



## FREQUENCY DOUBLED, DIODE-PUMPED Nd:YAG LASER MODEL ILM-20MQG

An innovative laser optics design, combined with an industrial-grade power supply, results in an extraordinarily reliable and rugged diode-pumped Nd:YAG laser for industrial use. A totally solid-state laser for trouble-free manufacturing!

- **Efficient diode optical pumping for improved performance and reliability**
- **High power output from small diameter, low divergence beam**
- **Q-switched pulse stability 3% rms up to 30 kHz**
- **Efficient water/water heat exchanger cooling system**
- **Uses intracavity SHG assembly with LBO harmonic generator crystal**
- **"CE Mark" Certified; this is a CDRH Class IV laser product**

Wavelength:	532 nm
Transverse Mode:	Multimode
Beam Diameter, nominal:	2.0 mm
Beam Divergence (full angle), nominal:	2 mRad
Polarization:	Linear, horizontal

### Q-switched Performance:

Frequency (kHz):	5	10*	20	30
Average Power (W):	9.5	10*	8.5	7.0
Pulse Energy (mJ):	1.9	1.0 *	0.4	0.2
Pulse Width (ns), nominal:	175	250*	450	530
Peak Pulse Power (kW):	10.8	4.0*	0.9	0.4

### Mechanical:

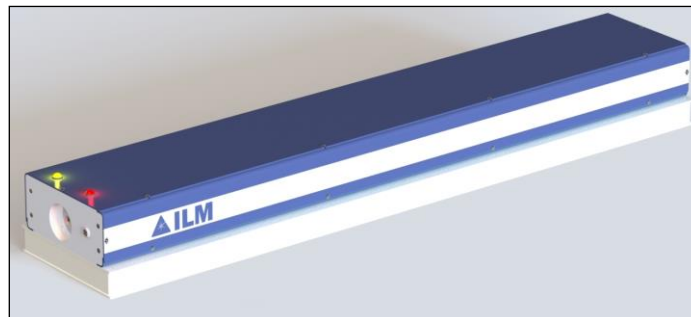
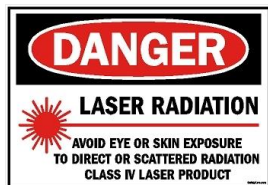
Optical Table Length, standard:	1524 mm
Power Station Dimensions:	876H x 521W x 470D mm

### Electrical Power:

Recommended Service:	220 +/- 10% VAC, 1-phase, 50/60 Hz, 20A
Average Consumption:	2 kW, maximum

### Water:

Internal, water/water cooled:	City water cooled, 8 L/m @ 16° C max temp. Self-contained refrigerated chiller optionally available.
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\*Laser is specified at 10kHz, all other values are typical.

ILM follows a policy of continuous improvement. Specifications are subject to change without notice.