



### Description

NS-series TEM00 modification consists of two Q-switched Nd:YAG lasers with 1064nm output (and optional harmonics modules up to fourth)

### Applications

- Scientific (Ti:Sapphire and dye lasers pumping)
- Industrial (LIDAR, LIF, LIBS, LIDT)

### Advantages

- Rugged alignment free design
- 2Y warranty
- Easy integration with customer's system (complete RS-485 control)
- Compact size, low cost



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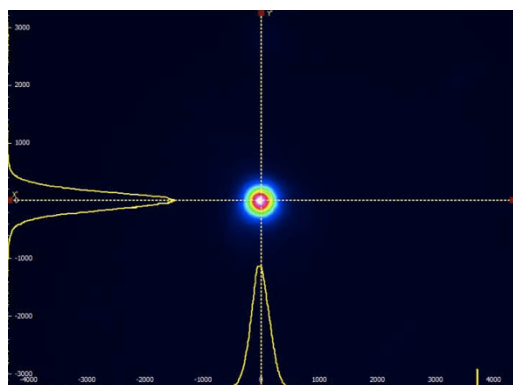
## Technical specifications\*

	NS-450-TEM00	NS-850-TEM00
Type	Flashlamp pumped Q-switched Nd:YAG laser	
Optical scheme	Oscillator + amplifier	
Wavelength	1064nm **	
Maximum pulse energy at 1064nm	>450mJ	>850mJ
Beam diameter	<10 mm	
Max. pulse repetition rate	10Hz	
Pulse width	~5 ns	
Beam quality	$M^2 < 2,5$ , TEM00 (>70% fit in near field, >90% fit in far field)	
Divergence	<0.5mrad	
Polarization	Linear, horizontal	
Laser head dimensions (LxWxH)	460x200x98mm	
Laser head weight	<7,0 kg	
Power supply and cooling unit	19" rack mounted, 6U height (+3U optional), depth 450mm, weight 20kg (30kg) Input 110/230VAC, 50/60Hz	
Interfaces	Remote control with 7" graphical display and touch panel RS-485 machine interface	

(\*) Specifications are subject to change without notice

(\*\*) External SHG, THG and 4HG units are available as options

## Beam profile (far field)



## Remote control, power supply and cooling units

NS-series lasers are equipped both with stand-alone UI (remote control with 7" graphical display and touch panel) and RS-485/USB machine interface. That allows both laboratory usage and integration into the customer's systems. By the same reasons power supply and cooling units are performed in 19" rack format.

## Options

- SHG, THG, 4HG units, optionally with switchable wavelengths
- can be supplied as bare laser heads for further integration with customer's power supply and cooling system