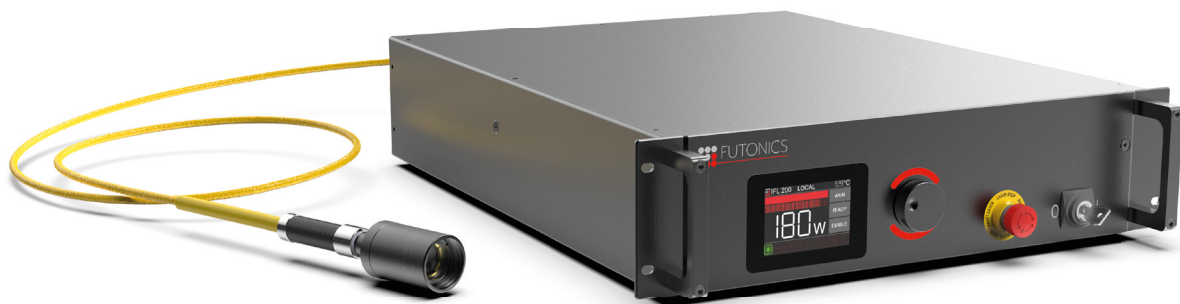


2 μm THULIUM FIBER LASER

Up to 1200 W QCW and 400 W CW



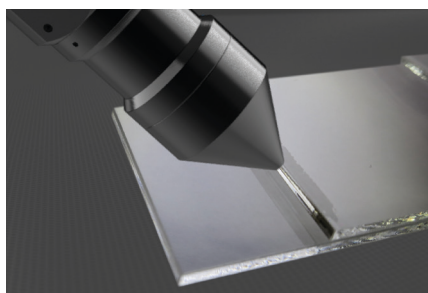
Futonics' new product line of industrial fiber lasers is based on thulium single-mode 2 μm fiber laser oscillators featuring wavelength stabilization via Fiber Bragg Gratings (FBGs). Thanks to their high power, excellent beam quality and compact design, these products are ideally suited for a wide range of industrial and scientific applications.

Features:

- Various output power levels and wavelengths (1908 nm - 2050 nm)
- High beam quality in full power range
- Stand-alone housing or OEM version
- Robust to back reflections
- 3 RU housing
- Low noise

Applications:

- Cutting and marking of plastics
- Welding of transparent plastics
- Labeling of food items
- Mid-IR laser pumping
- Laser weeding
- Lithotripsy (stone treatment)
- Soft tissue cutting



Welding of transparent plastics



Laser weeding



Urology

2 μm THULIUM FIBER LASER



FUTONICS WATERCOOLED 3RU LASER

Optical Specifications	
Average Power (CW)	400 W
Peak Power (QCW)	1200 W
Pulse Energy	10 J @ 1200 W
Pulse length	0.03 - 50 ms
Pulse Repetition Rate	1 - 3000 Hz
Wavelength	1908 nm - 2050 nm (fixed)
Emission Spectra Line Width (FWHM)	< 0.4 nm
Beam Quality	$M^2 < 1.2$, single-mode
Mode of Operation	CW, QCW
Laser Safety Class	4
Fiber Connector, length	Futonics Standard, up to 10 m
NA	0.1
General Specifications	
Dimensions ¹	442 mm x 115 mm x 557 mm (19", 3 RU)
Logic Power supply	24 V, 3 A (72 W)
Power supply	CW: 48 V, 40 A / QCW 48 V 80 A
Efficiency	> 25%
Display	Capacitive 3.5" touch-screen & control wheel
Cooling Water	(16-22° C)
Interface	USB, D-Sub 25
Options	
Fiber applicator	Enhanced collimator with power detection for closed-loop control
Power stabilization	Closed-loop control up to 10 kHz
Housing	Stand-alone with display or OEM without display

¹ Width x height x depth

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