



Single-Mode CW Fiber Laser



FEATURES

- Low cost
- Maintenance free operation
- Excellent power stability
- High wall-plug efficiency
- Modulation frequency up to 5kHz
- High beam quality for precision machining
- Outstanding reliability
- Convenient control interface

APPLICATION

- Precision cutting
- Surface treatment
- 3D printing (SLS/SLM)
- Precision welding
- Drilling
- Metal plates processing

BWT laser 3000W single mode Yb-doped fiber lasers features high beam quality near diffraction limits for precision materials processing. With two optional modes, continuous mode and pulse mode, HAZ (heat affected zone) can be minimized. The system is designed for outstanding reliability and can be operated in harsh industrial application environment.

BWT laser 3000W fiber lasers are suitable for many applications, such as precision machining, 3D printing, metal plates processing, Li battery soldering, etc. Materials can be processed include steels, aluminum based and nickel based alloys, copper, titanium alloy, ceramics and many others.



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Technical Specification

Optical Character	
Power	3000W
Wavelength	1080±10 nm
Output fiber core diameter	50um or 100um
Cable Length	20m or Customized
Beam Delivery	QBH or Customized
Guide Beam	Red
Operation Mode	Continuous or Modulated
Polarization	Random
Power Stability (25 °C)	<3% (2h)
Power Adjustment Scope	10%-100%
Max Modulation Frequency	5kHz
Overall size and weights	
Weights	<95Kg
Outline Feature	6U (266 mm), 678mm
Electronic Character	
Voltage	Three Phase, 400V, AC, PE, 50/60Hz
Power Consumption	10.5kW
Control Interface	RS232
Water Cooling Parameters	
Minimum Water Cooling Capacity	10 kW
Temperature Settings	25 °C (Laser Module), 30 °C (QBH)
Cooling Tubes Size (Inner)	19mm
Cooling Water Flux	>35 L/min
QBH Cooling Water Flux	1.5~2.0L/min