LY100
Lamp-Pumped Solid State Laser

For the ultimate in high speed, high quality product identification, the lamp-pumped LY100 is designed for hard surface treatments. It's the powerful, reliable choice for deep engraved to shallow annealed marking on titanium and other high strength alloys, medical implants and hard plastics. The 100LY is designed with serviceability in mind, with its unique straight INVAR Rail Design for easy alignment, increased power and thermal stability, as well as a lightweight, dust sealed rail cover featuring "Hideaway Handles" for easy access. It's compact, convenient caster-mounted combination laser controller/DI water cabinet simplifies system integration, with a slide-out DI water system that makes cooling system maintenance simple and convenient. In addition, the laser controller/DI water cabinet features flow, temperature and DI sensors, keyswitch and E-stop with manual shutter control, as well as first pulse suppression circuitry.

SPECIFICATIONS

Compliance ..... CDRH, CE
Type ..... Nd: Lamp-pumped YAG
Wavelength ..... 1,064 Nm
CW Power 100W
Mode ..... Q-Switched or CW (Continuous Wave)
Q-Switch Frequency ..... 0 to 100 KHz
Marking Speed .....
.02 to 197 in/sec (.5 to 5000 mm/sec.)
Input Power ..... 3 phase/3 wire, 230V, 50-60Hz nominal
Total System Power Consumption ..... 7.5 KVA
Umbilical Length 30.5cm (10FT)
Mounting Weight 43.2kg (95LBS)
Laser Dimensions ..... 142.2(L) x 20.3 (W) x 27.9cm (H)
(56" x 8" x 9")
Laser Controller/DI Water
Supply Cabinet Dimensions ..61.0(W) x 68.6 (H) x 76.2cm (D)
(24" x 27" x 30")
Internal DI Water ..... Requires (5) gallons, steam distilled
External Cooling Water ..... 5 gallons/min. (19 liters/min.)
50° F - 65° F, (10°- 18° C)

Laser Controller/DI Water cabinet

LENS CONFIGURATIONS AVAILABLE

FOCAL LENGTH	MARKING FIELD
100mm	45mm X 45mm (1.8″ X 1.8″)
160mm	90mm X 90mm (3.5″ X 3.5″)
163mm	110mm X 110mm (4.3″ X 4.3″)
254mm	155mm X 155mm (6.1″ X 6.1″)
330mm	215mm X 215mm (8.4″ X 8.4″)
420mm	275mm X 275mm (10.8″ X 10.8″)

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