S-SERIES Diode-Pumped Solid State Laser

The S-Series SY50 Diode-Pumped Solid State Laser is configured for high precision, high speed marking. Features include high quality beam performance and low maintenance. It's an economical choice for marking titanium and other high strength alloys and medical implants.

FEATURES

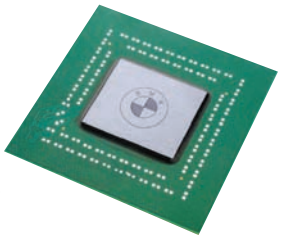
- *Unique, Three Rail Design for Easy Alignment, Increased Power and Thermal Stability*
- *Lightweight, Dust Sealed Rail Cover*
- *Fixed Beam Expander*
- *Safety Shutter, Co-Axial Red Diode Pointer and Emission Light for Simple Operation*

DIMENSIONS

Laser..... 8″ W x 8″ H x 33″ L

Water Chiller System..... 12.6″ W x 23.5″ H x 20.9″ D

Umbilical Length..... 6 Feet [detachable]



SPECIFICATIONS

Compliance .....CDRH, CE, UID
Type ..... Nd: Diode-pumped YAG
Wavelength ..... 1,064 Nm
Average Power.....50 Watts
Mode .....Q-Switched
Q-Switch Frequency ..... 2 to 50 KHz
Marking Speed .....02 to 197 in/sec (.5 to 5000 mm/sec.)
Marking Fields .....Several Available
Electrical.....Single phase, 110V. 60Hz nominal
Total System Power Consumption .....2.2 kW input AC Power
Internal DI Water .....Requires (1.5) gallons, steam distilled
External Cooling Water..... Not required

LASER CONTROLLER SYSTEM FEATURES

- *Self-Contained Remote DI Water System / DI and Particle Filters (No External Chiller Required)*
- *Flow and Temperature Sensors*
- *Keyswitch and E-Stop with Manual Shutter Control*
- *1st Pulse Suppression Circuitry*
- *System PC, Mounted directly in control cabinet*
- *Alternate electrical box for mounting/wiring peripheral components*

LENS CONFIGURATIONS AVAILABLE

Focal Length	Marking Field		Work Clearance	
100mm	*45mm x 45mm*	*(1.8″ x 1.8″)*	*97mm*	*(3.82″)*
160mm	*90mm x 90mm*	*(3.5″ x 3.5″)*	*176mm*	*(6.93″)*
163mm	*110mm x 110mm*	*(4.3″ x 4.3″)*	*185mm*	*(7.28″)*
254mm	*155mm x 155mm*	*(6.1″ x 6.1″)*	*296mm*	*(11.65″)*
** 330mm*	*215mm x 215mm*	*(8.4″ x 8.4″)*	*387mm*	*(15.23″)*
** 420mm*	*275mm x 275mm*	*(10.8″ x 10.8″)*	*493mm*	*(19.40″)*

** Application dependent*

Features DATA MATRIX™ 2-D Code Marking Capability — Meets all Department of Defense UID Requirements

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