

INSPIRED BY

LIGHT

MultiPulse Ho

**HOLMIUM:YAG LASER
FAST AND SAFE WORKSTATION.
THE GOLD STANDARD
FOR LITHOTRIPSY.**



Main Application Fields

UROLOGY | GENERAL SURGERY



Manufactured by
Asclepion Laser Technologies GmbH

JENA SURGICAL
LASER AT YOUR SIDE

MultiPulse Ho

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The **MultiPulse Ho** is a **surgical holmium laser** dedicated to **endourology** with a max power of **35 W**. The **MultiPulse Ho** is the go-to device for **endoscopic laser lithotripsy** for the treatment of urinary tract stones and common bile duct stones.

UROLOGY - applications

Urinary lithotripsy | Urethrotomy

Laser Lithotripsy

The **MultiPulse Ho** is a perfect lithotripter optimized for pulverization and fragmentation of ureteral, bladder and kidney stones. Effective for the treatment of various types and chemical stones composition, it represents the optimal solution, even for those particularly difficult to reach. Moreover, its **higher power of 35 W** allows to manage large calculi with **efficient and faster** surgeries.

The **pulsed laser emission**, with a **2,100 nm wavelength** highly absorbed by water, producing a cavitation bubble which will implode generating a shock wave resulting in the pulverization or fragmentation of the stone without invasive surgical procedures.

Lithotripsy with the **MultiPulse Ho** is an excellent alternative to the traditional ESWL (Extracorporeal Shockwave Lithotripsy), as it involves less risk of complications and a higher degree of efficiency and safety, regardless of the stone type to be treated. Compared to other surgical procedures, it features the undeniable advantage of minimizing bleeding during surgery.

The wide range of multiple combinations of frequency and energy enables the urologist to choose the right setting for any treatment. High energy and low frequency are used for fast and rough fragmentation while low energy and high frequency settings allows stones dusting in so small particles that can be expelled with minimal discomfort to the patient.



USER FRIENDLY



MultiPulse Ho

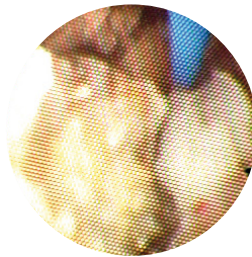
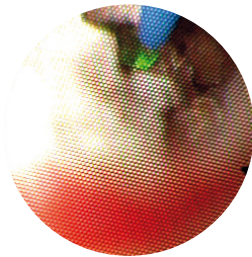
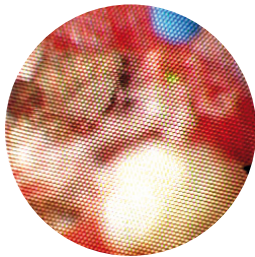
Advantages for the surgeon

- Specific for ureteral and kidney stones fragmentation/pulverization
- Effective for various types of stones
- High success rate
- Low percentage of complications
- High peak power and wide power range
- Short learning curve
- Easy to install and operate

Advantages for the patient

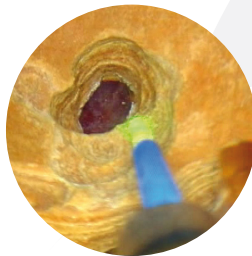
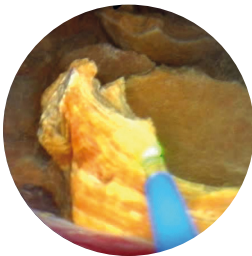
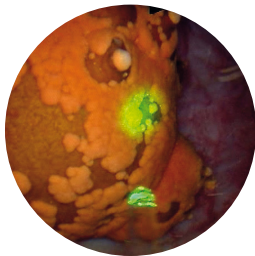
- Minimally invasive surgery
- Immediate relief from symptoms and short recovery time
- Minimal side effects

Clinical Cases



Retrograde intrarenal surgery for staghorn calculus occurring in the renal pelvis, with branches extending into the medium and inferior calyces. RIRS was performed with flexible ureterorenoscopy and using **MultiPulse Ho** laser with 200 μm fiber.

[Courtesy of Prof. M. S. Minervini, M.D. - Head of Urological Division - Hospital of Sondrio, Italy]



Bladder stone treatment (pulverization and fragmentation) with **MultiPulse Ho**.

[Courtesy of S. Piesche, MD - Clinic of Urology and Urological Oncology, Sana Klinikum Hof - Germany]

Urethral Strictures

Treatment of urethral stricture, resulting from spongiofibrosis due to different causes such as inflammation or trauma, can now be quickly and effectively treated with holmium laser urethrotomy using the **MultiPulse Ho**. This minimally invasive and safe procedure is suitable for short urethral strictures as well as for more significant strictures or for the treatment of urethral atresia. The laser ablates damaged tissue with a clean cut, free of bleeding and without penetrating too deeply. This reduces the risk of lateral thermal damage, complications, recurrences or the formation of post-surgery fibrosis, resulting in complete restoration of normal urinary flow.

MultiPulse Ho	
Laser Source	Ho:YAG
Wavelength	2,100 nm
Emission Mode	Pulsed Wave (pw)
Power	up to 35 W
Energy/Pulse	0.2 - 8.0 J
Repetition Rate	3 - 30 Hz
Pulse Duration	95 - 1900 µs
Operating Temperature Range	10° - 30 °C
Rel. Humidity	30 % - 75 % (no condensation)
Cooling	Internal water cooling
Beam Delivery	Wide Range of Flexible Optical Fiber
Aiming Beam	Laser Diode @ 532 nm <5 mW, adjustable
Control Panel	7" LCD TFT touchscreen display
Accessories	Fiber handpieces and diverse cannulas Bare fibers (reusable and single use) available in following diameters: 200, 272, 365, 400, 550, 600, 800, 1000 µm
Electrical Requirements	115 VAC, 50/60 Hz, 16 A 230 VAC, 50 Hz, 10 A
Dimensions and Weight	50 (W) x 40 (D) x 54 (H) cm - 53 kg

MultiPulse Ho



Find more info about
MultiPulse Ho



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JenaSurgical is the brand of the surgical business unit of Asclepion Laser Technologies.

JENA SURGICAL
LASER AT YOUR SIDE

Find out how surgical applications are faster, more performing and safer with our laser devices.

Applications

UROLOGY

Urinary lithotripsy | Urethrotomy

GENERAL SURGERY

Common bile duct stones



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