

FILOS

FILOS is the OEM ready pulsed fiber laser source addressed to a wide range of industrial applications including marking, engraving, material processing, micromachining, scribing.

Thanks to extended temperature range up to 55°C, higher output power, maintenance free design, easy to integrate I/O interface, the FILOS fiber laser source meets industrial standards and ensuring high reliability and long-life operation at low operational cost.

Main Features

- High performance even in harsh environments up to 55°operative temperature
- Designed for high process reliability
- 10% Higher Power* & Zero Leakage**
- Fast turn-on time & turn-off time to ensure the highest production throughput
- Market standard 8 bits TTL interface and mechanical footprint
- Integrated red aiming beam
- 24VDC power supply
- Embedded diagnostic features by RS232 interface

*= +10% average power compared to other commercial 10, 20W fiber laser sources

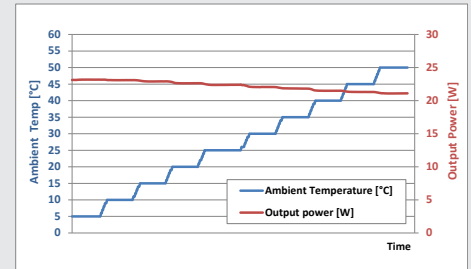
** = true zero power output when gated off ensure no ghost lines even on sensitive materials

TECHNICAL SPECIFICATION

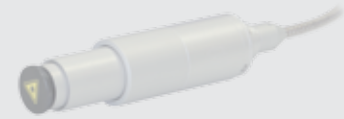
	FILOS 20W	FILOS 10W
Mode of operation	Pulsed	
Wavelength	1060 – 1080 nm	
Nominal average power	22W	11W
Pulse Energy	1,1 mJ	0,6mJ
Peak power (max @ 20KHz)	10 kW	6 kW
Pulsewidth	100 nsec	
Repetition rate	20 kHz ÷ 100 kHz	
Switch-on time	180 µsec	
Switch-off time	80 µsec	
Fiber delivery length	3 m standard	
Beam diameter (FW@1/e2 of intensity)	6 ± 0.5 mm (G model) 5 ± 0.5 mm (C model) 8 ± 0.5 mm (P model)	
Red aiming beam	Class 2M red diode laser 635nm	
Temperature Range	Operative • 5°C to 55°C (50% emission time) • 5°C to 50°C (100% emission time) Storing -10°C to +60°C	
Cooling	Air cooled	
Voltage supply	24 VDC	
Power consumption	< 150 W	
Humidity (non condensing)	Max 95%	
Rack Dimensions & Weight	mm 215x95x286	kg 4,9

TYPICAL APPLICATIONS

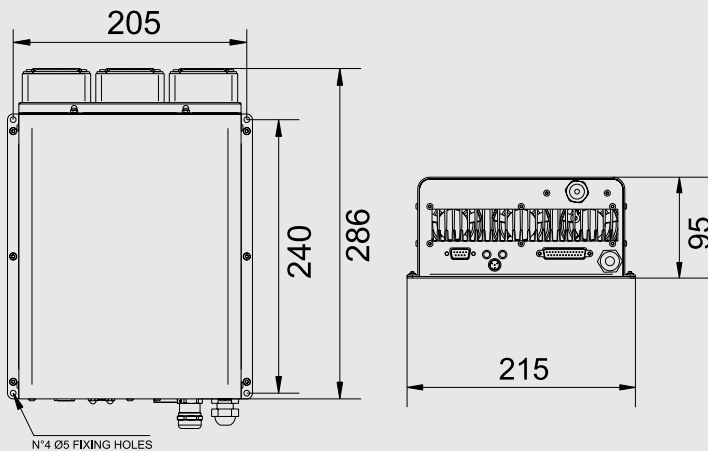
- Marking
- Engraving
- Surface treatment
- Micromachining
- Scribing
- Etching
- Trimming



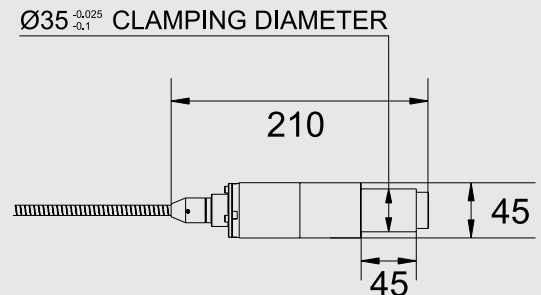
Power Stability vs. wide Temperature Range



LASER BOX DIMENSIONS



BEAM COLLIMATOR DIMENSIONS



MODEL SELECTION AND ORDER INFORMATION

MODEL	DESCRIPTION	ORDER N°
FILOS 120P-0000-000 Fiber IR Source	20W IR Fiber Laser source Beam diam. 8mm	985070001
FILOS 120C-0000-000 Fiber IR Source	20W IR Fiber Laser source Beam diam. 5mm	985070002
FILOS 120G-0000-000 Fiber IR Source	20W IR Fiber Laser source Beam diam. 6mm	985070003
FILOS 110G-0000-000 Fiber IR Source	10W IR Fiber Laser Marker Beam diam. 6mm	985070004

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