



6000W COMBINED BEAM YTTERBIUM-DOPED FIBER LASER

BWT's 6000W combined beam ytterbium-doped fiber laser has excellent beam quality and can realize precision processing; it has two working modes: continuous and modulated pulse, which greatly reduces the processing heat-affected zone; it has reliable performance and modular all-optical fiber. Designed, all optoelectronic devices are encapsulated in a rugged chassis, which can withstand harsh industrial application conditions.

It can be used in precision machining, drilling, sheet metal processing, lithium-ion battery processing, and can process various steels, aluminum-based, and nickel-based alloys, titanium alloys, alumina ceramics, etc. BWT has engineers proficient in laser applications and systems, who can provide you with professional application solutions.



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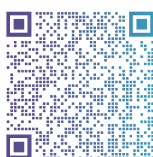


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YouTube

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

Cutting	Welding
Surface treatment	Drilling
Sheet metal processing	Lithium battery production
Additive manufacturing	3D processing

Product technical indicators

Optical characteristics

Power	6000W
Wavelength	1080±10 nm
Output fiber core diameter	50μm/100μm
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

Mechanical size and weight

Weight	< 150Kg
Outline Feature	600*800*600mm

Electrical characteristics

Voltage	Three Phase, 380±20V, AC, PE, 50/60Hz
Power Consumption	18kW
Control Interface	RS232/AD

Water cooling parameters

Mini. Water Cooling Capacity	12 kW
Temperature Settings	25°C(Laser Module) , 30°C(QBH)
Cooling Tubes Size(Inner)	25mm
Cooling Water Flux	>55L/min
QBH Cooling Water Flux	1.5~2.0L/min

External dimensions

