

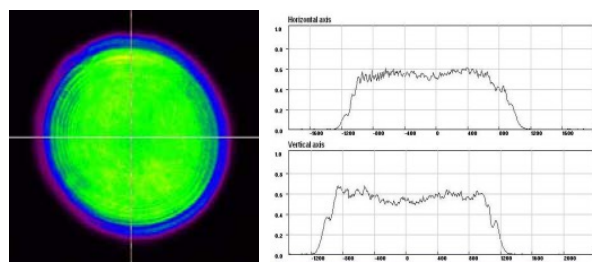
SAGA HP Flashlamp-Pumped Nd:YAG Laser Series

Ultra reliable
User friendly
Best beam quality in
its category



SAGA HP Flash Pump Solid State Laser

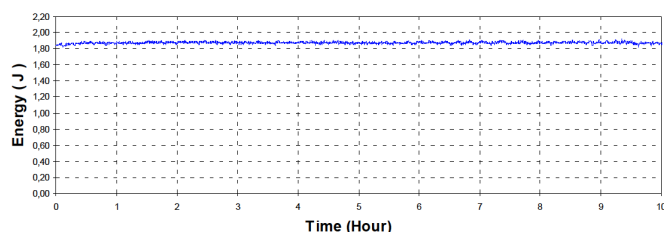
Typical SAGA HP beam profile at 532 nm



Applications

- Pump laser for ultrafast PW & TW systems
- Laser shock peening
- Ideal pump for OPO and dye lasers

Long Term Stability of Saga HP over 10 Hours



Physical Characteristics (L x W x H)

Power supply

32.68 x 23.62 x 25.59 in 83 x 60 x 65 cm

Cooling unit

30.31 x 8.27 x 19.09 in 77 x 21 x 48.5 cm

Laser head

43.70 x 11.34 x 7.40 in 111 x 28.8 x 18.8 cm

Features and Benefits

- Largest installed base (more than 500 units)
- Field proven reliability for more than 20 years
- Meet the highest requirements for Ti:Sa pumping with the market best beam quality
- Hands free operation, user friendly product
- Cost effective solution for industrial applications

Specifications at 532 nm

MODEL	SAGA HP
Repetition Rate (Hz)	5 or 10
Energy per pulse (J)	
-> At 1064 nm	2.2
-> At 532 nm	1.6
Pulse to pulse energy stability (% rms)	<1.2
Pulse duration (ns)	4 to 8
Time jitter (ns rms)	0.5
Typical beam diameter (mm)	15
Divergence (mrad)	<0.5
Beam pointing stability (µrad)	50
Beam spatial profile (near field)	Top hat
Power consumption (kW)	2.4

Utilities and Environment Requirements

Power		
Voltage	208 Vac ± 5%	230 Vac ± 5%
Current	25A	20A
Frequency	60Hz	50Hz
Water		
Flow	> 2.7 Gal/min	> 10 L/min
Static Pressure	30 – 90 psi	2 – 6 bars
Temperature	10 – 25°C	10 – 25°C

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