

# **Precision with Bite**





The Resectoscopes from Richard Wolf





# Progress at every level.

Richard Wolf resectoscopes for urology have formed a platform for the therapeutic and diagnostic interventions at the highest level for many decades.

The **SHARK Resectoscope Line**, now takes quality, control and safety to a new dimension. **SHARK** combines years of global experience and user feedback with innovative technology. The result is a high-quality system with absolutely no compromises that makes your work more efficient. You are able to connect and disconnect the system elements with one simple action. Quick connection is combined with high stability. See for yourself!







# Precision at the cutting edge: Newly designed sheath system



#### "SHARK-tip"

The oblique sheath tip at the distal end made of black ceramic permits focused irrigation and prevents reflection of light

# Freedom of choice Continuous irrigation sheaths and variety of intermittent sheaths

- Freedom of movement Double sheath system with 360° rotatable inner sheath
- Freedom of connection Inner and outer sheaths connectable in any position

Sheath

with central stopcock

Continuous irrigation sheath

Intermittent sheath

# Optimalum flow Optimized irrigation stopcock with large cross-section and "SHARK-tip" geometry for ideal flow characteristics



All applications under control: Monopolar and bipolar working elements











#### Maximum diversity

active and passive working elements with open or closed handle design, for left-handed and right-handed users

#### Ergonomic design

with special "SHARK-fin" finger supports and enlarged thumb rings for comfort

- Soft stop for fatigue-free working
- Torsion-resistant connector for all system components
- Twist-lock
  for accura compaction

for secure connection of telescope and working element.

 Automatic snap-on electrode locking for intuitive fixation of the electrode













- Monopolar and bipolar versions
- Enhanced stability on the basis of the newly designed structure for the electrode fork
- Precise electrode guidance through working element and telescope
- Maximum diversity for every application
- Automatic snap-on electrode locking at the working element
- Color coding for simplified assignment of system components



Perspectives in a changing world – innovative PENDUAL camera head

Profile URO/GYN RESECTION Brightness 50 WB WB Menu ENDOCAM ENDOCAM

reddot design award winner 2012

#### ENDOCAM Logic HD:

The controller features an easy to operate touch display and an on-screen display with intuitive and intelligent menu navigation.

Innovative PENDUAL
 Pendulum camera head for the
 ENDOCAM Logic HD
 Can also be aligned axially,
 e.g. for rigid URS, PCNL, etc.

Snap-on connector for a fast connection with the telescope



| Ds | Double s     | heath system |
|----|--------------|--------------|
| -  |              |              |
|    | Outer sheath | Inner sheath |
|    |              |              |
|    | 8675424      | 8675322      |
|    | -            |              |
|    | 8675426      | 8675324      |
|    | _            | _            |

# Sheaths for continuous irrigation

### Sheaths for intermittent irrigation

| iS Shec                           | ath with rotatable irrigation              | adapter |
|-----------------------------------|--|---------|
|                                   |  |         |
| Rotatable irrig                   | gation adapter                             |         |
| with 4 mm luer connector          | with 3 mm luer connector,<br>with stopcock | Sheath  |
|                                   |  |         |
| _                                 | _  | _       |
| 8676354                           | 8676361                                    | 8676324 |
| -                                 | -  | -       |
| 8676354                           | 8676361                                    | 8676326 |
| <b>Two-way stopcock</b><br>883.12 |  |         |

#### passive active Closed handle with Closed handle Open handle Closed handle comfort thumb rest Direction of view 0° 8681224\* 8681205\* \_ \_ 12° 8674205 8674234 8674224 8674225 30°

# Monopolar working elements

Ds = Continuous irrigation

Sheath size

22/24 Fr.

24 Fr. 24/26 Fr.

26 Fr.

Ds

IS

iS

\*not suitable for 22/24 Fr. double sheath system





#### Obturators



### Telescopes, Ø 4 mm





# 12°/30°, for multiple use, monopolar

|    |                                 |                       |          | for sheath | sizes [in Fr.] |              | Colo   | r code    | Tura      |          |
|----|---------------------------------|-----------------------|----------|------------|----------------|--------------|--------|-----------|-----------|----------|
|    | Designation                     | Loop                  | Ds 22/24 | 18 24      | Ds 24/26       | <b>iS</b> 26 | Fork   | Stem      | Туре      |          |
|    |                                 |                       | ~        | -          | _              | _            | green  | Dark gray | 86782235  |          |
|    |                                 | Loop<br>ø 0.35 mm     | _        | ~          | ~              | _            | yəllow | Dark gray | 86782435  |          |
|    | Cutting                         | <i>"</i>              | -        | -          | -              | ~            | black  | Dark gray | 86782635  |          |
|    | electrode                       | Loop<br>ø 0.8 mm      | _        | v          | r              | _            | yellow | Dark gray | 86782480  |          |
|    | Coagulation                     | Dallar                | ~        | ~          | ~              | _            | green  | Dark gray | 86782201  |          |
|    | electrode                       |                       | Roller   | _          | _              | -            | ~      | black     | Dark gray | 86782601 |
| 6  | Coagulation<br>electrode        | Sphere                | ~        | v          | v              | _            | green  | Dark gray | 86782202  |          |
|    | Coagulation<br>electrode Button | Dutton                | ~        | ~          | ~              | -            | green  | Dark gray | 86782203  |          |
|    |                                 | BUIIOII               | -        | _          | -              | ~            | black  | Dark gray | 86782603  |          |
|    | Knife                           | Knife                 | ~        | ~          | ~              | -            | green  | Dark gray | 86782204  |          |
|    | electrode                       | KIIIIe                | -        | _          | -              | ~            | black  | Dark gray | 86782604  |          |
|    | Hook                            | Hook                  | ~        | ~          | ~              | -            | green  | Dark gray | 86782205  |          |
| 9  | electrode                       | TIOOK                 | -        | -          | -              | ~            | black  | Dark gray | 86782605  |          |
|    | EVAP<br>electrode               | barrel-shaped         | -        | ۷          | r              | r            | yəllow | Dark gray | 86782407  |          |
| Ş. | EVAP<br>electrode               | Pyramid               | -        | v          | ~              | v            | yəllow | Dark gray | 86782408  |          |
|    |                                 | \A/:                  | ~        | _          | _              |              | green  | Dark gray | 86782206  |          |
| 5  | EVAP<br>electrode               | Wing<br>(loop profile | _        | ~          | ~              | _            | yəllow | Dark gray | 86782406  |          |
| 0  |                                 | flat)                 | -        | -          | -              | ~            | black  | Dark gray | 86782606  |          |

✓ suitable for the relevant sheath size – not suitable

Ds = Continuous irrigation



# 0°, for multiple use, monopolar

|  | Desimution               | 1             |          | for sheath s | sizes [in Fr.] |              | Color       | code      | Tura     |
|--|--------------------------|---------------|----------|--------------|----------------|--------------|-------------|-----------|----------|
|  | Designation              | Loop          | Ds 22/24 | 18 24        | Ds 24/26       | <b>iS</b> 26 | Fork        | Stem      | Туре     |
|  | Cutting                  | Loop          | _        | ~            | ~              | _            | yellow      | Dark gray | 86792435 |
| 0  | electrode                | ø 0.35 mm     | -        | _            | _              | v            | black       | Dark gray | 86792635 |
| 6  | Coagulation<br>electrode | Roller        | _        | ۷            | ~              | _            | green       | Dark gray | 86792201 |
| and the second s | Coagulation<br>electrode | Sphere        | _        | v            | r              | V            | iransparent | Dark gray | 86792202 |
| 5  | EVAP<br>electrode        | barrel-shaped | _        | v            | r              | V            | yellow      | Dark gray | 86792407 |
| e de la compañía de la   | Knife<br>electrode       | Knife         | _        | v            | ~              | V            | transparent | Dark gray | 86792204 |
|  | Hook<br>electrode        | Hook          | _        | v            | v              | V            | iransparent | Dark gray | 86792205 |



# 12°/30°, for single use, sterile\*, monopolar

|      | Baatan attan                            |                   |          | for sheath          | sizes [in Fr.] |              | Colo   | or code     | <b>.</b> |
|------|---|-------------------|----------|---------------------|----------------|--------------|--------|-------------|----------|
|      | Designation                             | Loop              | Ds 22/24 | <mark>1</mark> 8 24 | DS 24/26       | <b>iS</b> 26 | Fork   | Stem        | Туре     |
|      |   |                   | ~        | _                   | _              | _            | green  | transparent | 46782235 |
|      | Cutting                                 | Loop<br>ø 0.35 mm | -        | ~                   | ~              | -            | yellow | transparent | 46782435 |
|      | electrode                               | <i>p</i>          | -        | _                   | -              | ~            | black  | transparent | 46782635 |
|      | (pack of 10)                            | Loop              | ~        | _                   | -              | -            | green  | transparent | 46782225 |
| 6    |   | ø 0.25 mm         | -        | ~                   | ~              | -            | yellow | transparent | 46782425 |
|      | Cutting<br>electrode<br>(pack of 5)     | Loop<br>ø 0.8 mm  | _        | ۷                   | r              | _            | yellow | transparent | 46782480 |
|      | Hook                                    | rode Hook         | ~        | ~                   | ~              | _            | green  | transparent | 46782205 |
| G    | electrode<br>(pack of 5)                |                   | _        | _                   | _              | v            | black  | transparent | 46782605 |
|      | Coagulation<br>electrode<br>(pack of 5) | Roller            | v        | v                   | r              | _            | green  | transparent | 46782201 |
| (and | Coagulation<br>electrode<br>(pack of 5) | Sphere            | v        | ۷                   | r              | _            | green  | transparent | 46782202 |
|      | Coagulation                             | Button            | ~        | ~                   | ~              | -            | green  | transparent | 46782203 |
|      | electrode<br>(pack of 5)                | Button            | -        | -                   | -              | v            | black  | transparent | 46782603 |
| R    | Knife<br>electrode                      | Knife             | ~        | •                   | V              | _            | green  | transparent | 46782204 |
|      | (pack of 5)                             | KIIIIe            | _        | _                   | _              | ~            | black  | transparent | 46782604 |

✓ suitable for the relevant sheath size - not suitable \* packed single, sterile

Ds = Continuous irrigation



# $0^\circ\text{, for single use, sterile*, monopolar}$

|  | Designation                             | Leen      | for sheath sizes [in Fr.] |       |          |              | Color code  |             | Ture     |
|--|---|-----------|---------------------------|-------|----------|--------------|-------------|-------------|----------|
|  | Designation                             | Loop      | Ds 22/24                  | 18 24 | Ds 24/26 | <b>iS</b> 26 | Fork        | Stem        | Туре     |
|  | Cutting electrode                       | Loop      | _                         | ~     | ~        | _            | yəllow      | transparent | 46792435 |
| 0  | (pack of 5)                             | ø 0.35 mm | _                         | _     | _        | v            | black       | transparent | 46792635 |
|  | Hook<br>electrode<br>(pack of 5)        | Hook      | _                         | V     | r        | _            | transparent | transparent | 46792205 |
| 5  | Coagulation<br>electrode<br>(pack of 5) | Roller    | _                         | V     | r        | _            | green       | transparent | 46792201 |
| e la | Knife<br>electrode<br>(pack of 5)       | Knife     | _                         | ~     | v        | _            | transparent | transparent | 46792204 |

✓ suitable for the relevant sheath size - not suitable \* packed single, sterile

Ds = Continuous irrigation is = intermittent irrigation

.

# HF connection cable, monopolar

| Connection<br>of HF device | Manufacturer<br>of HF device       | Length | Туре    |
|----------------------------|------------------------------------|--------|---------|
|                            |                                    | 3 m    | 815.032 |
|                            | ERBE, ACC, ICC                     | 5 m    | 815.052 |
|                            | EDDE T Carias                      | 3 m    | 815.132 |
|                            | ERBE T Series                      | 5 m    | 815.152 |
|                            | Martin Developed According         | 3 m    | 815.031 |
|                            | Martin, Berchtold, Aesculap        | 5 m    | 815.051 |
|                            | Douio Vallaulah Esta Int           | 3 m    | 815.033 |
|                            | Bovie, Valleylab, Erbe Int.        | 5 m    | 815.053 |
|                            | Eschmann                           | 3 m    | 815.034 |
|                            | and other devices with a 4 mm plug | 5 m    | 815.054 |



| Ds | Double s     | heath system |
|----|--------------|--------------|
| -  |              | -            |
|    | Outer sheath | Inner sheath |
|    |              |              |
|    | 8675424      | 8675322      |
|    | -            | -            |
|    | 8675426      | 8675324      |
|    | _            | -            |

# Sheaths for continuous irrigation

# Sheaths for intermittent irrigation

| iS Shee                  | ath with rotatable irrigation             | adapter |
|--------------------------|---|---------|
|                          |   |         |
| Rotatable irrig          | ation adapter                             |         |
| with 4 mm luer connector | with 3 mm luer connector<br>with stopcock | Sheath  |
|                          |   |         |
| _                        | _   | _       |
| 8676354                  | 8676361                                   | 8676324 |
| -                        | -   | -       |
| 8676354                  | 8676361                                   | 8676326 |
| Two-way stopcock         |   |         |
| 883.12                   |   |         |

# **Bipolar working elements**

|                | ac                       | tive                        |  | pas         | assive        |  |
|----------------|--------------------------|-----------------------------|--|-------------|---------------|--|
|                | Closed handle            | Open handle                 |  | Open handle | Closed handle |  |
| ection of view |                          |                             |  |             |               |  |
| 0°<br>12°      | 8680.205                 | 8680.204                    |  | 8680.224    | 8680.225      |  |
| 30°            | Replacement rubber cap   | <b>),</b> black (pack of 5) |  |             |               |  |
|                | Thumb ring with large in | ner diameter                |  |             |               |  |

Ds = Continuous irrigation

Dire

Sheath size

22/24 Fr.

24 Fr.

24/26 Fr.

26 Fr.

Ds

18

Ds

iS





### Obturators



### Telescopes, Ø 4 mm





# 12°/30°, for multiple use, bipolar

|                      | Designation              | Loop                 | for sheath sizes [in Fr.] |       |          |              | Color  | Type    |         |
|----------------------|--------------------------|----------------------|---------------------------|-------|----------|--------------|--------|---------|---------|
|                      | Designation              | Loop                 | Ds 22/24                  | 18 24 | Ds 24/26 | <b>iS</b> 26 | Fork   | Stem    | Туре    |
| Cutting<br>electrode | Cutting                  | Loop                 | ~                         | -     | -        | -            | blue   | yellow  | 8622133 |
|                      | ø 0.3 mm                 | _                    | ~                         | ~     | ~        | blue         | yellow | 8622131 |         |
|                      | Coagulation<br>electrode | Cylinder<br>ø 1.2 mm | ~                         | V     | v        | v            | blue   | yellow  | 8623022 |
|                      | Hook<br>electrode        | Hook                 | v                         | V     | v        | v            | blue   | yəllow  | 862309  |

✓ suitable for the relevant sheath size – not suitable

Ds = Continuous irrigation



# $0^\circ\!,$ for multiple use, bipolar

|   | Designation          | Loop             | for sheath sizes [in Fr.] |          |              |      | Color | Turne  |         |
|---|----------------------|------------------|---------------------------|----------|--------------|------|-------|--------|---------|
|   | Designation Loop     | Ds 22/24         | 1 24                      | Ds 24/26 | <b>is</b> 26 | Fork | Stem  | Туре   |         |
| 5 | Cutting<br>electrode | Loop<br>ø 0.3 mm | _                         | v        | v            | _    | blue  | yellow | 8609031 |

Ds = Continuous irrigation



### 12°/30°, for single use, sterile\*, bipolar

|   | Designation                               | Loop                 | for sheath sizes [in Fr.] |       |          |              | Color code |      | -         |
|---|---|----------------------|---------------------------|-------|----------|--------------|------------|------|-----------|
|   |   |                      | Ds 22/24                  | 18 24 | Ds 24/26 | <b>iS</b> 26 | Fork       | Stem | Туре      |
|   | Cutting<br>electrode<br>(pack of 3)       | Loop<br>ø 0.3 mm     | ~                         | -     | -        | _            | blue       | blue | 4622.1333 |
|   |   |                      | _                         | ~     | ~        | _            | blue       | blue | 4622.1313 |
|   |   |                      | _                         | _     | -        | ~            | green      | blue | 4624.1313 |
| 5 |   | Loop<br>ø 0.25 mm    | ~                         | _     | -        | -            | blue       | blue | 4622.2533 |
|   |   |                      | -                         | ~     | ~        | ~            | blue       | blue | 4622.2513 |
| ( | Cutting<br>electrode, oval<br>(pack of 3) | Loop<br>ø 0.3 mm     | _                         | •     | ~        | r            | blue       | blue | 4622.1323 |
|   | Coagulation<br>electrode<br>(pack of 3)   | Cylinder<br>ø 1.2 mm | ~                         | _     | -        | _            | blue       | blue | 4623.0243 |
|   |   |                      | _                         | ~     | ~        | v            | blue       | blue | 4623.0223 |
|   | BiVAP<br>electrode<br>(pack of 3)         | Donut                | ~                         | _     | _        | _            | blue       | blue | 46300223  |
|   |   |                      | -                         | V     | ~        | ~            | blue       | blue | 46300243  |

✓ suitable for the relevant sheath size - not suitable \* packed single, sterile

Ds = Continuous irrigation



# $0^\circ,$ for single use, sterile\*, bipolar

|   | Designation                               | Loop                 | for sheath sizes [in Fr.] |       |          | Color code   |       | -    |           |
|---|---|----------------------|---------------------------|-------|----------|--------------|-------|------|-----------|
|   |   |                      | Ds 22/24                  | 18 24 | Ds 24/26 | <b>iS</b> 26 | Fork  | Stem | Туре      |
| 5 | Cutting<br>electrode<br>(pack of 3)       | Loop<br>ø 0.3 mm     | -                         | ~     | ~        | -            | blue  | blue | 4609.0313 |
|   |   |                      | _                         | _     | -        | ~            | green | blue | 4611.0313 |
|   |   | Loop<br>ø 0.25 mm    | -                         | v     | v        | _            | blue  | blue | 4609.2513 |
|   | Cutting<br>electrode, oval<br>(pack of 3) | Loop<br>ø 0.3 mm     | _                         | v     | v        | r            | blue  | blue | 4609.0323 |
|   | Coagulation<br>electrode<br>(pack of 3)   | Cylinder<br>ø 1.2 mm | _                         | v     | v        | v            | blue  | blue | 4610.0223 |
|   | BiVAP<br>electrode<br>(pack of 3)         | Donut                | _                         | v     | v        | v            | blue  | blue | 46310243  |

✓ suitable for the relevant sheath size - not suitable \* packed single, sterile

Ds = Continuous irrigation

is = intermittent irrigation

## HF connection cable, bipolar

| Connection<br>of HF device | Manufacturer<br>of HF device | Length | Туре     |
|----------------------------|------------------------------|--------|----------|
|                            | FDDF                         | 3 m    | 8108.232 |
|                            | ERBE                         | 5 m    | 8108.252 |
|                            | Martin                       | 3 m    | 8108.231 |
|                            | Martin                       | 5 m    | 8108.251 |



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