

DORNIER MEDILAS H SOLVO

30 Watt Holmium:YAG laser – the power needed for advanced stone management



PRECISE AND CONVENIENT HOLMIUM LASER

Medilas H Solvo 30-Watt Holmium:YAG laser

The Solvo is an innovative 30 W Holmium:YAG laser system that is ideal for the elimination of stones regardless of chemical consistency and hardness, as well as for selected soft-tissue intervention in endourological procedures.

- Fast start-up with no warm-up period
- State-of-the-art, high-resolution touch-screen control
- Intelligent fibre recognition system
- DVI output to external monitor for better visualisation of laser settings



Hands-free control

A unique three-pedal wireless foot switch allows the surgeon to be in control of the laser.

- Large central pedal for easy and safe release of laser energy
- Lateral switches for configuring laser parameters
- No cable on the floor eliminates tripping hazard and cord damage
- Allows the surgeon to switch between standby and ready modes



Intelligent fibre recognition

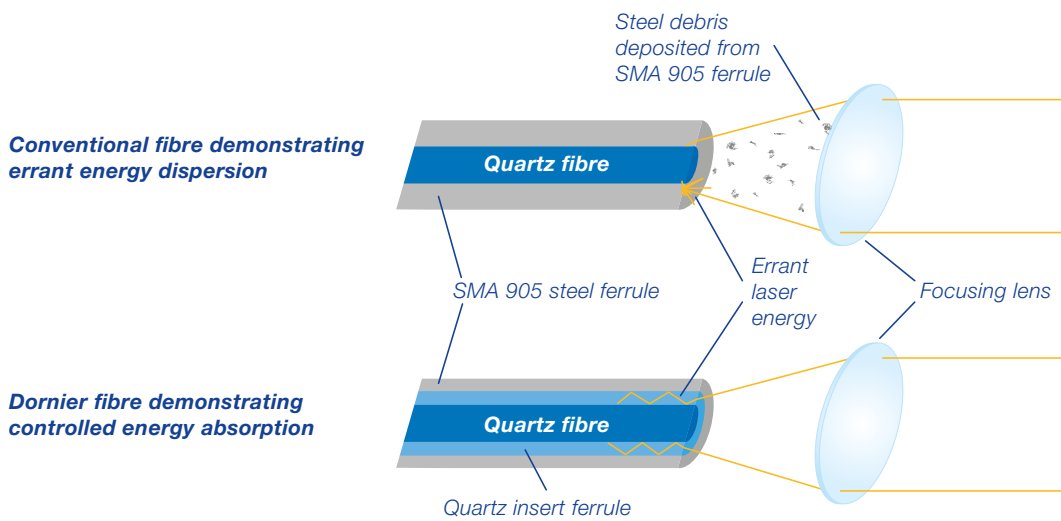
Featuring an intelligent fibre recognition system, Solvo provides the user with immediate information regarding the connected fibre.



DURABLE FIBRES OPTIMISE LASER ENERGY DELIVERY

Preventing costly scope repairs

Our specially designed laser fibres utilise a larger quartz sleeve that extends the entire length of the fibre. The sleeve transmits errant energy along the ferrule surface, allowing for controlled absorption over a much greater area, thus preventing damage to the focusing lens and providing further protection from damage that can lead to costly scope repairs.



Superior performance and durability

The fibres feature a Delrin® SMA connector that doesn't heat up like metal SMA connectors. Competitive benchmark testing demonstrated that the Dornier 270 µm fibre had the best transmission efficiency both at 10 W and 30 W at a bend radius of 7 mm.

Holmium laser fibre competitive testing ¹																		
Fibre name	Size	Trial	Fibre tested for five minutes at 7 mm in water (1,000 mJ at 10 Hz = 10 W) utilising Dornier H Solvo laser							Same fibre tested for one minute at 7 mm in water (3,000 mJ at 10 Hz = 30 W) utilising Dornier H Solvo laser								
			0%	70%	75%	80%	85%	90%	95%	100%	0%	70%	75%	80%	85%	90%	95%	100%
AMS SureFlex	273	1	F															F
		2	F															F
		3	F															F
Boston Scientific AccuMax	273	1	F															F
		2	F															F
		3	F															F
Boston Scientific Flexiva	272	1		75%														F
		2		70%														F
		3		75%														F
Cook Optilite	273	1		90%														F
		2		95%														F
		3		90%														F
Laser Peripherals	273	1		85%														F
		2		90%														F
		3		85%														F
Dornier HLF0270DBXC	272	1		95%														100%
		2		95%														100%
		3		95%														100%

F = Fibre failed or broke during test

■ = Completed test

¹ Dornier MedTech Analysis, December 2012

MEDILAS H SOLVO 30-WATT HOLMIUM:YAG LASER

Ordering information

Laser systems

EGHLS30W Solvo 30-Watt Holmium:YAG laser system (wireless foot switch)

Single-use laser fibres (pack of three)

EGHLFDBX0270C 270-micron single-use laser fibre, 3/box

EGHLFDBX0400C 400-micron single-use laser fibre, 3/box

EGHLFDBX0600C 600-micron single-use laser fibre, 3/box

EGHLFDBX1000C 1,000 micron single use laser fiber, 3/box

Reusable laser fibres (pack of three)

EGHLFRBX0270C 270-micron reusable laser fibre, 3/box

EGHLFRBX0400C 400-micron reusable laser fibre, 3/box

EGHLFRBX0600C 600-micron reusable laser fibre, 3/box

EGHLFRBX1000C 1,000-micron reusable laser fibre, 3/box

Accessories

EGHLA0270FS Stripper for 270-micron fibres

EGHLA0400FS Stripper for 400-micron fibres

EGHLA0600FS Stripper for 600-micron fibres

EGHLA1000FS Stripper for 1,000-micron fibres

EGHLAFCS Sapphire pen style fibre cutter

EGHLAFCC Ceramic wafer style fibre cutter

EGHLAFS Wired foot switch

EGHLASG Safety glasses

EGHLASGG Safety goggles

EGHLAWS Laser warning sign

Specifications

Solvo 30-Watt Holmium:YAG laser

Laser type Holmium (Ho:YAG), solid-state pulsed laser

Wavelength 2,080 nm (commonly referred to as 2.1 µm)

Laser energy 200–3,500 mJ

Laser frequency 3–20 Hz

Maximum power 30 W at 3,000 mJ/10 Hz (208–240 VAC supply)
20 W at 2,500 mJ/8 Hz (115 V (AC) supply)

Aiming beam Green, 532 nm, 0–390 µW adjustable to five levels, constant or intermittent operation

Laser warning signal Optical and acoustic, volume adjustable

Treatment record Number of pulses, energy, frequency, fibre type

Power supply 115/208–240 V (AC), single phase, 50/60 Hz

Power consumption 2.0 kVA max. at 115 V (AC)
2.8 kVA max. at 240 V (AC)

Weight 62 kg (137 lb)

Dimensions box: (D × W × H) 53 × 31 × 109 cm (20.87 × 12.20 × 42.91 in.)

Footprint: (D × W) 62 × 45 cm (24.40 × 17.72 in.)

Laser cooling system Internal closed water-air cooling system

Transmission system Optical fibre with SMA connector

Foot switch Electrical, wireless

Standards IEC 60601, IEC60825, MDD/European medical

Device directive, CE

Medical device class IIb; electrical device protection

Class 1, type B, laser class 4

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Specifications, design, and accessories are subject to change without any notice or obligation on the part of the manufacturer.

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