

# High Speed Dating

 **Shark** meets  **Piranha**

Solutions for  
enucleation and morcellation

Solutions for enucleation and morcellation

## Endoscopic enucleation of the prostate (EEP)

In addition to established surgical techniques for the treatment of benign prostatic hyperplasia (BPH), new methods are becoming increasingly important in urology and a trend towards endoscopic enucleation of the prostate (EEP) can be observed in recent years. This is reflected in the EAU guidelines: EEP is cited here as the first choice for treatment of BPH for prostate glands > 80 ml.

Richard Wolf offers users a wide range of products for both laser and bipolar enucleation. The portfolio is completed by a highly efficient tissue morcellation system.

## Laser enucleation

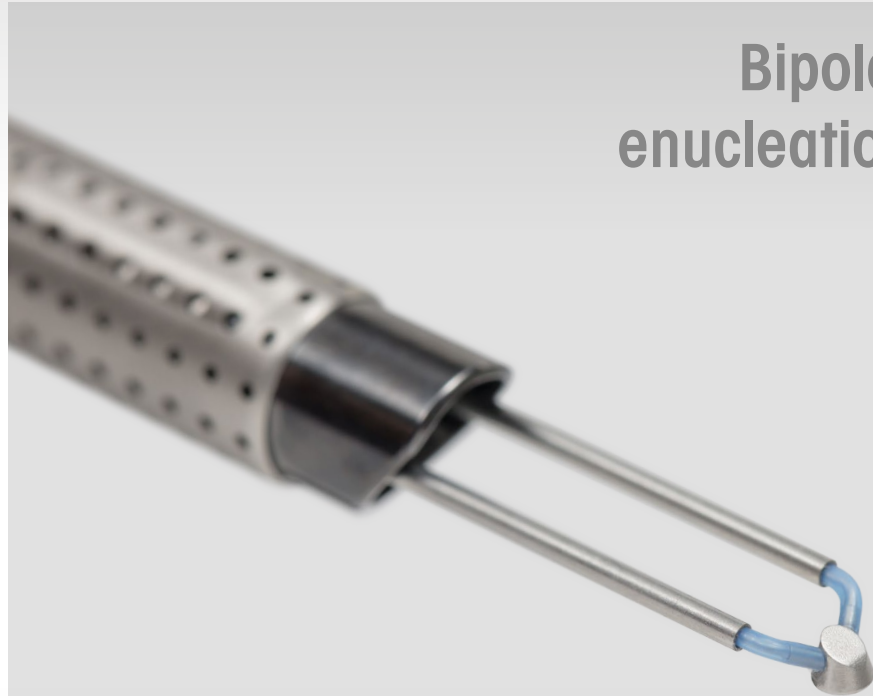


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## Tissue morcellation

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## Bipolar enucleation

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Impressive variety

## Laser enucleation

### Everything under control

- With an ergonomic **working element** based on "classic" resection
- Or a **working insert** that enables comfortable handling, particularly when carrying out lever movements during blunt enucleation of the prostate gland
- **Snap-on mechanism** for simple locking and release of the laser fiber guide tubes
- **Gentle clamping mechanism** for smooth insertion and fixation of laser fibers

### Large selection

Richard Wolf offers different laser fiber guide tubes and a curette for the 24 and 26 Fr. **SHARK** continuous irrigation sheaths.

- A special stabilizer ("wing") in the distal area enables precise work
- The laser fiber guide tubes are suitable for bare fire laser fibers for HoLEP and ThuLEP from 550 to 1000  $\mu\text{m}$

### Always the perfect tool

- 24 Fr. or 26 Fr. continuous irrigation laser resectoscope sheaths with ceramic tip
- 26 Fr. continuous irrigation laser enucleation sheath with atraumatic, thickened **stainless steel tip** for blunt enucleation of the prostate – ideal for laser applications



Large selection of laser guide tubes



Top: Continuous irrigation laser resectoscope sheath with ceramic tip  
Bottom: Continuous irrigation enucleation sheath with stainless steel tip



**Power. Flexibility. Usability.**

Carefully engineered to the smallest detail – the Holmium:YAG Laser **MegaPulse 70+** sets new standards in precision and speed compared to conventional methods. In SOFT TISSUE mode, for example, through optimal adjustment of frequency and energy, holmium laser enucleation of the prostate (HoLEP), can be performed with "only" 70 watts, achieving outstanding results.

The **MegaPulse 70+** is also suitable for ablation or resection of bladder, urethral and ureteral tumors, transurethral incision of the prostate (TUIP), slitting of urethral strictures, removal of condylomas or incision of the bladder neck.



Impressive variety

## Bipolar enucleation

### Enucleation – simply different

The **bipolar enucleation electrode** from Richard Wolf is the cost-efficient alternative to laser enucleation.

**1 Distal wedge-shaped surface**  
allows blunt, purely mechanical enucleation, as well as effective vaporization and incision with HF current.

**2 Small electrode head**  
for significantly more precise and finer work with simultaneously high mechanical stability – particularly in apical dissection.

**3 Unique design for a multitude of applications**  
enables enucleation, coagulation and vaporization.

**4 Large "donut"-shaped surface**  
The special shape enables effective vaporization and coagulation with little loss of blood and minimized penetration of thermal energy into the surrounding tissue.

**5 SHARK tip**  
The atraumatic ceramic tip of the SHARK inner sheath is used to tension the tissue before enucleation.



Ideal for  
blunt enucleation

Bipolar enucleation of the prostate significantly improves symptoms and the quality of life in patients suffering from benign prostatic hypertrophy and is comparable to the results of TUR-P.

Today, most urological departments are equipped with a bipolar HF generator. Richard Wolf introduces the possibility to perform the enucleation of the prostate using the bipolar enucleation electrode and the instruments already available for resection.

In combination with our SHARK resectoscopes and the PIRANHA Morcellator, the bipolar enucleation electrode offers an interesting alternative to laser enucleation and an economical solution for EPP using HF surgery.



Consistent efficiency

## Tissue morcellation

### Performance. Comfort. Safety.

The **PIRANHA** tissue Morcellator combines maximum performance and comfort with optimal safety.

- High-speed rotary Morcellator with special blade geometry
- Optimized cutting geometry for larger, enucleated prostate tissue chips for pathological examination
- Larger suction window – eliminates the "ping-pong effect"
- Disposable product for maximum sharpness
- High torque for maximum cutting performance
- High-performance, lightweight handle
- Footswitch for easy changeover between the different operating modes
- **"PIRANHA Mode"** for suction and morcellation
- **"Suction Mode"** for suctioning and fixation of adenoma fragments as well as suctioning of blood clots
- Special collecting container to filter out tissue chips
- Single-use tube sets to facilitate work

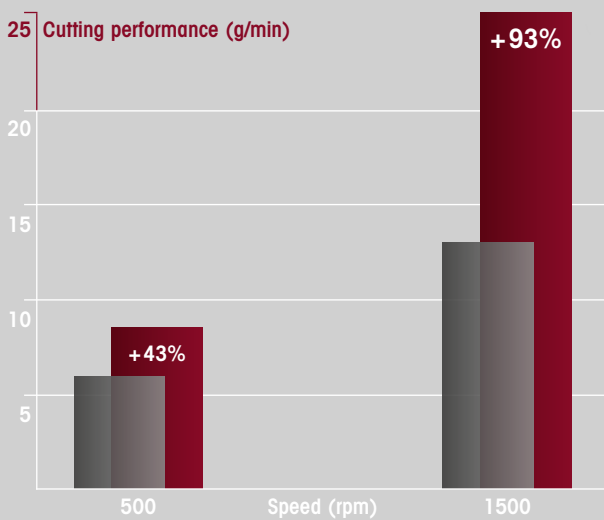








### Experience speed in a new way

The **PIRANHA Blade Vmax** offers you a unique combination of efficiency, controllability and maximum safety.



Maximum speed for shorter surgical times:  
Using **PIRANHA Blade Vmax**, the average cutting performance increases by 82%.\*

-  Standard rotary Morcellator
-  **PIRANHA Blade Vmax**

\* Independent study by the Department of Urology, University Medical Center Mannheim (Germany), on the topic "Ex vivo – comparison of two electronic prostate morcellators", 2012.

# A strong team

SHARK, MegaPulse 70+,  
PIRANHA, ENDOCAM Logic 4K

## Simply economical: The complete system



### SHARK laser resectoscopes

The **SHARK** resectoscope line achieves breakthrough dimensions in terms of quality, control and safety. **SHARK** combines innovative technology with many years of experience and user feedback from around the globe.

The result is an uncompromising, truly high-quality system that makes your work more efficient.

### ENDOCAM Logic 4K

With the **ENDOCAM Logic 4K**, Richard Wolf offers an impressive turnkey system for a wide range of endoscopy applications. Its tailored image formation and processing are continuously optimized to 4K.

The result: clear, pin-sharp images in very realistic colors that make the difference in endoscopy.

- Lossless lenses
- Ergonomic ENDOCAM Logic 4K camera head
- Innovative ENDOCAM Logic 4K Camera Controller
- Energy-efficient ENDOLIGHT LED 2.2 light source



**ENDOCAM Logic 4K:** The new Sharp.  
Making the difference in endoscopy.

### PIRANHA Morcellator

The extremely atraumatic distal tip of the **PIRANHA Morcellator** is open at the top and significantly reduces unwanted aspiration of bladder mucosa.

When combined with our "Vmax Blades", this results in a highly efficient system for high-speed morcellation.

### MegaPulse 70+

The **MegaPulse 70+** laser is a powerhouse. Its performance is not only impressive because of its outstanding high frequency and energy, but also because of the option to individually selectable pulse lengths in the EXPERT mode.

- **Power:** max. 70 watts
- **Energy:** max. 5 joules
- **Frequency:** max. 60 hertz

Thanks to its intuitive and comfortable handling, users easily master the three available tried and tested modes.

- **LITHOTRIPSY mode**
- **SOFT TISSUE mode**
- **EXPERT mode**



**MegaPulse 70+:** Power. Flexibility. Usability.  
70 W Holmium:YAG laser system

# Order data

Recommended instrument combinations  
from our product portfolio\*



## HoLEP, ThuLEP SHARK continuous irrigation resectoscope

26 Fr., 30°, for blunt enucleation of the prostate

**Laser working element** ..... 8654382

Optional:

**Laser working insert** ..... 8654383

### PANOVIEW telescope

30° ..... 8654.422

12° ..... 8654.431

### Fiber light cable, 2.5 mm

2.3 m complete ..... 806625231

### Outer sheath

26 Fr. .... 8675426

### Inner sheath with stainless steel tip

24 Fr. .... 8675524

### Obturator

24 Fr. .... 8673324

### Laser-fiber guide tubes

for inner sheath 24 Fr.

1000 µm, distal end straight ..... 8654991

600 µm, distal end straight ..... 8654993

600 µm, distal end slanted ..... 8654995

600 µm, with distal ring ..... 8654997

### Curette (only fits with 8654382)

for prostate chips from 22 Fr.

600 µm ..... 8654998



## Bipolar enucleation SHARK continuous irrigation resectoscope

24/26 Fr., 30°, for bipolar enucleation of the prostate

**Bipolar working element, active, closed** ..... 8680205

### PANOVIEW telescope

30° ..... 8654.422

12° ..... 8654.431

### Fiber light cable, 2.5 mm

2.3 m complete ..... 806625231

### Outer sheath

26 Fr. .... 8675426

### Inner sheath

24 Fr. .... 8675324

### Obturator

24 Fr. .... 8673024

### Viewing obturator

24 Fr. .... 8673124

### Dilatations obturator

24 Fr. .... 8673224

### Bipolar enucleation electrode

24 Fr.,

individual sterile packaging (PU = 3 pieces) 46400243

\* These are recommended instrument combinations. In addition, Richard Wolf offers an extensive range of other instruments for enucleation. Additional information can be found at [www.richard-wolf.com](http://www.richard-wolf.com)

# Order data



**PIRANHA**  
morcellation system

<b>Power Stick M 4</b>	
Motor handpiece incl. connection cable .....	<b>8564.122</b>
<b>Power Control 2303</b>	
Motor Control Unit .....	<b>2303.001</b>
<b>Power cable</b> .....	<b>2440.03</b>
<b>Suction pump 2208</b> .....	<b>22080019</b>
<b>Single-use tube set</b>	
(PU = 10 pieces) .....	<b>41702208</b>
<b>Single-use tissue collecting container</b>	
(PU = 10 pieces) .....	<b>2208120</b>



**Morcescope, 0°**  
in combination with **SHARK** outer sheaths

<b>Morcescope</b>	
Capacity 5 mm, 2 irrigation channels, for auxiliary instruments up to Ø 4.8 mm .....	<b>89704071</b>
<b>Fiber light cable, 3.5 mm</b>	
2.3 m complete .....	<b>806635231</b>
<b>PIRANHA Blade Vmax rotary Morcellator</b>	
Single-use, individually sterile packaged (PU = 3 pieces)	
WL 335 mm .....	<b>49700113</b>
WL 385 mm (for Storz telescope) .....	<b>49700103</b>

# Order data



**MegaPulse 70+**  
Holmium:YAG Laser

**MegaPulse 70+ set**, comprising:

MegaPulse 70+ laser (2286007), 2x laser protection goggles (OBM003603), 1x key set (2286525), 1x door contact plug (2286520), 2x blast shield (OAM001523), 1x filling bottle with tube (IAM000088), 1x double-pedal footswitch (2030232), 1x fiber-stripping forceps (2286527), 1x fiber-stripping forceps (2286523), 1x ceramic cutter with silicone pad (AGM000080), 1x accessories box for MegaPulse (KBM000103), 1x power cable 3 m (2286230) ..... **22860070**

**Disposable laser fibers**

∅ 550 µm ..... **487501550\***  
 ∅ 800 µm ..... **487501800**  
 ∅ 1000 µm ..... **4875011000**

**Reusable laser fibers**

∅ 550 µm ..... **87501550\***  
 ∅ 800 µm ..... **87501800**  
 ∅ 1000 µm ..... **875011000**

**\* Recommendation.**

Other laser fibers for different applications can be found in the Urology catalog.



**ENDOCAM Logic 4K**

**ENDOCAM Logic 4K Camera Controller complete**

Comprising:

ENDOCAM Logic 4K Controller (5525301), handheld remote control (5525401), USB flash memory 32 GB (72321829), HDMI / HDMI-cable, lockable 3.0 m (103847), power cable (2440.03) ..... **55253011**

**PENDUAL blue HD camera head**

Bendable housing

for two operating modes:

1: pivoting camera head

2: straight camera head

Integrated lens f = 15 mm

Cable length: 3 m ..... **5525833**

**For this:**

**ENDOLIGHT LED 2.2 complete**

Comprising:

ENDOLIGHT LED 2.2 (5164001)

and power cable

(2440.03) ..... **51640011**



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