

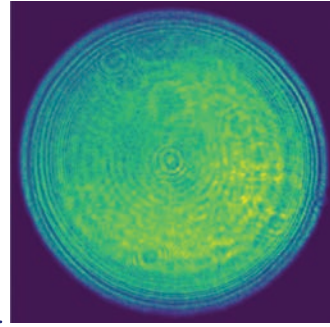
RHEA Flashlamp-Pumped Nd:YAG Laser Series

Compact solution
for high energy
High reliability product



RHEA

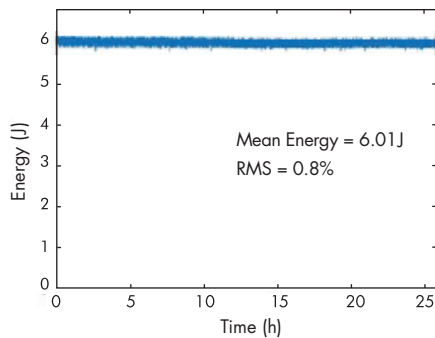
Flash-Pumped Solid State Laser



Applications

- Laser shock peening
- Laser adherence testing
- Laser annealing
- Laser cleaning
- TW & PW amplifiers

Stability of RHEA over 25 hours



Features and Benefits

- Ultra high reliability with qualification for industrial environment
- Ultra compact package for high energy delivery
- Cost effective solution for industrial applications
- Hands free operation
- User friendly product
- High beam quality and stability performance

Physical characteristics

Power supply

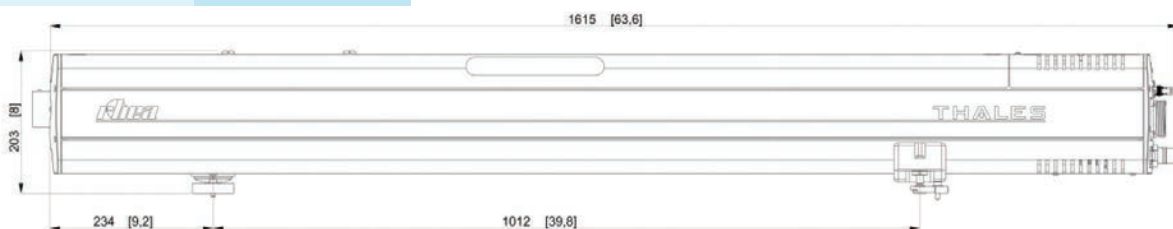
42.6 x 31.5 x 22.1 in 108 x 80 X 56 cm

Cooling unit

18.2 x 26.8 x 17.4 in 46 x 68 x 44 cm

Laser Head

8 x 12.3 x 63.6 in 21 x 31 x 162 cm



Specifications

MODEL	RHEA
Repetition Rate (Hz)	5 or 10
Energy per pulse (J)	
-> At 1064 nm	8.5
-> At 532 nm	5.5
Pulse to pulse energy stability (% rms)	1.2
Pulse duration (ns)	4 to 7
Divergence (mrad)	<1
Beam pointing stability (µrad)	<50

Utilities and environment requirements

Voltage	230 VAC ± 5% Single phase	
Frequency	50 – 60 Hz	
Water Flow	> 4 gal/min	>15 L/min
Static pressure	43.5 – 72 psi	3 – 5 bars
Temperature	10 – 20 °C	

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