

2 μm Thulium Fiber Laser

Up to 50 W



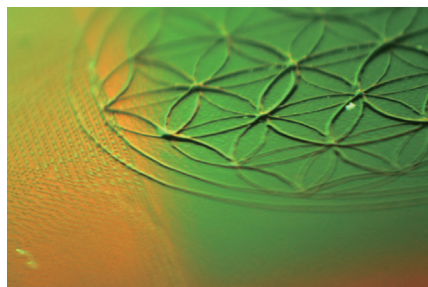
The new Industrial Fiber Laser product line by Futonics is based on Thulium single-mode 2 μm fiber laser oscillators with wavelength stabilization by Fiber Bragg Gratings (FBG). Due to high power, high beam quality and compact design, these products are highly suitable for a broad range of industrial and scientific applications.

Features

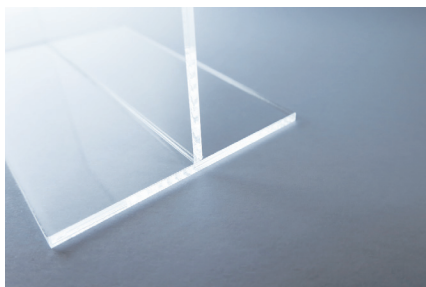
- Different output power levels and emission wavelengths (1930 nm - 2050 nm)
- High beam quality in full power range
- Stand-alone robust tabletop housing
- Robust to back reflections
- 2 RU housing
- Low noise

Applications

- Cutting and marking of plastics
- Welding of transparent plastics
- Labeling of food items
- Mid-IR laser pumping
- Surface treatment
- Marking of metals



Engraving of transparent plastics



Welding of transparent plastics



Natural branding

2 μm Thulium Fiber Laser

Technical Specifications



Optical specifications

Output power:	10 W (IFL10), 20 W (IFL20), 30 W (IFL30), 40 W (IFL40), 50 W (IFL50)
Standard wavelengths:	2000 nm or 2050 nm
FWHM:	< 1 nm
Beam quality:	$M^2 < 1.2$, single-mode
Operating mode:	CW, modulated up to 1 kHz
Laser class:	4
Fiber connector, NA, length:	FC/PC or SMA, 0.15, 5 meters
Collimator:	Optional

General specifications

Dimensions (width x height x depth):	483 mm x 88 mm x 505 mm (19", 2 RU)
Supply voltage:	100 - 240 VAC, 50 - 60 Hz
Power consumption:	≤ 350 W
Standard interface:	D-SUB 25, D-SUB 9
Display:	Capacitive 3.5" touch-screen & control wheel
Cooling:	Water

Options

Additional fiber length:	1 meter steps up to 20 meters total
Fiber connector:	FC/PC, SMA, QBH connection possible
Fiber applicator I:	Basic collimator
Fiber applicator II:	Enhanced collimator with power detection for closed-loop control
Power stabilization:	Closed-loop control up to 10 kHz
Fixed custom wavelengths:	Selection between 1930 nm and 2050 nm
External power supply:	Optional
Enhanced interface:	Industrial Ethernet available upon request

All product information is believed to be accurate and is subject to change without notice. Information contained herein shall legally bind Futonics only if it is specifically incorporated into the terms and conditions of a sales agreement. The user assumes all risks and liability whatsoever in connection with use of a product or its application. © 2019 Futonics Laser GmbH. All rights reserved.