

POWER

IN YOUR HANDS

MultiPulse HoPLUS

HOLMIUM:YAG LASER
WHEN POWERFUL VERSATILITY
INTEGRATES UNMATCHED
PRECISION.



Main Application Fields

UROLOGY | GENERAL SURGERY | ENT

JENA SURGICAL
LASER AT YOUR SIDE

MultiPulse HoPLUS

POWER IN YOUR HANDS

MultiPulse HoPLUS is a high power holmium laser device characterized by great flexibility and efficiency, which is a must in centers of excellence in **Endourology**.

Ideal for both **surgical treatment** of **benign prostatic hypertrophy (BPH)** and endoscopic treatments of lithotripsy, it is hardly recommended for long-duration procedures requiring high power thanks to its laser source reaching **140 W**.

MultiPulse HoPLUS ensures high surgical performance thanks to high levels of energy and pulse repetition rate, guaranteeing reduced operating time and cutting procedures effective and delicate at the same time, with an excellent hemostatic effect.

UROLOGY - applications

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

Benign Prostatic Hyperplasia

The **MultiPulse HoPLUS** enables performance of both **HoLAP** ablation and the more advanced **HoLEP enucleation procedure**, as a minimally invasive alternative to the traditional techniques of **prostatectomy** such as transurethral resection (**TURP**) and open surgery. HoLEP, thanks to the surgical technique progress together with the presence of the integrated mechanical morcellator (optional), makes it possible to reduce operating time and **treat prostates of any size**.

The **MultiPulse HoPLUS** does **not produce carbonization** or necrosis, leaving the surgical field free and clearly visible to the surgeon. The micro-pulsed emission, together with the wavelength of **2100 nm** which is well absorbed by water, produces a dual photo-thermal and photo-mechanical effect which translates to effective **vaporization, good hemostasis** and reduction in thermal effects and damage to surrounding tissue.



PERFORMANCES



MultiPulse HoPLUS

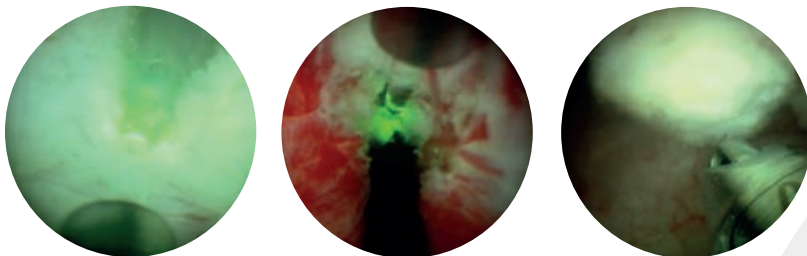
Advantages for the surgeon

- High power laser
- High peak power (with a wide range of power to get maximum operating efficiency)
- High pulse repetition rate
- Fast vaporization and cutting with excellent hemostasis
- Ability to always perform the histopathological exam of enucleated tissue samples. It is possible to request the integrated morcellator as an optional accessory (CE-Mark Pending)
- High versatility in endourology
- Easy to install and operate

Advantages for the patient

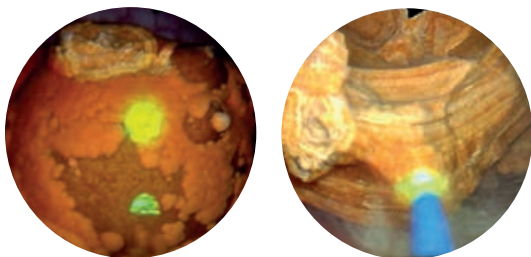
- Minimally invasive surgery
- Low probability of bleeding: recommended also for patients treated with anticoagulants
- Low rate of side effects
- Shorter catheter application time in the post-operative phase
- Shorter hospital stay and recovery time
- Low rate of recurrences
- Immediate relief of symptoms

Clinical Cases



Different steps of HoLEP procedure for the treatment of benign prostatic hypertrophy (BPH), performed using the **MultiPulse HoPLUS** laser system. In the last pictures it is shown the morcellator action.

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



Bladder stone treatment (pulverization and fragmentation) with Jena Surgical **Holmium Laser**.

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

MultiPulse HoPLUS is undoubtedly the most versatile laser system for Urology.

It offers a wide set of applications ranging from the strictures treatment (urethrotomy), to surgical excision of tumours in the urethra, bladder, ureter and kidney as well as being universally recognized as the gold standard in **endoscopic lithotripsy** for the stones **fragmentation** and **pulverization**, regardless of their composition and anatomical location (also for common bile duct stones and sialolithiasis).

MultiPulse HoPLUS	
Laser Source	Ho:YAG
Wavelength	2,100 nm
Emission Mode	Pulsed Wave (PW)
Power	Up to 140 W
Repetition Rate	5-100 Hz
Pulse Duration	200-1700 µs
Operating Temperature Range	18° - 28° C
Rel. Humidity	Max 70% (not condensing)
Cooling	Internal water cooling
Beam Delivery	Wide Range of Flexible Optica Fiber
Aiming Beam	Laser Diode @532 nm <5 mW, adjustable
Control Panel	10.1" LCD display 16:9
Integrated Morcellation Module (Optional)	Integrated auxiliary morcellator Ergonomic handpiece Speed range: 500-2500 rpm Vacuum Pump: Rotary pump Blades: exchangeable <i>[CE-Mark Pending]</i>
Morcellator Accessories	Tube set, morcellation handpiece with blades
Device Accessories	Fiber Handpieces and Cannulas Bare Fibers (reusable and single use) HO 200; HO 272; HO 365; HO 400; HO 550; HO 600; HO 800; HO 1000
Electrical Requirements	400 VAC, 50 Hz, <32 A, 3-phases 230 VAC, 50 Hz, <50 A, 1- phase
Dimensions and Weight	116 (H) x 105(D) x 46 (W) cm - 300 kg

MultiPulse HoPLUS

Find more info about
MultiPulse HoPLUS



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LASER AT YOUR SIDE

Ideal for long-duration procedures requiring high power including BPH treatment and bladder stone fragmentation.

Applications

UROLOGY

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

GENERAL SURGERY

Common bile duct stones

ENT

Sialolithiasis



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