OLYMPUS

Your Vision, Our Future

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

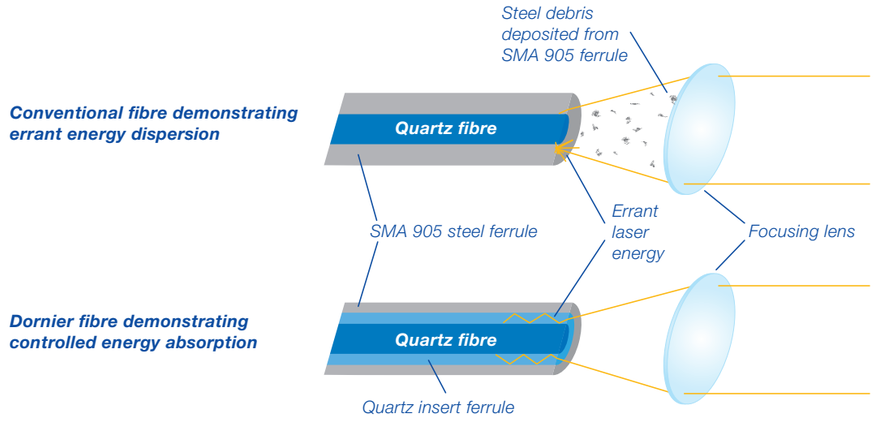
Intelligent fibre recognition

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 tested for five minutes at 7 mm in water								Same fibre tested for one minute at each radius (mm) in water							
Fibre name	Size	Trial	**(1,000 mJ at 10 Hz = 10 W) utilising Dornier H Solvo laser**								**(3,000 mJ at 10 Hz = 30 W) utilising Dornier H Solvo laser**							
Transmission efficiency			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									F							
		2									F							
		3									F							
Cook Optilite	273	1																
		2									F							
		3																
Laser Peripherals	273	1									F							
		2									F							
		3																
Dornier HLF0270DBXC	272	1																
		2																
		3																

F = Fibre failed or broke during test ■ = Completed test [1] Dornier MedTech Analysis, December 2013

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
EGHLAFCC	Sapphire-tipped pen (fibre cutter)
EGHLAFCS	Scribe (fibre cutter), wafer style
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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