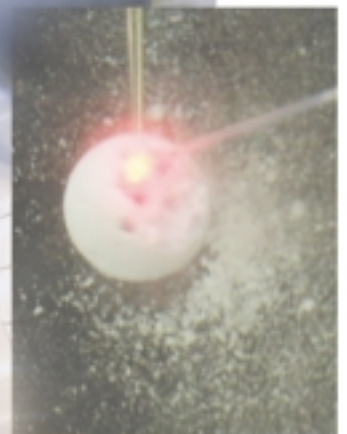


# The Dornier *Medilas H 20*

*The Holmium Laser for Lithotripsy*



**Dornier** *MedTech*

WE'RE ALL ABOUT PEOPLE.



## Excellence in Lithotripsy

### Innovation in Stone Therapy

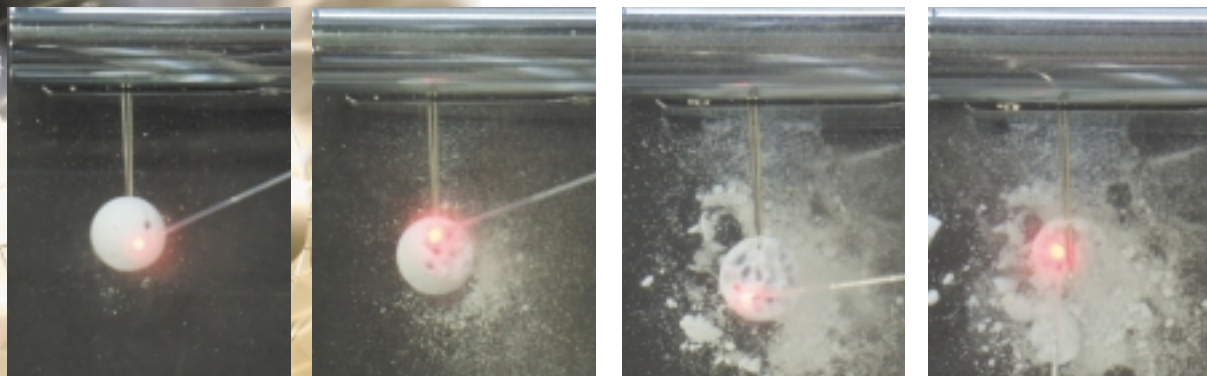
The Dornier Medilas H 20 is specially designed for the treatment of stones and soft tissue. The system has the capability to address a diverse spectrum of Urological capabilities, due to its 20 Watt power and 2.1µm wavelength. Irrespective of their hardness and chemical consistency, the high-energy pulses fragment urinary calculi. Complemented by a spectrum of flexible lightguide fibers, virtually all stone locations are accessible in endoscopic applications.

### Adaptability

The Dornier Medilas H 20 is a low-maintenance system with minimal operating costs. Based on its slim, compact design this laser system is ideal for any setting. There are no unique power or water requirements. The device merely plugs into an individually fused, single-phase outlet.

### Multi-Purpose by Design

In addition to treating renal stones, the Dornier Medilas H 20 possesses other capabilities. The ablation capability of the laser allows the access for treatment of stones that are concealed by soft tissue. In addition, it is effective for other soft tissue applications such as tumor ablation and the treatment of strictures.



Based upon the principle that Holmium laser energy is strongly absorbed by water, the short laser pulses create a shockwave that causes fragmentation of both ureteral and intrarenal stones. Due to the flexibility and

control of the system, different treatment techniques can be applied depending upon the location and shape of the stone. For example, smaller stones can be fragmented directly, whereas with larger concre-

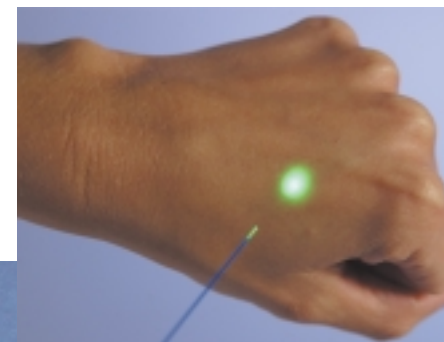
ments, holes are first made in the center, after which the edges can then be fragmented. Finally, the stone residues can be flushed out utilizing the endoscopes rinsing fluid.

### State-of-the-art Display and Interface

The state-of-the-art, touch sensitive color screen aids in the viewing of display controls. The bi-modal screen allows flexibility for individual user preferences. In addition, the system is designed with user-definable protocol settings.

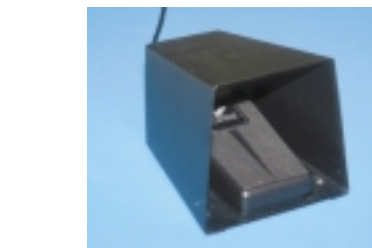
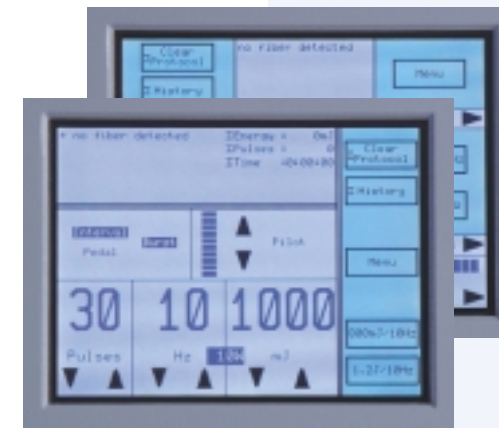
### Unique Characteristics

The 20 Watt power of the system allows usage with a variety of applications. This laser is equipped with a green aiming beam, which aids in targeting. The enhanced fiber holder has a special design, preventing potential damage to the fiber.



### Lightguide System

The latest fiber technology with a quartz ferrule is available with various fiber core diameters. This provides maximum transmission of the energy to the stone for enhanced therapeutic



### Treatment Control

The distinctive accelerator foot pedal allows treatment flexibility by providing the operator the ability to change the pulse frequency. Adding pressure to the foot pedal will increase the pulse frequency and decrease treatment time.

### Distinctive Features

- 20W power efficiently performs variety of applications
- Special fiber quartz ferrule design protects laser from fiber damage
- Hands-free accelerator foot pedal provides precise control of pulse frequency
- Green aiming beam for improved targeting
- State-of-the-art color touch screen with intuitive user interface for easy operation
- Highly effective Lithotripsy treatment option (fragmentation rate > 95%)
- 3 pulses per second for easier targeting of highly mobile stones
- Use of extremely thin, flexible ureterorenoscopes is possible due to various diameters of lightguide fibers
- Specially designed fiber holder protects fiber from damage
- Small footprint to fit in any environment

Effective  
**Dornier Medilas H 20**

effectiveness. A special quartz ferrule design protects the sensitive input optics of the laser and enhances the reliability of the system.



## Technical Data

**Laser type:**

Ho:YAG solid-state laser, pulsed

**Wavelength:**

2.1 µm

**Aiming beam:**

532 nm, 0 - 1mW, adjustable in 10 levels and blinking

**Pulse energy:**

400 - 2500 mJ

**Pulse frequency:**

3 - 12 pulses per second

**Maximum power:**

20W @ 2500 mJ, 8Hz

**Pulse duration:**

350 µs

**Dose mode:**

5 - 99 (can be preset)

**Lightguide fiber:**

Disposable lightguides with bare fiber tip, SMA type with integrated quartz ferrule, sterile, available in various diameters

**Log:**

Display of pulses, time and energy applied

**Memory:**

Two programmable buttons allowing user to select pre-defined sequences

**Power supply:**

115/208/230 V, 50/60 Hz, max 1.8 KVA @ 115 VAC; max 2.4 KVA @ 208, 230 VAC

**Cooling system:**

Closed water-air cooling circuit

**Dimensions (h x w x d):**

43" x 17" x 30" (109 x 44 x 77 cm)

**Weight:**

176 lbs. (80 kg)

**Safety standards, classification:**

IEC 601/ IEC 825

CE 1275

European Directive on Medical Products

Laser class IV

CE 1275



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