

TONTARRA

ENDOSCOPY



UROLOGY



Farateb Jorrah





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.



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



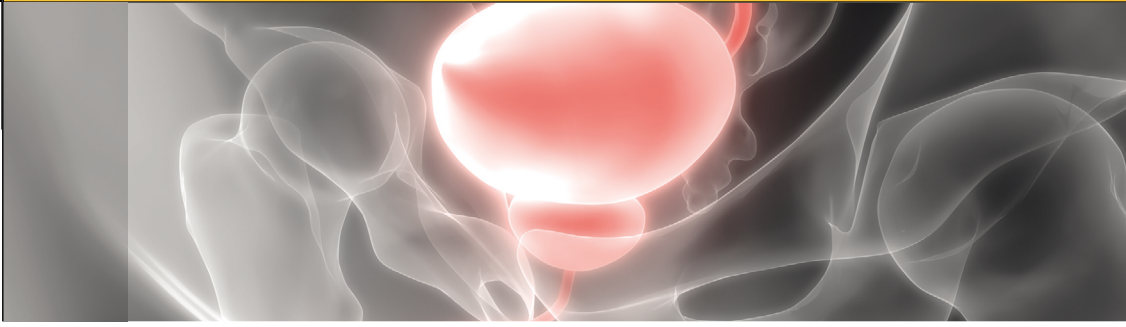
Drop style sheath



For use with laser



Continuous flow



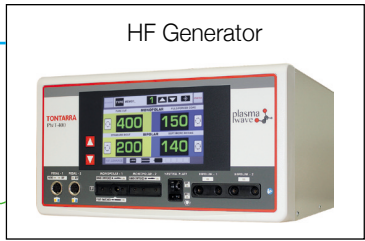
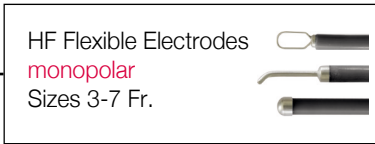
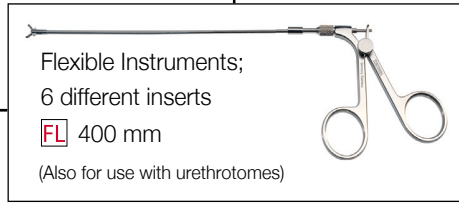
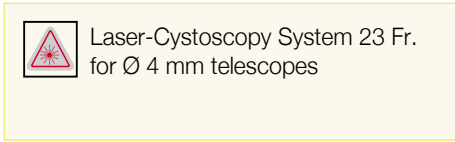
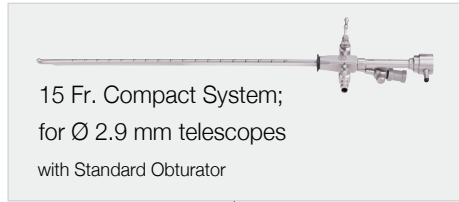
CYSTOSCOPY

◀ 17 - 25 Fr.

Lithotripsy

◀ 24 - 25.5 Fr.

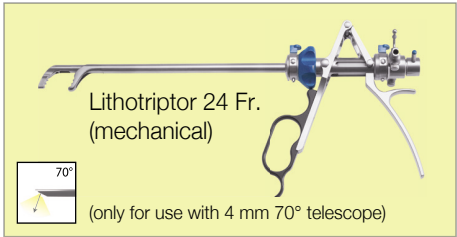
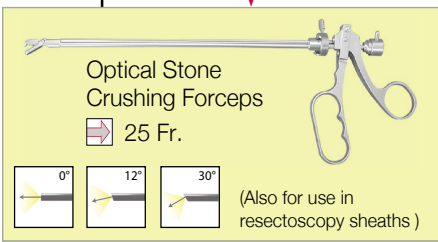
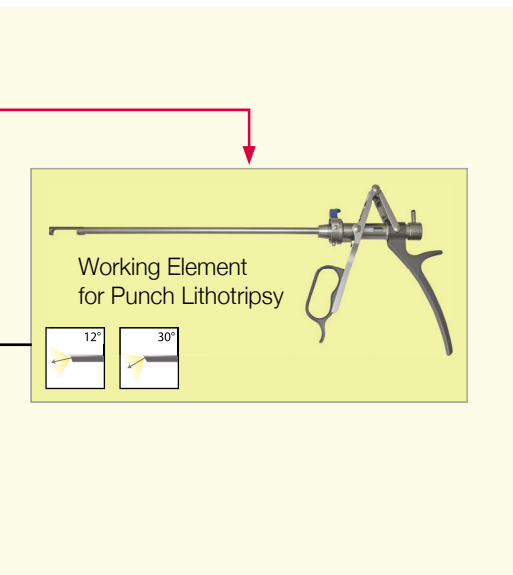
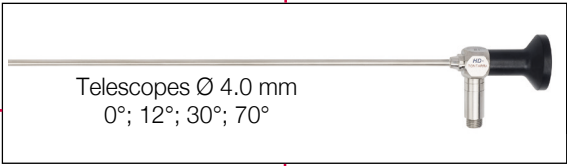




HF Connection cables (2 types):

monopolar
to connect flexible
monopolar HF electrodes
to HF generator

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




CYSTO-URETHROSCOPY & LITHOTRIPSY

► Schematic overview

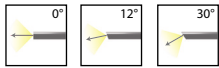
Schematic overview CYSTO-URETHROSCOPY & LITHOTRIPSY: Systems and components for Ø 4.0 mm & 2.9 mm telescopes

CYSTO-URETHROSCOPY


Cysto-Urethroscope Sheaths
Working channels 5 mm



Ø 4.0 mm / 17-25 Fr.
Ø 2.9 mm / 15.5 Fr.




Visual Obturators




Ø 4.0 mm / 17-25 Fr.
Ø 2.9 mm / 15.5 Fr.

Obturators



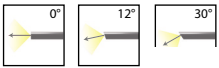
Ø 4.0 mm / 17-25 Fr.

Telescope Bridges

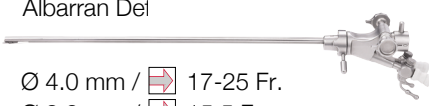


Ø 4.0 mm / 17-25 Fr.
Ø 2.9 mm / 15.5 Fr.

- without channel for diagnostics
- with 1 instrument channel 5 Fr.
- with 2 instrument channels 5 Fr.

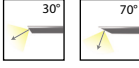


Albarran Del




Ø 4.0 mm / 17-25 Fr.
Ø 2.9 mm / 15.5 Fr.


- *: with 1 instrument channel
- ** with 2 instrument channels



Optical Forceps;
(for Ø 4.0 mm telescopes only)



(Also for use with resectoscopy sheaths)

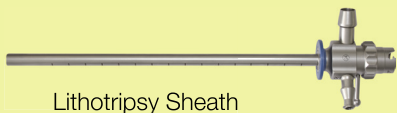
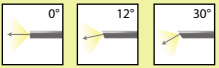


LITHOTRIPSY

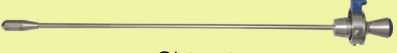
LITHOTRIPSY SYSTEM 25.5 FR.

4.0 mm telescopes


Lithotripsy Sheath

Obturator

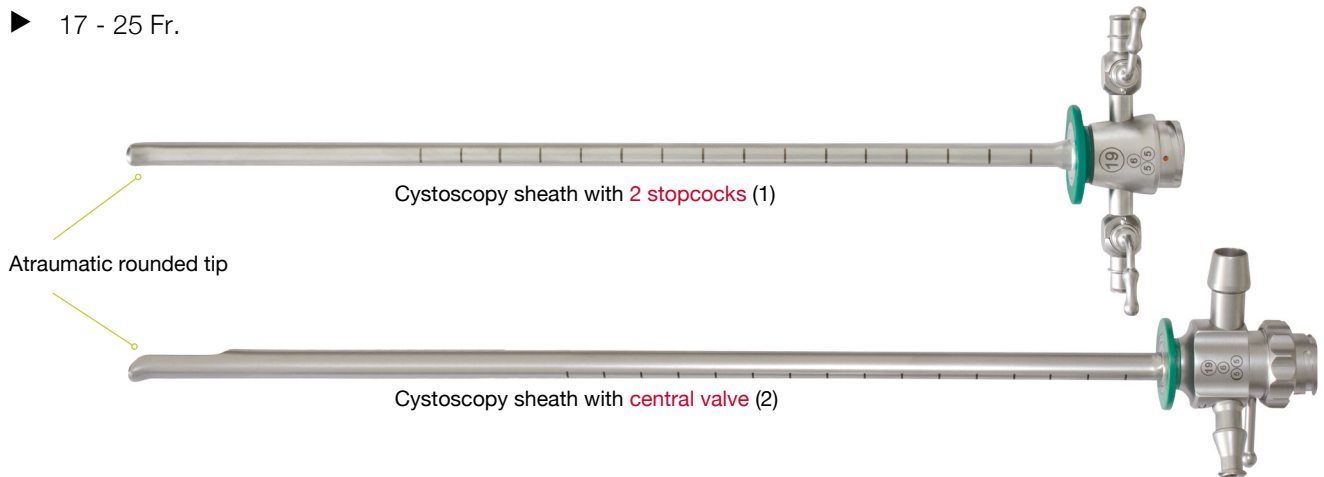


Telescope Bridge
for flexible instruments



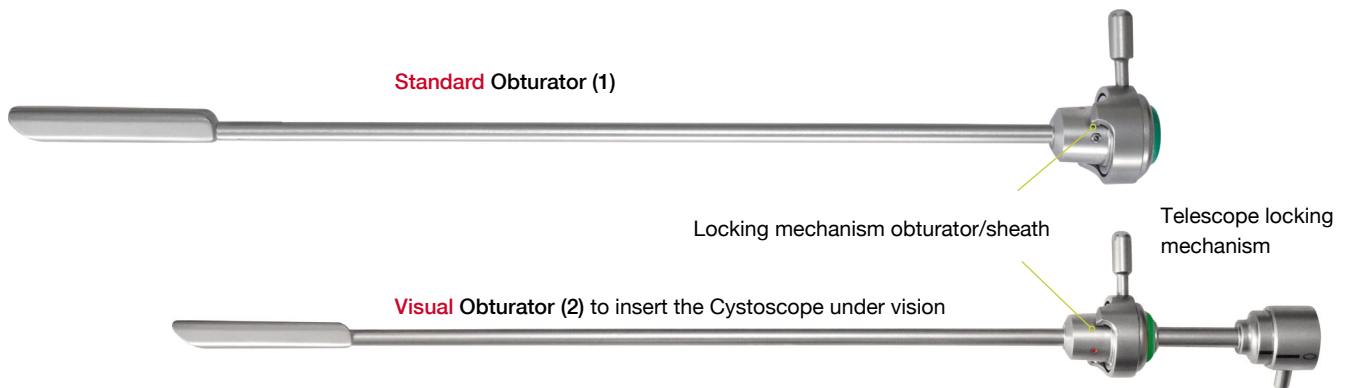
CYSTO-URETHROSCOPY

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



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

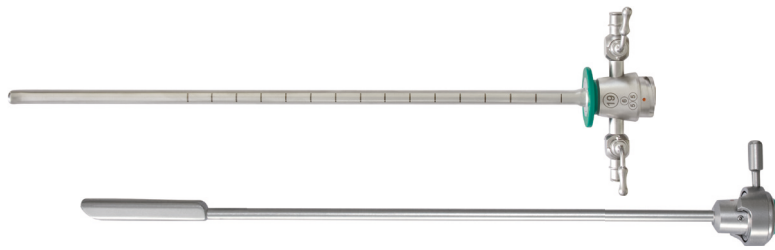
Size and colour		2 stopcocks (1)	1 central valve (2)	Information
17 Fr.	■ yellow	630-012-17	630-017-17	
19 Fr.	■ green	630-012-19	630-017-19	
21 Fr.	■ red	630-012-21	630-017-21	
23 Fr.	■ blue	630-012-23	630-017-23	
25 Fr.	□ white	630-012-25	630-017-25	



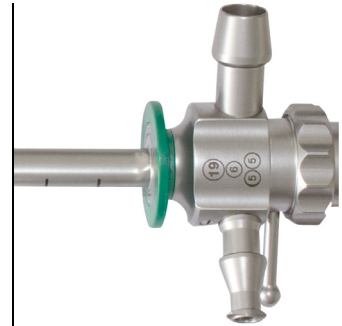
OBTURATOR FOR CYSTO-URETHROSCOPE SHEATH SYSTEM for Ø 4 mm telescopes

Size and colour		Standard (1)	Visual (2)	Information
17 Fr.	■ yellow	630-020-17	630-025-17	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	

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

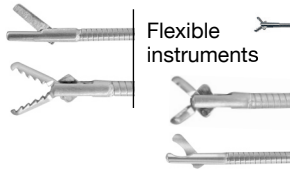
FOR Ø 4.0 mm TELESCOPES:

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

- ▶ Optical forceps



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



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

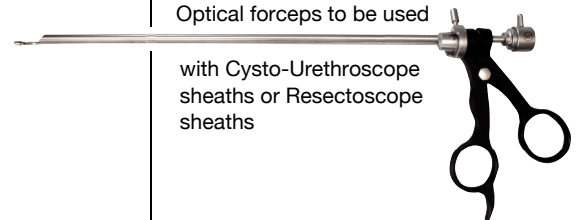
Selection of Mono- and bipolar electrodes (3/5/7 Fr.)

17 - 25 Fr. Cysto-Urethroscope Systems are available with standard stopcocks or with central valve. Also, TONTARRA offers standard and visual obturators for the different sizes of sheaths.

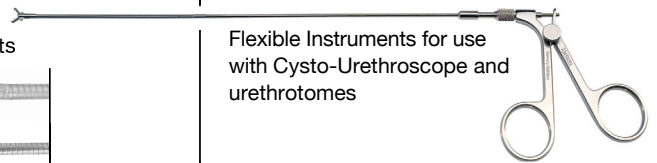
- | | | | | | |
|--------|---|--------|--------|---|-------|
| 17 Fr. |  | yellow | 21 Fr. |  | red |
| 19 Fr. |  | green | 25 Fr. |  | white |

Optical forceps to be used

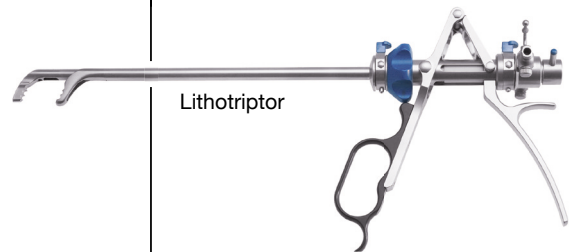
with Cysto-Urethroscope sheaths or Resectoscope sheaths



Flexible Instruments for use with Cysto-Urethroscope and urethrotomes



Lithotripter



Compact Cysto-Urethroscope



Monopolar flexible HF electrodes

Bipolar semi-rigid HF electrodes







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°).

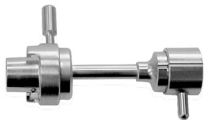



CYSTO-URETHROSCOPE SHEATHS in combination with Albarran Deflector

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

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

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

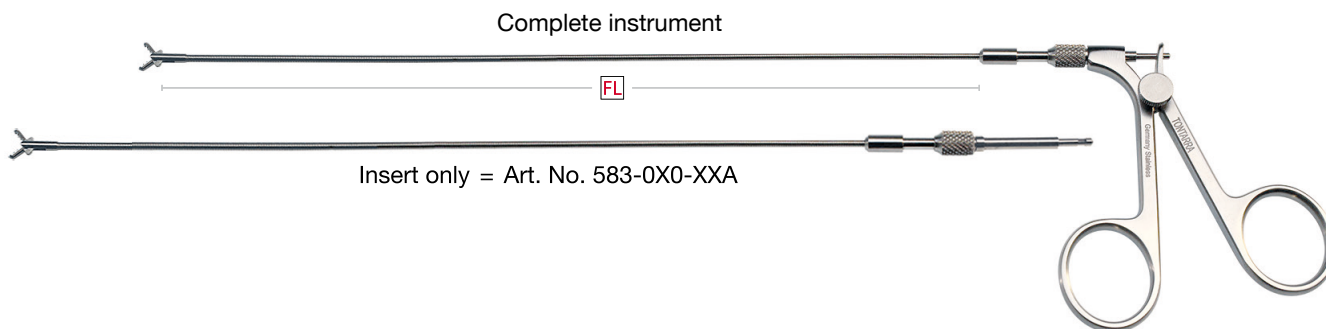
		
TELESCOPE BRIDGE for diagnostics only	TELESCOPE BRIDGE with 1 instrument channel	TELESCOPE BRIDGE with 2 instrument channels
630-030-00	630-030-01	630-030-02
 601-104-30HD, 601-104-30HD2 For adaption to the Cystoscope sheath in order to use insert the Telescope. The working channel(s) not only support 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






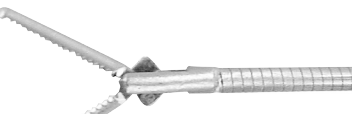
Size and colour		Channel size
17 Fr.	 yellow	1x 5 French
		2x 4 French
19 Fr.	 green	1x 6 French
		2x 5 French
21 Fr.	 red	1x 7 French
		2x 6 French
23 Fr.	 blue	1x 10 French
		2x 7 French
25 Fr.	 white	1x 12 French
		2x 8 French

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		

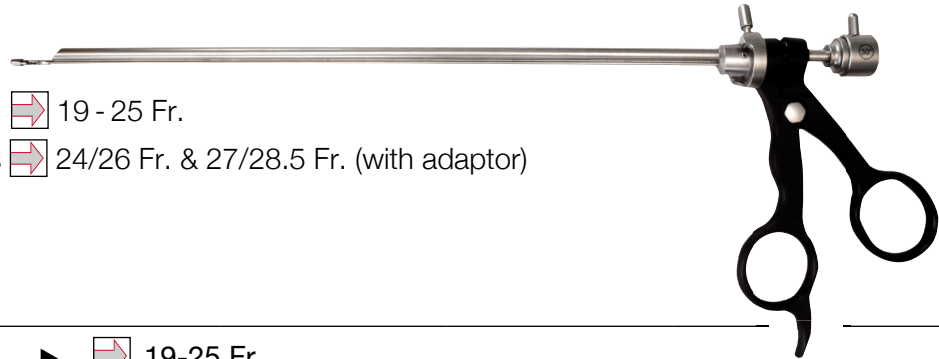
CYSTO-URETHROSCOPY

- ▶ 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-Urethrosopes  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
BIOPSY PUNCH ▶ optical 0°/12°	630-035-10		 601-104-30HD 601-104-30HD2
HOOK SCISSORS ▶ optical 0°/12°	630-035-20		
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		

LITHOTRIPSY

▶ Instrument system for Ø 4 mm telescopes

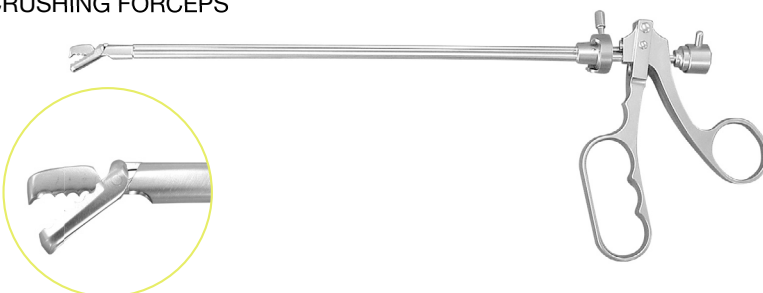







LITHOTRIPSY SYSTEM ▶ 25.5 Fr.

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



LITHOTRIPSY

► Instruments for Ø 4 mm telescopes

OPTICAL STONE CRUSHING FORCEPS ► 25 Fr.

Description	Art. No.	Information
<p>STONE CRUSHING FORCEPS</p> 	630-035-30	 601-104-12HD 601-104-12HD2  601-104-30HD 601-104-30HD2
<p>ADAPTOR for using stone crushing forceps (No. 630-035-30) with 26/28.5 Fr. outer resectoscope sheath</p> 	630-035-35	
<p>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.</p> <p>TO USE WITH:</p> <ul style="list-style-type: none"> · Cystoscopy sheaths  25 Fr. · Adapter to connect to resectoscopy outer sheaths  26 Fr.  28.5 Fr. 		

LITHOTRIPTOR (mechanical) ► 24 Fr.

Description	Art. No.	Information
<p>LITHOTRIPTOR</p> <ul style="list-style-type: none"> ► rotatable ► 2 stopcocks 	630-035-85	 601-104-70HD 601-104-70HD2
<p>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.</p>		



RESECTOSCOPY

Ø 4 mm

◀ 24/26 Fr.

◀ 27/28.5 Fr






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		
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.

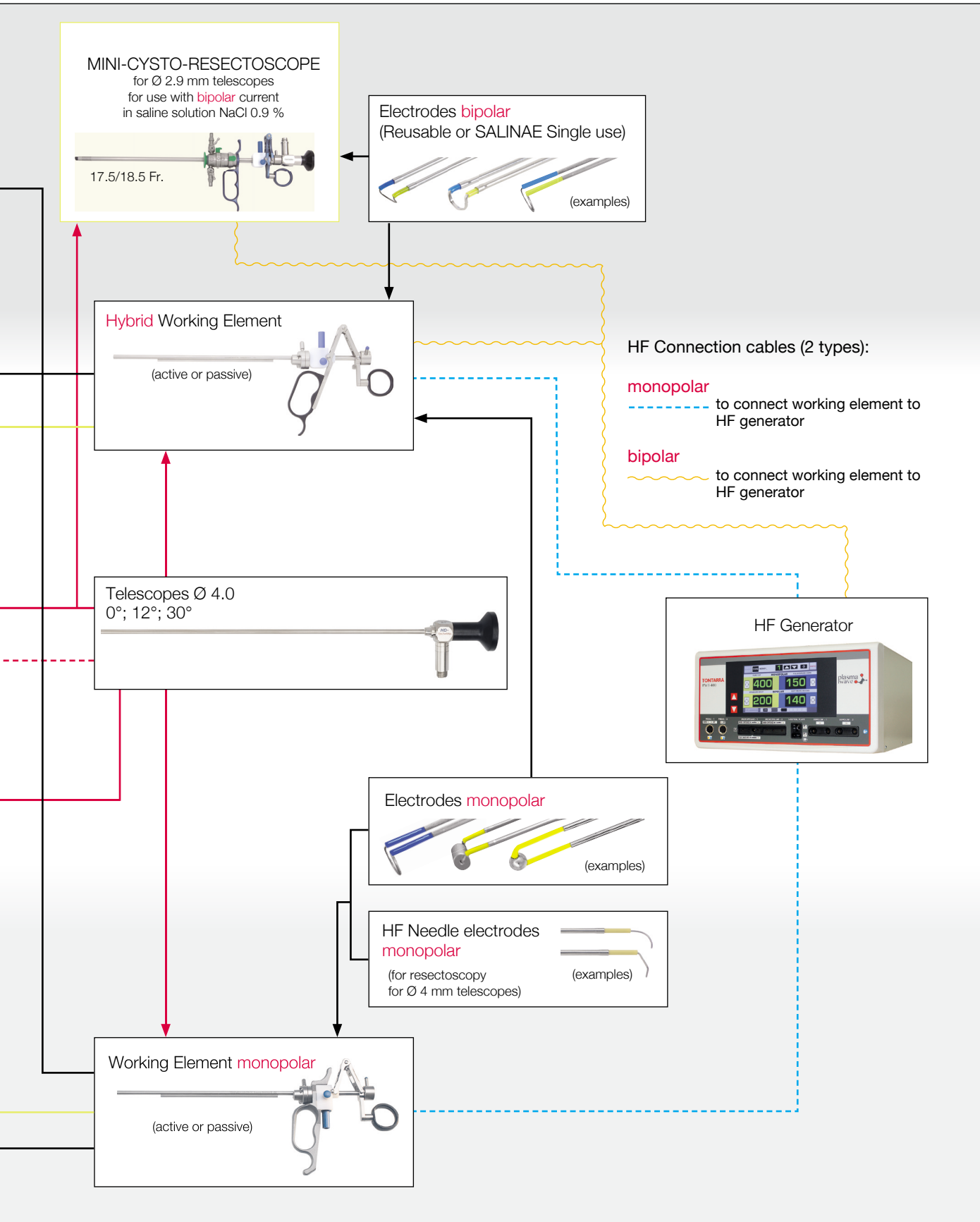
				
	BUTTON ELECTRODE	NEEDLE ELECTRODE angled 45°	NEEDLE ELECTRODE angled 90°	NEEDLE ELECTRODE straight
	582-515-05	582-516-05	582-518-05	582-517-05

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

Systems and components for Ø 4.0 mm telescopes

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



RESECTOSCOPY

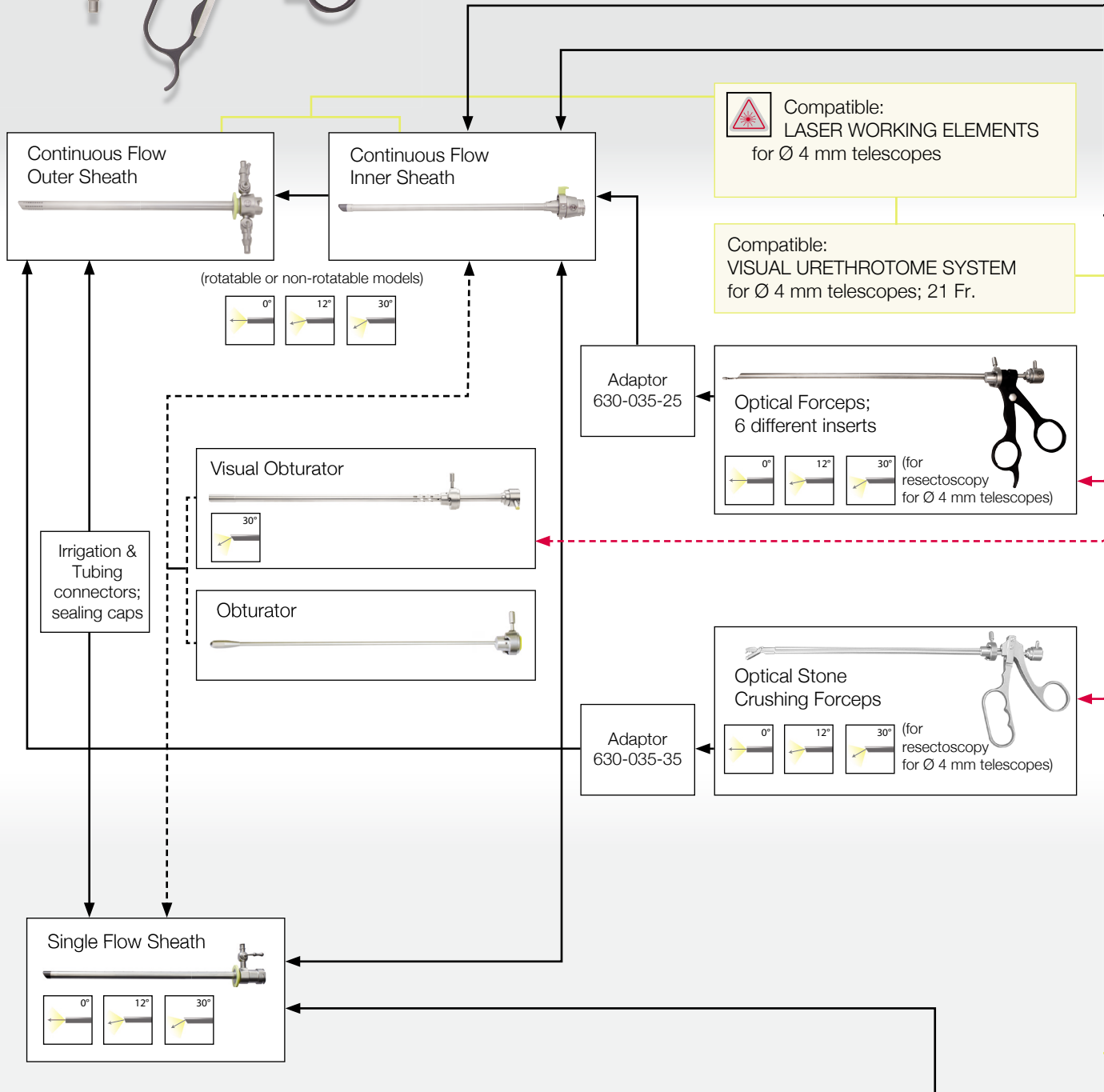
► Schematic overview

RESECTOSCOPY **monopolar** < BOTH SYSTEMS > HYBRID RESECTOSCOPY



HYBRID RESECTOSCOPY

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



RESECTOSCOPY for **monopolar** use only

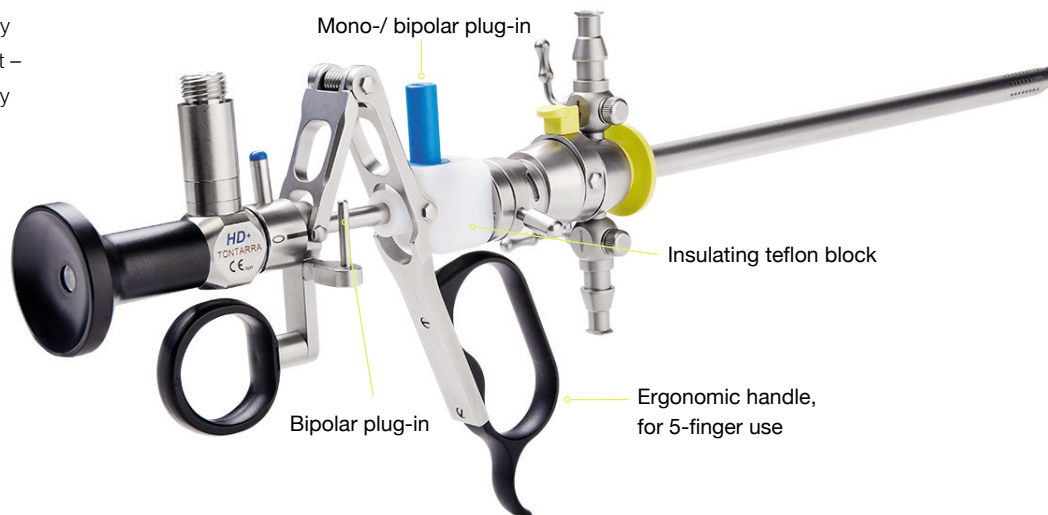
RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

► 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. 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
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

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.

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 (Salinæ)

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

Monopolar electrodes



(examples)

Bipolar electrodes



Monopolar HF-needle electrodes



(examples)



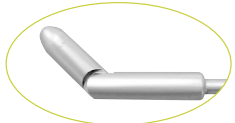




RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

► 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:

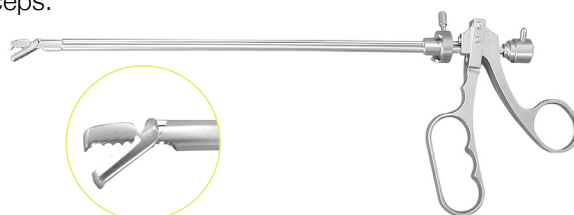


ADAPTOR for using optical instruments with resectoscopy sheaths

➡ 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

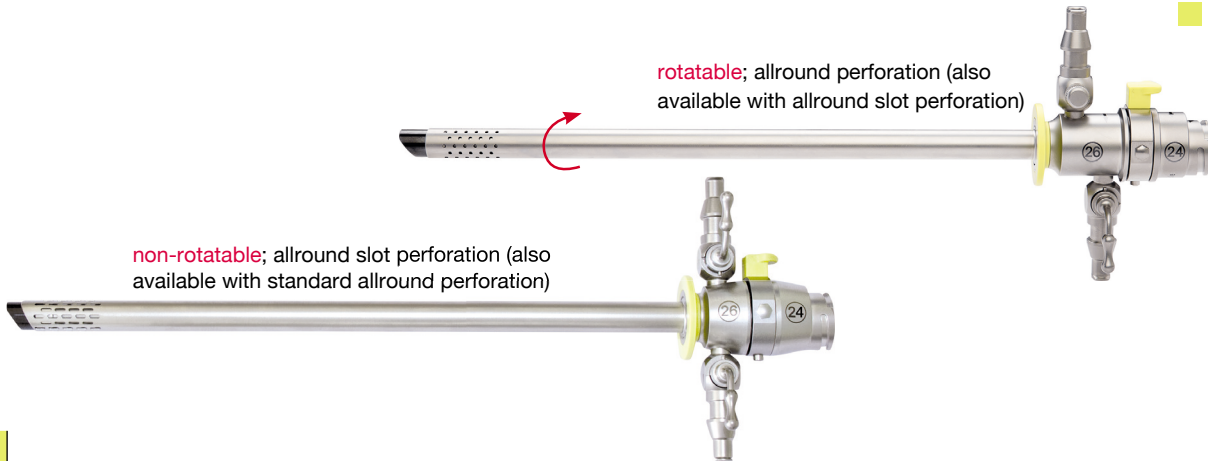
➡ 26 Fr. & 28.5 Fr.

(Art. No. 630-035-35)

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

► 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“



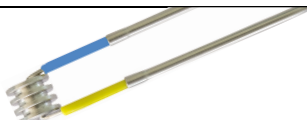
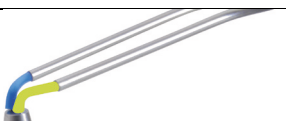
RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

► 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

- ▶ 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









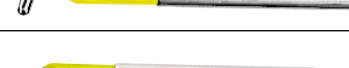






RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

► Reusable electrodes for use with **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



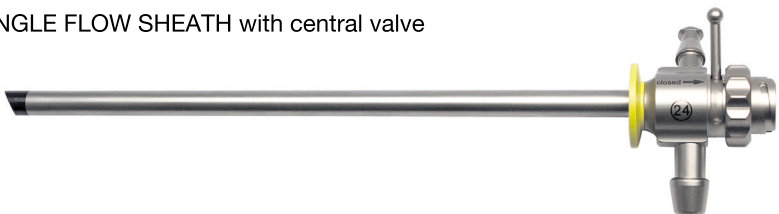
- ▶ Working elements; **monopolar**
- ▶ Single flow sheaths

- 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	

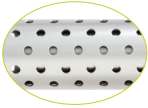
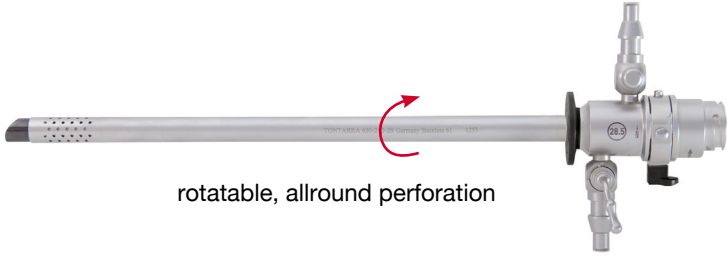
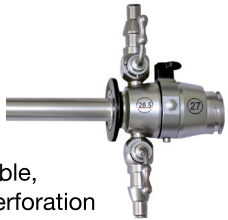
RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES


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

■ 27/28.5 Fr.

CONTINUOUS FLOW SHEATHS; 2 stopcocks






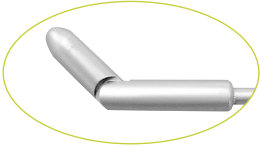




Description	Allround perforation	
  <p>rotatable, allround perforation</p>	 <p>non-rotatable, allround perforation</p>	
	Non-rotatable	Rotatable
OUTER SHEATH (28.5 Fr.)	630-204-08	630-209-08
INNER SHEATH (27 Fr.)	630-204-28	630-209-28

 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



- ▶ HF-Needle electrodes for papillary bladder tumor resection
- ▶ Reusable electrodes for use with **monopolar** current and non-conductive solution (Sorbitol, Mannitol, Glycine)

24/26 Fr.




HF-NEEDLE ELECTRODES for papillary bladder tumor resection; **monopolar**

24/26 Fr.

24/26 Fr.	Art. No.	Electrode Spez.	
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 two different forms of the loops enable the tumor resection from different locations of the bladder wall.

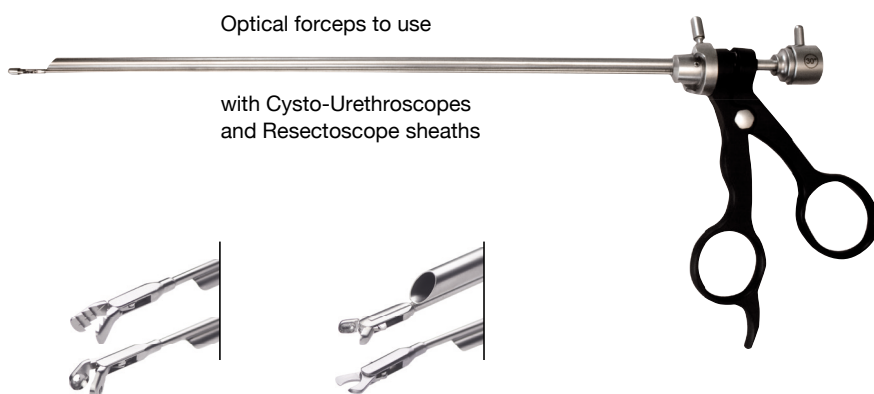
HF CONNECTION CABLES; **MONOPOLAR** for semi-flexible electrodes / for working elements

Available for following units: Erbe/Storz; Ø 5.0 mm Valleylab; Conmed; Bowa; Ø 8.0 mm 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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MICRO TOOLS COMPATIBLE TO THE 27/28.5 Fr. RESECTOSCOPY SYSTEM

■ 27/28.5 Fr.

► Optical forceps "Drop Style" for better insertion:

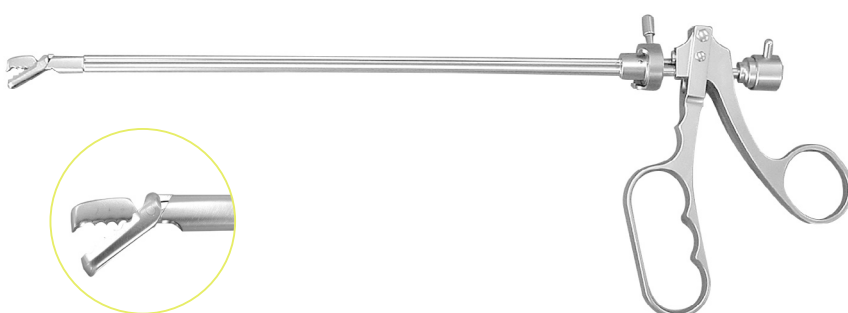


ADAPTOR for use of optical instru-
ments with resectoscope sheaths

➡ 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

- ▶ 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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URETHROTOMY

◀ 21 Fr.

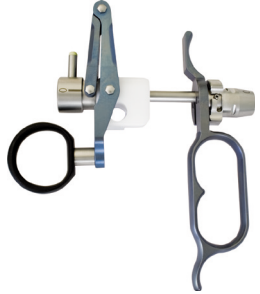
◀ 15.5 Fr.

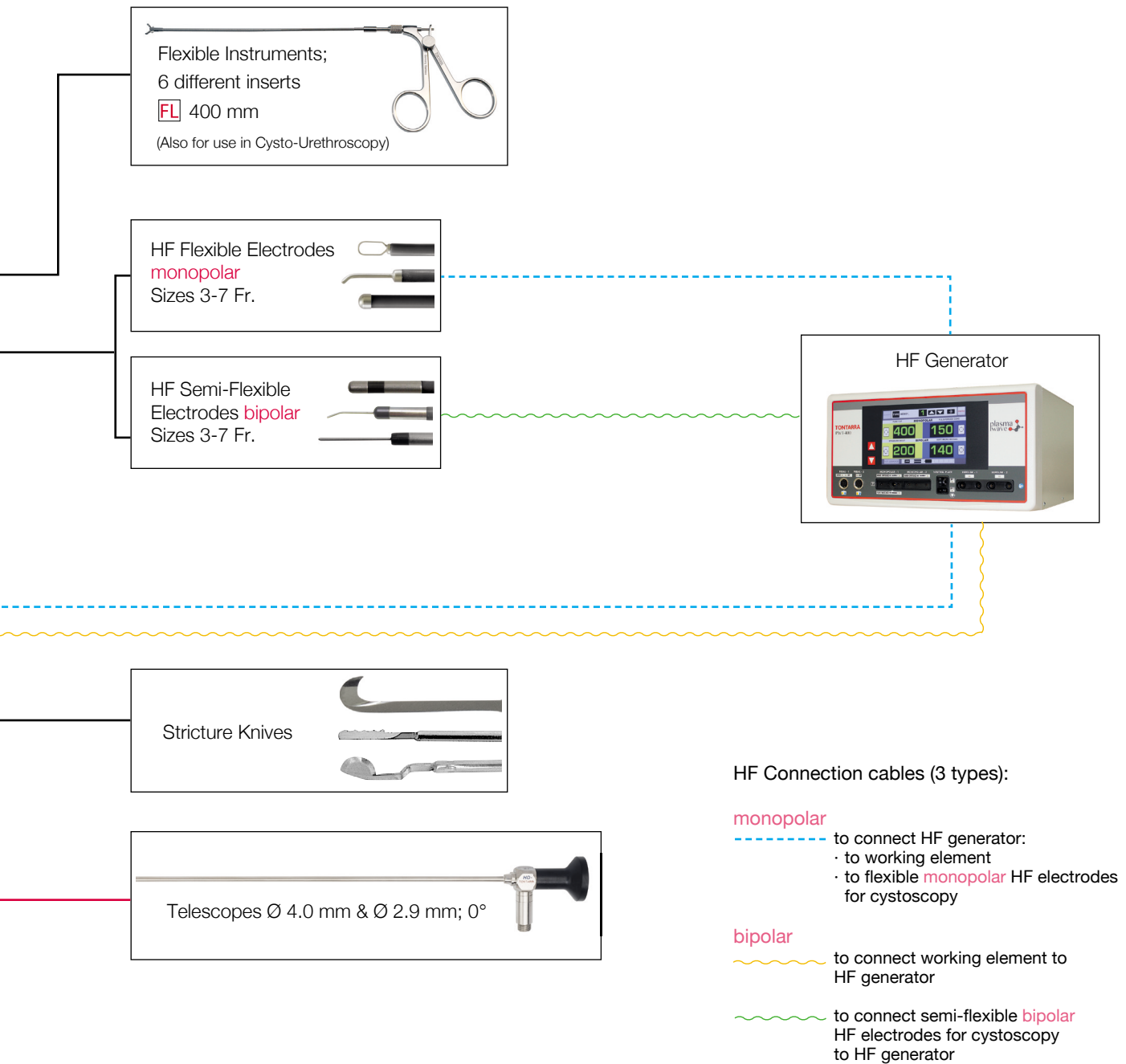
RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

- ▶ Working elements for Ø 4.0 mm telescopes
- ▶ To use with **bipolar** Gyrus electrodes and Gyrus generator (from company Olympus/Gyrus)

WORKING ELEMENT TO USE WITH GYRUS ELECTRODES; **BIPOLAR**

- ▶ Titanium; closed handle

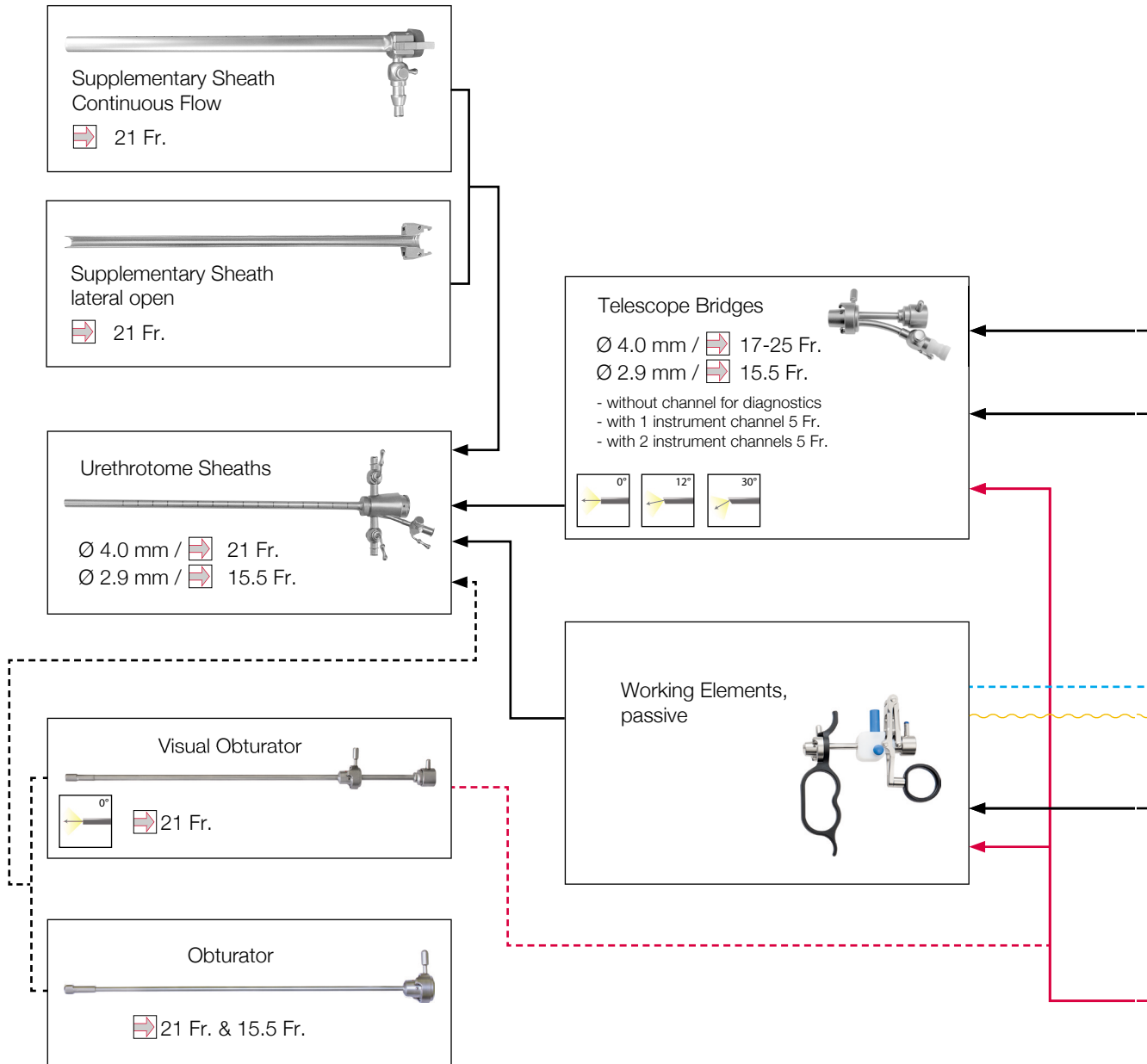
Compatibility	Active cutting	Passive cutting	Conus	
GYRUS / Storz	630-350-05	630-350-55	2 included	
extra conus			630-350-90	
GYRUS / Wolf	630-351-05	630-351-55	1 included	
extra conus			630-351-90	
GYRUS / Olympus	630-352-05	630-352-55	1 included	
extra conus			630-352-90	



URETHROTOMY

► Schematic overview

URETHROTOMY

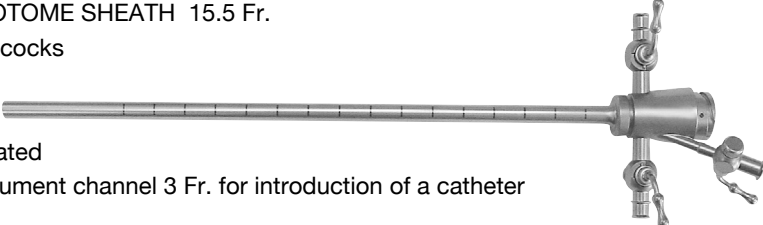








URETHROTOME SYSTEM







- ▶ 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. <ul style="list-style-type: none"> ▶ 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 <ul style="list-style-type: none"> ▶ 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 SYSTEM

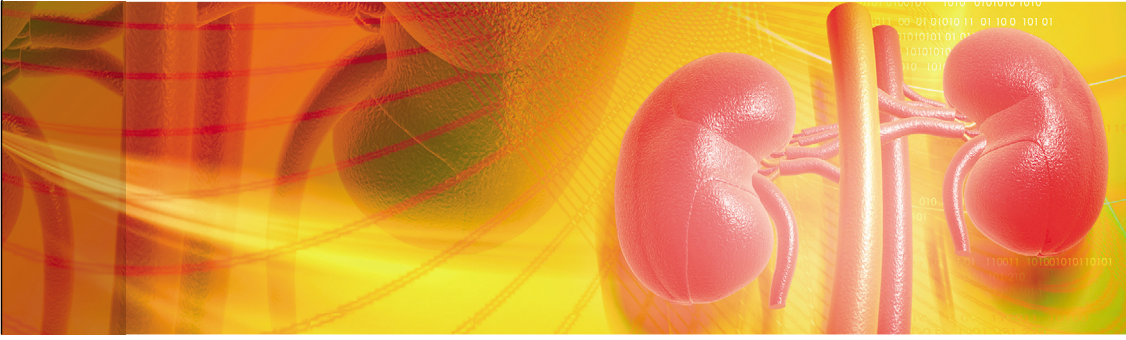
► Visual Urethrotome system for Ø 4.0 mm telescopes

21 Fr.

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

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

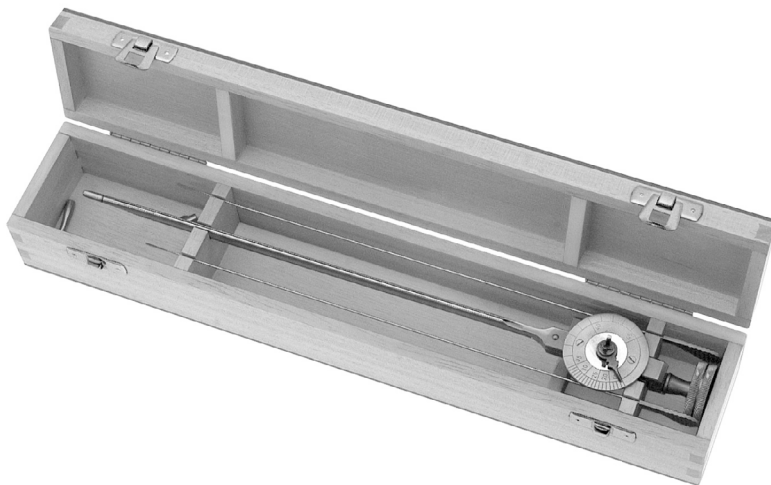
WORKING ELEMENTS passive for Ø 4 mm telescopes, bipolar and monopolar: see chapter resectoscopy.








URETERO-RENOSCOPY

URETHROTOME OTIS

► Urethrotome for adults

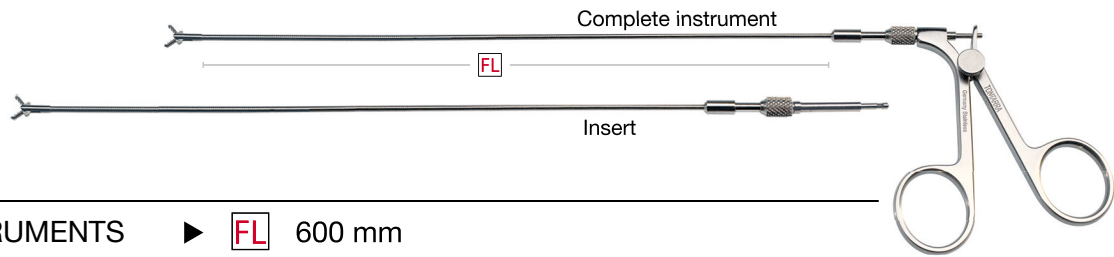


OTIS URETHROTOME for adults









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 
		Tip conical 
	582-720-02	582-720-03

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

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

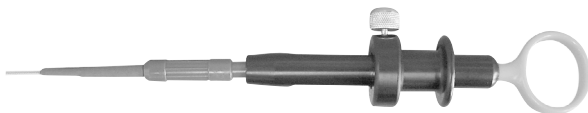




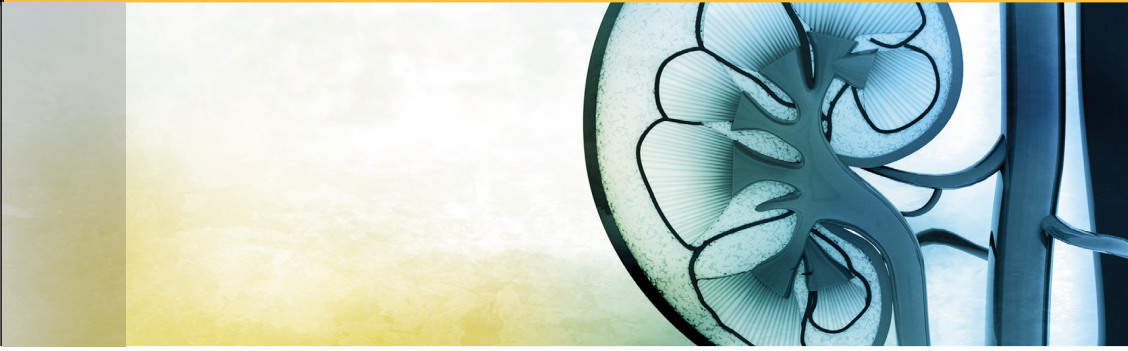
URETERO-RENOSCOPES [autoclavable]

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 STONE BASKETS ▶ **FL** 600 mm ⇨ 3 Fr. & 5 Fr.

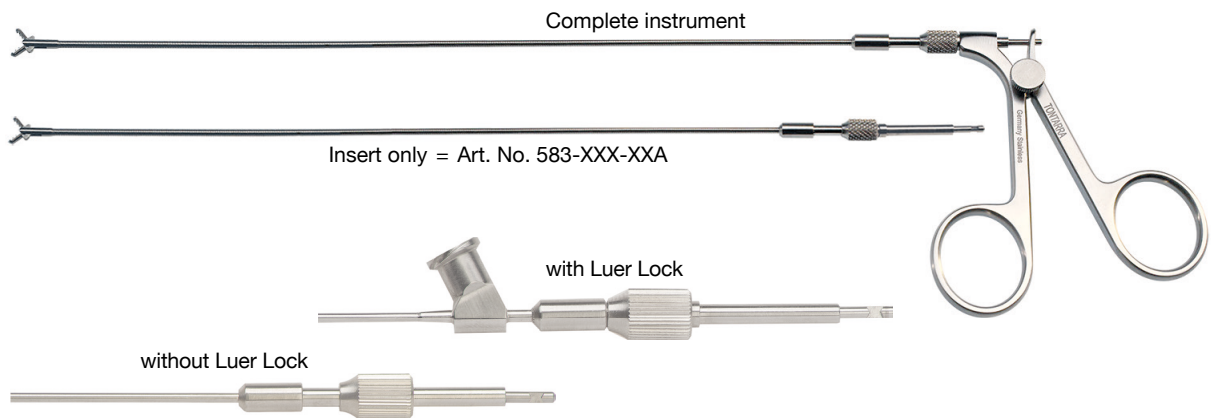
Description	Art. No.	Information
HANDLE ▶ for 3 Fr. and 5 Fr. stone catcher; ▶ colour code: blue	582-610-02	
STONE CATCHER; 3 Fr. ▶ with 4 strings; ▶ with tubus; ▶ without handle	582-610-03	
STONE CATCHER; 5 Fr. ▶ with 4 strings; ▶ with tubus; ▶ without handle	582-610-05	




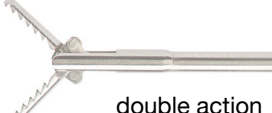
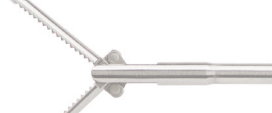


NEPHROSCOPY

URETERO-RENSCOPY

► Semi-rigid Instruments; FL 600 mm



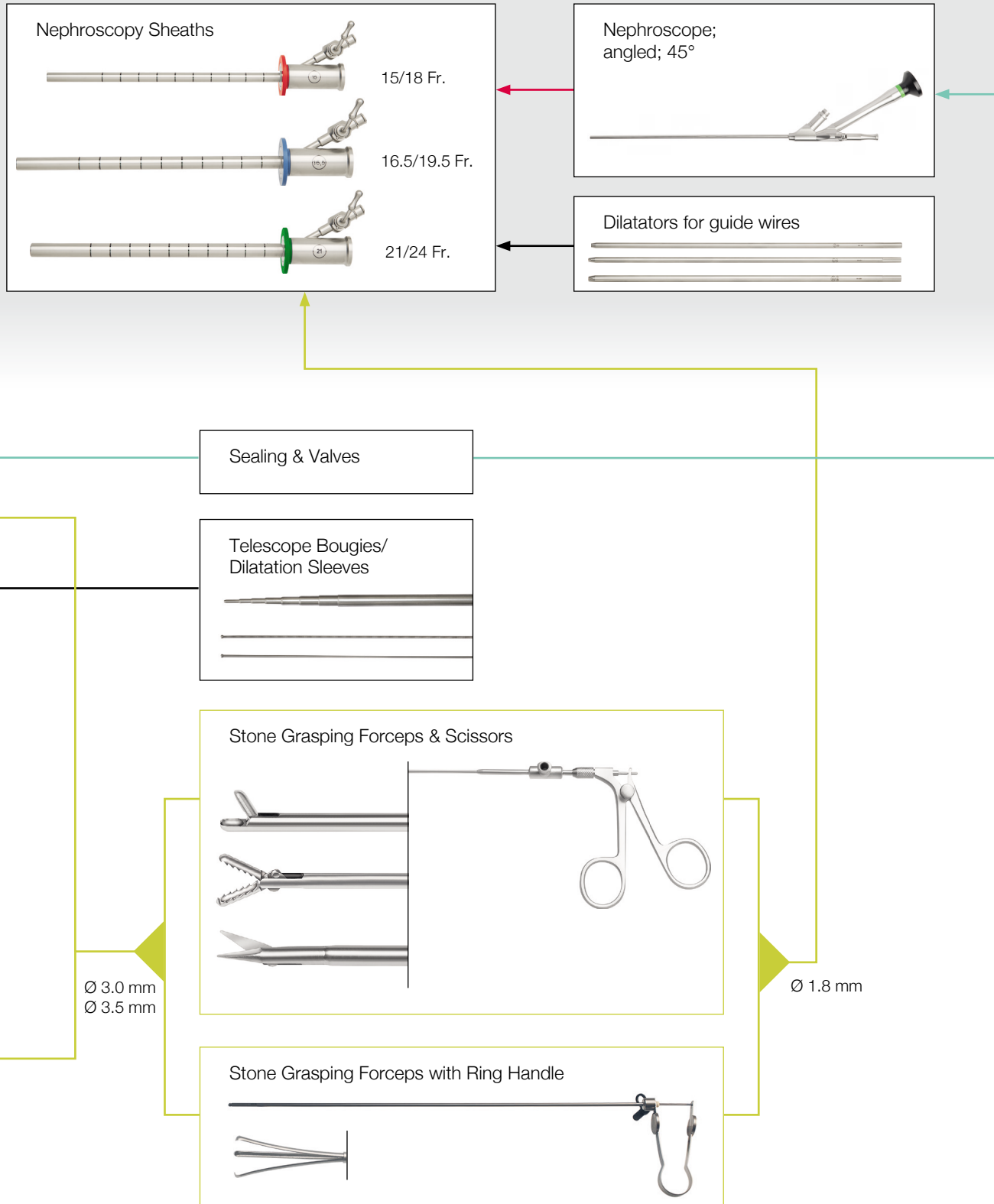
SEMI-RIGID INSTRUMENTS ► FL 600 mm ⇨ 4 Fr. & 5 Fr.

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.

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.

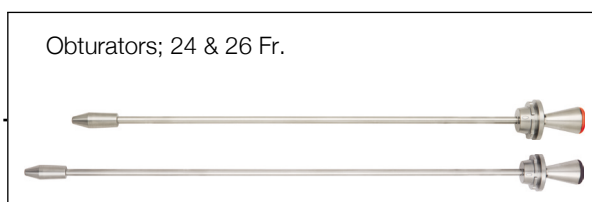
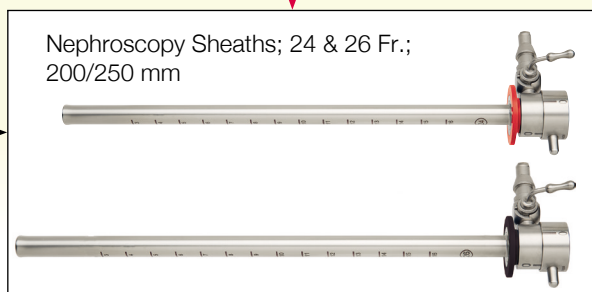
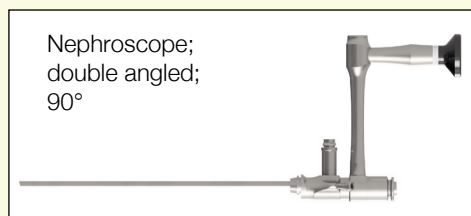
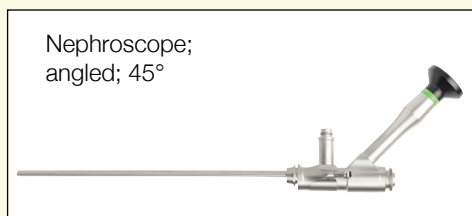
Mini-Compact nephroscope for 18 Fr./19.5 Fr./24 Fr. nephroscopy sheaths
(FL 220 mm; working channel Ø 2.2 mm)



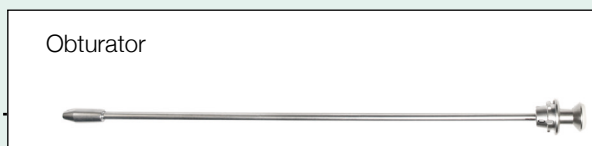
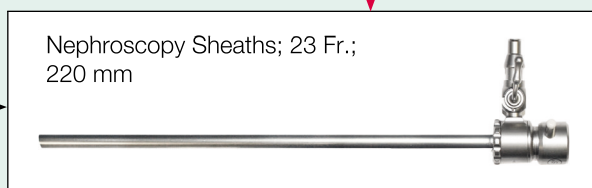
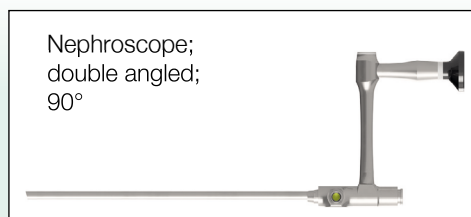
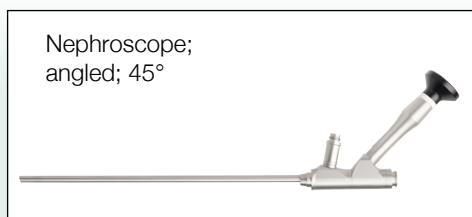
NEPHROSCOPY

► 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)



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



NEPHROSCOPY

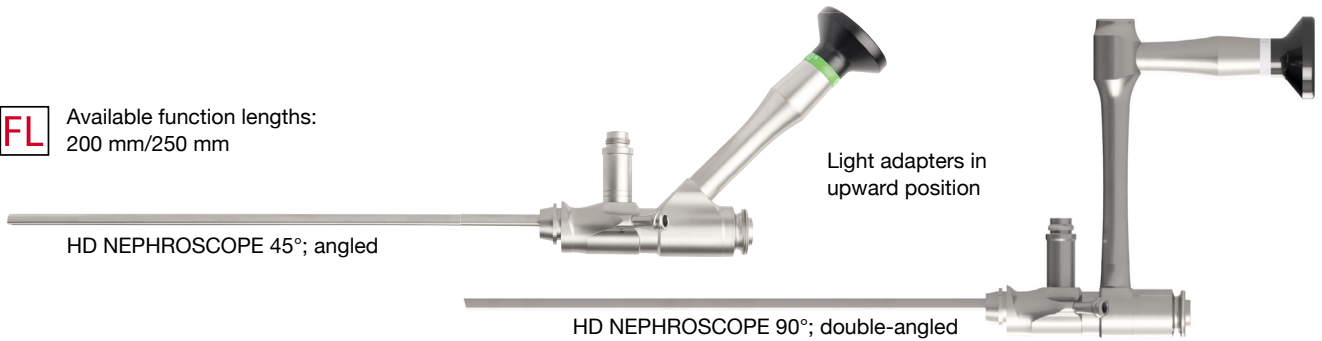
NEPHROSCOPY

▶ HD Nephrosopes for 24/26 Fr. sheaths

24 Fr.
26 Fr.

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

FL Available function lengths:
200 mm/250 mm



HD NEPHROSCOPES Ø 2.8 mm ▶ working channel Ø 5 mm

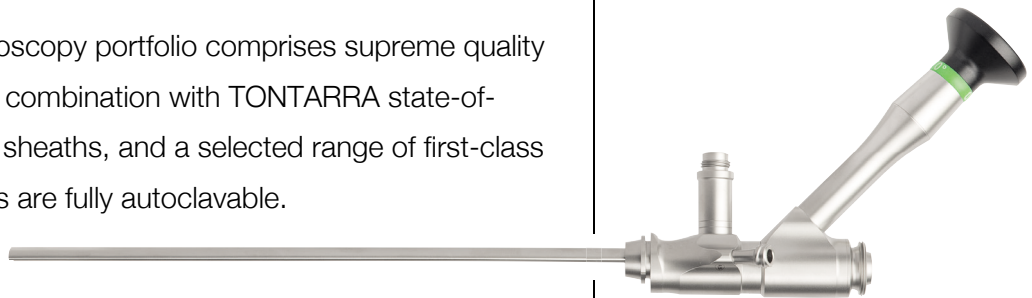
➡ 24 Fr. 26 Fr.

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

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 lens 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 lens system

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



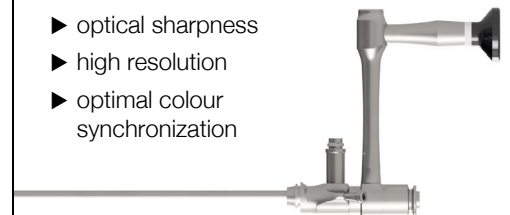
MINI NEPHROSCOPY

▶ 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

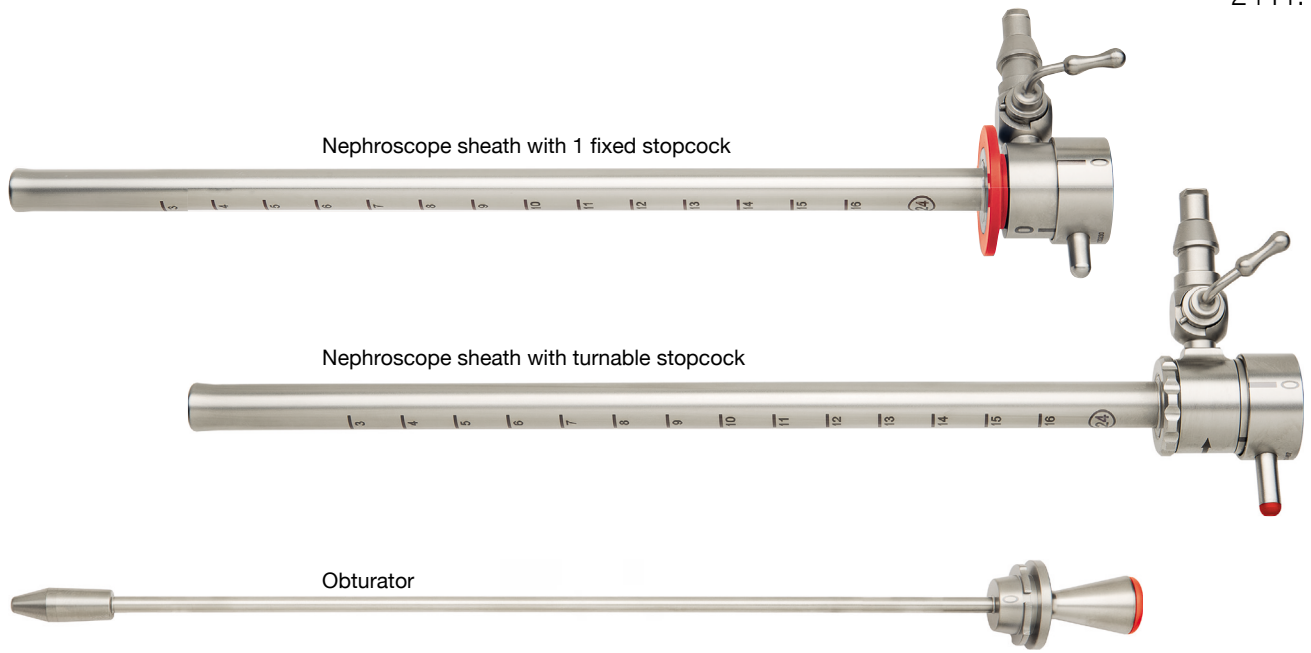


- ▶ Sealing










NEPHROSCOPY

► Nephroscopy sheaths & obturators 24 Fr.

24 Fr.



NEPHROSCOPY SHEATH SYSTEM; 24 Fr.


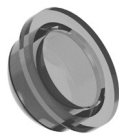




Description	■ 200 mm	■ 250 mm	□ 264 mm*
NEPHROSCOPE SHEATH 1 x fixed stopcock			
	630-420-12	630-420-52	630-420-32
NEPHROSCOPE SHEATH Turnable stopcock			
	630-420-14	630-420-54	630-420-34
OBTURATOR hollow			
	630-420-17	630-420-57	630-420-37
Recommended nephroscopes: 601-130-45, 601-140-45, 601-130-90,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

NEPHROSCOPY

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

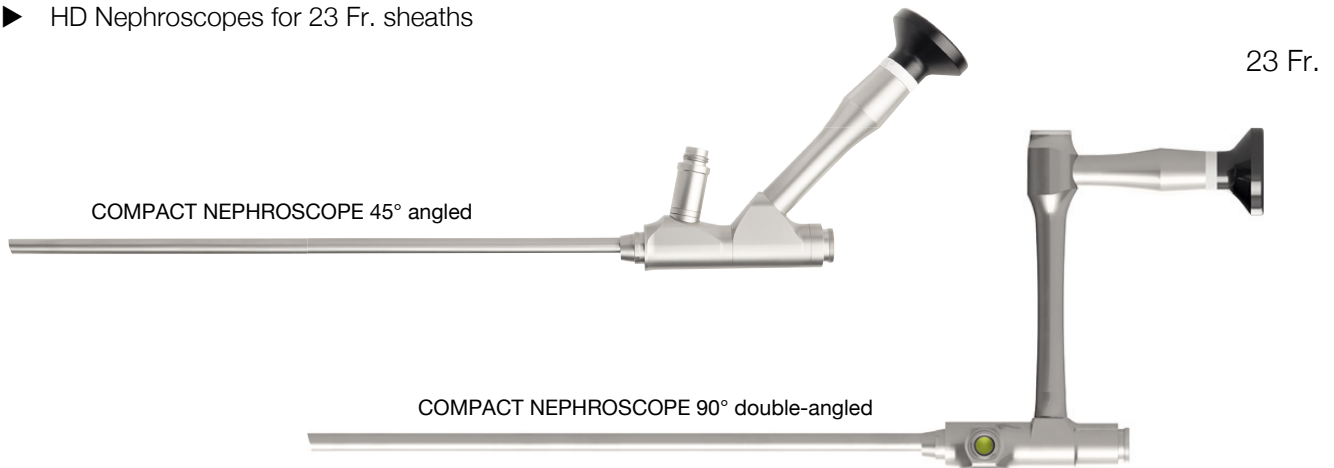
24 Fr.
26 Fr.

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	
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 pcs./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 pcs./unit	601-150-03	
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

► HD Nephroscopes for 23 Fr. sheaths



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

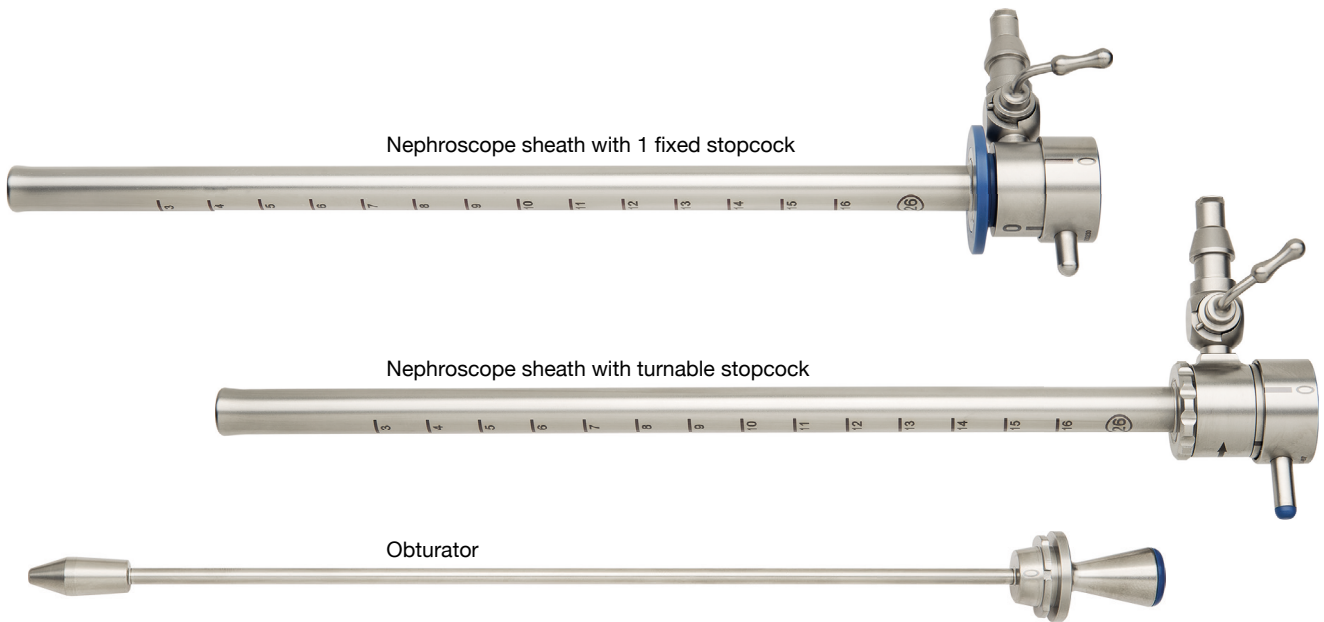
Description	Art. No.	Information
COMPACT NEPHROSCOPE 45° angled	601-135-45	
COMPACT NEPHROSCOPE 90° double-angled	601-135-90	
DOME VALVE 072; Silicone transparent for compact-nephroscopes 601-135-45 & 601-135-90 and nephroscopes 601-130-45, 601-130-90, 601-140-45; sheaths 18/22 & 24/26 Fr. systems. 10 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	
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


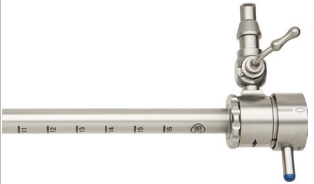
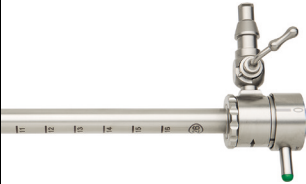
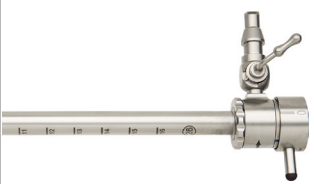



NEPHROSCOPY

► Nephroscopy sheaths & obturators 26 Fr.

26 Fr.

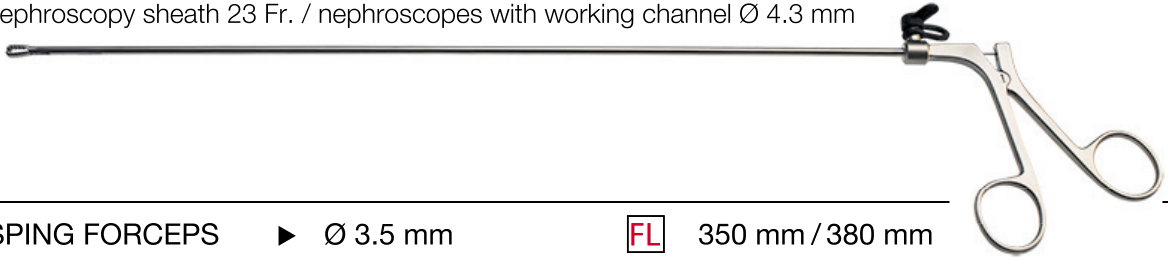


NEPHROSCOPY SHEATH SYSTEM; 26 Fr.

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

- ▶ 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 630-450-35	380 mm 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

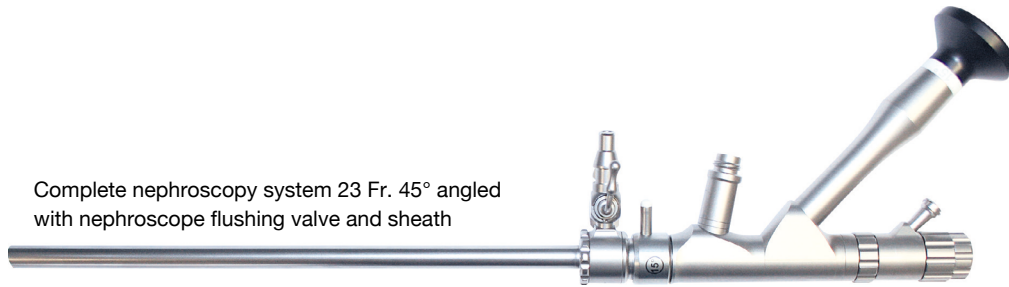
Description	Art. No.	
STONE GRASPER three-pronged; <ul style="list-style-type: none"> ▶ Ø 3.5 mm ▶ FL 380 mm 	630-470-35	U-spring grip; self-closing
STONE GRASPER three-pronged; fine; <ul style="list-style-type: none"> ▶ Ø 3.0 mm ▶ FL 400 mm 	630-471-30	

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.	Information
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	






HF GENERATOR & CONNECTION CABLES

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 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 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

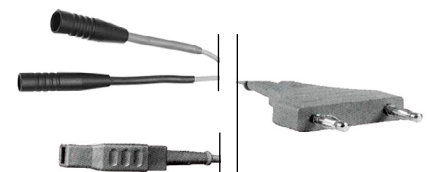
HF-connection cables **monopolar**

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



ACCESSORIES






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		
Covidien mod. ForceTriad™; Valleylab™ FT10	3.0 m	287-240-30BR		
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		
Emed-HF mod. Spectrum	4.0 m	287-225-30BR		
Bowa mod. ARC 350 & 400	4.5 m	287-230-30BR		

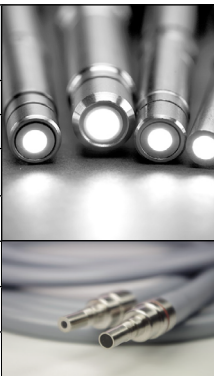

HF CONNECTION CABLES; **BIPOLAR** ► to connect semi-flexible **bipolar** HF electrodes to HF generator

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








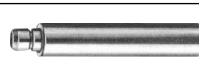

► Light Guide Cables & Connectors

FIBER LIGHT GUIDE CABLES Ø 3.5 mm ► Stability & resistance for a long life time
 ► without connectors



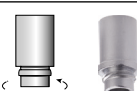
Description	Standard Cold Light Line	HTT High Temperature Technology Line	HP High Performance Line	
Cold light sources	HALOGEN careful w/Xenon light!	for all cold light sources (excellent light transmission)		
		optimized for XENON	optimized for LED	
Sizes	Art. No.'s			
Ø 3.5 x 1800 mm Length	540-803-18	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/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

- ▶ Evacuators; Bladder Syringes; Tubing Connectors & Sealing caps

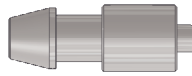




ELLIK EVACUATOR & SHEATH CONNECTIONS

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

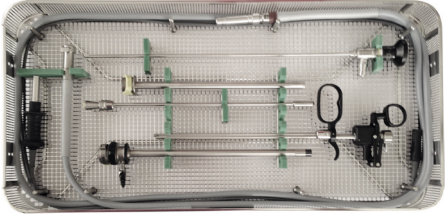
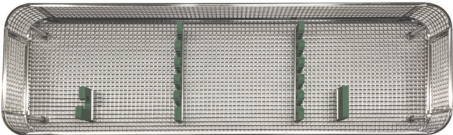
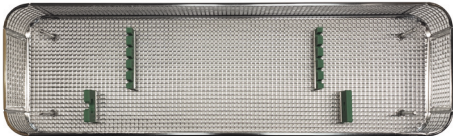

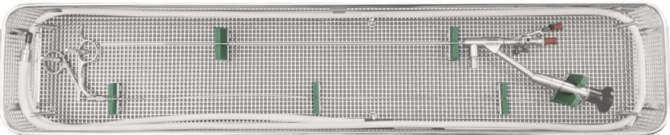
TUBING CONNECTORS & SEALING CAPS

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

► Wire Baskets

WIRE BASKETS

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

ACCESSORIES

- ▶ Maintenance; storage & sterilization
- ▶ Protection

MAINTENANCE; STORAGE & STERILIZATION

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

PROTECTION

Description	Art. No.
<p>PROTECTING SLEEVE FOR ALL TELESCOPES</p> <ul style="list-style-type: none"> ▶ easy handling; ▶ up to Ø 5.5 mm ▶ reusable ▶ Plastic sleeve 	590-000-01 (10 pcs./box)
<p>PROTECTING SLEEVE for ELECTRODES</p> <p>for storage and sterilization</p> <p>for up to 8 electrodes, reusable</p>	590-000-03

