

Advanced

Surgical Holmium Laser



Power Shining in Extremely Compact Body



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 ARPhotoniccs Holmium laser does not apply external kinetic force, thus preventing the calculi from being pushed further inside the ureter.

The ARPhotoniccs 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

ARPhotoniccs Holmium lasers offer different treatment mo dalities 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 ARPhotoniccs 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 im provement, better urinary flow and a shorter hospital stay. Res ected 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 ARPhotoniccs 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

Condylomata are precisely ablated by the ARPhotoniccs 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
Condylomata

SPINE

Minimally invasive spine surgery (MISS) Foraminoplasty Discectomy PLDD

ENT

Endonasal surgery
Larynx surgery Ablation of nasal and laryngeal polyps

SPINAL SURGERY

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

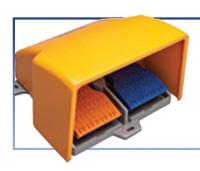


AR Photoniccs Portable Series

40 Watts Holmium: YAG For Lithotripsy

AR Photoniccs series surgical laser is a desktop device based on Holmium (Ho:YAG) laser with emission at 2100 nm wavelength. This wavelength is highly absorbed by water and biological tissue providing excellent cutting, ablation and hemostatic properties. The limited radiation penetration (0.3-0.4 mm) results in minimal damages to surrounding tissue. The Potent XP series surgical laser automatically adjusts the emission settings based on fiber diameter and selected mode.





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

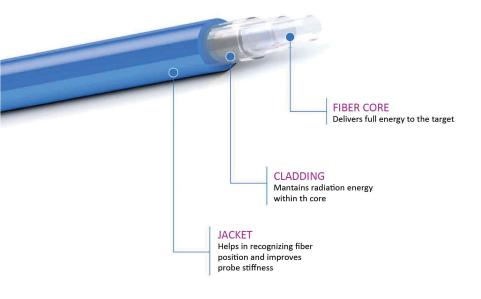
ARPhotoniccs Series holmium laser system is the ideal solution for stone and BPH treatment in urology as well as other interventions across a range of specialties:

- Urology
- Gynecology
- Oral Surgery
- Arthroscopy
- Gastroenterology
- ENT

- Dermatology
- General Surgery
- Vascular Surgery
- > Thoracic Surgery
- Orthopedics
- Plastic Surgery

Laser Fiber

ARPhotoniccs 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

Specifically designed for the fragmentation of gallstones



Technical Data

Output (max.)	30 Watts	40 Watts
Pulse frequency	25 Hz	30 Hz
Pulse energy	0.1-4.0 J	0.1-6.0 J
Laser type	Holmium laser (Ho:YAG)	
Wavelength	2.1μm	
Pulse duration	50~1500μs (Long, Medium and Short pulse modes)	
Aiming beam, green	532nm,<1mW,can be fine-tuned	
Cooling system	Internal cooling system	
Main supply	AC 110V+10%,220V±22V / 50Hz+1Hz	
Fiber Length	3M	
Weight	14 Kg	
Holmium laser fiber	200μm,275μm,365μm,550μm,800μm, 1000μm	
Numerical aperture (NA)	0,12 0,02 0,22 ± 0,02 0,28 ± 0,02 or customised	
Operating temperature	-190° to +350°C	
Core diameter	Available from 25 μm to 2000 μm	
Standard core / cladding ratios	1: 1,041 1,06 1: 1,11: 1,15 1: 1,2 1: 1,4 or customised	
Standard prooftest	100 kpsi (nylon, ETFE, acrylate cladding) 70 kpsi (polyimide cladding)	
Minimum bending radius	50 x cladding diameter (short-term mechanical stress) 150 x cladding diameter (during use with high laser power)	

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