

A new experience
of speed



 **Piranha**

Laser Enucleation System



Laser Enucleation System

Laser Enucleation for BPH is continually increasing in importance. The PIRANHA Laser Enucleation System from Richard Wolf also offers urologists a comprehensive, precisely coordinated system comprising laser resectoscope, PIRANHA Scope and tissue morcellator.

The powerful performance of the PIRANHA Morcellation System, supplemented by further intelligent application benefits enable users to have a new experience of speed and increase the quality of the intervention.



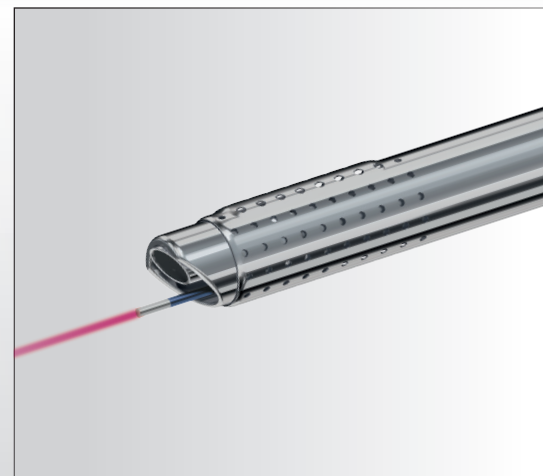
- Enucleation and morcellation without changing sheath
- Enucleation and morcellation even possible with 24.5 Fr. continuous irrigation sheath
- Can be used with all laser fibers up to 1000 μ m
- Precise enucleation with special fiber guidance
- Intuitive operation of instruments and devices
- Longest track record of experience in the area of laser TUR
- Perfectly matched system
- This system can also be used with resectoscope working elements for hemostasis or for follow-up resection



Special laser resectoscope sheath

for blunt enucleation of the prostate

- Optional special sheath for laser TUR-P
- Inner sheath with thickened stainless steel tip: Particularly resistant and robust, even if the laser is inadvertently triggered



Laser Resectoscope and PIRANHA Scope

Laser enucleation and morcellation without changing sheath



Laser resectoscope

PIRANHA Scope

Laser resectoscope

- A working element for all laser fibers
- Laser-fiber guide tube easily exchangeable
- Biggest selection of guide tubes
- Working element can be used with the same sheath as the PIRANHA Scope. This eliminates the need to change sheath!
- Also possible to work with rotatable 24.5 Fr. continuous irrigation sheath
- If necessary, the laser working element can be exchanged for a resectoscope working element (monopolar or bipolar) in order to carry out subsequent resection or coagulation

Laser-fiber guide tube

Only one working element is required, independently of the fiber diameter and laser manufacturer, and five different laser-fiber guide tubes are available for use with it.

- With distally oblique beveled tip for better visualization of the fiber tip
- With loop for "keeping the tissue out of the way" of the enucleated chips
- Curved for Vapo Resection
- With straight distal end
- For fibers up to 1000 μm

PIRANHA Scope

- Outstanding visualization conditions by means of integrated irrigation channels
- Can be used without changing sheath – "Enucleation and Morcellation with one sheath"
- Rotatable adapter allows it to fit in the outer sheath of a continuous irrigation sheath
- Large working channel of 5 mm also accommodates a morcellator alongside high irrigation performance
- Telescope can be used with rotatable continuous irrigation sheaths of 24.5 or 26 Fr.
- Large automatic valve prevents water leakage from the working channel



Piranha Morcellation System

A new experience of speed

- High speed ensures maximum cutting force
- A single suction opening avoids the inadvertent intake of bladder mucosal membrane
- Tissue is cut and not chopped
- Morcellated tissue is big enough for histology
- Particularly powerful, lightweight and quiet axial handle
- Handle and cable are fully autoclavable



More comfort

- Suction and morcellation is centrally managed
- User-friendly software saves time and protects against maloperations
- Easy to toggle between the different operating modes with the foot switch
- "PIRANHA Mode" for sucking and morcellation
- "Suction Mode" for sucking up coagulated blood or very small tissue chips
- Disposable tube sets make work easier

- Special collector tank collects the tissue chips efficiently. The closed collector can then be weighed and shipped for histology
- Simple and easy setup
- Extremely low noise level

More safety

- Extremely atraumatic, distal morcellator tip
- The bladder mucus membrane cannot be sucked up inadvertently
- Optimum visualization at the cutting window
- No irritating "ping-pong-effect"
- Oscillating cutting movement



Piranha Blade Vmax

High speed for the PIRANHA system

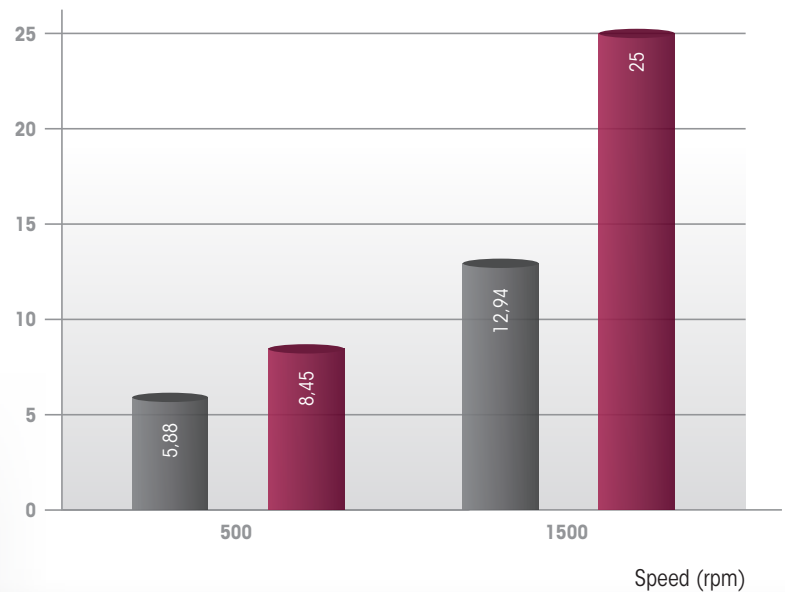
Proven enhancement of effectiveness

"High speed" is the route to short operating times: An independent, experimental ex vivo investigation shows that the **PIRANHA Blade Vmax** achieves an 82 % higher ablation rate on average.*

- Standard Morcellator-Blade
- New PIRANHA Blade Vmax

* Independent investigation by the Hospital for Urology, University Medical School Mannheim on the subject of "Ex-vivo – Vergleich von zwei elektronischen Prostata Morcellatoren", 2012 (Ex-vivo – Comparison of two electronic prostate morcellators).

Cutting performance (g/min)



PIRANHA Blade Vmax

- Unique combination of efficiency and control
- High-speed morcellation with aggressive cutting teeth
- Maximum safety and control

Uncompromising sharpness

- Guaranteed sharp because it is a single use product
- Easy handling, can be used anywhere

More aggressive cutting geometry

- Number and configuration of cutting teeth optimized

Improved suction power

- Bigger suction and cutting window for faster morcellation

High cutting power

- As a result of modified cutting geometry
- Yields bigger tissue chips to facilitate investigation of pathology



Ordering data

Complete Laser Enucleation Sets

Packages of complete sets for instrument set and devices:	
LASER ENUCLEATION SET I comprising: Microprocessor-controlled high-power suction pump with LCD display, 100–240 V/50/60 Hz (2208001), rocker foot switch (2030108), connection cable (2208121), bottle holder (64031.381), sound absorber (pack of 3) (35100115), vacuum hose (8170.6554), 2 x power cable (2440.03), overflow protector/bacteria filter (pack of 10) (2228.901), secretion holder 2000 ml (8170.655), instruction manual (GA-A 252), PANOVIEW Telescope (8654.422), working element (8654.282), guide tube (8654.981), guide tube (8654.985), PIRANHA Scope (8970402), pressure ball (103.00), luer-lock tube fitting (886.00), cleaning brush (6.01), autom. seal (8920.311), continuous irrigation rotation outer sheath "E-line", 26 Fr. (8655.374), continuous irrigation rotation inner sheath "E-line", 24 Fr. (8655.3841), rotatable adapter (8654.3742), dilation obturator (8654175), viewing obturator (8415.12), rotation morcellator (8970.011), Power Control Generator (2303.001), Power Stick M 4 handle (8564.021), connection cable (8564.851), disposable tube set (pack of 10) (41702208), disposable tissue collector tank (pack of 10) (2208120).....	22080025
LASER ENUCLEATION SET II Like Set I but with monopolar resectoscope working element and HF electrodes	22080026
LASER ENUCLEATION SET III Like Set I but with bipolar resectoscope working element and HF electrodes	22080027
LASER ENUCLEATION SET IV Like Set I but with 24.5 Fr. continuous irrigation sheath, instead of 26 Fr.....	22080028
LASER ENUCLEATION SET V Like Set I but with 24.5 Fr. continuous irrigation sheath, instead of 26 Fr. and monopolar resectoscope working element with HF electrodes	22080029
LASER ENUCLEATION SET VI Like Set I but with 24.5 Fr. continuous irrigation sheath instead of 26 Fr. and bipolar resectoscope working element with HF electrodes	22080030

PIRANHA Morcellation System	
Rotation Morcellator for multiple use, Ø 4.75 mm, WL 350 mm	8970.011
Power Stick M 4 , motor handle (8564.021) with connection cable (8564.851), max. speed 6000 rpm	8564.121
Power Control , Generator for motor handle, 50/60 Hz, 100–240 V a.c.....	2303.001
Suction pump 2208 for continuous aspiration of irrigation fluid and separated tissue chips	2208.0010
Disposable Tube Set , (pack of 10)	41702208
Disposable tissue collector tank , (pack of 10).....	2208120

Ordering data

System components

Laser resectoscope	
PANOVIEW Telescope , Ø 4 mm, free from distortion, 30°	8654.422
Reprocessing basket for 4 mm PANOVIEW Telescope.....	38021.111
Working element with open handle and probe guide channel for laser treatment in the lower urinary tract, secure fixation of the laser probe with fixing mechanism	8654.282
Guide tube for laser fiber, inside diameter 1000 µm, overall length 251.2 mm	8654.981
Guide tube for laser fiber, inside diameter 600 µm, overall length 265 mm for Vapo Resection and for urethral slitting	8654.982
Guide tube (standard) for laser fiber, inside diameter 600 µm, overall length 265 mm with beveled distal tip for improved view on to the tip of the laser fiber	8654.985
Guide tube for laser fiber, inside diameter 600 µm, overall length 265 mm, with distal loop for pushing away the tissue chips	8654.986
Guide tube for laser fiber, inside diameter 550 µm, overall length 265 mm, with straight distal end	8654.987
Continuous irrigation outer sheath 26 Fr. for rotatable continuous irrigation resectoscope sheath system	8655.374
Continuous irrigation inner sheath 24 Fr. "E-line" , rotatable resectoscope continuous irrigation sheath with ceramic tip with automatic lock.....	8655.384
Atraumatic dilation obturator for rotatable continuous irrigation sheath system 8655.374/.384	8654.175
Standard obturator 24 Fr. for continuous irrigation sheath system 8655.374/.384	8654.17
Viewing obturator 24 Fr.	8415.120

PIRANHA Scope	
PIRANHA Scope Direction of view 12°, with parallel visualization, inside diameter 5 mm for auxiliary instruments up to 4.8 mm diameter, PANOVIEW rod lens systems, automatic valve at the working channel, continuous irrigation option via the continuous irrigation outer sheaths 26 Fr. (8655.374) and 24.5 Fr. (8655.334), in conjunction with the rotation morcellator (8970.011)	89704021
Reprocessing basket for PIRANHA Scope including instrument holder	38042.211

NEW!

PIRANHA Blade Vmax	
Rotation morcellator , WL 335 mm, disposable Ø 4.75 mm, (pack of 3)	49700113
Rotation morcellator , WL 385 mm (for Storz telescope), disposable Ø 4.75 mm, (pack of 3)	49700103

Optional sheath system	
Continuous irrigation outer sheath 24,5 Fr. for rotatable continuous irrigation resectoscope sheath system	8655.334
Continuous irrigation inner sheath 22,5 Fr. "E-line" , rotatable resectoscope continuous irrigation sheath with ceramic tip with automatic lock.....	8655.344
Standard obturator 22,5 Fr. for continuous irrigation sheath system 8655.334/.344	8654.16
Viewing obturator 22 Fr.	8415.11
Standard obturator 24 Fr. for continuous irrigation sheath system 8655.374/.384	8654.17
Viewing obturator 24 Fr.	8415.120
Laser resectoscope for blunt enucleation	
Outer sheath	8655314
Inner sheath	8655324
Obturator	865415
Universal sealing valve	4712348