Dilators and Fascia Scalpel
for percutaneous low-pressure universal nephroscopes

For dilatation of the nephrostomy tract

Endoscope dilator
for use over a J-guide wire
consisting of:
1 hollow guide rod 6 Fr. (8955.06),
4 telescope dilators 9 - 18 Fr.................................8955.18
7 telescope dilators 9 - 27 Fr.................................8955.27

Optional:
Dilator, 30 Fr.
to fit over 27 Fr. dilator of 8955.27.................................8955.30

Dilatation guide rod, 9 Fr.
with larger internal diameter for introducing
a second guide wire.................................................8962.19

Bougie, 24 Fr.
for introducing a second guide wire,
used over the 15 Fr. dilator........................................8962.24

Percutaneous fascia scalpel (Knife by Kort)
for use over a guide wire ...........................................8962.72

It is often difficult, particularly with patients who have already undergone surgery, to dilate the nephrostomy tract to 24 or 26 Fr., because the scar tissue is usually hard and inelastic. Cold slitting of this tissue makes access much easier.

The subsequent dilatation then only involves the transparenchymatous area of the kidney.
27 Fr. Extra Long
Percutaneous Nephroscope

- 25 cm WL without sheath; 23 cm WL with sheath
- Uses all standard percutaneous forceps and US probes
- 4 mm Ø insert capacity
- 12° Panoview rod lens system provides large pristine images

Operating sheath
with irrigation outlets at the distal tip,
irrigation tap, 27 Fr., WL 23 cm ..................8966.051
Obturator, hollow, 27 Fr.................................8966.151

PANOVIEW Operating Endoscope 12°, extra long
with oval instrument channel for 4 mm auxiliary instruments,
can also be used for irrigation or aspiration,
WL 23 cm or 25 cm without sheath ....................8966.401

Accessory Parts:
Sealing Cap, 2-3 mm, blue, 12/pkg ..................... 89.02BL
Sealing Membrane,10/pkg ........................... 89.103
Black Screw Cap ........................................ 15176.106

Technical Data:
Eyepiece Design .................. 90°
Working Length ................. 25 cm
Sheath Length ................. 23 cm
Angle of View .................. 12°
Insert Capacity ................. 4 mm
Rod Lens System .............. Yes
Operating sheath
with irrigation outlets at the distal tip, including hollow obturator for use over a guide wire, with rotating irrigation tap,
27 Fr., WL 175 mm ..........................................................8962.06

PANOVIEW 90° offset eyepiece, operating telescope
by Marberger, 25°
with oval instrument channel for 4 mm auxiliary instruments, can also be used for irrigation or aspiration,
WL 195 mm ..................................................................8962.433

or

PANOVIEW operating telescope by Wickham, 25°
with oblique eyepiece, oval probe channel for 4 mm auxiliary instruments, can also be used for irrigation or aspiration, WL 195 mm .........................8972.433
24 Fr. Percutaneous Universal Nephroscopes

- Small sheath caliber but robust construction thanks to the use of top-quality materials such as titanium and stainless steel
- Large oval working channel for auxiliary instruments up to 3.5 mm diameter while maintaining efficient irrigation
- New PANOVIEW PLUS rod lens system for optimum image quality
- User-friendly with continuous-irrigation option, rotatable irrigation ring on the sheath and automatic valve
- Extended working length – suitable for obese patients

Sheath, 24 Fr.
round, with rotatable irrigation collar, distal tip straight, automatic locking mechanism, 204 mm WL..............................8965.041
Hollow obturator .................................................................8965.141

PANOVIEW PLUS operating endoscope with 90° offset eyepiece,
20° angle of view, capacity 3.5 mm,
224 mm WL, oval instrument channel, automatic valve (8964.711)
with sealing membrane (5 pieces / 89.102) and sealing cap,
blue (89.02) .........................................................................8965.401

PANOVIEW PLUS operating endoscope with 45° offset eyepiece, 20° angle of view, capacity 3.5 mm,
WL 224 mm, oval instrument channel, automatic valve (8964.711)
with sealing membrane (5 pieces / 89.102) and sealing cap,
blue (89.02) .........................................................................8965.411

Amplatz sheath, 24.3 Fr.,
for application of nephroscopes with sheaths up to
24 Fr., working length 150 mm .......................................................8964.041

Accessory Parts:
Sealing Cap, 1-2 mm, red, 12/pkg .................... 89.01RE
Sealing Membrane, 5/pkg ............................... 89.102
Sealing Cover ................................................................. 15176.100
Instrument / Irrigation Adapter ......................... 8964.711
20.8 Fr. Percutaneous Universal Nephroscope

- Extremely small sheath circumference - but the same sturdy construction
- Large oval working channel, 14 Fr., for auxiliary instruments up to 3.5 mm diameter such as the standard ultrasound sonotrodes - with effective irrigation
- New PANOVIE PLUS rod lens system - for optimum image quality
- Ergonomic design and user-friendly automatic valve - for fatigue-free operation and optimum handling

20.8 Fr. Percutaneous Universal Nephroscope
comprising:

Sheath, 20.8 Fr.
round, with rotatable irrigation collar, distal tip straight, automatic locking mechanism, 204 mm WL ..........8964.021
also:
Obturator, hollow .......................................................8964.121

PANOVIEW PLUS Operating Nephroscope
with 90° offset eyepiece, 12°, capacity 3.5 mm, 224 mm WL, oval instrument channel, automatic valve (8964.711) with sealing membrane (pack of 5 / 89.102) and sealing cap, blue (89.02) ..............................................................8964.401

Amplatz sheath, 24.3 Fr.,
for application of nephroscopes with sheaths up to 24 Fr.,
working length 150 mm .............................................8964.041

Sealing membrane retainer ...........................................15176.100

Accessory Parts:
Sealing Cap, 1-2 mm, red, 12/pkg. ......................... 89.01RE
Sealing Membrane, 5/pkg. ................................. 89.102
Sealing Cover ......................................................... 15176.100
Instrument / Irrigation Adapter ............................... 8964.711
15 / 18 Fr. Miniature Nephroscope

- For large lower pole caliceal stones as an alternative to ESWL
- A useful addition to the instrument set for percutaneous stone therapy
- A very practical instrument for therapy of large renal pelvis and caliceal stones
- Highest possible resolution and largest possible image due to use of 50,000 pixel image guide
- Automatic seal between sheath and endoscope
- Fast and safe introduction of auxiliary instruments thanks to automatic seal on working channel
- Smallest possible sheath size but nevertheless robust due to use of titanium and stainless steel
- Can be used with Amplatz sheaths as of 13 Fr.
- Stainless steel special bougies for time-saving "one-step" dilatation

**PANOVIE Operating Nephroscope** with parallel offset eyepiece, 12º viewing angle, 6 Fr. working channel, automatic valve with sealing membrane, 225 mm WL ......................................8968.421

**Sheath,**
Sheath, 15 Fr., round, with rotatable irrigation collar, distal tip straight, automatic connector, 205 mm WL .....................8968.001
also:
**Obturator,**
hollow .................................................................8968.101

**Sheath,**
18 Fr., round, with rotatable irrigation collar, distal tip straight, automatic connector, 205 mm WL .....................8968.011
also:
**Obturator,**
hollow .................................................................8968.111

**Amplatz sheath,**
18 Fr., 134 mm WL ......................................................8968.041

**Accessory Parts:**
- Sealing Cap, 3-6 Fr., white, 12/pkg. .........................84.012
- Sealing Membrane, yellow 5/pkg. .........................89.101
- Sealing Cover, ball fitting .........................15256.393
- Sealing Cover, ball fitting .........................15256.456
Auxiliary Instruments
for 15 / 18 Fr. Miniature Nephroscope

Dilator,
12 Fr. for "one-step" dilatation, length 320 mm ..................8968.012
Dilator,
15 Fr. for "one-step" dilatation, length 320 mm ..............8968.015

| Stone grasping forceps with overload protection and mouse tooth geometry | Working length | Ø | Type |
| killers | 366 mm | 2 mm | 8968.601 |
| Three-pronged stone grasper | 365 mm | 2 mm | 8968.671 |
| Spare stone grasper insert for 8968.671 | – | – | 8968.675 |

Ultrasound sonotrodes,
1.9 mm Ø, length 340 mm ..................................8962.519

Membrane retainer, standard ......................................15256.393
Membrane retainer with Luer connector ..................15256.456
Membrane seal (pack of 10) ..................................89.101
## Auxiliary Instruments

for 27 Fr. percutaneous nephroscopes

<table>
<thead>
<tr>
<th>For use in the instrument channel of operating telescopes 8962.433 and 8972.433</th>
<th>W.L. mm</th>
<th>Ø mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stone forceps, rigid</td>
<td>340</td>
<td>4.0</td>
<td>8962.604</td>
</tr>
<tr>
<td>Stone forceps, rigid</td>
<td>340</td>
<td>4.0</td>
<td>8962.607</td>
</tr>
<tr>
<td>Stone forceps, rigid</td>
<td>340</td>
<td>4.0</td>
<td>8962.605</td>
</tr>
<tr>
<td>Stone forceps, rigid</td>
<td>355</td>
<td>3.0</td>
<td>8962.602</td>
</tr>
<tr>
<td>Stone grasping forceps, rigid</td>
<td>352</td>
<td>3.5</td>
<td>8962.60</td>
</tr>
<tr>
<td>Stone grasping forceps, rigid</td>
<td>352</td>
<td>3.5</td>
<td>8962.61</td>
</tr>
<tr>
<td>Stone grasping forceps, rigid</td>
<td>350</td>
<td>3.5</td>
<td>8964.601</td>
</tr>
<tr>
<td>Three-pronged stone grasping, rigid</td>
<td>350</td>
<td>3.5</td>
<td>8964.671</td>
</tr>
<tr>
<td>Spare grasper</td>
<td>350</td>
<td>3.5</td>
<td>8964.675</td>
</tr>
</tbody>
</table>

*TypeWL*  
*TypeØ*  
*TypeType*
### Auxiliary Instruments
for 20.8 Fr. and 24 Fr. percutaneous nephroscopes

<table>
<thead>
<tr>
<th>Stone Grasping Forceps</th>
<th>Working length (mm)</th>
<th>Ø (mm)</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stone grasping forceps</td>
<td>350</td>
<td>8964.601</td>
<td></td>
</tr>
<tr>
<td>Spare stone grasper, 3-pronged</td>
<td>350</td>
<td>8964.671</td>
<td></td>
</tr>
<tr>
<td>Spare stone grasper, 3-pronged</td>
<td>3.5</td>
<td>8964.675</td>
<td></td>
</tr>
<tr>
<td>Stone Forceps, angled distal tip, by Wickham-Miller</td>
<td>340</td>
<td>8962.602</td>
<td></td>
</tr>
<tr>
<td>Stone grasping forceps, finely serrated, for soft stones</td>
<td>340</td>
<td>8962.61</td>
<td></td>
</tr>
</tbody>
</table>

Naturally, all other standard instruments belonging to the »Percutaneous Nephroscope« up to 3.5 mm diameter can be used, for example, ultrasound sonotrodes, lithoclast, electrohydraulic lithotripsy and mechanical instruments.
Accessory Instruments
For percutaneous low-pressure universal nephrosopes by Marberger

**Scalpel for slitting UPJ strictures**
For use in the operating channel of nephrosopes, 8962.433 and 8972.433

<table>
<thead>
<tr>
<th>Instrumentation</th>
<th>Description</th>
<th>Blade Design</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stricture scalpel</td>
<td>Half-moon shaped</td>
<td></td>
<td>8962.951</td>
</tr>
</tbody>
</table>
15 Fr. Flexible Nephroscope
7.5 Fr. Channel

- Stone extraction from inaccessible regions
- Tumor diagnosis in the entire renal pelvis
- Reduced weight and ergonomic design for optimum handling and less strain on the operator
- 0° angle of view, 120° field of view
- Immerisible and gas sterilizable

<table>
<thead>
<tr>
<th>Outer diameter</th>
<th>Instrument channel</th>
<th>Working length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 mm</td>
<td>2.5 mm</td>
<td>400 mm</td>
<td>15 Fr. Flexible Nephroscope</td>
</tr>
<tr>
<td>15 Fr.</td>
<td>7.5 Fr.</td>
<td></td>
<td>7305.0011 Forward movement of the control lever produces downward movement of the tip</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>7305.0061 Forward movement of the control lever produces upward movement of the tip</td>
</tr>
</tbody>
</table>

Optional:
- **Light cable 2.5 mm Ø**
  - 3000 mm
  - 8061.256
# Auxiliary Instruments for flexible nephroscope

<table>
<thead>
<tr>
<th>Description</th>
<th>Outer - Ø</th>
<th>WL</th>
<th>Types</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flexible foreign body forceps</strong></td>
<td>1.6 mm</td>
<td>550 mm</td>
<td>828.051</td>
</tr>
<tr>
<td><strong>Mouse-tooth grasping forceps,</strong> Safe and effective grasping with mouse-tooth geometry</td>
<td>1.6 mm</td>
<td>550 mm</td>
<td>8735.685</td>
</tr>
<tr>
<td></td>
<td>2.0 mm</td>
<td>550 mm</td>
<td>8736.685</td>
</tr>
<tr>
<td><strong>RIWOLITH probe,</strong> for electrohydraulic lithotripsy (5 / box)</td>
<td>1.1 mm</td>
<td>770 mm</td>
<td>2280.335</td>
</tr>
<tr>
<td><strong>Attachment with 2 Luer connectors, quick-lock mechanism</strong></td>
<td>3.3 Fr.</td>
<td>770 mm</td>
<td>7305.781</td>
</tr>
<tr>
<td><strong>Sealing adapter, sterile,</strong> 5 / box</td>
<td>0-6 Fr.</td>
<td>770 mm</td>
<td>20.SA65</td>
</tr>
</tbody>
</table>
Instruments for Resection of Tumors in the Renal Pelvis
for universal nephroscope by Marberger

For use in the operating sheath 8962.06

<table>
<thead>
<tr>
<th>Ø</th>
<th>Angle of view</th>
<th>With enlarged image and objective field</th>
<th>Endoscope</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 mm</td>
<td>30°</td>
<td>8654.422</td>
<td></td>
</tr>
</tbody>
</table>
Optical Percutaneous Ureterotome
for universal nephroscope 24 Fr. and 27 Fr.

Outer sheath, 24 Fr. ....................................................... 8965.041
Working element for stricture scalpel ................................8667.911
or
Outer sheath, 27 Fr. ..........................................................8962.06
Inner sheath, distal tip insulated ......................................8962.122
Working element for stricture scalpel ................................8667.911

<table>
<thead>
<tr>
<th>Ø</th>
<th>Angle of view</th>
<th>with enlarged image and objective field</th>
<th>Endoscope</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 mm</td>
<td>0°</td>
<td>8650.414</td>
<td>8655.431</td>
</tr>
<tr>
<td></td>
<td>12°</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Instruments for Percutaneous Slitting of Strictures

for universal nephroscope

<table>
<thead>
<tr>
<th>Stricture scalpel with ceramic blade</th>
<th>Blade</th>
<th>rigid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Half-moon, solid</td>
<td><strong>8667.961</strong></td>
</tr>
<tr>
<td></td>
<td>Half-moon, hollow (for 4 Fr. ureteric catheters)</td>
<td><strong>8667.966</strong></td>
</tr>
<tr>
<td></td>
<td>Shark-fin for narrow stenoses, hollow (for 4 Fr. ureteric catheters)</td>
<td><strong>8667.971</strong></td>
</tr>
<tr>
<td></td>
<td>Lancet</td>
<td><strong>8667.981</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Steel stricture scalpel</th>
<th>Blade</th>
<th>rigid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>half-moon</td>
<td><strong>8667.965</strong></td>
</tr>
<tr>
<td></td>
<td>wave edge</td>
<td><strong>8667.955</strong></td>
</tr>
<tr>
<td></td>
<td>half-moon</td>
<td><strong>8667.96</strong></td>
</tr>
<tr>
<td></td>
<td>wave edge</td>
<td><strong>8667.95</strong></td>
</tr>
<tr>
<td></td>
<td>lancet</td>
<td><strong>8667.98</strong></td>
</tr>
<tr>
<td></td>
<td>hook shaped</td>
<td><strong>8667.94</strong></td>
</tr>
<tr>
<td></td>
<td>sickle shaped</td>
<td><strong>8667.93</strong></td>
</tr>
</tbody>
</table>