

PERFORMANCE AT FIRST



SURGICAL HOLMIUM LASER

The HZ Series



• New Summit of Medical Tech



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Medical Holmium Laser



Steady

"Dual-insurance" Laser

Two cavities work design; two beams of laser can work together or separately. When an error occurs in one beam output, the other one assures the operation going smoothly.

Unique Sealing Techniques Patent

Built-in well-sealed cavity: it is anti-shock, anti-humidity, anti-dust, anti-interference of electromagnetic wave, it ensures long-term steadiness of laser output and lifespan of laser cavity.

Imported Core Parts (From USA and Germany)

Through EMC test, imported core accessories enhance holmium laser output stability and efficiency of transformation, which provides reliable security assurance while assuring high power, super stability and long-term use.

Quiet

Sound-mute Environment friendly Water Cooling System, high efficiency, long time use

Super silence design with international advanced environment-friendly refrigerant, and quick robust refrigeration technology speed up the refrigeration velocity, assure cooling system long-term steady running, without break, and guarantee stable long time laser output.

Accurate

0.1J step-length adjustment, wide-range alternative Energy feedback of loop control system

Dynamic auto-monitor output power, duly compensate power change which is influenced by water temperature and optical components in order to steady output power at setting index.

Efficient

Highest monopulse energy can achieve 4.5J and highest frequency is 40HZ, which shortens operation time and increases surgery efficiency.



Convenient

Color touch LCD with big screen, easy to manipulate

Clear direction light, blue and adjustable

Varieties of optical fiber specifications: 200 μ m, 275 μ m, 365 μ m, 550 μ m, 800 μ m, 1000 μ m

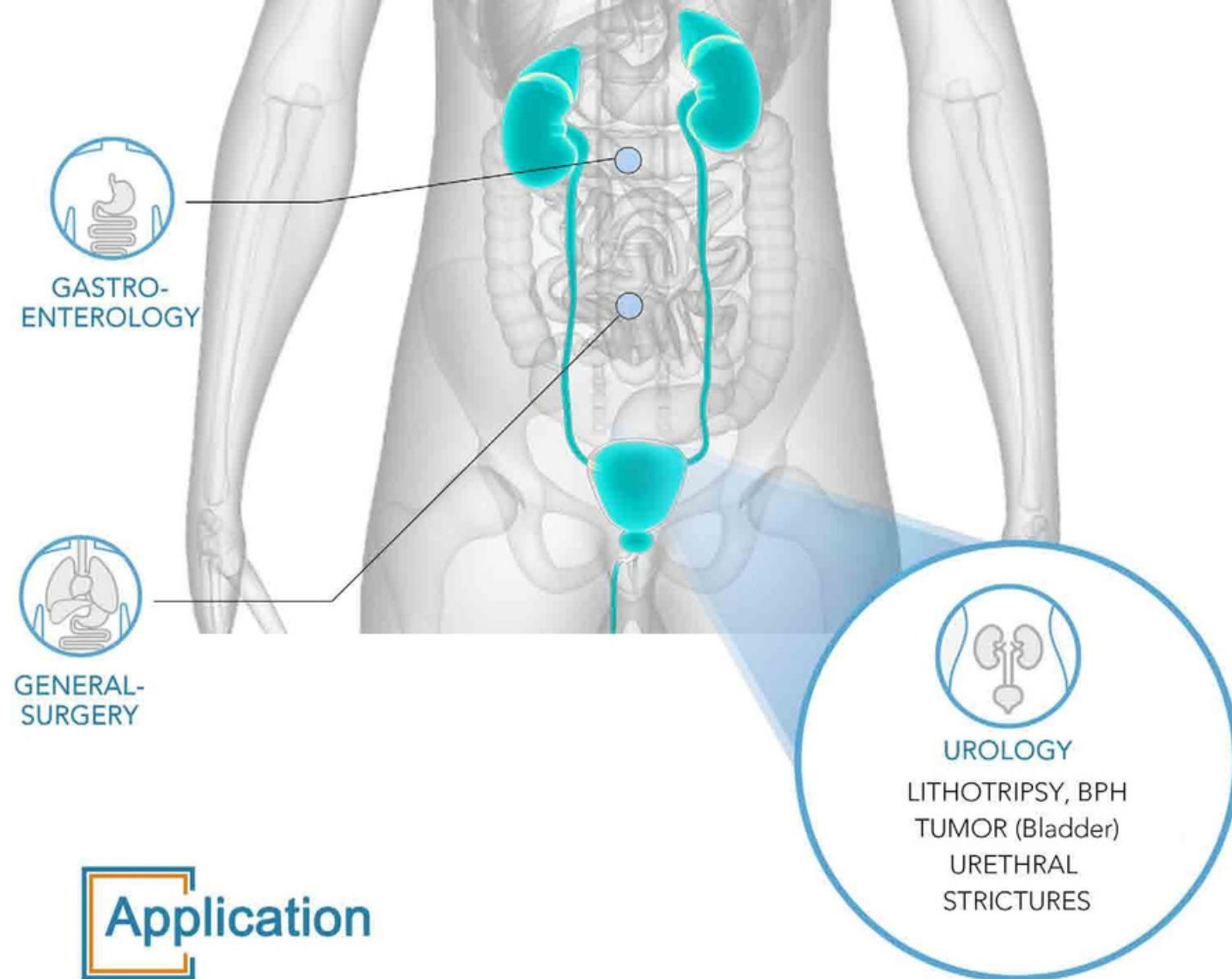
Intellectualized memory function, automatically resumes default setting, no need to set regularly.



Technical Data

Output Power (Max.)	40 Watts	60 Watts	80 Watts	90 Watts
Pulse Frequency	5-20 Hz	5-40 Hz	5-40 Hz	5-40 Hz
Pulse Energy	0.5-4.0 J	0.1-4.0 J	0.1-4.5 J	0.1-4.5 J
Laser Type	Holmium laser (Ho:YAG)			
Wavelength	2.1 μ m			
Pulse Duration	300~600 μ s			
Aiming Beam	Green 532nm, <1mW, can be fine-tuned			
Cooling System	Internal cooling system			
Fibers	Reusable 200 μ m, 275 μ m, 365 μ m, 550 μ m, 800 μ m, 1000 μ m			
Main Supply	AC 220V-240V/50Hz-60Hz, single phase			
Dimensions (w x d x h)	89cm*45cm*90cm	89cm*45cm*90cm	89cm*45cm*105cm	89cm*45cm*105cm
Weight	110kg	135kg	150kg	160kg





Application

HZ Series Holmium Laser system can be used to perform incision, excision, resection ablation, vaporization, coagulation and hemostasis of soft tissue and in lithotripsy of stones in various medical specialties, including:

UROLOGY

Prostate enucleation (BPH treatment) with HoLEP
Urinary lithotripsy | Urethrotomy

GASTROENTEROLOGY

Gastric bezoar, Early digestive system cancer
Esophageal stenosis, Upper gastrointestinal polyps

GENERAL SURGERY

Common bile duct stones

ENT

Sialolithiasis



Ordering Information

Holmium Laser	
Ships with Foot Pedal / Switch and Power Cable	Each
Laser Fibers	
Potent Reusable Fiber	Two
Accessories	
Fiber Stripper / Peeler - Adjustable	Each
Diamond Fiber Cutter	Each
Laser Glasses	Each
Foot Pedal / Switch	Each
Power Cables	
Laser Power Cable, Configuration 1 EU Countries and Indonesia, Turkey, Egypt, Tunisia, Peru, Russia	
Laser Power Cable, Configuration 2 United States, Columbia, Taiwan	
Laser Power Cable, Configuration 3 Brazil	
Laser Power Cable, Configuration 4 (309 plug) Switzerland, Italy, France	
Laser Power Cable, Configuration 5 Denmark	
Laser Power Cable, Configuration 6 India, South Africa, Malaysia, Pakistan, Singapore	
Laser Power Cable, Configuration 7 Israel, Palestine	
Laser Power Cable, Configuration 8 (Bare cord - no plug end) UK, Japan, Australia, Other	

Laser Fibers

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



Technical Data

Wavelength / spectral range	Optran ® UV: 190 – 1200 nm Optran ® WF: 300 – 2400 nm
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 : 1,04 1 : 1,06 1 : 1,1 1 : 1,15 1 : 1,2 1 : 1,25 1 : 1,4 or customised
OH content	Optran ® UV: high (> 700 ppm) Optran ® WF: low (< 1 ppm) Fibers with OH contents < 0,25 ppm and < 0,1 ppm are available upon request
Standard proof test	100 kpsi (nylon, ETFE, acrylate cladding) 70 kpsi (polyimide cladding)
Minimum bending radius	50 × cladding diameter (short-term mechanical stress) 150 × cladding diameter (during use with high laser power)



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