



2000W BLUE LASER

Compared with traditional lasers, BWT's BDL-CW series blue laser has a higher absorption rate for materials such as copper and aluminum, and can realize processing of non-ferrous metals with lower power. This series of products are compact in structure and very convenient to use. Because of its flexible laser output mode, it can be easily integrated with system equipment.

It can be applied to metal welding, industrial cladding, quenching, material processing, laser research, etc. BWT has engineers proficient in laser applications and systems, who can provide you with professional application solutions.



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YouTube

Features

Low cost and maintenance-free	There are two modes of continuous and modulated pulse to optimize processing quality
Excellent power stability	Good beam quality, suitable for precision processing
Excellent system stability	High electro-optical conversion efficiency
Simple control interface	Maximum modulation frequency up to 5kHz

Applications

Additive manufacturing
Surface heat treatment
Welding
Lithium battery processing

Product Technical Indicators

Optical Characteristics	
Power	2000W
Wavelength	450±10 nm
Output fiber core diameter	600µm
Cable Length	10m 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
Mechanical Size and Weight	
Weight	<100Kg
Outline Feature	420mm*590mm*900mm
Electrical Characteristics	
Voltage	three Phase,380±20V,AC,PE,50/60Hz
Power Consumption	9.0 kW
Control Interface	RS232
Water Cooling Paramets	
Mini. Water Cooling Capacity	8.0 kW
Temperature Settings	25°C (Laser Module) ,30°C (QBH)
Cooling Tubes Size(Inner)	19mm
Cooling Water Flux	>25 L/min
QBH Cooling Water Flux	2.0L/min

Note: The return light will affect the performance and lifetime of the direct semiconductor laser, and it is necessary to use the output laser 8°-10° vertically from the working table.

Dimensions(mm):

