

DORNIER MEDILAS® H SOLVO® 35

**THE PULSE OF PERFORMANCE**  
TARGETED LASER STONE MANAGEMENT



## LEADING TECHNOLOGY

# DORNIER MEDILAS® H SOLVO® 35

Dornier Medilas H Solvo 35 is the newest generation stone laser that combines sophisticated and reliable technology with true usability – both resulting from Dornier’s decades of experience in holmium stone laser development. All you need for laser lithotripsy: you get it with the Medilas H Solvo 35.



## SUCCESSFUL STONE TREATMENT - STRAIGHT FORWARD AND FAST

Choose from several Application Modes to follow your strategy to eliminate the stone. Whether you want to dust or to fragment – there is no need to manually set parameters. Just pick an application mode – energy, frequency and temporal profile of laser emission is adjusted automatically to support your treatment strategy.

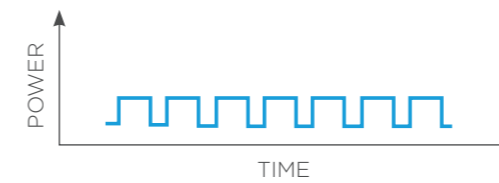
A dedicated Soft Tissue Mode is available with pulse duration and frequency optimized for cutting and coagulation.

Switch in-between Application Modes during treatment without setting the laser back to Standby status. And don’t waste time on chasing stones and fragments – the modified pulse shape of Dornier’s Advanced Mode gives you retropulsion control over mobile targets.

Laser type	Holmium (Ho:YAG), pulsed solid-state laser
Maximum output (W)	35
Pulse frequency (Hz)	3 - 25
Pulse energy (mJ)	200 - 3500
Weight (kg)	67

## DISCOVER THE DORNIER APPLICATION MODES FOR EFFECTIVE AND EFFICIENT STONE DESTRUCTION

### DORNIER DUSTING MODE



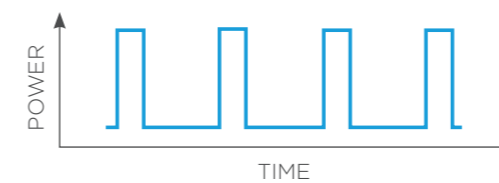
#### Standard Mode

Enables free choice of energy and frequency parameter combinations

#### Dusting Mode

- Destroys stones by creating dust particles that can pass naturally
- Ideal setting for first part of procedure - reduce stone mass without need to mechanically recover fragments

### DORNIER FRAGMENTING MODE



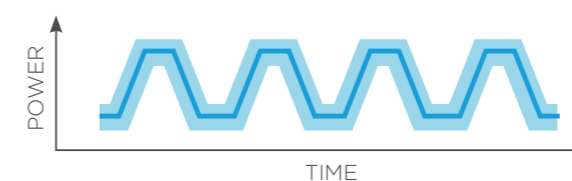
#### Fragmenting Mode

- Highest ablation rates
- For hard stones, large stones, or to efficiently eliminate small stones or remnants of stones reduced in mass by dusting

#### Single Pulse Mode

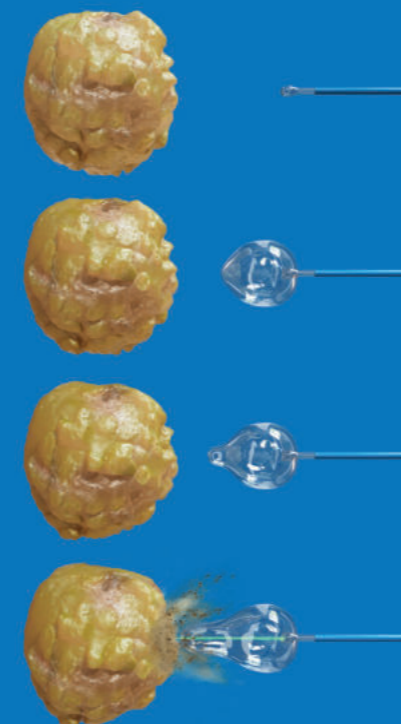
- Transmits single laser pulses
- Ideal for challenging situations where precision is essential

### DORNIER ADVANCED MODE



#### Advanced Mode

- Slow build-up of laser intensity within the pulse reduces retropulsion pressure on the calculus
- Increase precision and efficiency when treating mobile stones



## UNIQUE: DORNIER ADVANCED MODE™

Medilas H Solvo is the only holmium laser in its power class with a dedicated anti-retropulsion technology.

Medilas H Solvo 35 comes standard with Advanced Mode. No special fibers are required. Its efficiency benefit comes at no extra costs or logistical challenges.

“Our clinical study shows a 19 % reduction in overall operating time and an 84 % increase in laser efficiency by using Advanced Mode and Fragmenting Mode versus the Standard Mode.”

Frank Strittmatter, MD, Department of Urology, Ludwig-Maximilians-University, Munich, Germany

# OPTIMAL WORKFLOW EFFICIENCY

## So easy - effortless movement and set-up

One of the smallest and lightest lasers in its class, Medilas H Solvo 35 needs little space and is very convenient to set up and to put away after stone treatment. Large, smoothly rolling wheels and an ergonomic handle allow for easy movement of the device in-between rooms and within the operational theater.

A large storage compartment accessible from the top provides plenty of space for holding the foot switch or accessories like goggles – always close to hand and automatically transported together with the laser.



## Strikingly unobtrusive

Dornier's track record of low-noise Holmium lasers continues. To support a good work environment, Medilas H Solvo 35 is even quieter than its predecessor model.

## Wireless foot switch

- The foot switch of Medilas H Solvo 35 is wireless, for greater flexibility with no cable length to accommodate and for improved workplace safety.
- Two functional side pedals allow for hands-free laser operation by the surgeon independent of OR staff – change of laser status, Application Mode, energy and frequency setting – all can be done via the foot switch.



## Information at a glance – even straight ahead

The graphical user interface of the Medilas H Solvo 35 is the most clearly arranged of all holmium lasers you will find. It is limited to relevant information only. Step-by-step, clear instructions are given on the bottom status bar.

For improved ergonomics, the treatment settings can be displayed picture-in-picture on the endoscopy monitor or even on an wireless mobile display. An optional 4 axis swivel arm allows a convenient stable fixation directly on the patient table.

## Fast way to success

- Medilas H Solvo 35 requires no warm-up time – therefore it is fully operational as soon as you turn it on.
- Laser status, parameters and Application Modes can be selected via the touch screen display as well as via the foot switch.
- Change of laser parameters or Application Modes can be done when the laser is in the Ready status. No switch to Standby status is required, avoiding annoying interruptions of the laser treatment.
- Five custom settings can be saved as favorites and swiftly retrieved.



# DORNIER HOLMIUM FIBERS

## EFFICIENT AND RELIABLE PERFORMANCE

### Safety and Efficiency

- All fibers for Dornier Medilas H Solvo 35 have been developed by Dornier MedTech to perfectly complement our laser system. Perfect coupling of the laser beam into the fiber core **minimizes transmission loss**.
- All Dornier light guides, even thin speciality fibers, **support maximum energy settings** of Medilas H Solvo 35.

### Use in flexible endoscopy

- Our 272  $\mu\text{m}$  fiber core light guides are especially flexible and enable full light transmission even in a deflected state.
- A special 272  $\mu\text{m}$  fiber with extra-thin cladding combines the best of two design properties: a slim outer diameter allowing the same **high flow** rates as a 200  $\mu\text{m}$  core fiber, and a large enough fiber core to tolerate **high-energy pulse settings** (up to 35 Watts).
- **Dornier GentleFlex** fiber enables effortless, time-saving navigation: the ball-shaped fiber tip allows smooth introduction of the laser fiber to reach difficult to access areas even through a deflected scope. The **non-traumatic fiber tip design** supports reduction of equipment cost and downtime related to endoscope repair.

### Economic solutions

- A quartz ferrule integrated into the fiber connector **protects optical components** of the laser to prevent system downtimes. A service-prone blast shield to cover optical components is not required.
- Dornier fibers are subject to only little degradation - this has been proven in bench test comparing them to a range of fibers of other brands.
- The full range of flat-tip standard fibers are available as **single-use** or **reusable** products to meet the requirements of clinic-specific processes.

## THE DORNIER FLEX FIBER COLLECTION

### Dornier SingleFlex™

Disposable fibers for convenient handling and consistent performance.

### Dornier SmartFlex™

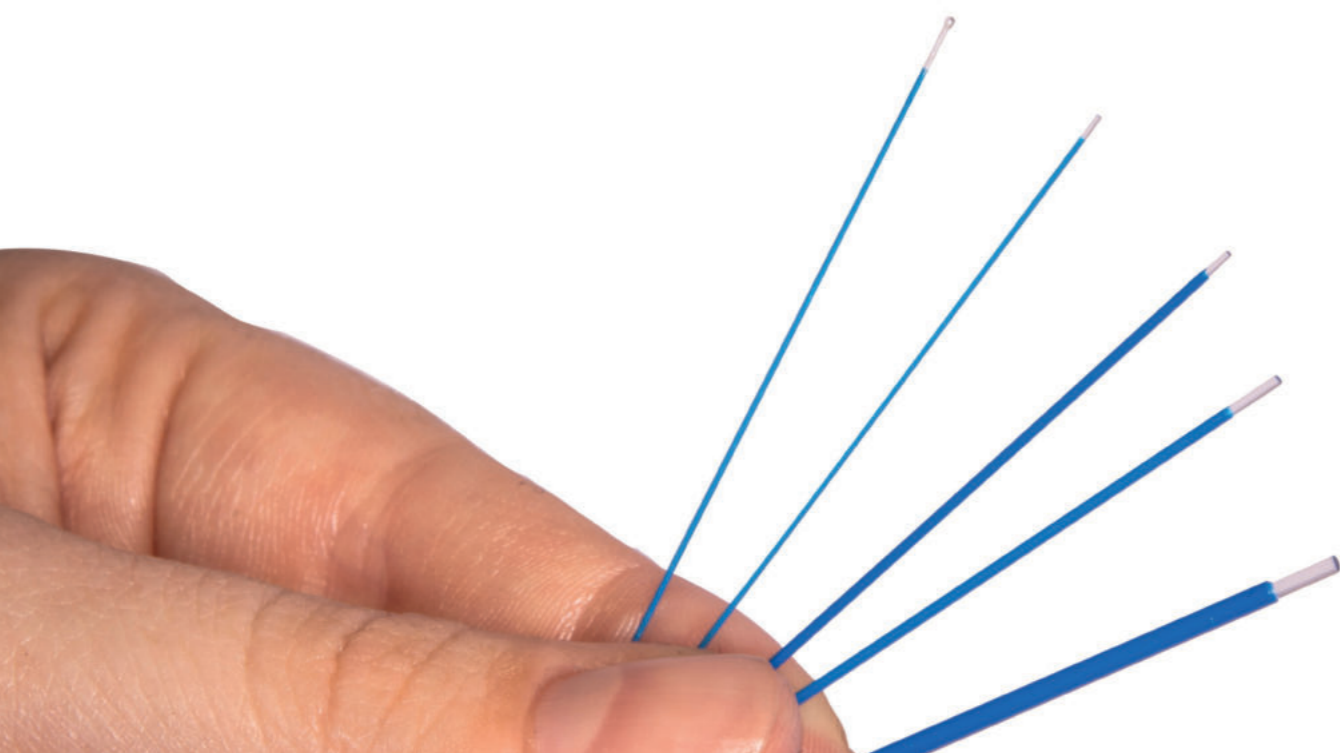
Reusable fibers with exceptional durability and low fiber degradation.

### Dornier HeatFlex™

Reusable fibers with exceptional design withstanding up to 134°C for 18 minutes - helping you to incorporate the highest sterilization standards.

### Dornier GentleFlex™ ball-tip fiber

Especially designed for the use with flexible endoscopes. Thanks to its ball-shaped tip, this fiber can be inserted in a 180° deflected URS without risking equipment damage.



## DORNIER MEDILAS® H SOLVO® 35 WAS DEVELOPED BY DORNIER MEDTECH

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DANGER  
VISIBLE AND INVISIBLE LASER RADIATION  
AVOID EYE OR SKIN EXPOSURE TO  
DIRECT OR SCATTERED RADIATION  
CLASS 4 LASER PRODUCT (IEC:20025-1:2014-05)

[www.dornier.com](http://www.dornier.com)

**Leading Technology. Improving Life.**

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DMT520-122018-REV A EN

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