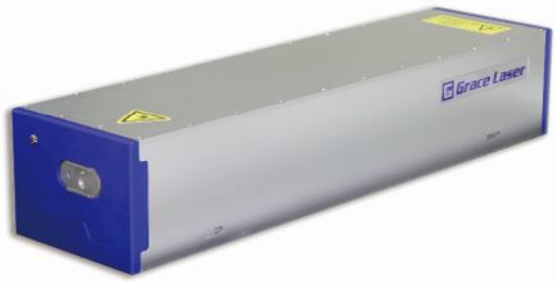
Grace Laser

NASOR series

Flashlamp-pumped Nd:YAG ns-laser



FEATURES

- **200-800mJ** at 1064nm / Harmonics from 532nm to 266nm
- **10-30 Hz** repetition rate / **6-8 ns** pulse duration
- Incorporate Gaussian Mirror to provide outstanding Top hat spatial profile
- Injection seeded single longitudinal mode (SLM) option
- Compact and reliable resonator structure ensures long-term thermal and mechanical stability

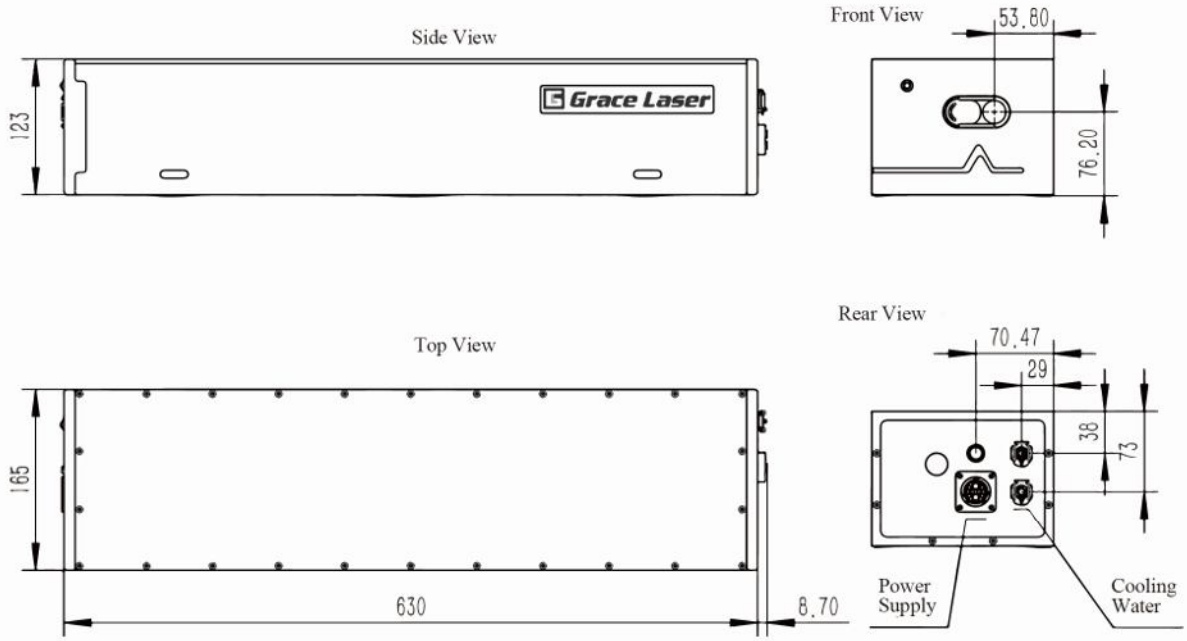
NASOR laser series all feature a efficient single Nd:YAG rod oscillator design, and Gaussian Mirror coupled flat top output. Compact and rugged resonator structure both contribute to NASOR lasers' long term high performance and reliability.

APPLICATIONS

- Material processing
- Laser spectroscopy
- OPO, Ti:Sapphire, dye laser pumping
- Remote sensing
- Biological investigations

NASOR-800 Laser Head
Mechanical Specifications

Unit:mm



NASOR series Specifications

Grace Laser

Flashlamp-pumped Nd:YAG ns-laser

Beam characteristics

Version	NASOR-200	NASOR-400	NASOR-600	NASOR-800
Repetition Rate[1] (Hz)	10-30Hz		10-20Hz	
Energy (mJ)				
1064nm	200	400	600	800
532nm	100	200	300	400
355nm	40	80	150	240
266nm	20	40	60	80
Energy Stability RMS (%)				
1064nm	0.7%			
532nm	1.2%			
355nm	1.7%			
266nm	2.8%			
Power Drift[2] (%)				
1064nm	3%			
532nm	5%			
355nm	8%			
266nm	10%			
Pulsewidth FWHM[3] (ns)	6-8ns @1064nm			
Divergence[4] (mrad)	<0.6mrad			
Beam Pointing Stability[5] (μrad)	$\pm$50μrad			
Timing Jitter RMS[6] (ns)	<0.5ns			
Beam Diameter (mm)	~6	~7	~8	~9
Beam Spatial Profile	Top hat			
Near Field Fit to Gaussian (<1m)	70%			
Far Field Fit to Gaussian (∞)	95%			
Polarization	linear			
Linewidth (cm^{-1})				
Standard	1			
Injection Seeded SLM[7]	0.005			

NOTES
1.All specifications at 1064nm and 10Hz repetition rate unless otherwise noted.
2.Average in 8 hours with room temperature variation $\delta T < 3℃$.
3.Full width at half maximum.
4.Full angle for 86.5% of energy.
5.Maximum deviation from beam mean centroid.
6.With respect to external trigger.
7.Injection seeded version reduces energy by 10%.

General characteristics

AC Input	220 VAC $\pm$5% 50-60Hz
Power Consumption	<1.8kW (typical 80mJ at 10Hz)
Operating Conditions	Temperature 10-30℃ Humidity <60%

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