Endoscopy-Systems
Minimal-Invasive Surgery
Urology, Gynecology
and Laparoscopy

German Endoscopy Manufacturer

LUT

Leben und Technologie

About us

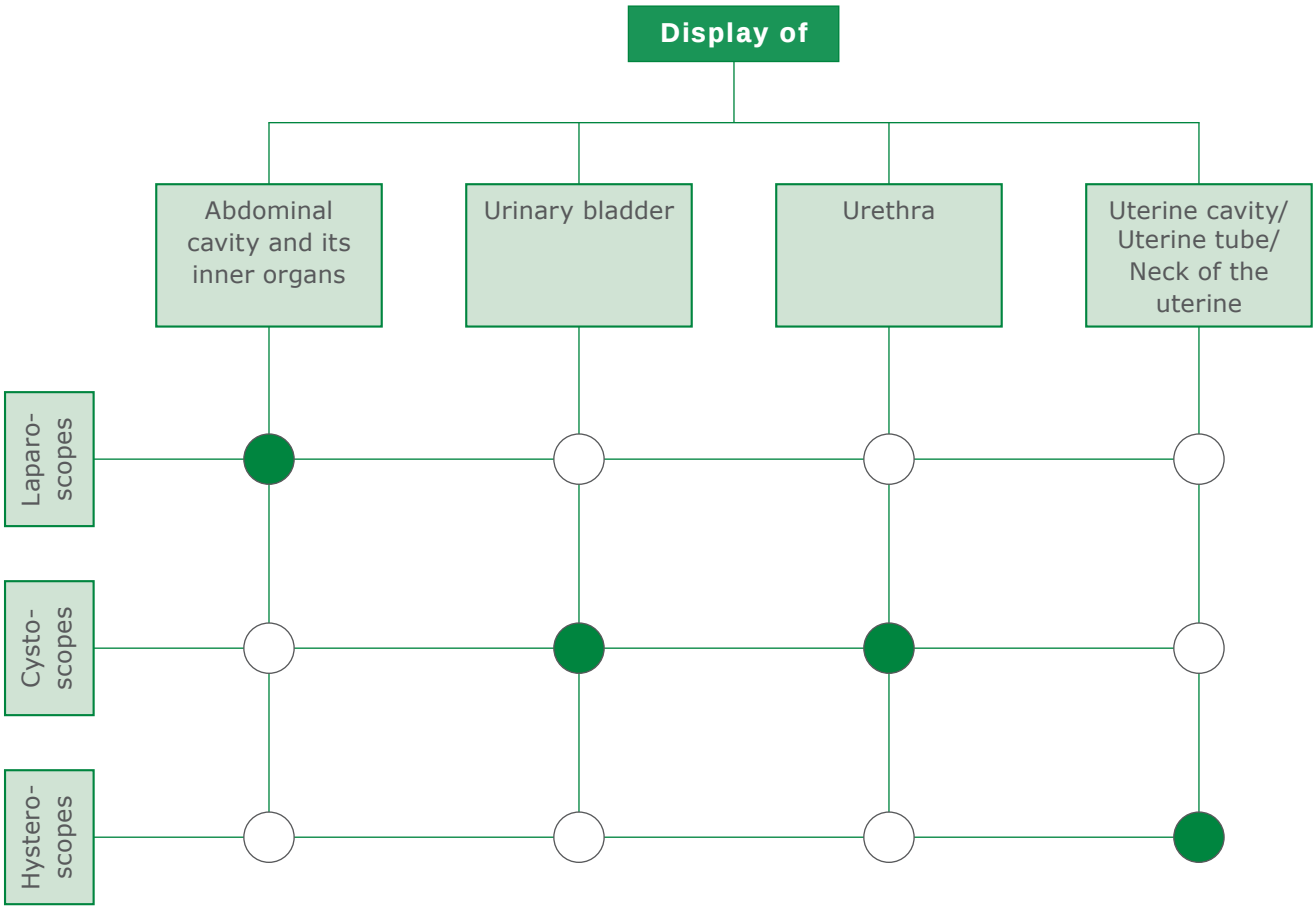
Endoscopic approaches, which are less traumatic for the patients, have found widespread use across many surgical disciplines over the past decades. New applications and operation methods are on the way and need to be combined with entrepreneurial spirit. At the same time, everything is linked to the most important point in life: healthiness.

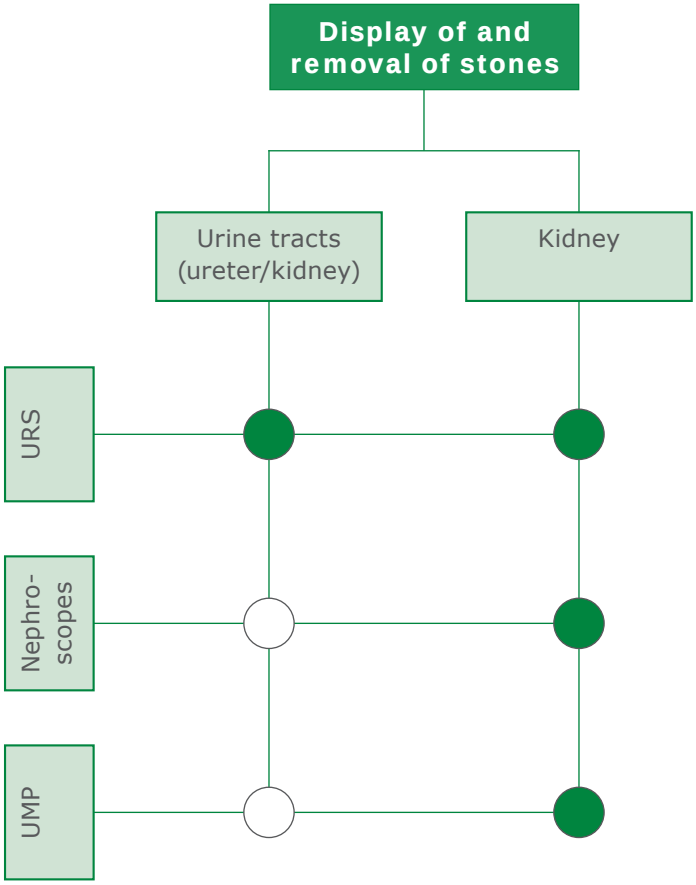
At LUT we sell high class products, which rely on safe and well developed technologies. We set a high value on the dialog with our customers in order to meet their needs after careful evaluation. Since 1991 LUT offers solutions for minimal-invasive surgery with a focus on Urology, Gynecology and Laparoscopy.

As a manufacturer of endoscopic solutions for minimal invasive surgery, LUT runs its own hubs for marketing, sales and servicing in Germany, China, Malaysia and Brazil and is further expanding its distributions network across the world.

Content

LUT offers a comprehensive choice of endoscopes for laparoscopic as well as urological and gynecological interventions





The laparoscopes come in two sizes, 5.0 and 10.0 mm, which are the standard of choice

The cystoscopes/hysteroscopes are available in 2.7/2.9/4.0 mm whereras for special indications also 2.0 mm endoscopes are available

The semi-flexible uretero-renoscopes (URS) are available in 6.0 and 7.5 Fr. distal diameter and in 310 and 425 mm length

The nephroscopes are available as mini nephroscopes of 13.5 Fr. in diameter and standard nephroscopes of 19.0 Fr. in diameter

The ultra-mini nephroscope (UMP) defines a new class of nephroscopes with only 3.0 Fr. in diameter and is to date the smallest nephroscope available on the market

Specified and tested to meet the highest quality requirements

For best image quality

Engineered in Germany

Two years granted warranty

Exchange endocopes for almost entire range

1

Endoscopes for Laparoscopic/Urological/Gynecological Interventions

Laparoscopy

Endoscopes are the heart in minimal-invasive surgery. They bring the vision inside the human body, they make structures visible and deliver those images, surgeons need in order to perform a safe operation and to make the right decisions.

As an experienced manufacturer we constantly improve the engineering within our product development.
Our endoscopes are optimized that in combination with high resolution cameras, users will get a true High Definition Endoscopy System.

In the following section our specialized product program of endoscopes is presented along all important instruments, which are widely used in clinical practice of laparoscopy.

Laparoscopes

Our endoscopes are of high quality and guarantee an outstanding image reproduction of first-class HD quality.

Ø mm	Length mm	Direction of view	Field of view	Order number
5.0	312	0°	Wide Angle	11.0055a
5.0	312	30°	Wide Angle	11.0057a
10.0	344	0°	Wide Angle	11.0031a
10.0	344	30°	Wide Angle	11.0043a

Long endoscopes in 5.0 mm and 10.0 mm Ø available on request.

Cystoscopy / Hysteroscopy

Endoscopes are at the heart of minimal-invasive surgery. They allow the surgeons to see inside the human body, make structures visible and deliver the images, surgeons need in order to perform safe and effective interventions.

As an experienced manufacturer we constantly improve the engineering within our product development.
Our endoscopes are optimized that in combination with high resolution cameras, users will get a true High Definition Endoscopy System.

In the following section our specialized product program of endoscopes is presented along all important instruments, which ae widely used in clinical practice of cystoscopy and hysteroscopy.

Cystoscopes / Hysteroscopes

Our endoscopes are of high quality and guarantee an outstanding color reproduction. 2.0 mm Ø endoscopes are built with a semiflexible image bundle.

The 2.7 - 4.0 mm Ø endoscopes are of first-class HD quality.

Ø mm	Length mm	Direction of view	Field of view	To system	Order number
2.0	196	0°	Wide angle	Storz	41.0307a
2.0	258	0°	Wide angle	Storz	11.0480a
2.7	302	0°	Wide angle	Storz	41.0150a
2.7	302	30°	Wide angle	Storz	41.0151a
2.9	302	0°	Wide angle	Storz	41.0160a
2.9	302	30°	Wide angle	Storz	41.0161a
2.9	302	12°	Standard	Storz	41.0166a
4.0	302	0°	Standard	Storz	41.0047a
4.0	302	0°	Wide angle	Storz	41.0049a
4.0	302	12°	Standard	Storz	41.0059a
4.0	302	30°	Standard	Storz	41.0057a
4.0	302	30°	Wide angle	Storz	41.0055a
4.0	302	70°	Wide angle	Storz	41.0121a

Compatible endoscopes to system Olmypus and Wolf on request. Please ask for the LUT exchange program.

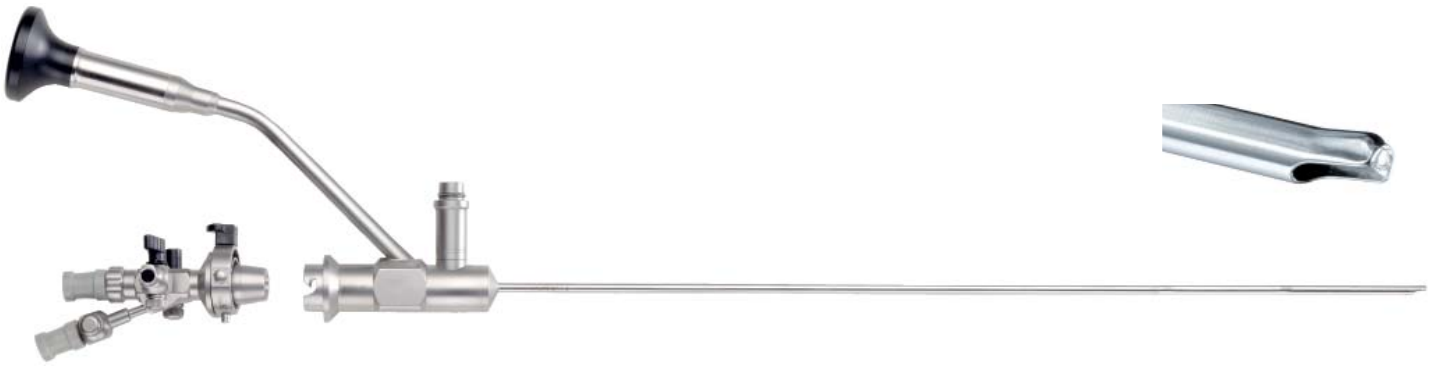
Sterilization- and cleaning accessories, see page 142ff.

Uretero-Renoscopy

The uretero-renoscope (URS) is used to display the urinary tract and the kidney but also for removal of ureteric and renal stones.

In order to insert the URS smoothly the distal tip is realized with an atraumatic shape and offers at the same time an ideal view to the ureter and the ureteric orifice. There is no need of camera re-focusing and no loss of picture while the URS is bended due to the special ocular construction.

This high-quality URS with semi-rigid sheath is fully autoclavable and meets all requirements of a safe sterilization as well as a long life-time.



Fr.	Working length mm	Working channel Fr.	Direction of view to working channel	Field of view	Order number
Uretero-renoscope with detachable instrument bridge, without EMS adapter					
6.0 distal	310	1 x 4.0 or 2 x 2.4	8°	100°	41.0615a.wol
6.0 distal	425	1 x 4.0 or 2 x 2.4	8°	100°	41.0614a.wol
7.5 distal	310	1 x 5.0 or 2 x 3.0	8°	85°	41.0611a.wol
7.5 distal	425	1 x 5.0 or 2 x 3.0	8°	85°	41.0609a.wol

Accessories	Description	Suitable to	Order number
	EMS LC2 adapter	all uretero-renoscopes, mentioned above	41.0610a.lc2
	EMS LC1 adapter	all uretero-renoscopes, mentioned above	41.0610a
	Instrument bridge for uretero-renoscope; with two irrigation channels (included in the scope of delivery of uretero-renoscopes, mentioned above)	all uretero-renoscopes and nephroscope product range	41.0617a.lc2

Instrument bridge for nephroscopes (details see page 23) is compatible to uretero-renoscopes mentioned above.

Spare parts sterilization- and cleaning accessories, see page 142ff.

1 Flexible Instruments for URS

Fr.	Working length mm	Recommended for the use with	Order number

Grasping forceps, with long mouth, for stone street, with return spring

4.0	600	6.0 Fr. uretero-renoscopes	42.0018a
5.0	600	7.5 Fr. uretero-renoscopes	42.0019a

Foreign body grasping forceps, atraumatic, smooth serrated

4.0	600	6.0 Fr. uretero-renoscopes	42.0014a

Semi-rigid instruments available on request.

Fr.	Working length mm	To endoscope	Order number

Grasping forceps, rat tooth 2:1 teeth

3.0	600	all LUT uretero-renoscopes	42.0008a
4.0	600	6.0 Fr. uretero-renoscopes	42.0004a
5.0	600	7.5 Fr. uretero-renoscopes	42.0007a

Biopsy forceps, oval spoon, cutting

3.0	600	all LUT uretero-renoscopes	42.0013a
4.0	600	6.0 Fr. uretero-renoscopes	42.0015a
5.0	600	7.5 Fr. uretero-renoscopes	42.0040a

Grasping forceps, alligator jaw

3.0	600	all LUT uretero-renoscopes	42.0012a
4.0	600	6.0 Fr. uretero-renoscopes	42.0024a
5.0	600	7.5 Fr. uretero-renoscopes	42.0042a

Grasping forceps, spoon, serrated

3.0	600	all LUT uretero-renoscopes	42.0049a
4.0	600	6.0 Fr. uretero-renoscopes	42.0082a
5.0	600	7.5 Fr. uretero-renoscopes	42.0084a

Semi-rigid instruments available on request.

1 Flexible Instruments for URS

Three-pronged stone grasper

Fr.	Working length mm	To endoscope	Order number
3.0	600	all LUT uretero-renoscopes	42.0030a
5.0	600	7.5 Fr. uretero-renoscopes	42.0044a

Stone basket DORMIA

Fr.	Working length mm	Wires	To endoscope	Order number
3.0	600	4	all LUT uretero-renoscopes	42.0020a
5.0	600	6	7.5 Fr. uretero-renoscopes	42.0046a

Nephroscopy

Percutaneous nephroscopy is one of the established techniques to address challenging conditions of the kidney. The main indication is the removal of kidney stones, especially stones which may get stuck in the renal pelvis or that are too big in size for the urethra.

LUT Nephroscopes convince through their brilliant image resolution achieved by a contrast enhanced image bundle and a homogenous illumination. Due to optimized proportions between inner and outer diameter the introduction of instruments or the removal of bigger stones can be handled fast and safe; thanks to an optimal positioned side access also with flexible instruments. An integrated irrigation sheath guarantees a high flow to achieve stone-free results. The lightweight construction and the ergonomic design of the nephroscope make the whole procedure convenient for the surgeon.

LUT offers a safe and reliable nephroscope product range. It consists of a Mini-Nephroscope in 13.5 Fr., recommended also for pediatric procedures and a 19 Fr. Nephroscope. Suitable sheaths as well as instruments such as grasping forceps, micro scissors, threefold grasper and baskets for sterilization and storage are also available.

Fr.	Working length mm	Working channel Fr.	Field of view	Order number

Nephroscope, 45° angled, with two integrated irrigation channels and working channel by use with sheath, incl. cleaning brush, without instrument bridge

13.5	220	6.0	84°	41.0634a
13.5	320	6.0	84°	41.0635a
19.0	220	10.0	84°	41.0630a

Fr.	Color code	Suitable to	Order number

Nephroscope sheath for continuous flow

18.0/15.0	Yellow	13.5 Fr. nephroscope	41.0655a
24.0/21.0	Red	19.0 Fr. nephroscope	41.0661a

Additional sheath diameter and designs available on request.

1 Instruments for Nephroscopy

Obturator/Dilatator

Fr.	Bores	For use with order numer	Order number
15.0	Centric; 1 x 3.0 Fr.	41.0655a	41.0656a
21.0	2; 2 x 5.0 Fr.	41.0661a	41.0662a

Applicator for sealing to 41.0655a and 41.0661a

			Order number
			41.0658a

Accessories	Description	Suitable to	Order number
	Instrument bridge for nephroscope; with one irrigation channel (not included in the scope of delivery of nephroscopes)	all nephroscopes and uretero-renoscopes range	41.0641a

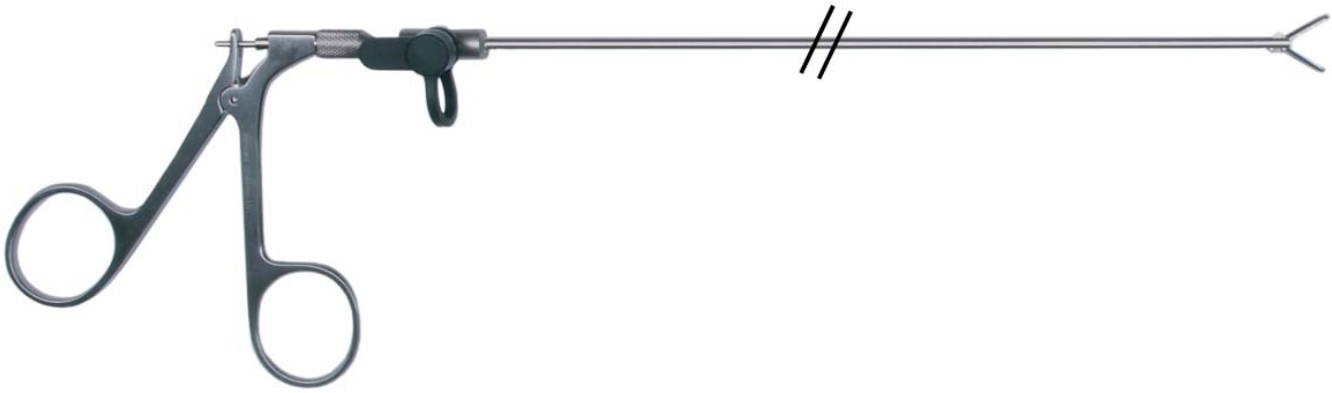
Instrument bridge for uretero-renoscopes (details see page 15) is compatible to nephroscopes mentioned in this chapter.

Telescope bougies set, 9.0 Fr. - 24.0 Fr., six different dilatation sleeves and two guide probe (one rigid, one flexible)

Fr.	Length in mm	Order number
Set (technical details see below)		41.0685a
9.0	198.0	-
12.0	201.5	-
15.0	205.0	-
18.0	209.0	-
21.0	213.5	-
24.0	219.0	-

Spare parts sterilization- and cleaning accessories, see page 142ff.
EMS bridge for lithotripter applications, see page 15.

1 Rigid Instruments



Fr.	Working length mm	To nephroscope	Order number

Biopsy forceps

5.0	400	13.5 Fr.; 220 mm working length (41.0634a)	41.0460a
9.0	400	19.0 Fr.; 220 mm working length (41.0630a)	41.0483a
5.0	500	13.5 Fr.; 320 mm working length (41.0635a)	41.0465a

Grasping forceps, serrated, fenestrated

5.0	400	13.5 Fr.; 220 mm working length (41.0634a)	41.0461a
9.0	400	19.0 Fr.; 220 mm working length (41.0630a)	41.0484a
5.0	500	13.5 Fr.; 320 mm working length (41.0635a)	41.0466a

Fr.	Working length mm	To nephroscope	Order number

Grasping forceps, alligator jaw

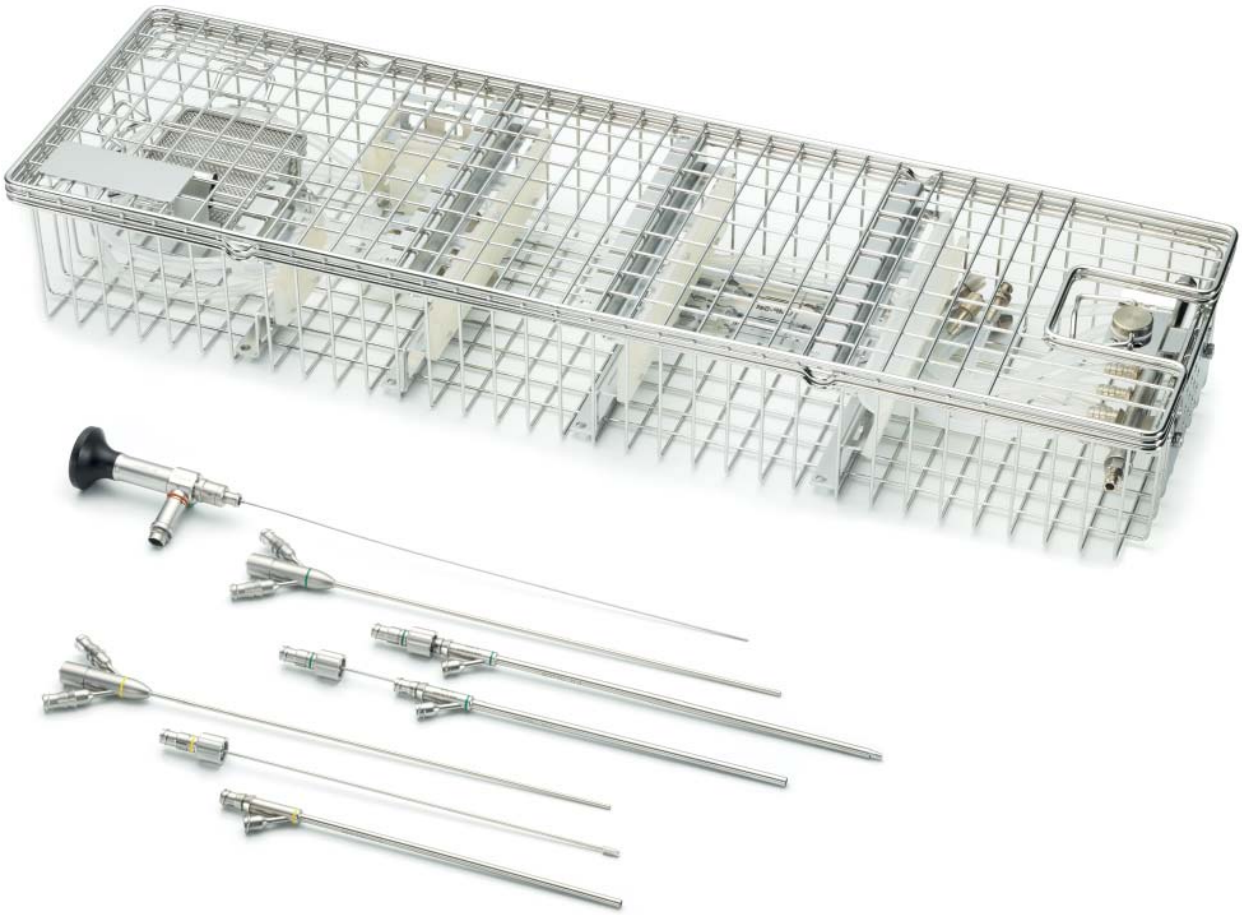
5.0	400	13.5 Fr.; 220 mm working length (41.0634a)	41.0462a
9.0	400	19.0 Fr.; 220 mm working length (41.0630a)	41.0485a
5.0	500	13.5 Fr.; 320 mm working length (41.0635a)	41.0467a

Threefold grasper, with U-handle

5.0	400	13.5 Fr.; 220 mm working length (41.0634a)	41.0464a
9.0	400	19.0 Fr.; 220 mm working length (41.0630a)	41.0487a
5.0	500	13.5 Fr.; 320 mm working length (41.0635a)	41.0469a

Flexible instruments, see page 16ff.

1 Ultra-Mini Nephroscope



Patent Pending

Ultra-Mini PCNL (UMP)

If interventional removal of renal calculi is needed there are several treatment options available. Treatment options include Extracorporeal Shock Wave Lithotripsy (ESWL), the Retrograde Intrarenal Surgery (RIRS) and the Percutaneous Stone Treatment (PCNL). When choosing an appropriate treatment, a number of circumstances come into play including the number, size, location and composition of the stone(s).

UMP is an operation technique developed by Dr. Janak Desai. When conventional therapies reach their limits, UMP expands the treatment range for percutaneous removal of kidney stones. By using an even smaller nephroscope, the UMP technique can remove inaccessible stones, located in the complex system of the lower renal calices. The Ultra-Mini Nephroscope will be inserted through a minor incision in the skin. A laser can be used to fragment the kidney stone and remove the stone material - a technique that is very gentle for the patient due to its extremely small diameter.

“UMP will continue to play an established, if not total, role in endoscopic stone treatment in the future.“
– Dr. Janak D. Desai

For more information please visit www.ultra-mini-pcnl.com.

Description	Order number Set
Ultra-mini nephroscope set, consisting of ultra-mini nephroscope, sheaths, obturators, cleaning brush set and cleaning basket with cover; technical details see below.	
	41.0665a

Fr.	Working length mm	Direction of view	Field of view	Color code	Order number
Ultra-mini nephroscope					
3.0		0°	85°		41.0667a*
Ultra-mini nephroscope wash pipe					
					41.0666a*

Ultra-mini nephroscope inner sheath with obturator					
6.0	220			Yellow	41.0668a*
7.5	220			Green	41.0669a*

*Single components of the set after purchase of a UMP Set (order nr. 41.0665a) and on request.
We would be pleased to recommend suitable laser probes.

1 Ultra-Mini Nephroscopes, Instruments

Ultra-mini nephroscope water jet sheath, with obturator

Fr.		Suitable to order number	Color code	Order number
11.0	150		Yellow	41.0670a*
13.0	150		Green	41.0672a*
13.0	180		Green	41.0674a*

Obturator, suitable to Ultra-Mini Nephroscope water jet sheath

11.0		41.0670a	Yellow	41.0671a*
13.0		41.0672a	Green	41.0673a*
13.0		41.0674a	Green	41.0675a*

Cleaning basket with cover; offers secure protection for the sensitive endoscopes against damage during cleaning, sterilization, storage or transport with obturator

				41.0676a*

*Single components of the set after purchase of a UMP Set (order nr. 41.0665a) and on request.

Spare parts sterilization- and cleaning accessories, see page 142ff.

Recommended instruments for use with UMP system.

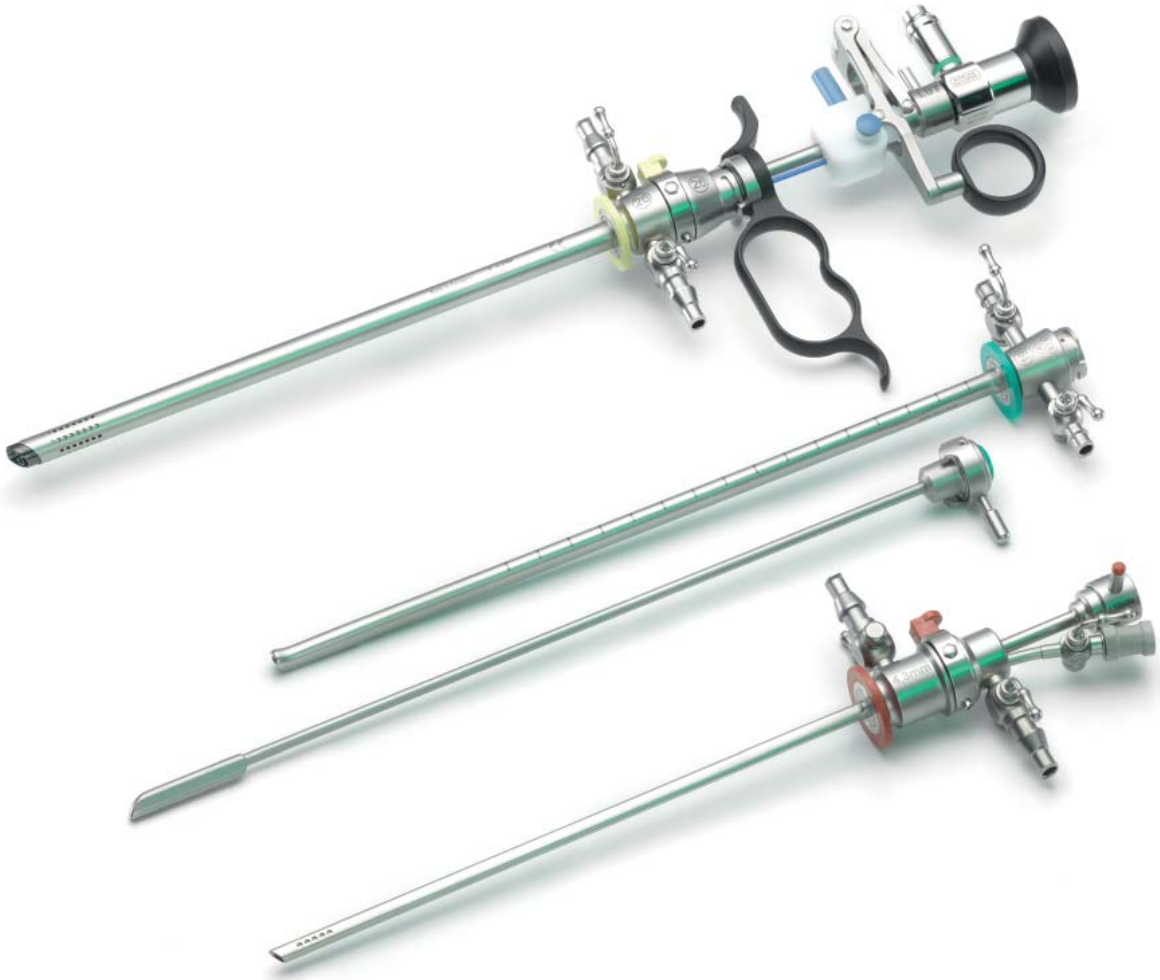
Fr.	Working length mm	Order number

Biopsy forceps, double action, serrated, semi-rigid

3.0	280	42.0052a.r

Grasping forceps, double action, alligator jaw, semi-rigid

3.0	280	42.0048a.r



High quality material

Precisely manufactured and ergonomically designed

Engineered in Germany

2

Working Units/Instruments for Urological/Gynecological Interventions

Resectoscopy

In the medical community, transurethral resection of the prostate (TURP) is often referred to as the gold standard of benign prostatic hyperplasia (BPH) treatment. During this standard procedure, the doctor inserts a resectoscope through the urethra into the bladder; resection of the prostate tissue is performed under sight via an electrode loop or a laser. LUT resectoscopy working units allow precise and safe guidance of the electrodes.

Our recommended LUT endoscopes in 2.9 mm/12° or 4.0 mm/30° offer best image conditions. Additional electrodes in different sizes and designs, obturators, sheaths as well as cameras, light sources and HF generators complete the product range of the LUT HF resectoscopy.

Products for Laser Resectoscopy can be found on page 41.

To endoscope Ø / length	Direction of view	Order number

Working unit passive for use with HF-electrodes. In rest position the electrode tip is inside the sheath
Suitable for use with monopolar electrodes and cold knives, pages 38/57.

2.9 mm / 302 mm	0° - 12°	51.0359b
4.0 mm / 302 mm	0° - 30°	51.0360b

Working unit active for use with HF-electrodes. In rest position the electrode tip is outside the sheath
Suitable for use with monopolar electrodes and cold knives, pages 38/57.

2.9 mm / 302 mm	0° - 12°	51.0366b
4.0 mm / 302 mm	0° - 30°	51.0383b

2 Sheaths and Obturators

Outer sheath Fr.	Inner sheath Fr.	Color code	To working unit	Consisting of	Order number Set
Resectoscope sheath, continuous flow, with fixed inner sheath and blunt obturator					
22.0	19.0	White	51.0359b; 51.0366b	Outer sheath: 51.0308b Inner sheath: 51.0306b Obturator: 51.0304b	51.0310b
26.0	24.0	Yellow	51.0360b; 51.0383b; 41.0492l; 41.0491a	Outer sheath: 51.0519b Inner sheath: 51.0517b Obturator: 51.0382b	51.0319b
28.0	27.0	Black	51.0360b; 51.0383b; 41.0492l; 41.0491a	Outer sheath: 51.0529b Inner sheath: 51.0527b Obturator: 51.0303b	51.0318b

Resectoscope sheath, continuous flow, with rotatable inner sheath and blunt obturator					
22.0	19.0	White	51.0359b; 51.0366b	Outer sheath: 51.0313b Inner sheath: 51.0315b Obturator: 51.0304b	51.0311b
26.0	24.0	Yellow	51.0360b; 51.0383b; 41.0492l; 41.0491a	Outer sheath: 51.0520b Inner sheath: 51.0518b Obturator: 51.0382b	51.0320b
28.0	27.0	Black	51.0360b; 51.0383b; 41.0492l; 41.0491a	Outer sheath: 51.0530b Inner sheath: 51.0528b Obturator: 51.0303b	51.0322b

Fr.	Color code	To working unit	Order number

Resectoscope sheath with central valve and standard obturator

24.0	Yellow	51.0360b; 51.0383b	42.0410b
27.0	Black	51.0360b; 51.0383b	42.0400b

Resectoscope sheath with standard obturator

19.0	White	51.0359b; 51.0366b	51.0312b
24.0	Yellow	51.0360b; 51.0383b; 41.0492l; 41.0491l	42.0200b
27.0	Black	51.0360b; 51.0383b; 41.0492l; 41.0491l	42.0205b

2 Obturators

Color code	To sheaths	Order number

Visual obturator for resectoscope sheaths

White	19.0 Fr. - 22.0 Fr.: 51.0310b; 51.0311b; 51.0312b	51.0314b
Yellow	24.0 Fr.: 51.0319b; 51.0320b; 42.0410b; 42.0200b	42.0370b
Black	27.0 Fr.: 51.0318b; 51.0322b; 42.0400b; 42.0205b	42.0375b

Obturator with movable tip for resectoscope sheaths

Yellow	24.0 Fr.: 51.0319b; 51.0320b; 42.0410b; 42.0200b	42.0371b
Black	27.0 Fr.: 51.0318b; 51.0322b; 42.0400b; 42.0205b	42.0372b

Color code	To sheaths	Order number

Visual obturator for flexibel instruments, with 6.0 Fr. working channel

Yellow	24.0 Fr.: 51.0319b; 51.0320b; 42.0410b; 42.0200b	42.0369b

Working insert for flexibel instruments, with 7 Fr. working channel

	24.0 Fr.: 51.0319b; 51.0320b; 42.0410b; 42.0200b	42.0368b

HF-Electrodes, monopolar, single steam

For use with resectoscope working units and resectoscope sheaths, 1 box = 5 pieces.

		Order number for 19.0 Fr. White	Order number for 24.0 Fr. Yellow	Order number for 27.0 Fr. Brown
	Loop electrode, 30° angled	51.0385d	51.0385b	51.0385c
	Loop electrode, 90° angled, for 0° endoscopes only	-	51.0330b	51.0330c
	Loop electrode, straight	51.0391d	51.0391b	51.0391c
	Rollerball electrode, 3.0 mm	51.0387d	51.0387b	51.0387c
	Rollerball electrode, 5.0 mm	-	51.0392b	51.0392c
	Knife electrode, angled	51.0386d	51.0386b	51.0386c
	Knife electrode, straight	-	51.0388b (Color code white)	-
	Vaporisation electrode, 3.0 mm, checkered	-	51.0390b	51.0390c
	Vaporisation electrode, 5.0 mm, checkered	-	51.0325b	51.0325c
	Strip electrode	-	51.0332b	-
Set, consisting of (one piece of each): 51.0392b, 51.0385b , 51.0325b , 51.0387b , 51.0386b		-	51.0396a	-

similar image

Laser Resectoscopy

In search of a better treatment of prostate patients, a gentle and effective resection of the prostate was developed thanks to the latest laser technology. Today, laser resectoscopy applies for an excellent alternative to conventional HF-resection. The laser radiation is transported via a glass fiber probe from the laser unit to the tip of the resectoscope and vaporizes the prostate tissue in an accurate and controlled fashion.

The LUT laser resectoscope working unit, passive acting, guides the glass fiber probe safe and accurate. The probe can be easily adjusted by a push button on the side of the working unit. Our recommended LUT endoscope in 4.0 mm/ 30° offers best image conditions. A rotatable continuous flow sheath completes the set.

Description	Order number

Laser resectoscope	
Laser resectoscope set, with working unit and 4 guide elements in 0.8 mm, 1.0 mm, 1.2 mm and 1.4 mm	41.0492l
Laser resectoscope working unit (without guide elements)	41.0491l
Guide element (with retractor) 0.8 mm	41.0470a
Guide element (with retractor) 1.0 mm	41.0471a
Guide element (with retractor) 1.2 mm	41.0472a
Guide element (with retractor) 1.4 mm	41.0473a

Suitable sheaths, see page 34.
We would be pleased to recommend a set for laser resectoscopy, suitable laser probes and laser units on request.

Laser Cystoscopy

Laser technology is nowadays also employed for cystoscopy. With the LUT continuous-flow laser cystoscope-urethroscope sheath an instrument for use in the lower urinary tract was developed. The inner sheath has a generous, integrated working channel and therefore guides instruments as well as the glass fiber probe for laser treatment safely to the tip of the sheath. The necessary cooling effect for the probe as well as a clear view during operation is provided by a continuous flow system which offers steady irrigation conditions.

The appropriate LUT endoscope in 4.0 mm / 30° offers best image condition without distortions. A visual obturator for the introduction of the cystoscope under sight completes the set.

Fr.	Color code	Order number

Laser cystoscope-urethroscope sheath, continuous flow, with standard obturator and inner sheath with 8 Fr. working channel

23.0	Blue	41.0650a

Visual obturator, for laser cystoscope-urethroscope sheath

	41.0654a

Recommended Set

	Order number
Endoscope, 4.0 mm / 30°	41.0055a
Laser cystoscope-urethroscope sheath	41.0650a
Visual obturator	41.0654a

2 Cysto-Urethroscope Sheaths, Obturators, Working Inserts

Cystoscope-urethroscope sheath for adults, with 2 fixed stop-cocks for continuous flow, with blunt obturator

Fr.	Color code	To endoscopes Ø / length	Order number
17.0	Yellow	4.0 mm / 302 mm	41.0619a
19.0	Green	4.0 mm / 302 mm	41.0622a
21.0	Red	4.0 mm / 302 mm	41.0406a
23.0	Blue	4.0 mm / 302 mm	41.0625a
25.0	White	4.0 mm / 302 mm	41.0626a

Visual obturator for cystoscope-urethroscope sheaths

Color code	To sheath Ø	Order number
Yellow	17.0 Fr.: 41.0619a	42.0380a
Green	19.0 Fr.: 41.0622a	42.0377a
Red	21.0 Fr.: 41.0406a	42.0376a
Blue	23.0 Fr.: 41.0625a	42.0378a
White	25.0 Fr.: 41.0626a	42.0379a

Description	Capacity* with 19.0 Fr. sheath	Capacity* with 21.0 Fr. sheath	Capacity* with 23.0 Fr. sheath	Capacity* with 25.0 Fr. sheath	Order number

Working insert with ALBARRAN lever, with raster and 1 instrument channel

Working unit	1x6.0 Fr.	1x7.0 Fr.	1x9.0 Fr.	1x12.0 Fr.	41.0420a

Working insert with ALBARRAN lever, with raster and 2 instrument channels, with bend protection

Working unit	2x5.0 or 1x6.0 Fr.	2x5.0 or 1x7.0 Fr.	2x6.0 or 1x9.0 Fr.	2x8.0 or 1x12.0 Fr.	41.0421a

	Order number

Sealing adapter for cystoscopy at women

	42.0373a

2 Examination Inserts

Description	To sheaths	Capacity* with 17.0 Fr. sheath	Capacity* with 19.0 Fr. sheath	Capacity* with 21.0 Fr. sheath	Capacity* with 23.0 Fr. sheath	Capacity* with 25.0 Fr. sheath	Order number

Examination insert for diagnostic

Telescope bridge	41.0619a; 41.0622a; 41.0406a; 41.0625a; 41.0626a						41.0422a

Examination insert for therapy, with 1 instrument channel

Telescope bridge		1 x 5.0 Fr.	1 x 6.0 Fr.	1 x 8.0 Fr.	1 x 10.0 Fr.	1 x 12.0 Fr.	41.0424a

Examination insert for therapy, with 2 instrument channels

Telescope bridge		2 x 4.0 or 1 x 5.0 Fr.	2 x 5.0 or 1 x 6.0 Fr.	2 x 6.0 or 1 x 8.0 Fr.	2 x 7.0 or 1 x 10.0 Fr.	2 x 8.0 or 1 x 12.0 Fr.	41.0425a

* for flexible instruments

Fr.	Working length mm	Order number

Biopsy forceps, oval spoon, cutting

3.0	400	42.0086a
4.0	400	42.0087a
5.0	400	51.0346a
7.0	400	51.0348a

Scissors, single action jaws

3.0	400	42.0088a
4.0	400	42.0365a
5.0	400	51.0372a
7.0	400	51.0374a

Fr.	Working length mm	Order number

Grasping forceps, alligator jaws

3.0	400	42.0361a
4.0	400	42.0089a
5.0	400	51.0376a
7.0	400	51.0378a

Biopsy forceps, spoon, serrated

5.0	400	51.0354a
7.0	400	51.0355a

Foreign body grasping forceps, stones and fragments

4.0	400	42.0091a
5.0	400	42.0092a
7.0	400	51.0338a

2 Optical Instruments, Forceps and Scissors

	Description	For use with endoscope	Order number
Optical instruments for cystoscope-urethroscope sheaths 19.0 - 25.0 Fr.			
	Biopsy forceps, double action jaws	4.0 mm Ø, 0°/12°	42.0351a
	Stone grasping forceps, double action jaws	4.0 mm Ø, 0°/12°	42.0352a
	Biopsy punch, through-cutting, double action jaws	4.0 mm Ø, 0°/12°	42.0353a
	Scissors, double action	4.0 mm Ø, 0°/12°	42.0357a
	Biopsy forceps, down, double action jaws	4.0 mm Ø, 12°/30°	42.0358a

Adapter for use with resectoscope sheaths 24 - 27 Fr.			
	Adapter for optical instruments		42.0359a

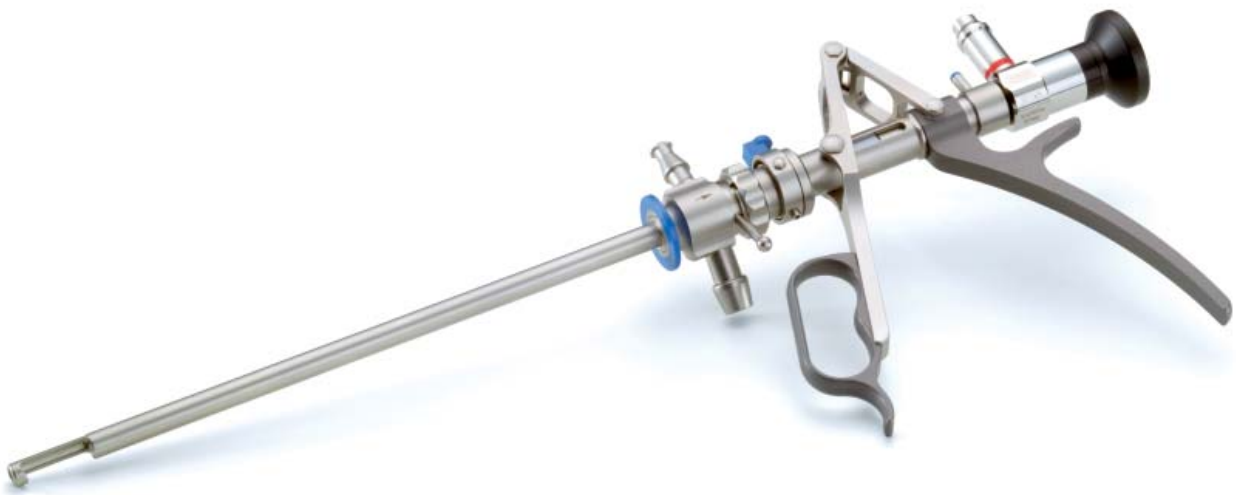
Description	To sheath	For use with endoscope	Order number

Optical stone grasping forceps for cystoscope-urethroscope sheath 25.0 Fr. for lithotripsy of small stones or capturing of stone fragments after therapy with lithotripter

Stone forceps	41.0626a	4.0 mm Ø, 30°	42.0350a

Adapter for use with stone grasping forceps for adaption to resectoscope outer sheaths 26 - 28 Fr.

Adapter	51.0519b; 51.0520b		42.0349a



Punch Lithotripsy

Today, stones in the urinary bladder can mostly be treated successfully by endoscopy. With the optical stone punch of LUT very hard stones are broken mechanically under sight.

Operating the hand piece, the inner sheath is drawn backwards and the stone is fixed. Drawing further the stone is broken. If a sheath with central stop cock is used the punched stone fragments can be rinsed immediately. The working element exerts high force on the stone and is therefore especially suitable for hard stones. The adequate LUT endoscopes in 4.0 mm/30° provide optimal sight and excellent pictures for this purpose.

Fr.	Working channel Fr.	For endoscope	To sheaths	Order number

Working unit for punch lithotripsy – optical stone punch

		4.0 mm Ø, 30°	42.0342a; 42.0343a	42.0340a

Lithotripsy standard sheath for optical stone punch, with central valve and standard obturator

24.0				42.0342a

Lithotripsy standard sheath with standard obturator for optical stone punch

24.0				42.0343a

Examination insert, inner sheath, with working channel for flexible instruments

	7.0		42.0342a; 42.0343a	42.0344a

Optical Urethrotomy

Optical urethrotomy is an endoscopic procedure for the treatment of urethral strictures. The most popular treatment options are the urethrotomy by SACHSE where a cold knife is introduced under sight. The narrowed site will be slit until the normal width of the urethra is reached again.

Fr.	Instrument channel Fr.	To endoscope	To urethrotome sheath	Order number

Working unit passive, with guide tube for cold knives

		4 mm/302 mm, 30°	42.0450a	51.0360b

Urethrotome sheath, scaled, with side instrument channel and hollow obturator

21.0	5.0			42.0450a

Standard obturator

			42.0450a	42.0456a

Hollow obturator for 5 Fr. guiding catheter

			42.0450a	42.0451a

2 Sheaths, Obturators, Cold Knives

	With channel Fr.	To urethrotome sheath	Order number

Visual obturator

		42.0450a	42.0462a

Additional sheath for continuous flow

		42.0450a	42.0454a

Additional sheath, side-opened, as guide tube for insertion of balloon catheter

		42.0450a	42.0453a

Examination insert with one instrument channel

Telescope bridge	1 x 5.0	42.0450a	42.0452a

Cold knives, single stern

For use with optical urethrotome working unit. Safety note: Do not use cold knives with HF-current!

	Description	Order number
	Knife straight	42.0455b
	Knife straight, wave cut	42.0457b
	Knife round	42.0458b
	Knife hook shaped	42.0465b
	Knife round shaped	42.0470b

Sterilization- and cleaning accessories, see page 114.

Description	Order number

Penis clamp

STRAUSS	42.0440a

Catheter introducing instrument

GUYON, 390 mm, straight	42.0442a

Catheter tightener and introducing instrument

GUYON, 350 mm, curved	42.0443a

Description	Order number

Evacuator, ELLIK

Complete, with glassbowl and pressure and suction ball	42.0459a
Glassbowl only	42.0463a
Pressure and suction ball only	42.0464a

Sheath connection

Hose with cone	42.0460b

Sheath connection

Hose with locking device	42.0461b

Sheath connector

With quick-lock	42.0345b

2 Instruments and Accessories

Description	Order number

Bladder syringe, with locking device

50 ml Complete	42.0430a
75 ml Complete	42.0431a
100 ml Complete	42.0432a
150 ml Complete	42.0433a
200 ml Complete	42.0434a

Hose connector

Luer lock, with stop cock	42.0471a

Hose connector

Luer lock	42.0472a

Hysteroscopy

Hysteroscopy is an endoscopic examination method for observing the uterus. Through the cervix, a hysteroscope is introduced in the cavity of the uterus and allows a transvaginal observation of the inner face of the uterus. If pathological findings are detectable, instruments can be inserted via the working channel of the hysteroscopy sheath and curettage of the uterus, a biopsy or a surgical hysteroscopy can be performed.

LUT hysteroscope sheaths for surgical or diagnostic purposes are available in different versions.
Additional instruments, devices and electrodes complete the product range.

Operative hysteroscope sheath – one-piece

Continuous flow, with atraumatic distal end, two stop cocks and one working channel. High flow capacity due to one-piece design.

Consisting of: one single sheath.

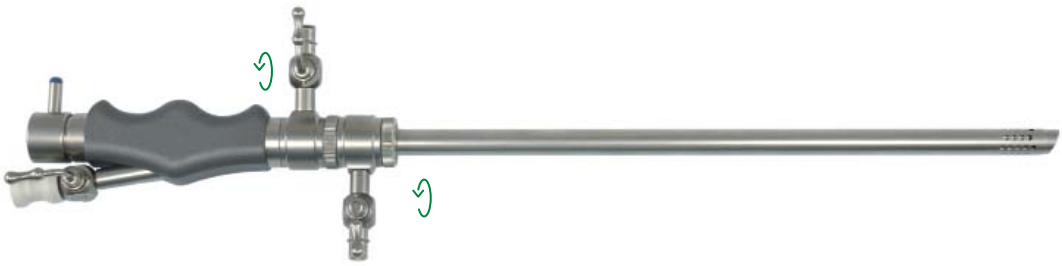
Outer diameter in mm	Color code	To endoscope (Order number)	Working channel	Sheath form	Order number
5.5	Red	2.9 mm / 302mm / 12° (41.0166a)	5 Fr. Straight	Round	51.0431a.n
5.5	Red	2.9 mm / 302 mm / 30° (41.0161a)	5 Fr. Straight	Round	51.0431a.n
5.5	Red	2.9 mm / 302mm / 12° (41.0166a)	5 Fr. Curved	Round	51.0431a.n.g
5.5	Red	2.9 mm / 302 mm / 30° (41.0161a)	5 Fr. Curved	Round	51.0431a.n.g

Operative hysteroscope sheath

Continuous flow, with atraumatic distal end, two
stop cocks and one working channel for flexible and semi rigid instruments.

Consisting of: one continuous-flow operative sheath and one operative-examination sheath with working channel.

Outer diameter in mm	Color code	To endoscope (Order number)	Working channel in Fr.	Outer and inner sheath form	Order number
4.3	Red	2.0 mm / 258 mm / 30° (11.0475a)	5	Oval	51.0400a
5.0	White	2.9 mm / 302 mm / 12° (41.0166a)	5	Drop-shaped	51.0431a
5.0	White	2.9 mm / 302 mm / 30° (41.0161a)	5	Drop-shaped	51.0431a
6.5	Blue	4.0 mm / 302 mm / 30° (41.0055a)	5	Drop-shaped	51.0469a
7.0	Green	4.0 mm / 302 mm / 30° (41.0055a)	7	Drop-shaped	51.0468a



Operative hysteroscope sheath

Continuous flow, with 1 stop cock at working channel, 2 rotatable cocks for separate suction and irrigation and one working channel.

Consisting of: one operative sheath with integrated handle and working channel as well as detachable suction-irrigation plugs.

Outer diameter in mm	To endoscope (Order number)	Working channel in Fr.	Order number
6.5	2.9 mm / 302 mm / 0° (41.0160a)	5	51.0357a
6.5	2.9 mm / 302 mm / 12° (41.0166a)	5	51.0358a
6.5	2.9 mm / 302 mm / 30° (41.0161a)	5	51.0358a
8.0	4.0 mm / 302 mm / 0° (41.0049a)	7	51.0361a
8.0	4.0 mm / 302 mm / 30° (41.0055a)	7	51.0363a

Operation hysteroscope sheath, continuous flow, with 1 stop cock at working channel, 2 fixed cocks for separate suction and irrigation and one working channel.

7.5	4.0 mm / 302 mm / 30° (41.0055a)	7	51.0362a

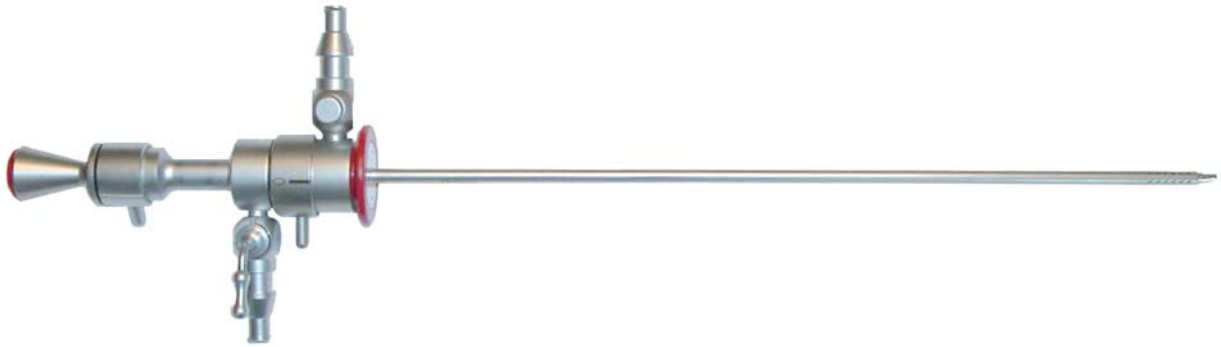
2 Diagnostic Hysteroscope Sheaths

Diagnostic hysteroscope sheath

Examination sheath with atraumatic distal end and one rotatable stop cock.

Consisting of: one examination sheath and one blunt obturator.

Diameter in mm	Color code	To endoscope (Order number)	Working length mm	Order number
2.9	Red	2.0 mm / 258 mm / 0° (11.0480a)	225	51.0401a
2.9	Red	2.0 mm / 258 mm / 30° (11.0475a)	225	51.0403a
3.7	White	2.9 mm / 302 mm / 0° (41.0160a)	270	51.0408a
3.7	White	2.9 mm / 302 mm / 12° (41.0166a)	270	51.0409a
3.7	White	2.9 mm / 302 mm / 30° (41.0161a)	270	51.0409a
5.0	Blue	4.0 mm / 302 mm / 0° (41.0049a)	270	51.0367a
5.0	Blue	4.0 mm / 302 mm / 30° (41.0055a)	270	51.0364a



Diagnostic hysteroscope sheath

Continuous flow, with atraumatic distal end and two stop cocks.

Consisting of: one continuous-flow outer sheath, one examination inner sheath and one blunt obturator.

Outer diameter in mm	Color code	To endoscope (Order number)	Working length mm	Order number
3.4	Red	2.0 mm / 258 mm / 0° (11.0480a)	225	51.0428a
3.4	Red	2.0 mm / 258 mm / 30° (11.0475a)	225	51.0429a
5.0	White	2.9 mm / 302 mm / 0° (41.0160a)	270	51.0435a
5.0	White	2.9 mm / 302 mm / 12° (41.0166a)	270	51.0430a
5.0	White	2.9 mm / 302 mm / 30° (41.0161a)	270	51.0430a
6.5	Blue	4.0 mm / 302 mm / 0° (41.0049a)	270	51.0432a
6.5	Blue	4.0 mm / 302 mm / 12° (41.0059a)	270	51.0432a
6.5	Blue	4.0 mm / 302 mm / 30° (41.0055a)	270	51.0434a

2 Flexible Electrodes and Instruments

Fr.	Working length mm	Order number

Flexible needle electrode, monopolor

3.0	450	42.0025a
5.0	450	42.0026a
7.0	450	42.0027a

Flexible coagulation electrode, ballshaped, monopolar

3.0	450	42.0032a
5.0	450	42.0033a
7.0	450	42.0034a

Flexible loop electrode, monopolar

5.0	450	42.0036a
7.0	450	42.0037a

HF-connection cable for flexible electrodes, 3 m

To LUT, Bowa, Conmed, Valleylab	05.0693r
To Martin, Aesculap	05.0645r
To Erbe ACC / ICC, Storz	05.0692r

	Description	Order number

Flexible instruments, 280 mm length, in 3 Fr.

	Biopsy forceps, oval spoon, cutting	42.0050a
	Biopsy forceps, double action, serrated	42.0052a
	Grasping forceps, double action, alligator jaw	42.0048a

2 Uterus Manipulator, Uterus Probe

Uterus Manipulator

During laparoscopic procedures the position of the uterus can be controlled with this manipulator. The uterus can be moved in different directions in order to make all areas visible. Different manipulator tips allow a precise adaption to anatomy.

	Description	Ø x Working length	Order number
	Manipulator set, base unit with 6 working tips		42.0491a
	Base unit only, without working tip		42.0490a*
	Uterus obturator, thin, short	3.0 mm x 45 mm	42.0492a*
	Uterus obturator, thin, long	3.0 mm x 55 mm	42.0493a*
	Cone, with short thorn	3.2 mm x 35 mm	42.0494a*
	Cone, with long thorn	3.2 mm x 45 mm	42.0495a*
	Uterus obturator, medium, long	8.0 mm x 80 mm	42.0496a*
	Uterus obturator, thick, extra long	10.0 mm x 100 mm	42.0497a*

*Only for replacement

Working length mm	Description	Order number

Uterus probe, graduated

320	Bendable	51.0449a

High quality material

Precisely manufactured and ergonomically designed

Engineered in Germany

3

Recommended Sets/ Instruments for Laparoscopic Interventions

Appendectomy

Appendicitis is the inflammation of the worm-shaped hollow pouch attached to the cecum. Through its anatomy, it offers an ideal culture medium for foreign objects, which causes the development of bacterial infections.

In this field minimal invasive laparoscopic surgery is the most advanced method. By an incision to the right lower abdomen the hollow pouch (appendix) is removed patient-friendly.

For a clean and easy ablation LUT provides a comprehensive armamentarium consisting of laparoscopes, trocar sleeves, trocars, cannulas as well as different grasping and cutting instruments. Suitable cameras and light sources complete the range of products.

Recommended Set for Appendectomy

	Order number	See page
Laparoscope, 10.0 mm / 0°	11.0031a	11
Laparoscope, 10.0 mm / 30°	11.0043a	11
Trocar sleeve, 11.0 mm	11.0506a	76
Trocar sleeve, 5.5 mm	11.0504a	76
Trocar, 11.0 mm, pyramidal	11.0507a	77
Trocar with hollow cut, 5.5 mm	11.0496a.m2	77
Trocar, 5.5 mm, pyramidal	11.0505a	77
Veress cannula, 2.0 mm/100 mm	w3020	78
Palpation	s720218	78
Suction-Irrigation cannula, 5.0 mm/340 mm	s720146	84
Cobra grasping forceps 5.0 mm/340 mm	12.0519a	92
Scissor METZENBAUM 5.0 mm/340 mm	12.0545a	96
Grasping forceps MARYLAND 5.0 mm/340 mm	12.0546a	91
Grasping and dissector forceps, 5.0 mm/340 mm	12.0550as	94
Grasping forceps KELLY, 5.0 mm/340 mm	12.0551a	94
Fundus grasping forceps 5.0 mm/340 mm	12.0578a	91
Cable, bipolar, silicone	s360137	105
High frequency cable, monopolar	05.0657r	99
Knotguide with eyelet, 4.0 mm/330 mm	12.0152a	108
Needle holder, 5.0 mm/340 mm, long jaw	12.0105a	109
Needle holder, 5.0 mm/340 mm, jaw bent right	12.0106a	109

3 Trocar Systems

Ø mm	Color code	Working length mm	Order number

Trocar sleeve, with silicone valve and insufflation stop cock, metal tube, detachable

3.5	Red		11.0544a.m2
5.5	Red		11.0299a.m2
11.0	Blue		11.0312a.m2

Trocar sleeve, with manual trap door valve and insufflation stop cock, metal tube, detachable

3.5	Red		11.0503a
5.5	Red		11.0504a
11.0	Blue		11.0506a

Reduction sleeve, suitable to all LUT trocar sleeves

5.0 to 4.0		175	s720308
10.0 to 5.5		190	s720311
15.0 to 10.0		190	s720318

Sliding reducer, suitable to all LUT trocar sleeves

12.5/11.0/10.0 to 5.5	Red		11.0335a

Spare parts sterilization- and cleaning accessories, see page 142ff.

Ø mm	Suitable to	Order number

Trocar with hollow cut, pyramidal

5.5	11.0299a.m2; 11.0504a	11.0496a.m2
11.0	11.0312a.m2; 11.0506a	11.0498a.m2

Trocar, pyramidal

3.5	11.0503a	11.0508a
5.5	11.0299a.m2; 11.0504a	11.0505a
11.0	11.0312a.m2; 11.0506a	11.0507a

Trocar, conical

5.5	11.0299a.m2; 11.0504a	11.0525a
11.0	11.0312a.m2; 11.0506a	11.0526a

Safety trocar, fixable, with pyramidal cut, obturator tip rounded

5.5	11.0299a.m2; 11.0504a	11.0324a
11.0	11.0312a.m2; 11.0506a	11.0316a

3 Accessories to Trocars; Veress cannula

Ø mm	Working length mm	Order number

Veress cannula, with stop cock and Luer lock

2.0	100	w3020
2.0	120	w3021
2.0	150	w3022

Dilatation set

5.0 to 10.0	s720329
10.0 to 15.0	s720333
10.0 to 20.0	s720323

Dilatation stick, only

5.0	s720324
10.0	s720325

Palpation probe, graduated

5.0	330	s720218

Cholecystectomy

In a cholecystectomy, the gallbladder is removed by laparoscopy.

The laparoscopic resection of the gallbladder is a standard treatment and it is one of the most commonly performed operations in minimally invasive visceral surgery.

For this intervention LUT provides a comprehensive set of instruments consisting of laparoscopes, trocar sleeves, trocars, high-frequency electrodes, cannulas, elevators as well as grasping and cutting instruments. Corresponding cameras and light sources fulfill the wide range of products.

Recommended Set for Cholecystectomy

	Order number	See page
Laparoscope, 10.0 mm / 0°	11.0031a	11
Trocar sleeve, 11.0 mm	11.0506a	76
Reduction sleeve, 10.0 to 5.5 mm/190 mm	s720311	76
Trocar, 11.0 mm, pyramidal	11.0507a	77
Pistol handle	s720247	86
Suction-Irrigation tube 5.0 mm/330 mm	s720249	86
Handle for monopolar electrodes	12.0730a	88
Electrode, monopolar, L-Hook	12.0722a	88
Abdominal retractor	s720207	82
Cholangiography forceps, 5.0 mm/330 mm	s720287	82
Fan retractor, 5.0 mm/400 mm	12.0581a	83
Puncture needle for aspiration, 5.0 mm/330 mm	s720219	84
Scissors METZENBAUM 5.0 mm/340 mm	12.0545a	96
Grasping forceps MARYLAND 5.0 mm/340 mm	12.0546a	91
Grasping forceps KELLY, 5.0 mm/340 mm	12.0551a	94
Fundus grasping forceps 5.0 mm/340 mm	12.0578a	91
Grasping forceps, 5.0 mm/330 mm, serrated	12.0520a	92
Fenestrated forceps, 5.0 mm/330 mm, heavy serrated	12.0561a	93
Cable, bipolar, silicone	s360137	105
High frequency cable, monopolar	05.0657r	99
Clip applying forceps, detachable, Ø 10.0 mm	12.zem	107
Needle holder, 5.0 mm/340 mm, jaw bent right	12.0106a	109

Ø mm	Working length mm	Order number

Abdominal retractor for extraction of the gallbladder

		s720207

Claw grasping and extraction forceps, 2x3 teeth, with finger support and restoring spring, single action jaws

5.0	330	s720284
10.0	330	s720285

Cholangiography forceps for catheters in 6.0 Fr., double action jaws

5.0	330	s720287

Ø mm	Working length mm	Finger	Order number

Fan retractor with double function, spreading and lifting, detachable

5.0	400	3	12.0581a

Fan retractor with double function, spreading and lifting, detachable

10.0	380	5	12.0580a

3 Suction-Irrigation Cannulas

Ø mm	Working length mm	Needle Ø mm	Order number

Suction-irrigation cannula with 2 trumpet valves and square handle

5.0	340		s720146

Laser guiding tube with luer lock, suitable to suction-irrigation cannula s720146

	391		s720145

Puncture needle for aspiration, punction needle, needle length 20 mm

5.0	330	1.4	s720219
5.0	330	1.8	s720220

	Description	Ø mm	Working length mm	Order number
				

Suction-Irrigation handle; suitable to all below mentioned tubes

	With hose connection			s720221
	With Luer lock connection			s720222
	With sliding valve and hose connection			s720223

Suction-Irrigation tubes to above handles, tubes only

	Suction tube with 4 holes	5.0	330	s720230
	Suction tube with 16 holes	5.0	327.5	s720231
	Suction tube with 32 holes	10.0	330	s720232
	Suction tube with 48 holes	5.0	330	s720233

3 Pistol Handle for Suction-Irrigation

Pistol handle

There are two different kinds to use: You can use this pistol handle for suction-irrigation or for monopolar coagulation. This pistol handle comes with 2-way sliding valve.

Description	Ø mm	Working length mm	Order number
			
Suction-Irrigation tube	3.0	330	s720248
Suction-Irrigation tube	5.0	330	s720249
Suction-Irrigation tube	10.0	330	s720254
Pistol handle			s720247

3 Electrodes – Monopolar

Electrode, monopolar, with insulated sheath

	Description	Ø mm	Working length mm	Order number
	Handle for monopolar electrodes			12.0730a
	Spatula	5.0	330 450	12.0720a 12.0720a.l
	J-Hook	5.0	330 450	12.0721a 12.0721a.l
	L-Hook	5.0	330 450	12.0722a 12.0722a.l
	Ballpoint	5.0	330 450	12.0723a 12.0723a.l
	Needle	5.0	330 450	12.0724a 12.0724a.l

3 Rotatable Forceps, Scissors and Clamps; Detachable

Laparoscopy Instruments

The new generation of the LUT laparoscopy instruments are rotatable, easy to detach as well as fully autoclavable. A safe handling and working even with high frequency power is guaranteed due to an insulated sheath construction of the instruments.

Biopsy forceps with thorn, double action jaws

Ø mm	Working length mm	Order number With ratchet	Order number Without ratchet
3.0	270	12.0567as	12.0567a
5.0	330	12.0512as	12.0512a
10.0	330	12.0514as	12.0514a

Fenestrated forceps, fine serrated, single action jaws

3.0	270	12.0568as	12.0568a
5.0	330	12.0515as	12.0515a
10.0	330	12.0516as	12.0516a

Grasping forceps MARYLAND, double action jaws

Ø mm	Working length mm	Order number With ratchet	Order number Without ratchet
3.0	270	12.0572as	12.0572a
5.0	330	12.0546as	12.0546a
10.0	330	12.0517as	12.0517a

Grasping forceps MIXTER, 90°, double action jaws

3.0	270	12.0521as	12.0521a
5.0	330	12.0573as	12.0573a
10.0	330	12.0595as	12.0595a

Fundus grasping forceps, double action jaws

3.0	270	12.0526as	12.0526a
5.0	330	12.0578as	12.0578a
10.0	330	12.0527as	12.0527a

Spoon forceps, fine serrated, double action jaws

3.0	270	12.0528as	12.0528a
5.0	330	12.0518as	12.0518a
10.0	330	12.0529as	12.0529a

3 Rotatable Forceps, Scissors and Clamps; Detachable

Spoon forceps, double action jaws

Ø mm	Working length mm	Order number With ratchet	Order number Without ratchet
3.0	270	12.0530as	12.0530a
5.0	330	12.1090as	12.1090a
10.0	330	12.0531as	12.0531a

Dolphin nose grasping forceps, double action jaws

3.0	270	12.0532as	12.0532a
5.0	330	12.0508as	12.0508a
10.0	330	12.0533as	12.0533a

Cobra grasping forceps, 2x3 teeth, single action jaws

3.0	270	12.0534as	12.0534a
5.0	330	12.0519as	12.0519a
10.0	330	12.0535as	12.0535a

Grasping forceps serrated, double action jaws

3.0	270	12.0536as	12.0536a
5.0	330	12.0520as	12.0520a
10.0	330	12.0537as	12.0537a

Grasping forceps ALLIS, double action jaws

Ø mm	Working length mm	Order number With ratchet	Order number Without ratchet
3.0	270	12.0538as	12.0538a
5.0	330	12.0522as	12.0522a
10.0	330	12.0539as	12.0539a

Atraumatic forceps, single action jaws

3.0	270	12.0548as	12.0548a
5.0	330	12.0523as	12.0523a
10.0	330	12.0559as	12.0559a

Fenestrated forceps, heavy serrated, double action jaws

3.0	270	12.0582as	12.0582a
5.0	330	12.0561as	12.0561a
10.0	330	12.0586as	12.0586a

Fenestrated forceps, fine serrated, double action jaws

3.0	270	12.0587as	12.0587a
5.0	330	12.0562as	12.0562a
10.0	330	12.0588as	12.0588a

3 Rotatable Forceps, Scissors and Clamps; Detachable

Ø mm	Working length mm	Order number With ratchet	Order number Without ratchet

Biopsy forceps with thorn, single action jaws

3.0	270	12.0498as	12.0498a
5.0	330	12.0549as	12.0549a
10.0	330	12.0497as	12.0497a

Grasping and dissector forceps, double action jaws

3.0	270	12.0496as	12.0496a
5.0	330	12.0550as	12.0550a
10.0	330	12.0495as	12.0495a

Grasping forceps KELLY, double action jaws

3.0	270	12.0494as	12.0494a
5.0	330	12.0551as	12.0551a
10.0	330	12.0493as	12.0493a

Bowel forceps, fenestrated, grooved, double action jaws

3.0	270	12.0492as	12.0492a
5.0	330	12.0583as	12.0583a
10.0	330	12.0491as	12.0491a

Ø mm	Working length mm	Order number With ratchet	Order number Without ratchet

Grasping forceps, fine serrated, single action jaws

3.0	270	12.0589as	12.0589a
5.0	330	12.0563as	12.0563a
10.0	330	12.0591as	12.0591a

Alligator forceps, double action jaws

3.0	270	12.0592as	12.0592a
5.0	330	12.0564as	12.0564a
10.0	330	12.0593as	12.0593a

Clamp BABCOCK, double action jaws

3.0	270	12.0594as	12.0594a
5.0	330	12.0565as	12.0565a
10.0	330	12.0566as	12.0566a

Grasping forceps, retrograde, double action jaws

3.0	270	12.0596as	12.0596a
5.0	330	12.0547as	12.0547a
10.0	330	12.0499as	12.0499a

3 Rotatable Forceps, Scissors and Clamps; Detachable

Scissors METZENBAUM, straight, double action jaws

Ø mm	Working length mm	Order number With ratchet	Order number Without ratchet
3.0	270	-	12.0570a
5.0	330	-	12.0544a
10.0	330	-	12.0490a

Scissors METZENBAUM, curved, double action jaws

3.0	270	-	12.0571a
5.0	330	-	12.0545a
10.0	330	-	12.0489a

Hook scissors, single action jaws

3.0	270	-	12.0488a
5.0	330	-	12.0540a
10.0	330	-	12.0487a

3 Handles, Sheath Tubes and Monopolar Cables

Description	Order number

Handle, plastic, rotatable, with ratchet

12.0001a

Handle, plastic, rotatable, without ratchet

12.0002a

Other lengths e.g. 450 mm, jaws and handles are available on request.

Ø mm	Working length mm	Order number

Sheath tube, insulated, to modular instrument system

5.0	330	12.0003a
10.0	330	12.0010a

Plug, instrument side	Plug, generator side	For generator type	Order number

High frequency cable, monopolar, 3 m length

	 5.0 mm Ø	Erbe ACC / ICC	05.0655r
	 4.0 mm Ø	Berchtold Erbe Martin	05.0656r
	 8.0 mm Ø	Bovie Bowa Conmed LUT Medtrex Valleylab	05.0657r

3 Bipolar Coagulation Forceps, Detachable

Bipolar Coagulation Forceps

Precise coagulation, powerful grasping and exact cutting is possible due to a newly developed mechanism of opening and closing of the jaws. These instruments are easy to handle and the different electrode inserts can be exchanged in only a few seconds.

	Description	Ø mm	Working length mm	Order number Insert only	Order number Complete
Bipolar coagulation forceps, complete (handle, insert and sheath tube)					
	Grasping forceps MARYLAND	5.0	340	12.0612a.insert	12.0612a
	Scissors METZENBAUM, curved	5.0	340	12.0613a.insert	12.0613a
	Grasping forceps, fenestrated	5.0	340	12.0614a.insert	12.0614a

	Description	Ø mm	Working length mm	Order number Insert only	Order number Complete
	Grasping forceps, fenestrated, pointed	5.0	340	12.0615a.insert	12.0615a
	Grasping forceps, fenestrated, curved	5.0	340	12.0616a.insert	12.0616a
	Tweezers, curved	5.0	340	12.0617a.insert	12.0617a

Ø mm	Working length mm	Order number
		
Handle, only		
5.0		12.0610a
		
Sheath tube, only		
5.0	340	12.0611a

3 Bipolar Coagulation Forceps, Detachable

Bipolar Coagulation Forceps

Detachable and reusable instrument which enables to grasp powerful and to cut tissue accurately while having a bipolar coagulation. The 360°-rotatability allows to work without the receding of the jaw when closing. These instruments can be exchanged in only a few secounds. Thus it is very easy to handle.

	Description	Ø mm	Working length mm	Order number Insert only	Order number Complete
Bipolar coagulation forceps, complete (ring handle, insert, sheath tubes and adapter)					
	Rippled bar	5.0	340	12.0656a.insert	12.0656a
	Tweezer, 1. mm	5.0	340	12.0657a.insert	12.0657a
	KLEPPINGER, serrated	5.0	340	12.0658a.insert	12.0658a
	Tong-type bit, 3 mm	5.0	340	12.0659a.insert	12.0659a

	Description	Ø mm	Working length mm	Order number Insert only	Order number Complete
	Scissors, curved	5.0	340	12.0660a.insert	12.0660a
	Scissors with TC blade, curved	5.0	340	12.0661a.insert	12.0661a
	Dissector MARYLAND, curved	5.0	340	12.0662a.insert	12.0662a

3 Bipolar Coagulation Forceps

Ø mm	Working length mm		Order number

Ring handle, only

5.0			12.0665a

Sheath tubes, only

5.0	340	Inner sheath	12.0666a
5.0	340	Outer sheath	12.0667a

Adapter, only

5.0			12.0671a

	Description	Ø mm	Working length mm	Order number
Coagulation electrode, bipolar, rotatable				
	L-Hook	5,0	340	s720126
	J-Hook	5,0	340	s720127
	Needle, 10 mm length	3,0	340	s720128

Plug, generator side	Suitable to generator type	Order number
		
Cable, bipolar, silicone, 4.5 m length		
	Aesculap Berchtold Martin Select (BM 780)	s360129
	Erbe ACC / ICC Select (BM 50) Wolf	s360141
	Bowa Erbe ICC International LUT U.S. Standard	s360137

3 Clip Applying Forceps

Clip Applying Forceps with suction channel

Rotatable, 330 mm working length.

Description	Suitable for	Order number
Clip applying forceps with suction channel, 5.0 mm Ø	PILLING-WECK, SLS and HORIZON	12.zes
Clip applying forceps with suction channel, 10.0 mm Ø	ETHICON titanclip medium	12.dem
Clip applying forceps with suction channel, 10.0 mm Ø	ETHICON titanclip medium large	12.deml
Clip applying forceps with suction channel, 10.0 mm Ø	ETHICON titanclip large	12.del

Clip applying forceps with suction channel for PILLING-WECK or HORIZON clips on request.

Clip Applying Forceps detachable

Rotatable, 330 mm working length.

Description	Suitable for	Order number
Clip applying forceps, detachable, 10.0 mm Ø	ETHICON titanclip medium	12.zem
Clip applying forceps, detachable, 10.0 mm Ø	ETHICON titanclip medium large	12.zeml
Clip applying forceps, detachable, 10.0 mm Ø	ETHICON titanclip large	12.zel

Clip applying forceps with suction channel for PILLING-WECK or HORIZON clips on request.

3 Knotguides and Needle Holders

Ø mm	Working length mm	Order number

Applicator for Endo-Ligature

4.0 - 5.0	175	12.0149a

Knotguide with eyelet

4.0	330	12.0152a

Knotguide with closed eyelet

4.0	330	12.0151a

Ø mm	Working length mm	Description	Order number

Needle holder with tungsten carbide insert, straight handle and rinsing channel

5.0	340	Short jaw	12.0101a

Needle holder with tungsten carbide insert, straight handle and rinsing channel

5.0	340	Long jaw	12.0105a

Needle holder with tungsten carbide insert, straight handle and rinsing channel

5.0	340	Jaw bent right	12.0106a

Needle holder with tungsten carbide insert, straight handle and rinsing channel

5.0	340	Jaw bent left	12.0107a

Other working lengths and 3.0 mm Ø on request.

Leading edge technology in High Definition

Ergonomical camera design

Powerful LED, Xenon and halogen light sources

4

Cameras / Light Sources / Monitors

Cameras

The eVision platform was designed to meet the highest standards in terms of image quality, robustness and ease-of-us. Combining the latest technology to a competitive and convincing product is what we call true innovation. The eVision product range can perfectly be combined with LUT endoscopes, light sources and light cables and customers can decide between different camera heads.

The eVision pro was the first Full HD CMOS camera that set new standards and with the eVision easy we continue this success story.

In addition to the eVision cameras, we offer a 3CCD camera system.

For suitable power cords, refer to page 145. If no specification is made, we will deliver a Euro power cord.

native
FULL HD
1080p

Full HD 1080p Camera eVision pro

Native Full HD image for best color and detail reproduction. Camera setting presets for several applications, light source remote control, and white balance. Customers can decide between three different camera heads, each with four individually programmable and illuminated function keys.

Camera controller
Outputs: 2 x DVI 1080p, 2 x HD-SDI 1080i, 1 x S-Video, 1 x CVBS, 2 x 3.5 mm remote control
Connectivity: bus interface
Camera head
Image sensor: 1/3” CMOS, progressive scan
Cable length: 4 m
Endocoupler: for standard eye piece
Function keys: 4 individually programmable and illuminated function keys
System
Image resolution: 1920 x 1080 pixels
Standard conformity: IEC/DIN EN 60601-1 Classification: CF/CE mark
100 - 240 V AC, 50/60 Hz
Dimensions / Weight
Camera controller: (W/H/D) 295 x 100 x 356 mm
Weight: camera head 0.2 - 0.335 kg, camera controller approx. 5,2 kg

Camera controller Full HD 1080p Camera eVision pro	95.3400
Camera controller Full HD 1080p Camera eVision pro incl. camera head straight with Parfocal zoom, f = 14.25 - 28 mm	95.3411
Camera controller Full HD 1080p Camera eVision pro incl. camera head straight with fix focal length, f = 14.25 mm	95.3412
Camera controller Full HD 1080p Camera eVision pro incl. camera head Pendolino angulated 90°, f = 14.25 mm	95.3413
Camera head straight with Parfocal zoom, f = 14.25 - 28 mm	95.3011s
Camera head straight with fix focal length, f = 14.25 mm	95.3012s
Camera head Pendolino angulated 90°, f = 14.25 mm	95.3013s

Full HD 1080p Camera eVision easy

This native 1080p camera features high-end technology and delivers a true HD image, highest sensitivity and edge enhancement, high contrast and a real color reproduction. Two different camera heads are available with digital zoom. The USB-slot on the front panel of the camera controller features full HD image storage directly on an USB-stick.

Camera controller
Operation control panel: ON/OFF, white balance, image capturing, USB-slot for image storage (recording)
Video outputs: 2 x DVI 1080p, 2 x HD-SDI 1080
Connectivity: bus interface for direct control of other units like light source, etc.
Dimension/Weight: 295 x 100 x 358 mm (W x H x D) / 4.9 kg
Camera head
Image sensor: 1 x 1/3" CMOS, progressive scan
Image resolution: 1,920 x 1,080 pixels
Endocoupler: for standard eye piece
Function keys: 3 individually programmable and illuminated function keys
Endocoupler: for standard eye piece
Length camera cable: 3.5 m
Dimension/Weight: 173 x 44 (L/Ø) / 180 g (without camera cable)
System
Standard conformity: IEC/DIN EN 60601-1 Classification: Type CF/CE mark
100 – 240 V AC, 50/60 Hz

Camera eVision easy with recording, incl. camera head parfocal zoom, f = 14.25 - 28 mm	95.3721
Camera eVision easy with recording, incl. camera head Pendolino 90°, f = 14.25 mm	95.3723

3CCD HD Camera C3.multi.speed

This camera for all endoscopic application convinces with a state-of-the-art HD picture quality, created by a 3CCD camera head and supports a variety of different video formats: 5:4 SXGA; 16:9 1080p + 1080i and 16:10 WUXGA.

Controller
Video outputs: 1 x HD-DVI, 1 x HDMI*, 2 x BNC (CVBS), 2 x Y/C (S-VHS), 1 x HD-SDI
Connectivity: service interface by RS 232 C
Dimension/Weight: 267 x 69 x 360 mm (W x H x D) / approx. 3.9 kg
Camera head
Image sensor: 3 x 1/3" CCD, progressive and interlace scan
Image resolution: 1,280 x 1,024 pixels (SXGA), 1,920 x 1,200 pixels (WUXGA), 1,920 x 1,080 pixels (1,080p and 1,080i)
Function keys: 2 individually programmable function keys (user defined settings with 10 variable key functions)
Endocoupler: for standard eye piece, Parfocal zoom, f = 16 - 34 mm
Length camera cable: 3 m
Dimension/Weight: 173 x 44 mm (L / Ø) / 170 g
System
Standard conformity: IEC/DIN EN 60601-1, 60601-2.18, 60601-1-2 Classification: BF/CE mark
100 - 240 V AC +/-10 %, 50/60 Hz

*Adapter for DVI available on request.

4 Cables

Description	Length in m	Order number
Cables, for replacement		
HD-SDI video cable, impedance, 75 Ohm, BNC plug	2.0	05.9105k
DVI-Video cable	1.8	05.9104k
S-Video cable	2.0	05.9102k
Video cable, BNC plug	2.0	05.9105k
RGB/Component video cable, 15-pin / 5 x BNC plug	2.0	05.9101k
MIS bus cable		A059584
Remote cable		A056998

Light Sources

The LUT product range eVision offers a high luminance with low temperature development via a new LED light source eVision aura. The light intensity is dimmable from zero to 100 percent and can be controlled via the camera head. No bulb exchange necessary. The light source is durable, energy-efficient and easy in operation.

In addition to these light sources, we also offer different Xenon light options. As these are specially designed and built for endoscopic applications, you get the light exactly where it is needed: Maximum of light efficiency for highest demands.

For suitable power cords, refer to page 145. If no specification is made, we will deliver a Euro power cord.

LED Light Source eVision aura

The LED light source is suitable for all endoscopic applications. Features a multi-light guide adapter and LCD display. Light intensity is dimmable from 5 to 100 %. Due to the long-lasting LED technology of a life time of about 50,000 hours, bulb exchanges are a history of the past.

Lamp
Type: LED
Color temperature: 6500 Kelvin
Average lamp life: approx. 50,000 h
Luminous flux: 1,400 lm
Display; controls
Operation control panel: ON/OFF with LED lamp, UP/DOWN light intensity, button for light intensity
LCD display with current dimming
Light guide socket system Storz, Wolf und ACMI
Connectivity: bus interface
System
Standard conformity: IEC/DIN EN 60601-1 Electromagnetic compatibility: EN 60601-1-2 Classification: CE-mark According to medical directive 93/42 EEC class
100 - 240 V AC, 50/60 Hz, 1.0 - 0.42 A
Dimensions / Weight
Housing (W/H/D): 295 x 130 x 355 mm
Weight: 5.8 kg

Xenon Light Source XL300.xenon

300 Watt Xenon light source, our most powerful light source. With LCD display and microprocessor control to optimize light-intensity performance and lamp life-time.

Lamp
Type: Xenon arc lamp
Power: 300 W
Color temperature: 5600 Kelvin
Average lamp life: 600 h
Easy lamp replacement
Display; controls
Operation control panel: ON/OFF
Lamp-life LCD display
Light guide socket system LUT, Storz
Electronic lamp change indicator
Mechanical adjustment of light intensity
System
Approval acc. EN 60601-1, Class I, CE-mark
90-264 V AC, 50/60 Hz
Dimensions / Weight
Housing (W/H/D): 267 x 138 x 360 mm
Weight: 7.8 kg

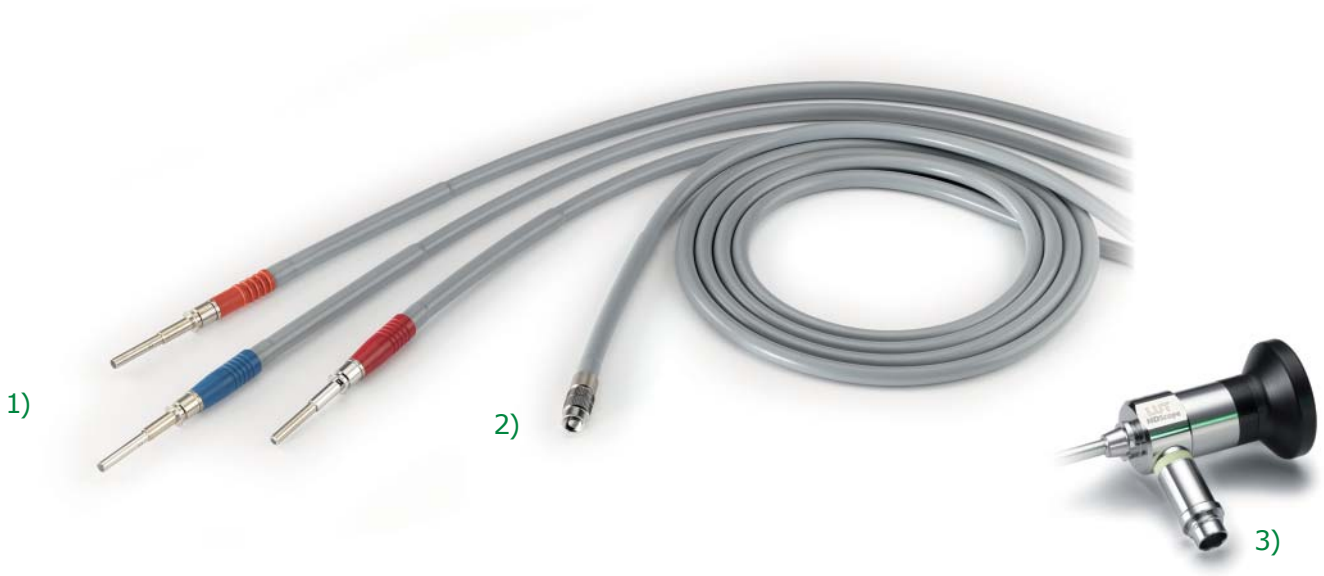
Xenon Light Source XL300.Xenon	05.0625x.1
Spare lamp, Xenon 300 Watt	05.0141x

Xenon Light Source XL180.xenon

180 Watt Xenon light source for all applications and needs. With adjustable mechanical diaphragm for light adjustment.

Lamp
Type: Xenon
Power: 180 W
Color temperature: 6000 Kelvin
Average lamp life: 500 h
Easy lamp replacement
Display; controls
Operation control panel: ON/OFF
Remaining lamp life indicator
Light guide socket system LUT, Storz
Mechanical adjustment of light intensity
System
Medical device directive 93/42/ EEC Class 1, EN 60601-1; BF/CE mark
100-240 V~, 50/60 Hz
Dimensions / Weight
Housing (W/H/D): 360 x 128 x 320 mm
Weight: 7.0 kg

Light Source XL180.xenon	05.0620x.m1
Spare lamp, Xenon 180 Watt	05.0139x.m1



Light Guide Cables

LUT light guide cables are color coded. Thanks to this, the cables can be sorted at a glance.
Autoclavable for 18 minutes at 134 °C / 273 °F.

Fiber Ø mm	Length m	Comment	Order number
Light guide with Storz-Storz adapter. Please specify if other adapters are requested.			
3.5	1.8	Red	05.0084I
3.5	2.3	Red	05.0088I
3.5	3.0	Red	05.0085I
4.8	1.8	Blue	05.0086I
4.8	2.3	Blue	05.0090I
4.8	3.0	Blue	05.0087I
3.5 *	2.3	Orange	05.0088I ht
3.5 *	3.0	Orange	05.0085I ht
4.8 *	2.3	Orange	05.0090I ht

* Recommended for xenon light sources ≥ 180 W

	Suitable to	Order number
1) Light guide to light source 1)		
	Storz light source	05.0100z
	Wolf light source	05.0102b
	LUT light source	05.0104f
	Fujinon light source	05.0107r
	ACMI light source	05.0106c
	Olympus light source	05.0101o
2) Light guide to endoscope		
	Storz endoscope	05.0108z
	Wolf endoscope	05.0110b
	ACMI endoscope	05.0112c
3) Adapter for LUT endoscopes to		
	Storz light guide	05.0114z
	Wolf light guide	05.0116b
	LUT angulated adapter	05.0115z

4 Peripheral Devices for Recording

DVD Recorder

This DVD recorder records your pictures in highest image definition.

Color Video Printer

This color video printer can be handled easily and is the right choice for medical applications.

DVD Recorder	Color Video Printer
Recording format: Video: MPEG-2-comprimising	Print technology: Color thermo-sublimation
Medium: DVD + RW	Resolution: 423 dpi
PAL / NTSC switchable	Paper size: DIN A6

Sony DVO-1000MD	05.9070v
Sony UP25MD Color Video Printer	05.9180p

Image and Video Capture Units

Medical video recorders allow you to easily record video and still images.

MediCap USB 300

High definition video and images	Yes
Video In-/Outputs	DVI, HD SDI, Composite, VGA (via DVI adapter), RGB (via DVI adapter), S-video, BNC
Image formats	JPEG, TIFF, BMP, DICOM
Image Resolution	1920 x 1080 pixels Max recorded resolution depends on max resolution of video input
Video format HD	H.264 / MPEG-4, 1080 p/i, 720 p
Video format standard definition	H.264 / MPEG-4
Records to	Internal hard drive, network drive, USB hard drive & flash drive
Display	Built-in 2.5” monitor
Remote	Connection for optional foot switch or e.g. endoscope trigger
Dimensions (W/H/D) mm	240 x 63 x 211
Certificates	CE 93/42/EEC, UL 60601-1, IEC 60601-1, IEC 60601-1-2, CSA C22.2 No.601.1, E 306417 FCC Part 15, FDA Class 1, RoHS, PSE

MediCap USB 300 with USB stick	05.9196v
Foot switch for MediCap	05.9192v
USB stick 2 GB for MediCap	05.9191v

4 LCD Monitors

Medical Monitors

These HD monitors are characterized by their extremely flat design and ideally suited for the use in the OR, due to their closed metal housing and the anti-reflective coated safety glass pane. A front side backlit keypad with on-off switch, status LED and brightness control allows convenient operation. A passive, maintenance-free zone cooling system allows a completely closed housing and offers therewith an easy way to disinfect all exterior surfaces.

Description	Order number
HD monitor 24'', without holder	05.9023m
HD monitor 26'', without holder	05.9024m
Stand for HD monitor 24''or 26''	05.9082m

	24" HD	26" HD
Resolution	1.920 x 1.200 pixels	1.920 x 1.080 pixels
Ratio	16 : 10	16 : 9
Display	24" (61 cm)	26" (66 cm)
Luminance	300 cd/m²	350 cd/m²
Contrast	1000 : 1	1000 : 1
Viewing angle	178° / 178°	178° / 178°
Housing	completely sealed metallic casing anti-reflective coated safety glass pane	
System	Integrated potential equalization connection Power supply unit 100 - 240 V / 50/60 Hz	
Input	VGA, DVI, S-Video, Composite CVBS, serial application programming interface	
Approvals	DIN EN 60601-1:2007 DIN EN 60601-1-2:2007	
Mounting	100 mm VESA	100 mm VESA
Weight	8.6 kg	12.0 kg
Dimensions (W/H/D) mm	568 x 400 x 60	634 x 410 x 70

4 LCD Monitors

LCD Monitors

In minimal-invasive surgery it is absolutely important to visualize the surgical site clearly and precisely. These imaging systems are optimized for medical applications and offer exceptional image quality, clarity, performance and ergonomically design.

We would be pleased to offer you different medical grade monitors on a daily basis.

Description	Order number
LCD monitor 19''	05.9033m
LCD monitor 24'' HD	05.9042m

	19" HD	24" HD
Visible area mm	518 x 324	518 x 324
Resolution	1.920 x 1.200 WUXGA	1.920 x 1.200 WUXGA
Video through	Yes	Yes
Display of two sources simultaneously	Yes	Yes
Input	- Video, CVBS, Composite (BNC) - S-Video, Y/C (Mini DIN or 2 x BNC) - Component Video, RGB (5 x BNC or HD 15) - VGA (HD 15)	- Video, CVBS, Composite (BNC) - S-Video, Y/C (Mini DIN or 2 x BNC) - Component Video, YP_BP_r (5 x BNC or DVI-I) - VGA (HD 15) - DVI (DVI-D) - HD-SDI (BNC)
Output	- Video, CVBS, Composite (BNC) - S-Video, Y/C (Mini DIN) - Component Video, RGB (5 x BNC or HD 15)	- S-Video, Y/C (Mini DIN) - Component Video, YP_BP_r (5 x BNC or DVI-I) - DVI (DVI-D) - HD-SDI (BNC)
Mounting	100 mm VESA	100 mm VESA
Weight	6.8 kg	7.3 kg
Approvals	UL60601.1; EN 60601; MDD 93/42/EEC, ISO 9001:2000 and ISO 13485:2003 CAN/CSA C22.2 Nr. 601.1 & CCC; Class I Medical Unit; FDA registered, RoMS	
Dimensions (W/H/D) mm	465 x 400 x 98	597 x 401 x 100

The LUT video cart for minimal-invasive surgery

Cutting-edge units, made in Germany

Safe and reliable, tested according to medical standards

5

Units / Accessories / Sterilization / Spare Parts

Urology Pump

Option of automatic instrument recognition and calibration. Precise control and regulation of pressure.

Easy and user-friendly operation.

Pressure
Pressure range: 15 - 150 mm Hg
Flow range: 30 - 500 ml/min
System
Tested acc. EN 60601-1 / IEC 60601-1, EMC: EN 60601-1-2 / IEC 60601-1-2
100 - 240 V~, 50/60 Hz
Dimensions / Weight
Dimensions (W/H/D): 360 x 130 x 305 mm
Weight: approx. 6.3 kg

Urology pump (without accessories)	56.0070r

Accessories

Silicone tubing set, reusable, for 20 procedures	Z0454-01
Inflow tubing set, disposable, sterile, 1 pack = 10 pieces	Z0449-01
Outflow tubing set, disposable, PVC, 1 pack = 10 pcs.	Z1406-01

Further accessories available on request.

Hysteroscopy Pump

Automatic pressure and flow control for optimal view and fluid balance; permanent patient monitoring. Advanced safety for pressure and flow meeting highest international standards.

Pressure
Pressure range: 15 - 150 mm Hg
Flow range: 30 - 500 ml/min
System
Protection class I, Type BF, IP 41
100 - 250 V~, 50/60 Hz
Dimensions / Weight
Dimensions (W/H/D): 268 x 137 x 390 mm
Weight: approx. 4 kg

Hysteroscopy pump (without accessories)	56.0090r

Accessories

Silicone tubing set, reusable, for 20 procedures	Z0454-01
Inflow tubing set, disposable, sterile, 1 pack = 10 pieces	Z0449-01
Outflow tubing set, disposable, PVC, 1 pack = 10 pcs.	Z1406-01
Container, 2 pcs.	Z0554-01
Bottle scale	Z0123-01

5 Pump for Suction-Irrigation

Laparoscopy Pump for Suction and Irrigation

Simple and noiseless operation.

Pressure
Pump capacity max: 400 mm Hg
Suction
Irrigation rate max: 1.8 l/min (+/- 10%)
Suction rate max: 1.8 l/min (+0.4/-0.1 l/min)
System
Tested acc. EN 60601-1/IEC 60601-1, EMC: EN 60601-1-2/IEC 60601-1-2
100 V~ / 110-150 V~ / 220-240 V~, 50/60 Hz
Dimensions / Weight
Dimensions (W/H/D): 280 x 137 x 408 mm
Weight: approx. 5.9 kg

Accessories to Laparoscopy Pump

Inflow tubing set, reusable, silicone	z0454-01
Inflow tubing set, disposable, sterile, 1 pack = 10 pieces	z0449-01
Inflow tubing set, disposable, sterile, with safe lock, 1 pack = 10 pieces	z1424-01
Tubing set, suction, reusable	z1425-01
Tubing set, vacuum suction, reusable	z1426-01
Membran for inflow tubing set, reusable	z0521-01
Cannula for fluid bag, reusable	z0155-01
Tube connection luer lock, male, 8 mm	z0708-01
Filter, hydrophobic	z0556-01
Bemis container, 2 pieces, 3 l	z0554-01
Bemis container, 36 pieces, 3 l	z0555-01
Cannister ring	z0553-01

5 Insufflation Pumps

Surgiflator - 20

User programmable, easy to operate.

Pressure
Pressure range: 1 - 30 mm Hg
Gas flow max: 20 l/min
System
Tested acc. EN 60601-1 / IEC 60601-1, EMC: EN 60601-1-2 / IEC 60601-1-2
100 - 240 V~, 50/60 Hz
Dimensions / Weight
Dimensions (W/H/D): 267 x 138 x 410 mm
Weight: approx. 7.0 kg

Delivery with DIN connection is standard. Other (PIN/US) available on request.

Surgiflator - 20 (without accessories)	16.0040r.m1
Accessories	
High pressure tube CO_2, DIN/DIN connection, 1.5 m length	z0480-01
High pressure tube for central gas supply, NIST/DIN, 3.0 m length	z5030-01
Cylinder, CO_2, 0.75 kg, DIN, empty	z0501-01
Cylinder, CO_2, 0.75 kg, PIN Index, empty	z0502-01
Tubing set for insufflation, with filter, disposable, sterile, 1 pack = 10 pieces	z1422-01
Tubing set for insufflation, reusable, 3.0 m length	z0452-01
Filter ISO, hydrophobic, disposable, sterile	z0536-01
Wrench DIN	z0601-01

Further accessories available on request.

Surgiflator - 40

With integrated gas heating, large text display, user-programmable, pressure relief system and integrated fluid sensor.

Pressure
Pressure range: 1 - 30 mm Hg
Gas flow max: 40 l/min
System
Tested acc. EN 60601-1 / IEC 60601-1, EMC: EN 60601-1-2 / IEC 60601-1-2
100 - 240 V~, 50/60 Hz
Dimensions / Weight
Dimensions (W/H/D): 267 x 138 x 410 mm
Weight: approx. 7.5 kg

Delivery with US connection is standard. Other (PIN/DIN) available on request.

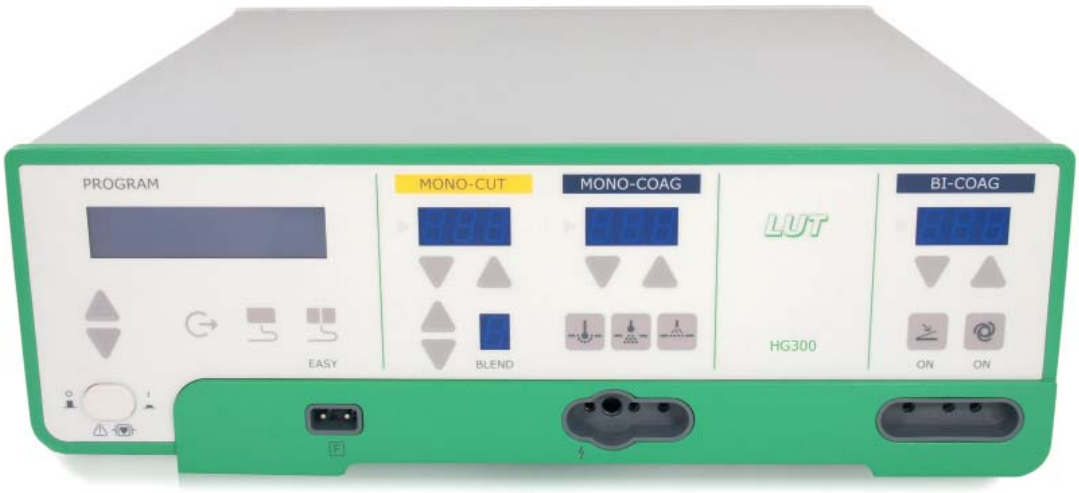
Surgiflator - 40 (without accessories)	16.0070r.m1

Accessories

High pressure tube CO_2, US/DIN connection, 1.5 m length	z5044-01
High pressure tube for central gas supply, NIST/UNI (Italy), 3.0 m length	z5038-01
High pressure tube CO_2, US/PIN connection, 1.5 m length	z0499-01
Tubing set for insufflation, reusable, 3.0 m length	z0452-01
Tubing set for gas heating, reusable, 3.0 m length	z1415-01
Tubing set for insufflation, with filter, disposable, sterile, 1 pack = 10 pieces	z1422-01
Filter ISO, hydrophobic, disposable, sterile	z0536-01
Wrench DIN	z0601-01
Wrench US	z0600-01

Further accessories available on request.

5 HF-Generator

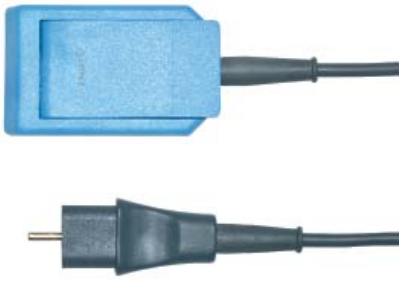


HF-Generator HG300

This generator provides the most up-to-date technology and clever innovations. It has pre-programmed settings for more than 20 standard operations. Extremely fast processors ensure that the arc control is optimally integrated at all times, while self-check programs continu-ously guarantee maximum safety.

Technical information
50 types of cutting current 8 types of coagulation current (2 bipolar)
300 watts max. output power for monopolar Cut 120 watts max. output power for monopolar Coag 200 watts max. output power for bipolar Coag
System
Medical device directive 93/42/EEC Class IIb; EN 60601-1, Type CF
90 - 260 V AC, 50/60 Hz
Dimensions / Weight
Housing (W/H/D): 430 x 180 x 400 mm
Weight: approx. 14 kg

HF-Generator HG300	05.0680r
Two-pedal footswitch (without push-button)	05.0695r

Accessories	Description	Order number
	Two-pedal footswitch with push-button	05.0682r
	Single-use return plate, divided (1 Box = 50 pcs.)	05.0688r
	Connecting cable to single use return plate	05.0687r

5 Accessories

OR-video cart, available in different designs

Installation Width	600 mm	500 mm	450 mm
Configuration	1 monitor shelf	1 monitor shelf	1 monitor adaption
	4 trays	4 trays	3 trays
	1 drawer	1 drawer	1 tray with handle
	1 drawer for keyboard with mousepad	1 drawer for keyboard with mousepad	1 drawer for keyboard with mousepad
	1 gas bottle holder		1 drip bowl
	1 Camera holder		1 endoscope holder
	1 Infusion stand		
	1 connector holder		
	1 power column with ON/OFF switch	1 power column with ON/OFF switch	1 cover cap with ON/OFF switch
Electrification	2 x 8 EURO	1 x 8 EURO	1 x 6 EURO
1600 VA isolating transformer	1 transformer	optional	optional
Order number	FCW.MED40.5	FCW.Med40.1	FCW.Med20.1

Accessories for OR-Video Cart

Here a collection of possible accessories. The modularity of this cart offers a lot more. Please ask for additional possibilities.

Camera holder

For up to three camera heads

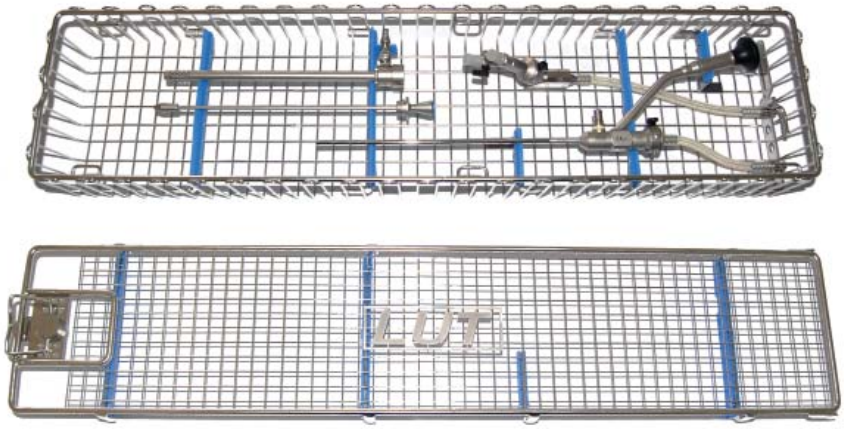
Gas bottle holder

Can be mounted at any level of the cart

Articulated arm

Vertically adjustable for flat screens with VESA standard

Camera holder	zv.9833.999
Gas bottle holder	fcw.gh.3
Articulated arm	fcw.mta.1



Similar to illustration

Endoscope Basket with Cover

Offers secure protection for the sensitive endoscopes against damage during cleaning, sterilization, storage or transport.

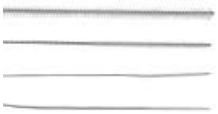
Dimensions in mm	For	Order number
460 x 80 x 52	Laparoscopes, Cystoscopes, Hysteroscopes etc. (without content)	02.0020a
670 x 80 x 52	Uretero-Renoscopes, Nephroscopes (without content)	41.0629a

Protection tube for endoscopes up to Ø 4.0 mm, autoclavable

ye.0021a

Protectiontube for electrodes and cold knives

51.0335a

Accessories	Description	Suitable to	Order number
	Stop cock plugs, single use, 1 box = 10 pieces	all URS instrument bridges all nephroscope instrument bridges	41.0599a
	Duck bill valves, single use, 1 box = 10 pieces	all URS instrument bridges all nephroscope instrument bridges	41.0601d
	Sealing caps, single use, 1 box = 10 pieces	all URS instrument bridges all nephroscope instrument bridges	41.0600d
	UMP - Sealing for laser channel, single use, 1 box = 10 pieces	UMP-Set	41.0678a
	Cleaning brush, working channel 6 Fr.	all URS with working channel 6 Fr.	41.0627a
	Cleaning brush, working channel 7.5 Fr.	all URS with working channel 7.5 Fr.	41.0628a
	Cleaning brush, working channel 6 Fr.	all nephroscopes with working channel 6 Fr.	41.0695a
	Cleaning brush, working channel 10 Fr.	all nephroscopes with working channel 10 Fr.	41.0694a
	Cleaning brush, flexible instrument bridge	all nephroscope instrument bridges	41.0696a
	Cleaning brush, working channel instrument bridge	all nephroscope instrument bridges	41.0697a
	Cleaning brush, for inner, outer and water jet channel, package of four	UMP Set	41.0677a

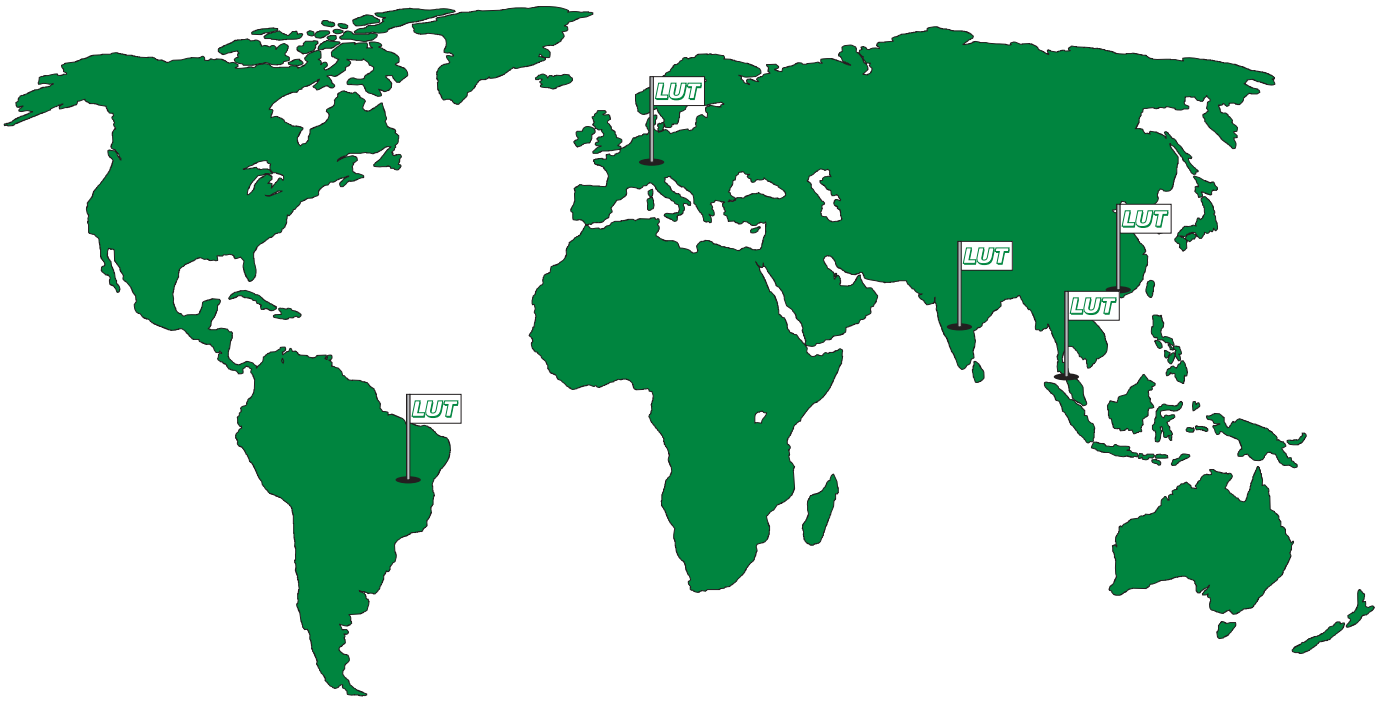
5 Spare Parts Sets

Accessories	Description	Suitable to	Order number
	Tuohy-Borst adapter for insertion of laser probe	UMP Set	41.0474a

Ø mm	Working length mm	Length mm	Length brush mm	Order number
Cleaning brush				
3.0		330	15.0	11.0107a
5.0		330	15.0	11.0108a
10.0		330	14.0	11.0109a

Sets	Suitable to	Order number
Spare parts sets		
Consists of silicone valves 3.5 - 8.0 mm and sealing caps 3.5 mm; 10 of each	11.0544a.m2	11.0282a
Consists of silicone valves 3.5 - 8.0 mm and sealing caps 5.5 mm; 10 of each	11.0299a.m2	11.0283a
Consists of silicone valves 10.0 - 12.5 mm and sealing caps 11.0 mm; 10 of each	11.0312a.m2	11.0284a
Consists of o-rings, silicone valves and sealing caps; 10 of each	11.0503a	11.0285a
Consists of o-rings, silicone valves and sealing caps; 10 of each	11.0504a	11.0286a
Consists of o-rings, silicone valves and sealing caps; 10 of each	11.0506a	11.0287a

Description		Order number
Power cord, if no specification is made, we deliver an Euro power cord.		
	Power Cord Euro CEE 7/7	05.0700r.cord.eu
	Power Cord UK BS 1363	05.0700r.cord.uk
	Power Cord Japan JIS 8303	05.0700r.cord.jap
	Power Cord India/Africa BS 546	05.0700r.cord.indaf
	Power Cord USA Medical grade	05.0700r.cord.na
	Power Cord China GB 2099.1	05.0700r.cord.chi



Our Service Commitment

Being you a reliable partner, our service technicians in the service centers will examine all damages and faults very carefully and will act according to the same quality standards we have established worldwide.

The service centers in Brazil, China, Germany, India and the region Asia-Pacific will carefully check each endoscope, camera or light source and send you a cost estimate accordingly.
In case a repair is not recommendable, either the costs are to high or the security can not be guaranteed, exchanges will be offered.

“Repair if economically feasible, replace if necessary” stands for our reliability and responsibility.

6
Global Service


DEM DEUTS

LUT Germany

As a manufacturer of innovative and highly sophisticated medical devices we act fast on the needs of our customers and partners. The secret of the customer satisfaction is based on a mixture of superb quality, reliability and great team members. That's what we are proud of.

20 years of success enables us to create genuine added value for our customers and to further invest in our industrial location in Germany.

LUT Germany Sales Team

LUT Brazil

The commitment, flexibility and transparency of the LUT Global Service are not only a guarantee for continued and cost-effective performance for our products, but also for other brands.

For many of our clients, this represents a revolution as we are taking charge of unattended demands in the minimal-invasive surgery market.

LUT Brazil Sales Team

LUT China

Outstanding service quality is the basis for a safe and economic management of operations and strengthens our reputation as a reliable partner for our customers. This unique guarantee establishes trust in our service capabilities and ensures high customer satisfaction.

Quick turnaround time at our Service Center in Guangzhou creates new cost-efficient service solutions for minor damages where a repair is cheaper than a complete replacement. Why should you be satisfied with less, when you can get a superior service solution with a 12 month guarantee and even save money? Convince yourself.

LUT China Sales Team

LUT Asia Pacific

We are technology driven and striving towards the leader of minimal-invasive surgery without compromising our quality on sales and service. Our 12 months warranty proves that we are confident on the quality of our repairs which sets us apart.

If you are looking for a long-term partnership, feel free to choose LUT.

LUT Asia Pacific Sales Team

LUT India

Our two premium distribution partners in Mumbai and Kolkata manage a seamless service of our products and offer new cost effective service solutions for minor / medium damages where a repair is more economic than a complete replacement with inferior quality products. LUT Global Service guarantees continued and cost effective performance not only for our own products but also for other brands.

LUT India Sales Team

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