

Pulsed Power Solid-state Laser



Reliable Laser Head With Superior Beam Quality:

The LD800 series lasers are flash lamp pumped Nd:YAG lasers designed to meet the requirement of a wide range of industrial materials processing applications. The dual lamp diffused pumping chamber, twin rods thermal effect removal, unstable optical resonator, and the advanced Beamtech laser techniques provide superior beam quality with lower divergence (LD) when the laser working on the high average power input. This superior beam quality can result smaller focused spot and uniform intensity distribution, which are significant advantages in material processing and optical fiber delivery coupling.

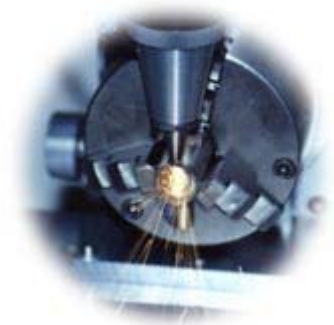
A fully sealed optical path and an inherent rugged constructure of all-optical, mechanical, and electronic assemblies guarantee our LD800 lasers to perform working with high reliability under adverse conditions and keep requirement maintenance to an absolute minimum.

This system allows the placement of flash lamp without disturbing the optical alignment of the system and without the use of special tools.

Solid-State Power Supply:

The solid-state power supply for LD800 series lasers is designed with performance reliability and ease of use in mind. Compact, rugged and self-contained, the power supply provides continuous control of all the laser pulse parameter including pulse energy, pulse width and repetition rates. Except the keyboard (Control Panel), we also provide CNC interface for your programming control work.

Time rising pulse shaping presented for our power supply is much tailored to match the specific requirements of the application and material. It is very effective for some special materials welding.



APPLICATION:

- Welding
- Cutting
- Drilling
- Marking
- Surface treating



SPECIFICATIONS:

	LD802	LD804
Maximum mean power (W)	200	400
Maximum mean energy (J)	50	100
Maximum peak power (kW)	5	10
Pulse width range (ms)	0.3~20	
Repetition rate (Hz)	1~300	
Spot size (mm)	Φ8	
Energy stability (±%)	<5	

Mechanical and Utilities:

	LD802	LD804
Dimension		
Laser Head (mm)	1024 (L) x224 (W) x180 (H)	1240 (L) x224 (W) x180 (H)
Power Supply (mm)	484 (L) x545 (W) x445 (H)	484 (L) x545 (W) x890 (H)
Water		
Service	13L/min	26L/min
Temperature	<18℃	
Electrical service:	380V-3Φ-20A	380V-3Φ-40A
Room humidity:	< 60% at 25℃	
Room temperature:	15℃~35℃	



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