



1000W 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.



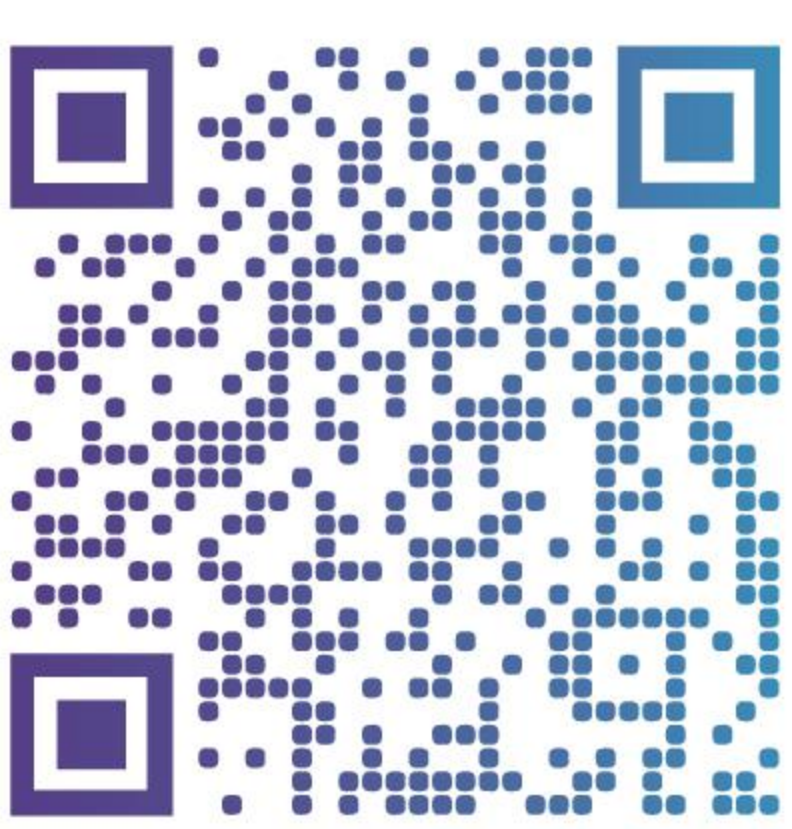
Product & Technical Consultation

Tel +86-10-83681053
E-mail sales@bwt-bj.com

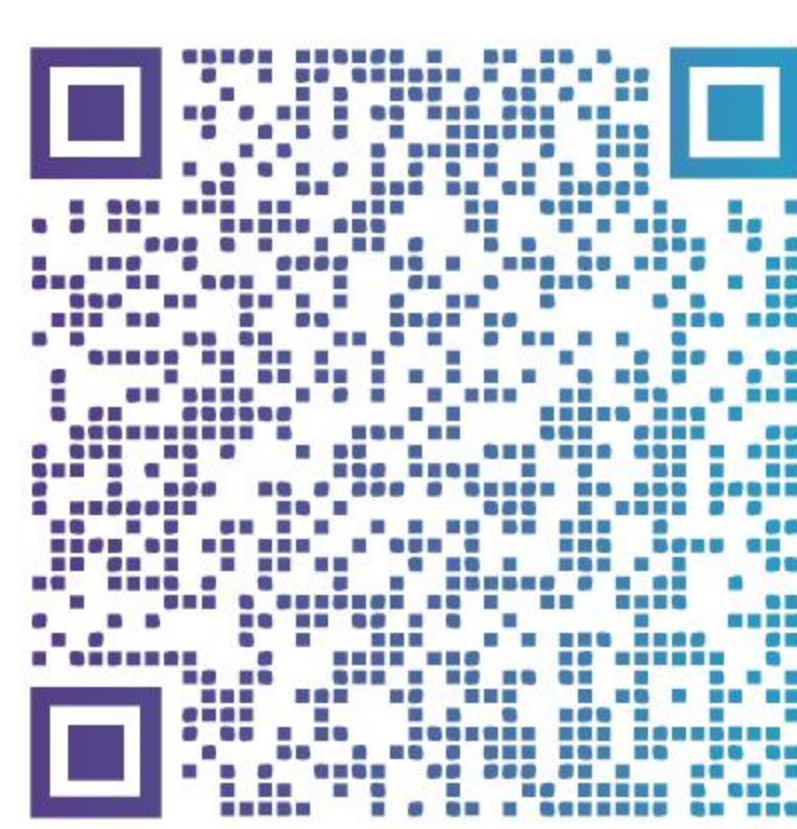


BWT Beijing Ltd

Add 2nd Fl, Fengtai High-Tech Park, No. 4A
Hangfeng Rd. Beijing, China
Web <https://www.bwt-bj.com/en>



Official website



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

Specifications	BDL-CW500-E300	BDL-CW1000-E400
Optical Power	500W	1000W
Wavelength	450±15 nm	
Output fiber core diameter	330µm /400µm	400µm/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	<80kg
Outline Feature	420*590*900mm

Electrical characteristics

Voltage	three Phase, 380±20V, AC, PE, 50/60Hz	
Power Consumption	2.5 kW	5.0kW
Control Interface	RS232	

Water cooling parameters

Mini. Water Cooling Capacity	2.0kW	4.0kW
Temperature Settings	25°C(Laser Module) , 30°C(QBH)	
Cooling Tubes Size(Inner)	19mm	
Cooling Water Flux	>15L/min	>25L/min
QBH Cooling Water Flux	2.0L/min	

Note: The return light will affect the performance and life of the direct semiconductor laser, and it needs to be used under the condition that the output laser is deviated from the vertical direction of the worktable by 8°-10°.

External dimensions

