TONTARRA

ENDOSCOPY



UROLOGY

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.

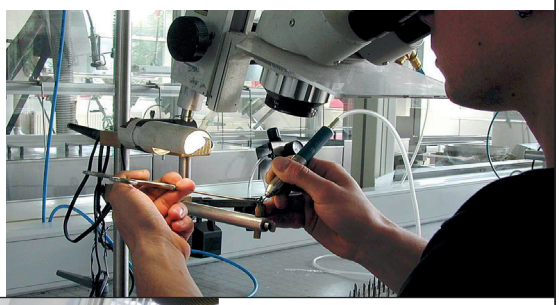
The confidence in our surgical and endoscopic lines as expressed by our international customers, distribution- and OEM-partners are a driving force to face and meet new challenges.

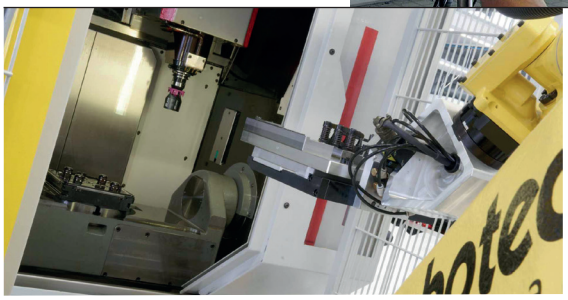
TONTARRA





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



For use with laser



Continuous flow

TABLE OF CONTENT



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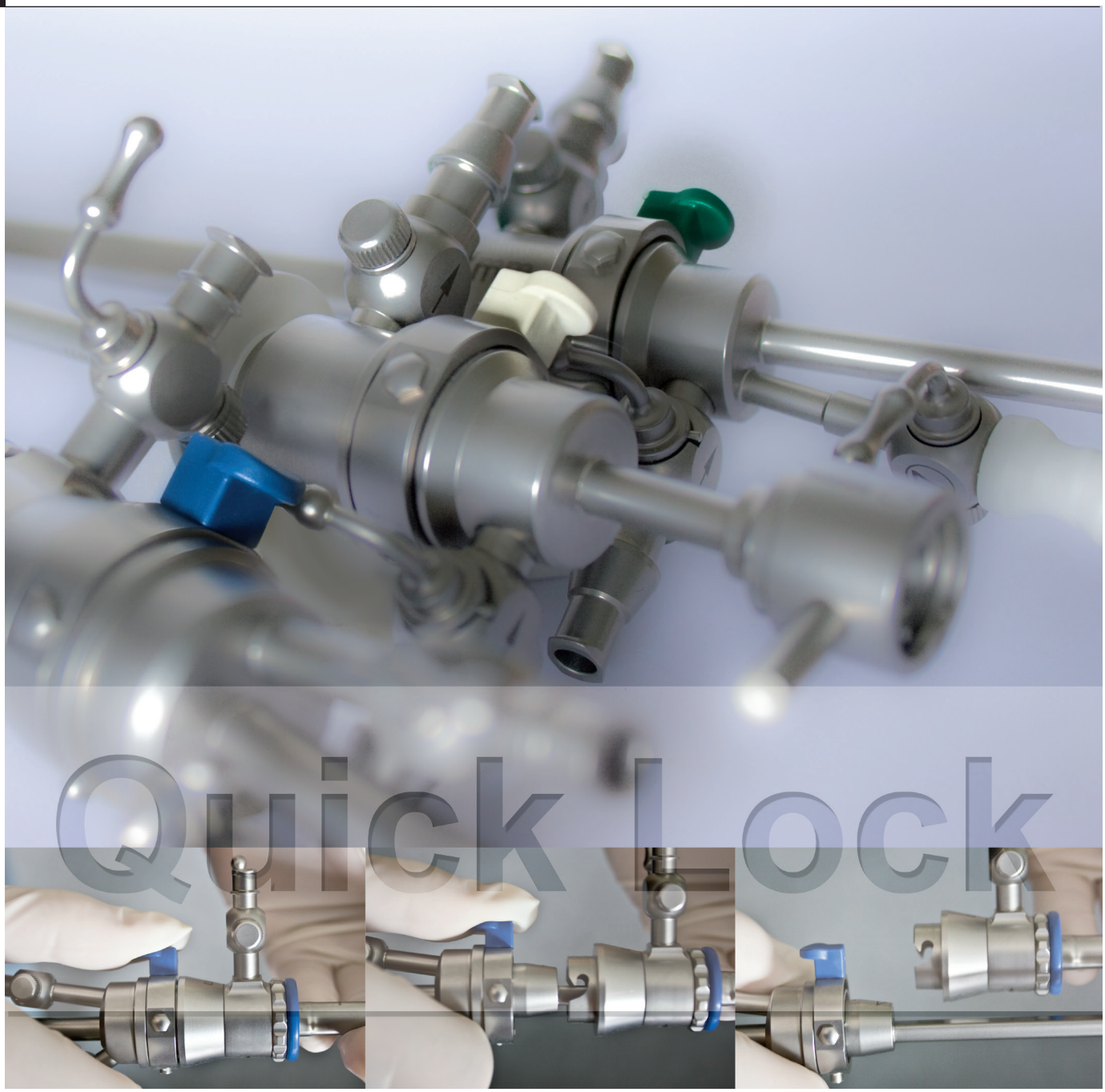
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THE QUICK LOCK CONNECTING SYSTEM

The main feature of the Quick Lock connecting system is that the sheath which is rigidly coupled with the connecting system can be very easily assembled and disassembled. Due to the spring locking the centering of the inner and outher sheaths is optimized compared to the established Bayonet-type instruments.

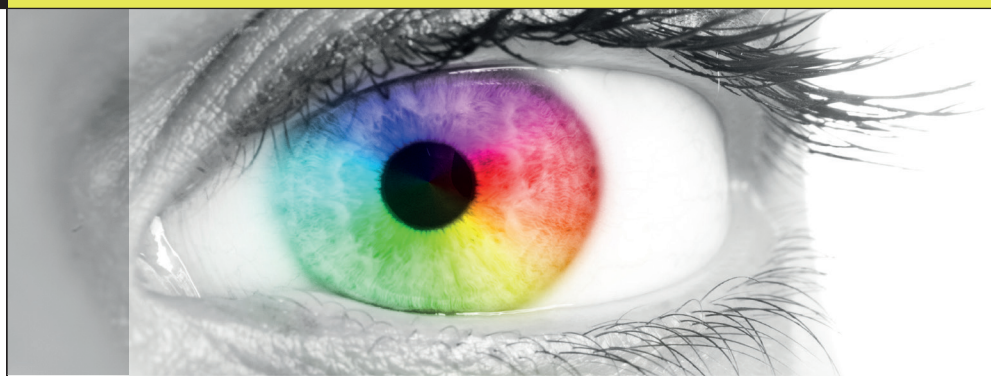
The precise labeling on the instrument makes it easy to operate the connecting system.

The Quick Lock system is characterized by a smooth running take apart and a tight sealing of the two sheaths connected.



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TONTARRA



TELESCOPES

- HD
- HD+
- HD+2

URETERO-RENOSCOPES

UROLOGY TELESCOPES HD+, HD+2

- Ø 4.0 mm / Ø 2.9 mm / Ø 2.7 mm / Ø 2.0 mm
- Compatible with most instrument- and camera systems



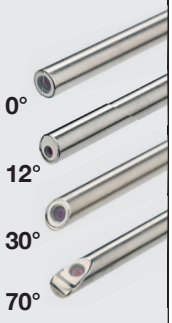
TELESCOPES FOR UROLOGY [autoclavable] ▶ Ø 4.0 mm

Description			Art. No.
Telescope HD+	▶ Ø 4.0 mm; 0°	FL 300 mm	601-104-00HD
Telescope HD+2	▶ Ø 4.0 mm; 0°	FL 300 mm	601-104-00HD2
Telescope HD+	▶ Ø 4.0 mm; 12°	FL 300 mm	601-104-12HD
Telescope HD+2	▶ Ø 4.0 mm; 12°	FL 300 mm	601-104-12HD2
Telescope HD+	▶ Ø 4.0 mm; 30°	FL 300 mm	601-104-30HD
Telescope HD+2	▶ Ø 4.0 mm; 30°	FL 300 mm	601-104-30HD2
Telescope HD+	▶ Ø 4.0 mm; 70°	FL 300 mm	601-104-70HD
Telescope HD+2	▶ Ø 4.0 mm; 70°	FL 300 mm	601-104-70HD2

· For use in cystoscopy and resectoscopy

· Field of view: 70°

· Available in four different viewing directions





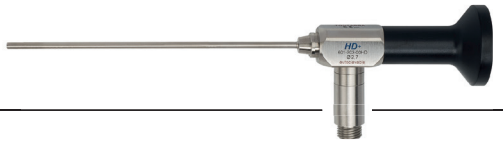
TELESCOPES FOR UROLOGY [autoclavable] ▶ Ø 2.9 mm

Description			Art. No.
Telescope HD+2	▶ Ø 2.9 mm; 0°	FL 300 mm	601-103-00HD2
Telescope HD+2	▶ Ø 2.9 mm; 12°	FL 300 mm	601-103-12HD2
Telescope HD+2	▶ Ø 2.9 mm; 30°	FL 300 mm	601-103-30HD2
Telescope HD	▶ Ø 2.9 mm; 70°	FL 300 mm	601-103-70

· For use in cystoscopy and resectoscopy

· Field of view: 80°

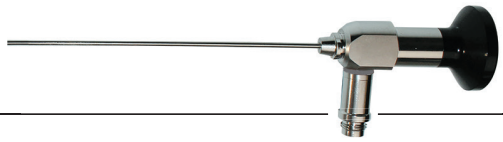
· Available in four different viewing directions



TELESCOPES FOR UROLOGY [autoclavable] ▶ Ø 2.7 mm

Description			Art. No.
Telescope HD+	▶ Ø 2.7 mm; 0°	FL 187 mm	601-203-00HD
Telescope HD+	▶ Ø 2.7 mm; 30°	FL 187 mm	601-203-30HD

For use with TONTARRA´s pediatric Uro-Line.



TELESCOPES FOR UROLOGY [autoclavable] ▶ Ø 2.0 mm

Description			Art. No.
Telescope HD	▶ Ø 2.0 mm; 0°	FL 187 mm	601-102-00
Telescope HD	▶ Ø 2.0 mm; 30°	FL 187 mm	601-102-30
Telescope HD	▶ Ø 2.0 mm; 0°	FL 260 mm	601-112-00
Telescope HD	▶ Ø 2.0 mm; 30°	FL 260 mm	601-112-30

For miniature cystoscopes and mini operative systems (used for example with TONTARRA´s pediatric Uro-Line).

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UROLOGY TELESCOPES HD, HD+, HD+2

- Ø 2.0 mm
- Compatible with most instrument- and camera systems

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)



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

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.



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

URETERO-RENOSCOPES

- 30.000 pixel
- 2 sizes of working channel (4 and 5 Fr.)



TELESCOPES FOR UROLOGY [autoclavable]

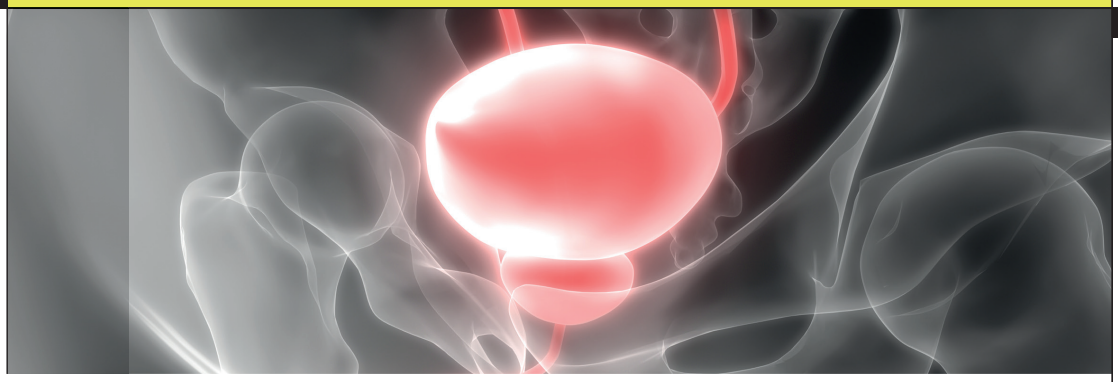
Description			Art. No.
URETERO-RENOSCOPE	[1 working channel 5 Fr.]		
	▶ 8.0/9.8 Fr.; 12°	FL 315 mm	601-110-05
	▶ 8.0/9.8 Fr.; 12°	FL 430 mm	601-110-10
URETERO-RENOSCOPE	[1 working channel 4 Fr.]		
	▶ 6.0/7.5 Fr.; 12°	FL 315 mm	601-110-15
	▶ 6.0/7.5 Fr.; 12°	FL 430 mm	601-110-20



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CYSTOSCOPY

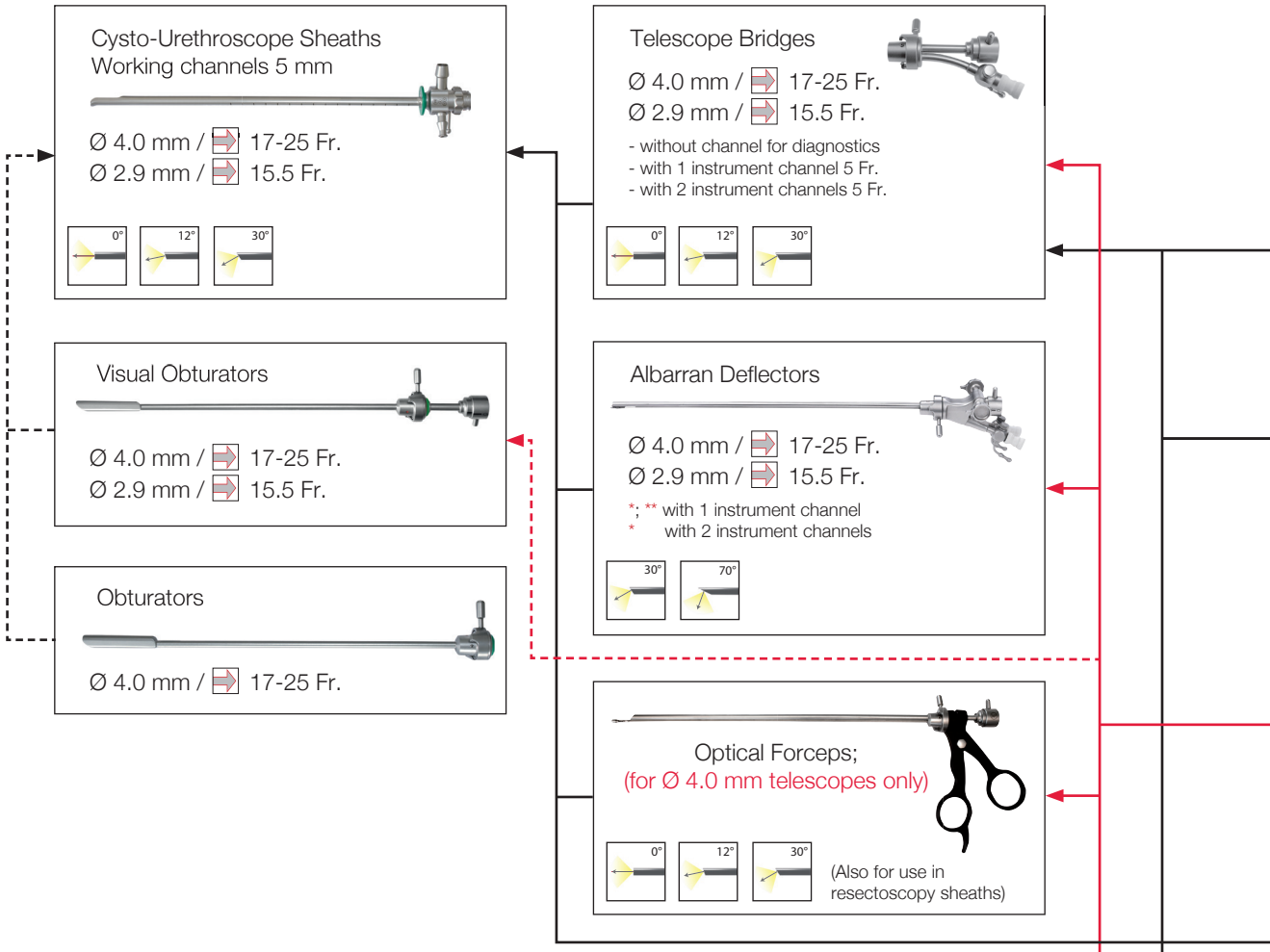
◀ 17-25 Fr.

Lithotripsy ◀ 24 - 25.5 Fr.

CYSTO-URETHROSCOPY

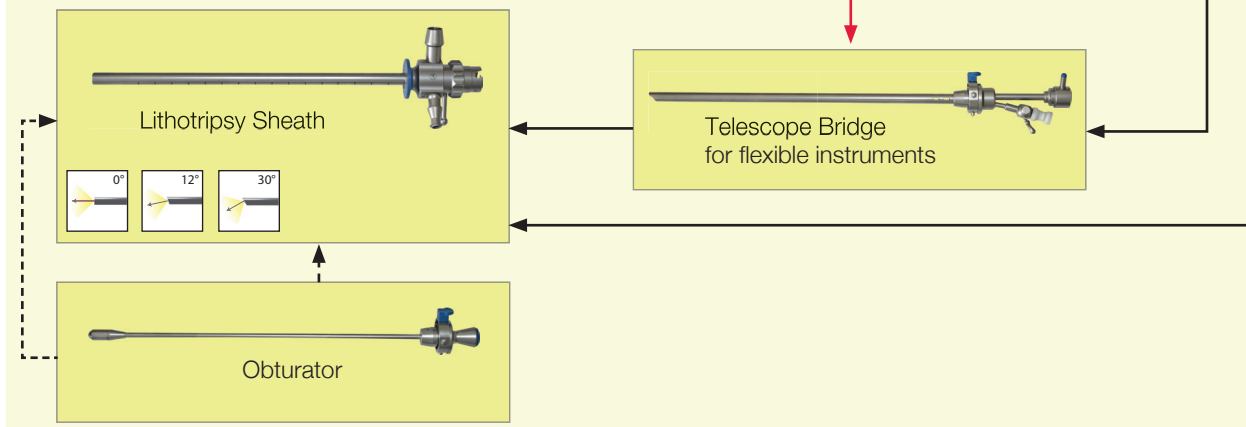
LITHOTRIPSY

Schematic overview CYSTO-URETHROSCOPY & LITHOTRIPSY: Systems and components for Ø 4.0 mm & 2.9 mm telescopes



LITHOTRIPSY SYSTEM 25.5 FR.

4.0 mm telescopes



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Systems and components for Ø 4.0 mm telescopes 17-25 Fr. & 25.5 Fr.
Systems and components for Ø 2.9 mm telescopes 15 Fr.

15 Fr. Compact System;
for Ø 2.9 mm telescopes
with Standard Obturator



Laser-Cystoscopy System 23 Fr.
for Ø 2.9 mm telescopes

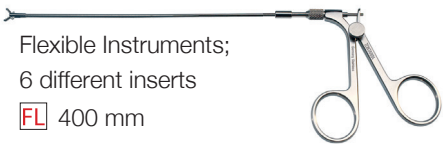
HF Flexible Electrodes
monopolar
Sizes 3-7 Fr.



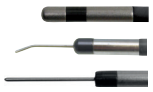
HF Generator



Flexible Instruments;
6 different inserts
FL 400 mm
(Also for use in urethrotomes)



HF Semi-Flexible
Electrodes bipolar
Sizes 5 Fr.

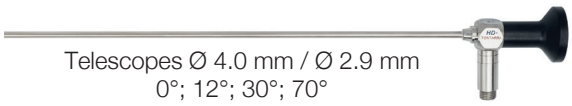


HF Connection cables (2 types):

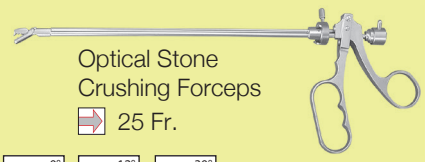
monopolar
to connect flexible monopolar HF electrodes to HF generator

bipolar
to connect semi-flexible bipolar HF electrodes to HF generator

Telescopes Ø 4.0 mm / Ø 2.9 mm
0°; 12°; 30°; 70°

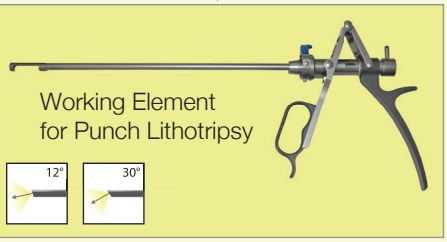


Optical Stone
Crushing Forceps
25 Fr.

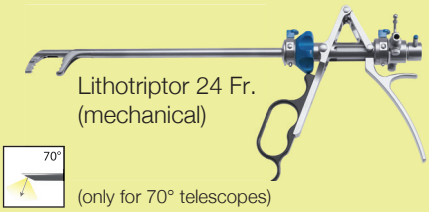


(Also for use in resectoscopy sheaths)

Working Element
for Punch Lithotripsy



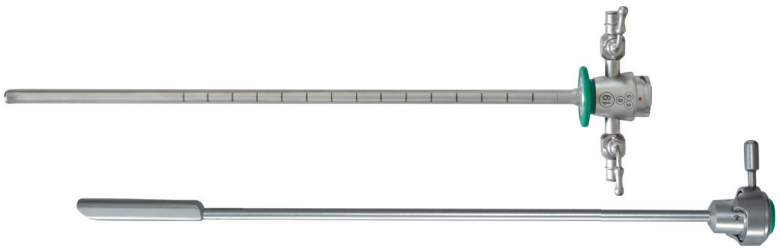
Lithotriptor 24 Fr.
(mechanical)

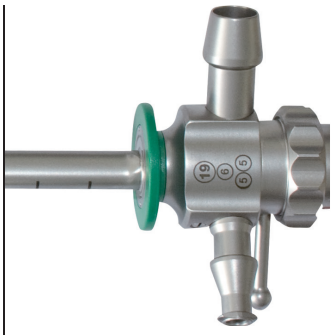


(only for 70° telescopes)

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CYSTO-URETHROSCOPY





The high quality instruments of TONTARRA´s well assorted product portfolio for Cysto-Urethroscopy are well introduced at the market and have proven to meet the needs of surgeons allover the world.

TONTARRA´S PORTFOLIO INCLUDES

FOR Ø 4.0 mm TELESCOPES:

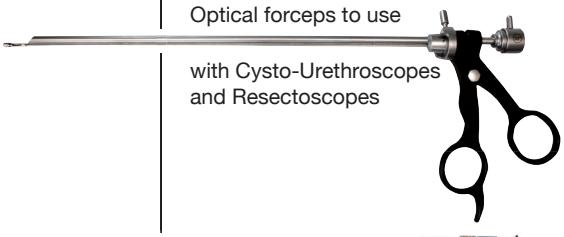
- Cysto-Urethroscope systems in different sizes, including telescope bridges and Albarran deflector

17 - 25 Fr. Cysto-Urethroscopy Systems
Cysto-Urethroscope sheaths with central valve or 2 stopcocks, standard & visual obturators.

17 Fr. ■ yellow
19 Fr. ■ green
21 Fr. ■ red
25 Fr. □ white

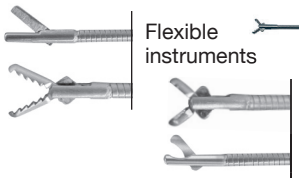
- Optical forceps



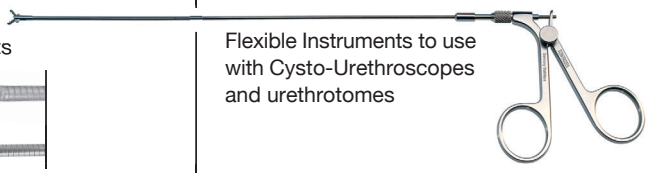


Optical forceps to use with Cysto-Urethroscopes and Resectoscopes

- 400 mm flexible instruments (5/7/9 Fr. working channels)

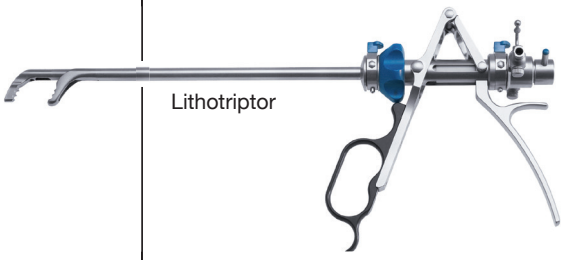


Flexible instruments



Flexible Instruments to use with Cysto-Urethroscopes and urethrotomes

- Lithotripsy instruments (25.5 Fr. Lithotripsy system, stone crushing forceps, mechanical lithotriptor)



Lithotriptor

- Laser Cystoscopy: see chapter “Laser instruments”

FOR Ø 2.9 mm TELESCOPES:

- Choose between a 15 Fr. compact system, or the 15 Fr. cysto-urethroscope system including telescope bridges and Albarran deflector (both options with 5 Fr. working channels)



Compact Cysto-Urethroscope

Selection of Mono- and bipolar electrodes (3/5/7 Fr.)

Monopolar flexible HF electrodes



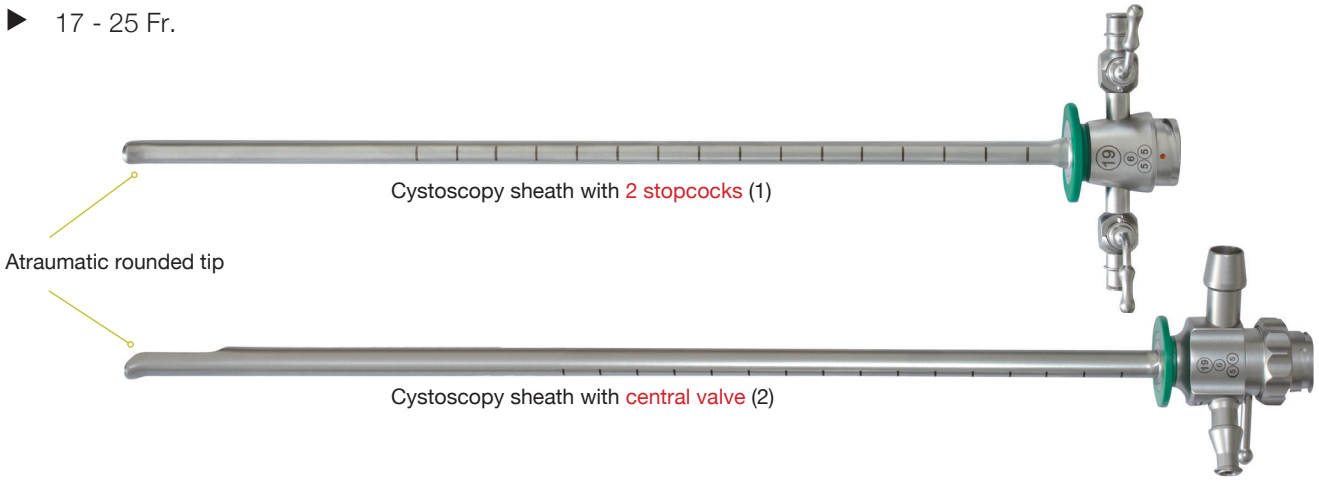
Bipolar semi-rigid HF electrodes



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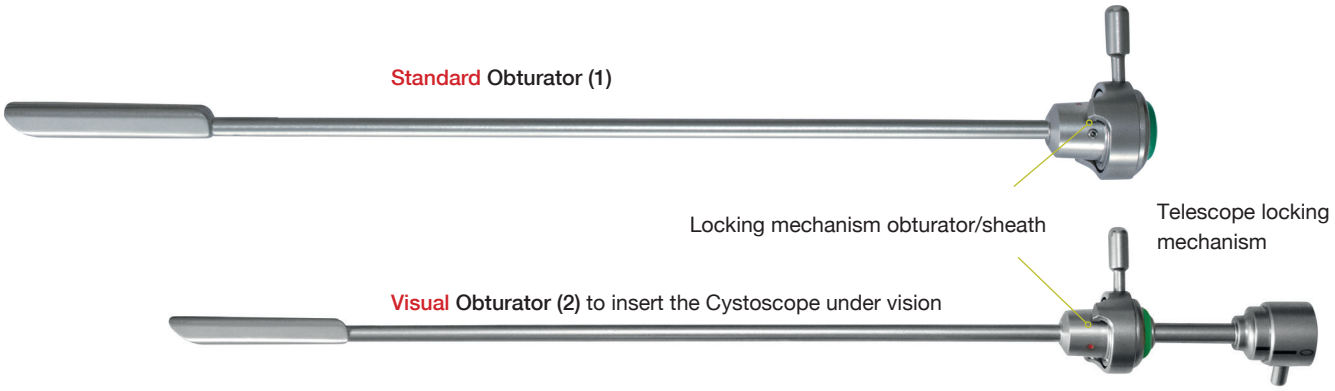
CYSTO-URETHROSCOPY

- System for telescopes Ø 4.0 mm
- 17 - 25 Fr.



CYSTO-URETHROSCOPE SHEATH SYSTEM for Ø 4 mm telescopes; without obturator

Size and colour		Channel size	2 stopcocks (1)	1 central valve (2)	Information
17 Fr.	yellow	1 x 5 Fr.	630-012-17	630-017-17	
19 Fr.	green	1 x 6 / 2 x 5 Fr.	630-012-19	630-017-19	
21 Fr.	red	1 x 7 / 2 x 5 Fr.	630-012-21	630-017-21	
23 Fr.	blue	1 x 9 / 2 x 7 Fr.	630-012-23	630-017-23	
25 Fr.	white	1 x 10 / 2 x 8 Fr.	630-012-25	630-017-25	



OBTURATOR FOR CYSTO-URETHROSCOPE SHEATH SYSTEM for Ø 4 mm telescopes

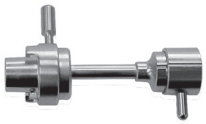
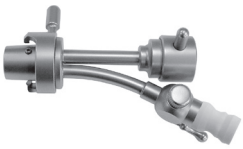
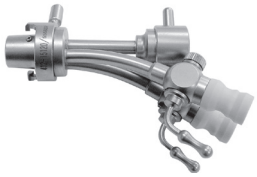
Size and colour		Channel size	Standard (1)	Visual (2)	Information
17 Fr.	yellow		630-020-17	630-025-17	30° 601-104-30HD 601-104-30HD2
19 Fr.	green		630-020-19	630-025-19	
21 Fr.	red		630-020-21	630-025-21	
23 Fr.	blue		630-020-23	630-025-23	
25 Fr.	white		630-020-25	630-025-25	

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CYSTO-URETHROSCOPY

- System for telescopes Ø 4.0 mm
- 17 - 25 Fr.

TELESCOPE BRIDGES FOR CYSTO-URETHROSCOPY ▶ 17-25 Fr.

		
TELESCOPE BRIDGE without channel for diagnostics	TELESCOPE BRIDGE with 1 instrument channel	TELESCOPE BRIDGE with 2 instrument channels
630-030-00	630-030-01	630-030-02



601-104-30HD, 601-104-30HD2
For adaption of the cystoscope length to telescope length. The working channel(s) not only support the use of flexible instruments and electrodes: Our models feature a very flat insertion angle, which also facilitates the use of semi-rigid instruments.

ALBARRAN DEFLECTOR ▶ 17-25 Fr.

Description	Art. No.	Information
with 1 instrument channel 	630-030-21	 601-104-30HD 601-104-30HD2  601-104-70HD 601-104-70HD2
with 2 instrument channels 	630-030-22	



The Albarran deflecting mechanism enhances the control whiles positioning accessories (electrodes, flexible instruments, catheters). The Albarran lever can be locked at 5 different angles (up to 90°).

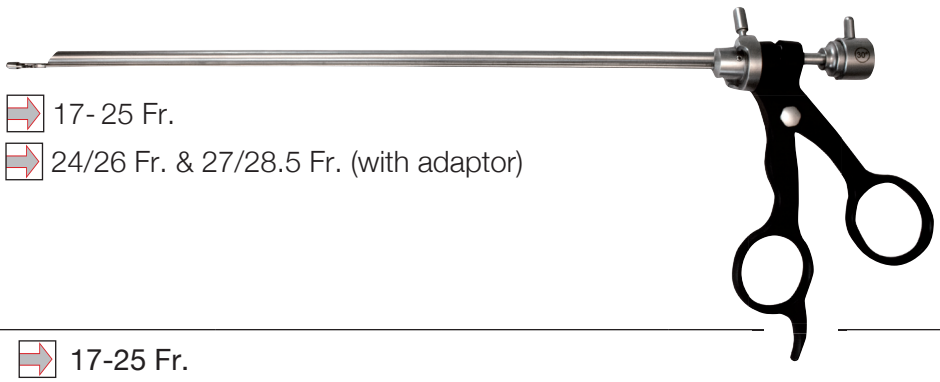
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CYSTO-URETHROSCOPY

- Optical forceps for telescopes Ø 4.0 mm
- 17 - 25 Fr.

TONTARRA´s optical forceps include scissors, forceps and punches for biopsy, foreign body extraction & resectoscopic tissue removal. Extremely sharp cutting jaws, the stability of the entire instru ment and an excellent flow rate enable the surgeon to safely perform mini-operations under vision right under the telescope objective.

FOR USE WITH:
· Cysto-Urethroscopes ⇨ 17- 25 Fr.
· Resectoscopy sheaths ⇨ 24/26 Fr. & 27/28.5 Fr. (with adaptor)



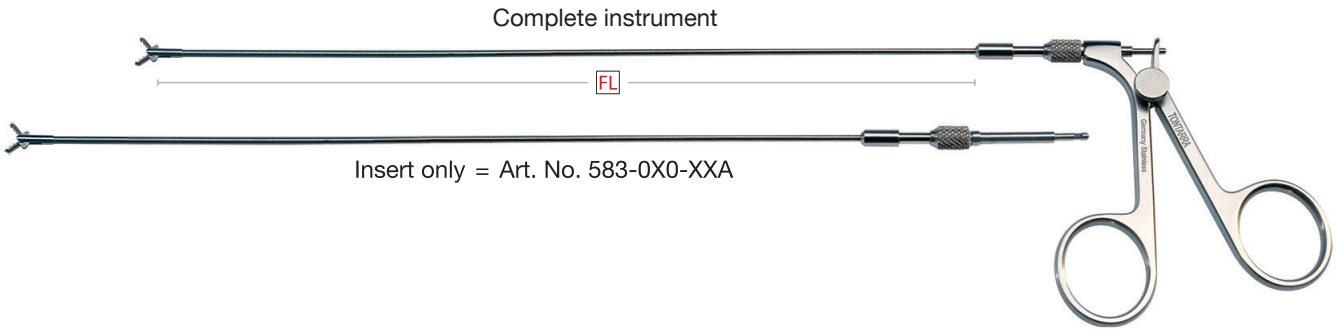
OPTICAL FORCEPS ▶ ⇨ 17-25 Fr.

Description	Art. No.		Information
GRASPING FORCEPS ▶ optical 0°/12°/30°	630-035-00		 601-104-00HD 601-104-00HD2
BIOPSY SPOON FORCEPS ▶ optical 0°/12°/30°	630-035-05		 601-104-12HD 601-104-12HD2
BIOPSY PUNCH ▶ optical 0°/12°/30°	630-035-10		 601-104-30HD 601-104-30HD2
HOOK SCISSORS ▶ optical 0°/12°/30°	630-035-20		
BIOPSY PUNCH ▶ optical 30°	630-035-13		 601-104-30HD 601-104-30HD2
BIOPSY SPOON FORCEPS ▶ optical 70°	630-035-15		 601-104-70HD 601-104-70HD2
ADAPTOR for using optical instruments in resectoscopy sheaths	630-035-25		

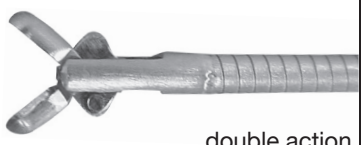
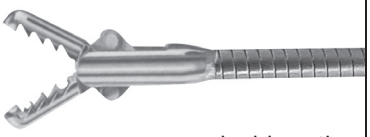
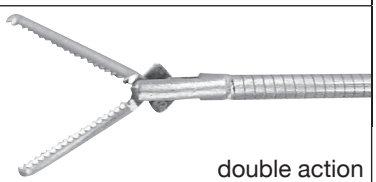
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FLEXIBLE INSTRUMENTS

- For Cysto-Urethroscopes and Urethrotomes
- Instrument channels 5 Fr. / 7 Fr. / 9 Fr. for telescopes Ø 4 mm



FLEXIBLE INSTRUMENTS ▶ FL 400 mm

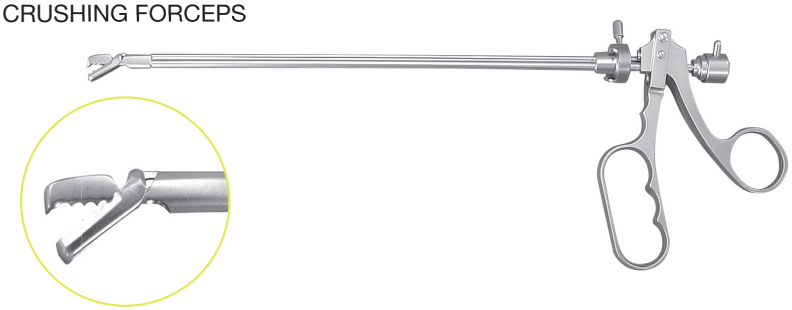
Description	5 Fr.	7 Fr.	9 Fr.	Information
BIOPSY FORCEPS ▶ flexible, oval, complete	583-010-16	583-010-23	583-010-30	
INSERT only	583-010-16A	583-010-23A	583-010-30A	double action
SCISSORS ▶ flexible, complete	583-020-16	583-020-23	583-020-30	
INSERT only	583-020-16A	583-020-23A	583-020-30A	single action
HOOK SCISSORS ▶ flexible, complete	583-030-16	583-030-23	583-030-30	
INSERT only	583-030-16A	583-030-23A	583-030-30A	single action
BIOPSY FORCEPS ▶ flexible, oval ▶ serrated, complete	583-050-16	583-050-23	583-050-30	
INSERT only	583-050-16A	583-050-23A	583-050-30A	double action
GRASPING FORCEPS ▶ flexible, alligator jaw ▶ complete	583-060-16	583-060-23	583-060-30	
INSERT only	583-060-16A	583-060-23A	583-060-30A	double action
GRASPING FORCEPS ▶ flexible, serrated ▶ complete	583-070-16	583-070-23	583-070-30	
INSERT only	583-070-16A	583-070-23A	583-070-30A	double action
HANDLE only (spare part)	583-305-00	for all urologic micro instruments 5/7/9 Fr. with Art. No's. 583-XXX-XX		

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LITHOTRIPSY

▶ Instruments for Ø 4 mm telescopes

OPTICAL STONE CRUSHING FORCEPS ▶ 25 Fr.

Description	Art. No.	Information
STONE CRUSHING FORCEPS 	630-035-30	0° 601-104-00HD 601-104-00HD2 12° 601-104-12HD 601-104-12HD2 30° 601-104-30HD 601-104-30HD2
ADAPTOR for using stone crushing forceps (No. 630-035-30) in outer resectoscopic sheaths 	630-035-35	QL

For the lithotripsy of small stones, as well as an indispensable tool to split large stones to prepare the removal of larger stone fragments from the bladder through suction.

TO USE WITH:
· Cystoscopy sheaths 25 Fr.
· Adapter with Luer Lock to connect to resectoscopy outer sheaths 26 Fr. 28.5 Fr.

LITHOTRIPTOR (mechanical) ▶ 24 Fr.

Description	Art. No.	Information
LITHOTRIPTOR ▶ rotatable ▶ 2 stopcocks 	630-035-85	70° 601-104-70HD 601-104-70HD2

Two mechanisms, one instrument: Grasping and grinding of a stone is done with the lever handle mechanism. In case the manual force is not sufficient to split the stone, the mechanism of the spindle wheel mechanism will surely do so. Smaller stone residues can then be easily triturated again with the lever handle.

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LITHOTRIPSY

▶ Instrument system for Ø 4 mm telescopes

LITHOTRIPSY SYSTEM ▶ 25.5 Fr.

Description	Art. No.	Information
LITHOTRIPSY SHEATH WITH CENTRAL VALVE; 25.5 Fr. (without obturator) 	630-040-00	
STANDARD OBTURATOR ▶ for lithotripsy sheath ▶ 25.5 Fr. 	630-040-10	
WORKING ELEMENT FOR PUNCH LITHOTRIPSY ▶ optical ▶ 25.5 Fr. 	630-040-05	12° 601-104-12HD 601-104-12HD2 30° 601-103-30HD 601-103-30HD2
TELESCOPE BRIDGE FOR LITHOTRIPSY ▶ 1 instrument channel 7 Fr.; only for flexible instruments ▶ 25.5 Fr. 	630-040-15	

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CYSTO-URETHROSCOPY

- Systems for Ø 2.9 mm telescopes
- 15 Fr.

TONTARRA's 15 French cystoscopes for Ø 2.9 mm telescopes with a working length of 225 mm permit atraumatic diagnostics in adolescents and patients who require a very considerate intervention (f.e. delicate status of the lower urinal tract structures or general poor health conditions), or with extremely tight surroundings within the urogenital system. The sheath length permits to reach the proximal end of the urethra and into the bladder.

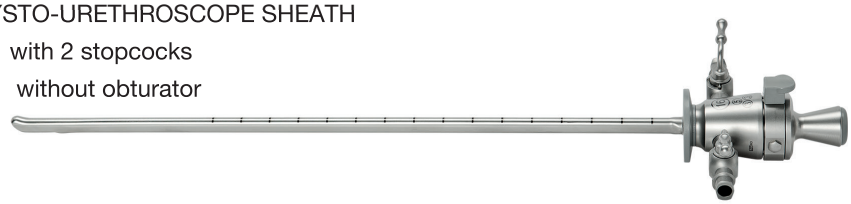
Our compact system works in combination with a 30° telescope, which allows thorough bladder inspections and biopsies (particularly within the base and posterior aspect of the bladder).

CYSTO-URETHROSCOPY COMPACT SYSTEM ▶ 15 Fr.

Description	Art. No.	Information
CYSTO-URETHROSCOPE SHEATH ▶ with 2 stopcocks ▶ integrated instrument channel 5 Fr. (without obturator) 	630-042-01	  601-103-30HD2
STANDARD OBTURATOR 	630-042-02	

The TONTARRA cystoscopy system for Ø 2.9 mm telescopes with sheath, obturator, three different telescope bridges and Albarran deflector enables the use of telescopes with different angles (0° – 12° – 30° – 70°). Most frequently used and recommended are 30° and 70° telescopes.

CYSTO-URETHROSCOPE SYSTEM ▶ 15 Fr.

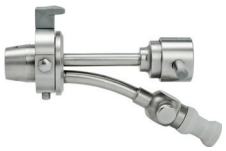
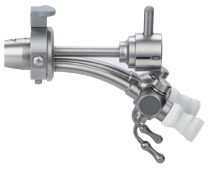
Description	Art. No.	Information
CYSTO-URETHROSCOPE SHEATH ▶ with 2 stopcocks ▶ without obturator 	630-042-15	 
STANDARD OBTURATOR 	630-042-20	

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CYSTO-URETHROSCOPY

- Systems for ⌀ 2.9 mm telescopes
- 15 Fr.

TELESCOPE BRIDGES ▶ 15 Fr.

		
TELESCOPE BRIDGE for diagnostic	TELESCOPE BRIDGE with 1 instrument channel 5 Fr.	TELESCOPE BRIDGE with 2 instrument channels (1 x 5 Fr. or 2 x 3 Fr.)
630-042-21	630-042-22	630-042-23
 601-103-12HD  601-103-30HD2	 601-103-12HD  601-103-30HD2  601-103-70	
For adaption of the cystoscope length to telescope length. The working channel(s) not only support the use of flexible instruments and electrodes: Our models feature a very flat insertion angle, which also facilitates the use of semi-rigid instruments.		



ALBARRAN DEFLECTOR ▶ 15 Fr.

Description	Art. No.	Information
with 1 instrument channel 5 Fr.	630-042-25	 601-103-30HD2  601-103-70
 The Albarran deflecting mechanism enhances the control when positioning accessories (electrodes, flexible instruments, catheters). The Albarran lever can be locked at 5 different angles (up to 90°).		

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CYSTO-URETHROSCOPY

- Flexible electrodes for use with monopolar current and no-conductive solution (Sorbitol, Mannitol, Glycine); 3-7 Fr.
- Semi-flexible electrodes for use with bipolar current and conductive solution (NaCl 0.9%); 5 Fr.



FLEXIBLE ELECTRODES; MONOPOLAR ▶ FL 470 mm

			
Size	BUTTON ELECTRODE	NEEDLE ELECTRODE, angled	LOOP ELECTRODE
3 Fr.	582-510-03	–	–
5 Fr.	582-510-05	582-511-05	582-514-05
7 Fr.	582-510-07	582-511-07	582-514-07

Other sizes (4 Fr./6 Fr./8 Fr./9 Fr.) available on request

HF CONNECTION CABLES; MONOPOLAR for working elements and flexible electrodes

Available for following units:	**3.0 m**	Plug instrument side 	For further information and pictures see the overview about cables in the chapter „Accessories”.
Aesculap/Rudolf/Martin/Berchthold; GN Ø 4.0 mm	582-530-01		
Erbe/Storz Ø 5.0 mm	582-531-02		
Valleylab, Conmed; Bowa Ø 8.0 mm	582-532-03		
TONTARRA mod. PWT-400; Equipment with banana plug; Ø 4.0 mm	582-533-04		



SEMI-FLEXIBLE ELECTRODES; BIPOLAR ▶ FL 360 mm

For use in bipolar current mode and conductive solution (physiologic saline solution, NaCl 0.9 %)			
Size	BUTTON ELECTRODE	NEEDLE ELECTRODE, angled	NEEDLE ELECTRODE, straight
5 Fr.	582-515-05	582-516-05	582-517-05

HF CONNECTION CABLES; BIPOLAR for semi-flexible electrodes with bipolar cables for flat-cable plug

Available for following units:	**3.0 m**	**5.0 m**		For further information and pictures see the overview about cables in the chapter „Accessories”.
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	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		

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RESECTOSCOPY

Ø 4 mm

- 24/26 Fr.
- 27/28.5 Fr.



RESECTOSCOPY

▶ Schematic overview

HYBRID RESECTOSCOPY

< BOTH SYSTEMS >

RESECTOSCOPY monopolar



HYBRID RESECTOSCOPY

- for monopolar use or
- for bipolar use in saline solution NaCl 0.9 %

Compatible:
LASER WORKING ELEMENTS
for Ø 4 mm telescopes
for Ø 2.9 mm telescopes

Compatible:
VISUAL URETHROTOME SYSTEM
for Ø 4 mm telescopes; 21 Fr.

Continuous Flow
Outer Sheath

Continuous Flow
Inner Sheath

(rotatable or non-rotatable models)

0° 12° 30°

Adaptor
630-035-25

Optical Forceps;
6 different inserts

0° 12° 30° (for resectoscopy for Ø 4 mm telescopes)

Visual Obturator

30°

Irrigation &
Tubing
connectors;
sealing caps

Obturator

Optical Stone
Crushing Forceps

0° 12° 30° (for resectoscopy for Ø 4 mm telescopes)

Adaptor
630-035-35

Single Flow Sheath

0° 12° 30°

RESECTOSCOPY for monopolar use only

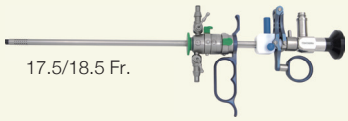
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Systems and components for Ø 4.0 mm telescopes
Systems and components for Ø 2.9 mm telescopes

24/26 Fr.
27/28.5 Fr.
19/22 Fr.
17.5/18.5 Fr.



MINI-CYSTO-RESECTOSCOPE
for Ø 2.9 mm telescopes
for use with bipolar current
in saline solution NaCl 0.9 %



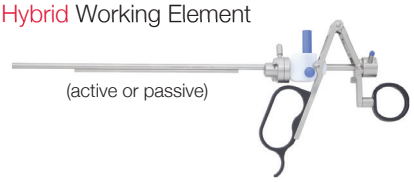
17.5/18.5 Fr.

Electrodes bipolar
(Reusable or SALINAE Single use)



(examples)

Hybrid Working Element



(active or passive)

HF Connection cables (2 types):

monopolar
to connect working element to HF generator

bipolar
to connect working element to HF generator

Telescopes Ø 4.0 / Ø 2.9 mm
0°; 12°; 30°; 70°



HF Generator

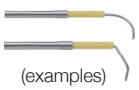


Electrodes monopolar



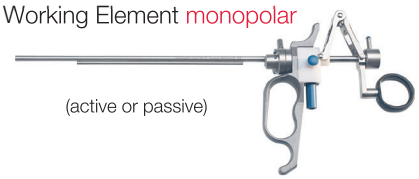
(examples)

HF Needle electrodes
monopolar
(for resectoscopy
for Ø 4 mm telescopes)



(examples)

Working Element monopolar

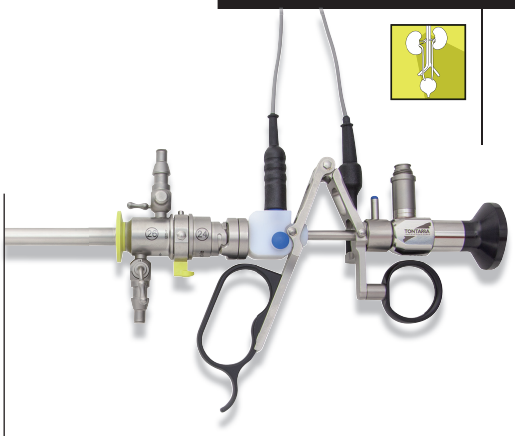


(active or passive)

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RESECTOSCOPY

TONTARRA features an extensive resectoscopic modular system build around supreme quality resectoscopic sheaths in different sizes, several types of working elements, plus a wide range of electrodes for use with monopolar current, or bipolar current in saline solution (0.9 % NaCl).



TONTARRA Hybrid Resectoscopy Systems respond to actual trends in contemporary urologic resectoscopy.

TONTARRA´S PORTFOLIO INCLUDES

FOR Ø 4.0 mm TELESCOPES:

▶ RESECTOSCOPY LINE 24/26 Fr.

- Continuous flow sheaths for mono- & bipolar use
- Single flow sheaths for monopolar use
- Hybrid Working elements for mono- or bipolar current, or working elements only for monopolar use; working elements for Gyrus electrodes
- Laser resectoscopy
  (see the separate chapter “Laser instruments”)

▶ RESECTOSCOPY LINE 27/28.5 Fr.

- Continuous flow sheaths for monopolar use
- Single flow sheaths for monopolar use
- Laser resectoscopy
  (see the separate chapter “Laser instruments”)

▶ COMPATIBLE MICRO TOOLS

- Optical forceps for telescopes Ø 4.0 mm
- Optical stone crushing forceps for use in resectoscopy sheath 26 & 28.5 Fr.

FOR Ø 2.9 mm TELESCOPES:

▶ RESECTOSCOPY LINE 19/22 Fr.

- Continuous flow sheaths for mono- & bipolar use
- Single flow sheaths for monopolar use

▶ MINI-RESECTOSCOPE 17.5/18.5 Fr.

- for bipolar use
- with working sheath extra

The tendency clearly goes towards the use of bipolar current in saline solution (0.9 % NaCl) as distension medium thanks to its several advantages:

- less risk for hyponatremia and hypervolemia
- less distension volume/less strain on the tissue
- lower work temperature on tissue during surgery which results in less necrosis around the treated areas

▶ Reusable mono- & bipolar electrodes and bipolar single use electrodes (Salinæ)

19/22 Fr. 24/26 Fr. 27/28 Fr.

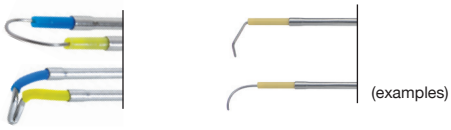
Monopolar electrodes



(examples)

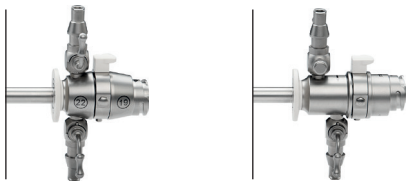
Bipolar electrodes

Monopolar HF-needle electrodes



(examples)

19/22 Fr: TONTARRA´s „White Line“



A further miniaturization of instruments in Urology is reflected by TONTARRA´s 19/22 Fr. resectoscopy system for Ø 2.9 mm telescopes. The loops are optimally designed for lower impact and patient-friendly interventions, which lead to a faster healing process for the patient and cost reduction for health care systems.

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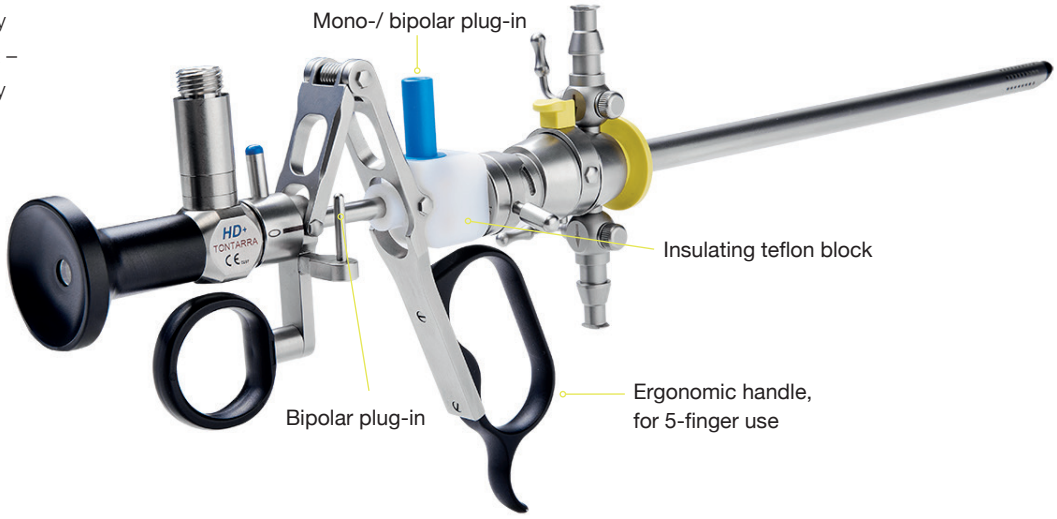
RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

▶ HYBRID HF working elements 24/26 Fr.

24/26 Fr.

Hybrid Resectoscopes facilitate the gradual integration of new procedures into clinics, and provide the freedom of choice to either proceed working with monopolar distension mediums, or to gradually change procedures to the use of bipolar current in saline solution.

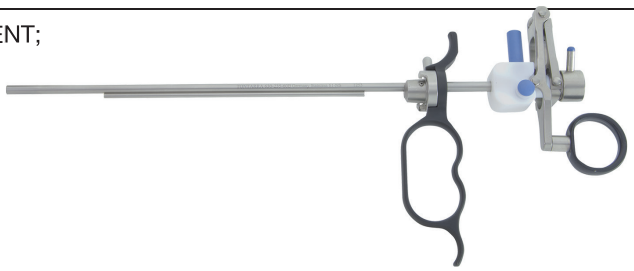
A light-weight and extremely ergonomic working element – made with sections of highly resistant titanium.



HYBRID HF WORKING ELEMENTS; closed handle

▶ For use with electrodes in monopolar current mode and non-conductive solution (e.G. Sornitol, Mannitol, Glycine)

▶ For use with electrodes in bipolar current mode and conductive solution (physiologic saline solution, NaCl 0.9 %)

Description	Art. No.	HF-Connection
WORKING ELEMENT; active 	630-235-10B	upwards
WORKING ELEMENT; passive * 	630-235-60B	upwards
SAFETY DISTANCE HOLDER for bipolar working element 630-235-10B; 635-235-60B (1.1 mm width) 10 pc./unit 	582-150-02GUB	–

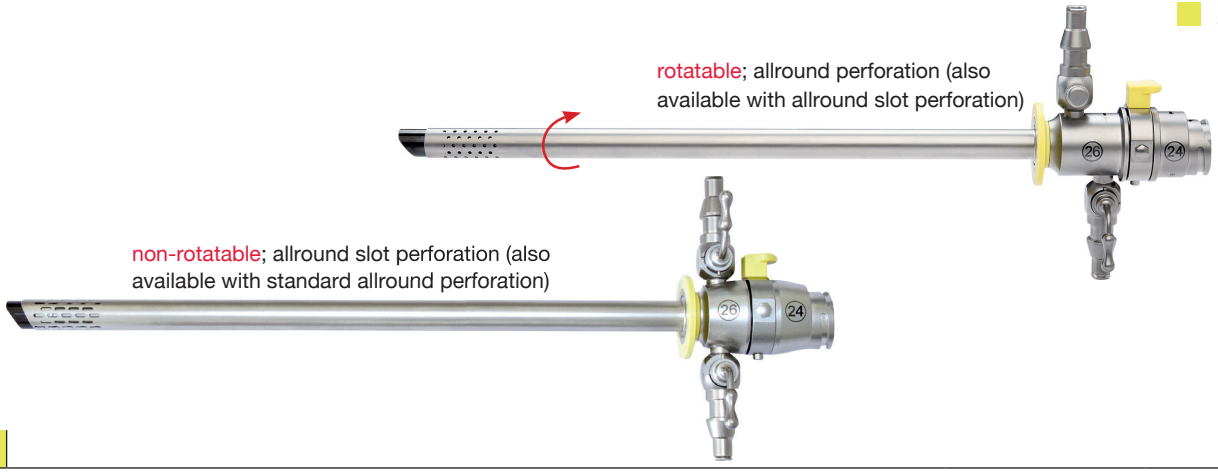
*Also for use in urethrotomy

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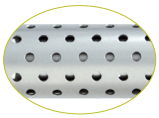
RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

▶ HYBRID continuous flow sheaths for mono- & bipolar use

24/26 Fr.



CONTINUOUS FLOW SHEATHS; 2 stopcocks; without obturator ▶ yellow

Description	Allround perforation	Slot perforation
The continuous flow sheaths are available with allround- or slot perforation (see the pictures to the right)		
non-rotatable		
OUTER SHEATH ▶ 26 Fr. ▶ 2 stopcocks 	630-204-06	630-204-07
INNER SHEATH ▶ 24/26 Fr. 	630-204-26	630-204-26
rotatable		
OUTER SHEATH ▶ 26 Fr. ▶ 2 stopcocks 	630-209-06	630-209-07
INNER SHEATH ▶ 24/26 Fr. 	630-209-26	630-209-26

0° 601-104-00HD; 601-104-00HD2

12° 601-104-12HD; 601-104-12HD2

30° 601-104-30HD; 601-104-30HD2

Compatible to Laser working elements and accessories: see chapter „Laser instruments“

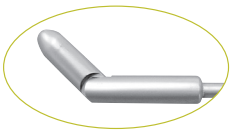
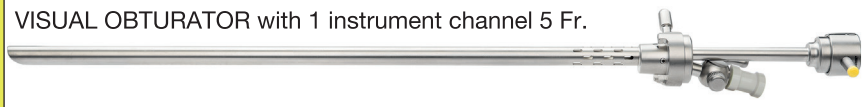
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RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

- Outer sheaths/Inner sheaths
- Obturators & adaptor

24/26 Fr.

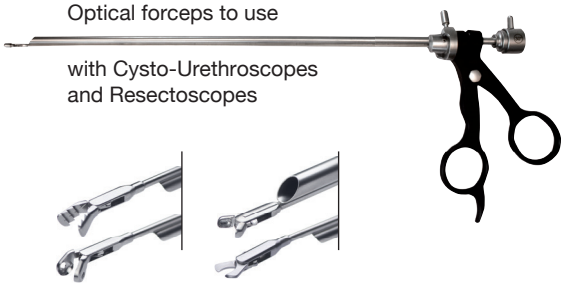
OBTURATORS; ADAPTOR

Description	yellow	Information
STANDARD OBTURATOR 	630-215-24	
DEFLECTING TIP OBTURATOR 	630-220-24	
VISUAL OBTURATOR 	630-225-24	 601-104-30HD 601-104-30HD2
VISUAL OBTURATOR with 1 instrument channel 5 Fr. 	630-230-24	
ADAPTOR for using optical instruments in resectoscopy sheaths 	630-035-25	

For Hybrid Resectoscopy Systems and monopolar single flow sheaths

MICRO TOOLS COMPATIBLE TO THE 24/26 FR. RESECTOSCOPY SYSTEM

- Optical forceps:



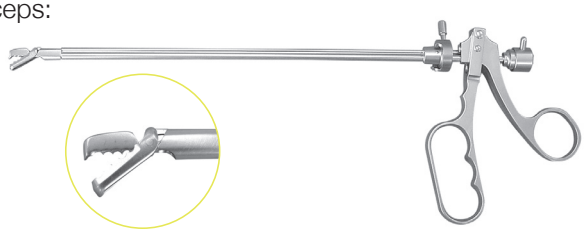


ADAPTOR for using optical instruments in resectoscopy sheaths

24/26 Fr. & 27/28.5 Fr.

(Art. No. 630-035-25)

- Stone crushing forceps:





ADAPTOR for using stone crushing forceps in resectoscopic sheaths

24/26 Fr. & 27/28.5 Fr.

(Art. No. 630-035-35)

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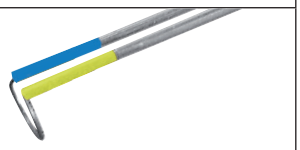
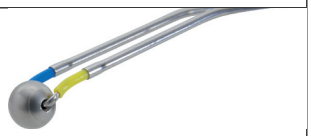
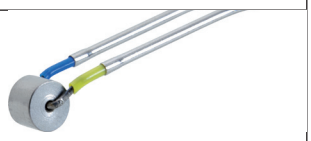
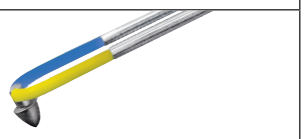
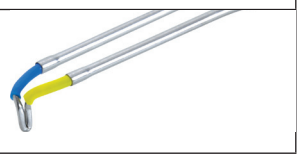
RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

- Reusable electrodes for use with bipolar current and conductive solution (NaCl 0.9 %)
- SALINÆ disposable electrodes for use with bipolar current and conductive solution (NaCl 0.9 %)

24/26 Fr.

BIPOLAR ELECTRODES; reusable or single use

24/26 Fr.

Description	Colour code	Reusable	SALINÆ Single use electrodes*	
LOOP ELECTRODE; angled; 30°	yellow/blue	630-240-00B	630-240-00B-S	
PI CUT LOOP ELECTRODE; for high temperatures	yellow/blue	630-240-00BPI	–	
LOOP ELECTRODE	yellow/blue	630-240-05B	–	
LOOP ELECTRODE; straight	yellow/blue	630-240-10B	630-240-10B-S	
BALL ELECTRODE; Ø 3 mm	yellow/blue	630-240-15B	630-240-15B-S	
BALL ELECTRODE; Ø 5 mm	yellow/blue	630-240-20B	–	
ROLLER ELECTRODE; Ø 3 mm	yellow/blue	630-240-25B	–	
ROLLER ELECTRODE; Ø 5 mm	yellow/blue	630-240-30B	–	
CONICAL ELECTRODE	yellow/blue	630-240-35B	–	
KNIFE ELECTRODE	yellow/blue	630-240-40B	630-240-40B-S	

* Sterile, single packaged; 5 pcs./box

For cable connection see cable overview

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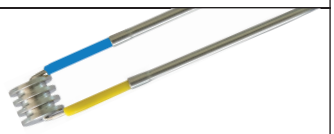
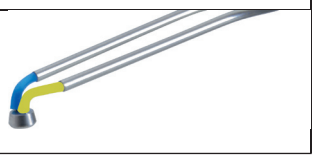
RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

▶ Reusable electrodes for use with bipolar current and conductive solution (NaCl 0.9 %)

24/26 Fr.

BIPOLAR ELECTRODES; reusable

24/26 Fr.

Description	Colour code	Reusable	SALINÆ Single use electrodes	
VAPORIZATION ELECTRODE; Ø 3 mm; toothed	yellow/blue	630-240-45B	–	
VAPORIZATION ELECTRODE; Ø 3 mm; smooth	yellow/blue	630-240-55B	–	
VAPORIZATION ELECTRODE; Ø 5 mm; smooth	yellow/blue	630-240-60B	–	
BAND ELECTRODE; angled	yellow/blue	630-240-65B	–	
BAND ELECTRODE; angled	yellow/blue	630-240-70B	–	
VAPORIZATION ELECTRODE; cone shaped	yellow/blue	630-240-75B	–	

For cable connection see cable overview in „Accessories“

HF CONNECTION CABLES; BIPOLAR to connect working element to HF generator; bipolar mode for resectoscopy

Available for following units:			
Erbe mod. ICC/ACC, Storz	287-200-30BR	(3.0 m)	For further information and pictures see the overview about cables in the chapter „Accessories”.
Berchthold/Martin mod. Maxium	287-205-30BR	(3.0 m)	
TONTARRA mod. PWT-400; International Models; 2-pins	287-215-30BR	(3.0 m)	
Erbe mod. VIO 300D and VIO3 with multi-contact connector; Karl Storz mod. Autocon II 400	287-220-30BR	(4.0 m)	
Emed-HF mod. Spectrum	287-225-30BR	(4.5 m)	
Bowa mod. ARC 350 & 400	287-230-30BR	(4.5 m)	

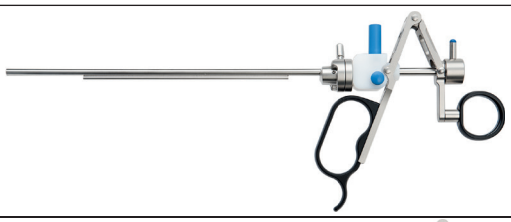
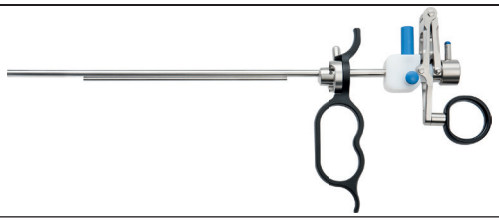
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RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

- Working elements; monopolar
- Single flow sheaths

24/26 Fr.
27/28.5 Fr.

MONOPOLAR HF WORKING ELEMENTS; closed handles

Description	Art. No.	HF-Connection	
WORKING ELEMENT; active	630-235-10	downwards	
WORKING ELEMENT; passive	630-235-60	downwards	
WORKING ELEMENT; active	630-235-11	upwards	
WORKING ELEMENT; passive	630-235-61	upwards	

SINGLE FLOW SHEATHS; 24 Fr. (for monopolar use only)

Size	Colour Code	Art. No.	Information
SINGLE FLOW SHEATH with 1 stopcock 	yellow	630-200-24	
SINGLE FLOW SHEATH with central valve 		630-202-24	

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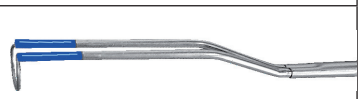
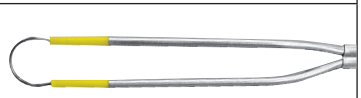
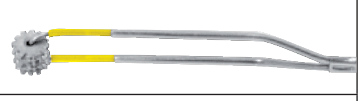
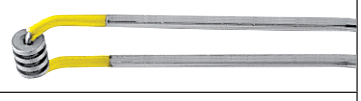
RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

▶ Reusable electrodes for use with monopolar current and no-conductive solution (Sorbitol, Mannitol, Glycine)

24/26 Fr.

MONOPOLAR HF ELECTRODES

24/26 Fr.

24/26 Fr.	Colour code	Art. No.	Electrode Spez.	
LOOP ELECTRODE; angled 30°	yellow	630-240-00	30°	
LOOP ELECTRODE; angled 12°	blue	630-240-05	–	
LOOP ELECTRODE; straight	yellow	630-240-10		
BALL ELECTRODE	yellow	630-240-15	Ø 3.0 mm	
	yellow	630-240-20	Ø 5.0 mm	
ROLLER ELECTRODE	yellow	630-240-25	Ø 3.0 mm	
	yellow	630-240-30	Ø 5.0 mm	
CONICAL ELECTRODE	yellow	630-240-35		
KNIFE ELECTRODE; angled	yellow	630-240-40		
VAPORIZATION ELECTRODE; toothed	yellow	630-240-45	Ø 3.0 mm	
	yellow	630-240-50	Ø 5.0 mm	
VAPORIZATION ELECTRODE; smooth	yellow	630-240-55	Ø 3.0 mm	
	yellow	630-240-60	Ø 5.0 mm	
BAND ELECTRODE; angled	yellow	630-240-65	30°	
	yellow	630-240-70	0°/12°	

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RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

- HF-Needle electrodes for papillary bladder tumor resection
- Reusable electrodes for use with monopolar current and no-conductive solution (Sorbitol, Mannitol, Glycine)

24/26 Fr.



HF-NEEDLE ELECTRODES for papillary bladder tumor resection; monopolar

24/26 Fr.

27/28.5 Fr.	Art. No.	Electrode Spez.	
HF-NEEDLE ELECTRODE; angled down; left; 24/26 Fr. 	630-240-80	HF-NEEDLE ELECTRODE; angled down; right; 24/26 Fr. 	630-240-85
HF-NEEDLE ELECTRODE; angled; left; 24/26 Fr. 	630-240-90	HF-NEEDLE ELECTRODE; angled; right; 24/26 Fr. 	630-240-95
For the resection of papillary tumors in one piece. The four different forms of the loops enable the tumor resection from different locations of the bladder wall.			

HF CONNECTION CABLES; MONOPOLAR for semi-flexible electrodes / for working elements

Available for following units:	3.0 m		
Aesculap/Rudolf/Martin/Berchthold GN Ø 4.0 mm	582-530-01		For further information and pictures see the overview about cables in the chapter „Accessories".
Erbe/Storz; Ø 5.0 mm	582-531-02		
Valleylab;Conmed; Bowa; Ø 8.0 mm	582-532-03		
Equipment with banana plug; Ø 4.0 mm	582-533-04		

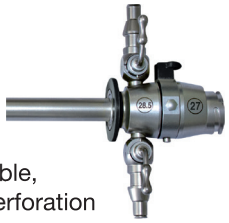
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RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

- HYBRID continuous flow sheaths for mono- & bipolar use
- Obturators & adaptor

■ 27/28.5 Fr.

CONTINUOUS FLOW SHEATHS; 2 stopcocks

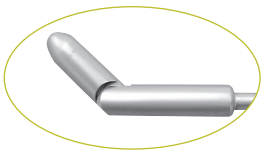
Description	Allround perforation	
 rotatable, allround perforation	 non-rotatable, allround perforation	
	Non-rotatable	Rotatable
OUTER SHEATH (28.5 Fr.)	630-204-08	630-209-08
INNER SHEATH (27 Fr.)	630-204-28	630-209-28

Compatible to Laser working elements and accessories: see chapter „Laser instruments“

All mono- and bipolar electrodes for the 24/26 Fr. resectoscopy system can be used also with the 27/28.5 Fr. system.
For monopolar electrodes 27/28.5 Fr. see next page

OBTURATORS; ADAPTOR

27/28.5 Fr.

Description	Art. No.	Information
STANDARD OBTURATOR 	630-215-27	
DEFLECTING TIP OBTURATOR 	630-220-27	
VISUAL OBTURATOR 	630-225-27	30° 601-104-30HD 601-104-30HD2
VISUAL OBTURATOR with 1 instrument channel 7 Fr. 	630-230-27	
ADAPTOR for using optical instruments in resectoscopy sheaths 	630-035-25	

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RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

- Single flow sheaths for monopolar use
- Reusable electrodes for use with monopolar current and no-conductive solution (Sorbitol, Mannitol, Glycine)

■ 27/28.5 Fr.

SINGLE FLOW SHEATHS (for monopolar use only)

Description	Art. No.
SINGLE FLOW SHEATH with 1 stopcock; 27 Fr. 	630-200-27
SINGLE FLOW SHEATH with central valve; 27 Fr. 	630-202-27

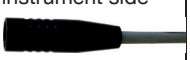
MONOPOLAR ELECTRODES

27/28.5 Fr.

27/28.5 Fr.	Colour code	Art. No.	Electrode Spec.	
LOOP ELECTRODE; angled	■ brown	630-240-01	30 °	
	■ brown	630-240-06	12 °	
LOOP ELECTRODE; straight	■ brown	630-240-11		
KNIFE ELECTRODE; angled	■ brown	630-240-41		

Monopolar electrodes for 24/26 Fr. resectoscopes can also be used with TONTARRA´s 27/28.5 Fr. resectoscopes.

HF CONNECTION CABLES; MONOPOLAR for working elements and flexible electrodes

Available for following units:	3.0 m		
Aesculap/Rudolf/Martin/Berchthold GN; Ø 4.0 mm	582-530-01	Plug instrument side 	For further information and pictures see the overview about cables in the chapter „Accessories”.
Erbe/Storz; Ø 5.0 mm	582-531-02		
Valleylab; Conmed; Bowa; Ø 8.0 mm	582-532-03		
TONTARRA mod. PWT-400; Equipment with banana plug; Ø 4.0 mm	582-533-04		

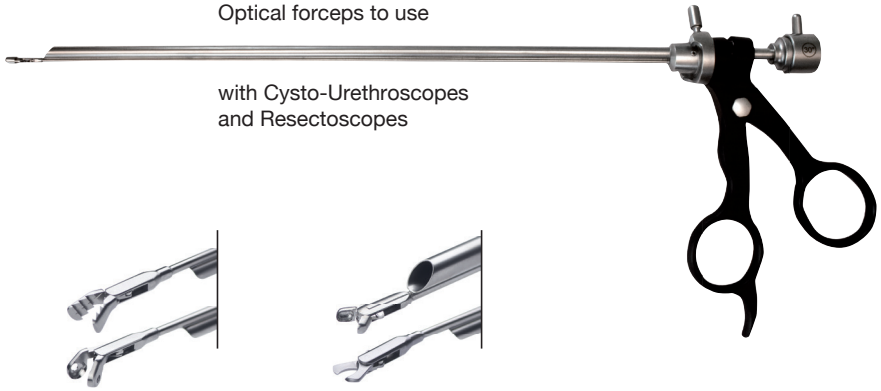
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MICRO TOOLS COMPATIBLE TO THE 27/28.5 Fr. RESECTOSCOPY SYSTEM

▶ Optical forceps:

Optical forceps to use

with Cysto-Urethroscopes
and Resectoscopes





ADAPTOR for using optical instruments in resectoscopy sheaths

24/26 Fr. & 27/28.5 Fr.

(Art. No. 630-035-25)

▶ Stone crushing forceps:





ADAPTOR for using stone crushing forceps in resectoscopic sheaths

24/26 Fr. & 27/28.5 Fr.

(Art. No. 630-035-35)

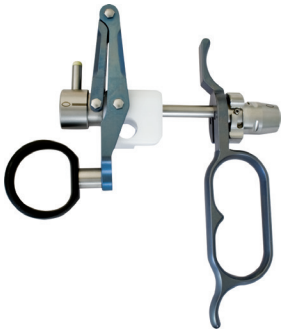
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RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

- Working elements for Ø 4.0 mm telescopes
- To use with bipolar Gyrus electrodes

WORKING ELEMENT TO USE WITH GYRUS ELECTRODES; BIPOLAR

- Titanium; closed handle

Compatibility	Active cutting	Passive cutting	Conus	
GYRUS / Storz	630-350-05	630-350-55	2 included	
extra conus			630-350-90	
GYRUS / Wolf	630-351-05	630-351-55	1 included	
extra conus			630-351-90	
GYRUS / Olympus	630-352-05	630-352-55	1 included	
extra conus			630-352-90	
GYRUS / ACMI		630-353-55	1 included; extra conus not available	

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TONTARRA



RESECTOSCOPY

Ø 2.9 mm

◀ 19/22 Fr.

RESECTOSCOPY SYSTEM FOR Ø 2.9 mm TELESCOPES

▶ Working elements (hybrid or monopolar) for Ø 2.9 mm telescopes

HYBRID WORKING ELEMENTS; closed handles

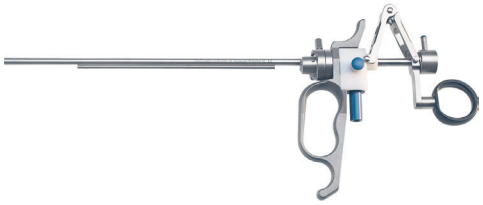
▶ For use with electrodes in monopolar current mode and non-conductive solution (e.G. Sornitol, Mannitol, Glycine)

▶ For use with electrodes in bipolar current mode and conductive solution (physiologic saline solution, NaCl 0.9 %)

Description	Art. No.	HF-Connection	
HYBRID WORKING ELEMENT; active	630-335-10B	upwards	
HYBRID WORKING ELEMENT; passive*	630-335-60B	upwards	

*Also for use in urethrotomy

WORKING ELEMENTS FOR MONOPOLAR USE; closed handles

Description	Art. No.	HF-Connection	
WORKING ELEMENT; active	630-335-10	downwards	
WORKING ELEMENT; passive*	630-335-60	downwards	

*Also for use in urethrotomy

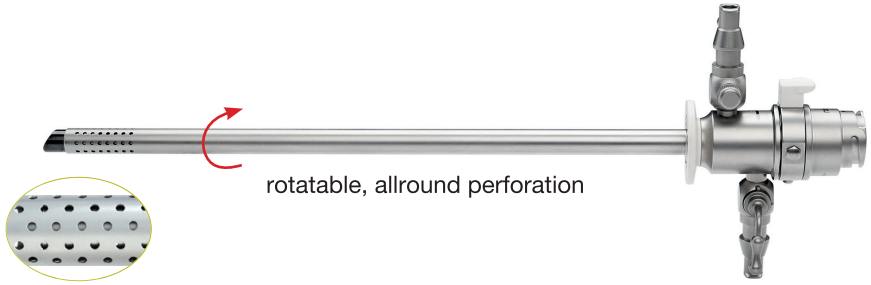
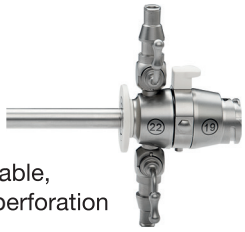
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RESECTOSCOPY SYSTEM FOR Ø 2.9 mm TELESCOPES

- Resectoscopy sheaths for mono & bipolar use
- Obturators

☐ 19/22 Fr.

HYBRID CONTINUOUS FLOW SHEATHS; 2 stopcocks

Description	Allround perforation	
		
	Non-rotatable	**Rotatable**
OUTER SHEATH; 22 Fr.	630-304-01	630-309-01
INNER SHEATH; 19 Fr.	630-304-21	630-309-21

Compatible to Laser working elements and accessories: see chapter „Laser instruments“

SINGLE-FLOW SHEATH (for monopolar use only)

Description	Colour code	Art. No.
RESECTOSCOPY SHEATH; 19 Fr. 1 stopcock 	☐ white	630-300-19

OBTURATORS 19/22 Fr.

Size	Colour code	Art. No.	Information
STANDARD OBTURATOR 	☐ white	630-315-19	
VISUAL OBTURATOR 	☐ white	630-325-19	 601-103-30HD2

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RESECTOSCOPY SYSTEM FOR Ø 2.9 mm TELESCOPES

- Reusable electrodes for use with bipolar current and conductive solution (NaCl 0.9%)
- SALINÆ disposable electrodes for use with bipolar current and conductive solution (NaCl 0.9%)
- Reusable electrodes for use with monopolar current and no-conductive solution (Sorbitol, Mannitol, Glycine)

☐ 19/22 Fr.

MONOPOLAR ELECTRODES; reusable
BIPOLAR ELECTRODES; reusable & single use

19/22 Fr.

Description	Monopolar	Bipolar	SALINÆ Single use electrodes*	
	☐ white	☐ white/blue	☐ white/blue	
LOOP ELECTRODE; angled; 12°	630-340-00	630-340-00B	630-340-00B-S	
LOOP ELECTRODE; straight; 0°/12°	630-340-05	630-340-05B	630-340-05B-S	
BALL ELECTRODE; Ø 3 mm	630-340-10	630-340-10B	630-340-10B-S	
KNIFE ELECTRODE; angled	630-340-15	630-340-15B	630-340-15B-S	
ROLLER ELECTRODE; Ø 3 mm	630-340-20	–	–	

*Sterile, single packaged; 5 pcs./box
For cable connection see cable overview in „Accessories“

Example:



630-340-05B or 630-340-05B-S

Reusable and SALINÆ single use electrodes for bipolar applications come with white/blue insulation.

HF CONNECTION CABLES; MONOPOLAR for working elements and flexible electrodes

Available for following units:	3.0 m
Aesculap/Rudolf/Martin/Berchthold GN; Ø 4.0 mm	582-530-01
Erbe/Storz; Ø 5.0 mm	582-531-02
Valleylab; Conmed; Bowa; Ø 8.0 mm	582-532-03
TONTARRA mod. PWT-400; Equipment with banana plug Ø 4.0 mm	582-533-04



For further information and pictures see the overview about cables in the chapter „Accessories”.

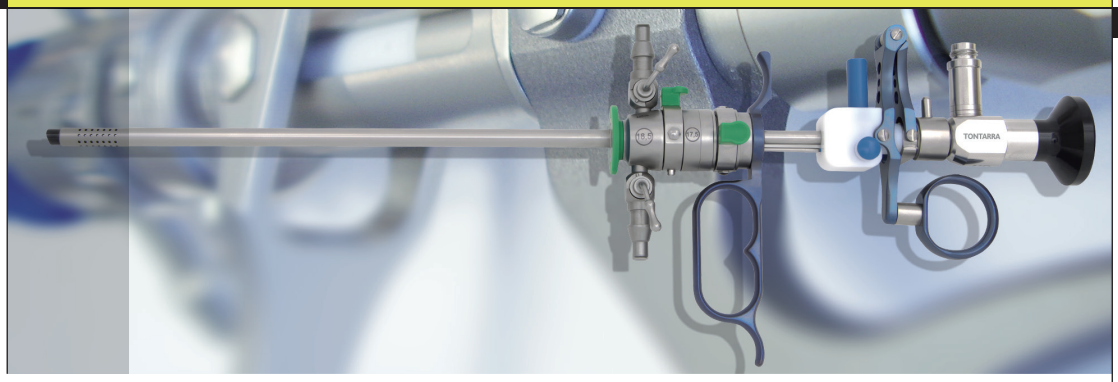
HF CONNECTION CABLES; BIPOLAR to connect working element to HF generator; BIPOLAR mode for resectoscopy

Available for following units:		
Erbe mod. ICC/ACC, Storz	287-200-30BR	(3.0 m)
Berchthold/ Martin mod. Maxium	287-205-30BR	(3.0 m)
TONTARRA mod. PWT-400; International Models; 2-pins	287-215-30BR	(3.0 m)
Erbe mod. VIO 300D and VIO3 with multi-contact connector; Karl Storz mod. Autocon II 400	287-220-30BR	(4.0 m)
Emed-HF mod. Spectrum	287-225-30BR	(4.5 m)
Bowa mod. ARC 350 & 400	287-230-30BR	(4.5 m)

For further information and pictures see the overview about cables in the chapter „Accessories”.

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TONTARRA



MINI-CYSTO-RESECTOSCOPY

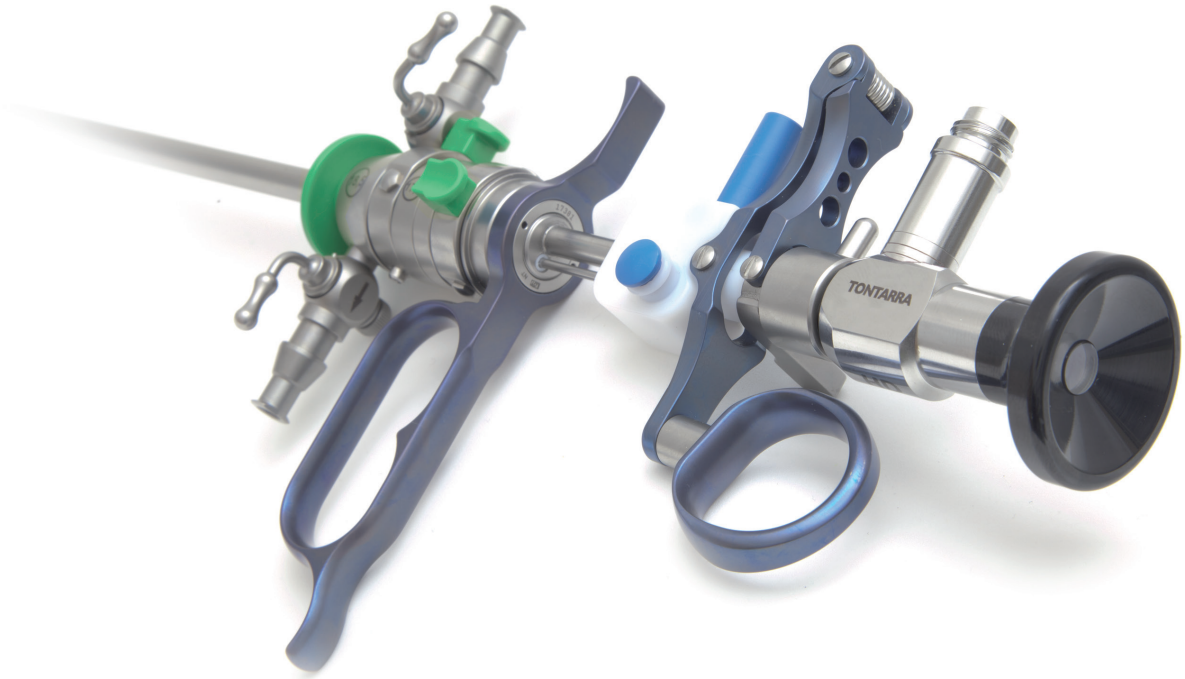
Ø 2.9 mm



- 17.5/18.5 Fr.
- 17 Fr.

MINI-CYSTO-RESECTOSCOPY SYSTEM FOR Ø 2.9 mm TELESCOPES

- Resectoscope plus additional working sheath with instrument channel 5 Fr.
- For biopsy and treatments inside the bladder



TONTARRA´s Mini-Cysto-Resectoscope can be used for treatment, especially inside the bladder. The small size of the instrument – the diameter of the round outer sheath only measures 18.5 Fr. - allows a less traumatic introduction through the urethra, and features an excellent maneuverability within the sensible structures of the lower urinary tract. Its handiness plus the functional shapes of the resectoscopic electrodes allow a perfectly controllable tissue ablation.

For cystoscopy, flexible instruments (FL 400 mm) and flexible monopolar and semi-flexible bipolar HF electrodes are introduced through the 5 Fr. instrument channel of the working sheath.

Resectoscopic treatments with HF electrodes are performed with bipolar current and conductive solution (saline solution NaCl 0.9 %).

The Quick Lock connecting system between inner, outer and working sheaths provides a smooth sheath exchange.

An optimized continuous flow rate assures a clear endoscopic view.

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MINI-CYSTO-RESECTOSCOPY SYSTEM FOR Ø 2.9 mm TELESCOPES

▶ Continuous flow resectoscopy- & working sheaths with 5 Fr. instrument channel

17.5/18.5 Fr.

CONTINUOUS FLOW SHEATHS; WORKING SHEATHS ▶ rotatable or non-rotatable

Description	Colour code	Art. No.
rotatable		
OUTER SHEATH 18.5 Fr. 	green	582-180-24
INNER SHEATH 17.5 Fr. 	green	582-180-26
WORKING SHEATH with instrument channel 5 Fr. for use with Art. No. 582-180-24 	green	582-180-39
non-rotatable		
OUTER SHEATH 18.5 Fr. 	green/blue	582-180-22
INNER SHEATH 17.5 Fr. 	green	582-180-21
WORKING SHEATH with instrument channel 5 Fr. for use with Art. No. 582-180-22 	green/blue	582-180-38

Sheaths with allround perforation

Recommended telescope: 601-103-30HD2

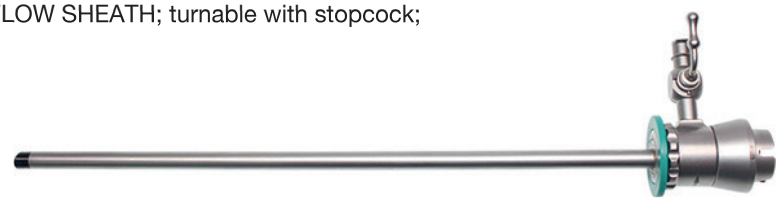
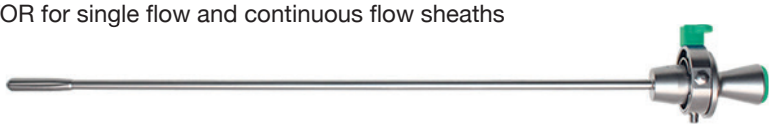
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MINI-CYSTO-RESECTOSCOPY SYSTEM FOR Ø 2.9 MM TELESCOPES

▶ Single flow sheath; obturator

■ 17.5 Fr.

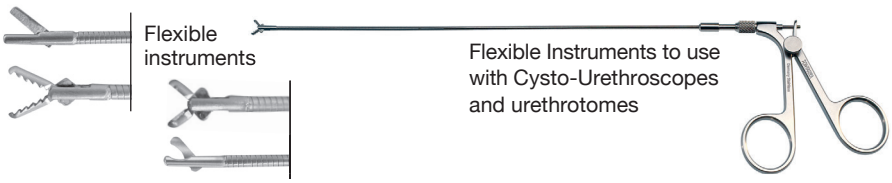
SINGLE FLOW SHEATH; OBTURATOR

Description	Colour code	Art. No.
Standard		
SINGLE FLOW SHEATH; turnable with stopcock; 17 Fr. 	■ green	582-180-15
OBTURATOR for single flow and continuous flow sheaths 	■ green	582-180-23

MICRO TOOLS COMPATIBLE TO THE MINI-CYSTO-RESECTOSCOPE

Through the outer sheath in combination with the working sheath, tools for cystoscopy can be applied:

▶ 400 mm flexible instruments (5 Fr. working channels)



▶ Flexible monopolar and semi-flexible bipolar HF electrodes, 5 Fr.

Monopolar flexible HF electrodes



Bipolar semi-rigid HF electrodes



See chapter Cystoscopy for more details on the micro tools, as well as for cables used with HF electrodes used in cystoscopy.

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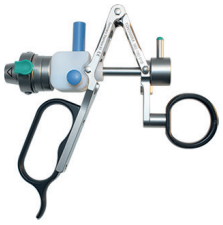
MINI-CYSTO-RESECTOSCOPY SYSTEM FOR Ø 2.9 mm TELESCOPES

- Bipolar working elements
- Reusable electrodes for use with bipolar current and conductive solution (NaCl 0.9%)
- SALINÆ disposable electrodes for use with bipolar current and conductive solution (NaCl 0.9%)

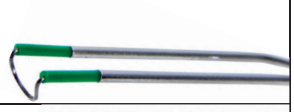
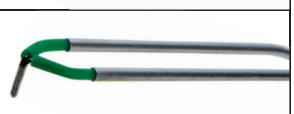
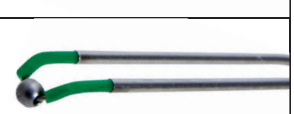
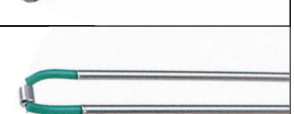
17.5/18.5 Fr.

BIPOLAR WORKING ELEMENTS; CLOSED HANDLE

- For use with electrodes in bipolar current mode and conductive solution (physiologic saline solution, NaCl 0.9 %)

Description	Art. No.
WORKING ELEMENT; active 	582-180-01B
WORKING ELEMENT; passive 	582-180-00B
SAFETY DISTANCE HOLDER for bipolar working element 582-180-01B; 582-180-00B (1.1 mm width); 10 pc./unit 	582-150-02GUB

BIPOLAR HF RESECTOSCOPY ELECTRODES

Description	Colour code	Reusable	SALINÆ Single use electrodes*	
HF LOOP ELECTRODE angled 30°	green	582-180-40B	582-180-40B-S	
HF LOOP ELECTRODE straight	green	582-180-41B	582-180-41B-S	
HF KNIFE ELECTRODE	green	582-180-42B	582-180-42B-S	
HF BALL ELECTRODE Ø 2 mm	green	582-180-43B	582-180-43B-S	
HF ROLLER ELECTRODE Ø 2 mm	green	582-180-44B	–	

* sterile, single packaged; 5 pcs./box

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HF-CONNECTION CABLES; BIPOLAR



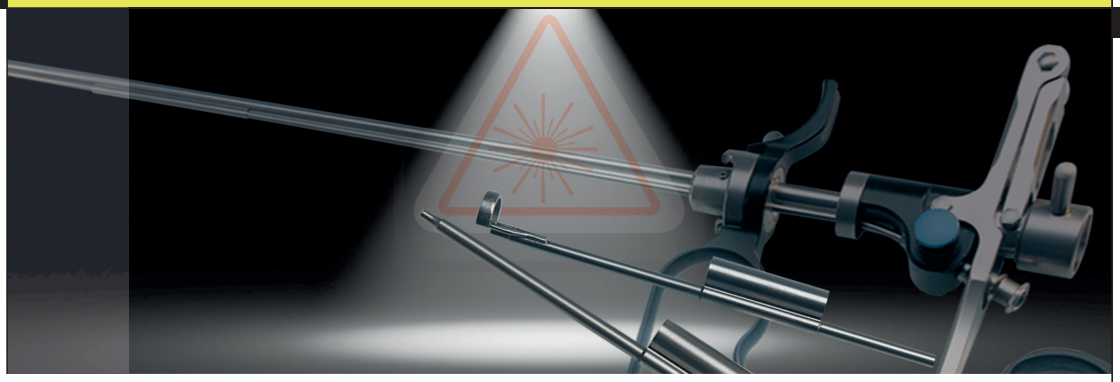
HF CONNECTION CABLES; BIPOLAR
▶ to connect working element to HF generator; bipolar mode for resectoscopy

Available for following units:	3.0 m	
Erbe mod. ICC/ACC, Storz	287-200-30BR	(3.0 m)
Berchthold/ Martin mod. Maxium	287-205-30BR	(3.0 m)
TONTARRA mod. PWT-400; International Models; 2-pins	287-215-30BR	(3.0 m)
Erbe mod. VIO 300D and VIO3 with multi-cintact connector; Karl Storz mod. Autocon II 400	287-220-30BR	(4.0 m)
Emed-HF mod. Spectrum	287-225-30BR	(4.5 m)
Bowa mod. ARC 350 & 400	287-230-30BR	(4.5 m)

For further information and pictures see the overview of cables at the end of the catalogue.

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INSTRUMENTS FOR LASER THERAPY

Laser-Cystoscopy ◀ 23 Fr.

Laser-Resectoscopy ◀ 24/26 Fr.
◀ 2/28.5 Fr.
◀ 19/22 Fr.

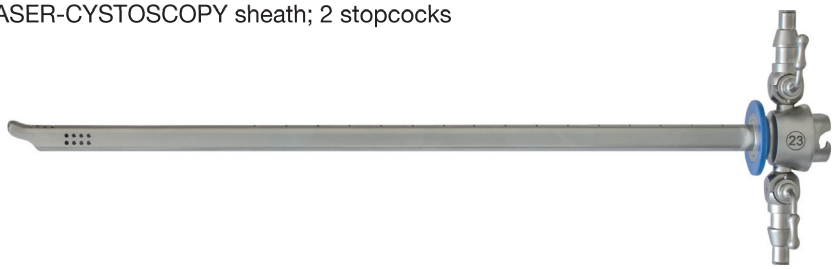
Laser-Urethrotomy ◀ 21 Fr.

LASER-CYSTOSCOPY

▶ System for Ø 4.0 mm telescopes

■ 23.5 Fr.

LASER-CYSTOSCOPY ▶ 23 Fr.

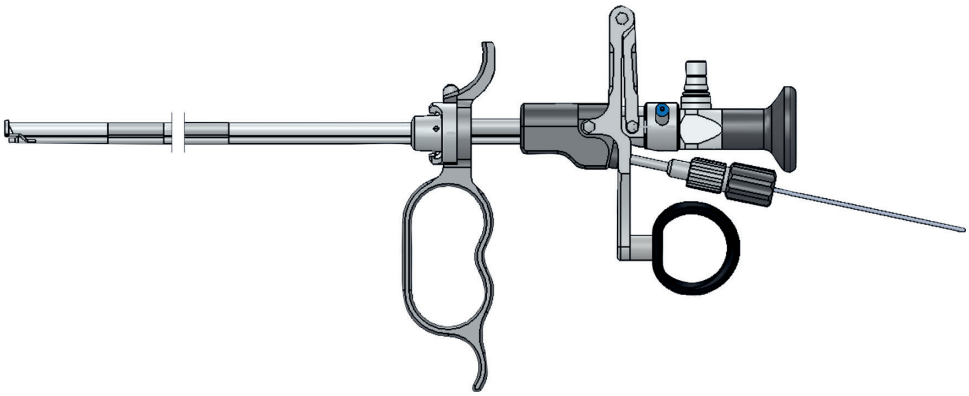
Description	Art. No.	Information
LASER-CYSTOSCOPY sheath; 2 stopcocks 	630-045-23	LL
STANDARD OBTURATOR ⇨ 23 Fr. 	630-045-30	LL
VISUAL OBTURATOR ⇨ 23 Fr. 	630-045-35	12° 601-104-30HD 601-104-30HD2 (601-104-12HD) (601-104-12HD2) LL
TELESCOPE BRIDGE; 1 instrument channel 8 Fr. ⇨ 23 Fr. 	630-045-40	

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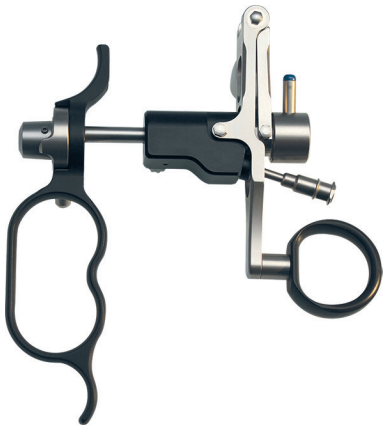
LASER-RESECTOSCOPY

▶ System for Ø 4.0 mm telescopes / for exchangeable laser guide tubes

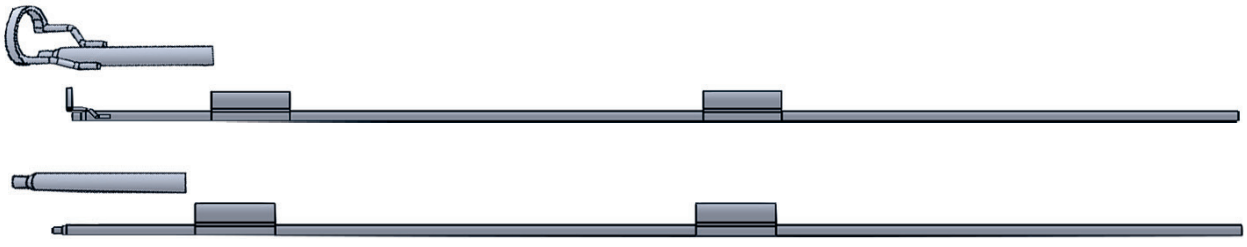
24/26 Fr.
27/28.5 Fr.



LASER-WORKING ELEMENT ▶ for exchangeable laser guide tubes

Description	Art. No.	Information
LASER-WORKING ELEMENT passive 	630-048-00	recommended telescope: 601-104-30HD 601-104-30HD2

▶ to adapt with resectoscopy continuous flow sheaths



EXCHANGEABLE LASER GUIDE TUBES

Diameter	Art. No. GUIDE TUBE 	Art. No. GUIDE TUBE with retractor 
Ø 0.8 mm	630-048-08	630-048-58
Ø 1.0 mm	630-048-10	630-048-60
Ø 1.2 mm	630-048-12	630-048-62
Ø 1.4 mm	630-048-14	630-048-64

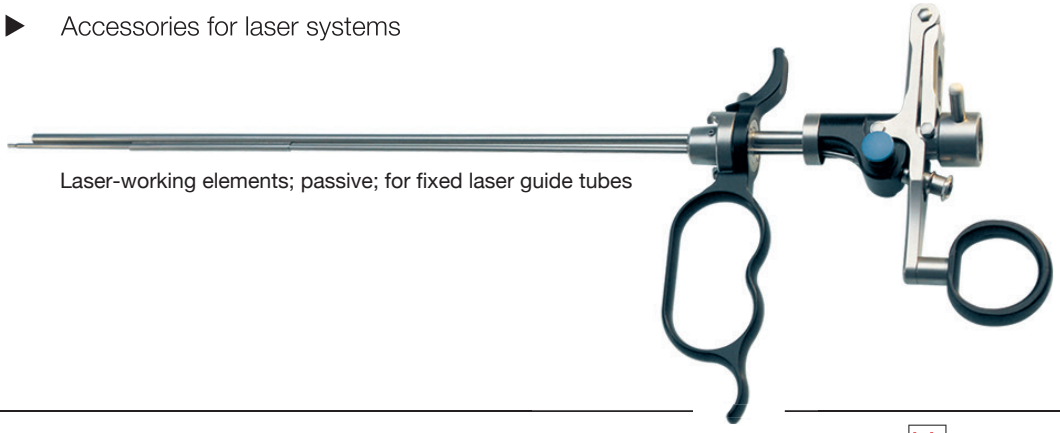
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LASER-RESECTOSCOPY & URETHROTOMY

- Working elements for fixed laser guide tubes for Ø 4.0 & Ø 2.9 mm telescopes
- Accessories for laser systems

Resectoscopy
- 24/26 Fr.
- 27/28.5 Fr.
- 19/22 Fr

Urethrotomy
- 21 Fr.



Laser-working elements; passive; for fixed laser guide tubes

LASER-WORKING ELEMENTS PASSIVE

▶ fibers Ø 0.8 mm & Ø 1.2 mm LL

Description	Compatibility	Art. No.	
LASER-WORKING ELEMENT passive ▶ with LuerLock connectors ▶ compatible to Tuohy Borst adapter and Fiber intakes	Telescopes Size	for fibres Ø 1.2 mm	for fibres Ø 0.8 mm
	Ø 4.0 mm telescopes*	630-047-12	630-047-08
	Ø 2.9 mm telescopes**	630-046-12	630-046-08

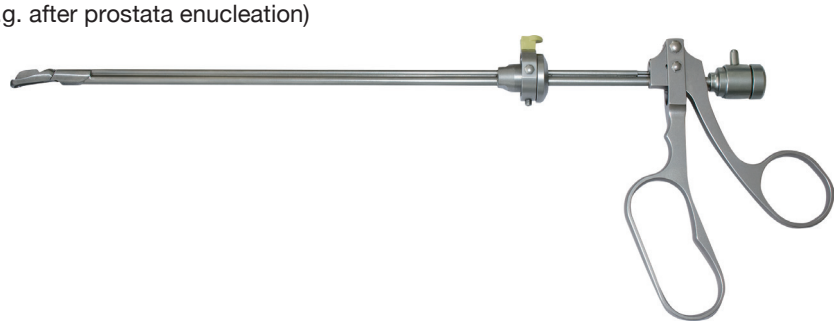
* To use with continuous flow sheaths 24/26 Fr. and 27/28.5 Fr. and urethrotome sheath 21 Fr. (Art. No. 630-400-21)
** To use with continuous flow sheaths 19/22 Fr.

ACCESSORIES FOR LASER-WORKING ELEMENTS

		
FIBER INTAKE (short version) ▶ Adapter for laser probes	FIBER INTAKE (long version) ▶ Adapter for laser probes	TUOHY BORST ADAPTER ▶ with LuerLock connection (stainless steel) and silicone seal ▶ effectively helps to eliminate the backflow of fluid
630-047-25	630-047-26	630-047-30
Compatible to Laser working elements for fixed laser guide tubes (above) and exchangeable laser guided tubes (previous page)		Compatible to: 630-046-08, 630-046-12, 630-047-08, 630-047-12

PUNCH

▶ for 24/26 Fr. outer resectoscope sheath; Art.No. 630-204-06

Description	Art. No.	Information
PUNCH to reduce denaturated tissue after laser treatment (e.g. after prostata enucleation) 	630-050-05	recommended telescope: 601-104-30HD 601-104-30HD2 (601-104-12HD) (601-104-12HD2)

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URETHROTOMY

◀ 21 Fr.

◀ 15.5 Fr.

URETHROTOMY

▶ Schematic overview

Supplementary Sheath
Continuous Flow
21 Fr.

Supplementary Sheath
lateral open
21 Fr.

Urethrotome Sheaths
Ø 4.0 mm / 21 Fr.
Ø 2.9 mm / 15.5 Fr.

Visual Obturator
0°
21 Fr.

Obturator
21 Fr. & 15.5 Fr.

Compatible:
LASER WORKING ELEMENTS
for Ø 4 mm telescopes
for Ø 2.9 mm telescopes

Telescope Bridges
Ø 4.0 mm / 17-25 Fr.
Ø 2.9 mm / 15.5 Fr.
- without channel for diagnostics
- with 1 instrument channel 5 Fr.
- with 2 instrument channels 5 Fr.
0° 12° 30°

Working Elements, passive
- Hybrid (for mono- or bipolar use)
- or monopolar use only

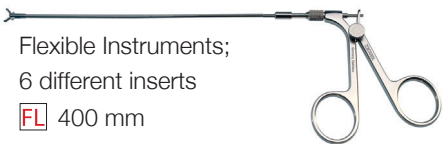
Compatible: RESECTOSCOPY SYSTEMS
24/26 Fr. & 27/28.5 Fr.
19/22 Fr.

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Systems and components for Ø 4.0 mm telescopes 21 Fr.
Systems and components for Ø 2.9 mm telescopes 15.5 Fr.

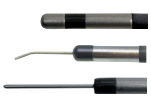
Flexible Instruments;
6 different inserts
FL 400 mm
(Also for use in Cysto-Urethroscopy)



HF Flexible Electrodes
monopolar
Sizes 3-7 Fr.



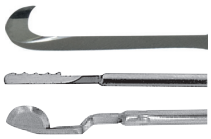
HF Semi-Flexible
Electrodes bipolar
Sizes 3-7 Fr.



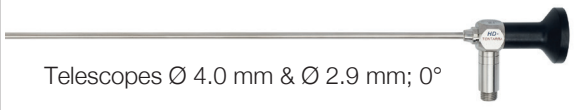
HF Generator



Stricture Knives



Telescopes Ø 4.0 mm & Ø 2.9 mm; 0°



HF Connection cables (3 types):

monopolar
to connect HF generator:
· to working element
· to flexible monopolar HF electrodes for cystoscopy

bipolar
to connect working element to HF generator

to connect semi-flexible bipolar HF electrodes for cystoscopy to HF generator

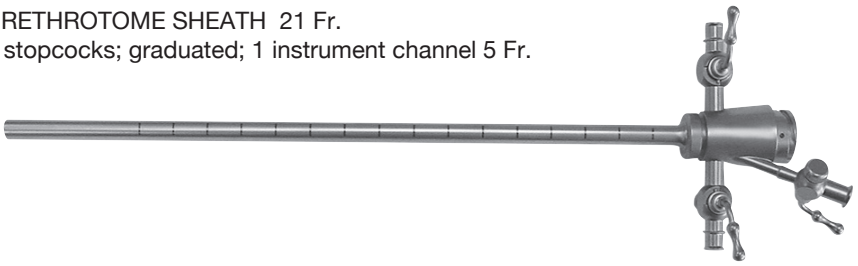
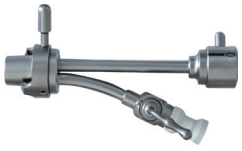
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URETHROTOME SYSTEM

▶ Visual Urethrotome system for Ø 4.0 mm telescopes

21 Fr.

VISUAL URETHROTOME SYSTEM ▶ 21 Fr. for Ø 4.0 mm telescopes

Description	Art. No.	Information
URETHROTOME SHEATH 21 Fr. 2 stopcocks; graduated; 1 instrument channel 5 Fr. 	630-400-21	
SUPPLEMENTARY SHEATH lateral open 21 Fr. 	630-400-30	
SUPPLEMENTARY SHEATH for continuous flow 21 Fr. 	630-400-40	
STANDARD OBTURATOR 21 Fr. 	630-400-50	
OBTURATOR with 1 instrument channel 5 Fr. 21 Fr. 	630-400-60	
VISUAL OBTURATOR 21 Fr. 	630-400-65	601-104-00HD 601-104-00HD2
TELESCOPE BRIDGE 1 instrument channel 5 Fr. 	630-400-70	

WORKING ELEMENTS passive for Ø 4 mm telescopes, bipolar and monopolar: see chapter resectoscopy.

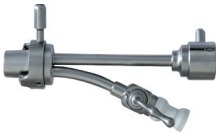
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URETHROTOME SYSTEM

- Visual Urethrotome system 15.5 Fr. for Ø 2.9 mm telescopes
- Stricture Knives for 21 Fr. and 15.5 Fr. Systems

15.5 Fr.
21 Fr.

VISUAL URETHROTOME SYSTEM ▶ 15.5 Fr. for Ø 2.9 mm telescopes

Description	Art. No.	Information
URETHROTOME SHEATH 15.5 Fr. ▶ 2 stopcocks  ▶ graduated ▶ 1 instrument channel 5 Fr.	630-401-15	
STANDARD OBTURATOR 15.5 Fr. 	630-401-26	
TELESCOPE BRIDGE 1 instrument channel 5 Fr. 	630-401-30	0° 601-103-00HD 601-103-00HD2
HYBRID WORKING ELEMENT for 2.9 mm telescopes ▶ passive ▶ for use in monopolar current mode and non-conductive solution (e.g. Sornitol, Mannitol, Glycine) ▶ for use in bipolar current mode and conductive solution (physiologic saline solution, NaCl 0.9 %) 	630-405-60BU	HF connection: upwards

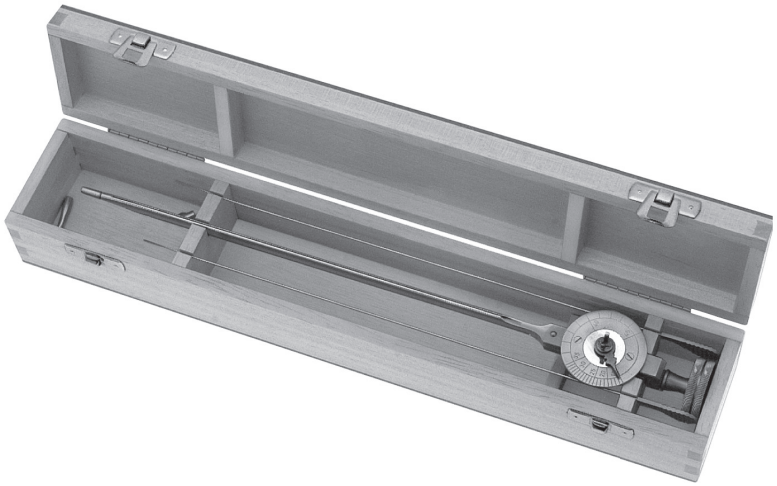
STRICTURE KNIVES ▶ 21 Fr. and 15.5 Fr.

Description	21 Fr.	15.5 Fr.	Non-HF electrodes
STRICTURE KNIFE straight	630-405-05	630-406-01	
STRICTURE KNIFE wave shaped	630-405-10	630-406-06	
STRICTURE KNIFE round shaped	630-405-15	–	
STRICTURE KNIFE sickle shaped	630-405-20	630-406-16	
STRICTURE KNIFE ring shaped	630-405-25	–	

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URETHROTOME OTIS

▶ Urethrotome for adults



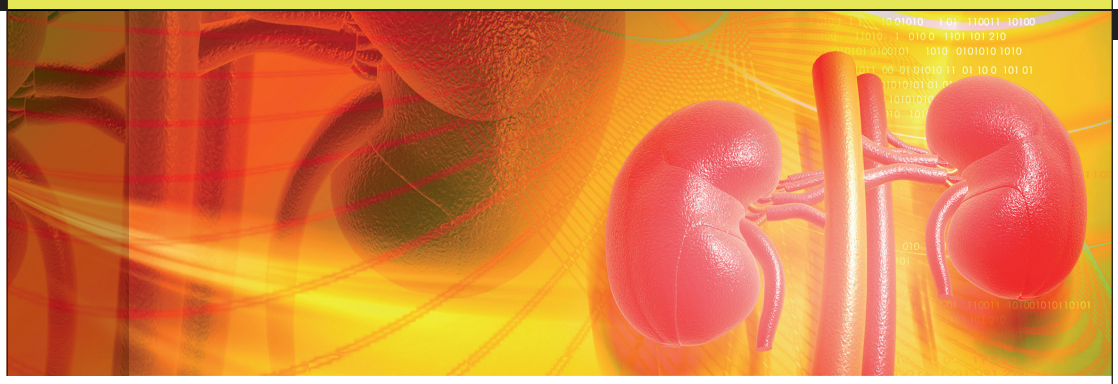
OTIS URETHROTOME for adults

Description	Art. No.	Information
SET includes: ▶ OTIS dilatator (see picture right) ▶ 3 x tips (ball, flat, conical) ▶ 2 x knives	582-720-00	
Knife	582-720-05	

Tip ball	Tip flat	Tip conical
		
582-720-01	582-720-02	582-720-03

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TONTARRA



URETERO-RENOSCOPY

URETERO-RENOSCOPY

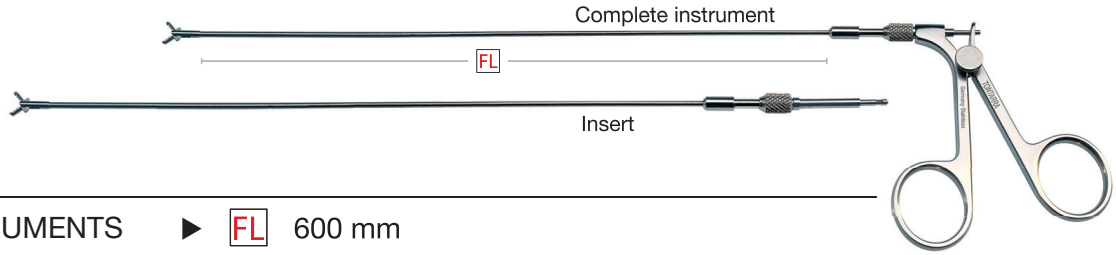
- Uretero-Renoscopes; 30.000 pixel; 2 sizes of working channels (4 Fr. + 5 Fr.)
- Flexible Instruments; FL 600 mm



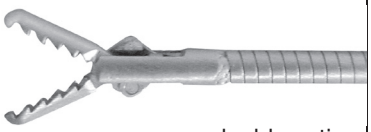
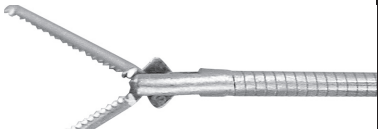
URETERO-RENOSCOPES [autoclavable]

Description			Art. No.
URETERO-RENOSCOPE	[1 working channel 5 Fr.]		
	▶ 8.0/9.8 Fr.; 12°	FL 315 mm	601-110-05
	▶ 8.0/9.8 Fr.; 12°	FL 430 mm	601-110-10
URETERO-RENOSCOPE	[1 working channel 4 Fr.]		
	▶ 6.0/7.5 Fr.; 12°	FL 315 mm	601-110-15
	▶ 6.0/7.5 Fr.; 12°	FL 430 mm	601-110-20





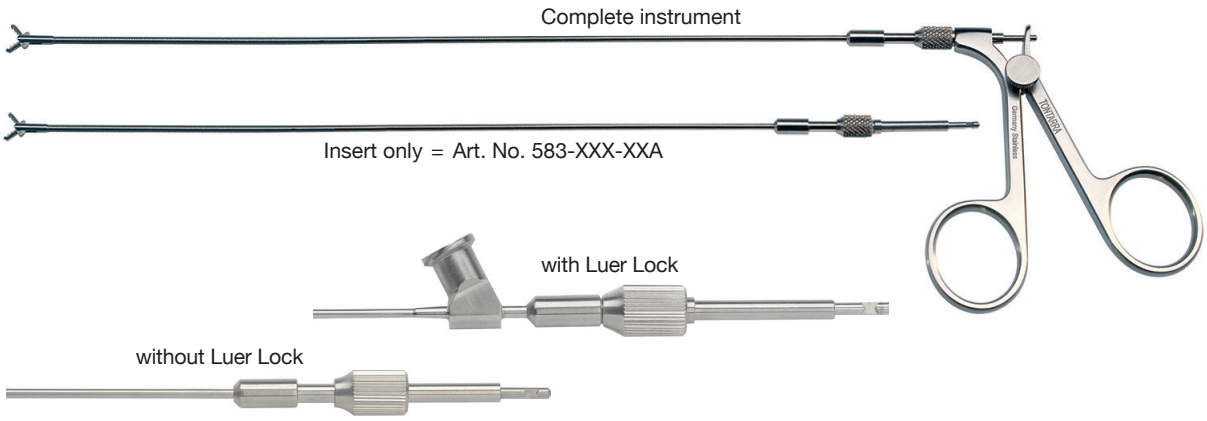
FLEXIBLE INSTRUMENTS ▶ FL 600 mm

Description	5 Fr.	3 Fr.	Information
BIOPSY FORCEPS ▶ flexible; oval; complete	583-310-16	583-310-10	
INSERT only	583-310-16A	583-310-10A	double action
SCISSORS ▶flexible; complete	583-320-16	-	
INSERT only	583-320-16A	-	single action
BIOPSY FORCEPS flexible; oval; serrated	583-350-16	-	
INSERT only	583-350-16A	-	double action
GRASPING FORCEPS ▶ flexible; Alligator jaw	583-360-16	583-360-10	
INSERT only	583-360-16A	583-360-10A	double action
GRASPING FORCEPS ▶ flexible; serrated	583-370-16	583-370-12	
INSERT only	583-370-16A	583-370-12A	double action
HANDLE only (spare part)	583-305-00	for all urologic micro instruments 5/7/9 Fr. with Art. No's. 583-XXX-XX	

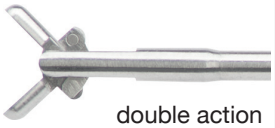
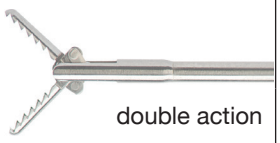
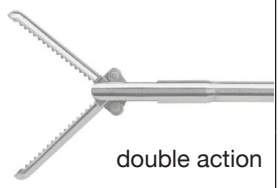
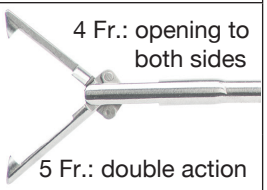
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URETERO-RENOSCOPY

▶ Semi-rigid Instruments; FL 600 mm



SEMI-RIGID INSTRUMENTS ▶ FL 600 mm 4 Fr. & 5 Fr.

Description	Ø 5 Fr.		Ø 4 Fr.		Information
	with LuerLock	Standard	with LuerLock	Standard	
BIOPSY FORCEPS; oval	583-410-16LL	583-410-16	583-410-12LL	583-410-12	
INSERT only	583-410-16LLA	583-410-16A	583-410-12LLA	583-410-12A	double action
ALLIGATOR FORCEPS	583-460-16LL	583-460-16	583-460-12LL	583-460-12	
INSERT only	583-460-16LLA	583-460-16A	583-460-12LLA	583-460-12A	double action
FOREIGN BODY FORCEPS; long jaw part Ø 1.7 mm; spoon serrated	583-472-16LL	583-472-16	583-472-12LL	583-472-12	
INSERT only	583-472-16LLA	583-472-16A	583-472-12LLA	583-472-12A	double action
MOUSE TEETH GRASPING FORCEPS; for grasping of larger stones and fragments	583-480-16LL	583-480-16	*583-480-12LL	*583-480-12	4 Fr.: opening to both sides 
INSERT only	583-480-16LLA	583-480-16A	*583-480-12LLA	*583-480-12A	5 Fr.: double action
MICRO SCISSORS/ URETER SLITTING SHEAR Ø 1.7 mm; upwards cutting	583-490-16LL	583-490-16	-	-	
INSERT only	583-490-16LLA	583-490-16A	-	-	single action
HANDLE only (spare part)	583-305-00		for all urologic micro instruments 5/7/9 Fr. with Art. No's. 583-XXX-XX		

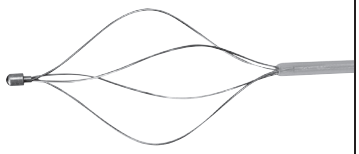
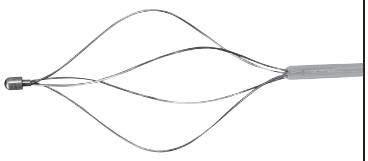
* Rigid; the miniaturization of this particular forceps needs the use of a very thin rigid tube, which has a certain flexibility, but cannot be bended to the same degree as semi-rigid forceps.

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URETERO-RENOSCOPY

▶ Flexible stone baskets

FLEXIBLE STONE BASKETS ▶ FL 900 mm 3 Fr. & 5 Fr.

Description	Art. No.	Information
HANDLE ▶ for 3 Fr. and 5 Fr. stone catcher; ▶ colour code: blue	582-610-02	
STONE CATCHER; 3 Fr. ▶ with 4 strings; ▶ with tubus; ▶ without handle	582-610-03	
STONE CATCHER; 5 Fr. ▶ with 4 strings; ▶ with tubus; ▶ without handle	582-610-05	

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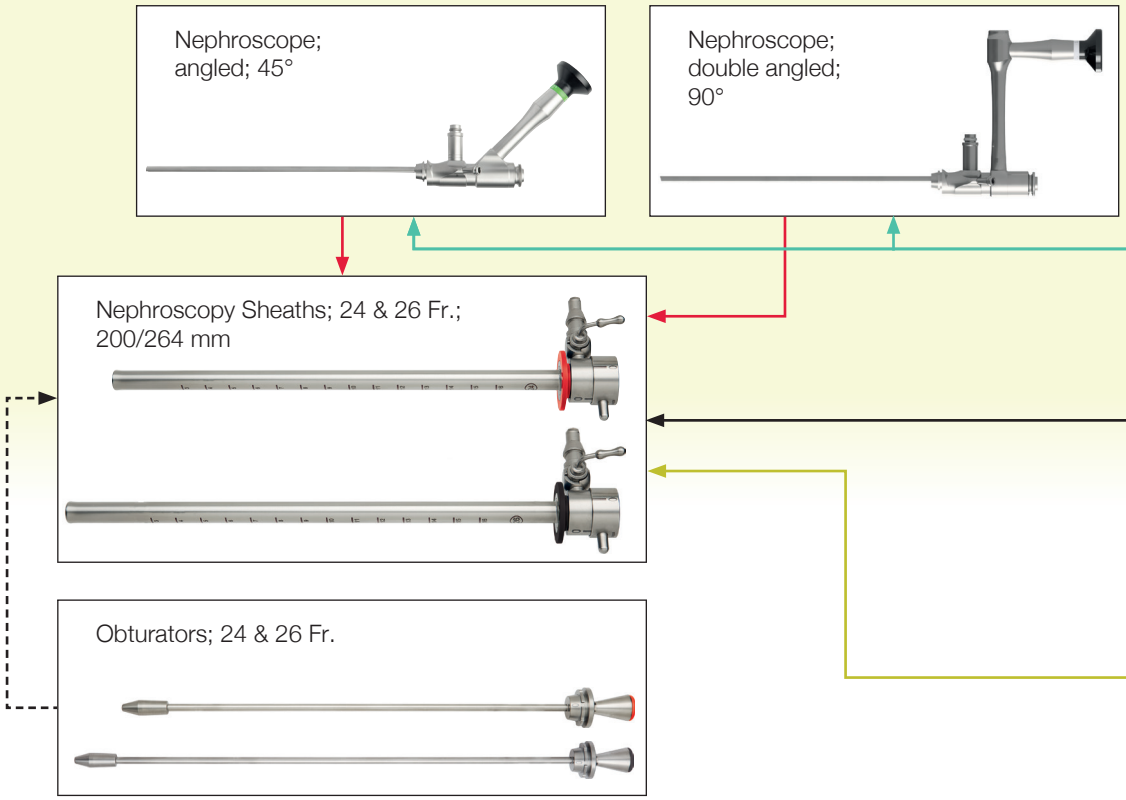


NEPHROSCOPY

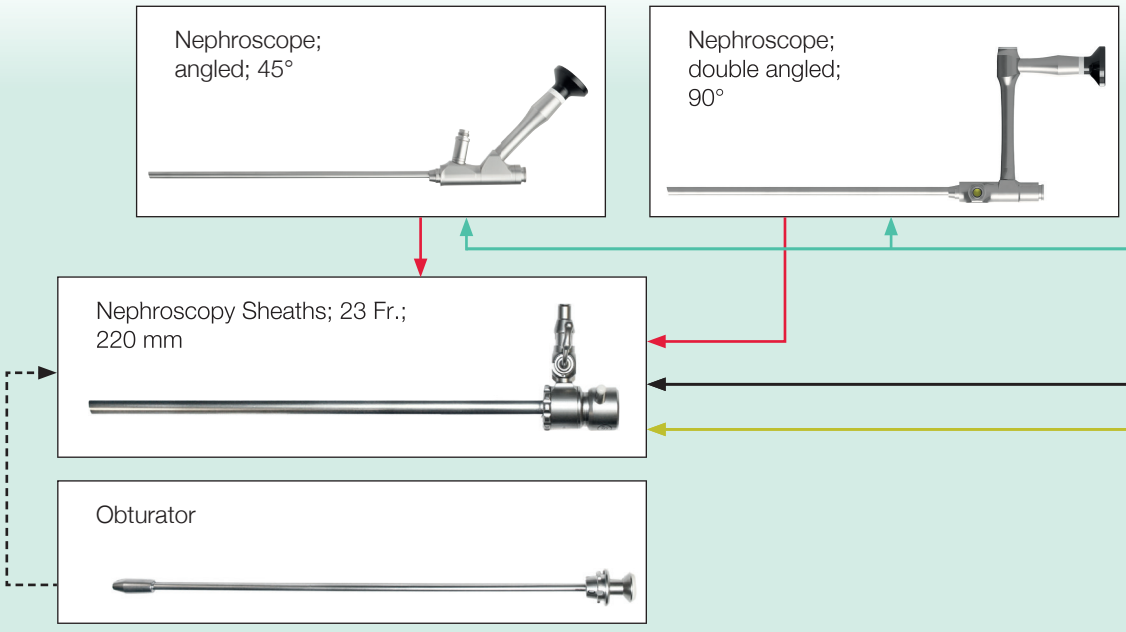
NEPHROSCOPY

▶ Schematic overview

Ø 2.8 mm nephroscopes for 24 Fr. or 26 Fr. nephroscopy sheaths
(FL 200 mm or 264 mm; working channel Ø 5.0 mm)



Ø 1.8 mm compact nephroscopes for 23 Fr. nephroscopy sheath
(FL 220 mm; working channel Ø 4.3 mm)

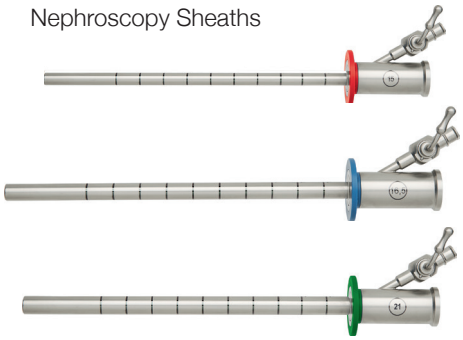


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Systems and components for Ø 2.8 mm telescopes	24 & 26 Fr.
Systems and components for Ø 1.8 mm telescopes	23 Fr.
Mini-Compact nephroscope system	18/19.5/24 Fr.

Mini-Compact nephroscope for 18 Fr./19.5 Fr./24 Fr. nephroscopy sheaths
(FL 220 mm; working channel Ø 2.2 mm)

Nephroscopy Sheaths



15/18 Fr.

16.5/19.5 Fr.

21/24 Fr.

Nephroscope;
angled; 45°



Dilatators for guide wires

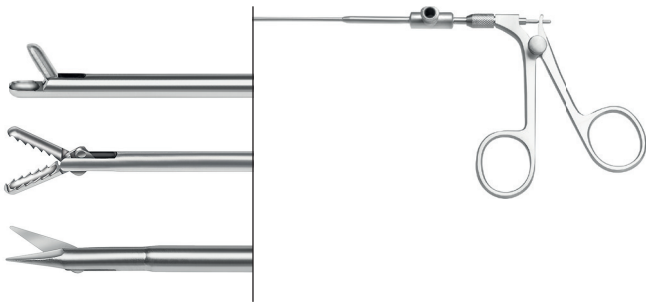


Sealing & Valves

Telescope Bougies/
Dilatation Sleeves



Stone Grasping Forceps & Scissors



Ø 3.0 mm
Ø 3.5 mm

Ø 1.8 mm

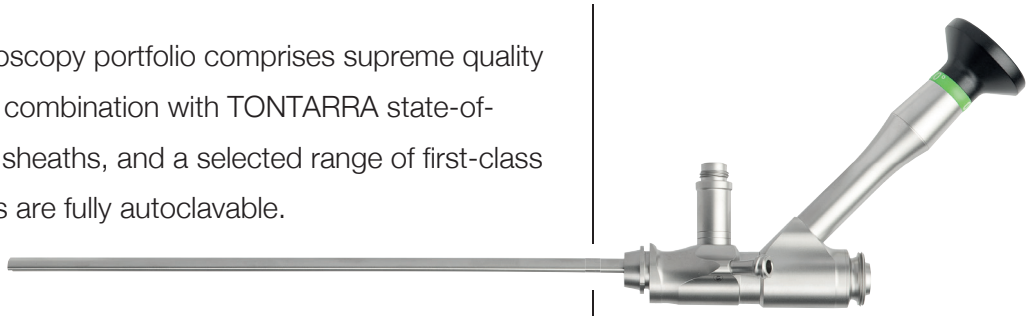
Stone Grasping Forceps with Ring Handle



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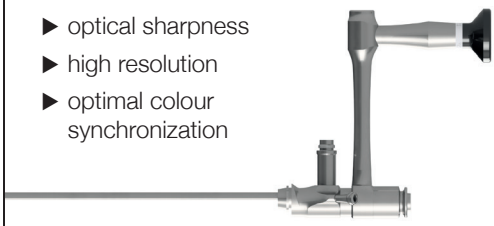
TONTARRA NEPHROSCOPY

TONTARRA´s Nephroscopy portfolio comprises supreme quality HD nephroscopes in combination with TONTARRA state-of-the-art nephroscopy sheaths, and a selected range of first-class accessories. All items are fully autoclavable.



CLASSIC NEPHROSCOPY

- optical sharpness
- high resolution
- optimal colour synchronization

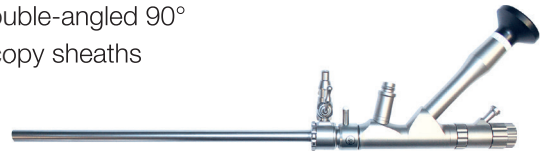


▶ HD Nephroscopes Ø 2.8 mm rod lense system

· Ø 5 mm working channel
· angled; 45° and double-angled 90°
· for 24 Fr. and 26 Fr. nephroscopy sheaths
· FL 200 mm and 264 mm

▶ HD Compact Nephroscopes Ø 1.8 mm rod lense system

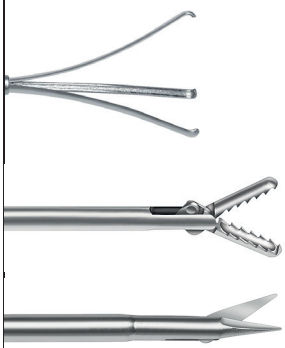
· Ø 5 mm working channel
· angled; 45° and double-angled 90°
· for 23 Fr. nephroscopy sheaths
· FL 220 mm



MICRO INSTRUMENTS

for "classic"and mini-nephroscopy

Stone Grasping Forceps – micro-scissors – stone retrievers

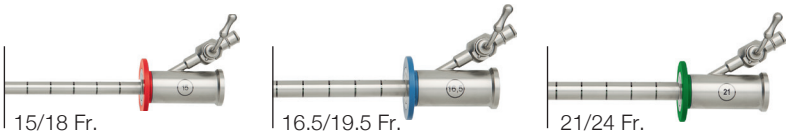


MINI NEPHROSCOPY

▶ HD Mini Compact Nephroscope with 40.000 Pixel image bundle

· Ø 2.2 mm working channel
· angled; 45°
· for mini-nephroscopy continuous flow sheaths:





ACCESSORIES

for "classic" and mini-nephroscopy

▶ Dilatation



▶ Sealing

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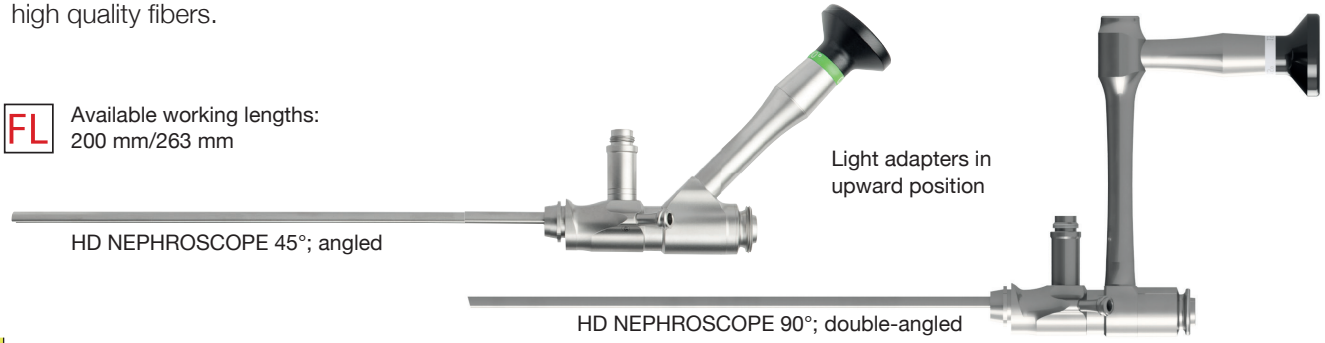
NEPHROSCOPY

▶ HD Nephroscopes for 24/26 Fr. sheaths

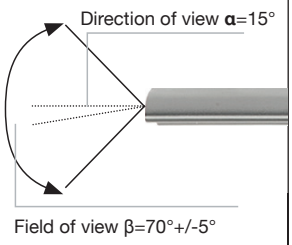
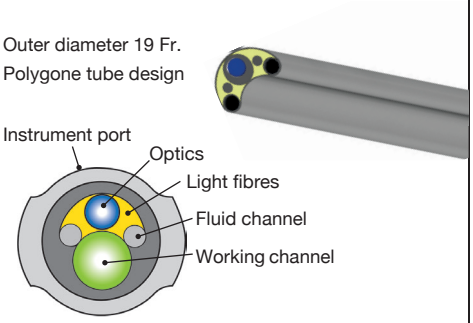
24 Fr.
26 Fr.

TONTARRA's Nephroscopes come with CAD-designed rodlense system and objectives for maximum resolution, optimal sharpness and colorsynchronization, high quality fibers.

FL Available working lengths:
200 mm/263 mm



HD NEPHROSCOPES Ø 2.8 mm ▶ working channel Ø 5 mm 24 Fr. 26 Fr.

Description	Working length	Art. No.	Information
HD NEPHROSCOPE 45° angled	200 mm	601-130-45	
HD NEPHROSCOPE 45° angled	263 mm	601-140-45	
HD NEPHROSCOPE 90° double-angled	200 mm	601-130-90	
FLUSHING VALVE M18 x 1; Ø 5.0 mm with irrigation valve for Nephroscopes 601-130-45, 601-130-90, 601-140-45 and sheaths 24/26 Fr. systems		601-150-04	
DOME VALVE 072; Silicone transparent for compact-nephroscopes 601-135-45 & 601-135-90 and nephroscopes 601-130-45, 601-130-90, 601-140-45; sheaths 18/22 & 24/26 Fr. systems. 10 pc/unit		601-150-01	
BACKUP SEAL 072; Silicone transparent for compact-nephroscopes 601-135-45 & 601-135-90 and nephroscopes 601-130-45, 601-130-90, 601-140-45; sheaths 18/22 & 24/26 Fr. systems. 10 pc/unit		601-150-03	

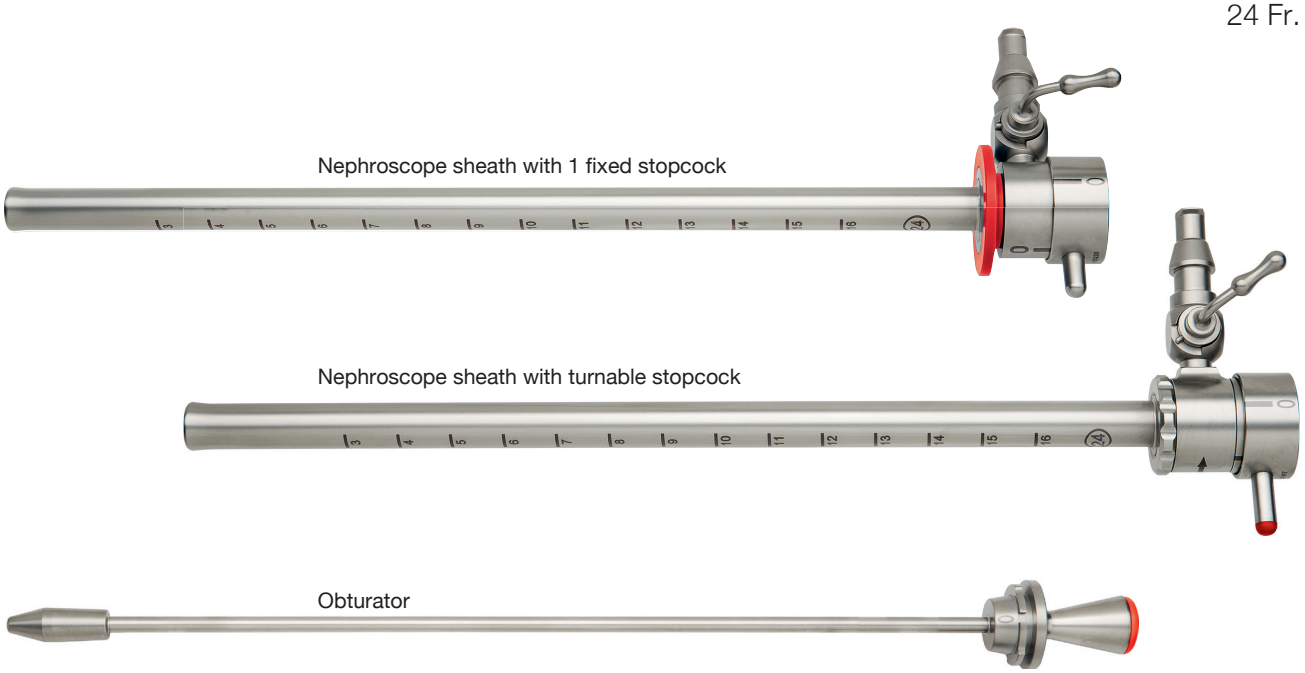
- ▶ ACMI®-Wolf®-Storz® and Olympus® light port adapters & eye piece according to DIN58015
- ▶ Autoclavable
- ▶ Sapphires at the distal and proximal end

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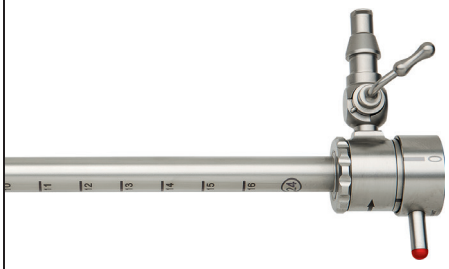
NEPHROSCOPY

▶ Nephroscopy sheaths & obturators 24 Fr.

24 Fr.



NEPHROSCOPY SHEATH SYSTEM; 24 Fr. ▶ 200 / 264 mm

Description	■ 200 mm	□ 264 mm*
NEPHROSCOPE SHEATH 1 x fixed stopcock	 630-420-12	 630-420-32
NEPHROSCOPE SHEATH Turnable stopcock	 630-420-14	 630-420-34
OBTURATOR hollow	 630-420-17	 630-420-37

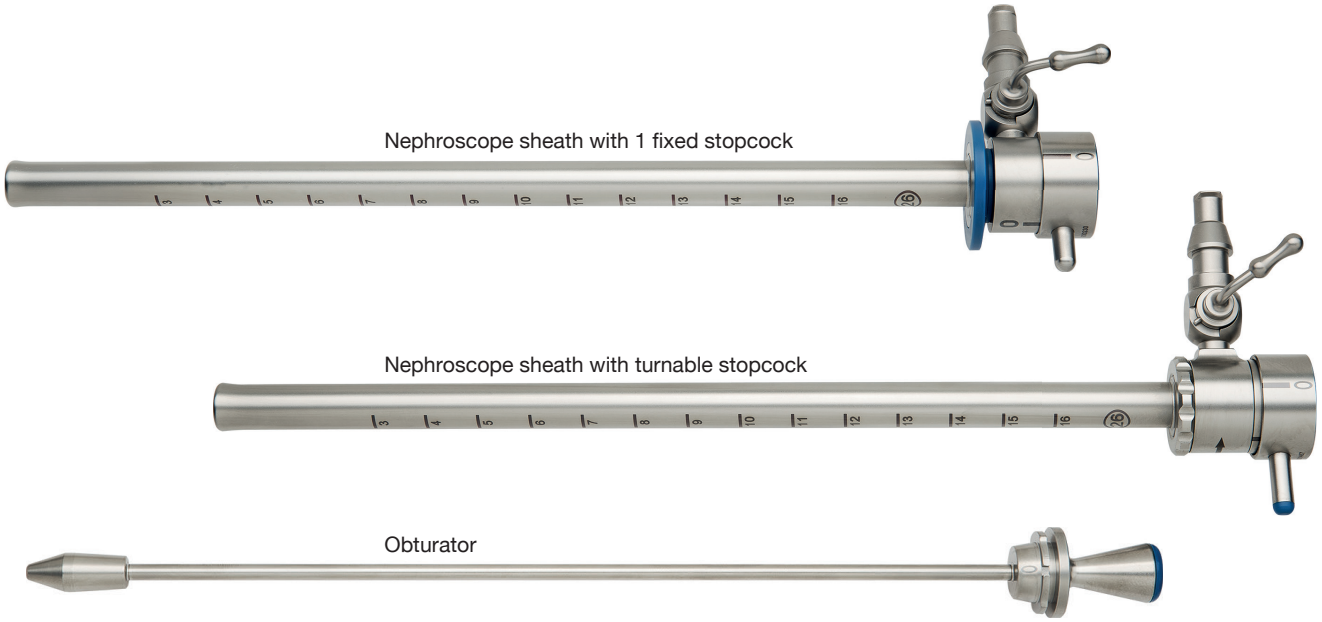
Recommended nephroscopes: 601-130-45, 601-140-45, 601-130-90, 601-104-90
* Compatability to K. Storz nephroscopes with "25 cm length".

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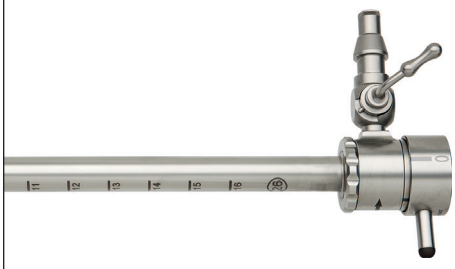
NEPHROSCOPY

▶ Nephroscopy sheaths & obturators 26 Fr.

26 Fr.



NEPHROSCOPY SHEATH SYSTEM; 26 Fr. ▶ 200 / 264 mm

Description	■ 200 mm	■ 264 mm*
NEPHROSCOPE SHEATH 1 x fixed stopcock	 630-420-22	 630-420-42
NEPHROSCOPE SHEATH Turnable stopcock	 630-420-24	 630-420-44
OBTURATOR hollow	 630-420-27	 630-420-47

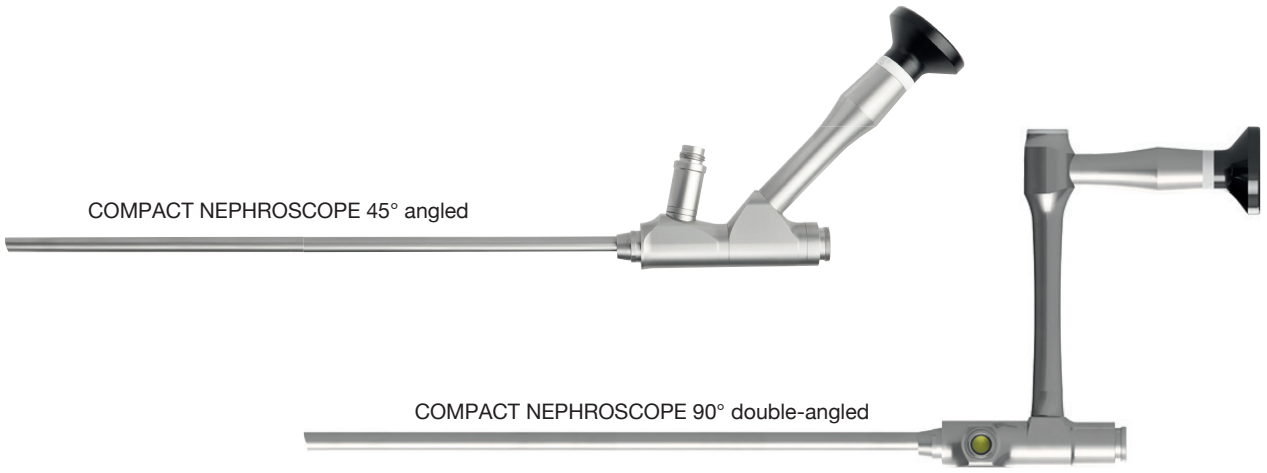
Recommended nephroscopes: 601-130-45, 601-140-45, 601-130-90, 601-104-90
* Compatability to K. Storz nephroscopes with "25 cm length".

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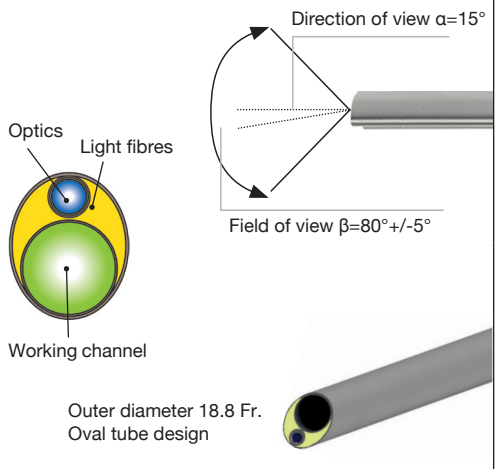
NEPHROSCOPY

▶ HD Nephroscopes for 23 Fr. sheaths

23 Fr.



COMPACT NEPHROSCOPES Ø 1.8 mm ▶ working channel Ø 4.3 mm FL 220 mm 23 Fr.

Description	Art. No.	Information
COMPACT NEPHROSCOPE 45° angled	601-135-45	
COMPACT NEPHROSCOPE 90° double-angled	601-135-90	
FLUSHING VALVE M18 x 1 Ø 5.0 mm with irrigation valve for Nephroscopes 601-130-45, 601-130-90, 601-140-45 and sheaths 24/26 Fr. systems	601-150-04	
DOME VALVE 072; Silicone transparent for compact-nephroscopes 601-135-45 & 601-135-90 and nephroscopes 601-130-45, 601-130-90, 601-140-45; sheaths 18/22 & 24/26 Fr. systems. 10 pc/unit	601-150-01	
BACKUP SEAL 072; Silicone transparent for compact-nephroscopes 601-135-45 & 601-135-90 and nephroscopes 601-130-45, 601-130-90, 601-140-45; sheaths 18/22 & 24/26 Fr. systems. 10 pc/unit	601-150-03	

- ▶ ACMI®-Wolf®-Storz® and Olympus® light port adapters & eye piece according to DIN58015
- ▶ Autoclavable
- ▶ Sapphires at the distal and proximal end

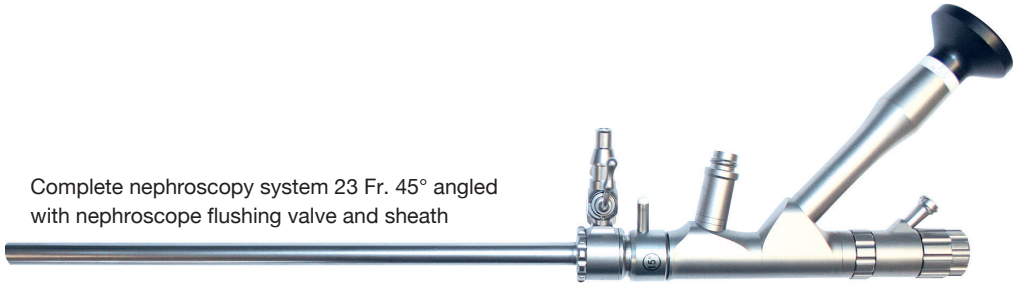
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NEPHROSCOPY

- Nephroscopy sheaths & obturators 23 Fr.
- Telescope Bougies for 23 Fr. / 24 Fr. / 26 Fr. Systems

23 Fr.

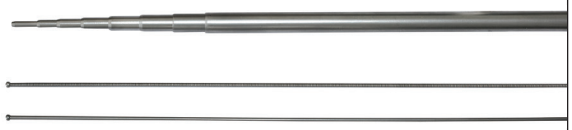
Complete nephroscopy system 23 Fr. 45° angled
with nephroscope flushing valve and sheath



NEPHROSCOPY SHEATH & OBTURATOR ▶ for 23 Fr. FL 220 mm

Description	Art. No.	
NEPHROSCOPY SHEATH 23 Fr. 	630-423-12	for Compact-Nephroscopes 601-135-45 and 601-135-90; 15°
HOLLOW OBTURATOR 	630-423-17	for nephroscopy sheath; 23 Fr. Art. No. 630-423-12; 15°; drilling Ø 1.4 mm; fits Compact-Nephroscopes 601-135-45 and 601-135-90

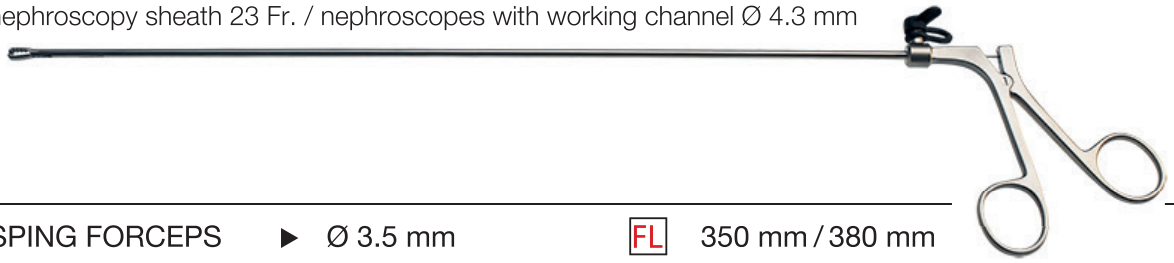
TELESCOPE BOUGIES ▶ for 26 Fr./24 Fr./23 Fr. nephroscopy systems

Description	Art. No.	Information	
DILATATION SET Content: 1 x guide wire rigid + 1 x flexible, 1 x dilatation sleeve Ø 9, 12, 15, 18, 21, 24 Fr.	630-430-00		
The single sleeves are also available as spare parts:			
Dilatation sleeve 9 Fr.	630-430-09	Dilatation sleeve 18 Fr.	630-430-18
Dilatation sleeve 12 Fr.	630-430-12	Dilatation sleeve 21 Fr.	630-430-21
Dilatation sleeve 15 Fr.	630-430-15	Dilatation sleeve 24 Fr.	630-430-24
DILATATION SLEEVE 27 Fr.	630-430-27		
DILATATION SLEEVE 30 Fr.	630-430-30		
HOLLOW GUIDE ROD rigid; for dilatation of the nephrostomy tract	630-432-05		
HOLLOW GUIDE ROD flexible; for dilatation of the nephrostomy tract	630-432-10		

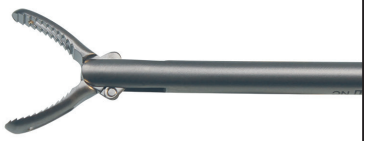
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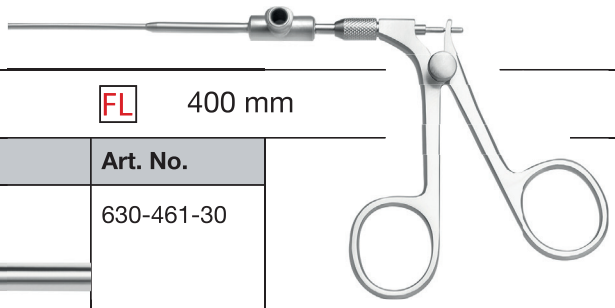
NEPHROSCOPY

- Micro tools for percutaneous nephroscopy systems
  - · For nephroscopy sheaths 24 & 26 Fr. / nephroscopes with working channel Ø 5.0 mm
  - · For nephroscopy sheath 23 Fr. / nephroscopes with working channel Ø 4.3 mm



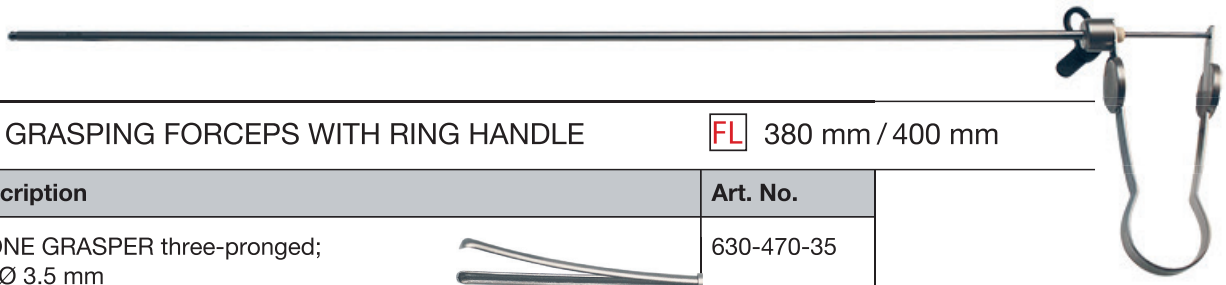
STONE GRASPING FORCEPS ▶ Ø 3.5 mm FL 350 mm / 380 mm

Description	Art. No. 350 mm	Art. No. 380 mm	
EXCISION FORCEPS 	630-450-35	630-450-38	with ring handle
STONE GRASPING FORCEPS with fenestrated jaw parts 	630-451-35	630-451-38	
STONE GRASPING FORCEPS for removal of larger stones 	630-452-35	630-452-38	

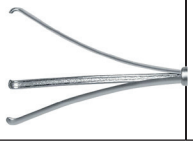


MICRO SCISSORS ▶ Ø 3.0 mm FL 400 mm

Description	Art. No.
MICRO-SCISSORS; pointed; straight; single action 	630-461-30



STONE GRASPING FORCEPS WITH RING HANDLE FL 380 mm / 400 mm

Description	Art. No.	
STONE GRASPER three-pronged; ▶ Ø 3.5 mm ▶ FL 380 mm 	630-470-35	U-spring grip; self-closing
STONE GRASPER three-pronged; fine; ▶ Ø 3.0 mm ▶ FL 400 mm 	630-471-30	

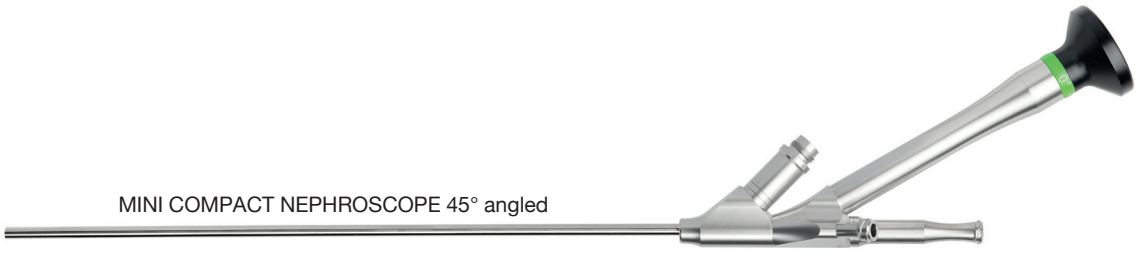
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MINI NEPHROSCOPY

▶ HD Mini Compact Nephroscope

18 Fr.
19.5 Fr.
24 Fr.

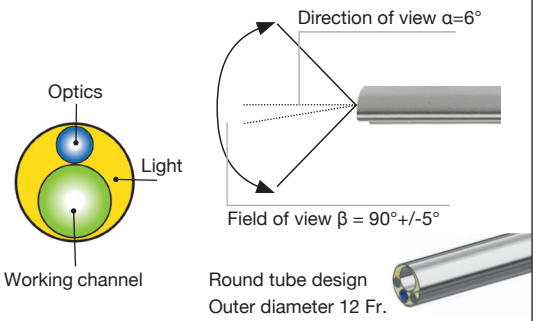
The image transmission by the optical fiber bundle of 40.000 pixel results in brilliant high resolution quality and detailed contrast. With CAD-designed objective.



MINI COMPACT NEPHROSCOPE

▶ working channel Ø 2.2 mm

18 Fr./19.5 Fr./24 Fr.
FL 220 mm

Description	Art. No.	Information
NEPHROSCOPE 45° angled; working channel Ø 2.2 mm	601-145-00	
STOP COCK Ø 3.5 mm; black; for mini-nephroscope 601-145-00	601-150-06	
SPRING CAP for mini-nephroscope 601-145-00	601-150-07	
DOME VALVE 052 for mini-nephroscope 601-145-00; Silicone transparent; Material: ML151VMQ; 10 pcs./unit	601-160-02	
BACKUP SEAL 052 for mini-nephroscope 601-145-00; Silicone transparent; Material: ML151VMQ; 10 pcs./unit	601-160-03	

▶ ACMI®-Wolf®-Storz® and Olympus® light port adapters & eye piece according to DIN58015

▶ Autoclavable

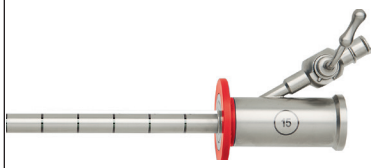
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MINI NEPHROSCOPY

- Nephroscopy Sheaths
- Dilators

15/18.5 Fr.
16.5/19.5 Fr.
21/24 Fr.

NEPHROSCOPY SHEATHS

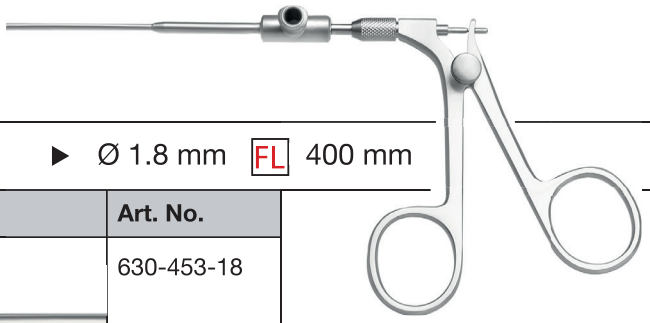
Description	Size	Colour code	Art. No.	
NEPHROSCOPY SHEATH	15/18 Fr.	red	630-435-15	
NEPHROSCOPY SHEATH	16.5/19,5 Fr.	blue	630-435-20	
NEPHROSCOPY SHEATH	21/24 Fr.	green	630-435-25	
SEALING APPLICATOR; 2 parts in connection with sheath and plunger			630-435-30	
DILATATOR for guide wire; for 15/18 Fr. sheath; Length 300 mm			630-435-35	
DILATATOR - 2 CHANLS for introduction of guide wire; for 16.5/19.5 Fr. sheath; Length 300 mm			630-435-40	
DILATATOR - 2 CHANNELS for introduction of guide wire; for 21/24 Fr. sheath; Length 300 mm			630-435-45	

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MINI-NEPHROSCOPY

▶ Micro tools for percutaneous nephroscopes

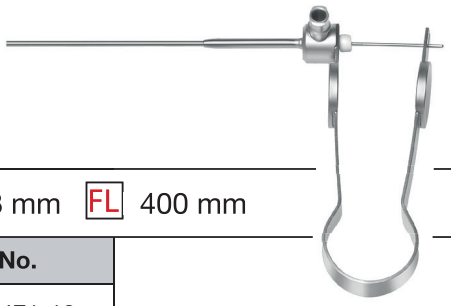
STONE GRASPING FORCEPS & MICRO SCISSORS ▶ Ø 1.8 mm FL 400 mm



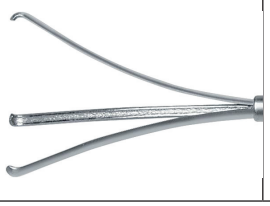
with ring handle

Description	Art. No.
GRASPING FORCEPS cup; serrated; Ø 1.8 mm; FL 400 mm; with irrigation adapter 	630-453-18
ALLIGATOR FORCEPS Ø 1.8 mm; FL 400 mm; with irrigation adapter 	630-454-18
PE FORCEPS cup; sharp; single action; Ø 1.8 mm; FL 400 mm; with irrigation adapter 	630-455-18
SCISSORS pointed tips; single action; Ø 1.6 mm; FL 400 mm; with irrigation adapter 	630-461-16

STONE GRASPING FORCEPS WITH RING HANDLE ▶ Ø 1.8 mm FL 400 mm



U-spring grip; self-closing

Description	Art. No.
3 PRONGS RETRIEVER semi-rigid; Ø 1.8 mm; FL 400 mm; with firmly welded spring grip 	630-471-18

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PEDIATRIC UROLOGY

- 13 Fr.
- 11 Fr.
- 9/9.5 Fr.
- 7.5 Fr.

PEDIATRIC UROLOGY

▶ Schematic overview

RESECTOSCOPY

Resectoscopy Sheaths
13 Fr. / 11 Fr. / 9 Fr.



Obturators



HF Electrodes
13 Fr. / 11 Fr. / 9 Fr.



Working Elements
- 13 Fr.
- 11 Fr.
- 9 Fr.

Telescope Bridge
- 13 Fr.
- 11 Fr.
- 9 Fr.

3 Fr. Button Electrode



CYSTOSCOPY

Cysto-Urethroscope Sheaths
13 Fr. / 11 Fr. / 9.5 Fr.



Obturators



Telescope Bridge
13 Fr. system only

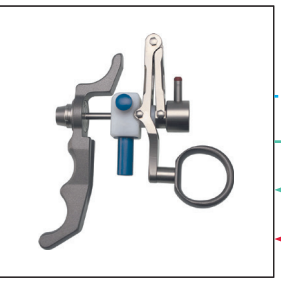
Albarran Deflector
13 Fr. system only

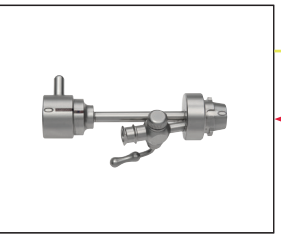
3 Fr. Biopsy & Grasping Forceps



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Systems and components for Ø 2.7 mm telescopes
Systems and components for Ø 2.0 mm telescopes
Systems and components for Ø 1.9 mm telescopes





URETHROTOMY

Urethrotome Sheaths
13 Fr. / 11 Fr.



optional

Stricture Knives
13 Fr. / 11 Fr.



Obturators



HF Generator

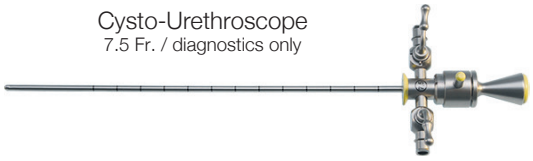


Telescopes



Ø 2.7 mm / Ø 2.0 mm / Ø 1.9 mm
0°; 30°

Cysto-Urethroscope
7.5 Fr. / diagnostics only



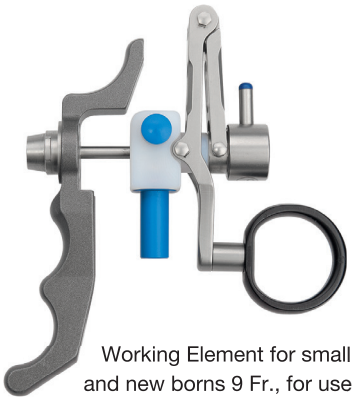
HF Connection cables:

monopolar
- - - - - - - - to connect HF Generator to:
- Working elements
- Monopolar 3 Fr. HF Button electrode

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PEDIATRIC UROLOGY

TONTARRA´s extensive program for pediatric urology reflects our exceptional manufacturing skills, which are required when wanting to create optimally functioning miniaturized endoscopic instruments.



Working Element for small children and new borns 9 Fr., for use in resectoscopy and urethrotomy.

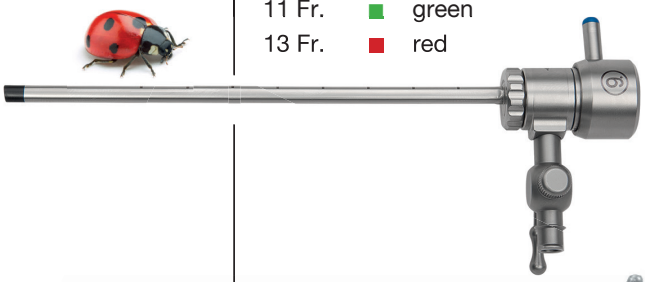
TONTARRA´S PORTFOLIO INCLUDES

7.5 Fr. ■ yellow
9/9.5 Fr. ■ blue
11 Fr. ■ green
13 Fr. ■ red

FOR Ø 2.7 mm TELESCOPES:

▶ SYSTEMS FOR 13 Fr. (■)

- Cysto-Urethroscopy
- Resectoscopy
- Urethrotomy

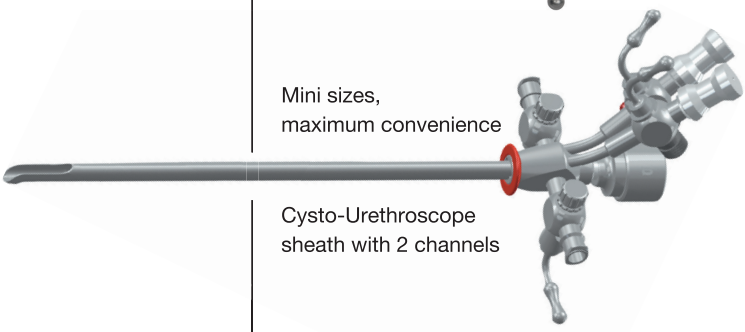


FOR Ø 2.0 mm TELESCOPES:

▶ SYSTEMS FOR (■ I ■)

- Cysto-Urethroscopy (11 & 9.5 Fr.)
- Resectoscopy (11 Fr.)
- Urethrotomy (11 Fr.)

Mini sizes,
maximum convenience



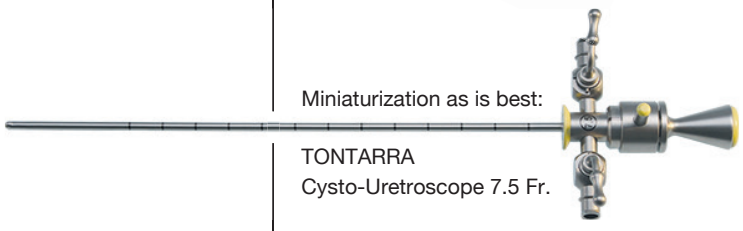
Cysto-Urethroscope
sheath with 2 channels

FOR Ø 1.9 mm TELESCOPES:

▶ SYSTEMS FOR (■ I ■)

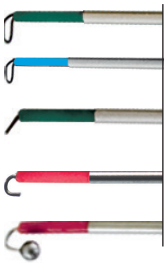
- Resectoscopy (9 Fr.)
- Cysto-Urethroscopy (7.5 Fr.)

Miniaturization as is best:



TONTARRA
Cysto-Uretroscope 7.5 Fr.

▶ RANGE OF HF ELECTRODES
for all TONTARRA pediatric resectoscopy systems (■ I ■ I ■)



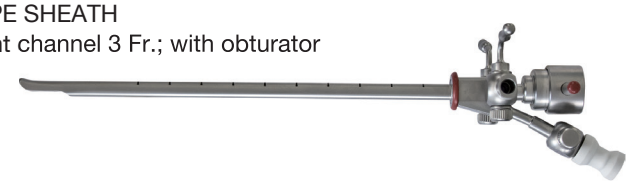
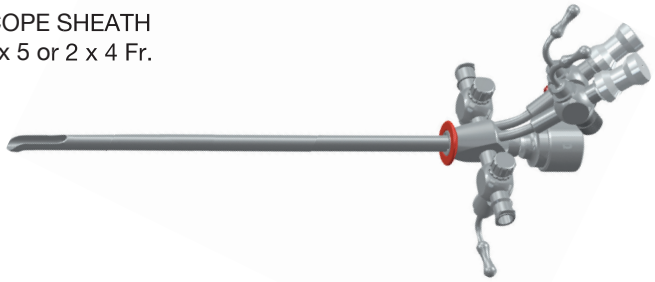
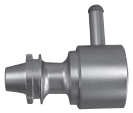
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PEDIATRIC CYSTO-URETHROSCOPY

▶ 13 Fr. for Ø 2.7 mm/187 mm telescopes

13 Fr.

CYSTO-URETHROSCOPE SYSTEM ▶ 13 Fr. ▶ Ø 2.7 mm/187 mm telescopes

Description	Art. No.	Information
CYSTO-URETHROSCOPE SHEATH 2 stopcocks; 1 instrument channel 3 Fr.; with obturator 	630-502-13	
CYSTO-URETHROSCOPE SHEATH with 2 CHANNELS; 1 x 5 or 2 x 4 Fr. 	630-500-14	
STANDARD OBTURATOR 	630-500-15	
TELESCOPE BRIDGE only for Art. No. 630-500-13 	630-500-20	 601-203-30HD
ALBARRAN DEFLECTOR only for Art. No. 630-500-13 	630-500-25	

MICRO INSTRUMENTATION ▶ 3 Fr. 13 Fr./11 Fr./9.5 Fr.

		
BIOPSY FORCEPS flexible; oval; double action FL 280 mm	GRASPING FORCEPS flexible; alligator jaw; double action FL 280 mm	BUTTON ELECTRODE * flexible HF electrode FL 470 mm
583-110-10	583-160-10	582-510-03

* For cables see overview in chapter „Accessories“.

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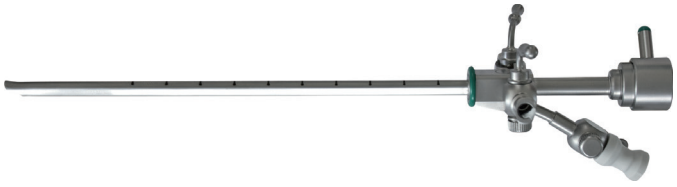
PEDIATRIC CYSTO-URETHROSCOPY

- 11 Fr. & 9.5 Fr. Systems for Ø 2.0 mm telescopes
- 7.5 Fr. System for Ø 1.9 mm telescopes

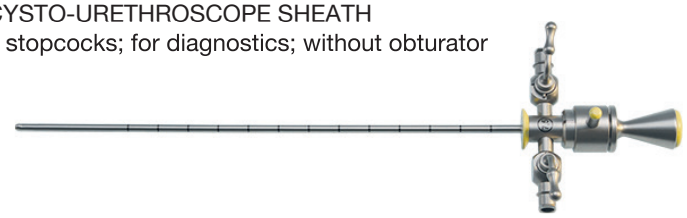


11 Fr.
9.5 Fr.
7.5 Fr.

CYSTO-URETHROSCOPE SYSTEM ▶ 11 Fr. & 9.5 Fr. ▶ Ø 2.0 mm / 187 mm telescopes

Description	Size / Color code / Art. No.		Information
	11 Fr. ■ green	9.5 Fr. ■ blue	
CYSTO-URETHROSCOPE SHEATH 2 stopcocks; 1 instrument channel 3 Fr.; with obturator 	630-507-11	630-507-09	 Ø 2.0 mm 601-102-00
STANDARD OBTURATOR 	630-505-12	630-505-10	

CYSTO-URETHROSCOPE SYSTEM ▶ 7.5 Fr. ▶ Ø 1.9 mm / 120 mm telescopes

Description	Size / Color code / Art. No.	Information
	7.5 Fr. ■ yellow	
CYSTO-URETHROSCOPE SHEATH 2 stopcocks; for diagnostics; without obturator 	630-507-07	 Ø 1.9 mm 120 mm
OBTURATOR for Art. No. 630-507-07	630-505-07	

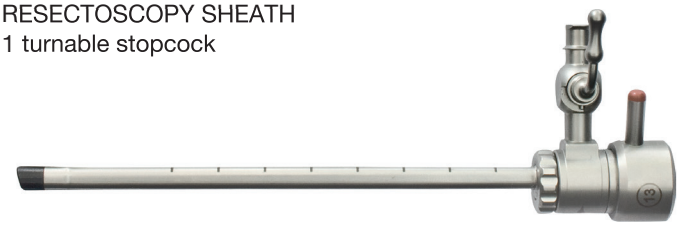
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PEDIATRIC RESECTOSCOPY

- 13 Fr. Resectoscopy System for Ø 2.7 mm/187 mm telescopes
- 11 Fr. Resectoscopy System for Ø 2.0 mm/187 mm telescopes

13 Fr.
11 Fr.

RESECTOSCOPY SHEATH SYSTEM ▶ 13 Fr. ▶ 11 Fr.

Description	Size / Color code / Art. No.		Information
	13 Fr. ■ red	11 Fr. ■ green	
Monopolar WORKING ELEMENT passive cutting; for resectoscopy and urethrotomy; for small children and new borns 	630-510-20		13 Fr. 11 Fr.
RESECTOSCOPY SHEATH 1 turnable stopcock 	630-510-13	630-511-13	
STANDARD OBTURATOR 	630-510-14	630-511-14	
TELESCOPE BRIDGE only for use with the resectoscopic sheaths of this system; and urethrotome sheaths 630-515-13 / 630-516-13 	630-510-25	630-511-25	
Telescope recommendation – TONTARRA HD telescopes	 Ø 2.7 mm 601-203-00HD	 Ø 2.0 mm 601-102-00	

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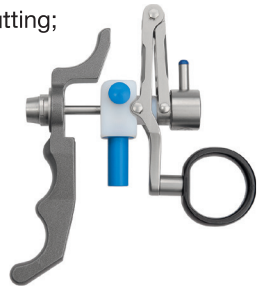
PEDIATRIC RESECTOSCOPY

▶ 9 Fr. Resectoscopy System for Ø 1.9 mm/120 mm telescopes



9 Fr.

▶ 9 Fr. RESECTOSCOPY SYSTEM ▶ for Ø 1.9 mm / 120 mm telescopes

Description	Size / Color code / Art. No.	Information
	9 Fr. ■ blue	
Monopolar WORKING ELEMENT passive cutting; for small children and new borns 	630-512-09	 Ø 1.9 mm 120 mm
RESECTOSCOPY SHEATH 9 Fr. with rotable stopcock 	630-512-13	
STANDARD OBTURATOR 	630-512-14	
TELESCOPE BRIDGE 	630-230-09	

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PEDIATRIC RESECTOSCOPY

- 13 Fr. Resectoscopy System for Ø 2.7 mm/187 mm telescopes
- 11 Fr. Resectoscopy System for Ø 2.0 mm/187 mm telescopes
- 9 Fr. Resectoscopy System for Ø 1.9 mm/120 mm telescopes



13 Fr.
11 Fr.
9 Fr.

MONOPOLAR HF ELECTRODES

13 Fr./11 Fr./9 Fr.

- Reusable electrodes for use with monopolar current and no-conductive solution

Description		13 Fr.	11 Fr.	9 Fr.
		red	green	blue
LOOP ELECTRODE ▶ size 1		630-510-50	630-511-50	630-512-50
LOOPS ELECTRODE ▶ size 2		630-510-55	630-511-55	630-512-55
BALL ELECTRODE		630-510-60	630-511-60	630-512-60
KNIFE ELECTRODE		630-510-65	630-511-65	630-512-65
HOOK ELECTRODE		630-510-70	630-511-70	630-512-70
Telescope recommendation		 Ø 2.7 mm 601-203-30HD	 Ø 2.0 mm 601-102-00	 Ø 1.9 mm

HF CONNECTION CABLES; MONOPOLAR for working elements and flexible electrodes / for working elements

Available for following units:	3.0 m		
Aesculap/Rudolf/Martin/Berchthold GN Ø 4.0 mm	582-530-01	 Plug instrument side	For further information and pictures see the overview about cables in the chapter „Accessories”.
Erbe/Storz; Ø 5.0 mm	582-531-02		
Valleylab; Conmed Ø 8.0 mm; Bowa; 8.0 mm	582-532-03		
TONTARRA mod. PWT-400; Equipment with banana plug Ø 4.0 mm	582-533-04		

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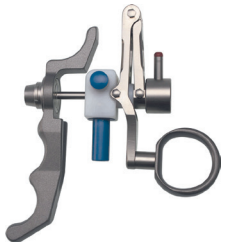
PEDIATRIC VISUAL URETHROTOMY

- 13 Fr. Visual Urethrotome System for Ø 2.7 mm telescopes
- 11 Fr. Visual Urethrotome System for Ø 2.0 mm telescopes



13 Fr.
11 Fr.

The TONTARRA WORKING ELEMENT is designed for use in resectoscopy and urethrotomy for small children and new borns.



Art. No. 630-510-20
WORKING ELEMENT
passive cutting

URETHROTOME SYSTEM ▶ 13 Fr. ▶ 11 Fr.

Description	Size / Color code / Art. No.	
	13 Fr. ■ red	11 Fr. ■ green
URETHROTOME SHEATH 1 turnable stopcock; without obturator 	630-515-13	630-516-13
STANDARD OBTURATOR 	630-515-14	630-516-14
TELESCOPE BRIDGE only for use with the urethrotom sheaths of this system; and resectoscopic sheaths 630-510-13 / 630-511-13 	630-510-25	630-511-25

STRICTURE KNIVES



13 Fr./11 Fr.

Description	Art. No.	
STRICTURE KNIFE ▶ straight	630-515-50	
STRICTURE KNIFE ▶ round	630-515-55	
STRICTURE KNIFE ▶ sickle shaped	630-515-60	
STRICTURE KNIFE ▶ hook shaped	630-515-65	

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TONTARRA



HF GENERATOR & CONNECTION CABLES

plasma wave

HF GENERATOR PLASMA WAVE

▶ PWT-400

HF Generator for electrical surgery PWT-400

SMART - SAFE - POWERFUL

Many options – one device.



SMART

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

SAFE

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

POWERFUL

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

HYBRID RESECTOSCOPY SYSTEMS

- A perfect match! The Plasma Wave HF generator and the TONTARRA bipolar resectoscopy system are perfectly sychronized to each other. Excellent resection effect due to precisely adjusted parameters.

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

plasma wave

- 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

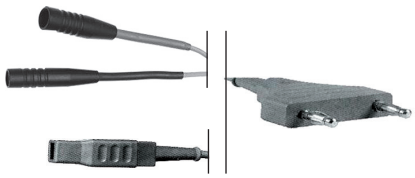
HF connection cables for PWT-400

HF-connection cables monopolar
3 m: Art. No. 582-533-04



HF-connection cables bipolar, to connect:

- working element to HF generator
  3 m: Art. No. 287-215-30BR



- bipolar electrodes to HF generator
  3 m: Art. No. 287-215-30
  5 m: Art. No. 287-215-50

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HF GENERATOR & HF CONNECTION CABLES

▶ HF Unit Plasma Wave PWT 400

HF UNIT PLASMA WAVE

Description	Art. No.
PWT-400 Plasma Wave; HF generator for electrical surgery 	540-280-50
TWIN FOOT-SWITCH 	540-285-50

HF CONNECTION CABLES

▶ Monopolar HF connection cables

HF CONNECTION CABLES; MONOPOLAR

▶ to connect working elements to HF generator; monopolar mode for resectoscopy
▶ to connect flexible monopolar HF electrodes for hysteroscopy to HF generator

Available for following units:	3.0 m	Instrument-side	Unit-side
Aesculap/Rudolf/Martin/Berchthold GN; Ø 4.0 mm	582-530-01		
Erbe/Storz; Ø 5.0 mm	582-531-02		
Valleylab, Conmed; Bowa; Ø 8.0 mm	582-532-03		
TONTARRA mod. PWT-400; Equipment with banana plug; Ø 4.0 mm	582-533-04		

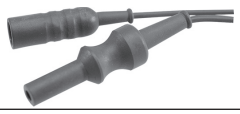
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HF CONNECTION CABLES

▶ Bipolar HF connection cables

HF CONNECTION CABLES; BIPOLAR

▶ to connect working elemenst to HF generator; bipolar mode for resectoscopy

Description	Length	Art. No.	Instrument-side	Unit-side
Erbe ICC/ACC; Storz	3.0 m	287-200-30BR		
Berchthold/Martin mod. Maxium	3.0 m	287-205-30BR		
TONTARRA mod. PWT-400; International Models; 2-pins	3.0 m	287-215-30BR		
Erbe mod. VIO300D; Erbe mod. VIO3; with multicontact connection; Karl Storz mod. Autocon II 400	3.0 m	287-220-30BR		
Emed-HF mod. Spectrum	4.0 m	287-225-30BR		
Bowa mod. ARC 350 & 400	4.5 m	287-230-30BR		

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	flat plug 	
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 PWT-400; Valleylab; International Models; 2 pins; Ø 4.0 mm	287-215-30	287-215-50		

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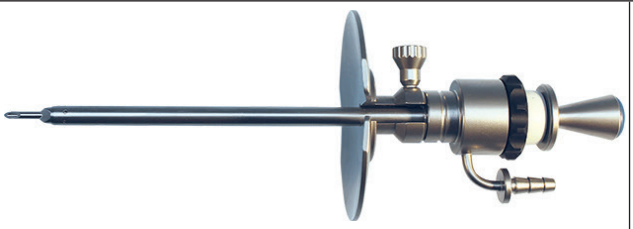


ACCESSORIES

ACCESSORIES

▶ Suprapubic trocar-set

SUPRAPUBIC TROCAR SET

Description	Art. No.
SUPRAPUBIC TROCAR SET (complete) Content: · Trocar with cannula tip 582-400-55) · trocar sleeve with pressure measuring channel (582-400-75) · stabilization disc (582-400-80) 	582-400-45
TROCAR SLEEVE with pressure measuring channel 	582-400-75
TROCAR with PYRAMIDAL TIP 	582-400-50
TROCAR with CANNULA TIP 	582-400-55
ASPIRATION CANNULA 	582-400-60
OVERFLOW CANNULA for pressure stabilization 	582-400-65
GUIDE SLEEVE lateral opening 	582-400-70
STABILIZATION DISC lateral opening 	582-400-80

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ACCESSORIES

▶ Dilating Bougies; Catheter Introduction; Penis Clamps



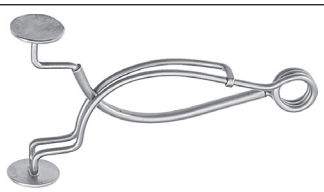
VAN BUREN; DILATING BOUGIES ▶ 275 mm

Size	Art. No.	Size	Art. No.	Size	Art. No.
8 Fr.	170-620-08	18 Fr.	170-620-18	28 Fr.	170-620-28
10 Fr.	170-620-10	20 Fr.	170-620-20	30 Fr.	170-620-30
12 Fr.	170-620-12	22 Fr.	170-620-22	32 Fr.	170-620-32
14 Fr.	170-620-14	24 Fr.	170-620-24	34 Fr.	170-620-34
16 Fr.	170-620-16	26 Fr.	170-620-26	36 Fr.	170-620-36

GUYON-CATHETER INTRODUCING INSTRUMENTS

Curved; 35 cm (13.8“)	Straight; 39 cm (15.4“)
	
170-268-36	170-268-39

PENIS CLAMPS

STOCKMANN; 8 cm (3.2“)	STRAUSS; 11 cm (4.4“)
	
170-345-08	170-349-11

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ACCESSORIES

▶ Evacuators; Bladder Syringes; Tubing Connectors & Sealing caps

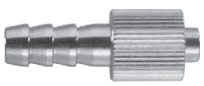
ELLIK EVACUATOR & SHEATH CONNECTIONS

Description	Art. No.
ELLIK EVACUATOR without connection; glass Content: Glass 582-400-20; Ball 582-400-25 	582-400-05
SHEATH CONNECTION with locking Conus length: 36 mm; Tube length: 115 mm 	582-400-10
SHEATH CONNECTION for ELLIK evaculator with connection; **Quick Lock** Conus length: 36 mm; Tube length: 115 mm 	582-400-10QL
SHEATH CONNECTION with cone Conus length: 32.7 mm; Tube length: 115 mm 	582-400-15

BLADDER SYRINGES

Size	With QuickLock QL	With sheath connection	Glass cylinder only
			For your convenience we also offer the cylinder as spare part.
50 ml	582-405-05	582-410-05	582-410-05Z
75 ml	582-405-07	582-410-07	582-410-07Z
100 ml	582-405-10	582-410-10	582-410-10Z
150 ml	582-405-15	582-410-15	582-410-15Z

TUBING CONNECTORS & SEALING CAPS

Description	Art. No.
LuerLock TUBING CONNECTOR 	087-940-01
LuerLock TUBING CONNECTOR with STOPCOCK 	087-940-02
SEALING CAP for instrument channel 3-7 Fr. with special WATER STOP VALVE; 10 pc. per box 5-9 Fr. 	499-198-00 499-198-01
SEALING CAP for instrument channel; 10 pc. per box 	499-199-00
SHAFT SEALING ADAPTER for use in female urethroscopy 	582-090-00

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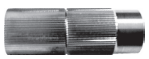
FIBER LIGHT GUIDE CABLES Ø 3.5 mm

▶ Stability & resistance for a long life time
▶ without connectors

Description	Standard Cold Light Line	HTT High Temperature Technology Line	HP High Performance Line	
Cold light sources	HALOGEN careful w/Xenon light!	for all cold light sources (excellent light transmission)		
		optimized for XENON	optimized for LED	
Sizes	Art. No.'s			
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	

For further information please ask for our Light Guide Cable brochure.

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	
Wolf	540-890-04		Wolf/Dyonics snap	540-880-13	
			Wolf/ Dyonics clip	540-880-05	
ACMI/British/Codman	540-890-01		ACMI/British/Codman	540-880-01	

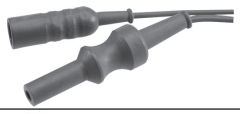
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ACCESSORIES

▶ Bipolar HF connection cables

HF CONNECTION CABLES; BIPOLAR

▶ to connect working element to HF generator; bipolar modus for resectoscopy

Description	Length	Art. No.	Instrument-side	Unit-side
Erbe mod. ICC/ACC; Storz	3.0 m	287-200-30BR		
Berchthold/Martin mod. Maxium	3.0 m	287-205-30BR		
TONTARRA mod. PWT-400; International Models; 2-pins	3.0 m	287-215-30BR		
Erbe mod. VIO300D; and VIO3 with multi-contact connector; Karl Storz mod. Autocon II 400	3.0 m	287-220-30BR		
Emed-HF mod. Spectrum	4.0 m	287-225-30BR		
Bowa mod. ARC 350 & 400	4.5 m	287-230-30BR		

HF CONNECTION CABLES; BIPOLAR

▶ to connect semi-flexible bipolar HF electrodes for cystoscopy 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; International Models; 2 pins; Ø 4.0 mm	287-215-30	287-215-50		

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ACCESSORIES

- Monopolar HF connection cables
- Maintenance; storage & sterilization

HF CONNECTION CABLES; MONOPOLAR

- to connect working element to HF generator; monopolar mode for resectoscopy
- to connect flexible monopolar HF electrodes for cystoscopy to HF generator

Available for following units:	3.0 m	Instrument-side	Unit-side
Aesculap/Rudolf/Martin/Berchthold GN; Ø 4.0 mm	582-530-01		
Erbe/Storz; Ø 5.0 mm	582-531-02		
Valleylab, Conmed; Bowa Ø 8.0 mm	582-532-03		
Equipment with banana plug; Ø 4.0 mm TONTARRA mod. PWT-400	582-533-04		

MAINTENANCE; STORAGE & STERILIZATION

Description	Art. No.
PROTECTING SLEEVE for ELECTRODES for storage and sterilization for up to 8 electrodes 	590-000-03
TAP & STOPCOCK LUBRICANT; special grease for surgical instruments; 5 gram per box 	582-095-00
INSTRUCARE INSTRUMENT OIL SPRAY T3000; 400 ml 	265-950-40

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