

Model 408-2

High Power CW Nd: YAG Laser



The 408-2 Integrated Cabinet Series represents the state-of-the-art in high power CW Nd:YAG design. These lasers, by virtue of their high efficiency, single lamp design, offer an economical solution to many welding, cutting and heat treating applications.

Performance	
Wavelength	1064 nm
Maximum Output Power	1250-1300 watts
Recommended Operating Power	200 – 1000 watts
Beam Diameter	6.35 mm
Beam Divergence (at max power)	25 mrad (full angle)
Beam Divergence over recommended power range	5-22 mrad (full angle)
Mode Structure	multimode
Input Power Requirements	
Voltage (standard)	440/480 V, 3 Φ , 50 – 60 Hz
Power Consumption (max)	38 kW
Cooling Water Requirements	
Temperature	< 50°F.
Flow	14 gal/min
Pressure	40 – 60 psi
Dimensions	
System Footprint	58" (L) x 32" (W) x 56" (H)

- Integrated Sealed Cabinet with rigid, welded steel frame construction. Laser power supplies & transformers securely mounted within system enclosure. Designed for the shop floor, multiple shift operation. Removable, interlocked panels permit fast access and system maintenance. Optional stainless steel panels are available.
- Dual Head Laser configuration mounted on ultra-stable granite base. Optical compartment protected within a temperature stabilized environment, with access through a gasket-sealed hinged door. Optional Spotting Diode is available.
- Integrated high-efficiency water to water heat exchanger with proportioning valve control maintains even rod and lamp temperatures for better stability.
- Integrated Touch Screen Controller with external plug for connection to high threshold logic/PLC Controller.
- Standard system configured to accept single output fiber optic beam delivery. Options are available to include conventional optical beam delivery or fiber optic beam delivery (time or power shared configurations are possible).
- OEM configurations are also available.

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