

Litron Total Laser Capability
LPY800

LPY800 Series

Pulsed Nd:YAG Micromachining Lasers for Industrial Applications



LPY800...

High Energy, High Rep. Rate Pulsed Nd:YAG Micromachining Lasers

The LPY802/3(T) Series from Litron

FEATURES

- *Invar stabilised*
- *TEM₀₀ option*
- *Ultra-stable pulse energy*
- *500million shot lamp life*

APPLICATIONS

- *PCB stencil cutting*
- *Medical stents*
- *Diamond wafers*
- *Ceramic cutting*
- *Precision metal component machining*

The LPY802 series of lasers are industrial, high repetition rate, high energy lasers for micromachining applications.

These systems are available with pulse repetition frequencies of 1kHz and 2kHz, and can be configured to give a true TEM₀₀ output with a resulting M² of <1.2, allowing cuts to near micron precision.



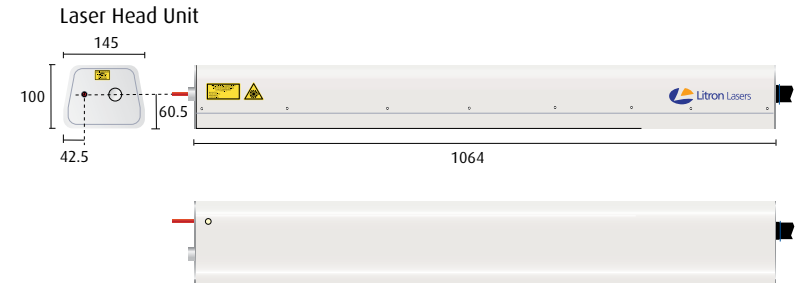
Built to deliver true 24/7 operation in industrial environments the LPY802 is suited to applications such as stencil or stent cutting, or any micromachining of ceramics or metals such as stainless steel. The laser head is based around our rugged self-supporting invar space frame that gives industry leading mechanical and optical stability.

The power supply features direct transistor switching into the flashlamp for the best possible efficiency and lamp lifetime, which is typically in excess of half a million shots.

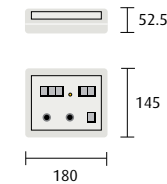
The LPY802/3(T) Series Pulsed Nd:YAG Micromachining Lasers

Technical Data

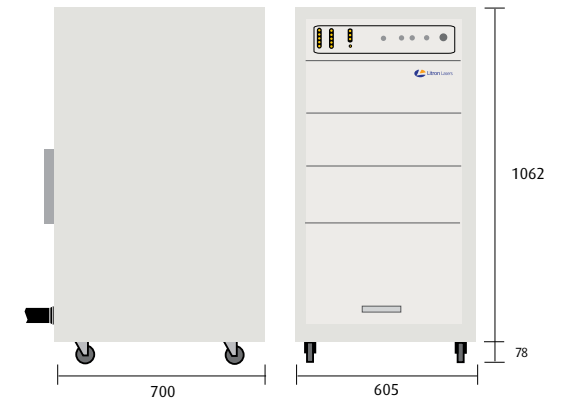
Model	LPY 802(T)-1000	LPY803(T)-2000
Repetition Rate (Hz)	1000	2000
Wavelength (nm)	1064	1064
Output Energy (mJ)		
MM	50	50
TEM ₀₀ ⁽¹⁾	8	8
Pulse Width (us)	20-50	20-50
Pulse Stability p-p (±%)	2	2
Typical Lamp Life (pulses)	500 million	500 million
Beam Diameter (mm)	3	3
MM	4	4
TEM ₀₀	1.2	1.2
Control	RS232	RS232
Services		
Voltage (VAC)	220-250	220-250
Frequency (Hz)	50-60Hz	50-60Hz
Power Phase	Single	Single
Water temp (°C)	20	20
Inlet pressure (bar)	2-5	2-5
Power Supply	22U 19" Rack	22U 19" Rack



Remote Control Unit



Power Supply Unit



All dimensions shown in mm unless otherwise stated.



Our policy is to improve the design and specification of our products. The details given in this document are not to be regarded as binding.

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