

# PULSED MASTER

NEW ERA OF UROLOGY MANAGEMENT



## THULIUM FIBER LASER SYSTEM



## Dual Pedal Foot Switch

Orange and blue pedals can be used to easily switch for example between "Power Fragmentation" and "Popcoming". An additional standby function allows the user to activate/deactivate the laser as needed.

## OFFERS VALUE THAT MATTERS

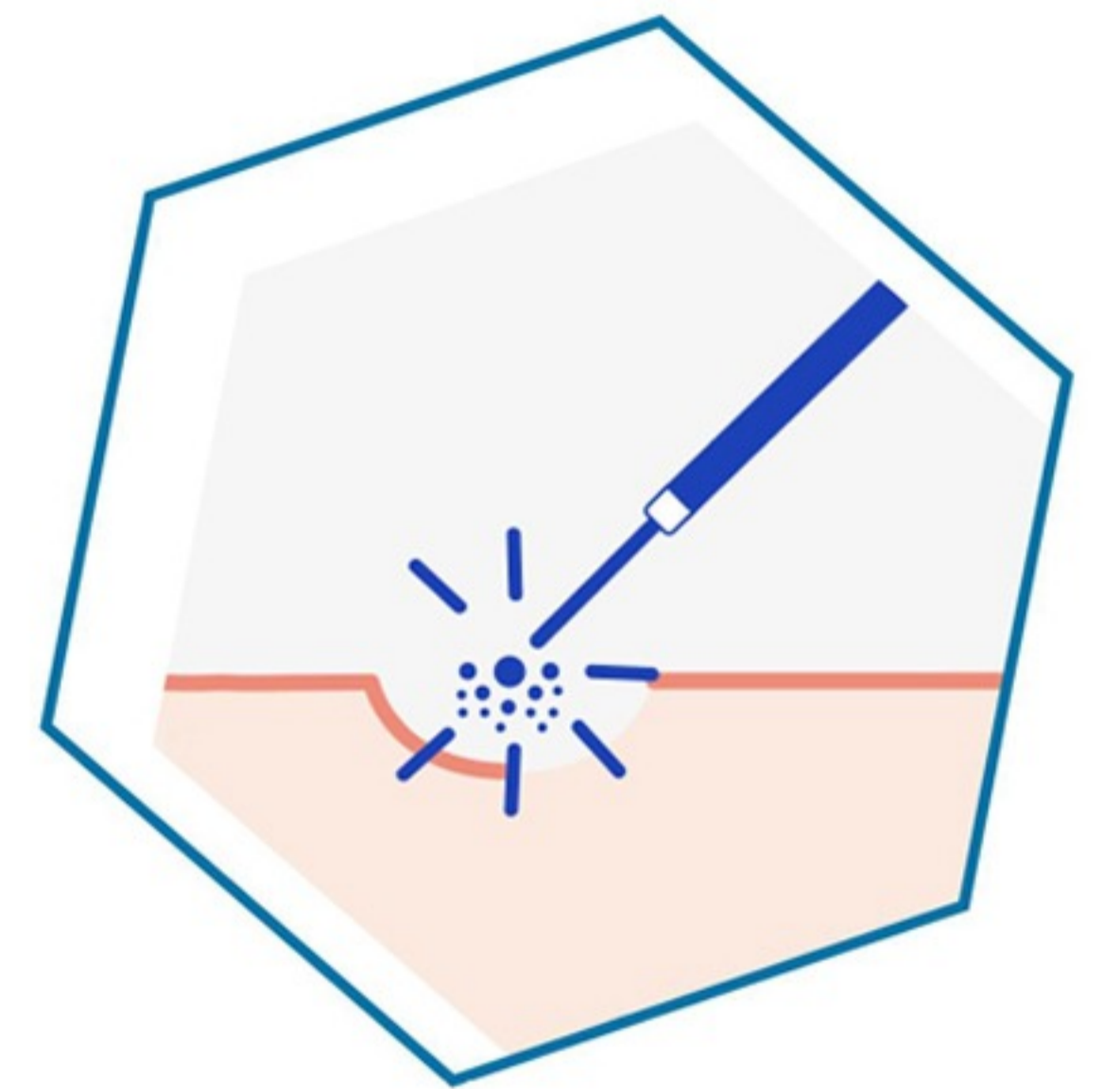
Air-conditioning, low-flow operation, and maintenance costs are greatly reduced compared to standard water management systems. Allowing them to achieve greater energy efficiency and use standard sockets without the need for special plumbing or infrastructure.

## LASER FIBER

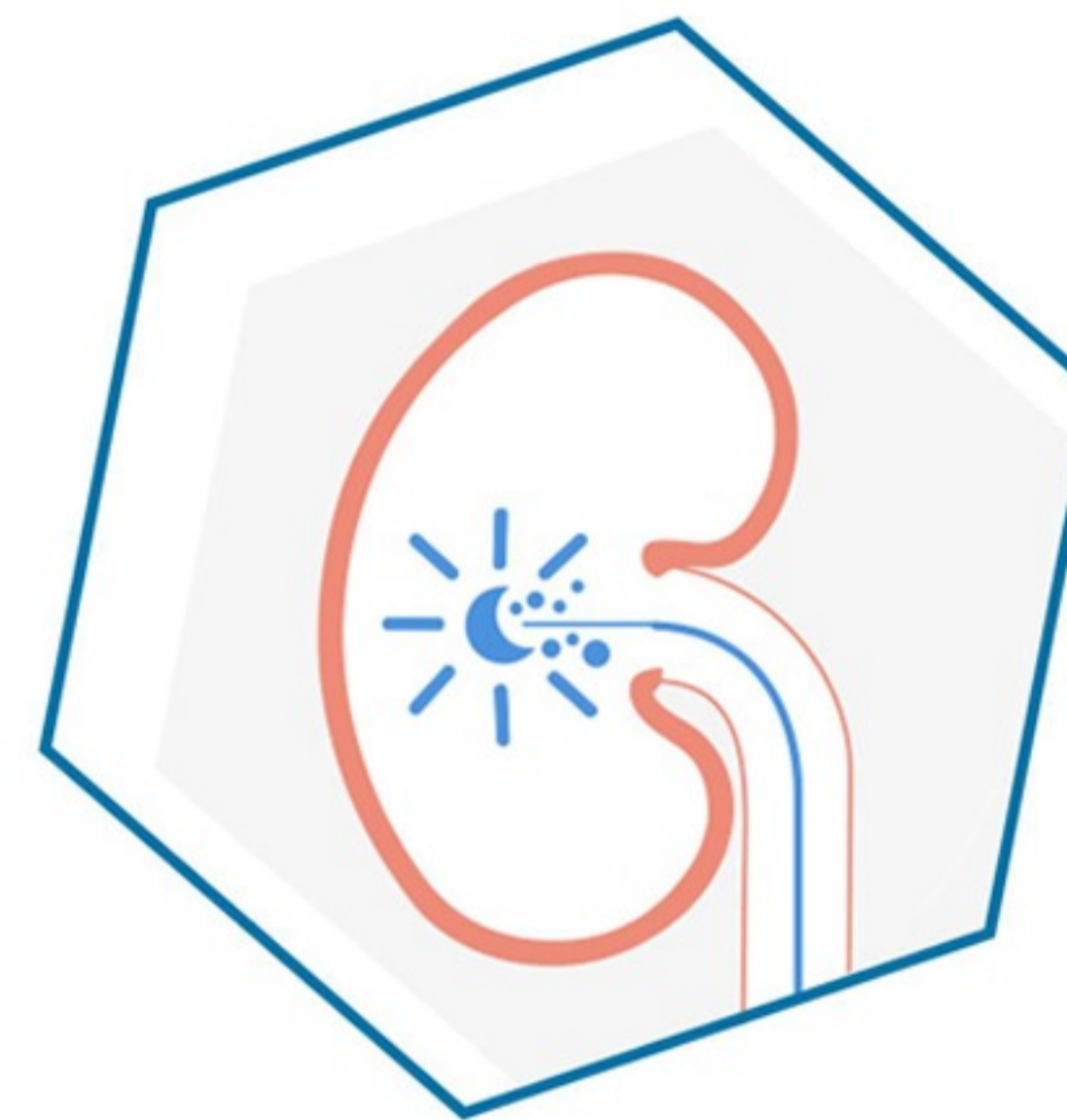
ARPhotonics thulium Laser System can be operated with a large range of fibers, depending on the application, flexibility and settings required.



SOFT TISSUES



LITHOTRIPSY



**FIBER CORE**

Delivers full energy to the target

**CLADDING**

Maintains radiation energy within the core

**JACKET**

Helps in recognizing fiber position and improves probe stiffness



### STANDARD FIBERS

For general use in stone and soft tissue treatments



### BALL TIP FIBERS

Strongly simplify the insertion in already bent scopes



### PERFORMANCE FIBERS

Designed to deliver great power even with small fibers



### GASTRO FIBERS

Specifically designed for the fragmentation of gallstones

# APPLICATIONS

## LASER LITHOTRIPSY

Calculi in the bladder, ureter or kidney are fragmented by rapid evaporation of residual water inside the stone upon absorption of the laser radiation. At the long pulse setting the ARPhotonics Thulium laser does not apply external kinetic force, thus preventing the calculi from being pushed further inside the ureter.

The ARPhotonics Flexible reusable laser fiber insertion sheath provides protection of the flexible scope against damage during insertion of the laser fiber. Please refer to our laser fiber brochure.

## TREATMENT OF BPH/PROSTATE

ARPhotonics thulium laser offer different treatment modalities for BPH. Depending on the surgical situation and the delivery system used the adenoma may be resected, enucleated (HOLEP) or ablated (HoLAP). All treatment modalities benefit from the excellent haemostatic properties of the ARPhotonics thulium laser which is provided by the long pulse duration in the tissue mode. The patient benefits from the bloodless laser treatment, early catheter removal, immediate symptomatic improvement, better urinary flow and a shorter hospital stay. Resected tissue is available for subsequent biopsy.

## OPENING OF STRICTURES

Strictures in the ureter and the urethra are easily opened-virtually without any bleeding

## TREATMENT OF BLADDER TUMOURS

Tumer Warwick incisions are quick and easy. Excellent vision is provided during the entirely bloodless procedure.

## BLADDER NECK INCISIONS

The low penetration of the ARPhotonics thulium laser makes it the ideal instrument for the treatment of bladder tumours. A special aiming beam setting allows the usage together with photo-dynamic-diagnosis under blue light illumination.

## ABLATION OF CONDYLOMATA

Condyломata are precisely ablated by the ARPhotonics thulium laser. The superficial tissue effect excises the tissue to the desired depth providing excellent haemostasis. Shallow necrosis enables immediate healing.

## UROLOGY

Laser lithotripsy  
HOLEP HOLAP  
Opening of strictures  
Excision of bladder tumours  
Condyломata

## SPINE

Minimally invasive spine surgery (MISS)  
Foraminoplasty  
Discectomy PLDD

## ENT

Endonasal surgery  
Larynx surgery Ablation of nasal and laryngeal polyps

## SPINAL SURGERY

ARPhotonics thulium laser offers a variety of treatment options for cervical and lower back pain patients. The ARPhotonics thulium laser ablates soft tissue such as disk material and hard tissue such as bone and osteophytes in Laser Foraminoplasty. In Laser Discectomy it removes residual nucleus pulposus material in preparation for stabilisations and fusions. The thermal load to the surrounding tissue is controlled by the shallow penetration of the Thulium laser radiation and the adjustable pulse duration.

## ENT

Stenosis of the nose is treated by trimming of turbinates and the nasal septum, Nasal and laryngeal polyps can easily be removed. All of these procedures can be performed as outpatient treatments. Due to the narrow zone of necrosis, postoperative pain is significantly reduced compared to other laser techniques like Nd:YAG and Diode lasers and conventional procedures.



Air-Cooling System



Lower Noise



Reduced Cost



Standard Plug



High Performance



# 1/8

Competing With  
High-Powered Laser Systems

## TECHNICAL DATA

Average power	Up to 35 WATTS	Up to 60 WATTS
Repetition rate	1 Hz-100 Hz	1 Hz-2500 Hz
Energy per pulse	0.02 J-4 J	0.02 J-6J
Wavelength	1,9 nm	1,9 um
Pulse Duration	200µs-50ms	
Laser Type	Thulium Fiber Laser	
Beam delivery	Wide range of flexible silica fibers	
Aiming beam	532 nm (adjustable <5 mW) -Class 3R	
Fiber recognition	RFID System	
Activation	Double footswitch	
Cooling	Air cooling system	
Electrical requirements	100-240 Vac; 50/60 Hz: 1000VA	
Weight	30 kg	40 kg



### CONTACT US

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## DISTRIBUTOR

