

HOLMIUM:YAG LASER
WHEN POWERFUL VERSATILITY
INTEGRATES UNMATCHED
PRECISION.



Main Application Fields
UROLOGY | GENERAL SURGERY | ENT





MultiPulse HoPLUS



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 hyperplasia (BPH)** and endoscopic treatments for 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 | Urinary lithotripsy | Urethrotomy

Benign Prostatic Hyperplasia

The **MultiPulse HoPLUS** enables the enucleation of the prostate as a minimally invasive alternative to the traditional techniques of **prostatectomy** such as transurethral resection (**TURP**) and open surgery.

HoLEP, 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 holmium laser emits a wavelength of 2,100 nm, which is well absorbed in water, resulting in photothermal and photomechanical effects which lead to effective vaporization and good hemostasis within the tissue.







Advantages for the surgeon

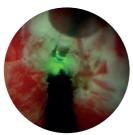
- · High power laser
- High peak power (with a wide range of power to get maximum operating efficiency)
- High pulse repetition rate
- Fast vaporization and cutting with excellent hemostasis
- Ability to always perform the histopathological exam of enucleated tissue samples. It is possible to request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

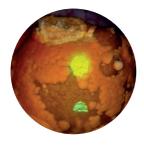


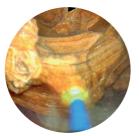




Different steps of HoLEP for the treatment of benign prostatic hyperplasia (BPH), performed using the **MultiPulse HoPLUS** laser system.

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





Bladder stone treatment (pulverization and fragmentation) with JenaSurgical **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 treatment of strictures (urethrotomy), bladder neck incision (BNI) as well as being universally recognized as the gold standard in **endoscopic lithotripsy** for stone **fragmentation** and **pulverization**, regardless of their composition and anatomical location (also for common bile duct stones and sialolithiasis).

Morcellation Module

Morcellation Module

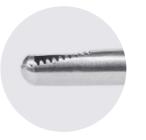
The MultiPulse HoPLUS laser system contains an integrated morcellation module, which allows to perform morcellation of enucleated adenoma within the bladder very quickly. Thanks to the peristaltic pump, the suction is highly efficient and additionally ensures a maximum of safety and protection against unintended bladder wall injuries.



Morcellator Details







The optimized cutting teeth geometry guarantees enough tissue for a histopathological examination.

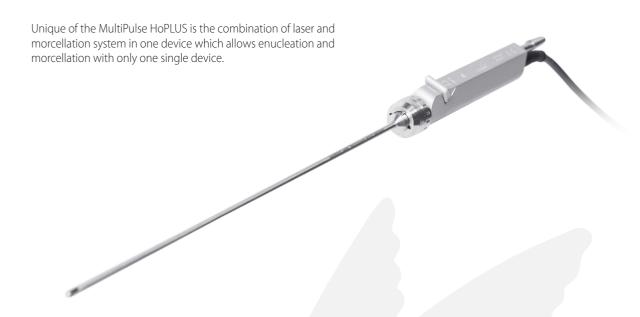








Morcellation Module



MultiPulse HoPLUS morcellation module	
Morcellator handpiece specifications	
Dimensions	30 x 250 mm (diameter x free length)
Rotation speed	500 – 4000 rpm
Oscillation frequency	0 or 2 – 5 Hz
Sterilization method	Steam sterilization
Morcellator blade specifications	
Dimensions	15 Fr x 350 mm (diameter x free length)
Aspiration pump	
Flow Rate	Adjustable
Morcellator Accessories	Tube set, morcellation handpiece with blades



Find more info about **MultiPulse HoPLUS**



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

Applications

UROLOGY

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

GENERAL SURGERY

Common bile duct stones

FNT

Sialolithiasis

