION HANDLE SYSTEM with

Description

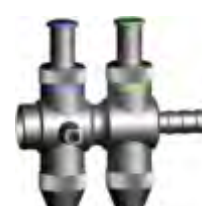
LL

SUCTION IRRIGATION HANDLE with **LARGE TUBE**
maximum suction flow: Ø 10.0 mm



620-020-00

SUCTION IRRIGATION HANDLE with **SMALL TUBE**
maximum suction flow: Ø 6.5 mm



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 or

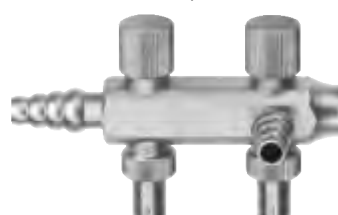
Description

SUCTION IRRIGATION HANDLE with , tube connectors



620-025-00

SUCTION IRRIGATION HANDLE with , tube connectors



620-025-09

Description

SUCTION IRRIGATION TUBES Ø 5.0 mm  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 "Suction-Irrigation" or "Suction-Irrigation"

Description	Art. No.	
SUCTION IRRIGATION PISTOL "Suction-Irrigation"; 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

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

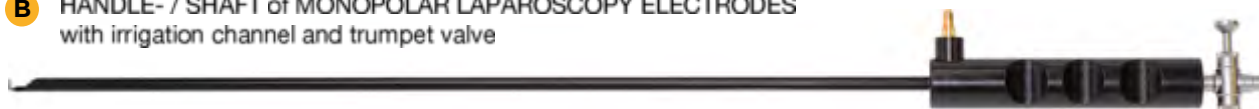
Choose among the different handle- / shaft models for the laparoscopic electrodes shown on the next page.

A HANDLE- / SHAFT of MONOPOLAR LAPAROSCOPY ELECTRODES



Electrodes [see previous chapter](#)

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



Electrodes [see previous chapter](#)

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



Electrodes [see previous chapter](#)

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



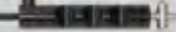
SUCTION-/ IRRIGATION tubes
Ø 3.0 / 5.0 / 10.0 mm
Art. No.'s see previous chapter



HF-ELECTRODES **MONOPOLAR**

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

HF-ELECTRODES  Ø 5.0 mm FL 330 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	622-010-13	622-030-13	622-050-13	
J- HOOK ELECTRODE	622-010-23	622-030-23	622-050-23	
L- HOOK ELECTRODE	622-010-33	622-030-33	622-050-33	
SPATULA ELECTRODE	622-010-43	622-030-43	622-050-43	
IRRIGATION ELECTRODE	–	622-030-53	–	
NEEDLE ELECTRODE	–	–	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



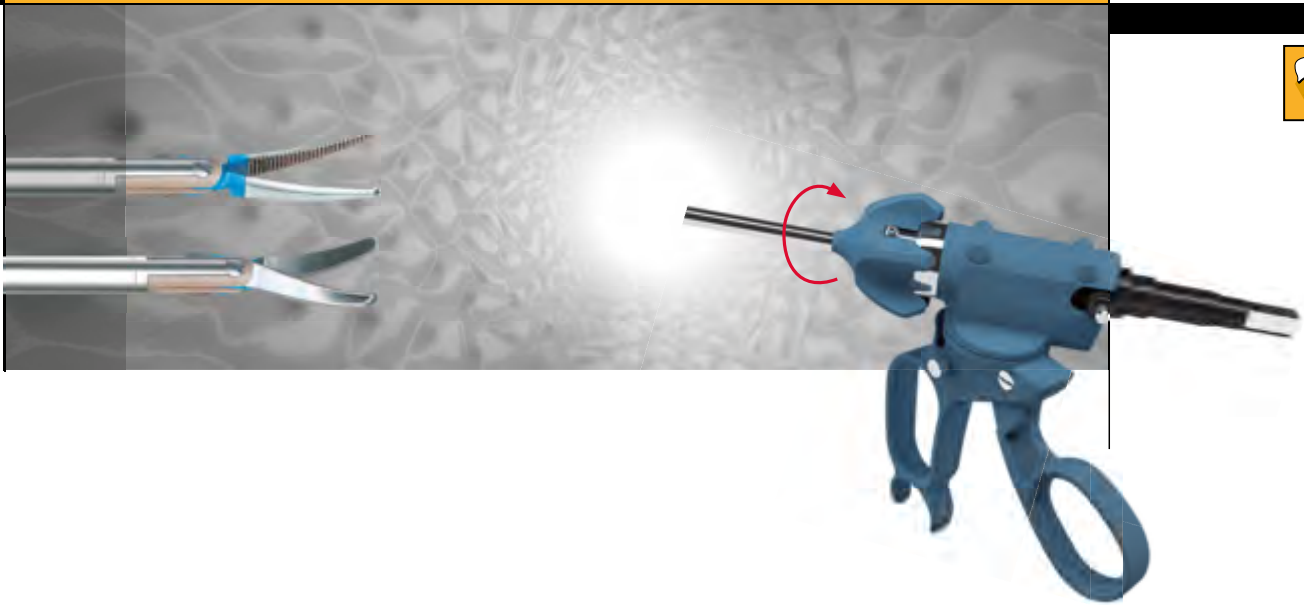
HF-NEEDLE ELECTRODE ~~287-815-30~~ Ø 5.0 mm **FL** 320 mm

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

HF CONNECTION CABLES: ~~287-815-30~~ 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		





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 628-292-03 628-293-03 628-294-03 628-295-03	Instrument side Round plug 	For further information and pictures see the overview about cables in the chapter "HF Generator & Connection cables".
	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 287-200-30 287-205-30 287-210-30 287-215-30	5.0 m 287-200-50 287-205-50 287-210-50 287-215-50	Instrument side Flat plug 	For further information and pictures see the overview about cables in the chapter "HF Generator & Connection cables".

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

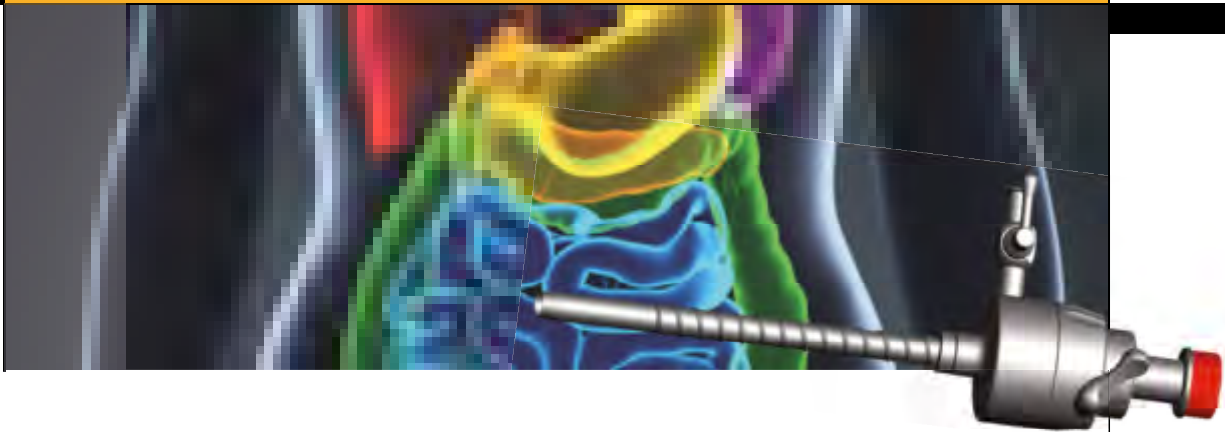
Description	Art. No.	
MICRO GRASPER	628-341-53	
GRASPING FORCEPS ▶ delicate curved	628-342-53	
GRASPING FORCEPS ▶ curved	628-343-53	
GRASPING FORCEPS ▶ fenestrated	628-344-53	
MARYLAND ▶ curved	628-346-53	
METZENBAUM SCISSORS ▶ curved	628-350-53	
GRASPING FORCEPS; LARGE ▶ with P-coat insulation*	628-352-53	

* 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; International Models; 2 pins; Ø 4.0 mm	287-215-30	287-215-50		





VERES CANNULA TROCAR SYSTEMS



VERES INSUFFLATION CANNULA

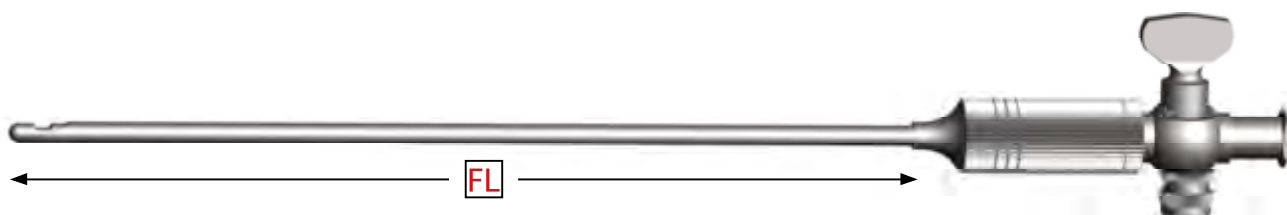
▷ Ø 2.0 / 2.7 mm



VERES INSUFFLATION CANNULA Ø 2.0 mm

LL

FL	Art. No.	FL	Art. No.
FL 55 mm	618-510-05	FL 140 mm	618-510-14
FL 70 mm	618-510-07	FL 150 mm	618-510-15
FL 80 mm	618-510-08	FL 170 mm	618-510-17
FL 100 mm	618-510-10	FL 180 mm	618-510-18
FL 120 mm	618-510-12	FL 200 mm	618-510-20
FL 130 mm	618-510-13	FL 230 mm	618-510-23



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	FL 170 mm	618-515-17

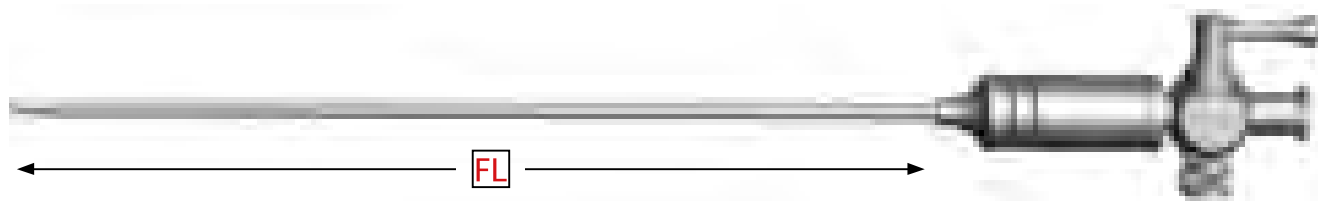
SPARE PART

Description	Art. No.	
SPRING CAP for cock plug 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

LL

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

LL

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

SPARE PART

Description	Art. No.	
SPRING CAP for cock plug and cock plug	087-945-02	



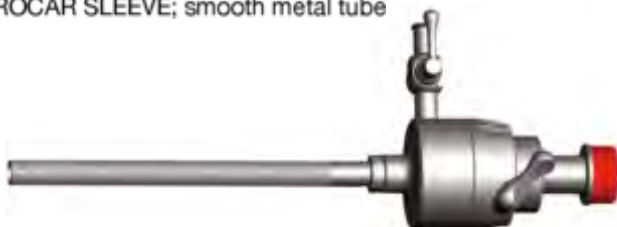
TROCAR SYSTEMS

- ▶ 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

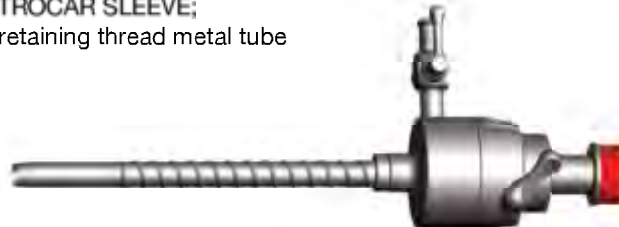
TROCAR SLEEVE; smooth metal tube



Compatible to Hasson trocar system, see overview page 64

TROCAR SLEEVE;

retaining thread metal tube



Size

Ø 5.5 mm / FL 95 mm

Art. No.

626-121-51

Ø 5.5 mm / FL 150 mm

626-121-59

Size

Ø 5.5 mm / FL 95 mm

Art. No.

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

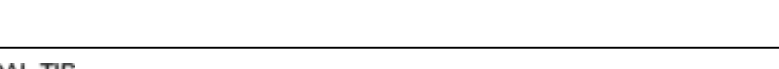
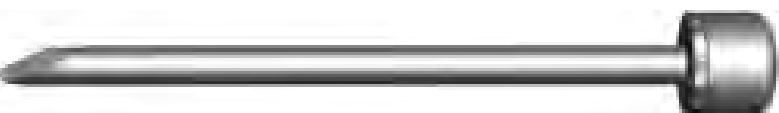
626-171-50



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 CONICAL TIP ▶ with hole 	626-150-51	–
with PYRAMIDAL TIP 	626-152-51	626-152-59
with PYRAMIDAL TIP ▶ hollow grinding ▶ with hole 	626-153-51	–
PROTECTION TROCAR 	626-154-51	–
SAFETY TROCAR ▶ pyramidal 	626-155-51	626-155-59
SAFETY TROCAR ▶ with knife 	626-156-51	–
HASSON CONE ▶ adjustable with suture holder	See OVERVIEW Hasson Trocars on the last page of this chapter	



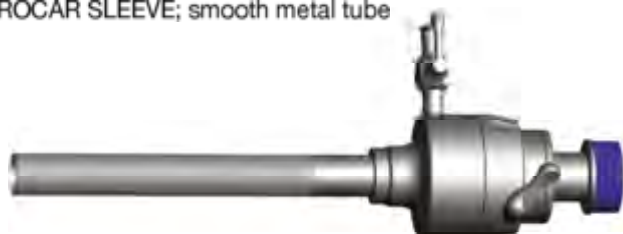
TROCAR SYSTEMS

- 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

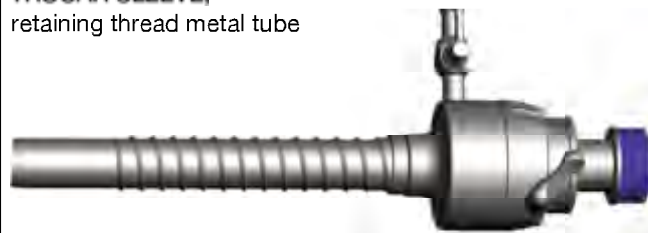
Description

TROCAR SLEEVE; smooth metal tube



Compatible to Hasson trocar system, see overview page 64

TROCAR SLEEVE;
retaining thread metal tube



Size

Ø 11.0 mm / FL 100 mm

Art. No.

626-121-91

Ø 11.0 mm / FL 150 mm

626-121-99

Size

Ø 11.0 mm / FL 100 mm

Art. No.

626-122-91

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

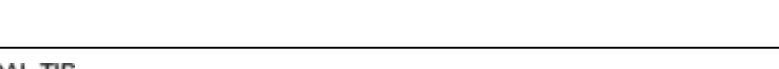
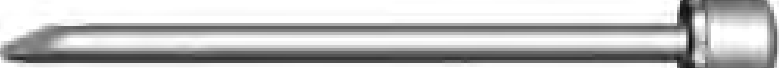
626-180-95



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 CONICAL TIP ▶ with hole 	626-150-91	–
with PYRAMIDAL TIP 	626-152-91	626-152-99
with PYRAMIDAL TIP ▶ hollow grinding ▶ with hole 	626-153-91	626-153-99
PROTECTION TROCAR 	626-154-91	–
SAFETY TROCAR ▶ pyramidal 	626-155-91	626-155-99
SAFETY TROCAR ▶ with knife 	626-156-91	–
HASSON CONE ▶ adjustable with suture holder	See OVERVIEW Hasson Trocars on the last page of this chapter	
HASSON CONE ▶ threaded ▶ suture holder not needed		



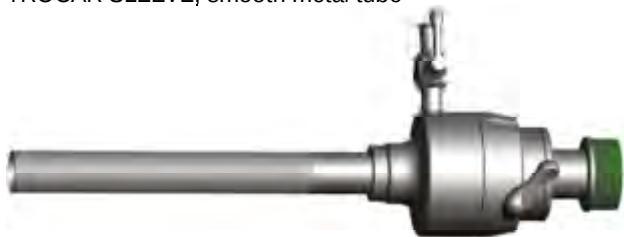
TROCAR SYSTEMS

- Sleeves & accessories Ø 12.5 mm ► FL 98 / 150 mm
- For Ø 12.5 mm instruments FL 98 / 150 mm

TROCAR SLEEVES & ACCESSORIES ► Ø 12.5 mm manual opening lever FL 98 / 150 mm

Description

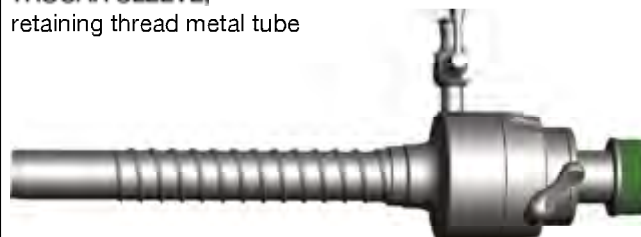
TROCAR SLEEVE; smooth metal tube



Compatible to Hasson trocar system, see overview page 64

TROCAR SLEEVE;

retaining thread metal tube



Size

Art. No.

Ø 12.5 mm / FL 98 mm

626-121-11

Ø 12.5 mm / FL 150 mm

626-121-19

Size

Art. No.

Ø 12.5 mm / FL 98 mm

626-122-11

Description



TROCAR STOP; retaining thread
Ø 12.5 mm / FL 35 mm

626-175-11



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

626-170-11



SPARE PART SET;
10 pcs./box

626-171-11

Description



REDUCER SLEEVE; Ø 12.5 mm to 5.5 mm

626-182-15

Description



REDUCER; Ø 11.0 / 12.5 mm to 5.5 mm

626-178-95



REDUCER; Ø 11.0 / 12.5 mm to 5.5 mm

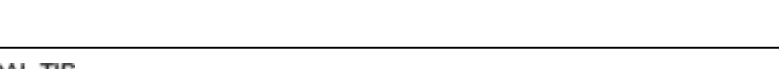
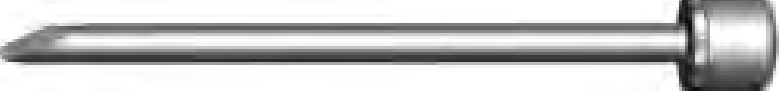
626-180-15



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 CONICAL TIP ▶ with hole 	626-150-11	–
with PYRAMIDAL TIP 	626-152-11	626-152-19
with PYRAMIDAL TIP ▶ hollow grinding ▶ with hole 	626-153-11	626-153-19
PROTECTION TROCAR 	626-154-11	–
SAFETY TROCAR ▶ pyramidal 	626-155-11	626-155-19
SAFETY TROCAR ▶ with knife 	626-156-11	–



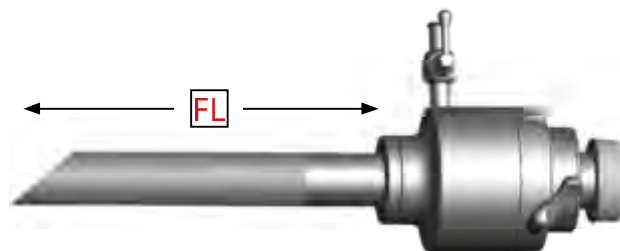
TROCAR SYSTEMS

- ▶ 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



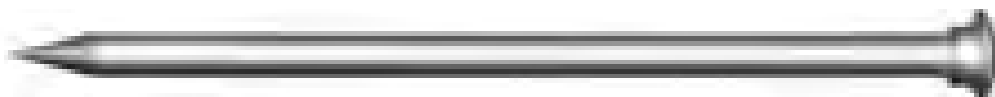
Size

Ø 15.0 mm / FL 110 mm

Art. No.

626-121-41

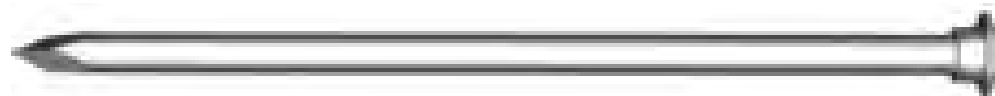
TROCAR Conical Tip



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



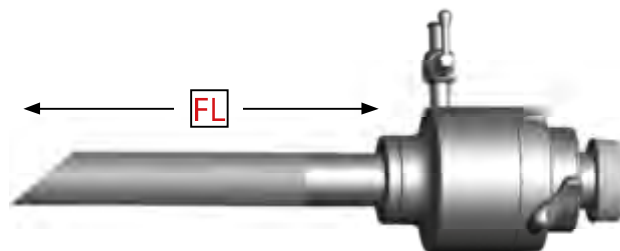
TROCAR SYSTEMS

- ▶ 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



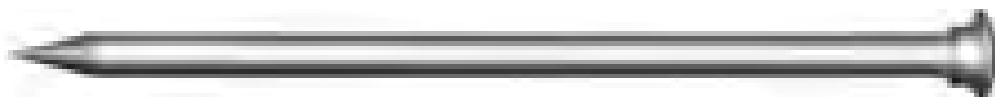
Size

Ø 20.0 mm / FL 119 mm

Art. No.

626-121-21

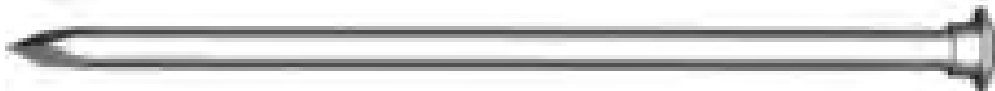
TROCAR Conical Tip



for FL 190 mm

626-151-21

TROCAR Pyramidal Tip



for FL 190 mm

626-152-21

Description



10 pcs./box



10 pcs./box

SEALING CAP;
Ø 20.0 mm (grey)

SPARE PART SET

626-170-20

626-171-20



HASSON SYSTEM

- ▶ Trocars (blunt or alternative)
- ▶ Cones

HASSON CONES

HASSON CONE		
Description/Size	adjustable with suture holder	threaded
For Ø 5.5 mm system/ FL 95 mm	626-190-06	conic trocar/ see tab below
For Ø 11.0 mm system/ FL 100 mm	626-190-11	626-191-11
For Ø 12.5 mm system/ FL 98 mm	626-190-13	conic trocar/see tab below



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	conic trocar/see overview below
For Ø 11.0 mm system	FL 100 mm	626-157-91	FL 150 mm	626-157-99
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		 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)



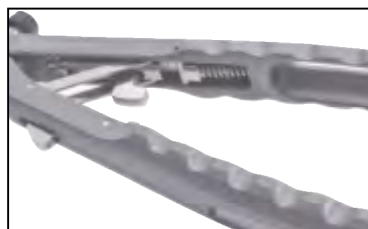
PEDIATRIC LAPAROSCOPY

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	

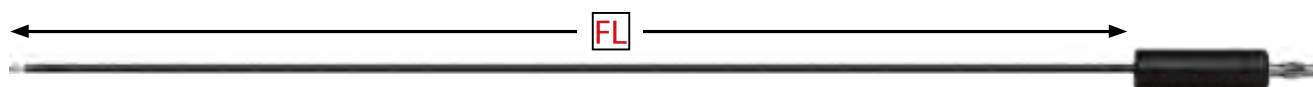
Recommended needle & suturing material

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

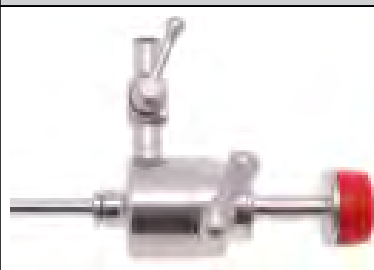
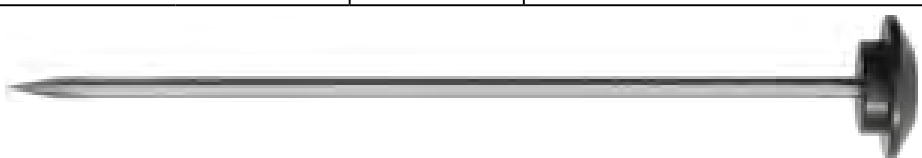
► For pediatric use



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

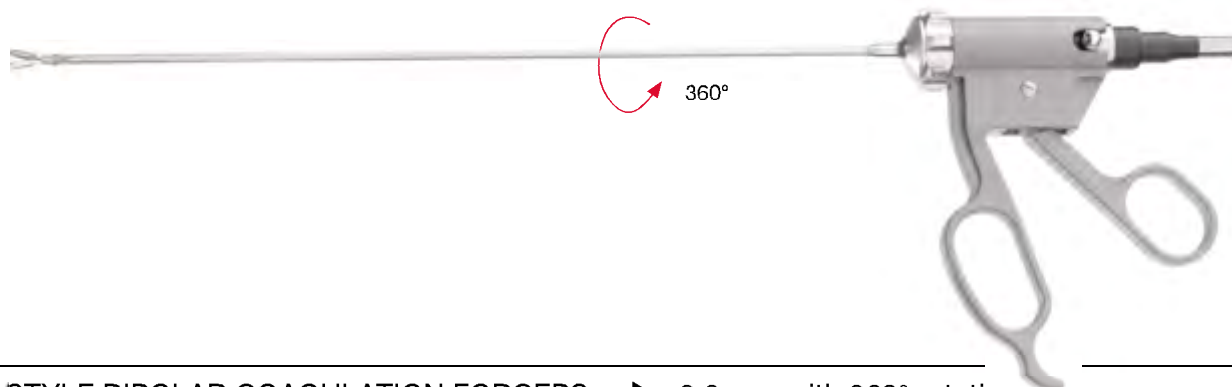
Description	Art. No.	
BUTTON ELECTRODE	622-005-13	
J- HOOK ELECTRODE	622-005-23	
L- HOOK ELECTRODE	622-005-33	

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

► Cholangiography fixation forceps



CHOLEANGOGRAPHY FIXATION FORCEPS; DISPOSABLE Ø 5.0 mm FL 330 mm



Description	Art. No.
OLSEN SWAN 	MAS-007





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 presets
- 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

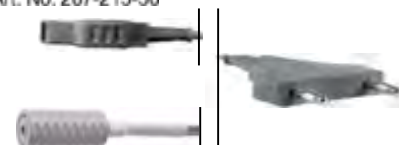
5 m: Art. No. 287-815-50



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; ~~for laparoscopic HF electrodes~~ 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		

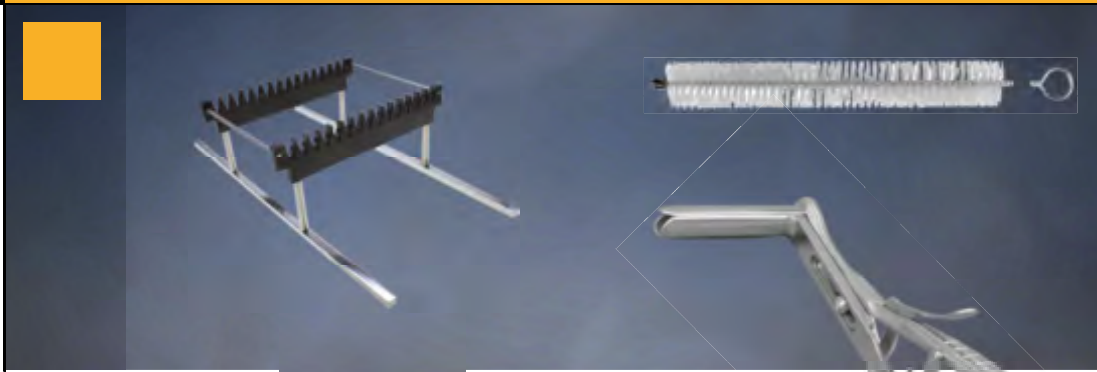
* not for Martin ME411; MD62

** 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 ▶ Ø 5.0 mm

Description	
	
Size	Art. No.
FL 330 mm	618-190-53
FL 450 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 ~~ENDOSCOPES~~ INSTRUMENTS

Description	
	
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	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
499-200-30 (box of 5 pcs.)	499-201-30 (box of 5 pcs.)
	
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	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
499-202-45 (box of 5 pcs.)	499-203-39 (box of 10 pcs.)

LUERLOCK CLOSING GAPS

Description	
LuerLock CLOSING GAP standard 10 pcs./unit 	Luer Lock CLOSING GAP with silicone; 10 pcs./unit 
087-950-01 (box of 10 pcs.)	087-955-01 (box of 10 pcs.)

MAINTENANCE

Description		Art. No.
TAP & STOPCOCK LUBRICANT ► special grease for surgical instruments (specially for stopcocks) ► 5 g tube		582-095-00
INSTRUMENT OIL ► 500 ml		DRSO/00-108-005
POLISHING PASTE FOR ENDOSCOPES ► 5 pcs.		601-900-20



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.	
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

- 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 [PERFORATED]

Description	Aluminium	Polymer	1 2 3 4 5 6
► Lid perforated	260-100-03Y	260-101-03Y	Please put the color number instead of the "X" into the article number when ordering.
► Safety lid	260-103-03Y	—	

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

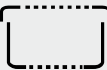


ACCESSORIES

- Storage, sterilization and protection of telescopes



TELESCOPE CONTAINER

Description		450 x 70 x 70 mm	250 x 60 x 50 mm	 Lid and bottom perforated; complete  Outside dimension
	► silver	260-602-01Y	260-601-01Y	
	► 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.	 Container height  Outside dimension
Wire basket	► 290 x 80 x 55 mm	1	260-600-03Y	
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.
PROTECTING SLEEVE FOR ALL TELESCOPES ► 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

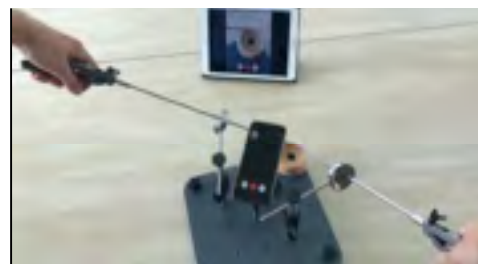
You bring your mobile equipment, install the App, order two TRAINING Needle Holders and the **SUTURE TRAINING SIMULATOR SET** – then you can start!



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



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



CHOOSE YOUR NEEDLE HOLDERS; SEE EXAMPLES BELOW

TRAINING NEEDLE HOLDER

▶ FL 330 mm; Ø 5.0 mm

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

* no medical product – non autoclavable



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