

## Single Mode High Power Fiber Laser for Materials Processing

By capitalizing on our Coherent Beam Combining technology, we are able to offer high-Power, high-Brightness fiber lasers with output powers of up to 10kW with **single mode beam quality**.

Our superior beam quality single-mode high-power fiber laser provides an excellent solution for all applications that require high power, high brightness, small beam or remote operation. The single mode operation allows faster processing with better quality and finish.



### Applications

- 2D/ 3D Thin and Thick metal processing
- Processing of Aluminum, Stainless Steel, Copper and Brass
- Cutting, Welding, Drilling and Sintering
- Additive Manufacturing
- Surface Treatment

### Features

- Remote materials processing
- Single-mode CW output power from 1kW to 10kW at target
- High Brightness beam ( $M^2 < 1.1$ )

### Optical Characteristics

Wavelength, $\mu\text{m}$	1.06
Mode of Operation	CW
Max. Power, W	10000
Power Tuneability, %	10-100
Power Stability, %	$\pm 2$
Beam quality	Diffraction limited

### General Characteristics

Optical Cabinet Dimensions (W x D x H) , mm	806 x 806 x 1600
Weight, kg	450
Supply Voltage, VAC	400 - 3 Phase and neutral, 50/60 Hz

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