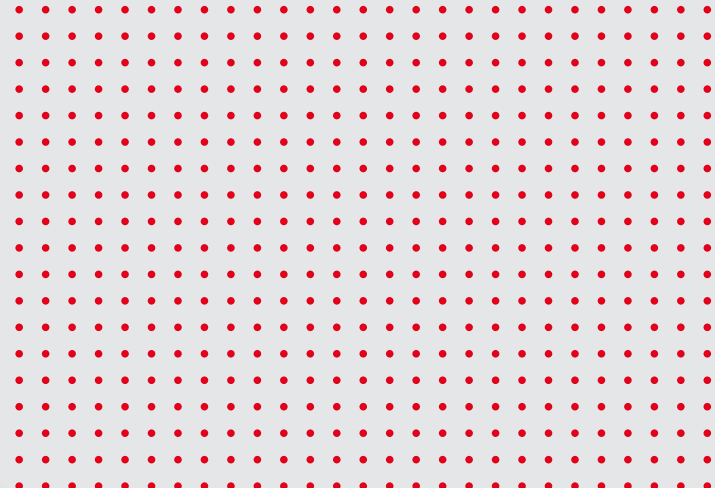
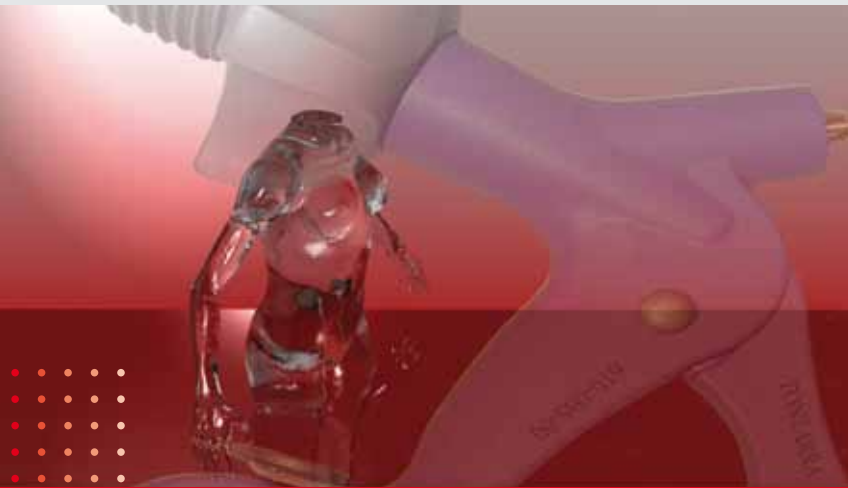




TONTARRA **Medizintechnik GmbH**
Surgical Instruments in Demand

Laparoscopy

Über uns | *About us*



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

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

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

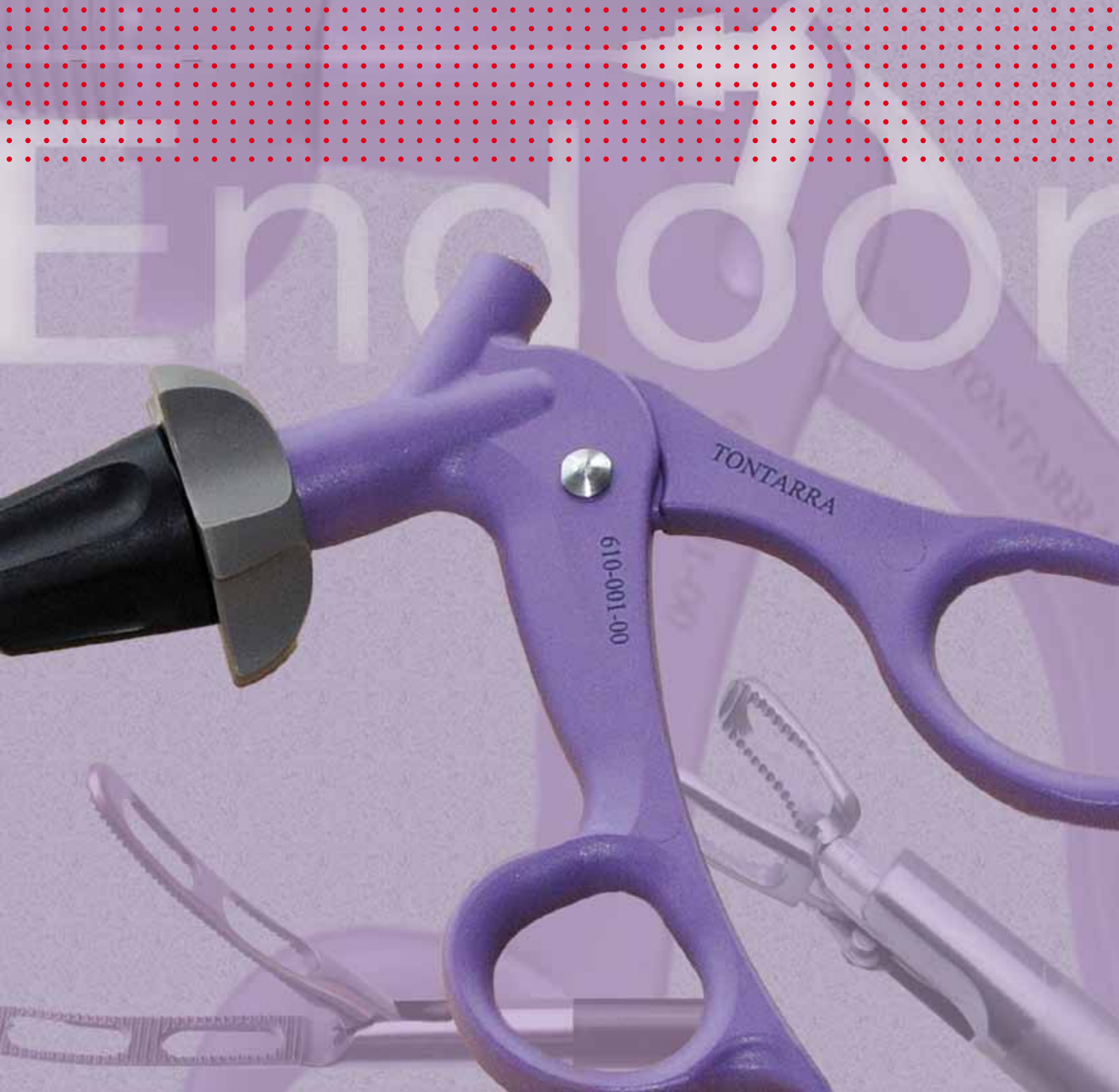
For more than 40 years TONTARRA has been recognized as a leader in quality and precision manufacturing of surgical instruments by continually implementing the latest advances in technology and production.

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

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

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





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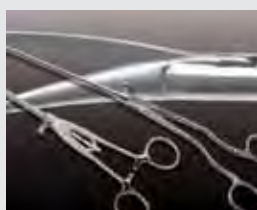
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Technische Änderungen vorbehalten.
We reserve the right to technical modifications.
Nos reservamos el derecho de modificaciones técnicas.
Ci riserviamo il diritto di modifiche tecniche.

Endoor

3-part designed laparoscopy instrument system

Endoor general information

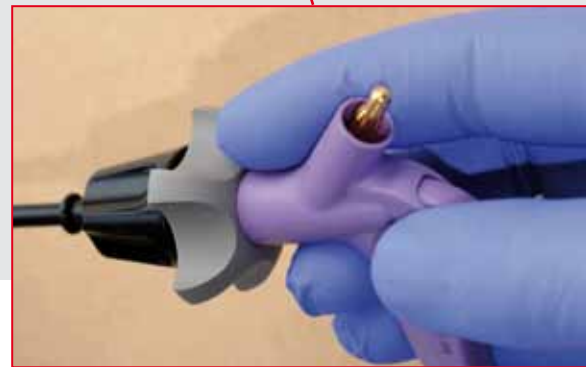
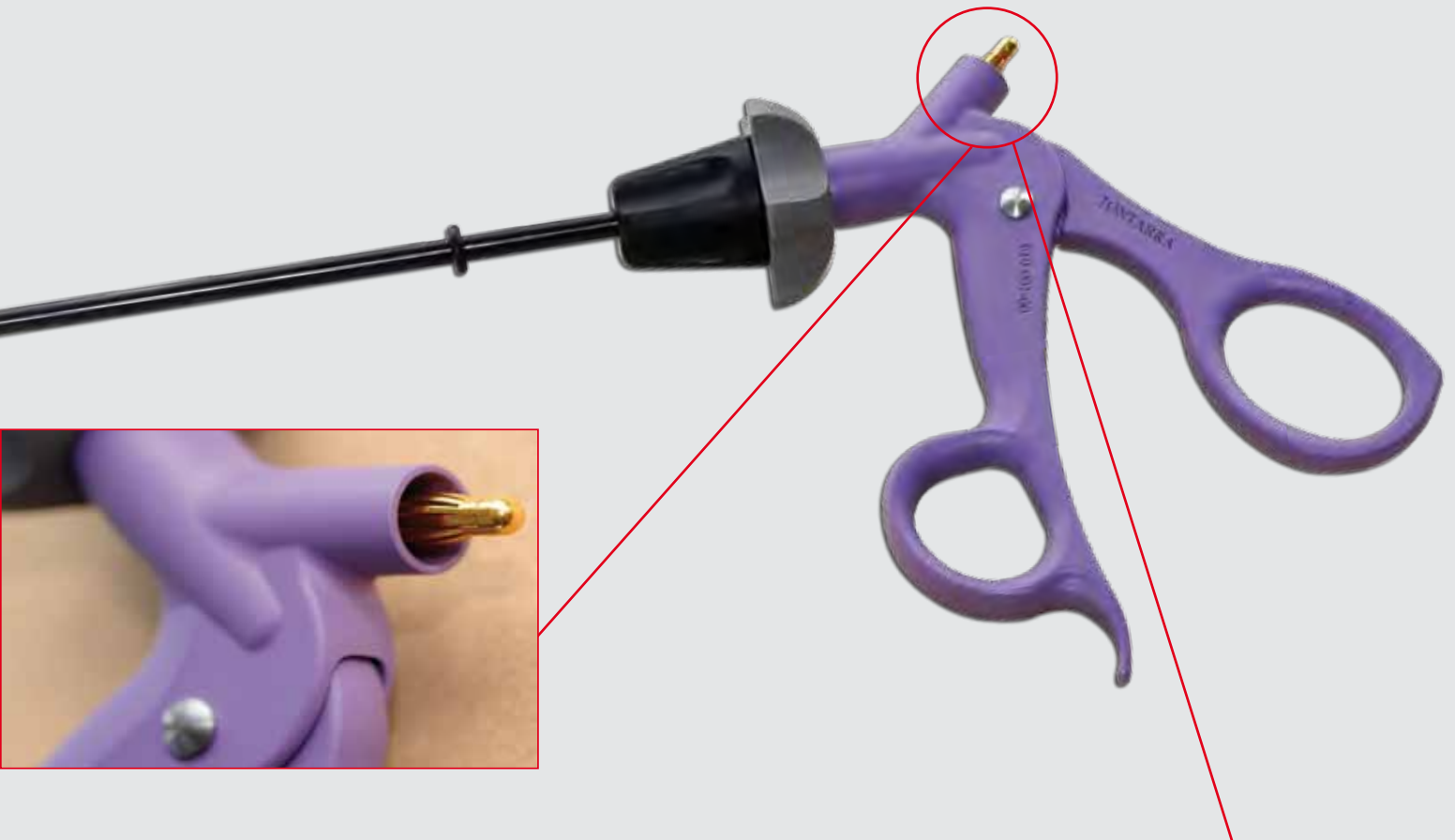


Technical Specifications:

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

Manufacturing:

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



Ergonomics:

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



Endoor laparoscopy instrument system

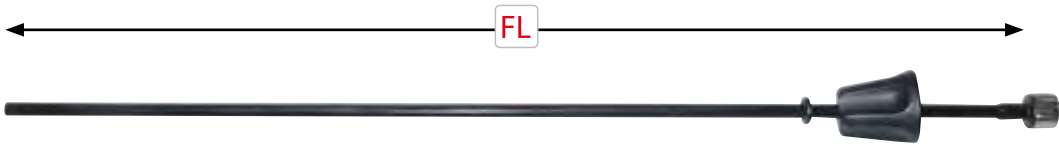
Art.Nr.	Description	Size	Spez.
610-001-00	Endoor handle; without ratchet		
610-005-00	Endoor handle; with ratchet ratchet can be optionally activated or deactivated		
610-060-00	Endoor rinsing adapter for handle; with cup nut; with Luer Lock connection	 	

rinsing adapter connected at the handle

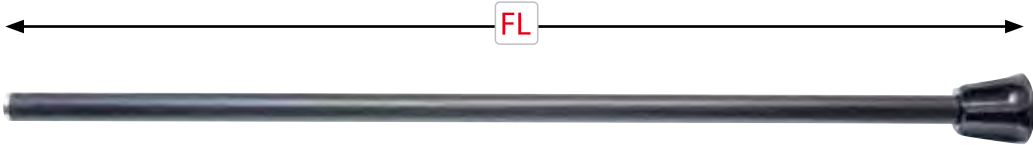
monopolar cables see page 41

Endoor laparoscopy instrument system

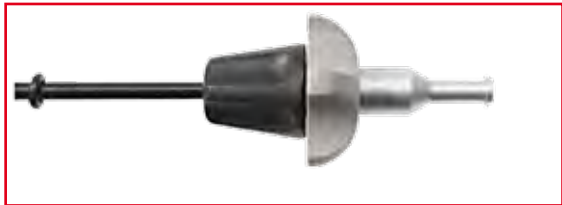
Art.Nr.	Description	Size	Spez.
610-010-53	Endoor shaft insulated with cup nut	Ø 5,0 mm; FL 330 mm	
610-010-54	Endoor shaft insulated with cup nut	Ø 5,0 mm; FL 420 mm	



610-020-93	Endoor shaft insulated with cup nut	Ø 10,0 mm; FL 330 mm	
610-020-94	Endoor shaft insulated with cup nut	Ø 10,0 mm; FL 420 mm	



610-050-00	Endoor rinsing adapter for shaft; with Luer Lock connection		
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rinsing adapter connected at the shaft

Ø 3 mm Endoor laparoscopy instrument system see page 66



Endoor laparoscopy instrument inserts Ø 5 mm

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

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

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



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

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

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

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



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

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

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

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





Endoor laparoscopy instrument inserts Ø 10 mm; single action

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

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

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



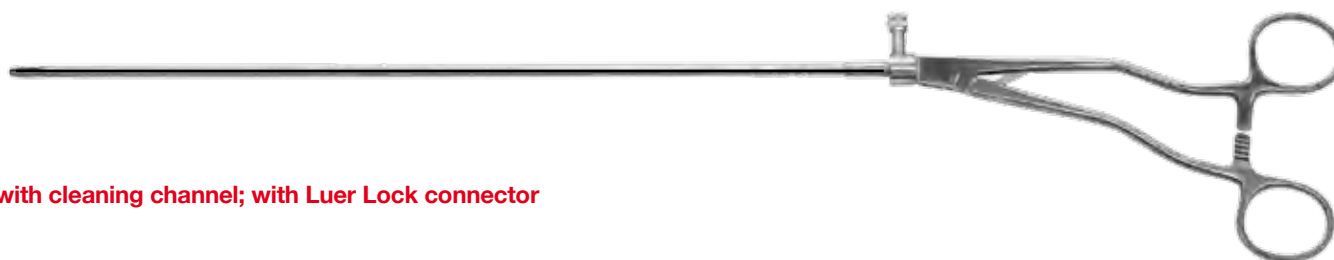
**Laparoscopic instruments with wave ring handle;
without ratchet**

with cleaning channel; with Luer Lock connector



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

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



with cleaning channel; with Luer Lock connector

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



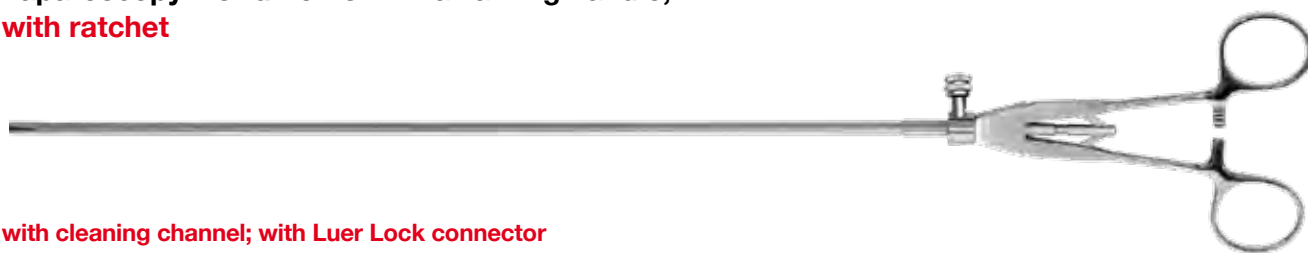
**Laparoscopy instruments with axial ring handle;
without ratchet**



with cleaning channel; with Luer Lock connector

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

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



with cleaning channel; with Luer Lock connector

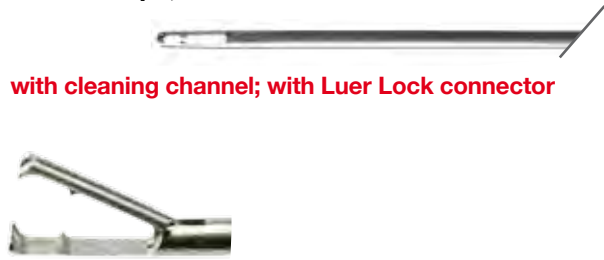
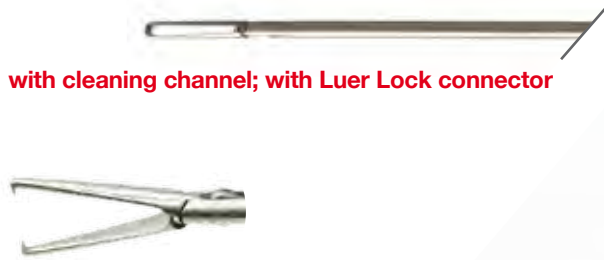
Art.Nr.	Description	Size	Spez.
612-405-53	grasping forceps; curved; blade 22 mm	Ø 5,0 mm; FL 330 mm	
612-410-53	grasping forceps; non-traumatic	Ø 5,0 mm; FL 330 mm	
612-415-53	MAHNES grasping forceps	Ø 5,0 mm; FL 330 mm	
612-420-53	Dorsey grasping forceps; fenestrated; blade 16 mm	Ø 5,0 mm; FL 330 mm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



Laparoscopy instruments

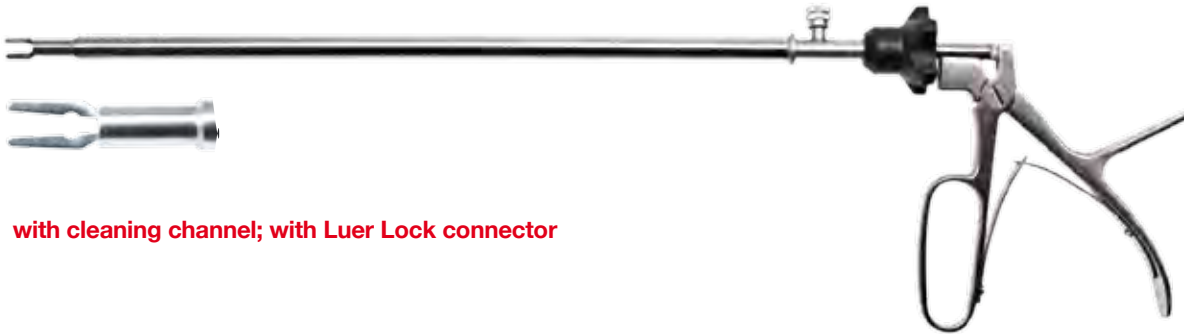
Art.Nr.	Description	Size	Spez.
612-135-53	METZENBAUM modified; scissors curved; double action jaw; blade 18 mm with cleaning channel; with Luer Lock connector	Ø 5,0 mm; FL 330 mm	
612-990-53	cholangiography fixation forceps with cleaning channel; with Luer Lock connector	Ø 5,0 mm; FL 330 mm	
499-191-00	sealing cap for instrument channel	10 pcs./box	
612-540-93	spoon forceps with spring handle; single action jaw with cleaning channel; with Luer Lock connector	Ø 10,0 mm; FL 330 mm	
612-550-93	claw forceps with spring handle; single action jaw with cleaning channel; with Luer Lock connector	Ø 10,0 mm; FL 330 mm	

Laparoscopy instruments

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

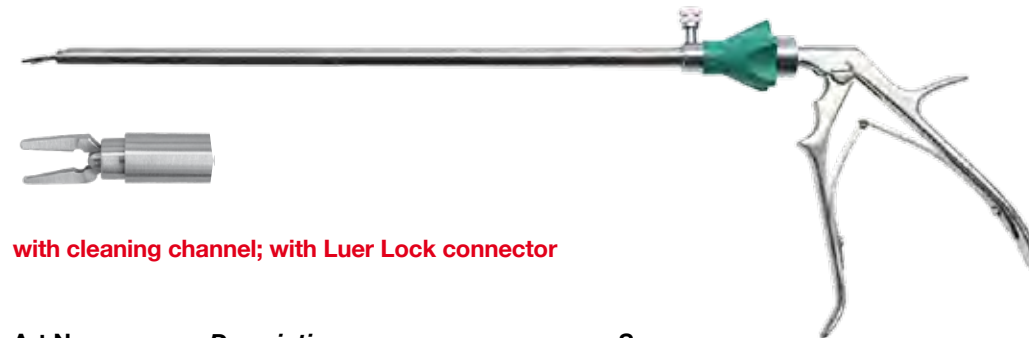


Clip Appliers Ø 10 mm; **ROTATABLE**



with cleaning channel; with Luer Lock connector

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



with cleaning channel; with Luer Lock connector

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

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

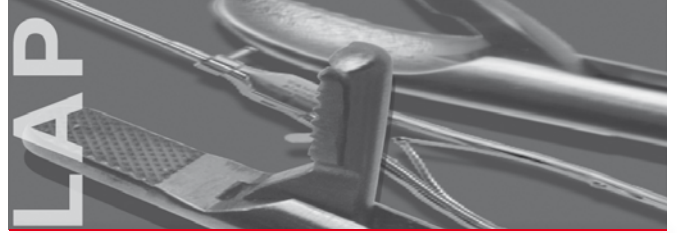


Art.Nr.	Description	Spez.	Size
612-910-00	small	for Ethicon Clips	Ø 10,0 mm; FL 320 mm
612-910-01	medium	for Ethicon Clips	Ø 10,0 mm; FL 320 mm
612-910-02	medium-large	for Ethicon Clips	Ø 10,0 mm; FL 320 mm
612-910-03	large	for Ethicon Clips	Ø 10,0 mm; FL 320 mm
612-912-00	small	for Weck Clips	Ø 10,0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

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



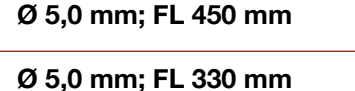
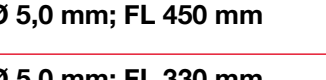
Art.Nr.	Description	Spez.	Size
612-940-00	small	for Ethicon Clips	Ø 5,0 mm; FL 320 mm
612-940-01	medium	for Ethicon Clips	Ø 5,0 mm; FL 320 mm
612-942-00	small	for Pilling Clips	Ø 5,0 mm; FL 320 mm
612-942-01	medium	for Pilling Clips	Ø 5,0 mm; FL 320 mm
612-944-00	small	for Weck Clips	Ø 5,0 mm; FL 320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



Needle holders with ergonomic shank handle; with ratchet

with cleaning channel; with Luer Lock connector



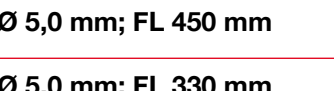
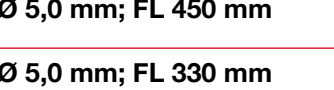
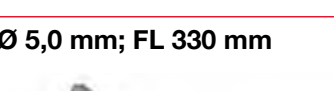
Art.Nr.	Description	Size	Spez.
614-005-53	TC needle holder; straight	Ø 5,0 mm; FL 330 mm	
614-005-54	TC needle holder; straight	Ø 5,0 mm; FL 450 mm	
614-010-53	TC needle holder; curved left	Ø 5,0 mm; FL 330 mm	
614-010-54	TC needle holder; curved left	Ø 5,0 mm; FL 450 mm	
614-015-53	TC needle holder;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

"TC" means "tungsten carbide"

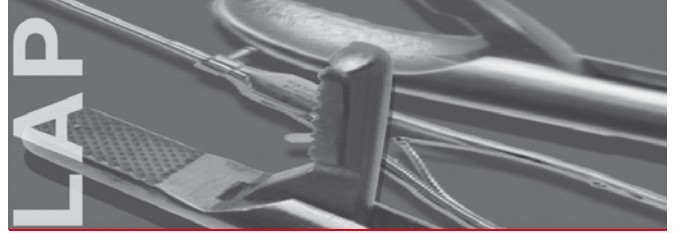
**Needle holders with axial ring handle;
with ratchet**



with cleaning channel; with Luer Lock connector

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

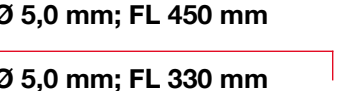
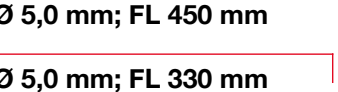
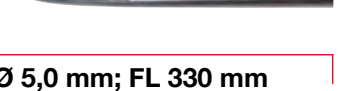
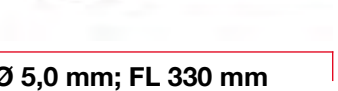
"TC" means "tungsten carbide"



Needle holders with axial wave-ring handle; with ratchet

with cleaning channel; with Luer Lock connector

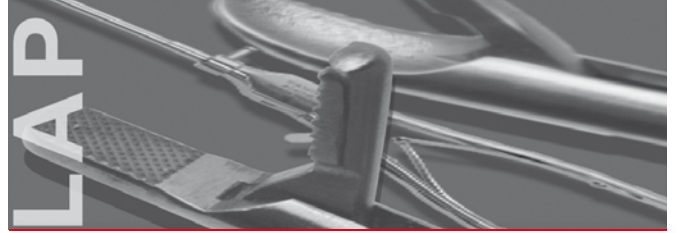


Art.Nr.	Description	Size	Spez.
614-205-53	TC needle holder; straight; long	Ø 5,0 mm; FL 330 mm	
614-205-54	TC needle holder; straight; long	Ø 5,0 mm; FL 450 mm	
614-210-53	TC needle holder; curved left	Ø 5,0 mm; FL 330 mm	
614-210-54	TC needle holder; curved left	Ø 5,0 mm; FL 450 mm	
614-215-53	TC needle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

"TC" means "tungsten carbide"

Suture set

Art.Nr.	Description	Size	Spez.
618-100-43	knot pusher with open eye	Ø 4,0 mm; FL 330 mm	
			
618-105-43	knot pusher with closed eye	Ø 4,0 mm; FL 330 mm	
			
618-110-43	knot pusher with slit	Ø 4,5 mm; FL 330 mm	
			
618-180-53	knot pusher with 4 pins	Ø 5,0 mm; FL 330 mm	
			
626-182-95	reducer sleeve (for Art.Nr. 618-180-53)	Ø 11,0 mm – 5,0 mm	
			



Suture set

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



with cleaning channel; with Luer Lock connector

612-195-53	needle receiving forceps	Ø 5,0 mm; FL 330 mm	
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with cleaning channel; with Luer Lock connector

Fascia closure device ("FCD")

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



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



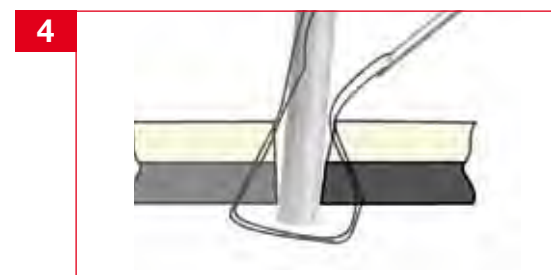
Penetrate the "FCD" through the subcutaneous tissue (using the incision of the trocar) in the abdominal wall. Make sure that the catcher hook is always retracted during this procedure.

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

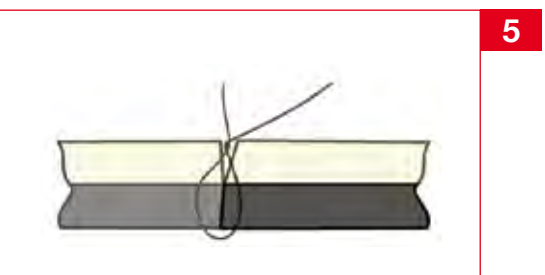
Now you can release the thread. Then retract the catcher hook by pulling the ring handle and extract the "FCD".



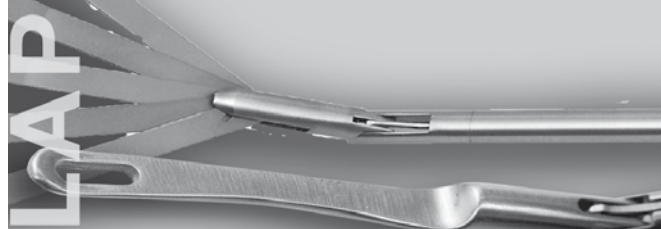
Now penetrate the "FCD" on the other side of the trocar (picture 2). Please make sure again that the catcher hook is retracted during this procedure. When you have come through the subcutaneous tissue push down the ring handle so that the catcher hook comes out. Take the loose end of the thread by making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



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

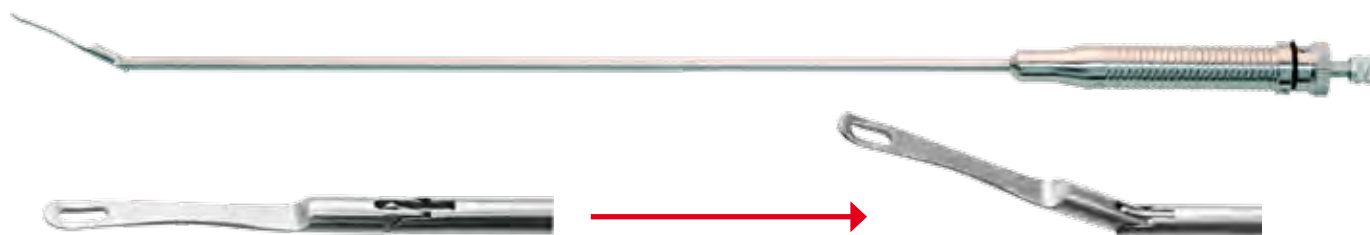


Knot the thread tightly in the subcutaneous tissue. This ensures an easy and safety handling of the abdominal wall closure.



Endo-retractors with **CLEANING CHANNEL**

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



with cleaning channel; with Luer Lock connector

616-110-53	retractor; bendable; 3 fingers	Ø 5,0 mm; FL 340 mm	
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with cleaning channel; with Luer Lock connector

616-120-93	retractor; bendable; 5 fingers	Ø 10,0 mm; FL 380 mm	
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with cleaning channel; with Luer Lock connector

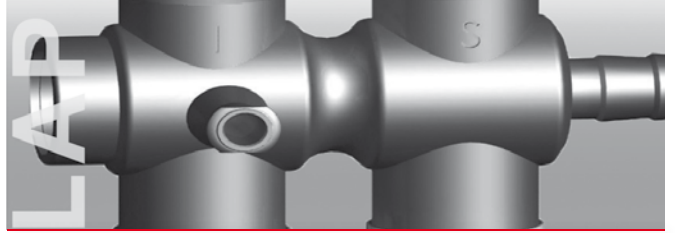
Endo-retractors; **DETACHABLE**

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



616-220-53	retractor; detachable ; bendable; 5 fingers	Ø 10,0 mm; FL 380 mm	
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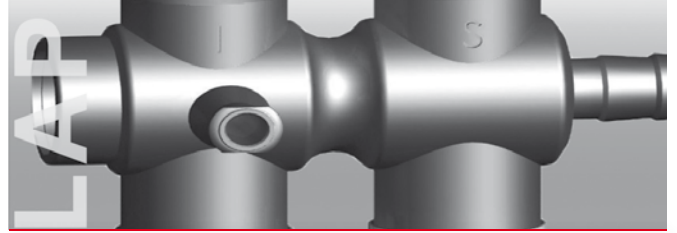
Suction-/irrigation systems

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

HF-electrodes see page 40

Suction-/irrigation systems

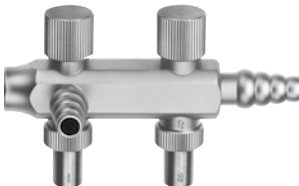
Art.Nr.	Description	Size	Spez.
620-015-00	suction-/irrigation pistol handle style; Luer Lock connectors; with maximum suction flow Ø 4,4 mm		
620-015-09	suction-/irrigation handle; Luer Lock connectors; with maximum suction flow Ø 4,4 mm		
620-015-33	suction-/irrigation tube	Ø 3,0 mm; FL 330 mm	
			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



Suction-/irrigation systems

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

Suction-/irrigation systems

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

HF-laparoscopy electrodes; MONOPOLAR



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

monopolar cables see page 41

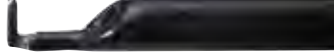
**HF-laparoscopy electrodes; with irrigation channel and trumpet valve;
MONOPOLAR**



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

monopolar cables see page 41

Suction-/irrigation-HF-combination system; MONOPOLAR

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

Suction-/irrigation tubes see page 34

HF-laparoscopy needle electrodes;
MONOPOLAR

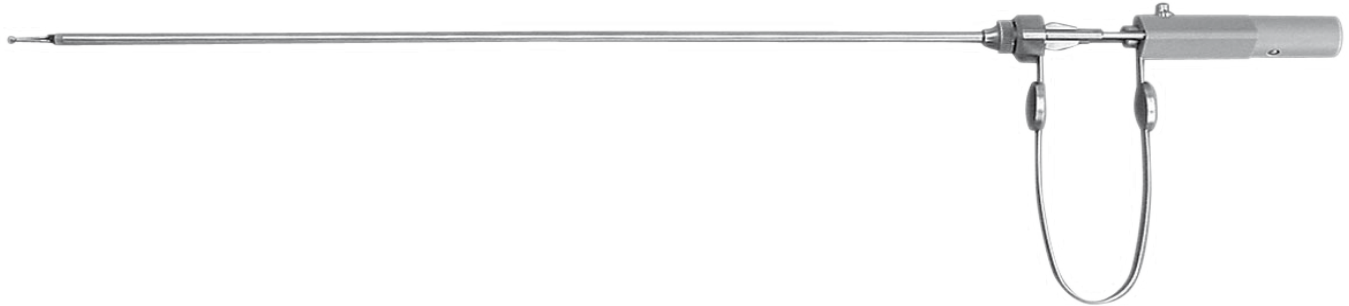
Art.Nr.	Description	Size	Spez.
622-040-03	HF-needle electrode; monopolar	Ø 5,0 mm; FL 320 mm	

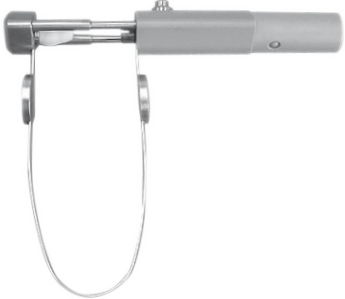


Monopolar cables

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

BIPOLAR coagulation forceps



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

BIPOLAR coagulation forceps electrodes

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

Bipolar cables

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

BIPOLAR coagulation forceps

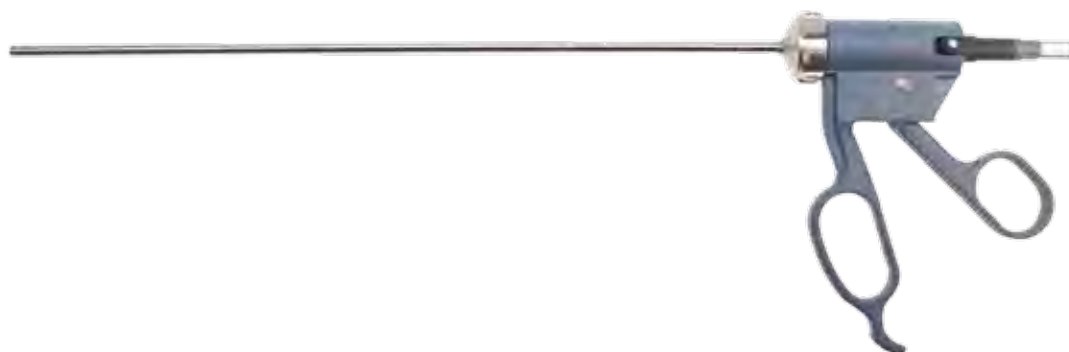
Art.Nr.	Description	Size	Spez.
628-201-53	standard handle for bipolar coagulation forceps; inclusive shaft	Ø 5,0 mm; FL 340 mm	
			
628-205-53	ring handle for bipolar coagulation forceps; inclusive shaft	Ø 5,0 mm; FL 340 mm	
			
Art.Nr.	Description	Instrument-side	Unit-side
628-299-00	adapter for bipolar cable with flat plug		cable page 43
628-292-03	bipolar cable for Erbe units		3 m 
628-293-03	bipolar cable for Martin units		3 m 
628-294-03	bipolar Banana plugs cable with 2 x Ø 4 mm		Ø 4,0 mm; 3 m 
628-295-03	bipolar cable for Valleylab units		Ø 4,0 mm; 3 m 

BIPOLAR coagulation forceps

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

BIPOLAR coagulation forceps **power T-style**

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



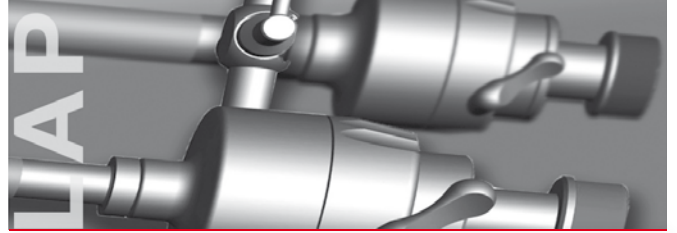
628-305-53	T-style turnable for bipolar coagulation forceps; inclusive shaft	Ø 5,0 mm; FL 340 mm	
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Art.Nr.	Description	Instrument-side	Unit-side
287-200-30	bipolar cable for Erbe units		3 m
287-205-30	bipolar cable for Martin units		3 m
287-210-30	bipolar Banana plugs cable with 2 x Ø 4 mm		Ø 4,0 mm; 3 m
287-215-30	bipolar cable for Valleylab units		Ø 4,0 mm; 3 m

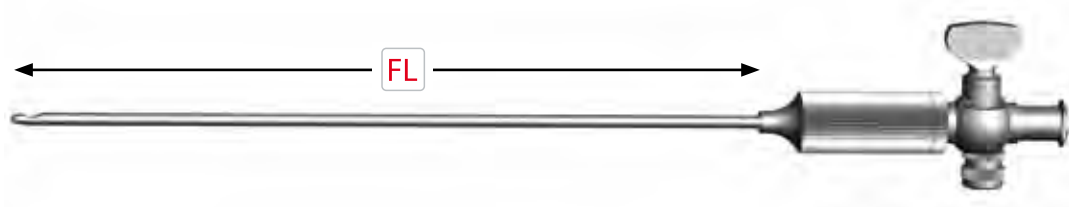
BIPOLAR coagulation inserts for power T-style

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



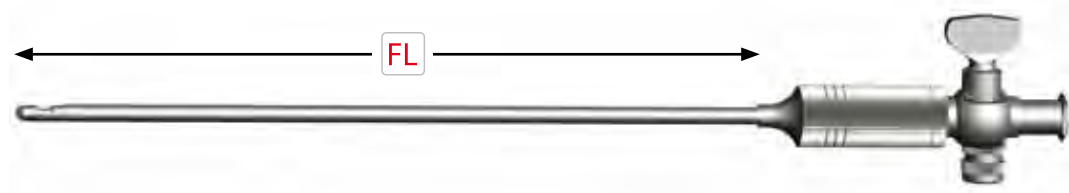
VERESS insufflation cannulas

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



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

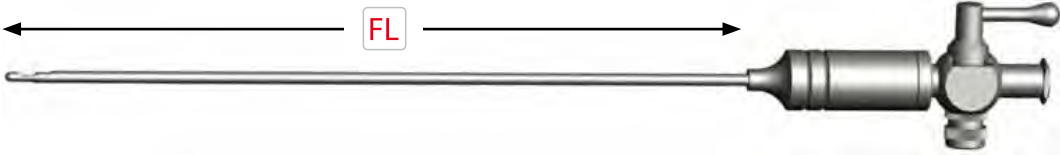
VERESS HIGH FLOW insufflation cannula with Luer Lock connector	Ø 2,7 mm
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618-515-10	FL 100 mm
618-515-12	FL 120 mm
618-515-15	FL 150 mm
618-515-17	FL 170 mm

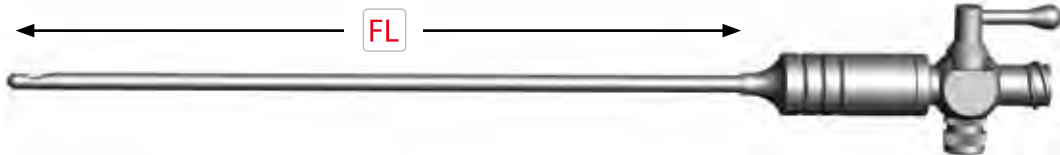
VERESS insufflation cannulas; STAINLESS STEEL

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

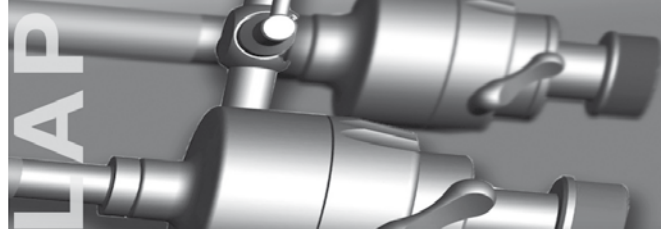


- 618-550-10 FL 100 mm
- 618-550-12 FL 120 mm
- 618-550-15 FL 150 mm

VERESS HIGH FLOW insufflation cannula with Luer Lock connector; stainless steel	Ø 2,7 mm
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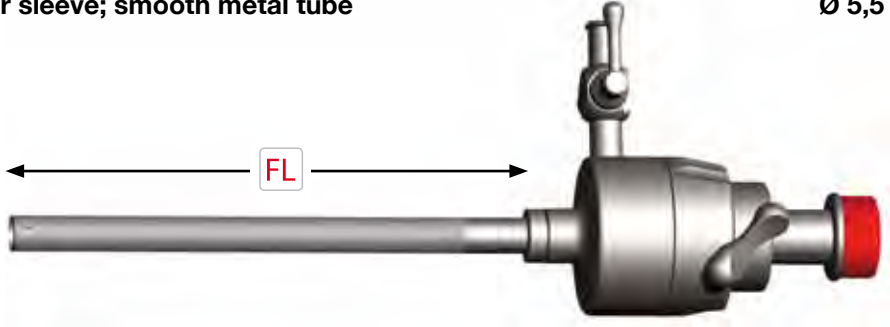
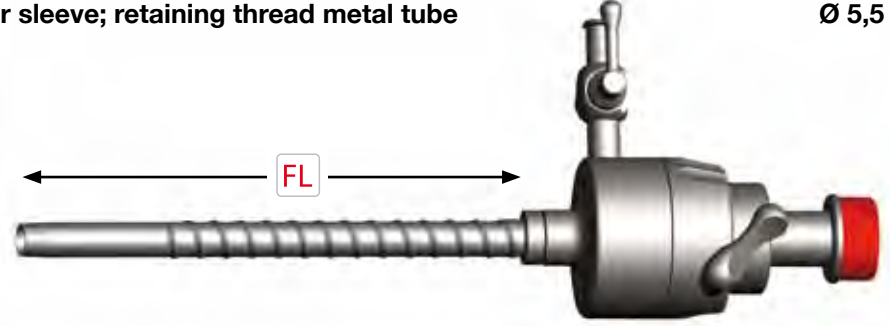
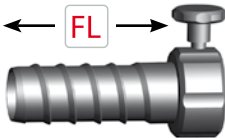


- 618-555-10 FL 100 mm
- 618-555-12 FL 120 mm
- 618-555-15 FL 150 mm



Trocar system;

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

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

Trocar system;
Ø 5,5 mm; FL 95 mm

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



626-152-51	trocar; pyramidal tip	Ø 5,5 mm; for FL 95 mm	
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626-153-51	trocar pyramidal; hollow grinding; with hole	Ø 5,5 mm; for FL 95 mm	
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626-154-51	protection trocar	Ø 5,5 mm; for FL 95 mm	
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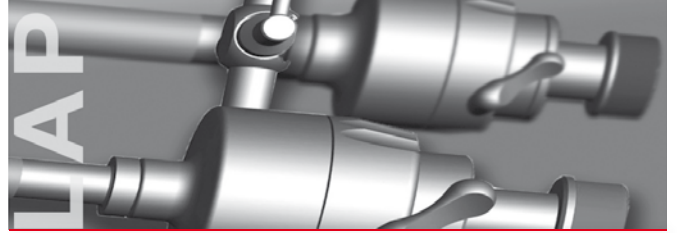


626-155-51	safety trocar; pyramidal	Ø 5,5 mm; for FL 95 mm	
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626-156-51	safety trocar with knife	Ø 5,5 mm; for FL 95 mm	
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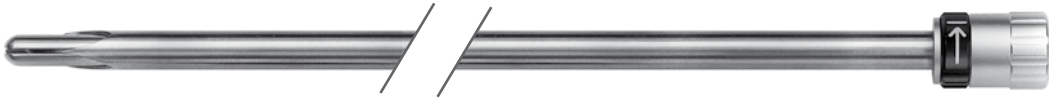
Trocar system;

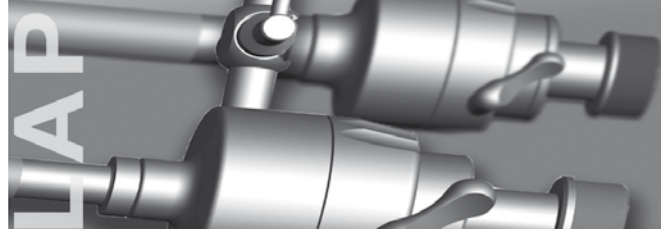
Ø 5,5 mm manual opening lever; for Ø 5,0 mm instruments; **FL 150 mm**

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

Trocar system;

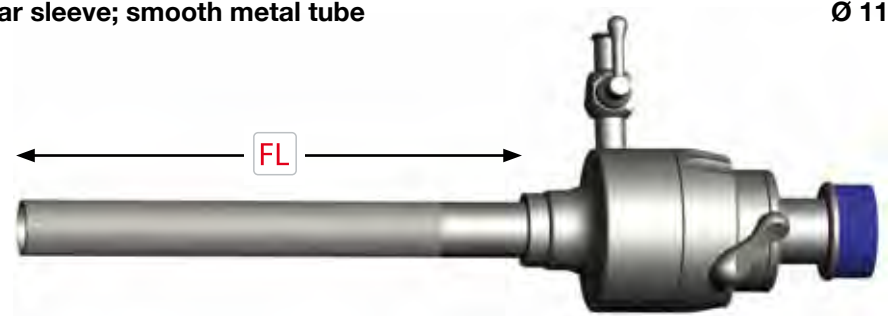
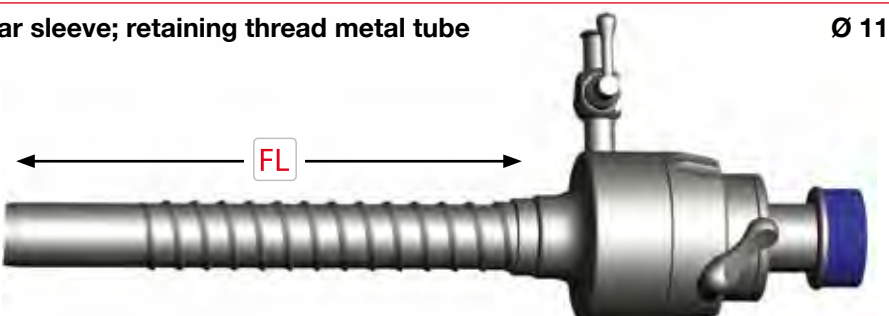
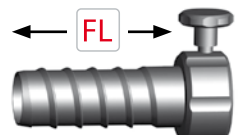
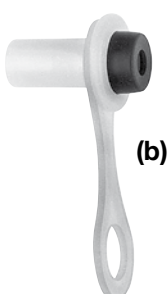
Ø 5,5 mm; **FL 150 mm**

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



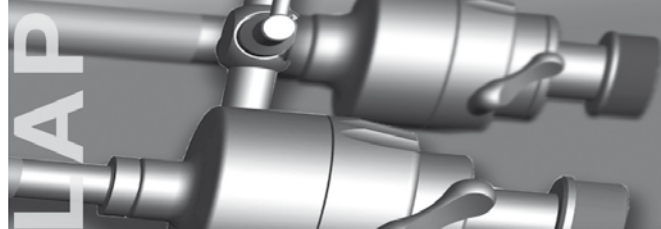
Trocar system;

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

Art.Nr.	Description	Size	Spez.
626-121-91	trocar sleeve; smooth metal tube	Ø 11,0 mm; FL 100 mm	
			
626-122-91	trocar sleeve; retaining thread metal tube	Ø 11,0 mm; FL 100 mm	
			
626-175-00	trocar stop; retaining thread	Ø 11,0 mm; FL 35 mm	
			
626-170-90	sealing cap Ø 10,0/11,0 mm (blue)		10 pcs./box
			
626-171-90	spare part set		10 pcs./box
			
626-178-95	reducer (a)	Ø 11,0 mm – 5,0 mm	
626-180-95	reducer (b)	Ø 11,0 mm – 5,0 mm	
	 		

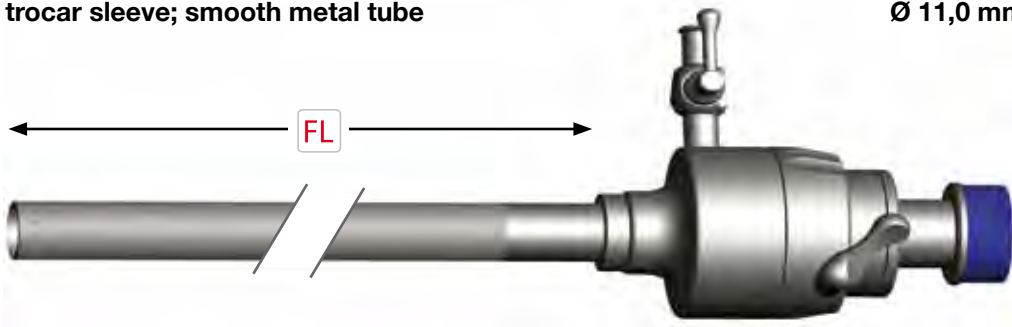
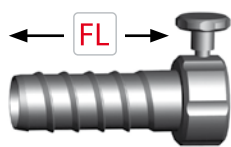
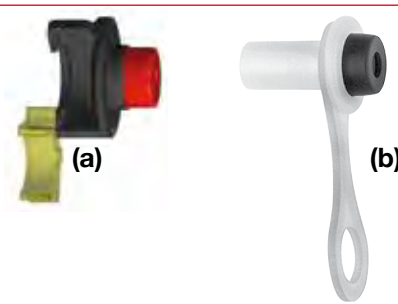
Trocar system;
Ø 11,0 mm; FL 100 mm

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



Trocar system;

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

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

Trocar system;

Ø 11,0 mm; FL 150 mm

Art.Nr.	Description	Size	Spez.
626-151-99	trocar; conical tip	Ø 11,0 mm; for FL 150 mm	



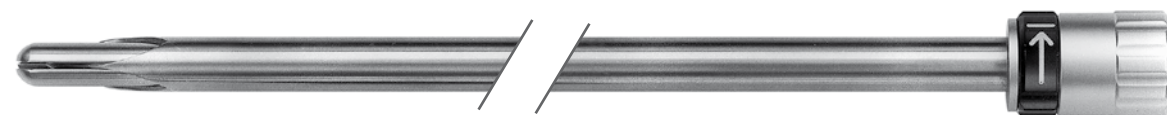
626-152-99	trocar; pyramidal tip	Ø 11,0 mm; for FL 150 mm	
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626-153-99	trocar pyramidal; hollow grinding; with hole	Ø 11,0 mm; for FL 150 mm	
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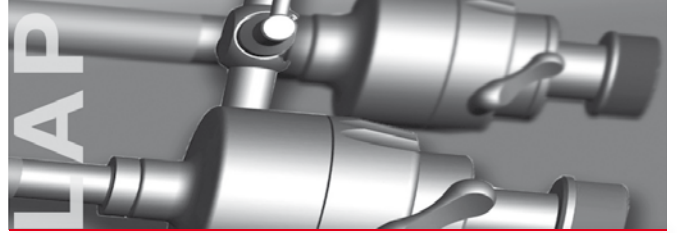


626-155-99	safety trocar; pyramidal	Ø 11,0 mm; for FL 150 mm	
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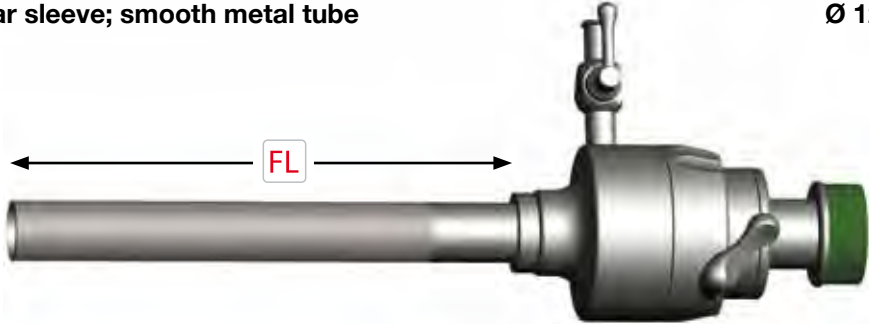
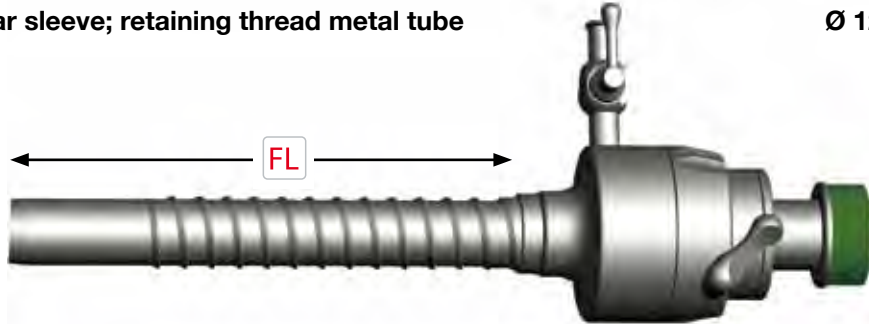
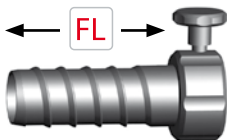
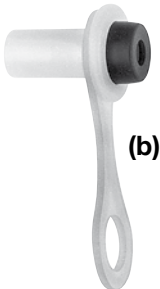
626-182-95	reducer sleeve	Ø 11,0 mm – 5,0 mm	
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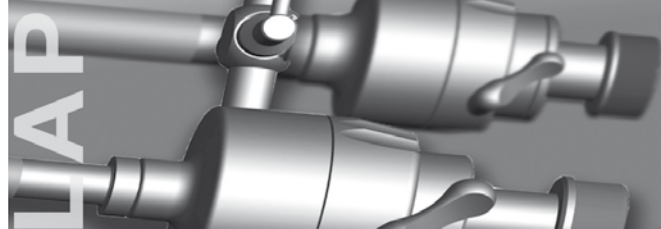
Trocar system;

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

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

Trocar system;
Ø 12,5 mm; FL 98 mm

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



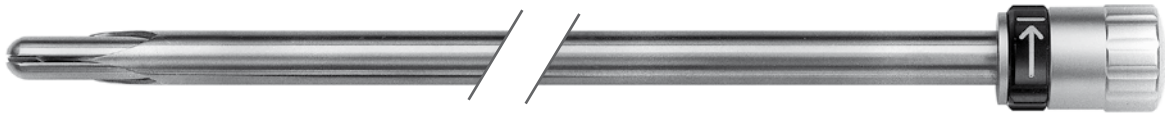
Trocar system;

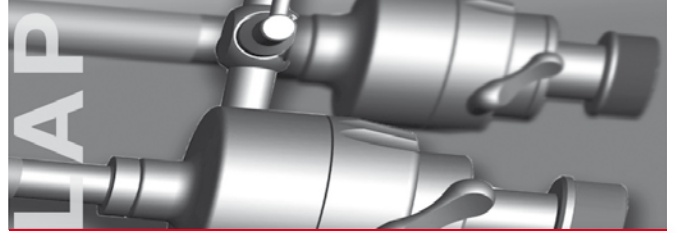
Ø 12,5 mm manual opening lever; for Ø 12,5 mm instruments; **FL 150 mm**

Art.Nr.	Description	Size	Spez.
626-121-19	trocar sleeve; smooth metal tube	Ø 12,5 mm; FL 150 mm	
626-175-11	trocar stop; retaining thread	Ø 12,5 mm; FL 35 mm	
626-170-11	sealing cap Ø 12,5 mm (green)		10 pcs./box
626-171-11	spare part set		10 pcs./box
626-178-15	reducer (a)	Ø 12,5 mm – 5,0 mm	
626-180-15	reducer (b)	Ø 12,5 mm – 5,0 mm	

Trocar system;

Ø 12,5 mm; FL 150 mm

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

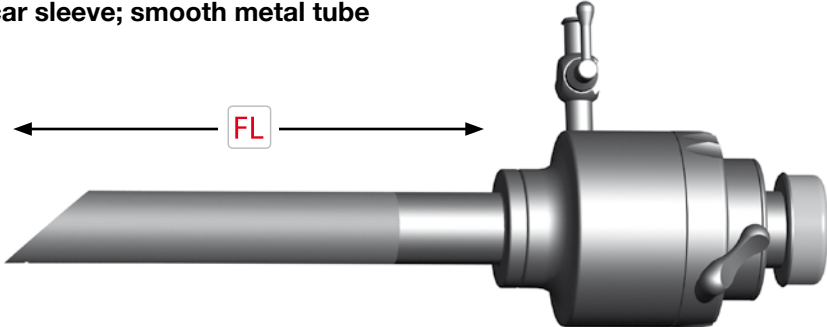
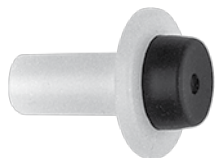


Trocar system;

Ø 15,0 mm manual opening lever; FL 110 mm

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

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

Art.Nr.	Description	Size	Spez.
626-121-21	Trocar sleeve; smooth metal tube	Ø 20,0 mm; FL 119 mm	
			
626-151-21	trocar; conical tip	Ø 20,0 mm; for FL 119 mm	
			
626-152-21	trocar; pyramidal tip	Ø 20,0 mm; for FL 119 mm	
			
626-179-21	dilatations sleeve with guide rod	Ø 5,0 mm – 20 ,0 mm	
626-179-22	dilatations sleeve with guide rod	Ø 11,0 mm – 20,0 mm	
			
626-170-20	sealing cap Ø 20,0 mm (grey)		10 pcs./box
			
626-171-20	spare part set		10 pcs./box
			
626-180-25	reducer	Ø 20,0 mm – 5,0 mm	
626-180-29	reducer	Ø 20,0 mm – 10,0 mm	
			



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



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

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

Light guide cables

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



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

HTT: High Transmission Technology

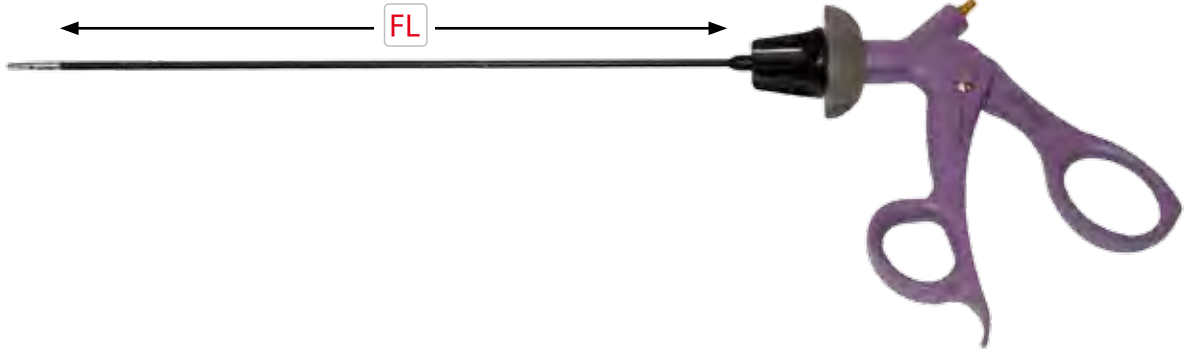
Light cable connectors

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

other adapters on request

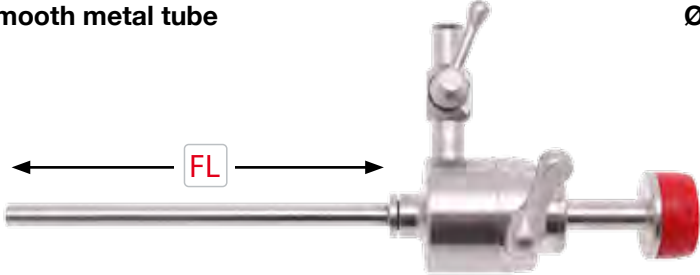


Endoor laparoscopy instrument system for pediatric use Ø 3 mm

Art.Nr.	Description	Size	Spez.
			
	 insert complete with shaft; NON-DETACHABLE		
610-500-32	METZENBAUM scissors	Ø 3,0 mm; FL 220 mm	
610-542-32	MARYLAND grasping forceps	Ø 3,0 mm; FL 220 mm	
610-544-32	grasping forceps; non-traumatic	Ø 3,0 mm; FL 220 mm	
610-546-32	COBRA forceps	Ø 3,0 mm; FL 220 mm	

Endoor handles see page 8

Endoor laparoscopy instrument system for pediatric use

Art.Nr.	Description	Size	Spez.
626-121-31	trocar sleeve; smooth metal tube	Ø 3,5 mm; FL 70 mm	
			
626-151-31	trocar; conical tip	Ø 3,5 mm; for FL 70 mm	
			
626-152-31	trocar; pyramidal tip	Ø 3,5 mm; for FL 70 mm	
			

HF-laparoscopy electrodes monopolar

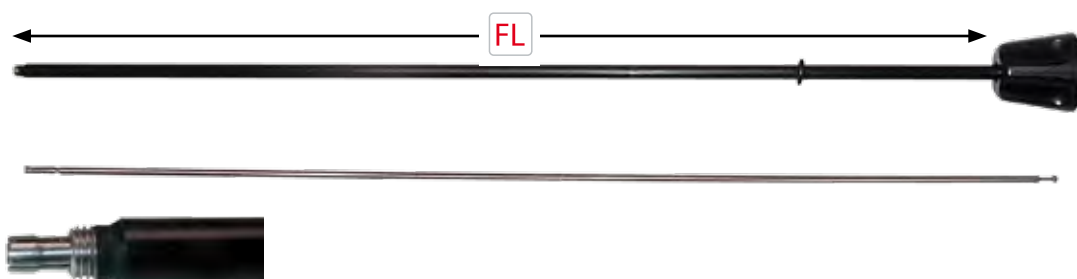
			
Art.Nr.	Description	Size	Spez.
622-005-13	button electrode; monopolar	Ø 3,5 mm; FL 330 mm	
622-005-23	J-hook electrode; monopolar	Ø 3,5 mm; FL 330 mm	
622-005-33	L-hook electrode; monopolar	Ø 3,5 mm; FL 330 mm	

monopolar cables see page 41



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

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



monopolar cables see page 41

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

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





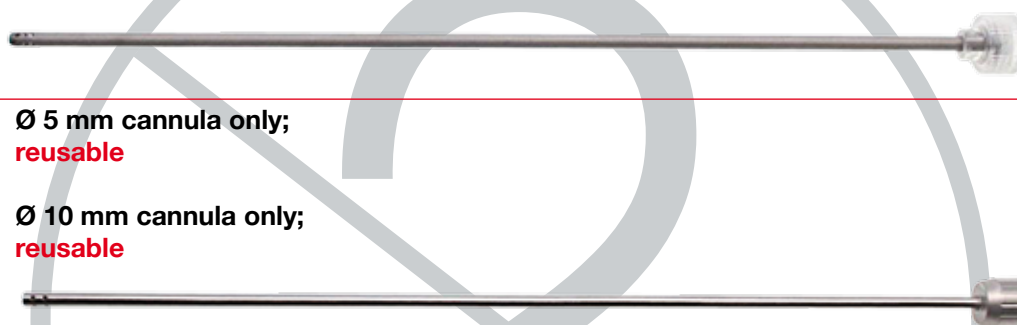
Endoor Cut; disposable tips for laparoscopy instrument system;
interchangeable disposable instrument tips to use with reusable handle-/shaft-system

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

Disposable Suction-irrigation-set;
disposable; sterile



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

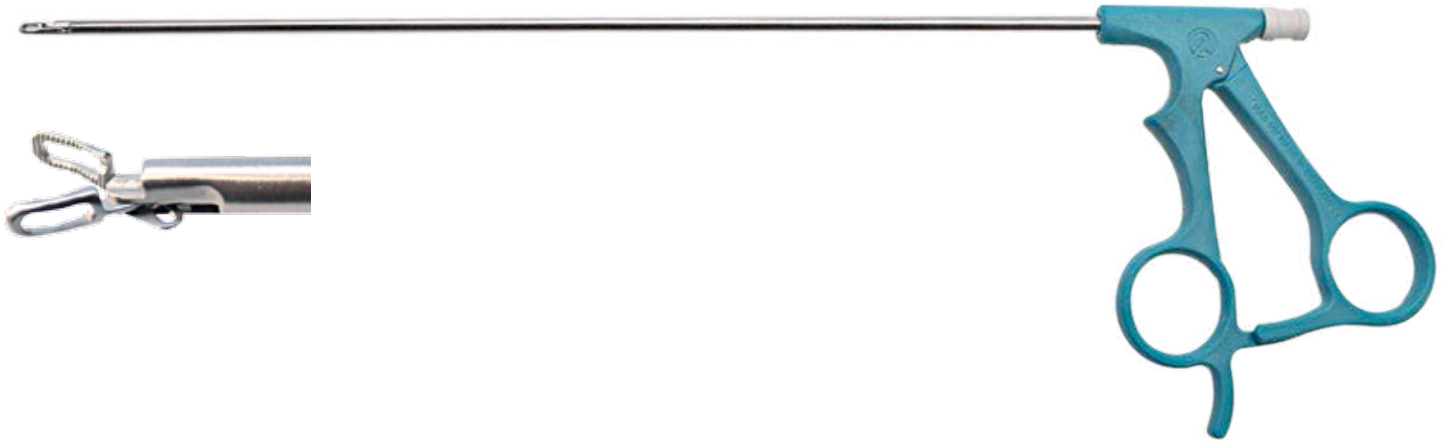


With these disposable sets TONTARRA Medizintechnik GmbH offers an integrated system of tubing, valve and cannula that allows the physician to comfortably and efficiently irrigate and aspirate during and after the surgical procedure.

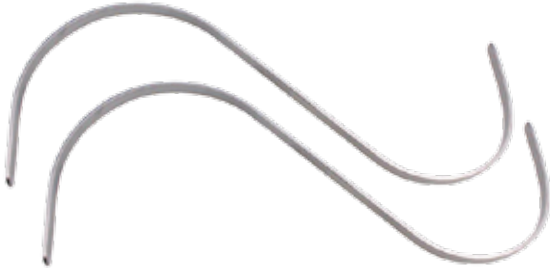
- Flow controlling trumpet valve
- Ergonomically designed
- Plunger caps are color-marked and contour-coded
- Smooth and reliable operation control for irrigation and aspiration
- Equipped with twin irrigation spikes and blocking clamps
- Stainless steel cannulas in Ø 5 mm and Ø 10 mm
- Fitted with non-traumatic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

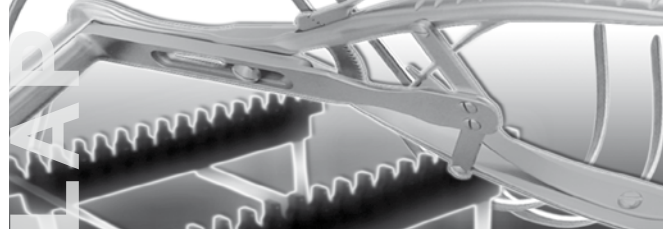
Cholangeography fixation forceps

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



**Accessories;
retractor for gall bladder extraction**

Art.Nr.	Description	Size	Spez.
527-040-00	abdominal speculum; valve inner Ø 12,0 mm		
527-042-00	s-retractor-set; wide 5,5 mm		2 pcs.
527-042-11	s-retractor-set; wide 11,0 mm		



Accessories

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



499-100-25	storage and sterilisation rack; for 15 pieces of laparoscopy instruments; Ø 5 mm or Ø 10 mm; 470 x 250 x 150 mm
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087-950-01	Luer Lock closing cap	10 pcs./box
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087-955-01	Luer Lock closing cap; silicone	10 pcs./box
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Accessories;
Puncture-injection-needles

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



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



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