



# ADVANCED SURGICAL HOLMIUM LASER



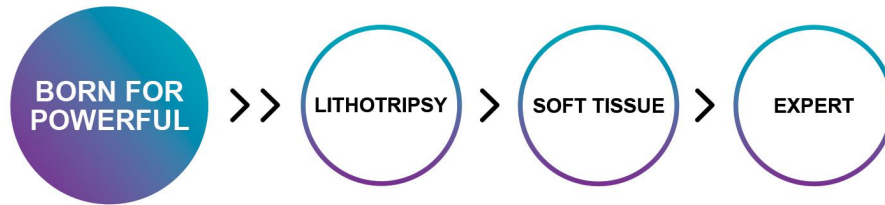
## Dual Pedal Foot Switch

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.

## USES

ARPhotonics HP Series holmium laser system is the ideal solution for stone and BPH treatment in urology as well as other interventions across a range of specialties:

- Urology
- Arthroscopy
- Dermatology
- Thoracic Surgery
- Gynecology
- Gastroenterology
- General Surgery
- Orthopedics
- Oral Surgery
- ENT
- Vascular Surgery
- Plastic Surgery



## LASER FIBER

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



### 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 Holmium 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 Holmium lasers 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 Holmium 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

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

## BLADDER NECK INCISIONS

The low penetration of the ARPhotonics Holmium 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

Condylo mata are precisely ablated by the ARPhotonics Holmium 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  
Condylo mata

## SPINE

Minimally invasive spine surgery (MISS)  
Foraminoplasty  
Discectomy PLDD

## ENT

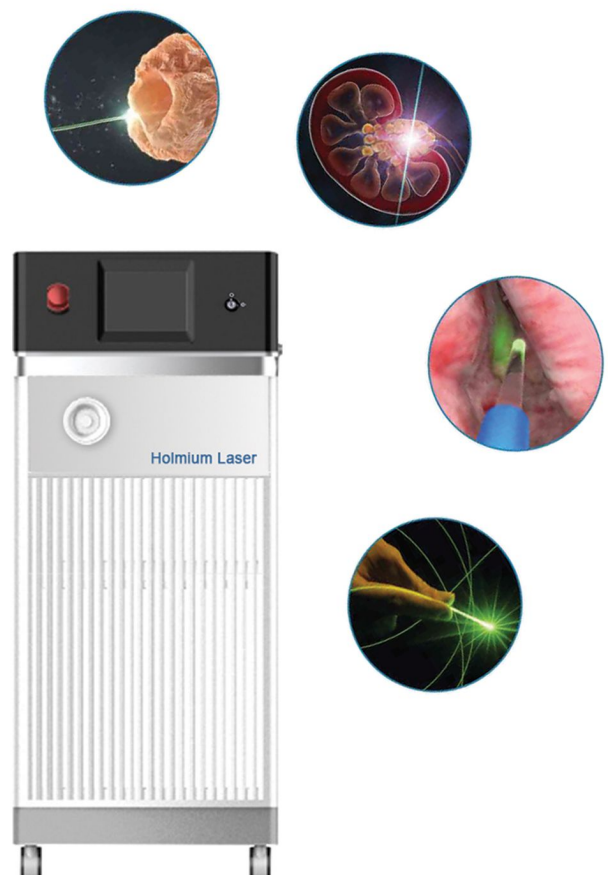
Endonasal surgery  
Larynx surgery Ablation of nasal and laryngeal polyps

## SPINAL SURGERY

ARPhotonics Holmium laser offers a variety of treatment options for cervical and lower back pain patients. The ARPhotonics Holmium 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 Holmium 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.



# POWER

- Power : max. 40 Watts
- Power : max. 60 Watts
- Power : max. 80 Watts
- Power : max. 100 Watts
- Power : max. 120 Watts
- Power : max. 160 Watts

# TECHNICAL DATA

Output Power (Max.)	40 Watts	60 Watts	80 Watts	100 Watts	120 Watts	160 Watts
Pulse Frequency	5-20 Hz	5-40 Hz	5-40 Hz	2-80 Hz	2-100 Hz	2-120 Hz
Pulse Energy	0.5-4.0 J	0.1-4.0 J	0.1-4.5 J	0.1-6.0 J	0.1-7.0 J	0.1-8.0 J
Laser Type	Holmium laser					
Wavelength	2.1µm					
Pulse Duration	300-600µs					
Aiming Beam	Green 532nm,<1mW,can be fine-tuned					
Cooling System	Internal cooling system					
Fibers	Reusable 200µm,275µm,365µm,550µm,800µm, 1000µm					
Main Supply	AC 220V-240V/50Hz-60Hz,single phase					
Dimensions (wxdxh)	89cm*45cm*90cm	89cm*45cm*90cm	89cm*45cm*90cm	89cm*45cm*90cm	89cm*45cm*90cm	89cm*45cm*90cm
Weight	110kg	135kg	150kg	160kg	160kg	160kg



**Singapore**  
 60 Paya Lebar Road #11-53  
 Paya Lebar Square Singapore 409051

**Canada**  
 Sandell Industrial Park 12827-12837 76  
 AVE Surrey Bc V

**USA**  
 4425 Iran St Denver CO 80249 USA

**DISTRIBUTOR**

