

FIBERSCAN *ECO*



SiroLasertec *

FIBERSCAN ECO

The system

The **FiberScan Eco** laser system is your cost-effective entry point into the diverse world of laser processing. This high-quality system uses state-of-the-art fibre technology. It enables high-precision engraving of the most complex templates using a wide variety of materials. The system is very user friendly and can be used by beginners or highly advanced users. Thanks to its compact design the system can be integrated into practically every workshop, requiring a minimum of space. As with everything Siro Lasertec produces, the **FiberScan Eco** features solid workmanship and a long service life.

Software

The software is just as important as an efficient laser system. It is the interface between user and machine. The user must be able to use each of the many applications individually - and as intuitively as possible. Compromising on the marking software was therefore out of the question. For this reason, we do not rely on third-party software but on our own development, which has been perfected over many years. Our V3 marking software was developed especially for the applications used by our customers in the jewellery and watch-making industry. The focus here is on rotary axis applications. Our V3 is an open-source software which is constantly being updated and enhanced, always incorporating the latest input from our customers. The user can programme the software to his own requirements.

Accessories:

Eco protective housing

For safe operation we recommend that the appropriate protective housing is used for all our engraving lasers. The compact Eco protective housing has been developed specially for the FiberScan Eco. It offers optimum laser safety. (class 1 laser safety).

Rotational axis

The rotation module ensures optimum processing of rings and other circular parts. Templates of 360° engravings can be processed on the inner and the outer surface of the workpiece.

Cutting module

The cutting module converts your FiberScan Eco into a laser cutting system. This system is freely adjustable, has an integrated feed function and is also suitable for continuous operation.

Among our customers are some of the most important jewellery and watch manufacturers in the world. Our customers' expectations of us are therefore correspondingly high. This is our constant motivation. Do not hesitate to contact us, we will be happy to help you configure your own specific laser system.



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Variations

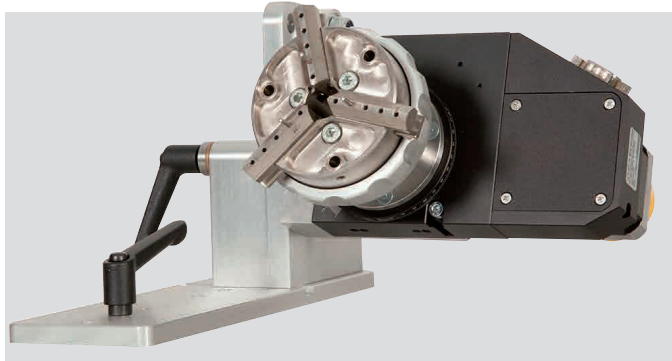


FiberScan Eco in Eco protective housing (class 1 laser)
aluminium T-slotted clamping plate, manual lift door, including rotational axis.

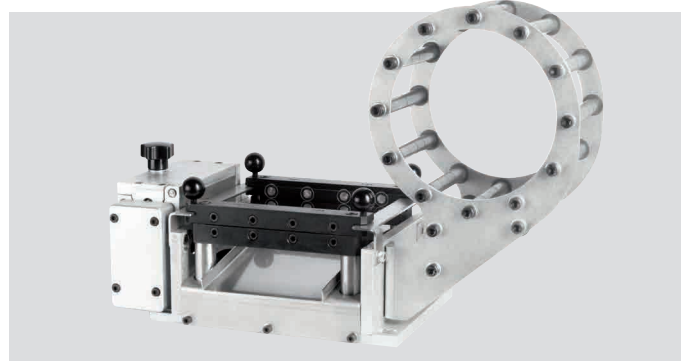


FiberScan Eco, set of accessories Eco (class 4 laser)
with aluminium base plate, rotational axis and protective goggles.
Available as a set for open processing.

Modules



Rotational axis
for marking circular parts, rings etc. Automatic processing of 360° engravings – inner and outer surface. Removable jaw chucks.



Optional: cutting-tool "Siro-Cut Pro"
Sheet-dragging device with integrated motor. For continuous roll- and sheet-cutting.

Examples



There are many different possible applications for the **FiberScan Eco**. Its main differentiator with respect to traditional diode lasers is its faster operating speed for deep engravings. The **FiberScan Eco** distinguishes itself with extremely fine laser engravings of impeccable quality. Cutting applications are also possible.

FIBERSCAN ECO

Laser power	10 W	20 W	30 W
Lasertype	Yb:Fibre Laser (Q-switched)		
Beam quality	M²≤ 1,6		M²≤ 1,8
Pulse max. power	6,25 kW	12,5 kW	
Pulse energy	0,5 mJ	1 mJ	
Wave length	1064 ± 4 nm		
Pulse repetition rate	20–80 kHz		30–80 kHz
Adjustable Pulse-length	80 - 120 nsec		80 - 140 nsec
Fibercable-length	3 m		
Laser class	4, optional 1		
Print area	optional: 60 x 60; 110 x 110; 180 x 180 mm		
Input	200W	250W	300W
Connected load	85-240VAC / 10A / 50-60Hz		
Weight	8 kg / 20 kg		
Dimensions (LxBxH)	595 x 202 x 140 / 650 x 225 x 460 mm		
Interfaces	USB 2.0, SPS-Interface, 4 Inputs/4 Outputs		
Functional Safety acc. DIN EN ISO 13849-1	PLe		



	10 W	20 W	30 W
Engraving	●	●	●
Deep engraving	○	●	●
Carbonation	○	●	●
Cutting	-	○	●
Hallmarking	●	○	○
● very good ○ good - unsuitable			

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