



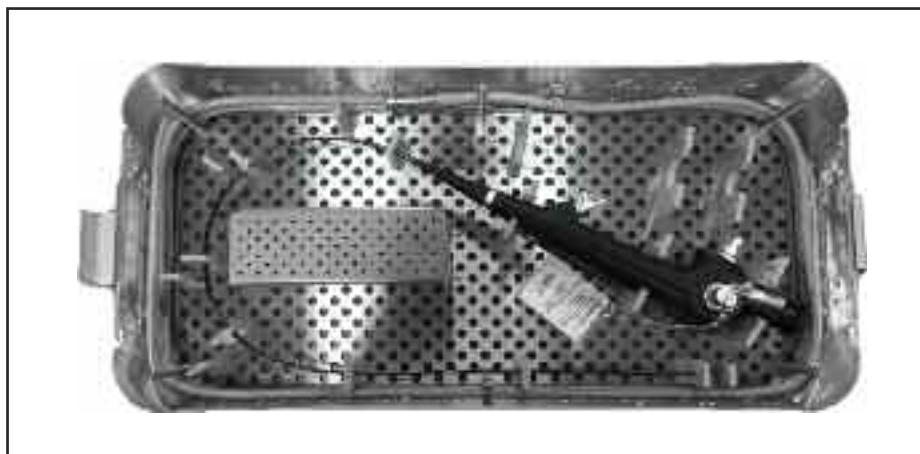
Ureteroscopy

The COBRA

Flexible 2-Channel Continuous-Irrigation Laser-Uretero-Renoscope

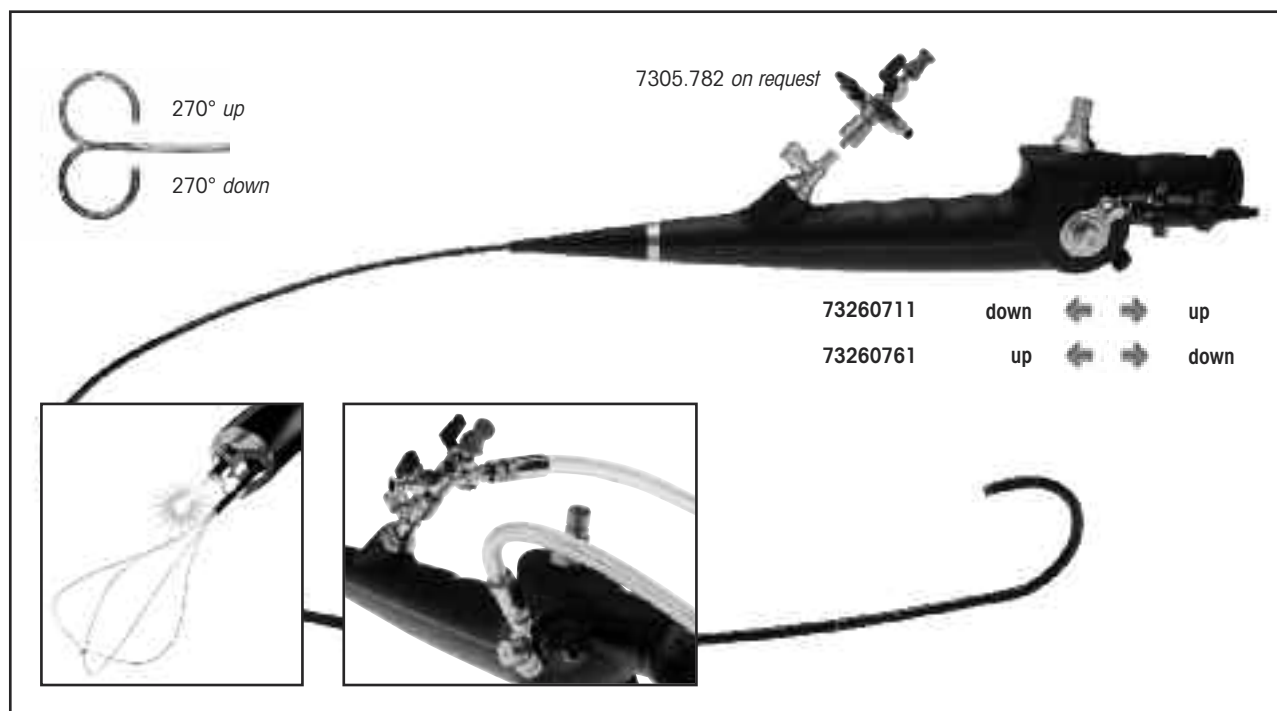


- ❑ Separate working channel for laser fibers
- ❑ Simple control of the laser fiber with special laser shifter
- ❑ Best picture quality due to option of irrigation through 2 channels at the same time or continuous irrigation
- ❑ Less damage to the working channel caused by laser fibers
- ❑ Faster working without constantly changing between laser fiber and stone basket
- ❑ Less repairs due to fixed laser fiber
- ❑ Extremely straightforward handling of the laser shifter
- ❑ 270° deflection
- ❑ Brake mechanism / fixation



The COBRA

Flexible 2-Channel Continuous-Irrigation Laser-Uretero-Renoscope



First flexible dual-channel laser uretero-renaloscope!


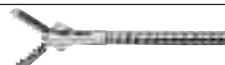







- ☐ Own working channel for 230 µm laser fibers
- ☐ Simple control of the laser fiber with special laser shifter
- ☐ Best picture quality thanks to continuous irrigation
- ☐ Faster working without constantly changing between laser fiber and stone basket, because both can be used at the same time
- ☐ Dual channel to provide option of continuous irrigation
- ☐ Less repair costs due to fixed laser fiber
- ☐ Brake mechanism for locking the instrument tip

| 2-channel laser uretero-renaloscope set | included in set Uretero-renaloscope | Working length | Fr. | working and irrigation channels | viewing direction | angel of view | Set |
|--|--|-----------------------------------|---------|------------------------------------|----------------------|------------------|---|
| consisting of: 2-channel laser URS, spring piece for laser fiber, orange (pack of 20) (15394144), gas steri valve (163.904), leak tester with bayo- net connection (163.903), cleaning adapter (163914), cleaning brush (7326911) | 7326071 | 680 mm | 6 / 9.9 | 2 x 3.3 Charr. / Fr. | 0° | 85° | Forward movement of the control lever provides downward movement of the tip 73260711 |
| | 7326076 | | | | | | Forward movement of the control lever provides up- ward movement of the tip 73260761 |
| also: Spare laser dial | | Laser adjustment dial assembly | | | | | 15369108 |

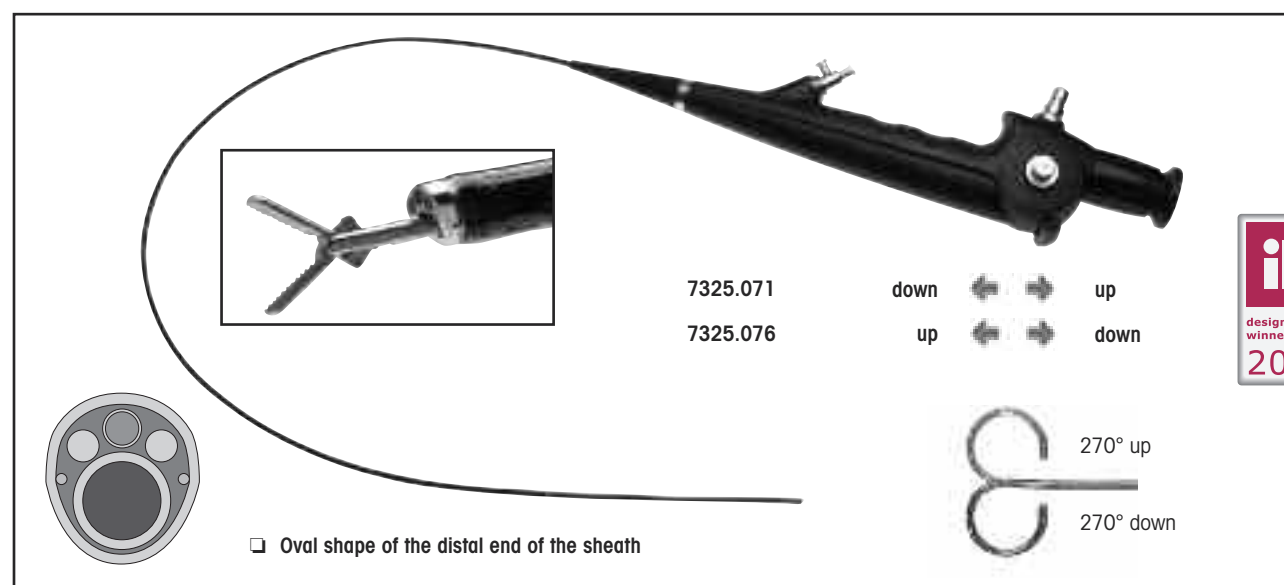
The COBRA

Accessories and Auxiliary Instruments

for flexible 2-channel continuous-irrigation laser URS




| | | Outer - Ø | WL | Types |
|---|--|--------------------------|--------|--------------------|
| Biopsy forceps |  | 1.0 mm 3 Charr. / Fr. | 920 mm | 829.601 |
| Foreign body forceps |  | 1.0 mm 3 Charr. / Fr. | 920 mm | 828.651 |
| Button electrode |  | 1.0 mm 3 Charr. / Fr. | 920 mm | 8741.80 |
| Attachment with instrument insertion tap |  | | — | 7305.782 |
| Biopsy valve set <i>consisting of: Biopsy valve (7265.851), sealing valve, blue (15114.068) (pack of 20) for easy insertion of probes and auxiliary instruments up to 3 Fr.</i> |  | | — | 7265.8512 |
| Laser adjustment unit, complete <i>consisting of: Insert, clamping element (orange, pack of 20) (15394143), Adjustment ring, clamping screw</i> |  | | — | 15369108 |
| Cleaning set V with double luer lock tube connector |  | | — | 163910 (2x) |
| Sealing adapter, sterile (pack of 5) |  | | — | 20.SA65 |
| Adapter for mechanical leak test |  | | — | 163.903 |

The Viper Flexible Uretero-Renoscope



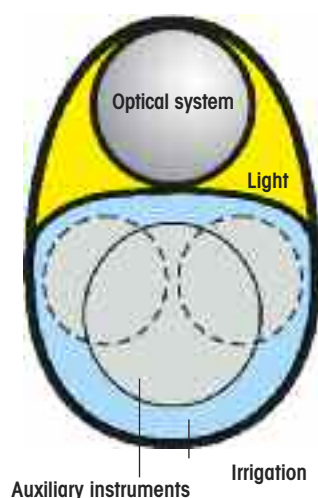
| | Working length | Fr. | Working and irrigation channel | Angel of view | Field of view | Type |
|---|----------------|---------|--------------------------------|---------------|---------------|---|
| Viper Flexible Uretero-Renoscope, 270° Dual Deflection , includes leak tester with bayonet connection (163.903), gas steri valve (163.904), cleaning brush (7321.911) and case | 680 mm | 6 / 8.8 | 3.6 Fr. | 0° | 85° | Forward movement of the control lever provides downward movement of the tip 7325.0711 |
| | | | | | | Ergonomic deflection 7325.0761 |

The Viper Accessory Instruments for Flexible Uretero-Renoscope

| | Working length | Type |
|---|---|-----------------|
| Sealing adapter , 0-6 Fr., sterile, 5 / box |  | 20.SA65 |
| Adapter for mechanical leak test |  | 163.903 |
| Light cable , Fibre bundle Ø 2.5 mm |  3,000 mm | 8061.256 |

E-line Uretero-Renoscopes

Single Channel Ureteroscopes



Large irrigation and instrument channel:

- ☐ Option of inserting up to two auxiliary instruments with adequate irrigation
- ☐ Depending on type up to 6 Fr.

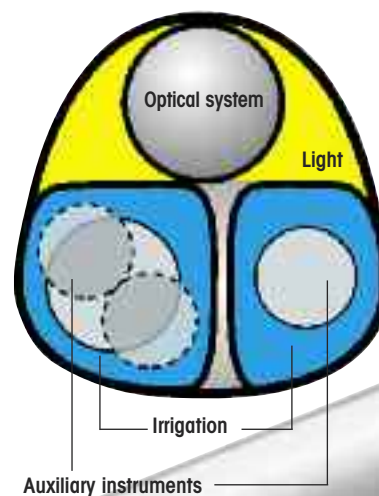
Resulting in:

- ☐ Optimum view even when using two auxiliary instruments at the same time

Improved optical system:

- ☐ High-resolution image guide
- ☐ Up to 67 % more pixels (single images)
- ☐ Absolutely realistic reproduction of the operating site
- ☐ No half-moon effect
- ☐ Higher resolution
- ☐ Larger, brighter image
- ☐ Optimum depth of focus

Dual Operating Channel Ureteroscopes



Even less traumatic due to:

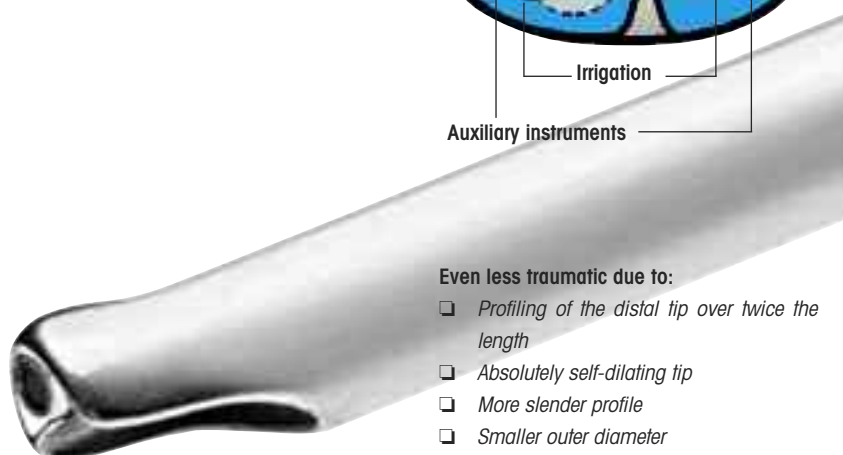
- ☐ Profiling of the distal tip over twice the length
- ☐ Absolutely self-dilating tip
- ☐ More slender profile
- ☐ Smaller outer diameter
- ☐ Stepless sheath

Resulting in:

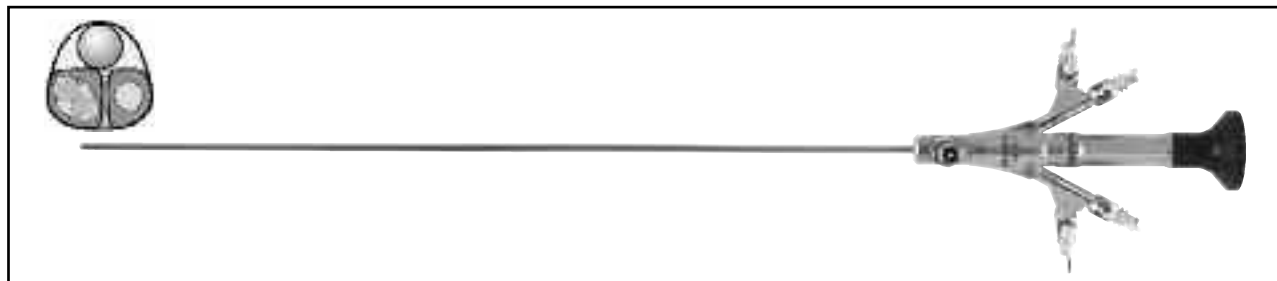
- ☐ Easier introduction into the ureteric orifice
- ☐ Very gentle, safe, stepless dilatation of the ureter

Large selection of auxiliary instruments:

- ☐ Despite the extended working length, all conventional auxiliary instruments from Wolf can be used
- ☐ Instruments with a straight working channel are particularly suitable for the application of ultrasound sonotrodes and Lithoclast probes


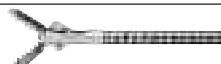




DOC Dual Operating Channel Quartz Fiber Uretero-Renoscopes



- ☐ High density fused quartz optics
- ☐ Large working channels – with small outer dimensions
- ☐ Simultaneous use of two auxiliary flexible instruments
- ☐ 4 Fr. & 2.4 Fr. insert capacities
- ☐ Bilateral side stopcocks for easy irrigation attachment and injection of contrast

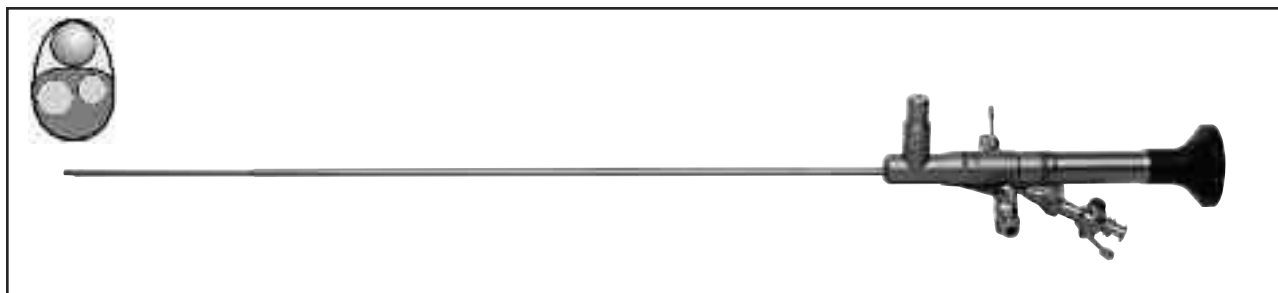
| "DOC" Dual Operating Channel Ureteroscope, fused quartz fiber optics | Working length | Total length | Fr. | Viewing Angle | Irrigation and instrument channel Fr. | For auxiliary instruments Fr. | Type |
|--|----------------|--------------|-----------|---------------|---------------------------------------|-------------------------------|-----------------|
| 6.5 / 8.5 Fr. "DOC" Dual Operating Channel Ureteroscopes straight eyepiece | 430 | 558 mm | 6.5 / 8.5 | 5° | 1 x 4.2 and 1 x 2.55 | 1 x 4 and 1 x 2.4 | 8708.518 |
| | 330 | 458 mm | 6.5 / 8.5 | 5° | 1 x 4.2 and 1 x 2.55 | 1 x 4 and 1 x 2.4 | 8708.517 |

| | | Outer - Ø | WL | Types |
|--|---|------------|--------|-----------------|
| Biopsy forceps |  | 1.0 mm Fr. | 920 mm | 829.601 |
| Foreign body forceps |  | 1.0 mm Fr. | 920 mm | 828.651 |
| Button electrode |  | 1.0 mm Fr. | 920 mm | 8741.80 |
| Attachment with instrument insertion tap |  | | – | 7305.782 |

| "DOC" Dual Operating Channel Quartz Fiber Uretero-Renoscope | Working length | Total length | Fr. | Viewing Angle | Irrigation and instrument channel Fr. | For auxiliary instruments Fr. | Type |
|---|----------------|--------------|-----------|---------------|---------------------------------------|-------------------------------|-----------------|
| 6.5 / 8.5 Fr. "DOC" 45° Offset Uretero-Renoscope | 430 | 563 mm | 6.5 / 8.5 | 5° | 1 x 4.2 and 1 x 2.55 | 1 x 4 and 1 x 2.4 | 8708.534 |
| | 315 | 448 mm | 6.5 / 8.5 | 5° | 1 x 4.2 and 1 x 2.55 | 1 x 4 and 1 x 2.4 | 8708.533 |

4.5 / 6 Fr. Needle Semi-rigid Uretero-Renoscope

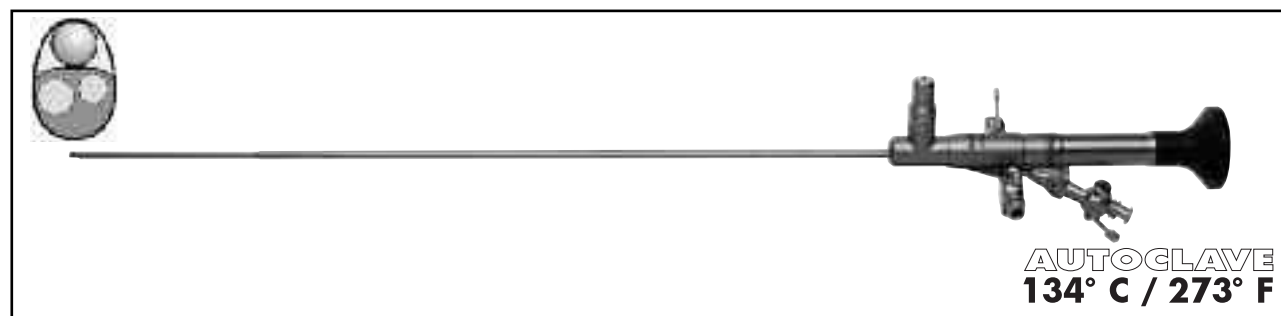
Straight eye piece and offset options available



- ☐ Extremely thin, 4.5 / 6 Fr.
- ☐ Large oval irrigation and probe channel 2.5 x 3 Fr.
- ☐ Excellent view through miniature fiber optic ureteroscope
- ☐ Progressive dilation - even in the narrowest passages
- ☐ Stone therapy with laser or electrohydraulic lithotripsy

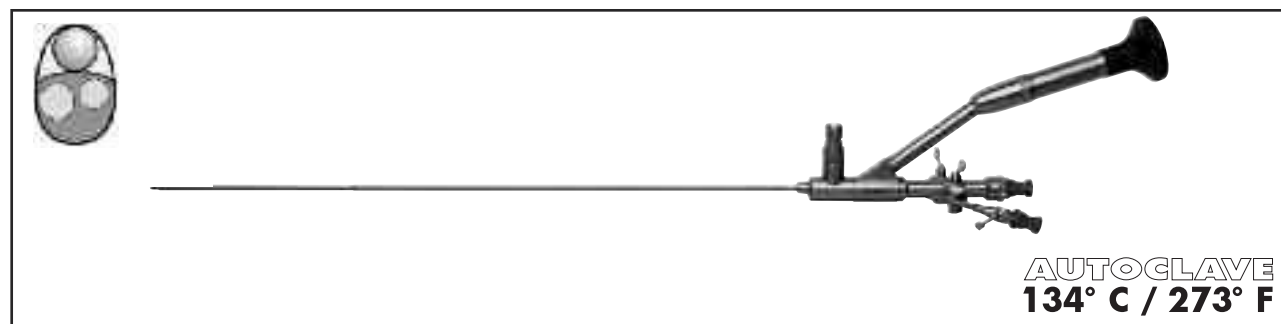
| Instrumentation | Description | Angle of view | WL | Insert capacity (Fr.) |
|-----------------|---------------------------|---------------|--------|-----------------------|
| 8701.533 | 45 Degree offset eyepiece | 5° | 315 mm | 3 |
| 8701.534 | 45 Degree offset eyepiece | 5° | 430 mm | 3 |
| 8701517 | Straight eyepiece | 5° | 330 mm | 3 |
| 8701518 | Straight eyepiece | 5° | 430 mm | 3 |

Ultrathin & Compact Single Channel Quartz Fiber Uretero-Renoscopes



- ☐ Ultrathin's 4 Fr. insert capacity is the largest of any 6-7 Fr. ureteroscope available
- ☐ Ultrathin's 6 Fr. tip allows easy insertion into the ureter
- ☐ Oval operating channels provide superior flow and larger instrumentation
- ☐ High density fused quartz + optics

| E-line quartz fiber URS with oval irrigation and instrument channel | Working length | Total length | Fr. | Viewing angle | Irrigation and instrument channel Fr. | For auxiliary instruments Fr. | Type |
|---|-------------------|-----------------|---------|------------------|--|-------------------------------------|-----------------|
| 6 / 7.5 Fr. Ultrathin Uretero-renaloscopes straight eyepiece | 430 mm | 560 mm | 6 / 7.5 | 5° | 4.2 x 4.6 | 1 x 4 | 8702.518 |
| | 330 mm | 445 mm | 6 / 7.5 | 5° | 4.2 x 4.6 | 1 x 4 | 8702.517 |
| 8 / 9.8 Fr. Compact Uretero-renaloscopes straight eyepiece | 430 mm | 560 mm | 8 / 9.8 | 12° | 5.2 x 6.2 | 1 x 5 | 8703.518 |
| | 330 mm | 445 mm | 8 / 9.8 | 12° | 5.2 x 6.2 | 1 x 5 | 8703.517 |



| | | | | | | | |
|---|--------|--------|---------|----|-----------|---------------------|-----------------|
| 6 / 7.5 Fr. Ultrathin Uretero-Renaloscopes by Marberger 45° Parallel eyepiece | 430 mm | 600 mm | 6 / 7.5 | 5° | 4.2 x 4.6 | 1 x 4 or 2 x 2.4 | 8702.524 |
| | 315 mm | 485 mm | 6 / 7.5 | 5° | 4.2 x 4.6 | 1 x 4 or 2 x 2.4 | 8702.523 |
| 6 / 7.5 Fr. Ultrathin Uretero-Renaloscopes by Bichler 45° Parallel eyepiece | 430 mm | 570 mm | 6 / 7.5 | 5° | 4.2 x 4.6 | 1 x 4 or 2 x 2.4 | 8702.534 |
| | 315 mm | 455 mm | 6 / 7.5 | 5° | 4.2 x 4.6 | 1 x 4 or 2 x 2.4 | 8702.533 |

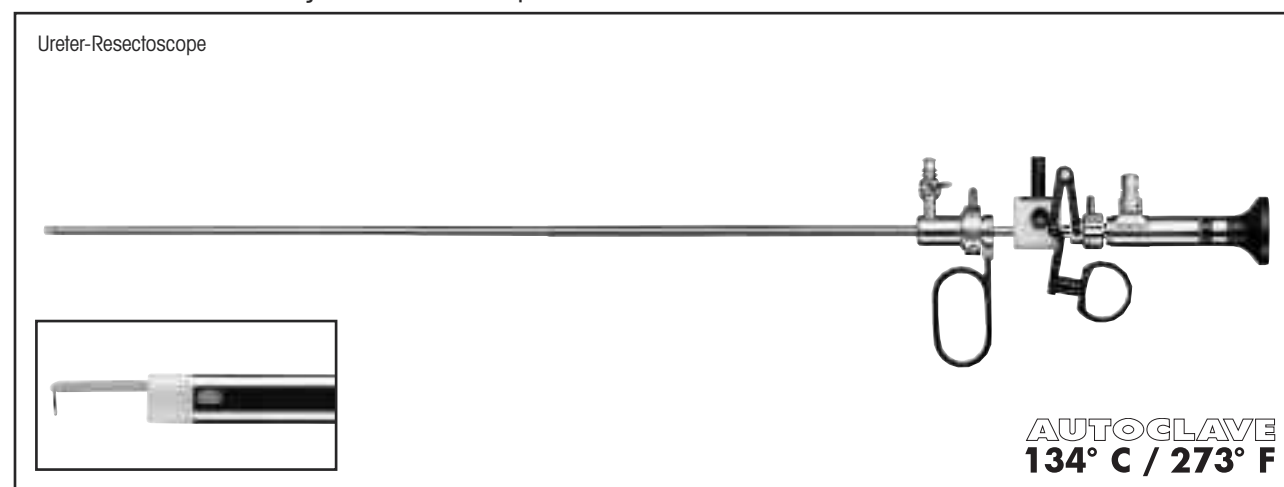
E-line

8.5 / 11.5 Fr. Compact Operating Quartz Fiber Uretero-Renoscopes by Marberger with parallel offset eyepiece

| E-line 8.5 / 11.5 Fr. Compact operating quartz fiber URS with oval irrigation and instrument channel, including automatic valve for inserting instrument | Working length | Total length | Fr. | Viewing angle | Irrigation and instrument channel Fr. | For auxiliary instruments Fr. | Type |
|--|-------------------|-----------------|------------|------------------|--|-------------------------------------|-----------------|
| 8.5 / 11.5 Fr. Uretero-renaloscopes by Marberger | 430 mm | 600 mm | 8.5 / 11.5 | 12° | 6.2 x 8.2 | 1 x 6 or 2 x 4 | 8704.524 |
| | 315 mm | 485 mm | 8.5 / 11.5 | 12° | 6.2 x 8.2 | 1 x 6 or 2 x 4 | 8704.523 |

PAN-endo Uretero-Renoscope, Optical Ureterotome, Ureter-Resectoscope

- all combinations with just one endoscope



Ureter-resectoscope

consisting of:

PANOVIEW PLUS endoscope, Ø 2.2 / 2.7 mm, 0°8720.401

Sheath, 11.5 Fr. distal tip insulated,
with fixed irrigation tap8724.021

Adapter, with guide port8677.26

Working element, passive cutting action, for electrodes8677.224

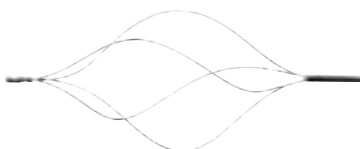
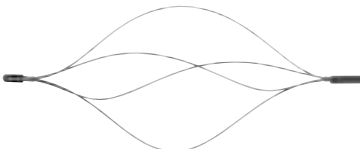




Stricture scalpel, hook shaped8724.981

Cutting electrode8724.931

Coagulating electrode8724.911

Hook electrode8724.921

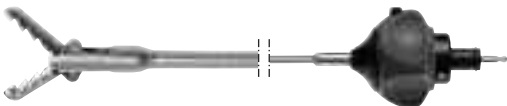






Accessory Instruments for Flexible Fiber Uretero-Renoscope

| | | Outer Ø | Working length | Type |
|---|---------------------------------------|---------|----------------|-----------------|
|  | Stone extractor, four-wire | 2.4 Fr. | 910 mm | 8741.201 |
|  | Stone extractor, four-wire | 3 Fr. | 910 mm | 8741.03 |
|  | Biopsy forceps for biopsy | 3 Fr. | 920 mm | 829.601 |
|  | Grasping forceps | 3 Fr. | 920 mm | 828.651 |
|  | Flexible coagulating button electrode | 3 Fr. | 920 mm | 8741.80 |
|  | Adapter with introduction tap | — | — | 7305.782 |

Forceps and Scissors, rigid







Micro Modular System **HySafe**

360° rotatable, flushable, easy click











| Insert with sheath | |  | | Handle with overload protection  | Complete instrument • Insert with sheath • Handle |
|--|-----------|--|---------|--|--|
| | Types | Fr. | WL (mm) | | Types |
| Biopsy forceps  | 8952.6008 | 5 | 550 | 8083.001 | 8952.6002 |
| Grasping forceps with mouse jaws  | 8959.6118 | 4 | 425 | | 8959.6112 |
| | 8952.6118 | 4 | 550 | | 8952.6112 |
| | 8959.6218 | 5 | 425 | | 8959.6212 |
| | 8952.6218 | 5 | 550 | | 8952.6212 |
| Grasping forceps with alligator jaws  | 8959.6808 | 5 | 425 | | 8959.6802 |
| | 8954.6808 | 5 | 550 | | 8954.6802 |
| Grasping forceps with alligator jaws  | 8952.6508 | 5 | 550 | | 8952.6502 |
| Foreign body grasping forceps  | 8952.6608 | 5 | 550 | | 8952.6602 |

Forceps, rigid




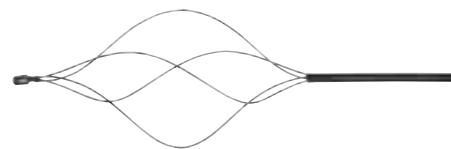

for Uretero-Renoscopes with straight working channel

| | | Working length | Fr. | Type |
|---|--------------------------------------|----------------|-----|-----------------|
|  | Biopsy forceps | 550 mm | 5 | 8952.60 |
|  | Grasping forceps, mouse-tooth | 415 mm | 4 | 8959.611 |
|  | Grasping forceps, mouse-tooth | 550 mm | 4 | 8952.611 |
|  | Grasping forceps, mouse-tooth | 415 mm | 5 | 8959.621 |
|  | Grasping forceps | 550 mm | 5 | 8952.65 |
|  | Alligator forceps | 550 mm | 5 | 8954.68 |
| | short, for ureteroscopes | 430 mm | 5 | 8959.68 |


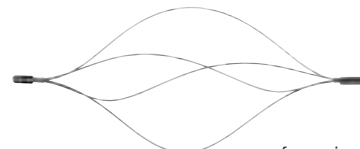
Forceps, Scissors, flexible for Uretero-Renoscopes

| | | Working length | Fr. | Type |
|---|-------------------------------|----------------|-----|-----------------|
|  | Biopsy forceps | 920 mm | 3 | 829.601 |
|  | Biopsy forceps | 550 mm | 3.5 | 8953.60 |
|  | Biopsy forceps | 600 mm | 4/3 | 8734.606 |
|  | Biopsy forceps | 850 mm | 4/3 | 8734.608 |
|  | Biopsy forceps | 550 mm | 5 | 829.051 |
|  | Foreign body forceps | 920 mm | 3 | 828.651 |
|  | Grasping forceps | 600 mm | 4 | 8734.656 |
|  | Grasping forceps | 850 mm | 4 | 8734.658 |
|  | Grasping forceps, mouse-tooth | 600 mm | 4 | 8734.686 |
| | | 550 mm | 5 | 8735.685 |
|  | Grasping forceps, mouse-tooth | 850 mm | 4 | 8734.688 |





Forceps, Scissors, flexible for Uretero-Renoscopes

| | | Working length | Fr. | Type |
|---|---|----------------|-----|-----------------|
|  | Grasping forceps | 545 mm | 5 | 8950.66 |
|  | Grasping forceps | 550 mm | 5 | 828.051 |
|  | Flexible scissors for slitting strictures, retrograde cutting action | 545 mm | 5 | 8950.28 |
|  | four-wire | 660 mm | 4 | 8137.041 |
|  | four-wire | 740 mm | 3.5 | 8137.231 |

Stone Extractors, modular for Uretero-Renoscopes



| | Basket | Outer cover | Handle | Working length | Fr. | Type Complete |
|--|----------|-------------|----------|----------------|-----|-----------------|
|  four-wire | 8137.841 | 8137.94 | 8593.605 | 640 mm | 4 | 8137.241 |
|  four-wire | 8741.031 | 8741.037 | 8593.605 | 910 mm | 3 | 8741.03 |

Electrodes, Balloon Catheter for Uretero-Renoscopes

| | | Working length | Fr. | Type |
|---|---|----------------|-----|----------------|
|  | Flexible coagulating hook electrode (for URS, Ø 0.8 mm) | 600 mm | 2.4 | 823.221 |
|  | Coagulating button electrode | 920 mm | 3 | 8741.80 |
|  | Flexible coagulating button electrode | 600 mm | 5 | 8599.80 |
|  | Flexible hook electrode | 620 mm | 5 | 824.051 |

Bougies

for Uretero-Renoscopes

| Bougies for dilatation of the ureter | Material | Fr. | Type |
|--|--------------|-----|-----------------|
| Flexible, hollow ureter dilators which can be inserted by means of a cysto-urethroscope and / or over a guide wire (8591.993) into the renal pelvis  | Metal | 10 | 8591.90 |
| | | 12 | 8591.92 |
| | | 14 | 8591.94 |
| Flexible, hollow bougies set of 3, in individually packed, sterile  | Polyurethane | 10 | 8593.103 |
| Guide wire set of 3, in individually packed, sterile, 0.038" | — | — | 8591.993 |