

ZEPHYRUS

Fiber Coupled 450nm **30W** Diode Laser



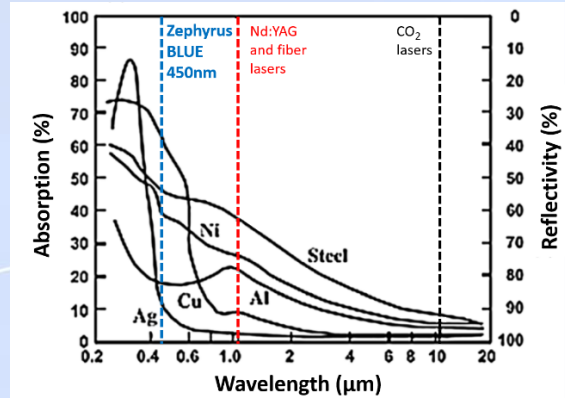
High Power
BLUE laser
diode for
high-reflective-
metal welding
and **material**
processing

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- WELDING
 - SOLDERING ON PCB BOARDS
 - MARKING OF THIN HIGH-REFLECTIVE MATERIAL FOILS
 - TEXTILE CUTTING AND MARKING
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- Valid substitute to state-of-the-art IR lasers: 10x lower power densities required
 - Round homogeneous spot on working area
 - Ease of integration
 - Very high processing speed
 - No consumables: long-lifetimes diode lasers
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The latest technology for material processing

Thanks to the strong absorption of **BLUE 450nm** radiation by different kind of materials (up to 20x compared to IR wavelengths), Zephyrus can access the high-reflective-material processing market with lower power densities compared to state-of-the-art IR lasers.

Welding of thin high-reflective material foils, as well as textile cutting and marking, are the ideal applications of this high power CW BLUE laser.

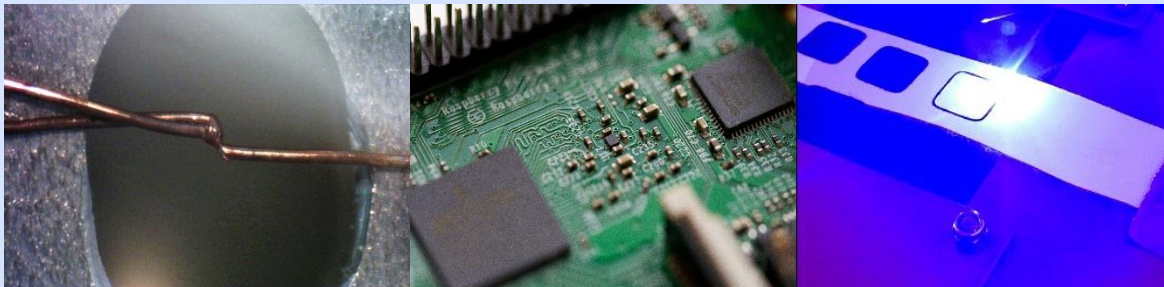


Technical Specifications

Wavelength	445nm +/-5nm
Output Power	30W
Operating Current	3.8A
Operating Voltage	36V
Working mode	CW
Beam delivery	Optical fiber
Fiber type	SMA 200µm NA 0.22
Size	291x180x93mm ³
Cooling	Water
Optional	Focusing Head

* Conditions unless otherwise stated: typical parameters at 20°C water temperature.

* Reliability impacted if operating point deviates from reference condition



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