




YLS-CL Series

Ytterbium Cladding Fiber Laser

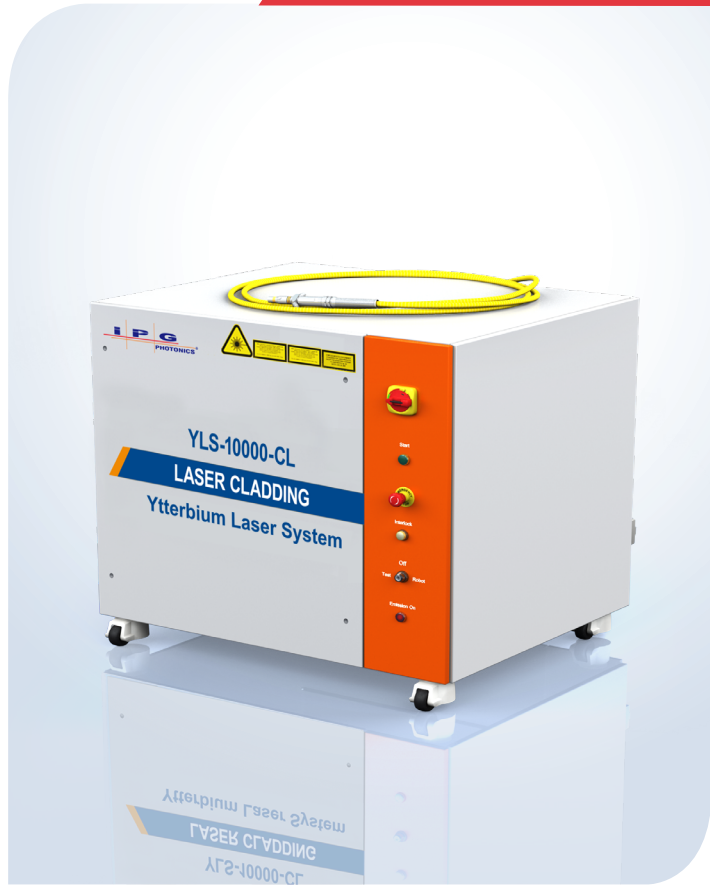
NEW PRODUCT

 Applications

- ▶ Cladding
- ▶ Welding
- ▶ Hardening
- ▶ Surface Treatment

 Features

- ▶ Fiber Delivery
- ▶ Maintenance-free Operation
- ▶ 600, 800 or 1000 μm
- ▶ Record Reliability
- ▶ Hot Redundancy
- ▶ Compact, Rugged Design
- ▶ Modulation up to 5 kHz
- ▶ Wall-plug Efficiency >40%



IPG introduces its new Cladding (CL) Series of fiber lasers specifically targeting cladding, welding, hardening and surface treatment applications. IPG's CL Series has a wall plug efficiency of over 40%, resulting in the lowest electricity cost of any other industrial laser on the market. The laser is extremely compact (8 kW in <0.7 m³ enclosure) and is housed in a hermetically sealed cabinet with built-in dryer; harsh production environments can be handled by the robust maintenance-free laser. IPG's fiber lasers are built with hot diode redundancy providing better reliability than any other laser on the market. Our lasers offer a wide range in output power capability (4-10 kW), chiller capability, different interface configurations and plug and play fiber delivery with interchangeable process fibers available in either square or round diameters up to 1 mm. IPG is ready to provide you with a total solution.

YLS-CL Series

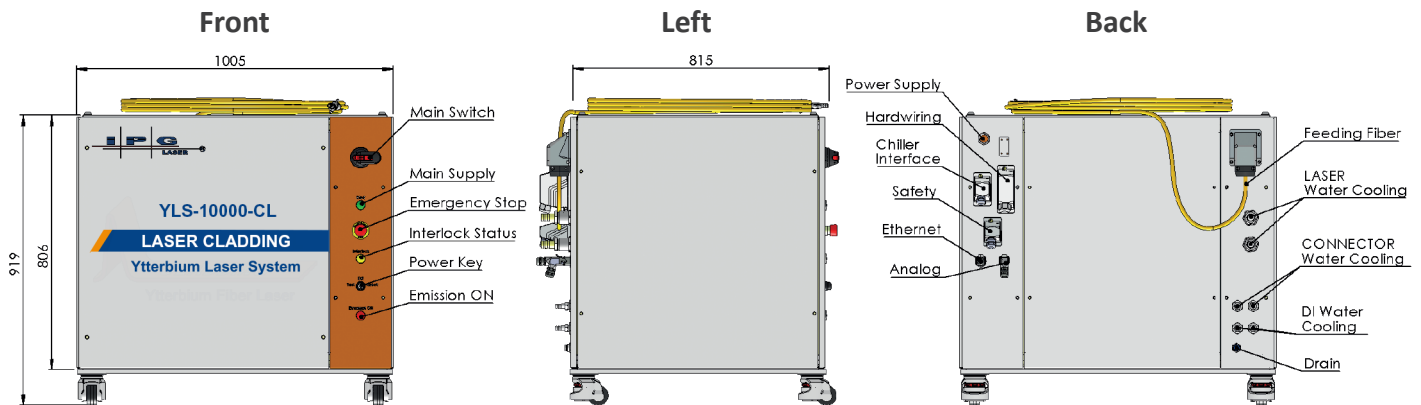
Ytterbium Cladding Fiber Laser

Optical Characteristics

Wavelength, nm	1070 ± 5
Mode of Operation	CW/Modulated
Modulation Frequency, kHz	0-5
Max. Average Power, kW	4, 6, 8, 10
Power Tunability, %	10-100
Power Stability, %	±1
Output Fiber Core Diameter, μm	600, 800, 1000
Beam Parameter Product (Feed Fiber), mm × mrad	<25, <35, <45

General Characteristics

Cabinet Dimensions (W × D × H), mm	815 × 806 × 1005
Weight, kg	270-420
Supply Voltage, VAC	400-460 3-phase, 50/60 Hz
Wall-plug Efficiency, %	40



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MAX. AVERAGE OUTPUT POWER: 20,000 W
 WAVELENGTH RANGE: 900-1200 nm

DANGER - INVISIBLE LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION CLASS 4 LASER PRODUCT
 IEC 60825-1:2014

The Power to Transform®