

Leading the way,
with seamless integration

 meets  **Piranha**

Solutions for enucleation and morcellation

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Endoscopic enucleation of the prostate (EEP)

Classic surgical techniques for the treatment of benign prostatic hyperplasia (BPH) exist; however, new methods are trending in Urology towards endoscopic enucleation of the prostate, or (EEP).

Richard Wolf offers a wide range of products for both laser and bipolar enucleation, and now offers seamless integration of resection (SHARK) with our highly efficient PIRANHA morcellation system. **SHARK meets PIRANHA.**

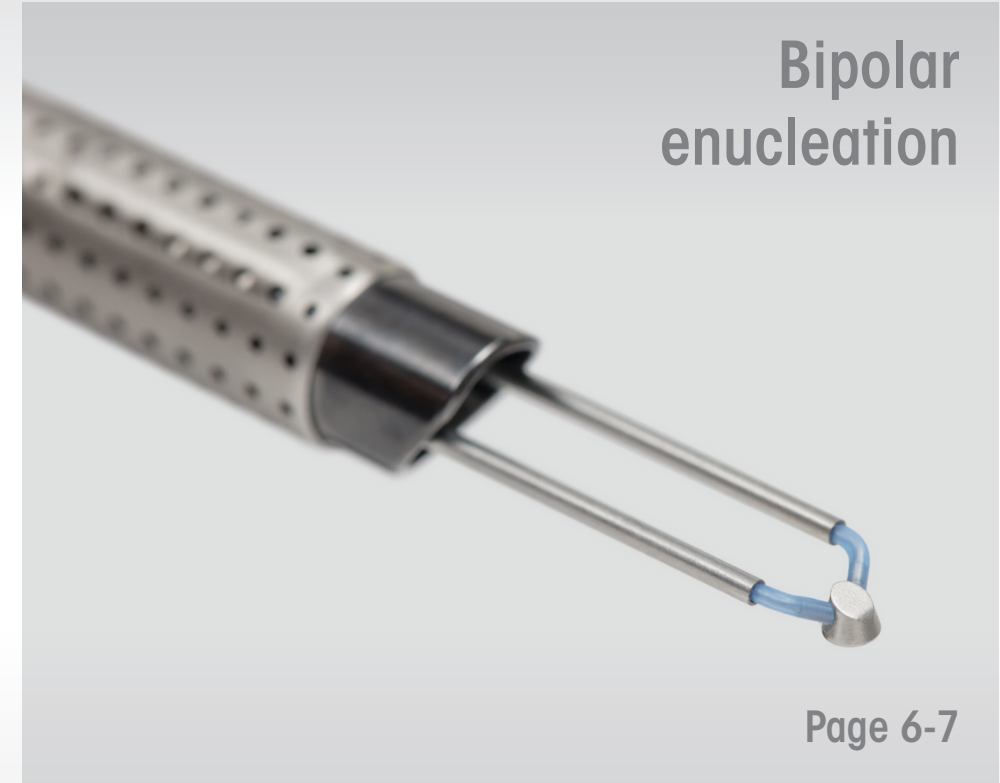


Laser enucleation



Page 4-5

Bipolar enucleation



Page 6-7

Tissue morcellation

Page 8-9



Laser enucleation

Everything under control

- A **working element** based on classic resection techniques for precision and control
- 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
- **Easy clamping mechanism** for smooth insertion and stability for laser fibers

Large selection

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

- A special stabilizer ("wing") in the distal area enables precise work
- The laser fiber guide tubes are suitable for laser fibers for HoLEP and ThuLEP from 550 to 1000 µm

Curette



Straight end-1000 µm



Distal ring



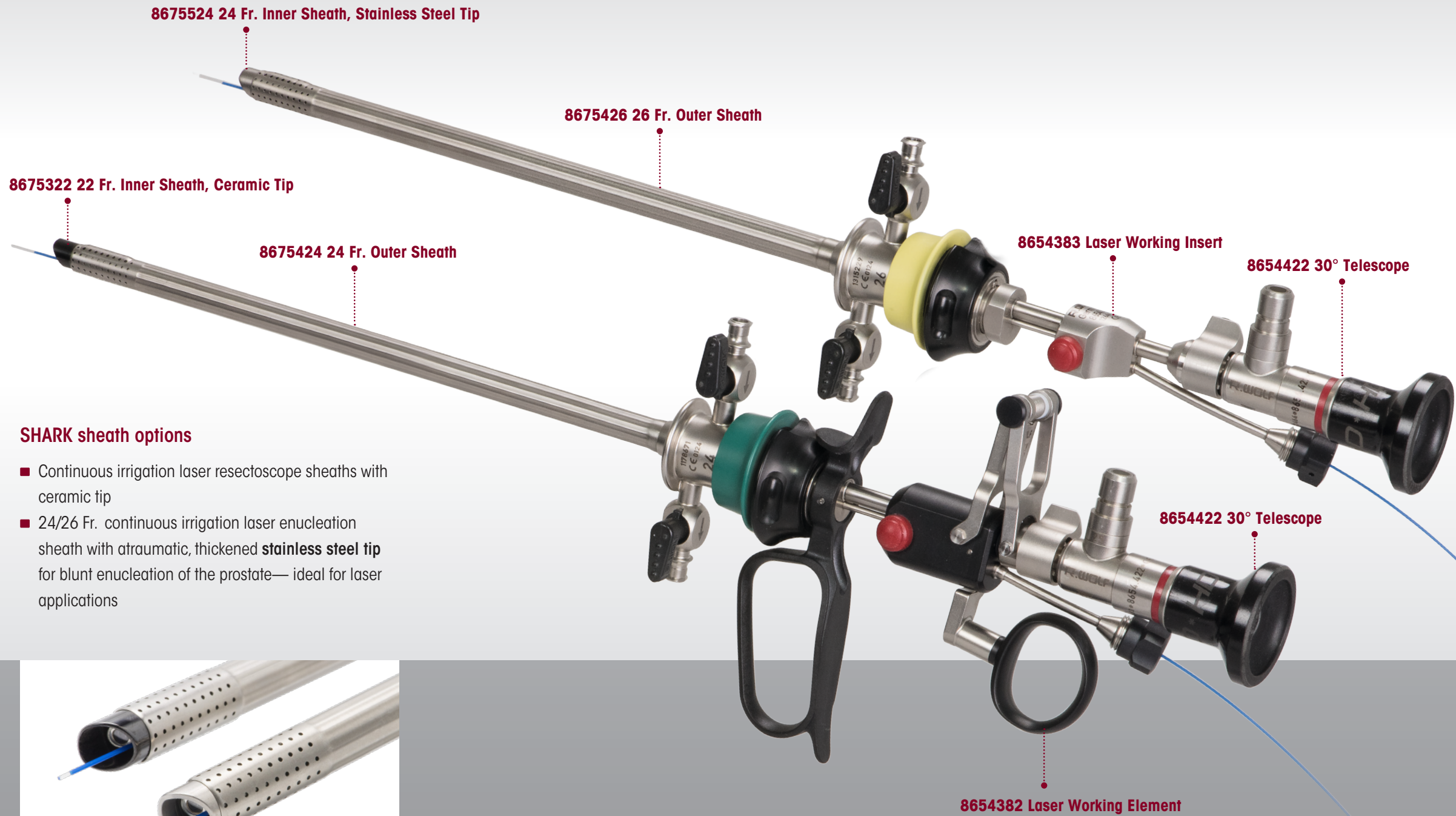
Slanted end



Straight end-600 µm



Large selection of laser guide tubes



SHARK sheath options

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



Top: Continuous irrigation laser resectoscope sheath with ceramic tip.

Bottom: Continuous irrigation enucleation sheath with stainless steel tip

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 Precision 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 “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.



5 46400223, Bipolar Enucleation Electrode, 22 Fr. 46400243, Bipolar Enucleation Electrode, 24 Fr.

Ideal for blunt enucleation

Bipolar enucleation (bipoleP) is a cost-efficient alternative to laser therapy. The Richard Wolf HF-GENERATOR provides a specially coordinated preset for bipoleP and ensures excellent performance when used on tissue, particularly in combination with the bipolar enucleation electrode from Richard Wolf.

Shark sheaths—continuous irrigation

	Outer Sheath	Inner Sheath
	24 Fr.	22 Fr. — Ceramic Tip
Rotatable	8675424	8675322
Non-rotatable	86754245	86753225
	26 Fr.	24 Fr. — Ceramic Tip
Rotatable	8675426	8675324
Non-rotatable	86754265	86753245
	26 Fr.	24 Fr. — Stainless Tip
Rotatable	8675426	8675524
Non-rotatable	N/A	N/A

Obturers

22/24 Fr. Obturers – for CERAMIC tip inner sheaths				
	Obturator for resectoscope 22 Fr.	WL 232 mm	Green	8673022
	Viewing obturator for resectoscope 22 Fr.			8673122
24/26 Fr. Obturers – for CERAMIC tip inner sheaths				
	Obturator for resectoscope 24 Fr.	WL 233 mm	Yellow	8673024
	Viewing obturator for resectoscope 24 Fr.	WL 232 mm		8673124
	Dilatations obturator for resectoscope 24 Fr.	WL 247 mm		8673224
	Timberlake obturator for resectoscope 24 Fr.	WL 130 mm		8654.67
24/26 Fr. Obturers – for STAINLESS STEEL tip inner sheaths				
	Obturator for resectoscope 24 Fr.	WL 232 mm	Yellow	8673324

Proven Performance

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

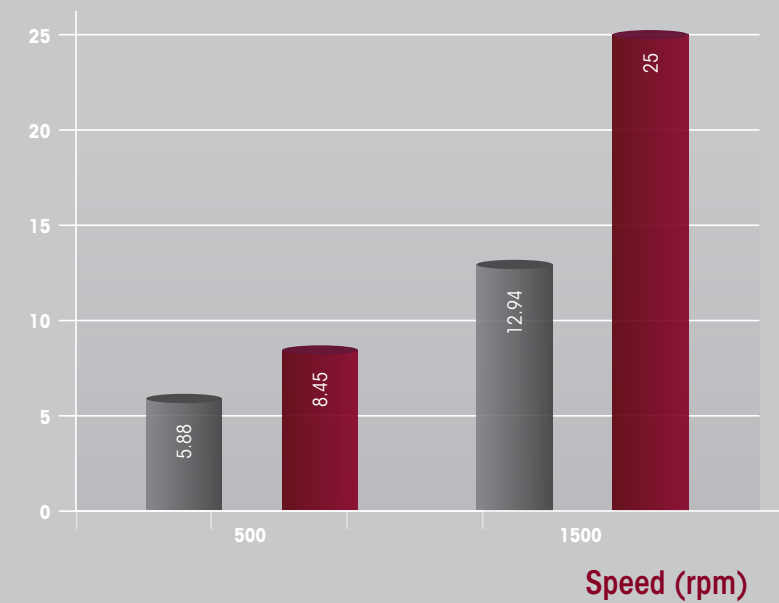
- High-performance, lightweight handle
- Footswitch for easy changeover between the different operating modes
- “**PIRANHA Mode**” for suction and morcellation
- “**Suction Mode**” for suctioning and fixation of adenoma fragments as well as suctioning of blood clots
- Special collecting container to 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.

Cutting performance (g/min)



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.

ENDOCAM Logic

Optimized for Urology, Richard Wolf's **ENDOCAM® Logic** Camera Platform is the ideal complement to **SHARK meets PIRANHA**, defined by its user-friendliness, versatility and brilliant image quality.

ENDOCAM Logic HD Pendual Camera Head

- Effortless conversion from pendulum (right angle) to a straight handle for enhanced flexibility and efficiency, especially during resection
- CMOS image sensor
- Freely rotating integrated snap-on lock fixed focal length coupler (f=14 mm)
- Two programmable camera head buttons capable of controlling up to four functions

ENDOCAM Logic 4K Camera Controller

- True 4K UHD resolution – 4096 x 2160 pixels
- Integrated recording system allows user to store HD images and videos on a USB stick
- User-friendly interface enables quick setting changes



5525301, ENDOCAM Logic 4K Camera Controller



5525933, ENDOCAM Logic HD Pendual Camera



reddot design award

CONDOR

Condor Multi-Use Equipment Cart

The Condor Multi-Use Equipment Cart offers compact storage and transportation of Richard Wolf's PIRANHA tissue Morcellator, including a specially designed double canister holder for enhanced operational efficiency.

- Adjustable IV pole
- Transportation handle
- Adjustable shelf (x1)
- Adjustable storage drawer
- Internal and external cable management
- Integrated medical-grade power strip with four outlets and 10 ft. power cord
- Four lockable casters
- Cart Dimensions (W x D x H): 25.1" x 23.0" x 42.6"
- Cart Weight: 120 lbs



2208030, Condor Multi-Use Equipment Cart

2208029, Condor Multi-Use Equipment Cart with Condor Cart Video Kit

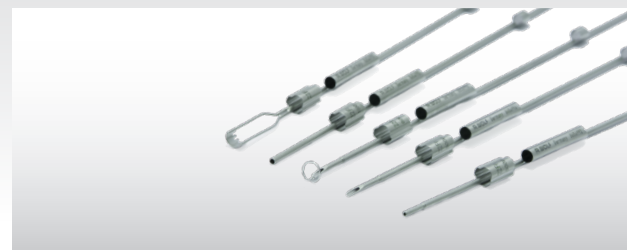
Ordering information

Recommended instrument combinations from our product portfolio*



HoLEP, ThuLEP
SHARK continuous irrigation resectoscope
 for blunt enucleation of the prostate

- Laser working element8654382
- Laser working insert8654383
- PANOVIEW telescope**
- 30°8654.422
- 12°8654.431
- 2.5 mm Fiber Light Cable Bundle.....806625301**
 Comprising: 2.5 mm Fiber Light Cable (80662530),
 Adapter for Richard Wolf Light Source (8095.07), Adapter
 for Richard Wolf Endoscope (809509)
- 24 Fr. Outer sheath**
- Rotatable.....8675424
- 22 Fr. Inner sheath**
- Rotatable, Ceramic Tip.....8675322
- 24 Fr. Outer sheath**
- Non-rotatable.....86754245
- 22 Fr. Inner sheath**
- Non-rotatable, Ceramic Tip.....86753225
- 26 Fr. Outer sheath**
- Rotatable.....8675426
- 24 Fr. Inner sheath**
- Rotatable, Ceramic Tip.....8675324
- 26 Fr. Outer sheath**
- Non-rotatable86754265
- 24 Fr. Inner sheath**
- Non-rotatable, Ceramic Tip.....86753245



- 24 Fr. Inner sheath**
- Rotatable, Stainless Steel Tip.....8675524
- Obturator for resectoscope**
- 24 Fr. (for stainless steel inner sheath).....8673324
- Obturator for resectoscope**
- 22 Fr.8673022
- Viewing obturator for resectoscope**
- 22 Fr.8673122
- Obturator for resectoscope**
- 24 Fr.8673024
- Viewing obturator for resectoscope**
- 24 Fr.8673124
- Timberlake obturator for resectoscope 24 Fr.....8654.67**
- Dilatation obturator for resectoscope 24 Fr..... 8673224**
- Laser fiber guide tubes**
 for inner sheath
- 1000 µm, distal end straight 22 Fr.8654990
- 1000 µm, distal end straight 24 Fr.8654991
- 600 µm, distal end straight 22 Fr.8654992
- 600 µm, distal end straight 24 Fr.8654993
- 600 µm, distal end slanted 22 Fr.8654994
- 600 µm, distal end slanted 24 Fr.8654995
- 600 µm, with distal ring 22 Fr.8654996
- 600 µm, with distal ring 24 Fr.8654997
- Curette (only fits with 8654382)**
 for prostate chips from 22-24 Fr. 600 µm 8654998

Ordering information



Bipolar enucleation
SHARK continuous irrigation resectoscope

- Bipolar working element, passive, closed 8680.225**
- PANOVIEW telescope**
- 30°8654.422
- 12°8654.431
- 2.5 mm Fiber Light Cable Bundle.....806625301**
 Comprising: 2.5 mm Fiber Light Cable (80662530),
 Adapter for Richard Wolf Light Source (8095.07), Adapter
 for Richard Wolf Endoscope (809509)
- Outer sheath**
- 26 Fr. Rotatable.....8675426
- Inner sheath**
- 24 Fr. Rotatable, Ceramic Tip8675324
- Obturator**
- 24 Fr.8673024
- Viewing obturator**
- 24 Fr.8673124
- Bipolar enucleation electrode**
- 24 Fr., individual sterile packaging (pack = 3 pieces)
46400243
- 22 Fr., individual sterile packaging (pack = 3 pieces)
46400223

* 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/en-us/



PIRANHA
 morcellation system

- Power Stick M4**
- Motor handpiece incl. connection cable.....8564122
- Motor Control Unit Bundle**
- Motor Control Unit incl. power cable23030111
- PIRANHA Suction Pump Bundle.....22080116**
 Comprising: Suction Pump with 643211637 Connecting
 Cable (2208011), Power Cord (N710171), Foot Pedal
 (2030108), Vacuum Tube (8170.6554), Bottle Bracket
 (64031.381), Bacteria Filter (pack of 10/2228.901), Sound
 Absorber (pack of 3/35100.115), 3L Secretion Container &
 Lid (077.0130 & 077.0420)
- Single-use tube set**
 (pack = 10 pieces)41702208
- Single-use tissue collecting container**
 (pack = 10 pieces)2208120
- Condor Multi-Use Equipment Cart.....2208030**
- Condor Cart Video Kit 2208029**

Ordering information



Morcescope, 0°

in combination with **SHARK** outer sheaths

Morcescope 0° 24 Fr. WL 199 mm Bundle.....89704075

Comprising: Morcescope 0° 24 Fr WL 199 mm, Capacity 5.1 mm, 2 irrigation channels, for auxiliary instruments up to Ø 4.8 mm (8970407), Cleaning Brush Ø 7 mm TL 400 mm (7970407), Cleaning Brush Ø 9 mm TL 400 mm (7970409), Cleaning Brush Ø 11 mm TL 400 mm (7970411), Double Conical Straight Cleaning Brush (7980002), Cleaning Brush Ø 5 mm WL 42 mm (40999012), Luer Lock Connector (886.00), Automatic Valve ID 5.7 mm (8920.311)

Compatible with Shark outer sheaths:

- 24 Fr. Outer sheath, Rotatable8675424
- 24 Fr. Outer sheath, Non-rotatable.....86754245
- 26 Fr. Outer sheath, Rotatable.....8675426
- 26 Fr. Outer sheath, Non-rotatable86754265

Morcescope 0° 24 Fr. WL 224 mm Bundle.....89704055

Comprising: Morcescope 0° 24 Fr WL 224 mm, Capacity 5 mm, for auxiliary instruments up to Ø 4.8 mm (8970405), Cleaning Brush Ø 7 mm TL 400mm (7970407), Cleaning Brush Ø 9 mm TL 400 mm (7970409), Cleaning Brush Ø 11mm TL 400mm (7970411), Double Conical Straight Cleaning Brush (7980002), Cleaning Brush Ø 5 mm WL 42 mm (40999012), Luer Lock Connector (886.00), Automatic Valve ID 5.7 mm (8920.311)

Compatible with Shark & E-Line outer sheaths. Adapters needed for each.

- 24 Fr. Outer sheath, Rotatable 8675424
- 24 Fr. Outer sheath, Non-rotatable86754245



26 Fr. Outer sheath, Rotatable8675426

26 Fr. Outer sheath, Non-rotatable.....86754265

Shark adapter for Morcescope

24/26 Fr.8675026

24.5 Fr. E-line Outer Sheath

corrugated shaft.....8655334

24.5 Fr. E-line Outer Sheath

laser therapy.....8655314

26 Fr. E-line Outer Sheath.....8655374

E-line adapter for Morcescope

26 Fr.8970.026

3.5 mm Fiber Light Cable Bundle.....806635301

Comprising: 3.5 mm Fiber Light Cable (80663530), Adapter for Richard Wolf Light Source (8095.07), Adapter for Richard Wolf Endoscope (809509)

PIRANHA Morcellator Blade

Single-use, individually sterile packaged (pack = 3 pieces)
Wolf blade, WL 335 mm Ø 4.8 mm.....49700213
Long blade, WL 385 mm Ø 4.8 mm.....49700203

Cleaning Brush

Ø 7 mm TL 400 mm (pack = 10 pieces).....7970407

Cleaning Brush

Ø 9 mm TL 400 mm (pack = 10 pieces).....7970409

Cleaning Brush

Ø 11 mm TL 400 mm (pack = 10 pieces).....7970411

Double Conical Straight Cleaning Brush

(pack = 50 pieces).....7980002

Single-Use Surface Cleaning Brush

(pack = 3 pieces).....40999012

ENDOCAM Logic



ENDOCAM Logic Camera Platform

ENDOCAM Logic 4K Camera

Controller Bundle552530115

Comprising: ENDOCAM Logic 4K Camera Controller (5525301), HDMI / HDMI Lockable 3.0 m (103847), Manual Remote (5525401), Power Cable (N710171), 8 GB USB Stick (56540028)

ENDOCAM Logic HD Pendual Camera Head.....5525933

ENDOLIGHT LED 2.2 Light Source Bundle.....51640011

Comprising: ENDOLIGHT LED 2.2 Light Source (5164001), Patch Cable (72325378), Power Cable (N710171)

2.5 mm Fiber Light Cable Bundle.....806625301

Comprising: 2.5 mm Fiber Light Cable (80662530), Adapter for Richard Wolf Light Source (8095.07), Adapter for Richard Wolf Endoscope (809509)

32" 4K Medical Monitor.....LMD-X3200N

UPDR-80MD Medical Printer.....5365.855

RIWomobil OR Cart Bundle.....3211601355

Comprising: RIWomobil OR Cart, CO2 bottle holder (2x), keyboard drawer, swivel arm, central arm adapter, drawer, shelf (2x), lateral monitor mount (VESA 75/100), spiral hose, IV pole, screws, transport locks (2x), remote mount, USB plate

