

Getting started in HoLEP

What you need

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DEVELOPMENT OF HOLEP

- Holmium laser *ablation* of the prostate
HoLAP in 1996
- Holmium laser *resection* of the prostate
HoLRP 1997 - detach small pieces of tissue
- Holmium laser *enucleation* of the prostate
HoLEP 1998 - morcellator available

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KEY TO GETTING STARTED

1. Committed and focused on the technology
2. Appropriate training
3. Funding to purchase capital equipment
4. Support from hospital administration and urology department
5. Dedicated staff
6. Appropriate laser safety
7. All the appropriate equipment

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Dedicated Staff





Choosing the right Holmium laser

With clear clinical advantages, Holmium laser enucleation is considered the new Gold Standard for BPH treatments

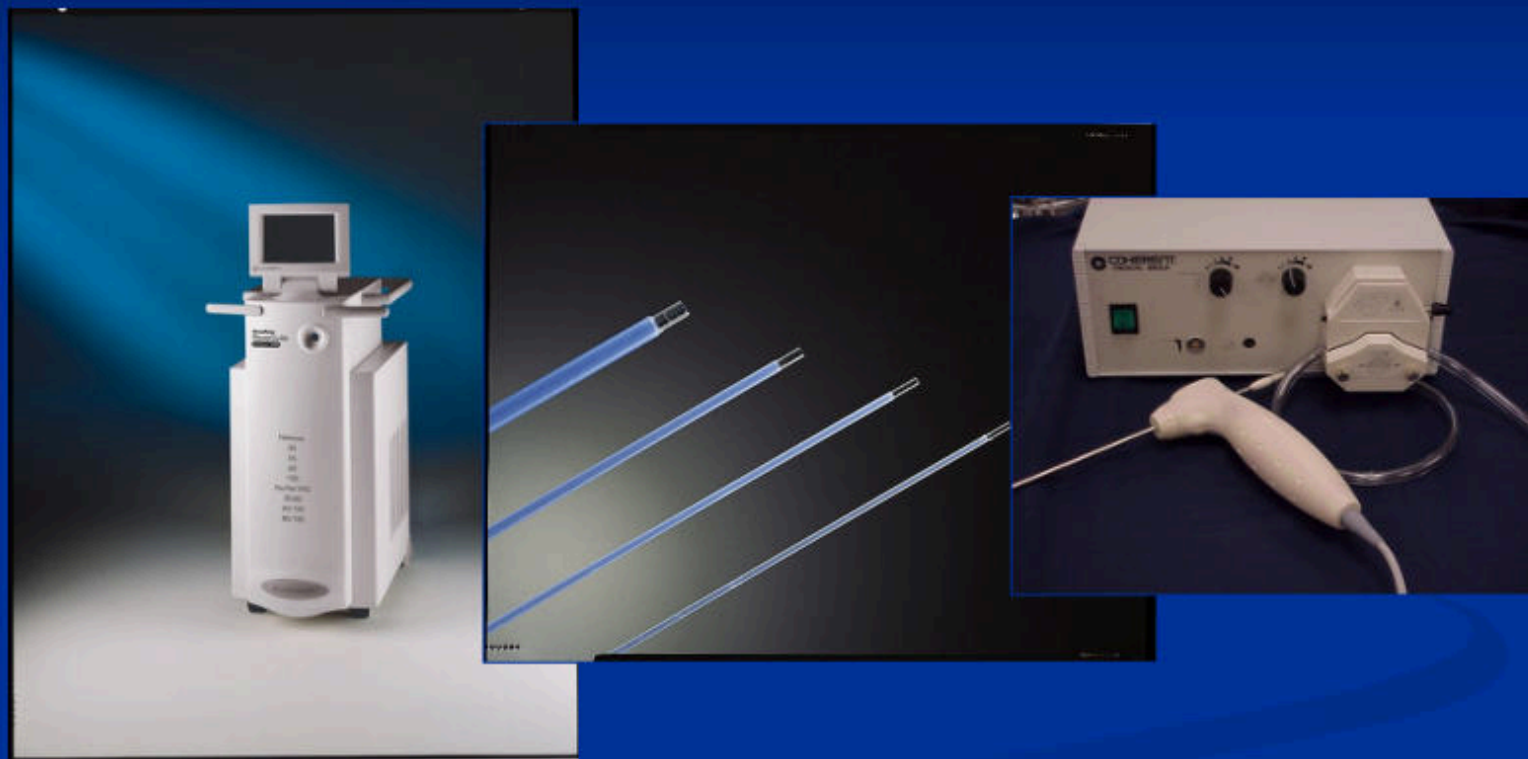
- Lumenis Pulse 120H – 120w Holmium laser
- Lumenis Pulse 100H – 100w Holmium laser
- Lumenis Pulse 50H – 50w Holmium laser
- Lumenis Pulse 30H – 30w Holmium laser

Our Holmium laser of choice is
the **MOSES P120H**

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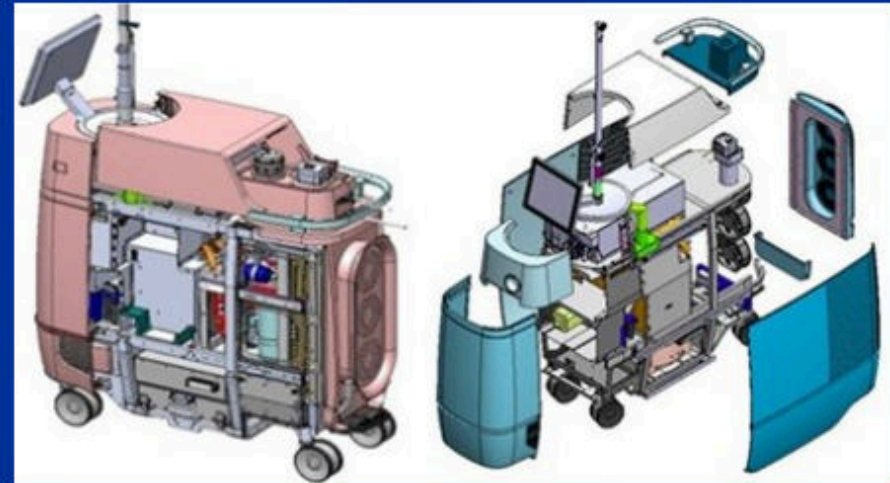
Holmium Laser – 100 watt

VersaPulse PowerSuite Holmium and Dual Wavelength lasers



Holmium Pulse 120

- Greater power (120 watts)
- Accelerated enucleation times, shorter operating time
- Dual foot pedal (precision)
- Improved coagulation and vaporisation
- Other uses: 'dusting' of kidney stones, prostate vaporisation



High power advantages in HoLEP

High enucleation rate and efficiency

Efficient bleeding control

High visibility during the procedure

MOSES P120H

Technology of choice for many reasons:

Multimodal platform:

- MOSES dusting Lithotripsy
- MOSES enucleation of the prostate
- MOSES controlled enucleation bladder tumors

Reduces the learning curve for HoLEP :

- Improved hemostasis, improved visibility
- Improved enucleation efficiency
- More stable fibers, less fiber adjustments

AND

- Higher vaporisation rate and efficiency, reducing procedure time
- Lower complication & re-operation rates



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The MOSES technology by Lumenis

A patent protected combination of Laser System and fibers for BPH Holmium laser treatments

Lumenis® Pulse 120H Moses™



Proprietary Moses™ fibers

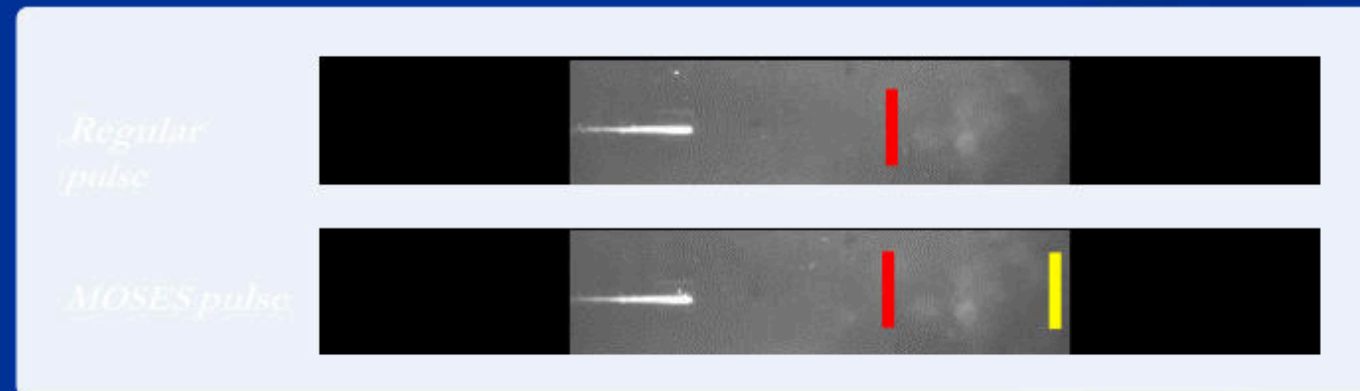


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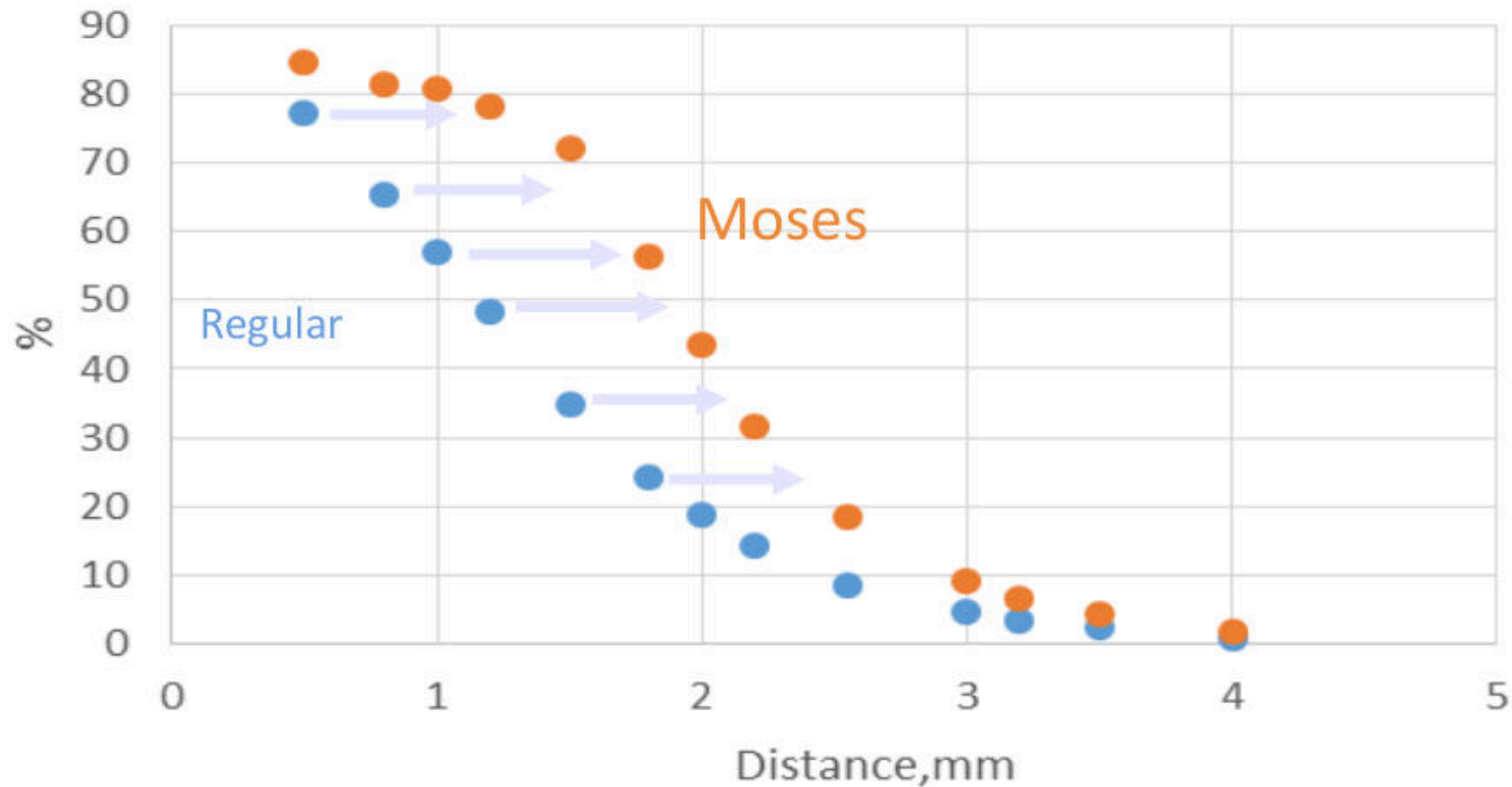
MOSES™
TECHNOLOGY

The MOSES effect

- Modulation of Holmium laser pulse so that it first separates the water, and then delivers the remaining energy through the bubble and towards the target tissue, thus less energy is lost to the surrounding



Optimizing energy transmission to target



My experience with the MOSES technology

Methods:

- 1. Using Lumenis® MOSES™ P120H**
- 2. Comparing Regular to MOSES modes using MOSES 550 D/F/L fiber**
- 3. Settings: 2J*60Hz**

My experience with the MOSES technology

- Improved enucleation: MOSES is **superior** to Regular mode
- Improved tissue effect: precise and sharper incision resulting in a **less irregular tissue** debris
- Efficient hemostasis: **less bleeding** during and following enucleation
- Better **fibre control** and durability



POWER REQUIREMENTS

Ensure you take into account power requirements

These high-powered lasers do **not** come standard plug or power

- 40 AMP – 50Hz
- Single phase/ 240volt

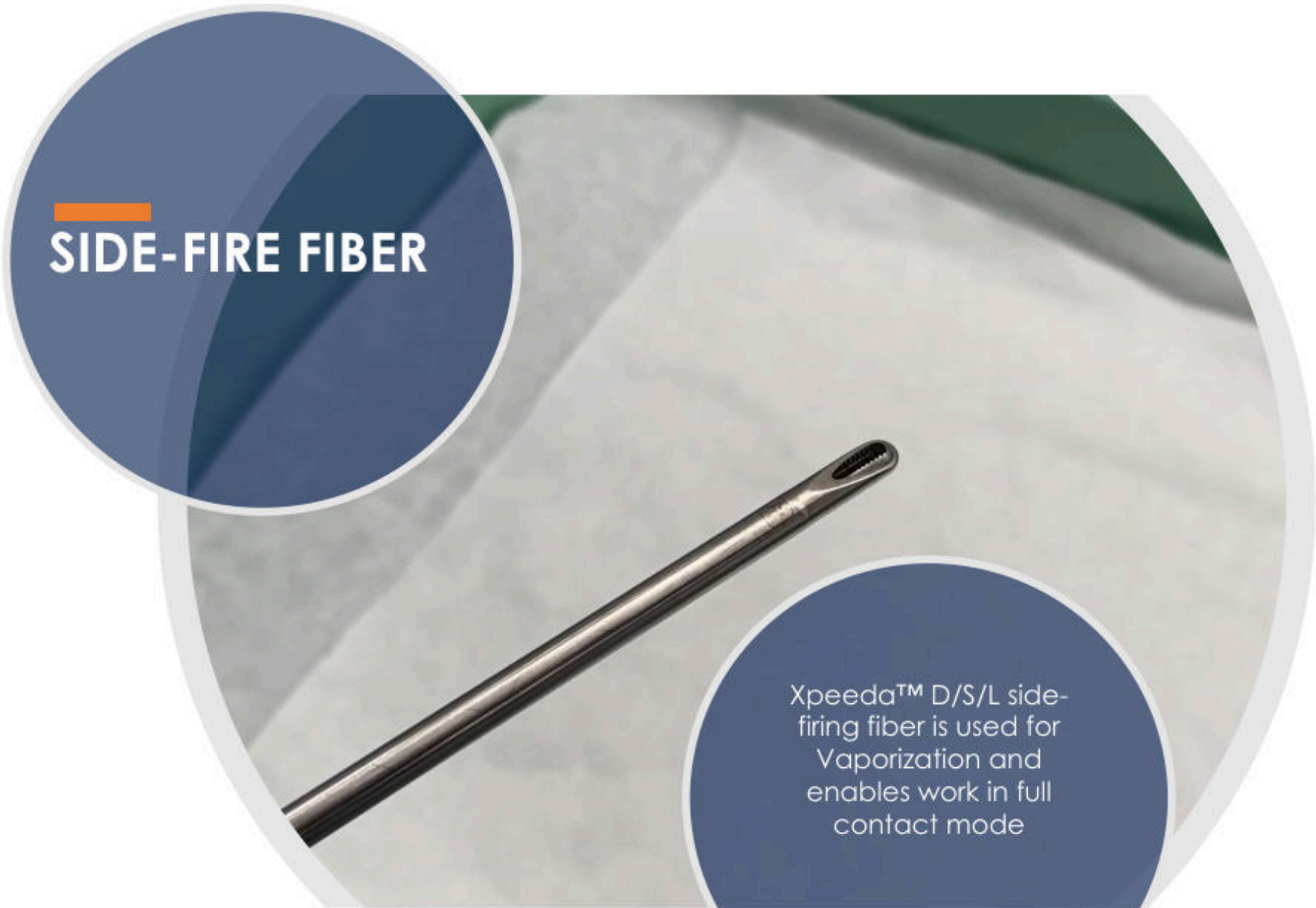
SLIMLINE FIBERS

Fibers are an integral part of the Moses Technology – these premium quality fibers are designed for optimal energy transmission and durability, showing minimal erosion compared to regular fibers

HoLEP: Moses™ 550 D/F/L
Max 6J, 80Hz, 120W

Vaporisation: Xpeeda™ D/S/L
Max 2J, 60Hz, 120W

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SIDE-FIRE FIBER

Xpeeda™ D/S/L side-firing fiber is used for Vaporization and enables work in full contact mode

Karl Storz HoLEP working element

For use with HOPKINS® Forward-Oblique Telescope 27005 BA

Working elements with a sliding carriage and fixation screw enables precise guidance of the LASER probes. This allows precise LASER therapy.

The working elements can be used with 24/26 Fr. Resectoscope Sheaths 27040 SL and 27050 SL.

Special Features:

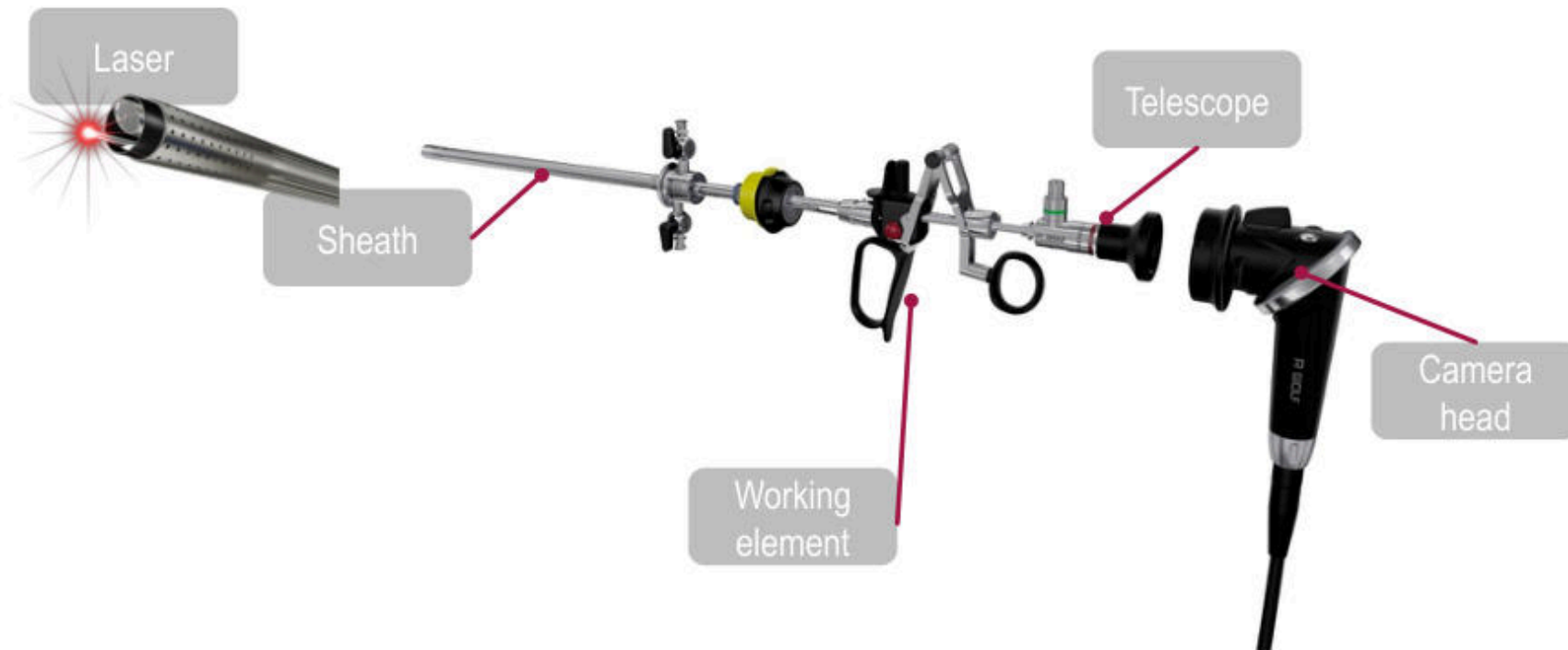
- Cutting by means of a spring
- Eliminates the risks associated with the complex handling of manually guided probes up to now. Long cooling breaks are no longer necessary.
- Facilitates exact adjustment to the structures to be treated
- Enhanced user and patient safety



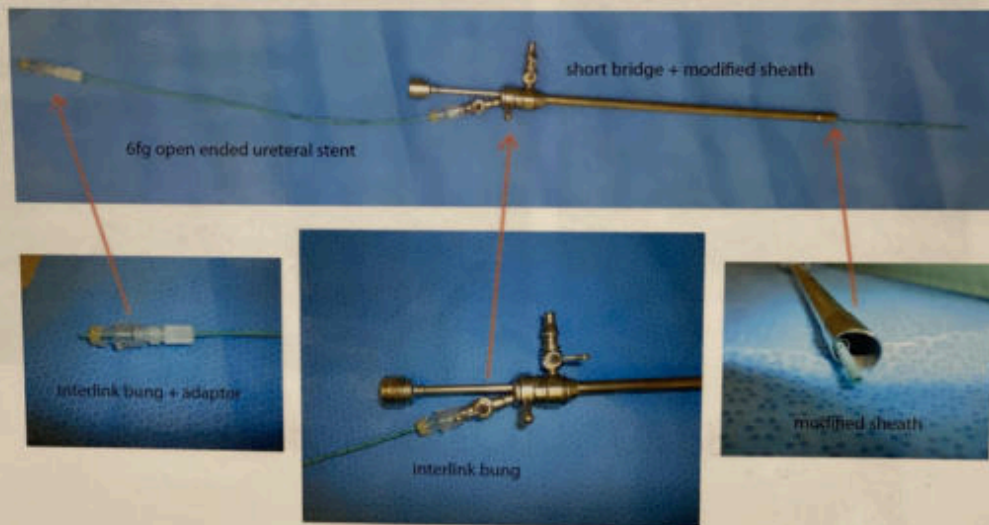
- 27056 LA KUNTZ Working Element, for use with resectoscope sheaths 24/26 Fr. 27040 SL, 27050 SL and LASER probes up to 0.8 mm
- 27056 LB Same, LASER probes up to 1.5 mm

Laser Resectoscopes *Shark*

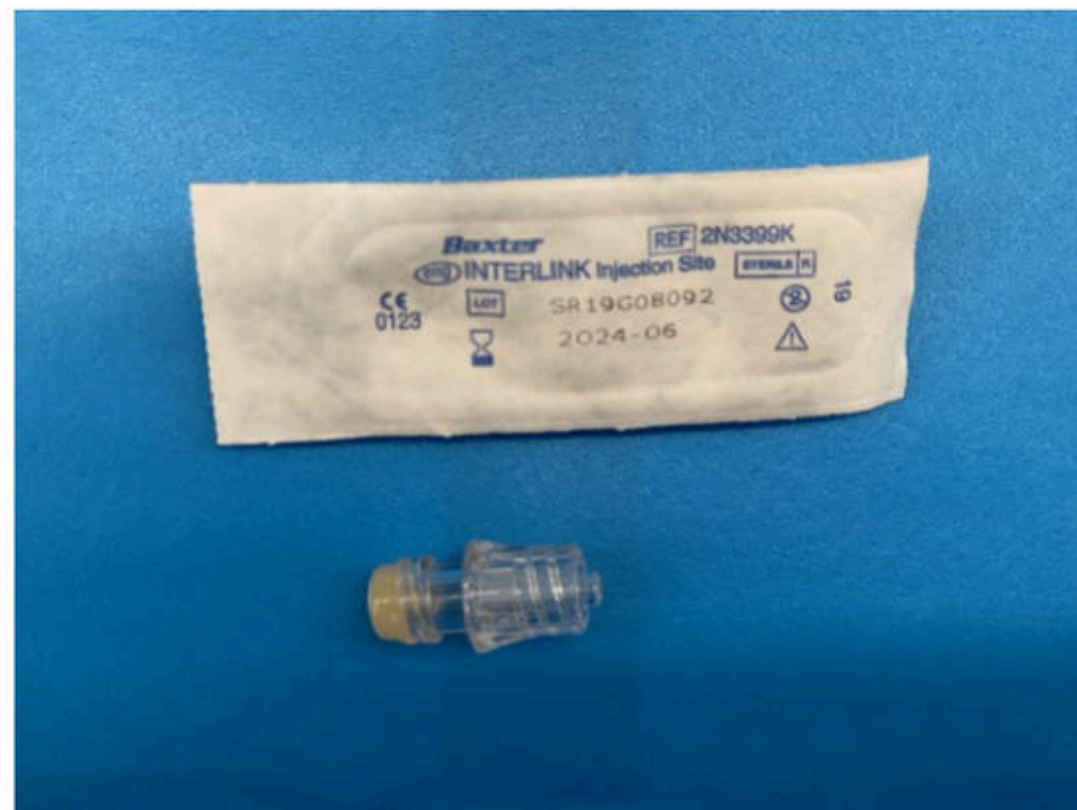
Resectoscopes - Overview and classification



HOLMIUM LASER ENUCLEATION OF PROSTATE







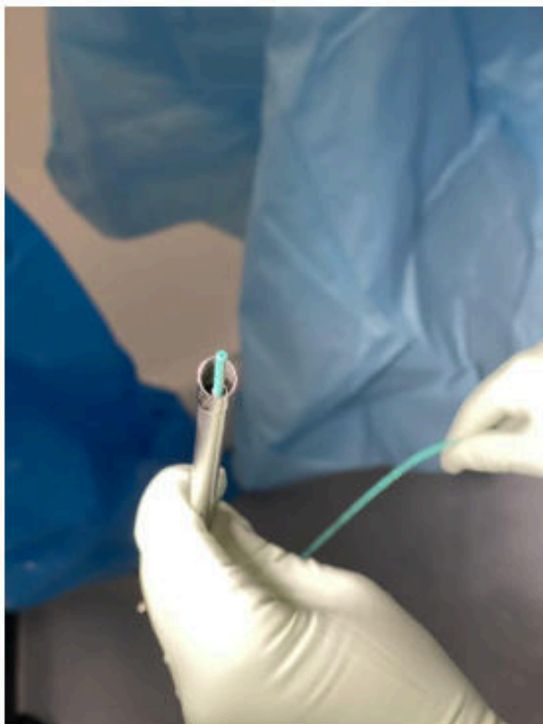


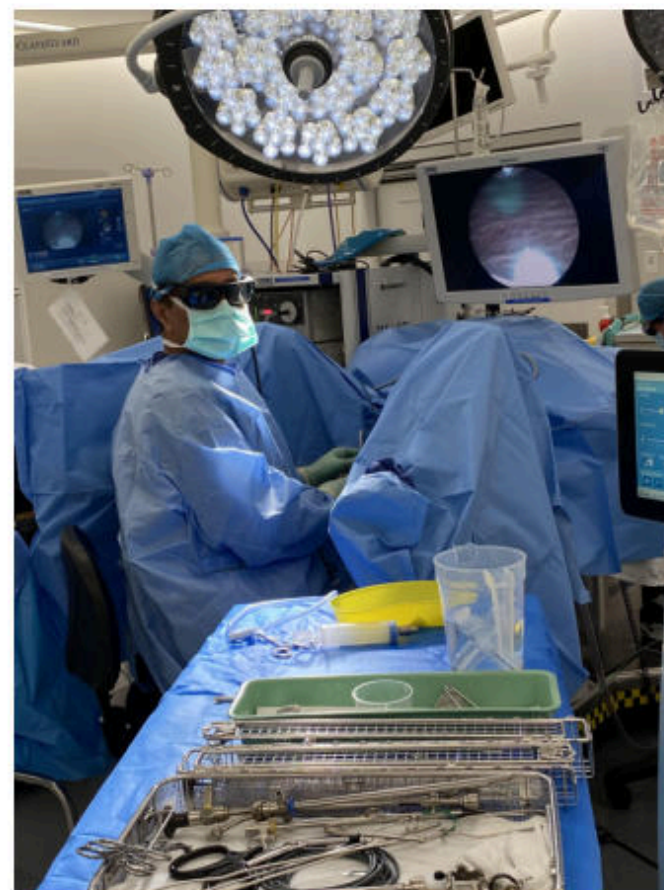
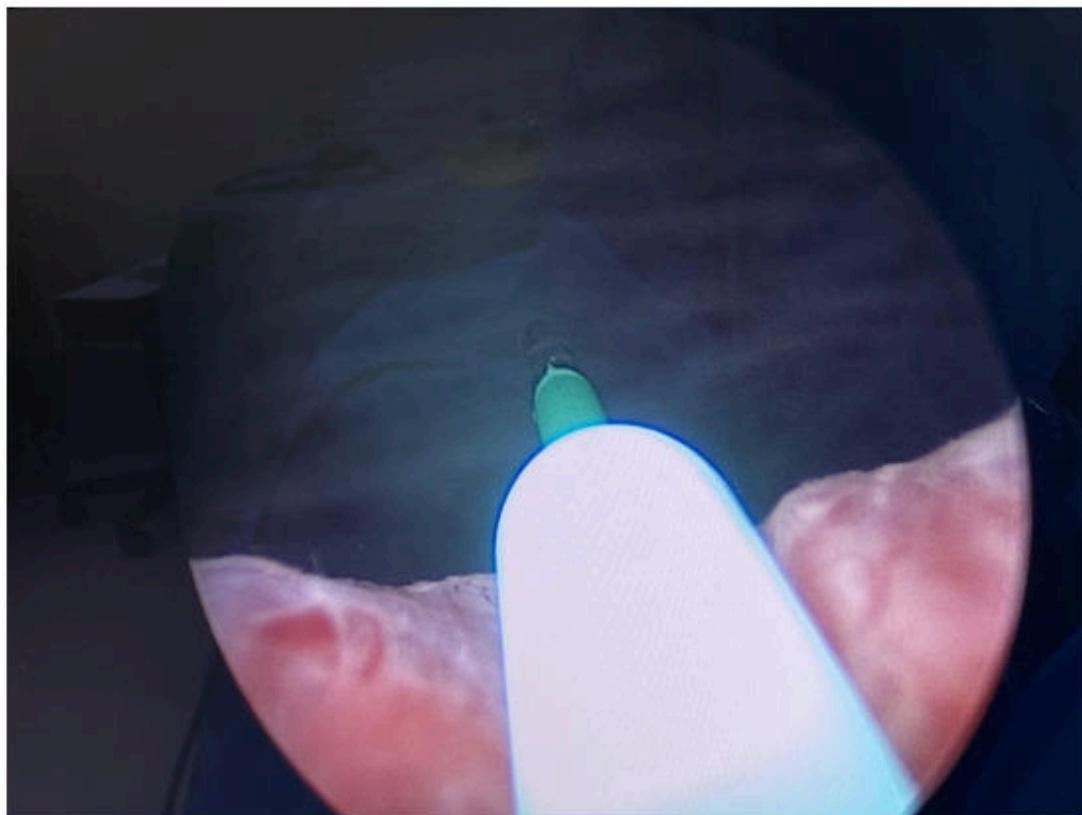
TOOLS OF THE TRADE

Resectoscope (Storz) with a high-quality camera to allow Surgeon to view the internal structure of the prostate gland, and to see where incisions are being made during surgery

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TOOLS OF THE TRADE

- Morcellator
- Bridge
- Working Sheath

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Piranha Laser Enucleation System

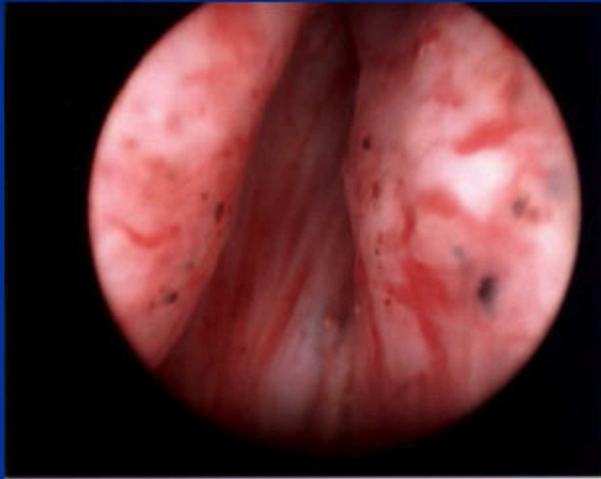
The Piranha Morcellation System - Overview

■ Piranha units

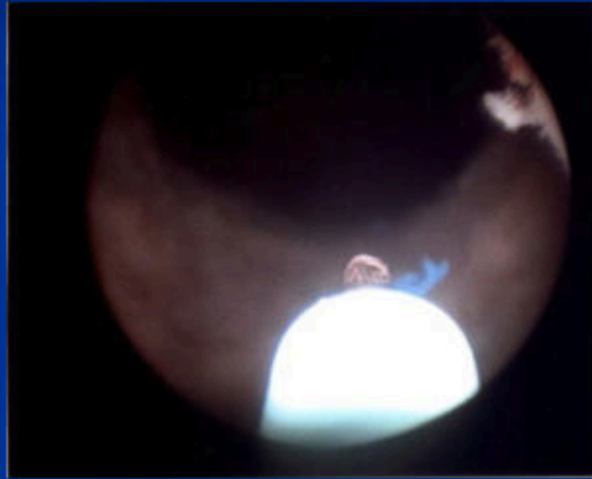
- Piranha – Suction Pump
- Power Control Generator
- Secretion container
- Tissue trap receptacle with sieve
- Sterile tubing system
- „Piranha“ foot switch



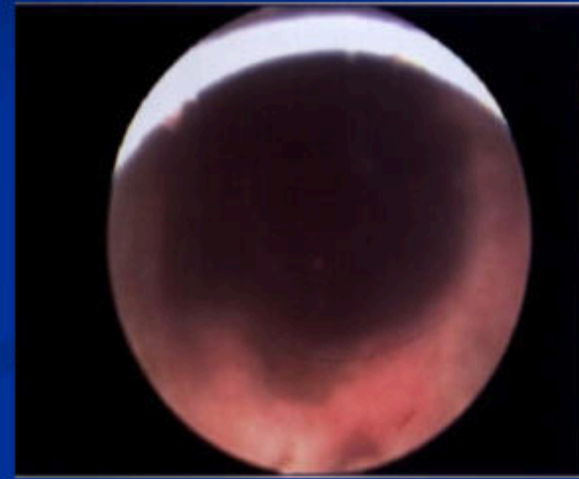
Holmium Pulse 120



Before HoLEP

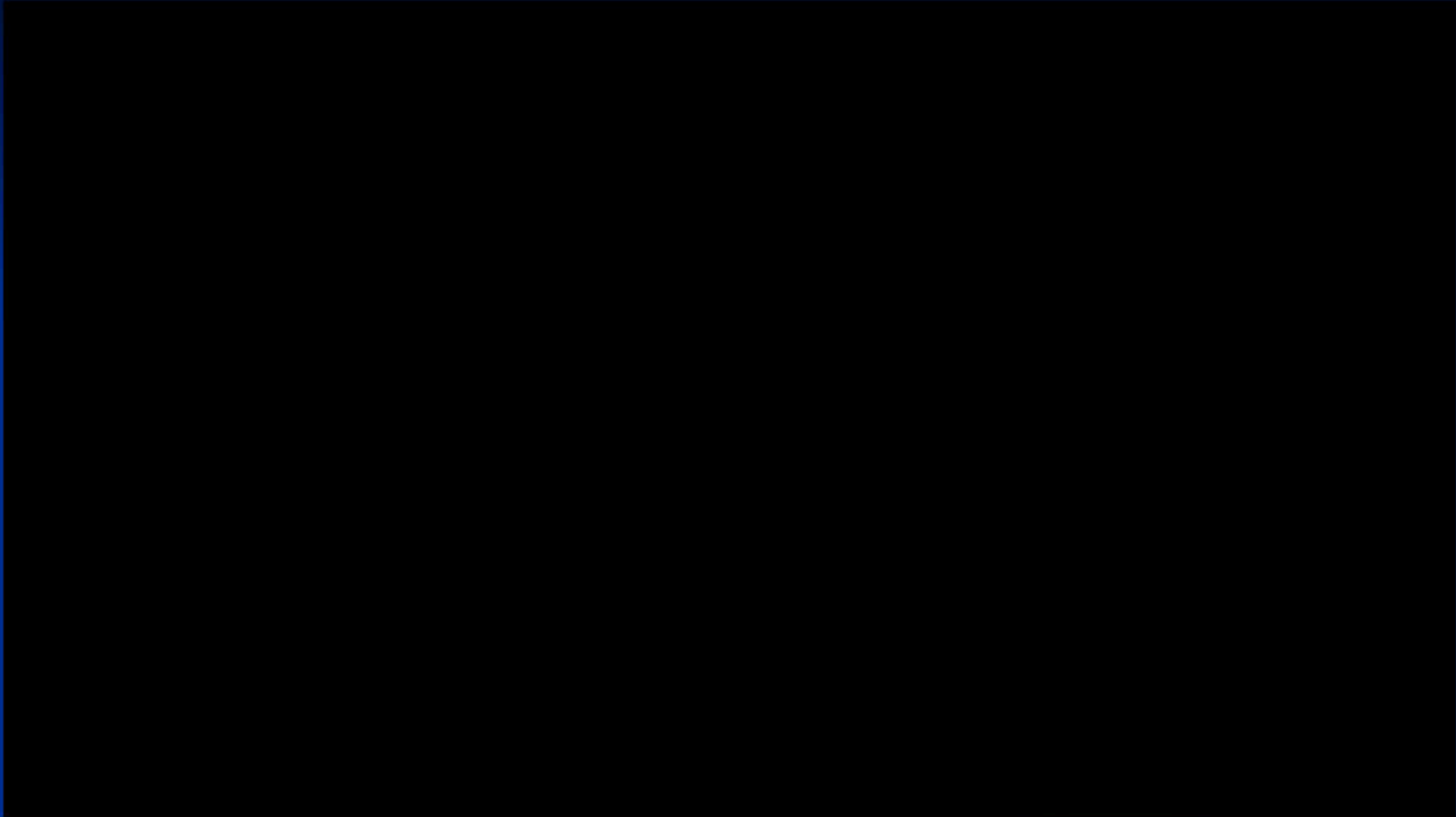


During HoLEP



After HoLEP





IN SUMMARY

- ✓ Successful program requires commitment on the part of the Surgeon & associated staff
- ✓ Support from the hospital administration
- ✓ A dedicated training program
- ✓ Appropriate high-quality equipment

THANK YOU

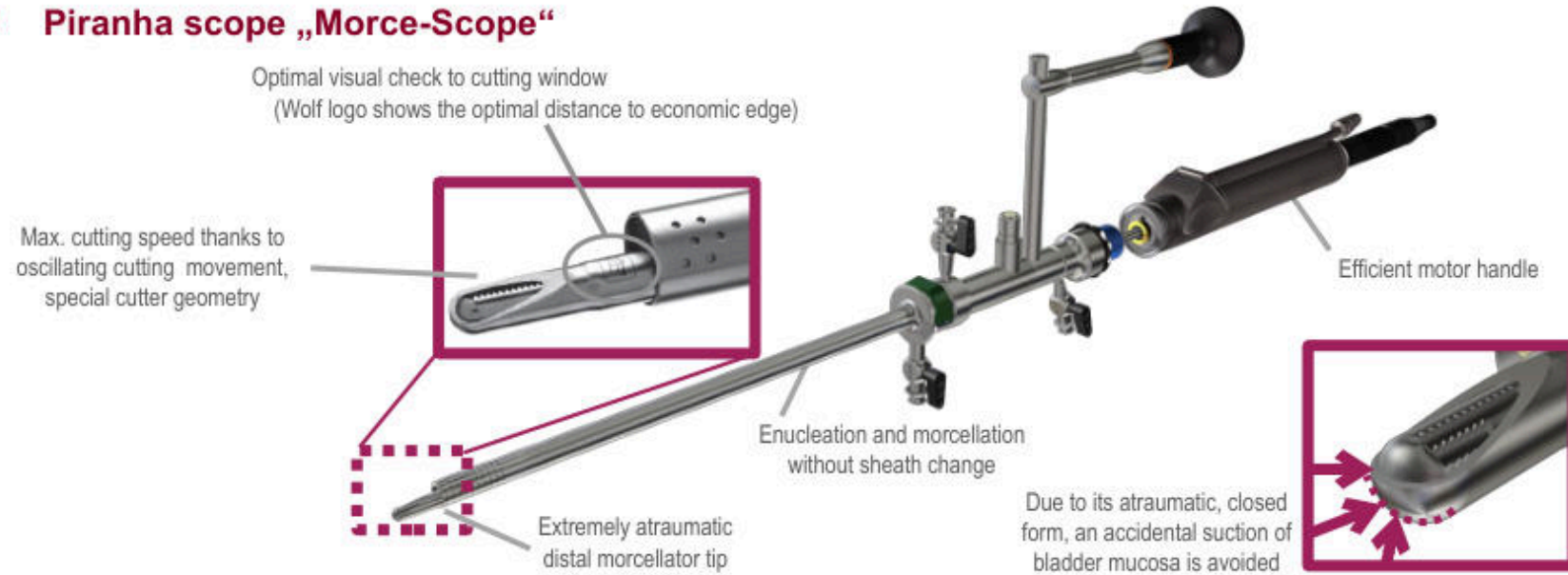
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Piranha Laser Enucleation System

The Piranha Morcellation System - Overview

■ Piranha scope „Morce-Scope“



Piranha Laser Enucleation System

How to use:



Watch the Piranha V-Max Blade devour a Specimen.





Piranha Laser Enucleation System