

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.

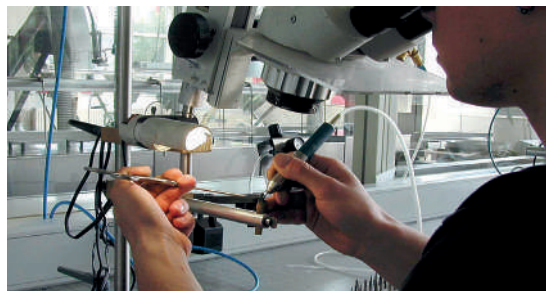
This success and the international recognition of the skillfulness in surgical and endoscopic instrument making of Tontarra Medizintechnik GmbH are based on our commitment to medical innovation, mastery in manufacturing, and a strong focus on our continuing tradition of excellence.

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

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		Light guide cables & Connectors; HF cables;	
		Maintenance, Storage & Sterilization	
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17.5/18.5 Fr.; with extra			
working channel for cystoscopy			

THE QUICK LOCK CONNECTING SYSTEM



The Quick-Lock connection system's main feature is the easy assembly and disassembly of the urological sheaths. The spring mechanism allows the optimal centering of the inner and outer sheaths. Above mentioned points are the main advantages of the Quick-Lock mechanism compared to the well-known Bayonet-type lock.

Each sheath is marked with an „arrow“ on the locking cone to indicate the correct assembly position.

The Quick Lock system is characterized by a smooth running take apart and a tight sealing as soon as the sheaths are connected to each other.





TELESCOPES

◀ HD

◀ HD+

◀ HD+2

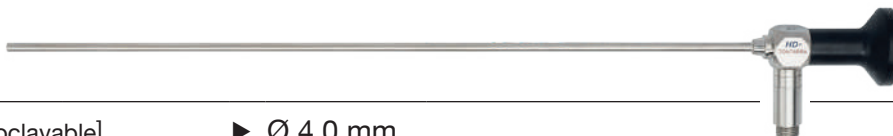
FLEXIBLE FIBERSCOPES

URETERO-RENOSCOPES

UROLOGY TELESCOPES HD+, HD+2



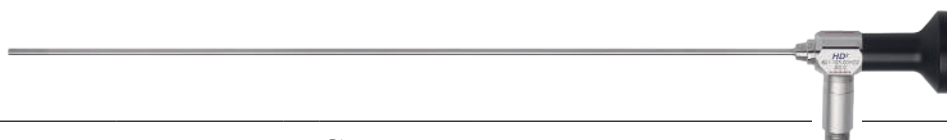
- ▶ Ø 4.0 mm / Ø 2.9 mm / Ø 2.7 mm / Ø 2.0 mm
- ▶ Compatible with most instrument- and camera systems



TELESCOPES FOR UROLOGY [autoclavable]

▶ Ø 4.0 mm

Description			Art. No.	· For use in cystoscopy and resectoscopy · Field of view: 70° · Available in four different angles of view
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	



TELESCOPES FOR UROLOGY [autoclavable]

▶ Ø 2.9 mm

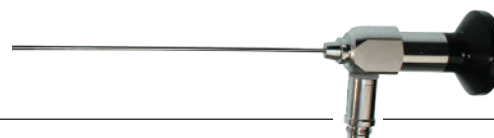
Description			Art. No.	· For use in cystoscopy and resectoscopy · Field of view: 80° · Available in four different angles of view
Telescope HD+2	▶ Ø 2.9 mm; 0°	FL 300 mm	601-103-00HD2	
Telescope HD+2	▶ Ø 2.9 mm; 12°	FL 300 mm	601-103-12HD2	
Telescope HD+2	▶ Ø 2.9 mm; 30°	FL 300 mm	601-103-30HD2	
Telescope HD	▶ Ø 2.9 mm; 70°	FL 300 mm	601-103-70	



TELESCOPES FOR UROLOGY [autoclavable]

▶ Ø 2.7 mm

Description			Art. No.	For use with TONTARRA's pediatric Uro-Line.
Telescope HD+	▶ Ø 2.7 mm; 0°	FL 187.5 mm	601-203-00HD	
Telescope HD+	▶ Ø 2.7 mm; 30°	FL 187.5 mm	601-203-30HD	



TELESCOPES FOR UROLOGY [autoclavable]

▶ Ø 2.0 mm

Description			Art. No.	For miniature cystoscopes and mini operative systems (e. g. to be used with TONTARRA's pediatric Uro-Line).
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	

FLEXIBLE FIBERSCOPES



Flexible Cystoscope



Flexible
Uretero-Renoscope

FLEXIBLE FIBERSCOPES [autoclavable]

Description		Art. No.	
FLEXIBLE CYSTOSCOPE ▶ Ø 5.5 mm; 0° ▶ Working channel Ø 2.3 mm ▶ Angulation up/down 210°/120°	FL 380 mm	EMTO/FCS-5523R (Resolution 18000 pixels)	· Excellent image quality · Resistant shaft and guiding part · Slightly offset deflection tip
	Field of view 100°	EMTO/FCS-5523.02 (Resolution 21000 pixels)	
FLEXIBLE URETERO-RENSCOPE ▶ Ø 7.5 Fr; 0° ▶ Working channel Ø 3.6 Fr. ▶ Angulation up/down 275°/275°	FL 680 mm	EMTO/FURS-2812R (Resolution 6800 pixels)	· Sterilizable with EtO-Gas and Steris®
	Field of view 88°	EMTO/FURS-2812.02 (Resolution 9000 pixels)	
BRIDGE ▶ with LUER-connector ▶ 2 stopcocks		087-940-07	

URETERO-RENSCOPES

- ▶ 30.000 pixel
- ▶ 2 working channels (1x 4 Fr. and 1x 5 Fr.)



TELESCOPES FOR UROLOGY [autoclavable]

Description			Art. No.	
URETERO-RENSCOPE [1 working channel 5 Fr.] ▶ 8.0/9.8 Fr.; 12° ▶ 8.0/9.8 Fr.; 12°	FL 315 mm		601-110-05	
	FL 430 mm		601-110-10	
URETERO-RENSCOPE [1 working channel 4 Fr.] ▶ 6.0/7.5 Fr.; 12° ▶ 6.0/7.5 Fr.; 12°	FL 315 mm		601-110-15	
	FL 430 mm		601-110-20	
AUTOMATIC VALVE (DUCKBILL) for Ureterorenoscopes 1 box = 10 pcs.			499-196-00	

HD NEPHROSCOPES

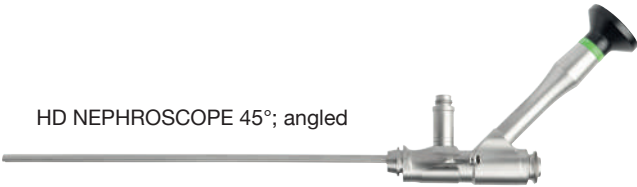
- ▶ ACMI[®]-Wolf[®]-Storz[®] and Olympus[®] light port adapters
- ▶ Autoclavable



HD NEPHROSCOPES Ø 2.8 mm

▶ working channel Ø 5.0 mm

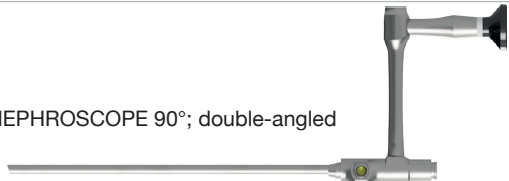
24 Fr. /26 Fr.

Description		Art. No.	Information
HD NEPHROSCOPE ▶ 45° angled	FL 200 mm	601-130-45	 HD NEPHROSCOPE 45°; angled
HD NEPHROSCOPE ▶ 45° angled	FL 250 mm	601-140-45	
HD NEPHROSCOPE ▶ 90° double-angled	FL 200 mm	601-130-90	 HD NEPHROSCOPE 90°; double-angled
HD NEPHROSCOPE ▶ 90° double-angled	FL 250 mm	601-140-90	

COMPACT NEPHROSCOPES Ø 1.8 mm

▶ working channel Ø 4.3 mm

23 Fr.

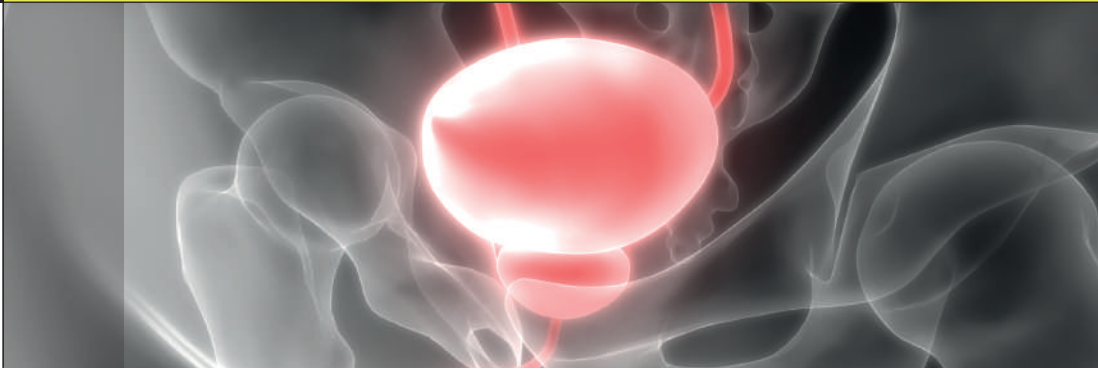
Description		Art. No.	Information
HD NEPHROSCOPE ▶ 45° angled	FL 220 mm	601-135-45	 HD NEPHROSCOPE 45°; angled
HD NEPHROSCOPE ▶ 90° double-angled	FL 220 mm	601-135-90	
			 HD NEPHROSCOPE 90°; double-angled

MINI COMPACT NEPHROSCOPES

▶ working channel Ø 2.2 mm

18 Fr./19.5 Fr./24 Fr.

Description		Art. No.	Information
HD MINI COMPACT NEPHROSCOPE; direction of view 0°; 40.000 pixels; shaft Ø 4,0mm (12 Fr.); with fix instrument bridge and integrated stopcock	FL 220 mm	601-145-30	



CYSTOSCOPY

◀ 17 - 25 Fr.

Lithotripsy

◀ 24 - 25.5 Fr.

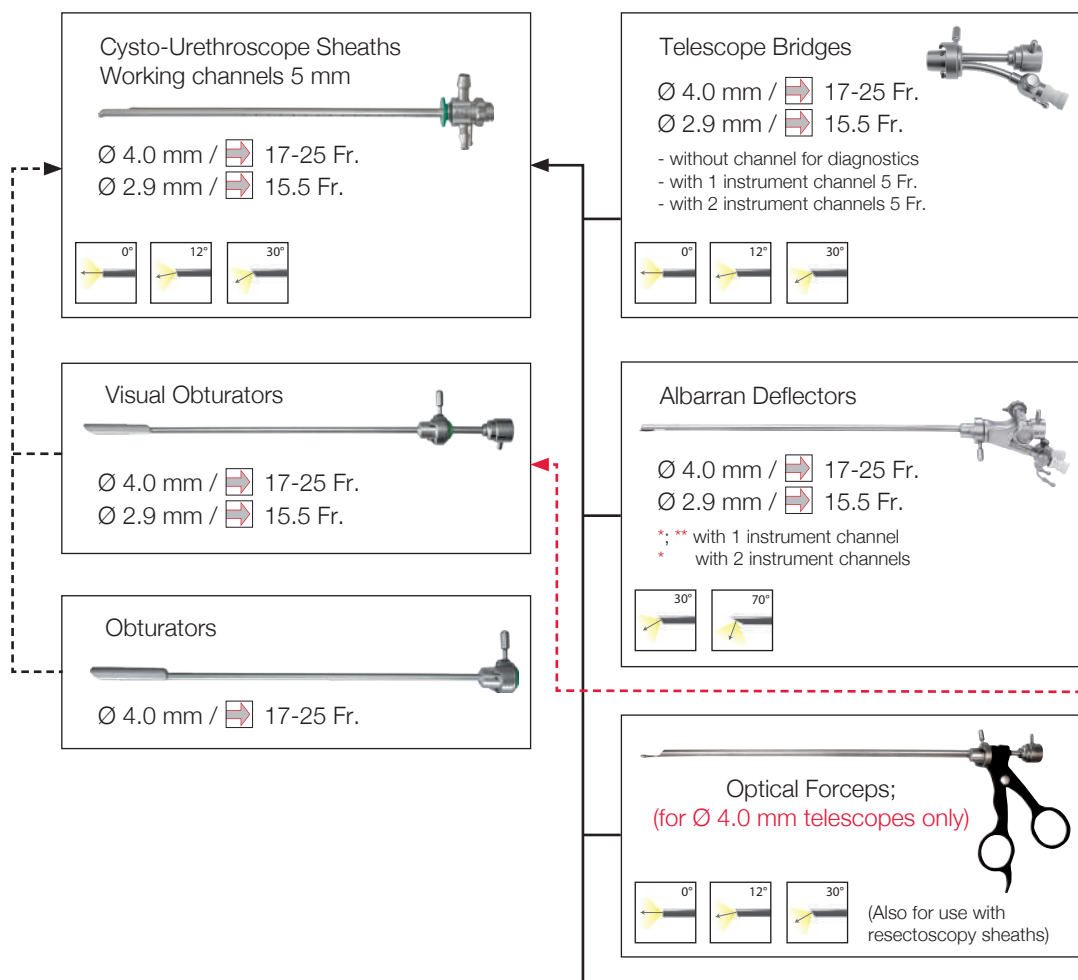


CYSTO-URETHROSCOPY & LITHOTRIPSY

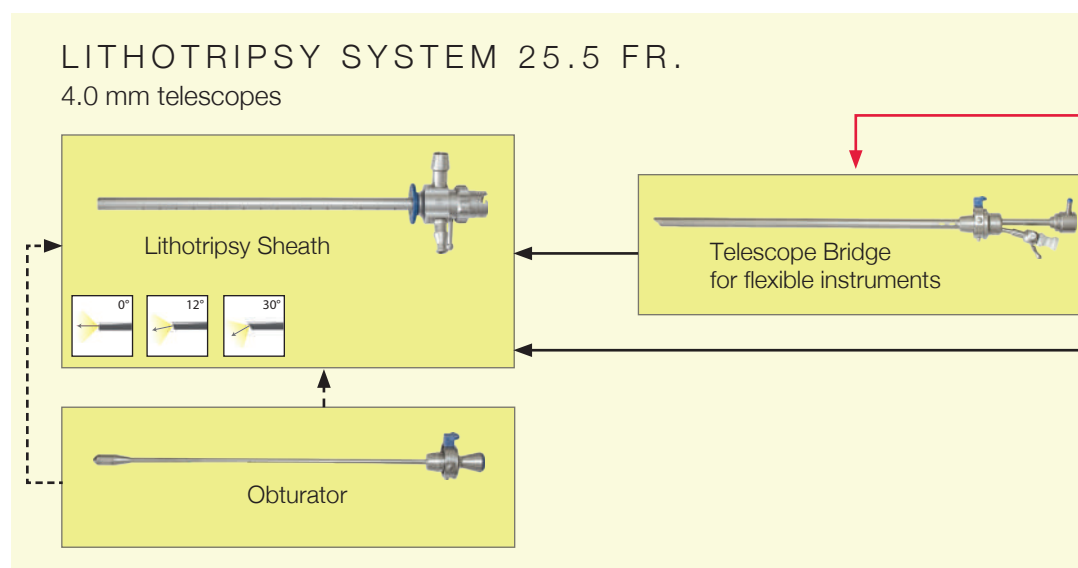
► Schematic overview

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

CYSTO-URETHROSCOPY



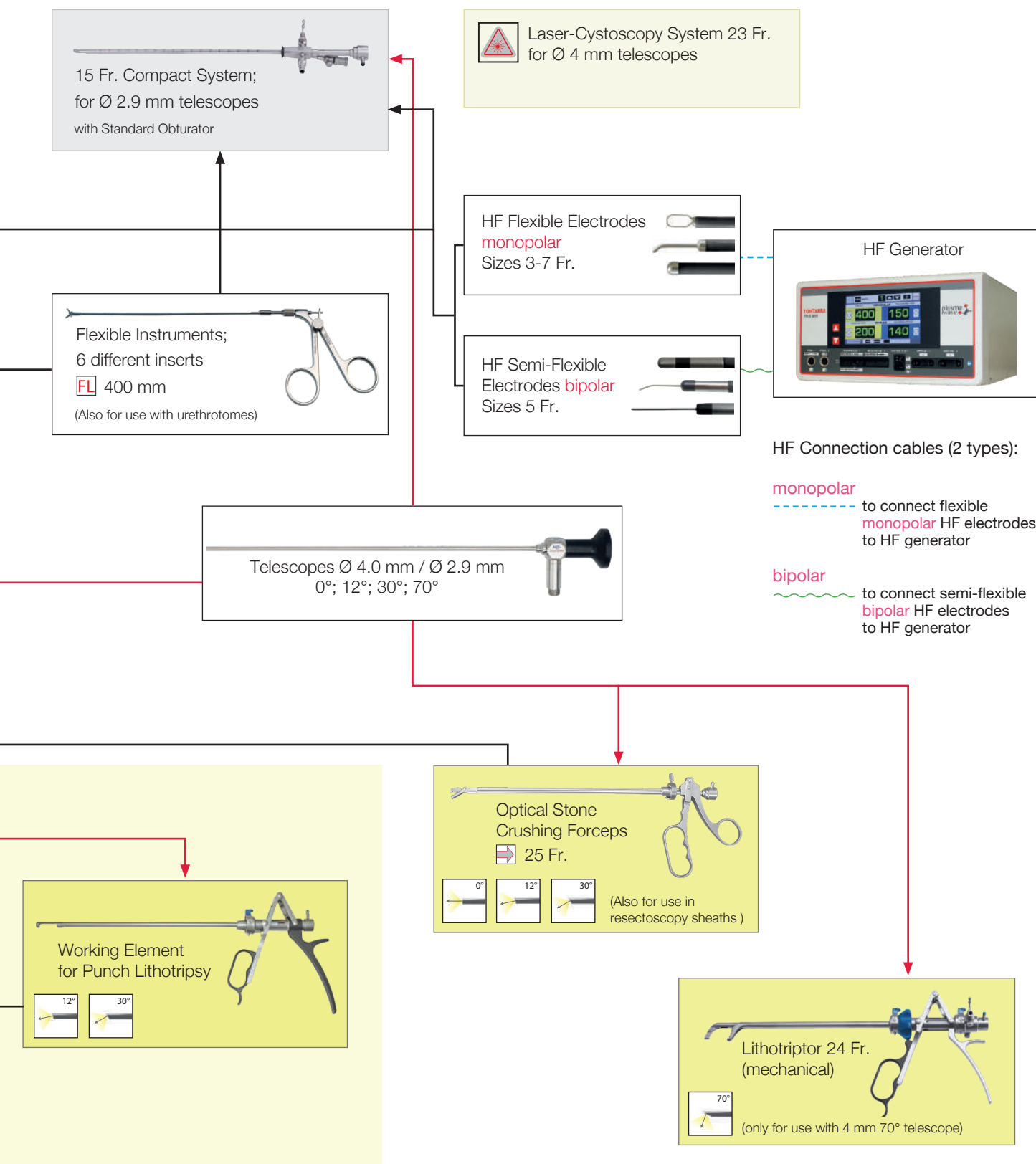
LITHOTRIPSY





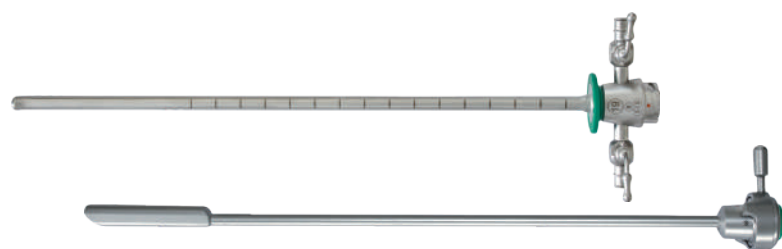
Systems and components for Ø 4.0 mm telescopes 17-25 Fr. & 25.5 Fr.

Systems and components for Ø 2.9 mm telescopes 15 Fr.

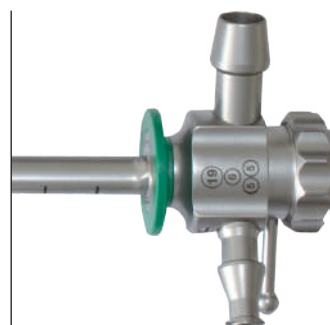




CYSTO-URETHROSCOPY



TONTARRA's well assorted high quality Cystoscopy instrument product range is well known in the market. It has proven to meet the needs of surgeons all over the world.



TONTARRA'S PORTFOLIO INCLUDES

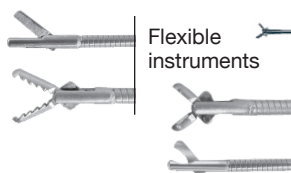
FOR Ø 4.0 mm TELESCOPES:

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

- Optical forceps

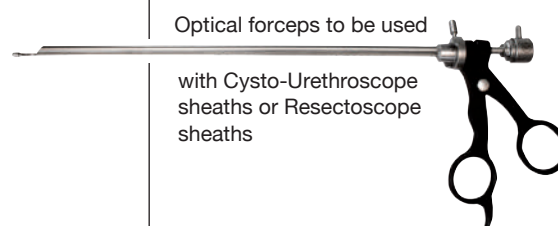


- 400 mm flexible instruments (5/7/9 Fr. working channels)



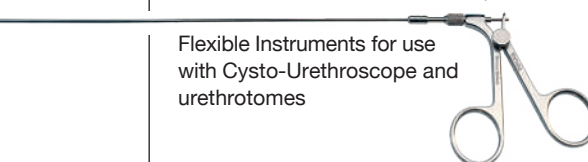
Flexible instruments

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

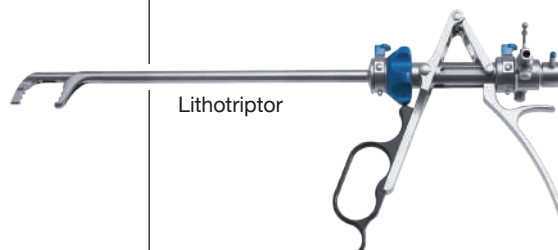


Optical forceps to be used

with Cysto-Urethroscope sheaths or Resectoscope sheaths



Flexible Instruments for use with Cysto-Urethroscope and urethrotomes



Lithotripter

- Laser Cystoscopy: see chapter "Laser instruments"



FOR Ø 2.9 mm TELESCOPES:

- Choose between a 15 Fr. compact system, or the 16 Fr. cysto-urethroscope system including telescope bridges and/or Albarran deflector (both options with 5 Fr. working channel)



Compact Cysto-Urethroscope

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

Monopolar flexible HF electrodes

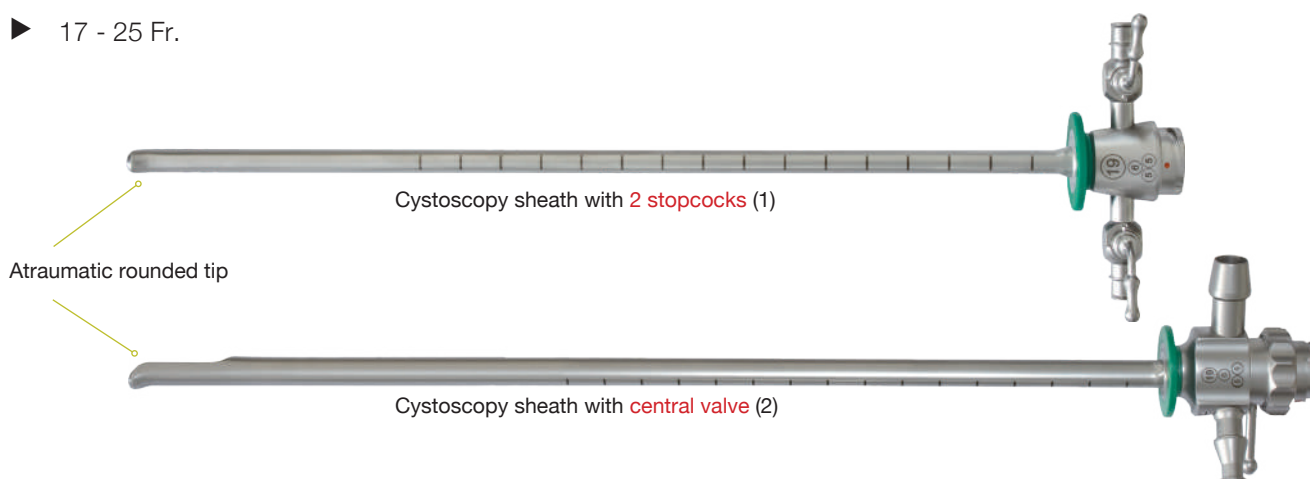


Bipolar semi-rigid HF electrodes



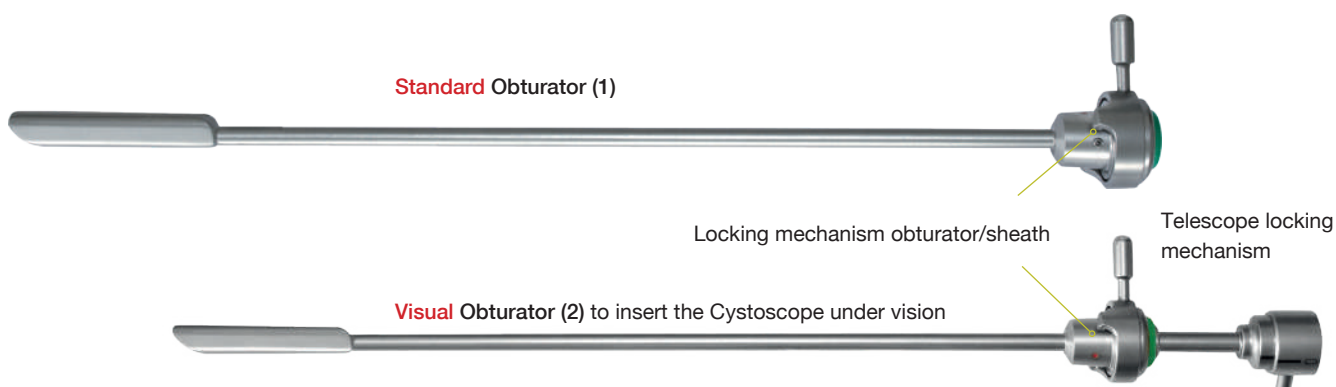
CYSTO-URETHROSCOPY

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



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

Size and colour		2 stopcocks (1)	1 central valve (2)	Information
17 Fr.	■ yellow	630-012-17	630-017-17	
19 Fr.	■ green	630-012-19	630-017-19	
21 Fr.	■ red	630-012-21	630-017-21	
23 Fr.	■ blue	630-012-23	630-017-23	
25 Fr.	□ white	630-012-25	630-017-25	



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

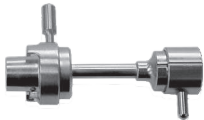
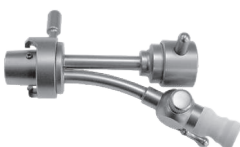
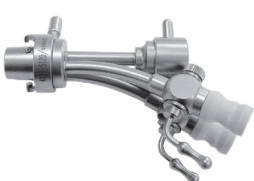
Size and colour		Standard (1)	Visual (2)	Information
17 Fr.	■ yellow	630-020-17	630-025-17	 601-104-30HD 601-104-30HD2
19 Fr.	■ green	630-020-19	630-025-19	
21 Fr.	■ red	630-020-21	630-025-21	
23 Fr.	■ blue	630-020-23	630-025-23	
25 Fr.	□ white	630-020-25	630-025-25	

CYSTO-URETHROSCOPY

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



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

		
TELESCOPE BRIDGE for diagnostics only	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 to the Cystoscope sheath in order to use insert the Telescope. 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.		

CYSTO-URETHROSCOPE SHEATHS in combination with Optical Bridges

Size and colour		Channel size
17 Fr.	 yellow	1x 5 French
		2x 4 French
19 Fr.	 green	1x 6 French
		2x 5 French
21 Fr.	 red	1x 7 French
		2x 6 French
23 Fr.	 blue	1x 10 French
		2x 7 French
25 Fr.	 white	1x 12 French
		2x 8 French

CYSTO-URETHROSCOPY

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



ALBARRAN DEFLECTOR

▶  17-25 Fr.

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



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

CYSTO-URETHROSCOPE SHEATHS in combination with Albarran Deflector

Size and colour		Channel size
17 Fr.	 yellow	1x 5 French
19 Fr.	 green	1x 5 French
		2x 4 French
21 Fr.	 red	1x 7 French
		2x 5 French
23 Fr.	 blue	1x 9 French
		2x 6 French
25 Fr.	 white	1x 10 French
		2x 8 French



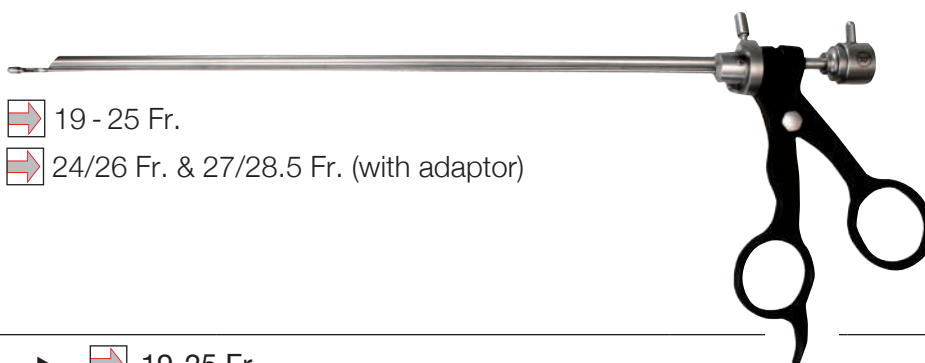
CYSTO-URETHROSCOPY

- ▶ Optical instruments for Ø 4.0 mm telescopes
- ▶ 19 - 25 Fr.

TONTARRA's optical instruments include scissors, forceps and punches for biopsy, foreign body extraction & removal of resectate. Extremely sharp cutting jaws, the stability of the entire instrument 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 ➡ 19 - 25 Fr.
- Resectoscopy sheaths ➡ 24/26 Fr. & 27/28.5 Fr. (with adaptor)



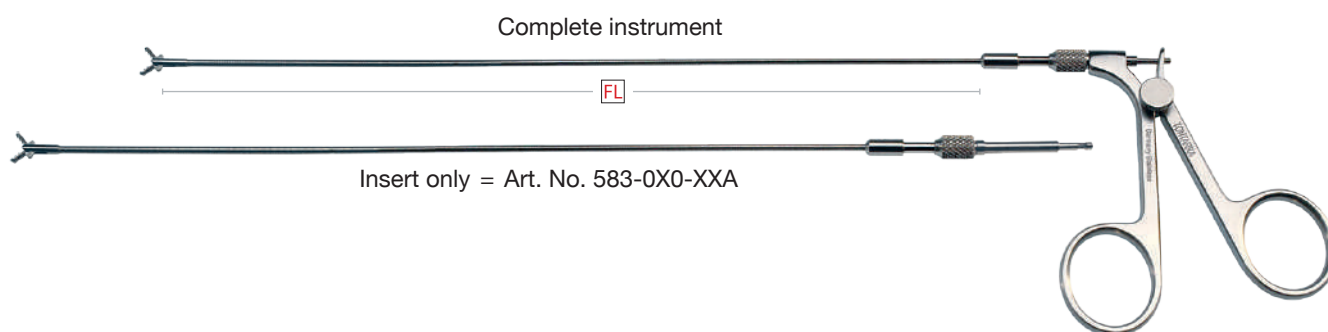
OPTICAL INSTRUMENTS ➡ ➡ 19-25 Fr.

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

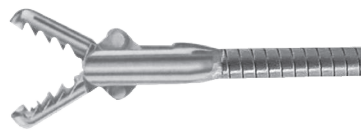
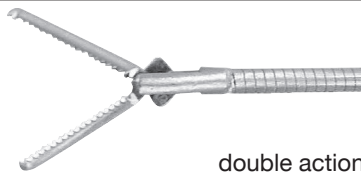


FLEXIBLE INSTRUMENTS

- For Cysto-Urethrosopes and Urethrotomes
- Instrument channels 5 Fr. / 7 Fr. / 9 Fr.



FLEXIBLE INSTRUMENTS ► **FL** 400 mm

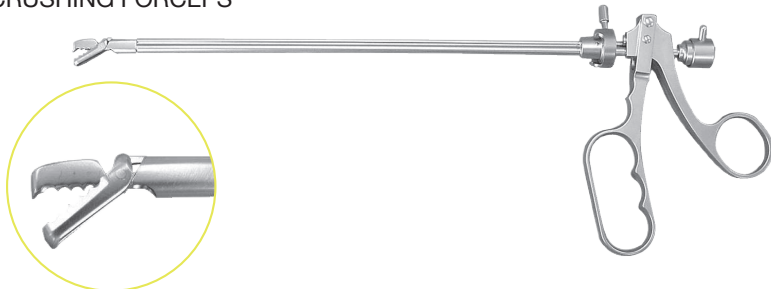
Description	5 Fr.	7 Fr.	9 Fr.	Information
BIOPSY FORCEPS ► flexible, oval, complete	583-010-16	583-010-23	583-010-30	 double action
INSERT only	583-010-16A	583-010-23A	583-010-30A	
SCISSORS ► flexible, complete	583-020-16	583-020-23	583-020-30	 single action
INSERT only	583-020-16A	583-020-23A	583-020-30A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

LITHOTRIPSY

► Instruments for Ø 4 mm telescopes



OPTICAL STONE CRUSHING FORCEPS ► 25 Fr.

Description	Art. No.	Information
STONE CRUSHING FORCEPS 	630-035-30	 12° 601-104-12HD 601-104-12HD2  30° 601-104-30HD 601-104-30HD2
ADAPTOR for using stone crushing forceps (No. 630-035-30) with 26/28.5 Fr. outer resectoscope sheath 	630-035-35	
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 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 to split the stone is not sufficient, the mechanism of the spindle wheel will surely do so. Smaller stone residues can then easily be triturated again with the lever handle.		

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	



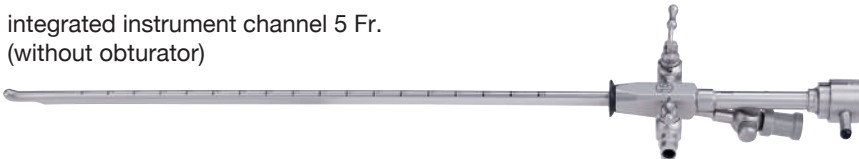
CYSTO-URETHROSCOPY

- ▶ Systems for Ø 2.9 mm telescopes
- ▶ 15 Fr.

TONTARRA's 15 French cystoscope for Ø 2.9 mm telescope 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	  30° 601-103-30HD2
STANDARD OBTURATOR 	630-042-02	

The TONTARRA 16 Fr. 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 ▶ 16 Fr.

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

CYSTO-URETHROSCOPY

- Systems for Ø 2.9 mm telescopes
- 16 Fr.



TELESCOPE BRIDGES ► 16 Fr.

		
TELESCOPE BRIDGE for diagnostics only	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 ► 16 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°).		

CYSTO-URETHROSCOPY



- Flexible electrodes for use with **monopolar** current and non-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.) are available on request

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

Available for following units:	3.0 m	Plug instrument side	
Erbe/Storz Ø 5.0 mm	582-531-02		For further information and pictures see overview of cables in chapter „Accessories”.
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 Size 5 Fr.

				
	BUTTON ELECTRODE	NEEDLE ELECTRODE angled 45°	NEEDLE ELECTRODE angled 90°	NEEDLE ELECTRODE straight
	582-515-05	582-516-05	582-518-05	582-517-05

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

Available for following units:	3.0 m	5.0 m		
Erbe; Storz/unit side round plug	287-200-30	287-200-50		For further information and pictures see overview of cables in chapter „Accessories”.
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		



RESECTOSCOPY

Ø 4 mm



◀ 24/26 Fr.

◀ 27/28.5 Fr.

RESECTOSCOPY

► Schematic overview



HYBRID RESECTOSCOPY

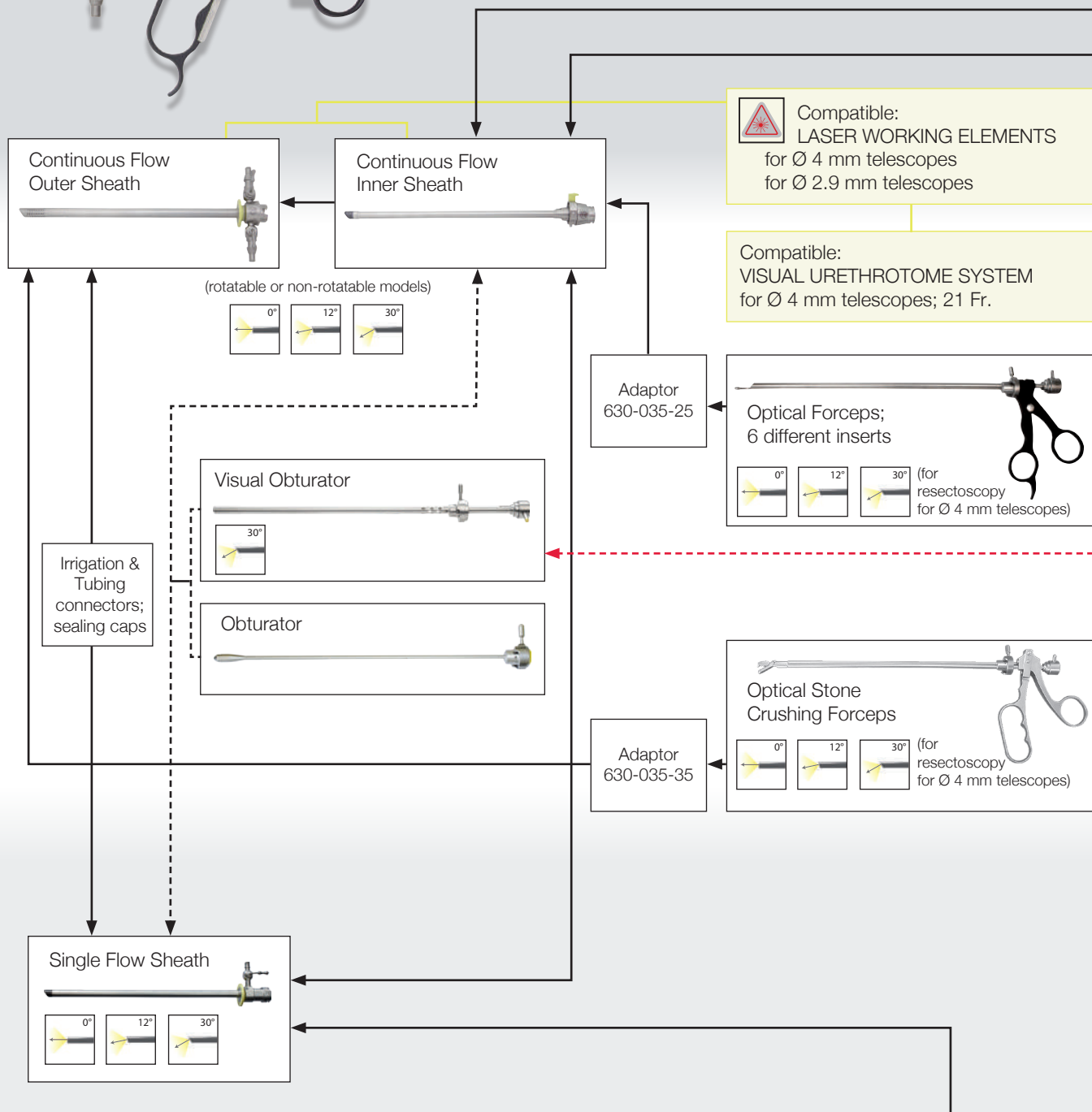
< BOTH SYSTEMS >

RESECTOSCOPY **monopolar**



HYBRID RESECTOSCOPY

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



RESECTOSCOPY for **monopolar** use only

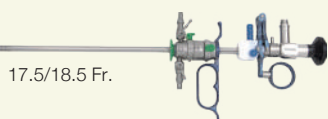
24/26 Fr.	
27/28.5 Fr.	
19/22 Fr.	
17.5/18.5 Fr.	

Systems and components for Ø 4.0 mm telescopes

Systems and components for Ø 2.9 mm telescopes

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.

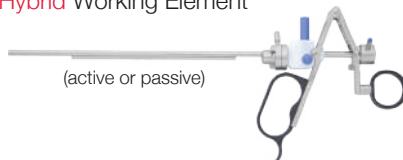
Electrodes **bipolar**
(Reusable or SALINAE Single use)



(examples)

Hybrid Working Element

(active or passive)



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



HF Connection cables (2 types):

monopolar

to connect working element to
HF generator

bipolar

to connect working element to
HF generator

HF Generator



Electrodes **monopolar**



(examples)

HF Needle electrodes

monopolar

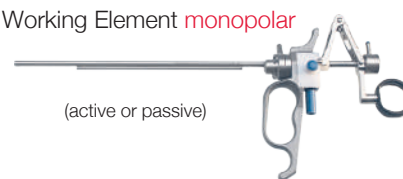
(for resectoscopy
for Ø 4 mm telescopes)



(examples)

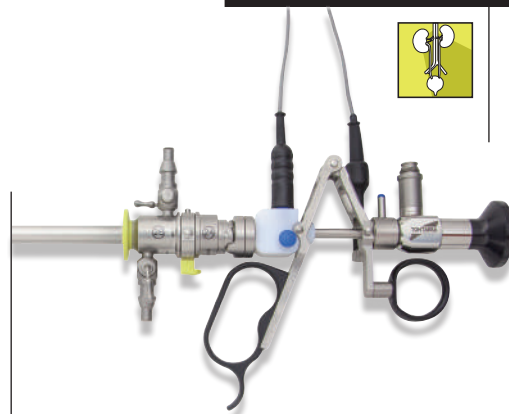
Working Element **monopolar**

(active or passive)



RESECTOSCOPY

TONTARRA features an extensive modular resectoscopy 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 urological 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 chapter "Laser instruments")

► RESECTOSCOPY LINE 27/28.5 Fr.

- Continuous flow sheaths for monopolar use
- Single flow sheaths for monopolar use
- Laser resectoscopy 
(see chapter "Laser instruments")

► COMPATIBLE MICRO TOOLS

- Optical forceps for telescopes Ø 4.0 mm
- Optical stone crushing forceps for use with resectoscopy outer 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
- Laser resectoscopy 
(see chapter "Laser instruments")

► MINI-RESECTOSCOPE 17.5/18.5 Fr.

- for bipolar use
- with separate working sheath
- Laser resectoscopy 
(see chapter "Laser instruments")

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

- less risk of 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 (Salinae)

17.5/18.5 Fr. 19/22 Fr. 24/26 Fr. 27/28 Fr.

Monopolar electrodes

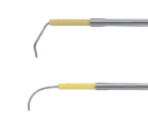


(examples)

Bipolar electrodes

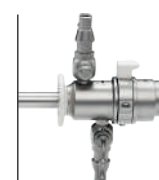
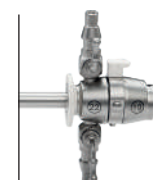


Monopolar HF-needle electrodes



(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.

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

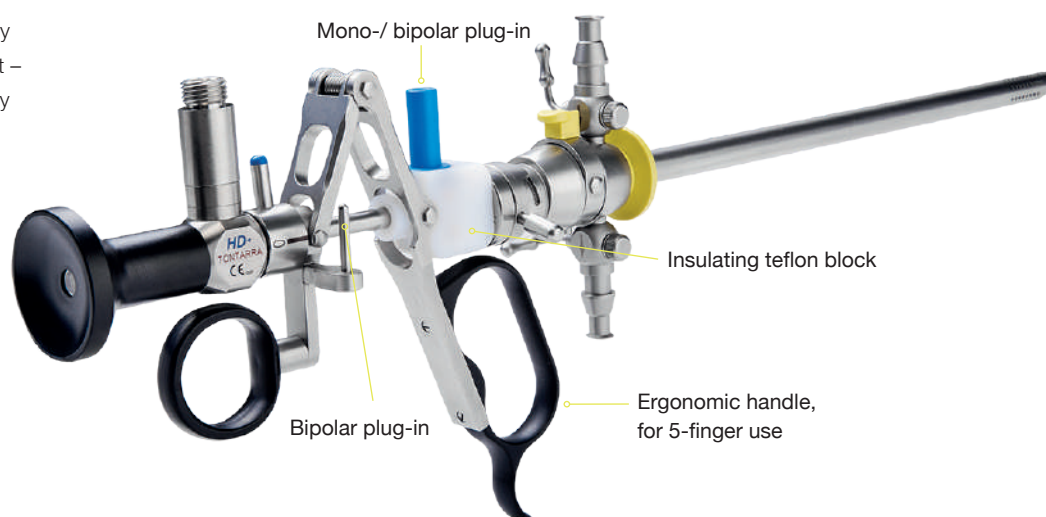
- HYBRID HF working elements 24/26 Fr.



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 (2.0 mm width) 1 pc. 	582-150-02GUB	–

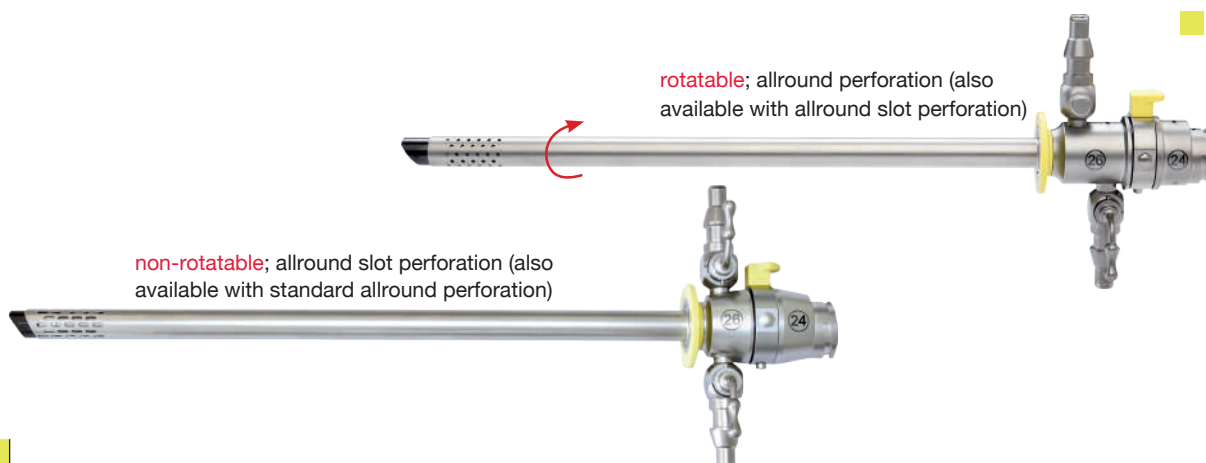
*Also for use in urethrotomy

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“

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

► Obturators & adaptor



24/26 Fr.

OBTURATORS; ADAPTOR

24/26 Fr.

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

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

► Optical forceps:

Optical forceps to use

with Cysto-Urethrosopes and Resectoscope sheaths

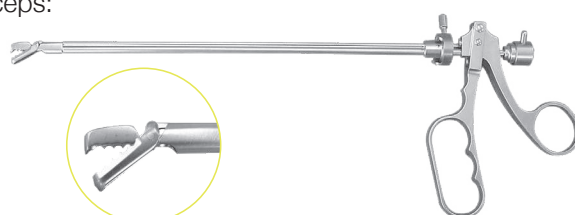


ADAPTOR for using optical instruments with resectoscopy sheaths

24/26 Fr. & 27/28.5 Fr.

(Art. No. 630-035-25)

► Stone crushing forceps:



ADAPTOR for using stone crushing forceps with resectoscopic outer sheaths

26 Fr. & 28.5 Fr.

(Art. No. 630-035-35)

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

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	—	
VAPORIZATION ELECTRODE; cone shaped	■ yellow/blue	630-240-75B	—	

For cable connection see cable overview in „Accessories“

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

► Working elements; **monopolar**



■ 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	

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

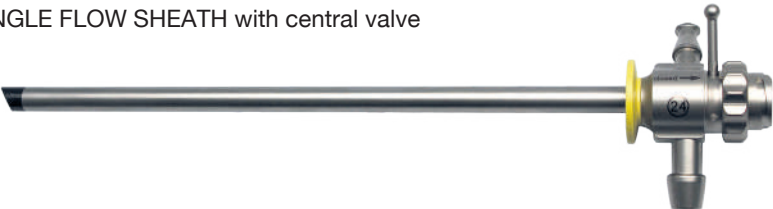
- Single flow sheaths



■ 24/26 Fr.

■ 27/28.5 Fr.

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	

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

- Reusable electrodes for use with **monopolar** current and non-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°	

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

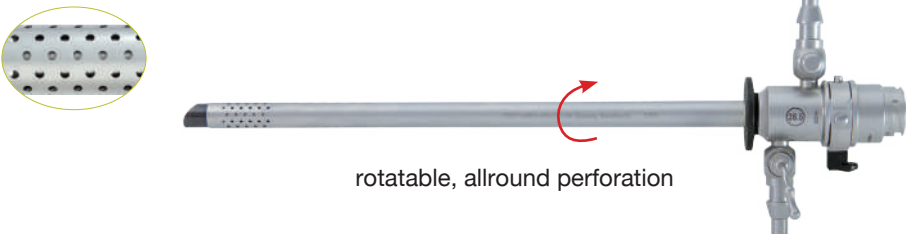
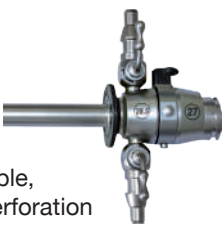
- ▶ HYBRID continuous flow sheaths for **mono-** & **bipolar** use
- ▶ Obturators & adaptor



■ 27/28.5 Fr.

CONTINUOUS FLOW SHEATHS; 2 stopcocks



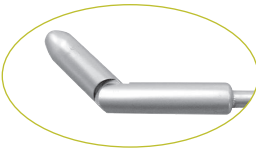
Description	Allround perforation	
 rotatable, allround perforation	 non-rotatable, allround perforation	
	Non-rotatable	Rotatable
OUTER SHEATH (28.5 Fr.)	630-204-08	630-209-08
INNER SHEATH (27 Fr.)	630-204-28	630-209-28

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

All mono- and bipolar electrodes for the 24/26 Fr. resectoscopy system can also be used 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 use of optical instruments with resectoscopy sheaths	630-035-25	

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

- ▶ Single flow sheaths for **monopolar** use
- ▶ Reusable electrodes for use with **monopolar** current and non-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

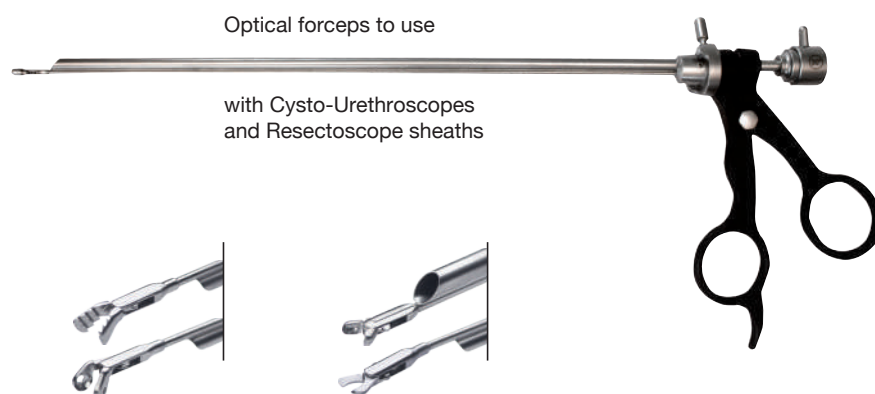
Available for following units: Erbe/Storz; Ø 5.0 mm Valleylab; Conmed; Bowa; Ø 8.0 mm TONTARRA mod. PWT-400; Equipment with banana plug; Ø 4.0 mm	3.0 m 582-531-02 582-532-03 582-533-04	Plug instrument side 	For further information and pictures see overview of cables in chapter „Accessories“.
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MICRO TOOLS COMPATIBLE TO THE 27/28.5 Fr. RESECTOSCOPY SYSTEM



■ 27/28.5 Fr.

► Optical forceps "Drop Style" for better insertion:



ADAPTOR for use of optical instru-
ments with resectoscopy sheaths

➡ 24/26 Fr. & 27/28.5 Fr.

(Art. No. 630-035-25)

► Stone crushing forceps:



ADAPTOR for using stone crushing
forceps with resectoscopic outer
sheaths

➡ 26 Fr. & 28.5 Fr.

(Art. No. 630-035-35)





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. Sorbitol, 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	

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	

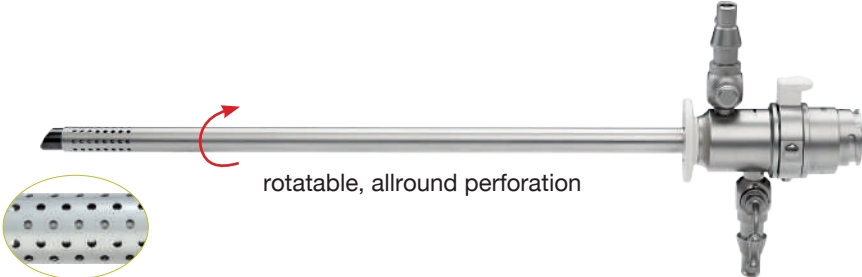
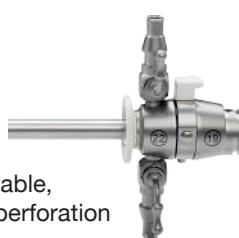
*Also for use in urethrotomy

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	
 rotatable, allround perforation	 non-rotatable, allround perforation	
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

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%) ☐ 19/22 Fr.
- ▶ Reusable electrodes for use with **monopolar** current and non-conductive solution (Sorbitol, Mannitol, Glycine)

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:

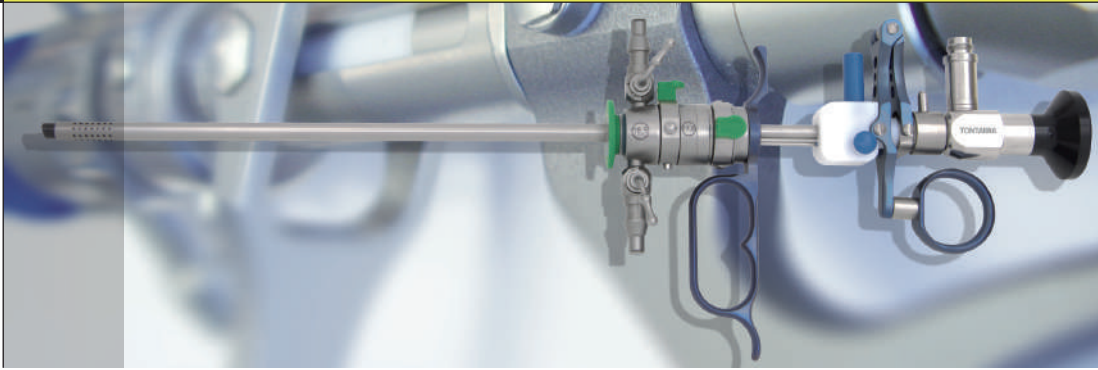


630-340-05B or 630-340-05B-S

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: Erbe/Storz; Ø 5.0 mm Valleylab; Conmed; Bowa; Ø 8.0 mm TONTARRA mod. PWT-400; Equipment with banana plug Ø 4.0 mm	3.0 m 582-531-02 582-532-03 582-533-04		For further information and pictures see overview of cables in chapter „Accessories“.
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MINI- CYSTO-RESECTOSCOPY

Ø 2.9 mm

◀ 17.5/18.5 Fr.

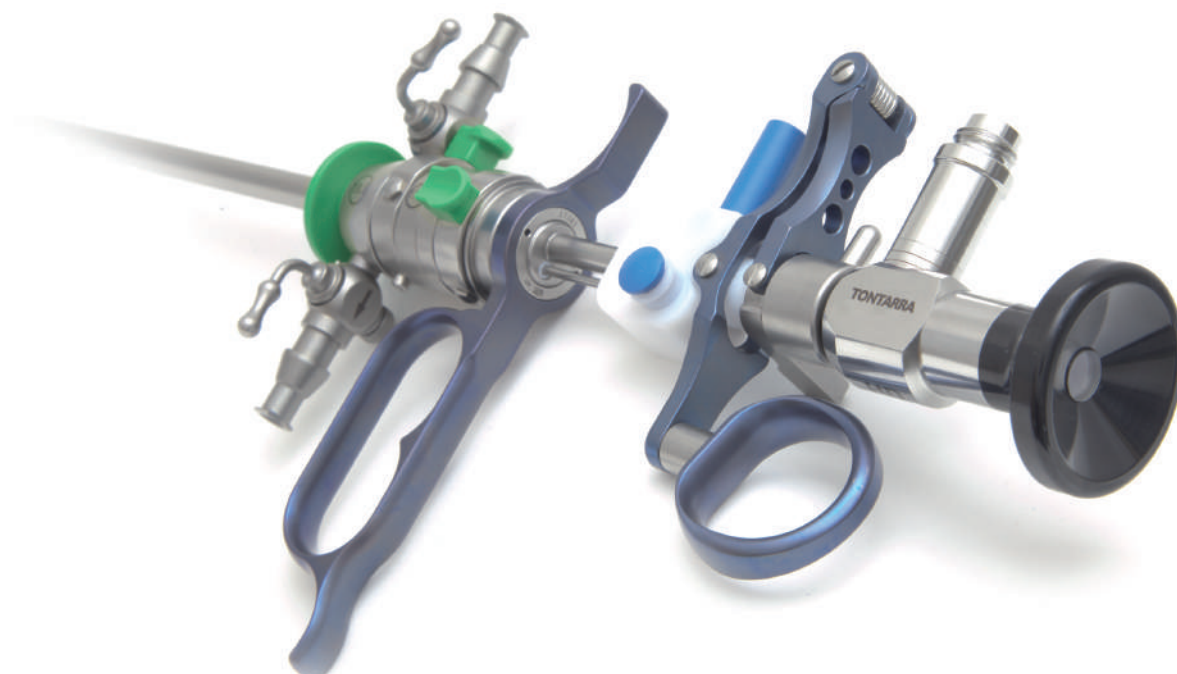
◀ 17 Fr.



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 sheath provides a smooth sheath exchange.

An optimized continuous flow rate assures a clear endoscopic view.

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 

Inner and outer sheaths are compatible to Laser working elements and accessories: see chapter „Laser instruments“

MINI-CYSTO-RESECTOSCOPY SYSTEM FOR Ø 2.9 MM TELESCOPES

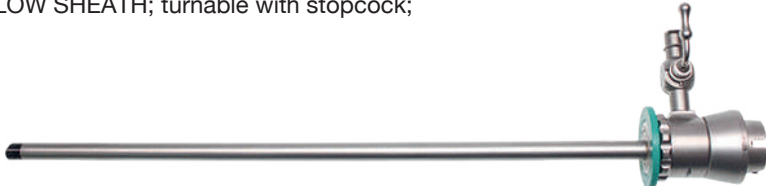
- ▶ Single flow sheath; obturator



■ 17.5 Fr.

SINGLE FLOW SHEATH; OBTURATOR

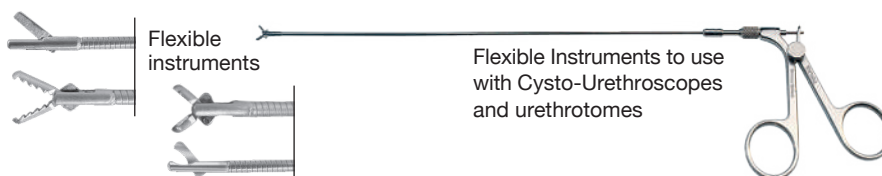


Description	Colour code	Art. No.
Standard		
SINGLE FLOW SHEATH; turnable with stopcock; 17 Fr. 	■ green	582-180-15
OBTURATOR for single flow and continuous flow sheaths 	■ green	582-180-23

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.

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.

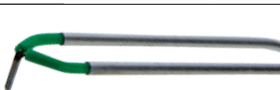
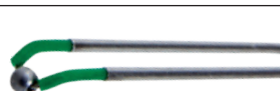
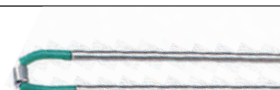
BIPOLAR WORKING ELEMENTS; CLOSED HANDLE

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



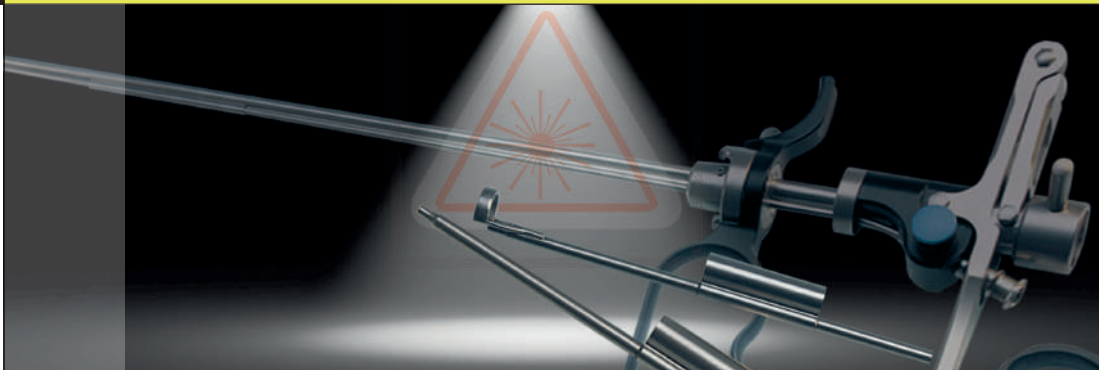
Description		Art. No.
WORKING ELEMENT; active		582-180-01B
WORKING ELEMENT; passive		582-180-00B
SAFETY DISTANCE HOLDER for bipolar working element 582-180-01B; 582-180-00B (2.0 mm width); 10 pc./unit		582-150-02GUB

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





INSTRUMENTS FOR LASER THERAPY

Laser-Cystoscopy

◀ 23 Fr.

Laser-Resectoscopy

◀ 24/26 Fr.

◀ 27/28.5 Fr.

◀ 19/22 Fr.

◀ 17.5/18.5 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	  
STANDARD OBTURATOR ➡ 23 Fr. 	630-045-30	
VISUAL OBTURATOR ➡ 23 Fr. 	630-045-35	 601-104-30HD 601-104-30HD2 (601-104-12HD) (601-104-12HD2)
TELESCOPE BRIDGE; 1 instrument channel 8 Fr. ➡ 23 Fr. 	630-045-40	

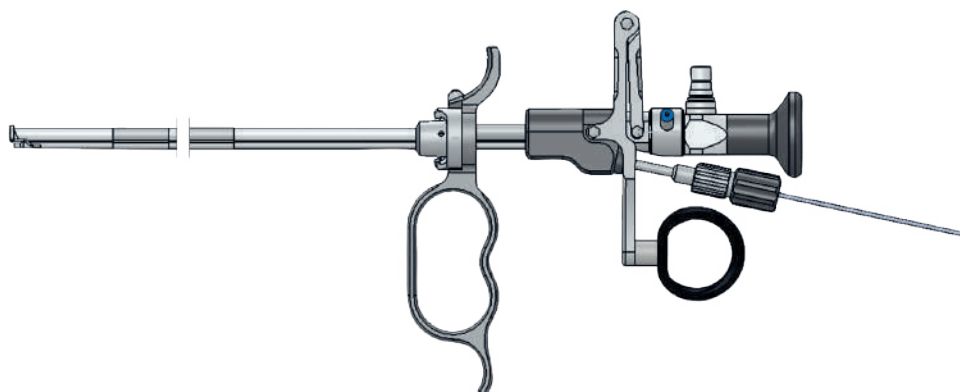
LASER-RESECTOSCOPY

- 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.	Art. No.
	GUIDE TUBE	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



LASER-RESECTOSCOPY

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



Mini-Resectoscopy

- 24/26 Fr.
- 27/28.5 Fr.
- 19/22 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.	
		for fibres Ø 1.2 mm	for fibres Ø 0.8 mm
LASER-WORKING ELEMENT passive ▶ with LuerLock connectors ▶ compatible to Tuohy Borst adapter and Fiber intakes	Telescopes Size		
	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

MINI LASER-RESECTOSCOPY

- ▶ The TONTARRA 18.5 Fr. Mini-Laser Resectoscope opens a new era for the surgeon in the field of BPH treatment.



Mini-Resectoscopy

■ 17.5/18.5 Fr.



HOLMIUM:YAG Laser

- ▶ Wavelength 2.100 μ
- ▶ HoLEP (Holmium Laser Enucleation of the Prostate)
- ▶ Urethral Strictures
- ▶ Bladder and Urethral Tumors

KTP – Potassium Titanil Phosphate Laser (Green Laser)

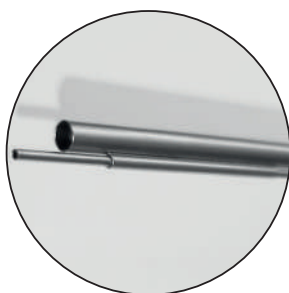
- ▶ Wavelength 532 μ
- ▶ PVP (Selective Photo-Evaporation of the Prostate)
- ▶ BPH (Benign Prostatic Hyperplasia)

THULIUM Tm:YAG Laser

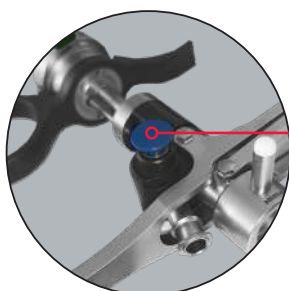
- ▶ Wavelength 2.100 μ
- ▶ BPH (Benign Prostatic Hyperplasia)
- ▶ Urethral Strictures
- ▶ Bladder and Urethral Tumors

Technical and application advantages:

- ▶ HOLMIUM:YAG Laser
 - Enucleation and removal of the prostate lobes through the use of Morcellator
 - No bleeding and short catheterization
- ▶ THULIUM Tm:YAG Laser
 - Enucleation, Vaporization and Vaporesection Techniques
 - Minimal production of air bubbles – good vision
 - Bloodless endoscopic field



The 18.5 Fr. Mini-Laser Resectoscope allows use of laser fibers up to 0.8 mm. A fixed special guiding tube enables the surgeon to perfectly control the laser fiber movements.



Push Button for better control and adjustment of the laser fiber

18.5 Fr. Mini-Laser Resectoscope is part of the TONTARRA “Laser-Line”:

- ▶ Superior quality vision thanks to Ø2.9 mm 2nd generation HD+2 Telescopes
- ▶ Thin diameter and rotatable sheaths
- ▶ Continuous flow
- ▶ Quick-Lock connection system
- ▶ High level performance

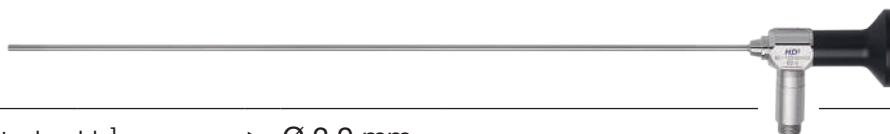
MINI LASER-RESECTOSCOPY

- ▶ The TONTARRA 18.5 Fr. Mini-Laser Resectoscope opens a new era for the surgeon in the field of BPH treatment.



Mini-Resectoscopy

17.5/18.5 Fr.



TELESOPES FOR UROLOGY [autoclavable]

▶ Ø 2.9 mm

Description	Art. No.	
Telescopes HD+2 ▶ Ø 2.9 mm; 0° FL 300 mm	601-103-00HD2	• Field of view: 80° • Compatible with most instrument- and camera systems
Telescopes HD+2 ▶ Ø 2.9 mm; 12° FL 300 mm	601-103-12HD2	
Telescopes HD+2 ▶ Ø 2.9 mm; 30° FL 300 mm	601-103-30HD2	

MINI-LASER WORKING ELEMENT; closed handle; passive

- ▶ For 2.9 mm telescopes (30° scope is recommended)
- ▶ For laser probes of up to 0.8 mm

Description	Art. No.	
MINI-LASER WORKING ELEMENT; passive - 17.5 Fr. - QuickLock connection - with push button - with fixed guide tube - Color code: white	630-049-00	

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

MINI LASER-RESECTOSCOPY

- The TONTARRA 18.5 Fr. Mini-Laser Resectoscope opens a new era for the surgeon in the field of BPH treatment.



Mini-Resectoscopy

17.5/18.5 Fr.

CONTINUOUS FLOW SHEATHS; WORKING SHEATHS ► rotatable



Rotatable		Color code	Art. No.
OUTER SHEATH ► 18.5 Fr. 		■ green	582-180-24
INNER SHEATH ► 17.5 Fr. 		■ green	582-180-26
OBTURATOR for continuous flow sheaths 		■ green	582-180-23





URETHROTOMY

◀ 21 Fr.

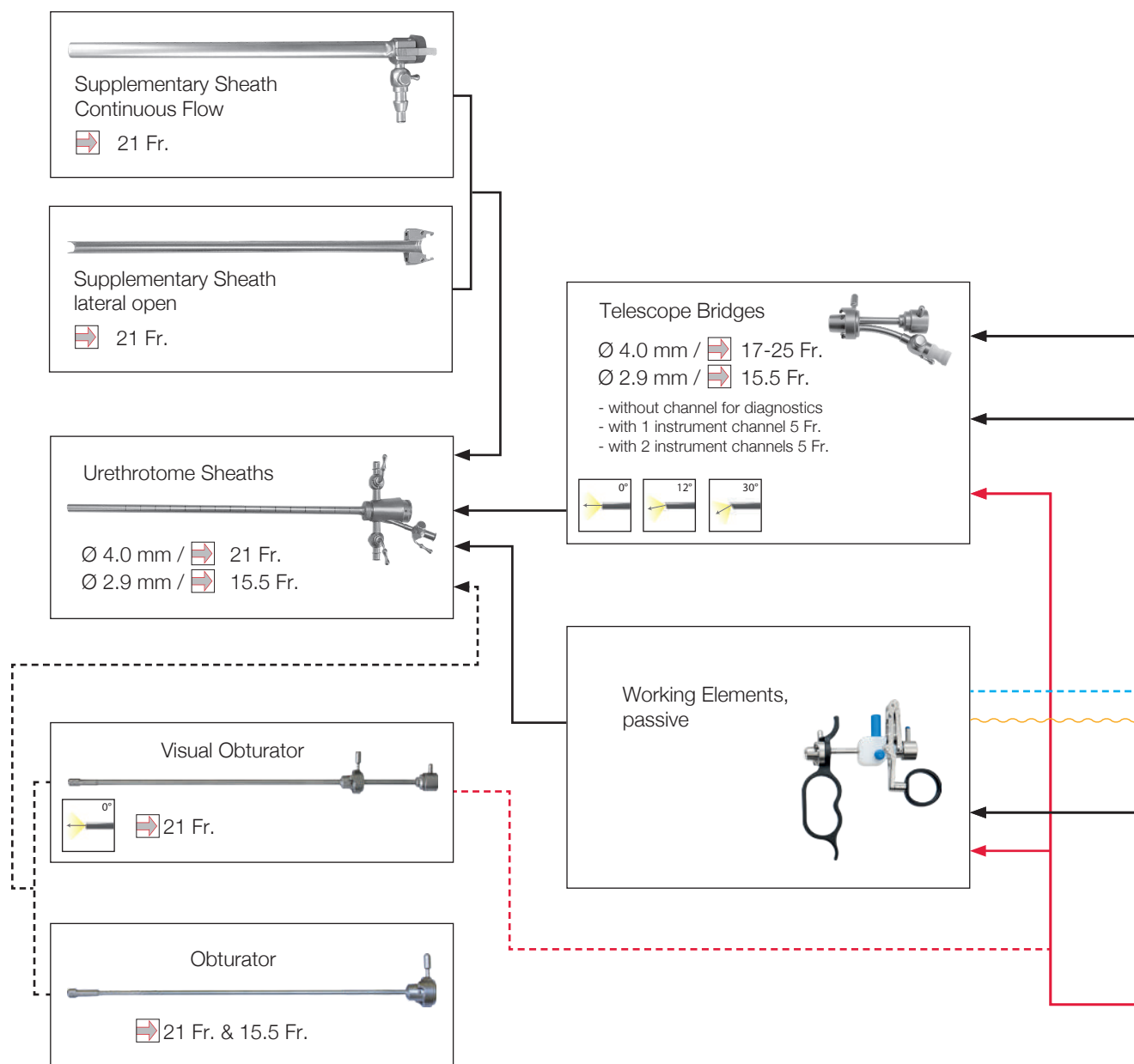
◀ 15.5 Fr.



URETHROTOMY

► Schematic overview

URETHROTOMY



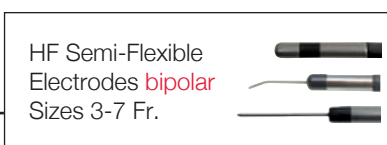
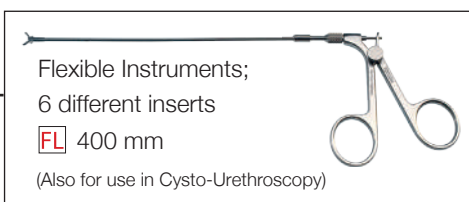


Systems and components for Ø 4.0 mm telescopes

21 Fr.

Systems and components for Ø 2.9 mm telescopes

15.5 Fr.



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

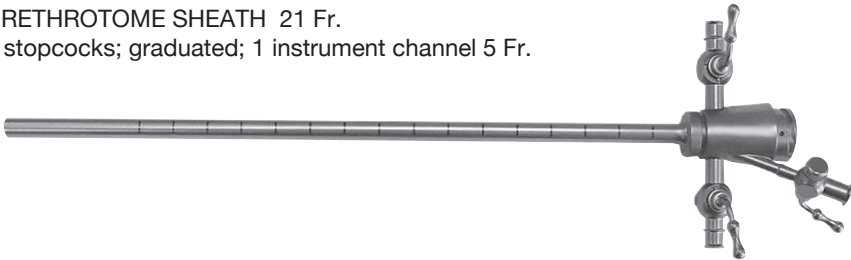
URETHROTOME SYSTEM

► 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.	
STANDARD OBTURATOR 	 21 Fr.	630-400-50
OBTURATOR with 1 instrument channel 5 Fr. 	 21 Fr.	630-400-60
VISUAL OBTURATOR 	 21 Fr.	 0° 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.

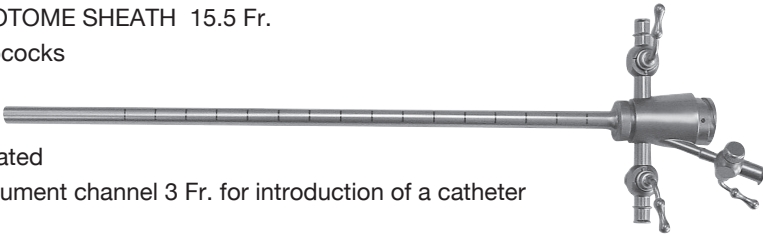
URETHROTOME SYSTEM

- ▶ 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

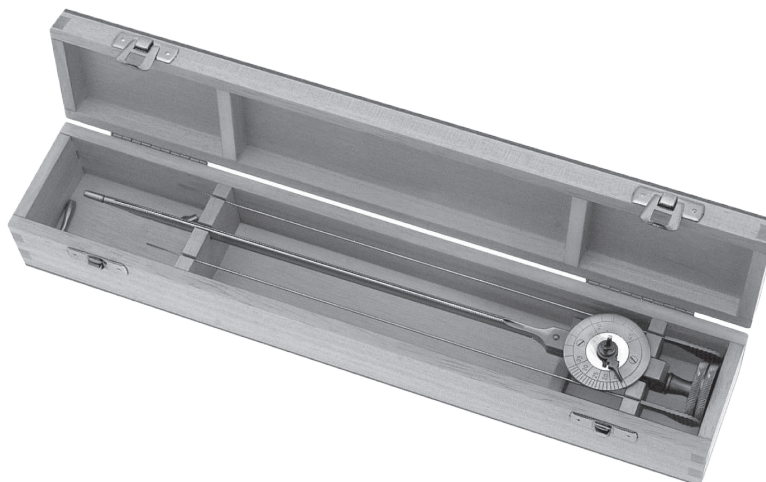
Description	Art. No.	Information
URETHROTOME SHEATH 15.5 Fr. ▶ 2 stopcocks ▶ graduated ▶ 1 instrument channel 3 Fr. for introduction of a catheter 	630-401-15	
STANDARD OBTURATOR 	 15.5 Fr. 630-401-26	
TELESCOPE BRIDGE 1 instrument channel 5 Fr. 	630-401-30	 0° 601-103-00HD 601-103-00HD2
URETHROTOME WORKING ELEMENT for 2.9 mm telescopes ▶ passive ▶ Working element can only be used with 15.5 Fr. Urethrotome ▶ only for mechanical use and not with HF application 	630-405-60BU	

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	

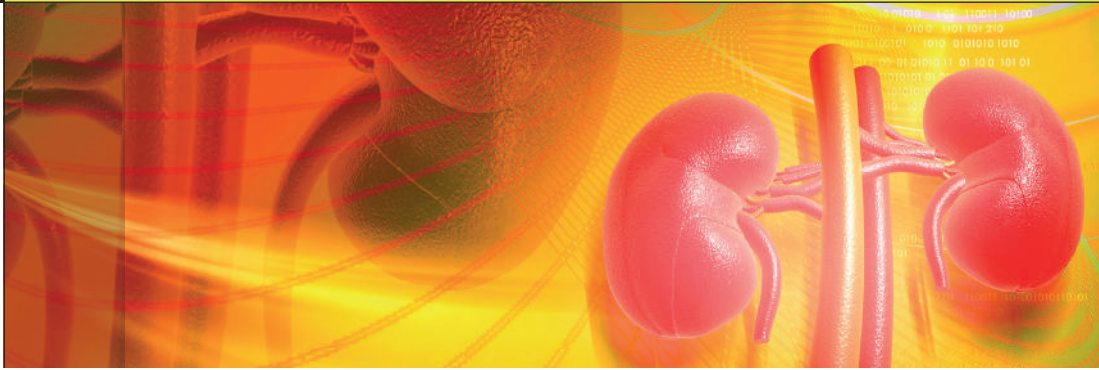
URETHROTOME OTIS

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



URETERO-RENOSCOPY



URETERO-RENSCOPY

- ▶ Uretero-Renoscopes; 30.000 pixel; 2 working channels (1x 4 Fr. and 1x 5 Fr.)
- ▶ Flexible stone baskets



URETERO-RENSCOPES [autoclavable]

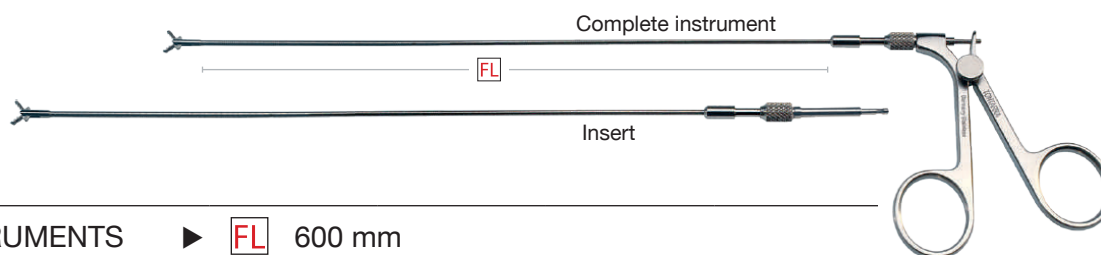
Description			Art. No.	
URETERO-RENSCOPE	[1 working channel 5 Fr.]			
	▶ 8.0/9.8 Fr.; 12°	FL 315 mm	601-110-05	
	▶ 8.0/9.8 Fr.; 12°	FL 430 mm	601-110-10	
URETERO-RENSCOPE	[1 working channel 4 Fr.]			
	▶ 6.0/7.5 Fr.; 12°	FL 315 mm	601-110-15	
	▶ 6.0/7.5 Fr.; 12°	FL 430 mm	601-110-20	

FLEXIBLE 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	

URETERO-RENOSCOPY

► Flexible Instruments; FL 600 mm



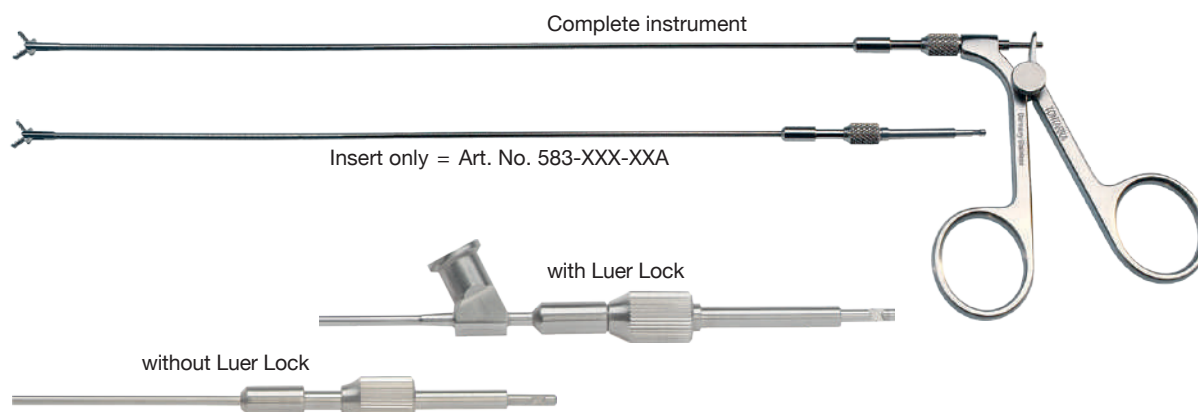
FLEXIBLE INSTRUMENTS ► FL 600 mm

Description	5 Fr.	4 Fr.	3 Fr.	Information
BIOPSY FORCEPS ► flexible; oval; complete	583-310-16	-	583-310-10	 double action
INSERT only	583-310-16A	-	583-310-10A	
SCISSORS ► flexible; complete	583-320-16	-	-	 single action
INSERT only	583-320-16A	-	-	
BIOPSY FORCEPS flexible; oval; serrated	583-350-16	-	-	 double action
INSERT only	583-350-16A	-	-	
GRASPING FORCEPS ► flexible	583-360-16	-	-	 double action
INSERT only	583-360-16A	-	-	
GRASPING FORCEPS ► Alligator jaw	583-380-16	-	583-360-10	 double action
INSERT only	583-380-16A	-	583-360-10A	
GRASPING FORCEPS ► flexible; serrated	583-370-16	583-370-12	-	 double action
INSERT only	583-370-16A	583-370-12A	-	
GRASPING FORCEPS ► for stone fragments	-	583-473-12	-	 double action
INSERT only	-	583-473-12A	-	
TENACULUM FORCEPS ► for large fragments	-	583-380-12	-	 double action
INSERT only	-	583-380-12A	-	
HANDLE only (spare part)	583-305-00		for all urologic micro instruments with Art. No's. 583-XXX-XX	

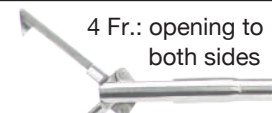


URETERO-RENOSCOPY

► 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	 double action
INSERT only	583-410-16LLA	583-410-16A	583-410-12LLA	583-410-12A	
ALLIGATOR FORCEPS	583-460-16LL	583-460-16	583-460-12LL	583-460-12	 double action
INSERT only	583-460-16LLA	583-460-16A	583-460-12LLA	583-460-12A	
FOREIGN BODY FORCEPS; long jaw part Ø 1.7 mm; spoon serrated	583-472-16LL	583-472-16	583-472-12LL	583-472-12	 double action
INSERT only	583-472-16LLA	583-472-16A	583-472-12LLA	583-472-12A	
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 5 Fr.: double action
INSERT only	583-480-16LLA	583-480-16A	*583-480-12LLA	*583-480-12A	
MICRO SCISSORS/ URETER SLITTING SHEAR Ø 1.7 mm; upwards cutting	583-490-16LL	583-490-16	-	-	 single action
INSERT only	583-490-16LLA	583-490-16A	-	-	
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.



NEPHROSCOPY



NEPHROSCOPY

► Schematic overview

Ø 2.8 mm nephroscopes for 24 Fr. or 26 Fr. nephroscopy sheaths
(FL 200 mm or 250 mm; working channel Ø 5.0 mm)

Nephroscope;
angled; 45°



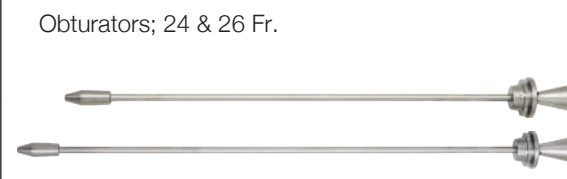
Nephroscope;
double angled;
90°



Nephroscopy Sheaths; 24 & 26 Fr.;
200/250 mm



Obturers; 24 & 26 Fr.



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

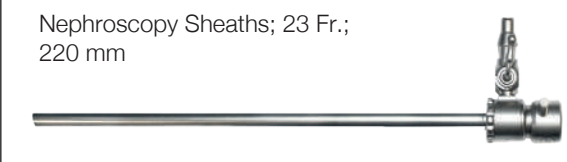
Nephroscope;
angled; 45°



Nephroscope;
double angled;
90°



Nephroscopy Sheaths; 23 Fr.;
220 mm



Obturator

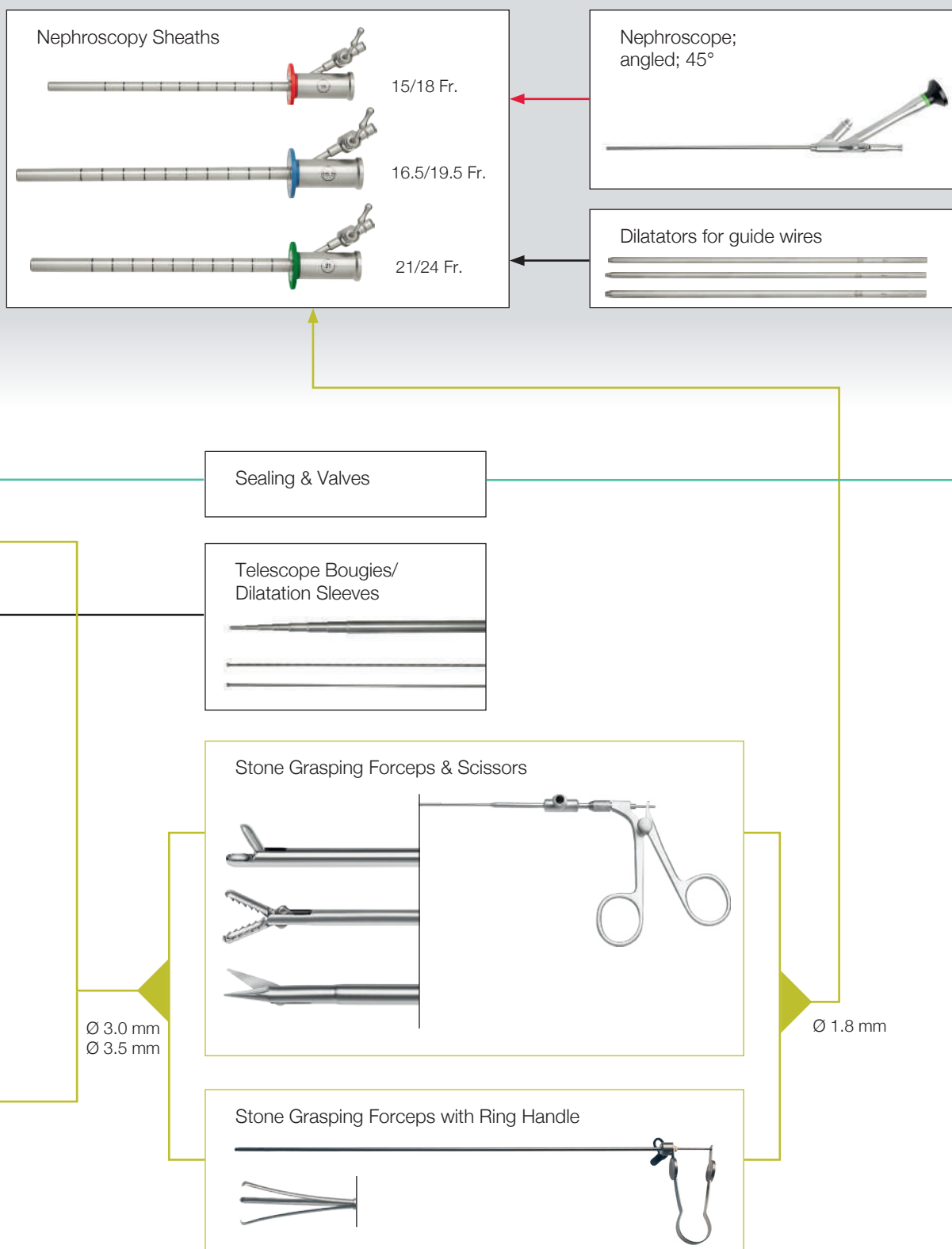


NEPHROSCOPY



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.

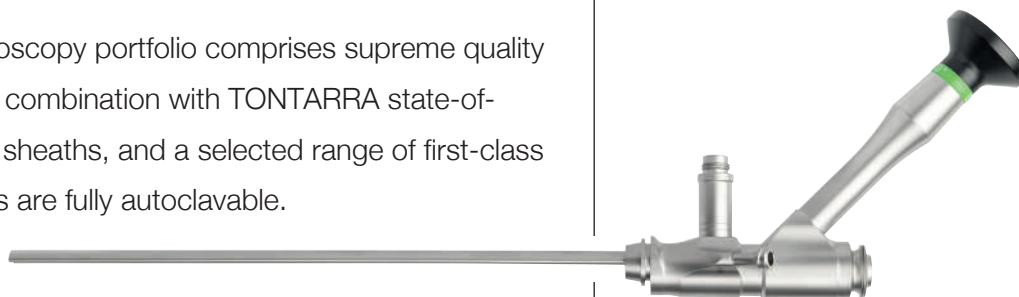
Mini-Compact nephroscope for 18 Fr./19.5 Fr./24 Fr. nephroscopy sheaths
(FL 220 mm; working channel Ø 2.2 mm)





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

► 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 250 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



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:



- optical sharpness
- high resolution
- optimal colour synchronization



MICRO INSTRUMENTS

for "classic" and mini-nephroscopy

Stone Grasping Forceps –
micro-scissors – stone retrievers



ACCESSORIES

for "classic" and mini-nephroscopy

► Dilatation



► Sealing

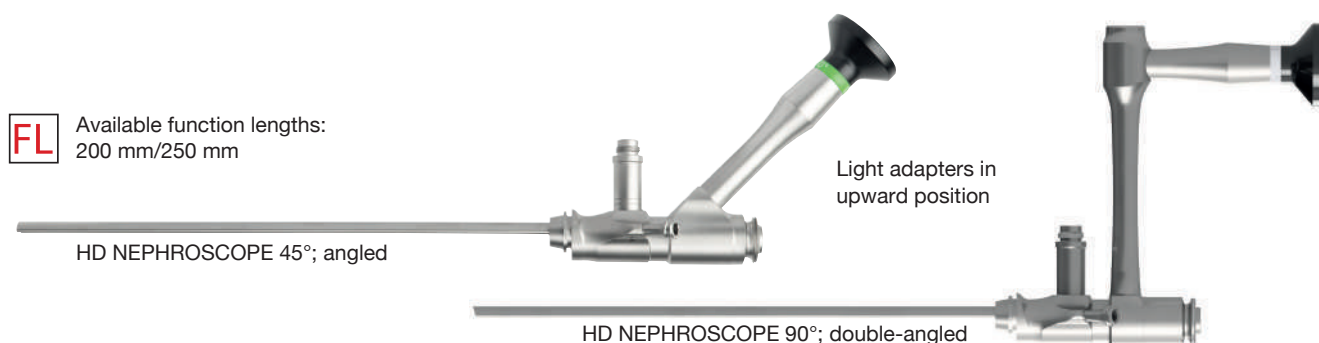
NEPHROSCOPY

- ▶ HD Nephroscopes for 24/26 Fr. sheaths



24 Fr.
26 Fr.

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



HD NEPHROSCOPES Ø 2.8 mm

▶ working channel Ø 5 mm

➡ 24 Fr. 26 Fr.

Description	Function length	Art. No.	Information
HD NEPHROSCOPE 45° angled	200 mm	601-130-45	Direction of view $\alpha=15^\circ$ Field of view $\beta=70^\circ \pm 5^\circ$ Outer diameter 19 Fr. Polygone tube design Instrument port Optics Light fibres Fluid channel Working channel
HD NEPHROSCOPE 45° angled	250 mm	601-140-45	
HD NEPHROSCOPE 90° double-angled	200 mm	601-130-90	
HD NEPHROSCOPE 90° double-angled	250 mm	601-140-90	

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

NEPHROSCOPY

► ACCESSORIES for HD Nephroscopes (for 24/26 Fr. sheaths)



24 Fr.
26 Fr.

ACCESSORIES for HD Nephroscopes Ø 2.8 mm ► working channel Ø 5 mm

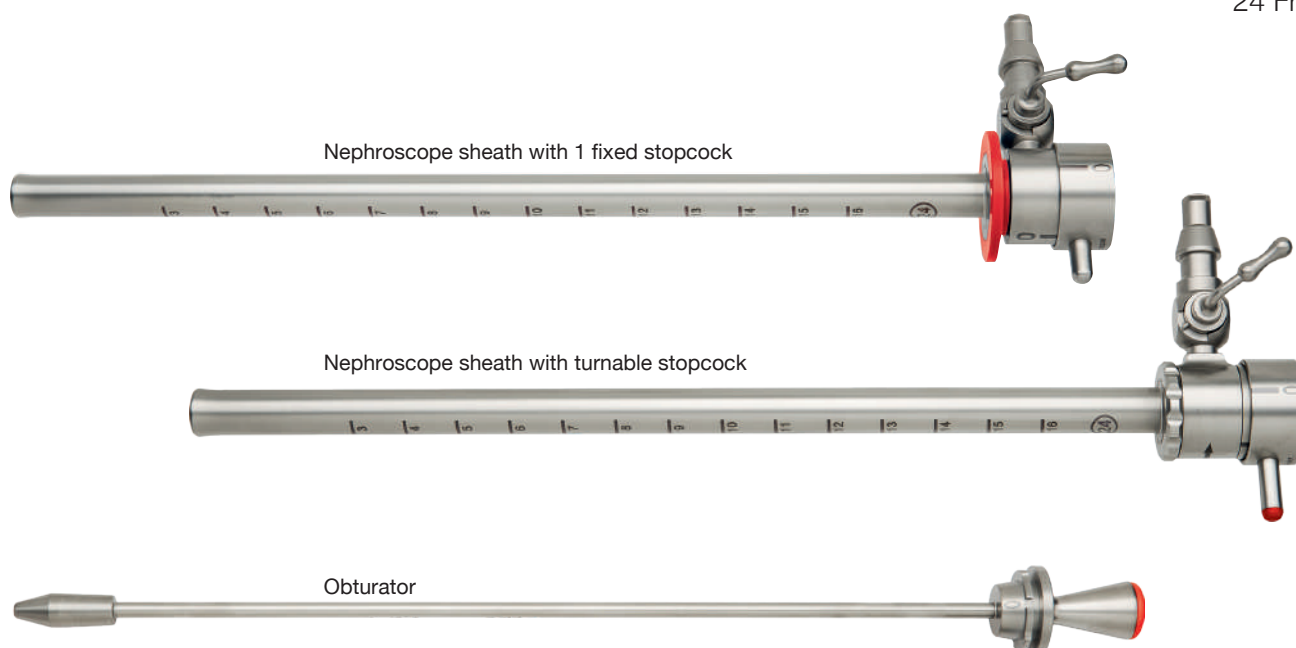
Description	Art. No.	Information
Instrument Bridge for Nephroscopes 601-130-45, 601-130-90, 601-140-45 and 601-140-90	601-120-12	
ADAPTER for use of TONTARRA Nephroscopes (601-140-45 and 601-140-90) with 26 Fr. resectoscope outer sheath 630-209-06 or 630-209-07	630-209-99	
SILICONE SEAL Ø 20/2; blue for use with nephroscopes 601-130-45, 601-130-90, 601-140-45 and 601-140-90. 10 pcs./unit	601-150-08	
SILICONE SEAL Ø 15/1; blue for use with instrument bridge 601-120-12, 10 pcs./unit	601-150-09	

NEPHROSCOPY

- Nephroscopy sheaths & obturators 24 Fr.



24 Fr.



NEPHROSCOPY SHEATH SYSTEM; 24 Fr.

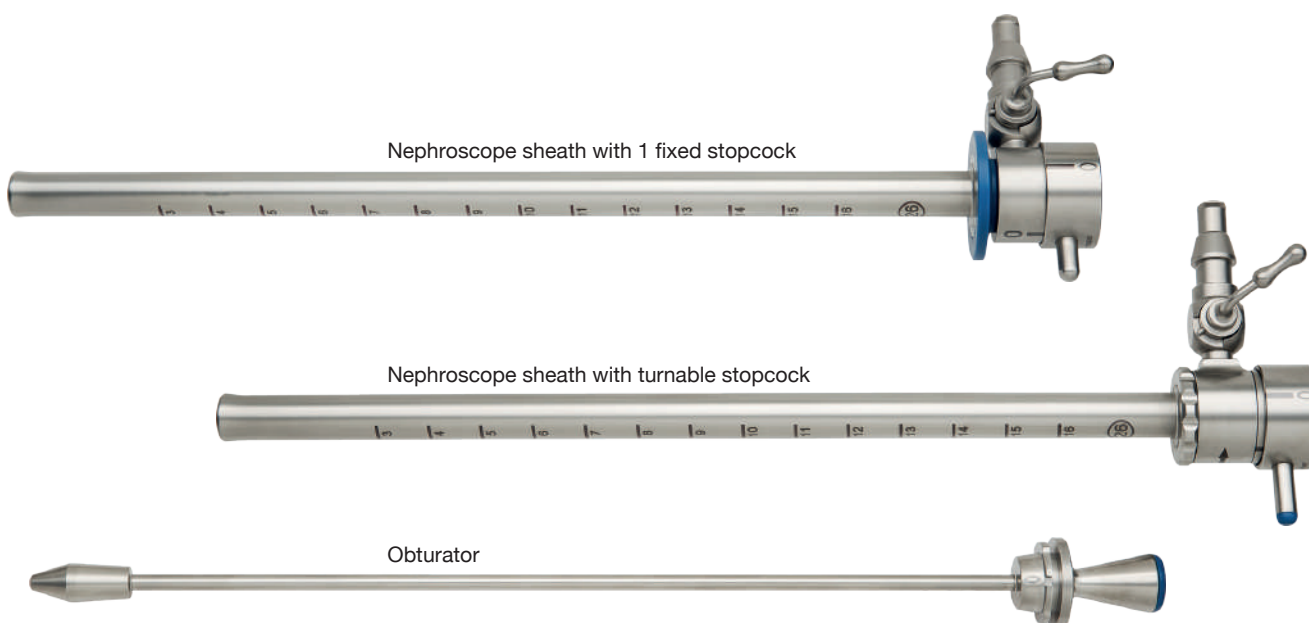
Description	■ 200 mm	■ 250 mm	□ 264 mm*
NEPHROSCOPE SHEATH 1 x fixed stopcock			
	630-420-12	630-420-52	630-420-32
NEPHROSCOPE SHEATH Turnable stopcock			
	630-420-14	630-420-54	630-420-34
OBTURATOR hollow			
	630-420-17	630-420-57	630-420-37
Recommended nephroscopes: 601-130-45, 601-140-45, 601-130-90, 601-104-90 * Compatibility to K. Storz nephroscopes with "25 cm length".			

NEPHROSCOPY

- Nephroscopy sheaths & obturators 26 Fr.



26 Fr.



NEPHROSCOPY SHEATH SYSTEM; 26 Fr.

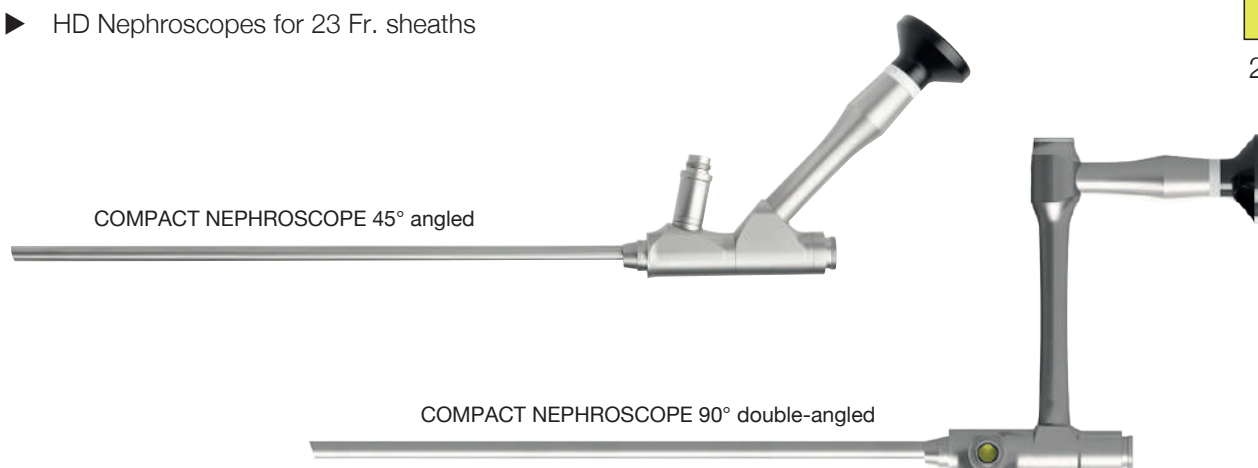
Description	■ 200 mm	■ 250 mm	■ 264 mm*
NEPHROSCOPE SHEATH 1 x fixed stopcock			
	630-420-22		
NEPHROSCOPE SHEATH Turnable stopcock			
	630-420-24	630-420-64	630-420-44
OBTURATOR hollow			
	630-420-27	630-420-67	630-420-47
Recommended nephroscopes: 601-130-45, 601-140-45, 601-130-90, 601-104-90 * Compatibility to K. Storz nephroscopes with "25 cm length".			

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	Direction of view $\alpha=15^\circ$ Field of view $\beta=80^\circ \pm 5^\circ$ Optics Light fibres Working channel Outer diameter 18.8 Fr. Oval tube design
COMPACT NEPHROSCOPE 90° double-angled	601-135-90	
Instrument Bridge for Nephroscopes 601-135-45 and 601-135-90	601-120-10	
SILICONE SEAL Ø 15/1; blue for use with instrument bridge 601-120-12, 10 pcs./unit	601-150-09	

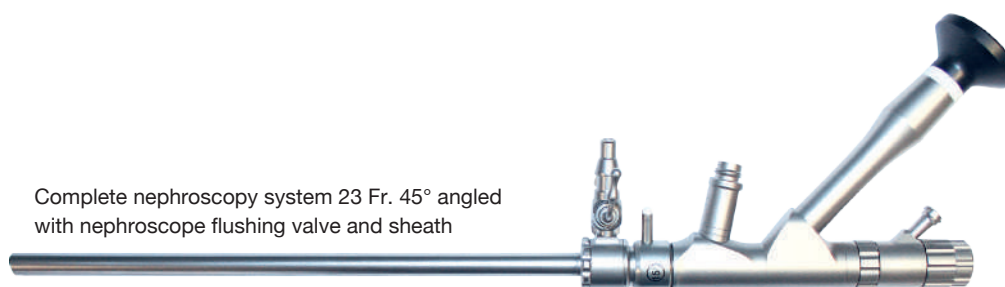
- ▶ ACMI®-Wolf®-Storz® and Olympus® light port adapters & eye piece according to DIN58015
- ▶ Autoclavable
- ▶ Sapphires at the distal and proximal end

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

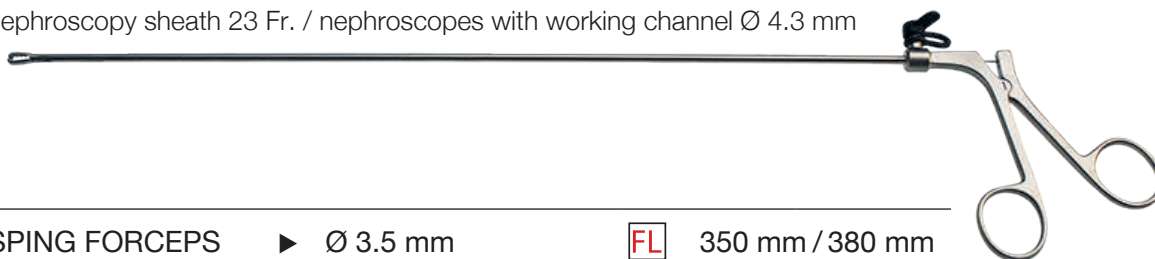
▶ for 26 Fr./24 Fr./23 Fr. nephroscopy systems

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	

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.	Art. No.	
EXCISION FORCEPS		350 mm	380 mm	
		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	

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.



HD MINI COMPACT NEPHROSCOPE

MINI COMPACT NEPHROSCOPE

- ▶ working channel Ø 2.2 mm

➡ 18 Fr./19.5 Fr./24 Fr.
FL 220 mm

Description	Art. No.	Information
HD MINI COMPACT NEPHROSCOPE; direction of view 0°; 40.000 pixels; working length 220mm; shaft Ø 4,0mm (12 Fr.); working channel Ø 2,2mm (6,6 Fr.), with fix instrument bridge and integrated stopcock	601-145-30	Direction of view $\alpha=0^\circ$ Optic Light fibres Working channel Round tube design Outer diameter 12 Fr.
STOP COCK Ø 3.5 mm; black; for mini-nephroscope 601-145-30	601-150-11	
SPRING CAP for mini-nephroscope 601-145-30	601-150-10	
DOME VALVE 052 for mini-nephroscope 601-145-30; Silicone transparent; Material: ML151VMQ; 10 pcs./unit	601-160-02	
BACKUP SEAL 052 for mini-nephroscope 601-145-30; Silicone transparent; Material: ML151VMQ; 10 pcs./unit	601-160-03	

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

MINI NEPHROSCOPY

- ▶ Nephroscopy Sheaths
- ▶ Dilators



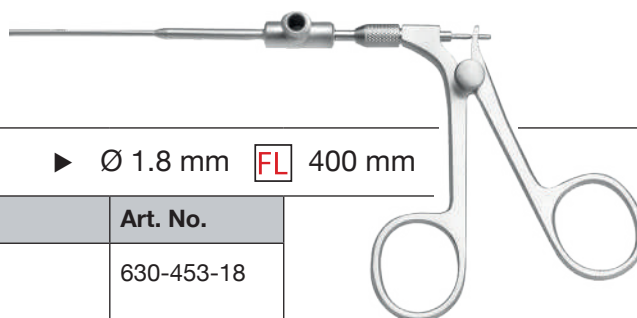
15/18.5 Fr.
16.5/19.5 Fr.
21/24 Fr.

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 CHANNELS 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	

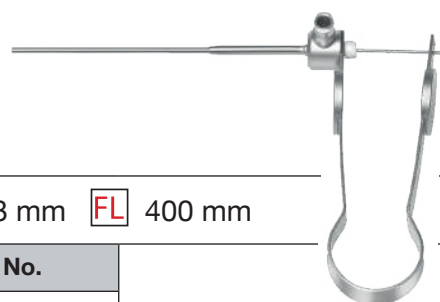
MINI-NEPHROSCOPY

► Micro tools for percutaneous nephroscopes



STONE GRASPING FORCEPS & MICRO SCISSORS ► Ø 1.8 mm **FL** 400 mm

Description		Art. No.	
GRASPING FORCEPS cup; serrated; Ø 1.8 mm; FL 400 mm; with irrigation adapter		630-453-18	with ring handle
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

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



PEDIATRIC UROLOGY



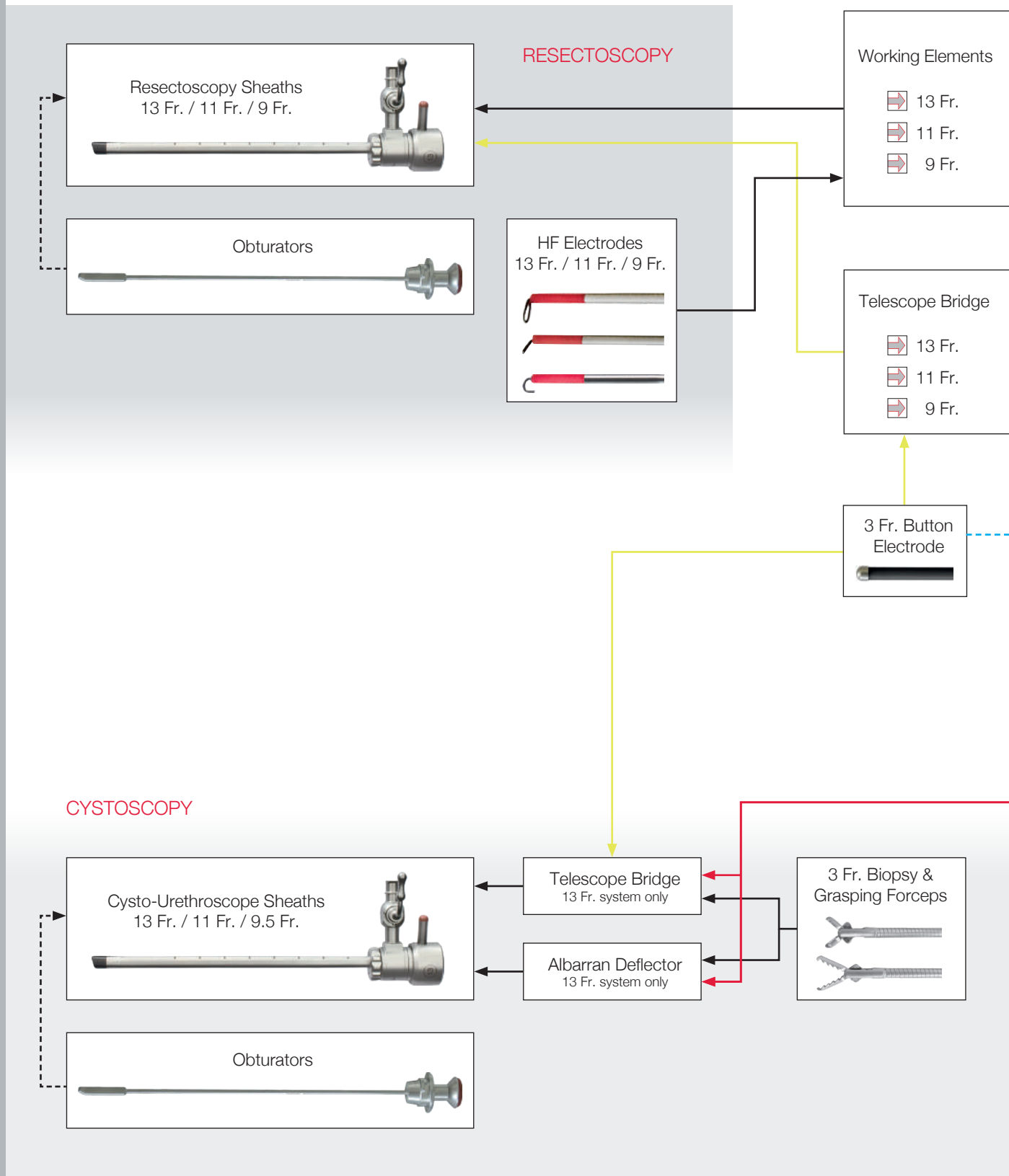
- ◀ 13 Fr.
- ◀ 11 Fr.
- ◀ 9/9.5 Fr.
- ◀ 7.5 Fr.

PEDIATRIC UROLOGY

► Schematic overview



PEDIATRIC UROLOGY

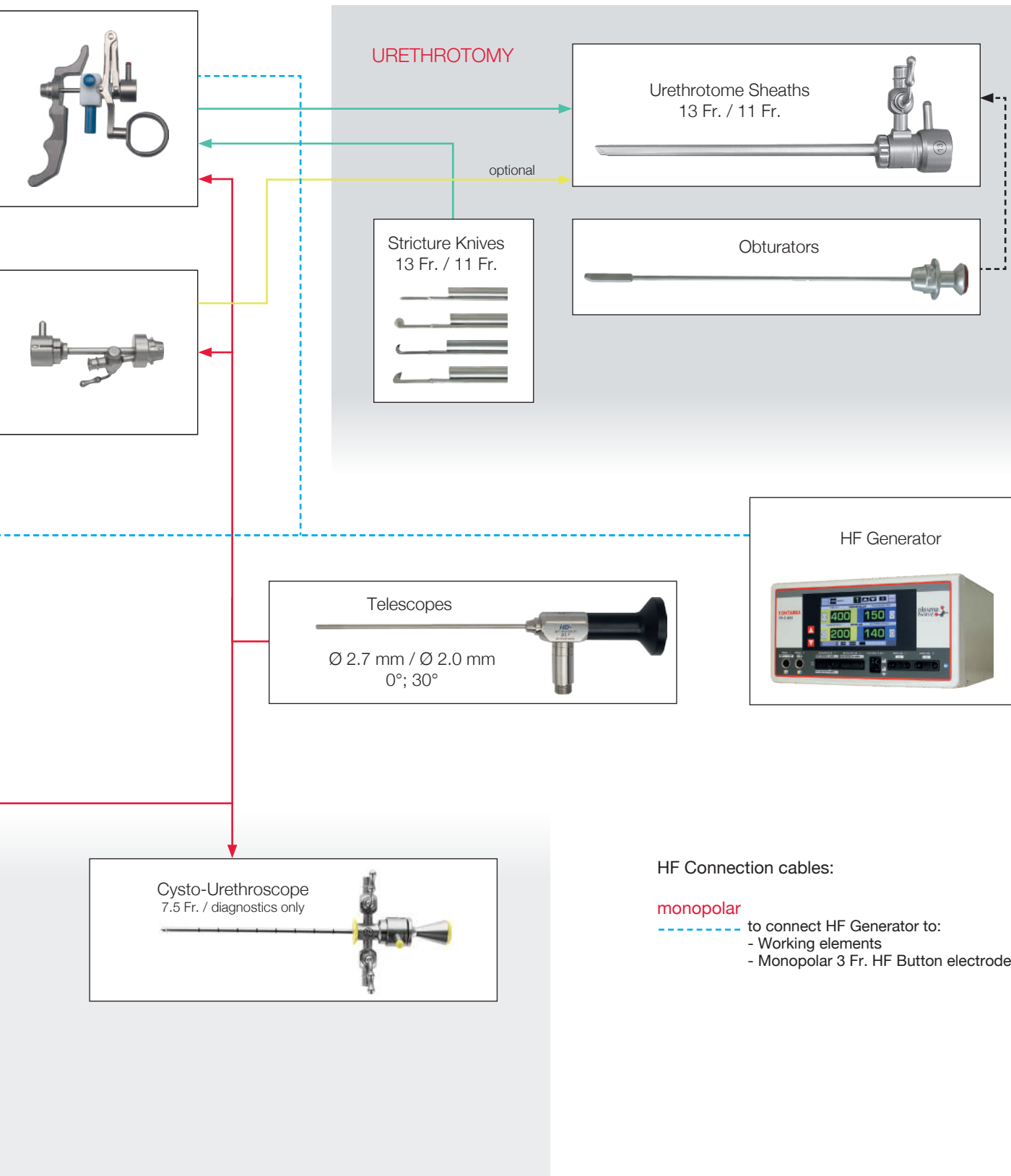




Systems and components for Ø 2.7 mm telescopes

Systems and components for Ø 2.0 mm telescopes

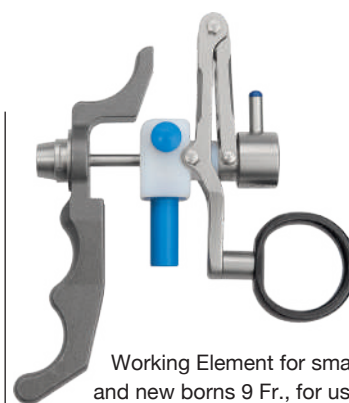
Systems and components for Ø 1.9 mm telescopes





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

FOR Ø 2.7 mm TELESCOPES:

► SYSTEMS FOR 13 Fr. (■)

- Cysto-Urethroscopy
- Resectoscopy
- Urethrotomy

FOR Ø 2.0 mm TELESCOPES:

► SYSTEMS FOR (■ | ■ | ■)

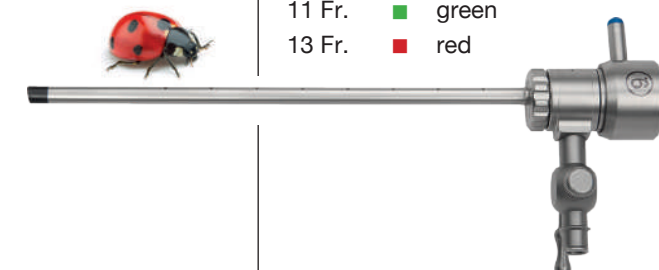
- Cysto-Urethroscopy (11 & 9.5 Fr.)
- Cysto-Urethroscopy (7.5 Fr.)
- Resectoscopy (11 & 9 Fr.)
- Urethrotomy (11 Fr.)

► RANGE OF HF ELECTRODES

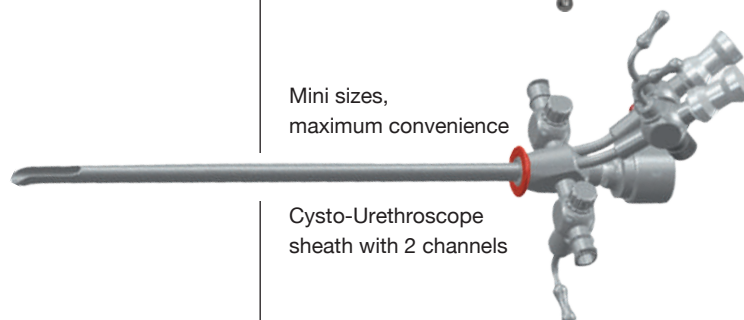
for all TONTARRA pediatric resectoscopy systems (■ | ■ | ■)



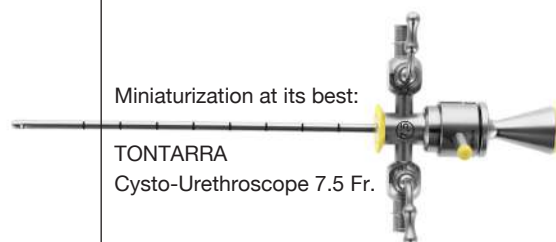
- | | | |
|-----------|---|--------|
| 7.5 Fr. | ■ | yellow |
| 9/9.5 Fr. | ■ | blue |
| 11 Fr. | ■ | green |
| 13 Fr. | ■ | red |



Mini sizes,
maximum convenience



Cysto-Urethroscope
sheath with 2 channels



Miniaturization at its best:

TONTARRA
Cysto-Urethroscope 7.5 Fr.



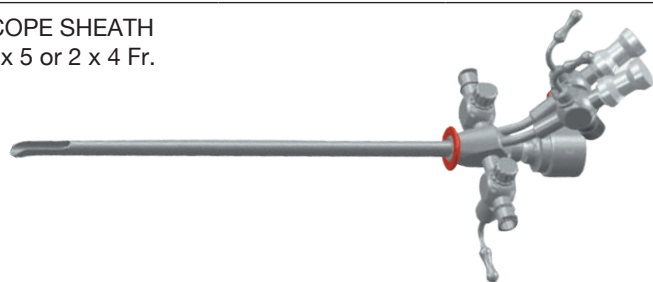
PEDIATRIC CYSTO-URETHROSCOPY

► 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. 	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

* Overview of cables in chapter „Accessories“.

PEDIATRIC CYSTO-URETHROSCOPY

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

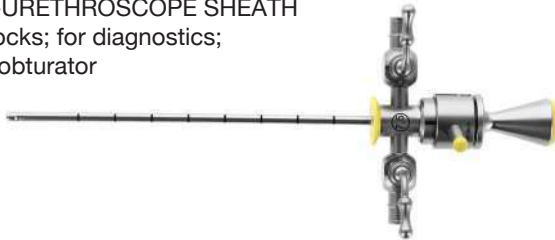


11 Fr.
9.5 Fr.
7.5 Fr.

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.; without 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 2.0 mm / 187 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	 0° Ø 2.0 mm 601-102-00
OBTURATOR for Art. No. 630-507-07	630-505-07	

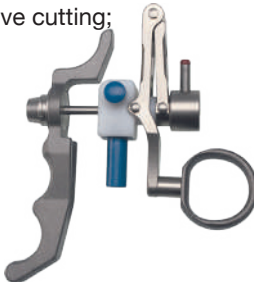
PEDIATRIC RESECTOSCOPY

- ▶ 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	 0° Ø 2.7 mm 601-203-00HD	 0° Ø 2.0 mm 601-102-00	

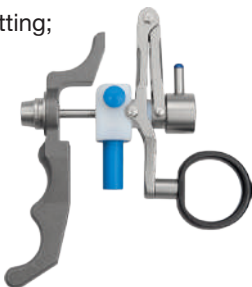
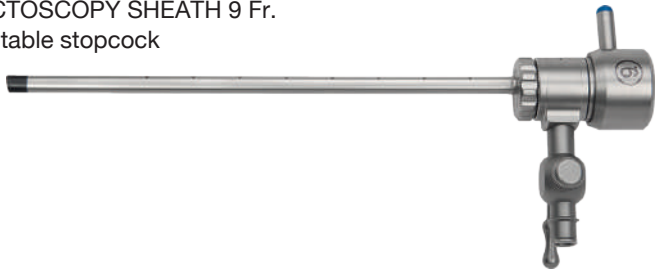
PEDIATRIC RESECTOSCOPY

- 9 Fr. Resectoscopy System for Ø 2.0 mm/187 mm telescopes



9 Fr.

► 9 Fr. RESECTOSCOPY SYSTEM ► for Ø 2.0 mm/187 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	 0° Ø 2.0 mm 601-102-00
RESECTOSCOPY SHEATH 9 Fr. with rotatable stopcock 	630-512-13	
STANDARD OBTURATOR 	630-512-14	
TELESCOPE BRIDGE 	630-230-09	

PEDIATRIC RESECTOSCOPY

- ▶ 13 Fr. Resectoscopy System for Ø 2.7 mm/187 mm telescopes
- ▶ 9 Fr./11 Fr. Resectoscopy System for Ø 2.0 mm/187 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 non-conductive solution (Sorbitol, Mannitol, Glycine)

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		 0° Ø 2.7 mm 601-203-30HD	 0° Ø 2.0 mm 601-102-00	 0° Ø 2.0 mm 601-102-00

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

Available for following units: Erbe/Storz; Ø 5.0 mm Valleylab; Conmed Ø 8.0 mm; Bowa; 8.0 mm TONTARRA mod. PWT-400; Equipment with banana plug Ø 4.0 mm	3.0 m 582-531-02 582-532-03 582-533-04	 Plug instrument side	For further information and pictures see overview cables in chapter „Accessories“.
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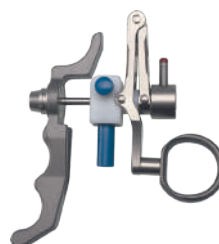
PEDIATRIC VISUAL URETHROTOMY

- ▶ 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 newborns.



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 2 turnable stopcocks; 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	13 Fr.	11 Fr.	
STRICTURE KNIFE ▶ straight 	630-515-50	630-516-50	
STRICTURE KNIFE ▶ round 	630-515-55	630-516-55	
STRICTURE KNIFE ▶ sickle shaped 	630-515-60	630-516-60	
STRICTURE KNIFE ▶ hook shaped 	630-515-65	630-516-65	



HF GENERATOR & CONNECTION CABLES



HF GENERATOR PLASMA WAVE

► PWT-400



HF Generator for electrical surgery PWT-400

SMART - SAFE - POWERFUL

Many options – one device.



SMART

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

SAFE

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

POWERFUL

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

HYBRID RESECTOSCOPY SYSTEMS

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

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



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



Twin foot-switch

HF connection cables for PWT-400

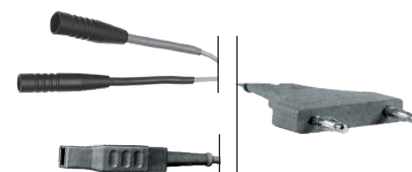
HF-connection cables **monopolar**

3 m: Art. No. 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

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(PWT-400)
TWIN FOOT-SWITCH 	540-284-50

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 to HF generator

Available for following units:	3.0 m	Instrument-side	Unit-side
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		

HF CONNECTION CABLES; NEUTRAL ELECTRODES

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

HF CONNECTION CABLES

- Bipolar HF connection cables



HF CONNECTION CABLES; **BIPOLAR** ► to connect working element to HF generator;
bipolar mode 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 with multi- contact connector; Karl Storz mod. Autocon II 400	3.0 m	287-220-30BR		
Erbe mod. VIO 3 with MF-U socket	4.5 m	287-235-30BR		
Bowa mod. ARC 350 & 400	4.5 m	287-230-30BR		

HF CONNECTION CABLES; **BIPOLAR** ► to connect semi-flexible **bipolar** HF electrodes
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		



ACCESSORIES

ACCESSORIES

► Dilating Bougies; Catheter Introduction; Penis Clamps



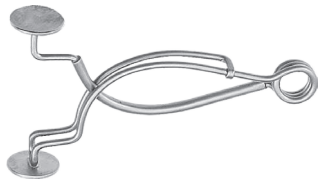
VAN BUREN; DILATING BOUGIES ► 275 mm

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

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 evacuator with 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 sheath connection	Glass cylinder only
		For your convenience we also offer the cylinder as spare part.
50 ml	582-410-05	582-410-05Z
75 ml	582-410-07	582-410-07Z
100 ml	582-410-10	582-410-10Z
150 ml	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 with special WATER STOP VALVE; 10 pc. per box	3-10 Fr. 	499-198-00
SEALING CAP for instrument channel; 10 pc. per box		499-199-00
SHAFT SEALING ADAPTER for use in female urethroscopy		582-090-00

ACCESSORIES

► Light Guide Cables & Connectors



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 <i>careful w/Xenon light!</i>	for all cold light sources (excellent light transmission)		
		optimized for XENON	optimized for LED	
Sizes	Art. No.'s			
Ø 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/HSW/Dyonics snap	540-880-13	
ACMI/British/Codman	540-890-01		ACMI/British/Codman	540-880-01	

LIGHT GUIDE ADAPTERS [spare parts]

Description	Art. No.		Description	Art. No.	
RICHARD WOLF Light guide adapter	601-900-10		Universal Light guide adapter ► 90° angled	601-900-15	
STORZ/OLYMPUS Light guide adapter	601-900-00				



ACCESSORIES

- ▶ Maintenance; storage & sterilization
- ▶ Protection

MAINTENANCE; STORAGE & STERILIZATION

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

PROTECTION

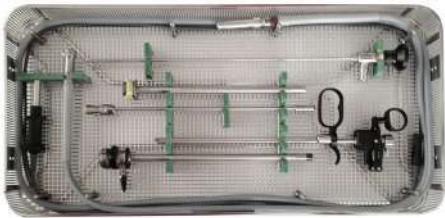
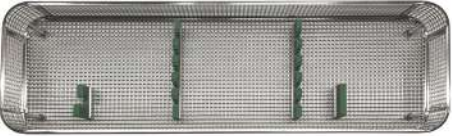
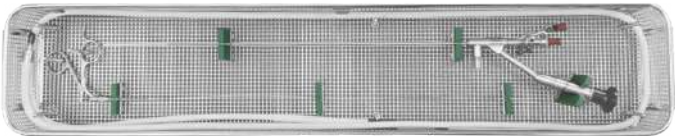
Description		Art. No.
PROTECTING SLEEVE FOR ALL TELESCOPES ▶ easy handling; ▶ up to Ø 5.5 mm ▶ reusable ▶ Plastic sleeve		590-000-01 (10 pcs./box)
PROTECTING SLEEVE for ELECTRODES for storage and sterilization for up to 8 electrodes, reusable		590-000-03

ACCESSORIES

► Wire Baskets



WIRE BASKETS

Description	Art. No.
WIRE BASKET WITH LID FOR RESECTOSCOPY SETS ► 480x240x50 mm 	CBMO/74TRP
WIRE BASKET WITH LID FOR SCOPE AND SHEATHS ► 480x150x50 mm 	CBMO/66/1RES
WIRE BASKET WITH LID FOR SCOPE AND SHEATHS ► 480x150x50 mm 	CBMO/66/1K
WIRE BASKET FOR GUBBINI SYSTEM ► 480x245x80 mm 	582-150-60GU
WIRE BASKET FOR URETERORENOSCOPES; ► 750x150x80 mm 	260-690-01

ACCESSORIES

- Stopcock handle and nut



SPARE PART SET: STOPCOCK HANDLE AND NUT

Description	Art. No.
SPARE PART SET MIDDLE : stopcock handle and nut for stopcock handle 	087-940-03
SPARE PART SET BIG : stopcock handle and nut for stopcock handle 	087-940-04



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630-202-24	32	630-304-01	41	630-430-12	76	630-515-50	90
630-202-27	36	630-304-21	41	630-430-15	76	630-515-55	90
630-204-06	28	630-309-01	41	630-430-18	76	630-515-60	90
630-204-07	28	630-309-21	41	630-430-21	76	630-515-65	90
630-204-08	35	630-315-19	41	630-430-24	76	630-516-13	90
630-204-26	28	630-325-19	41	630-430-27	76	630-516-14	90
630-204-26	28	630-335-10	40	630-430-30	76	630-516-50	90
630-204-28	35	630-335-10B	40	630-432-05	76	630-516-55	90
630-209-06	28	630-335-60	40	630-432-10	76	630-516-60	90
630-209-07	28	630-335-60B	40	630-435-15	79	630-516-65	90
630-209-08	35	630-340-00	42	630-435-20	79	CBMO/66/1K	100
630-209-26	28	630-340-00B	42	630-435-25	79	CBMO/66/1RES	100
630-209-26	28	630-340-00B-S	42	630-435-30	79	CBMO/74TRP	100
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630-209-99	72	630-340-05B	42	630-435-40	79	EMTO/FCS-5523R	7
630-215-24	29	630-340-05B-S	42	630-435-45	79	EMTO/FURS-2812R	7
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630-220-27	35	630-340-10B-S	42	630-451-35	77		
630-225-24	29	630-340-15	42	630-451-38	77		
630-225-27	35	630-340-15B	42	630-452-35	77		
630-230-09	88	630-340-15B-S	42	630-452-38	77		
630-230-24	29	630-340-20	42	630-453-18	80		
630-230-27	35	630-350-05	38	630-454-18	80		
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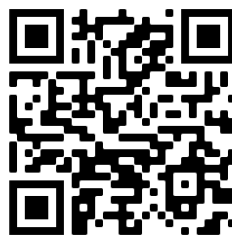
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