Laser

e-SolarMark
Laser Marking System

Network-Based CO_2 Laser Marking & Coding

Code in stationary or on-the-fly modes on a wide variety of materials.

- No consumables, low maintenance
- Compact and modular design
- Choose from three interface selections
- Versatile data communication options
- 21 CFR Part 11 compliant

The new e-SolarMark CO_2 laser marking systems are available for standard and washdown applications. With no consumables and an average life of 100,000 working hours, these systems provide efficient coding of alphanumeric texts, dates, timers, serial numbers, bar codes, 2D codes and graphics on a wide range of materials. Right out of the box, Solaris Laser systems can be setup for both stationary and on-the-fly installations.

CO_2 lasers can be used to mark materials such as cardboard, coated metals, glass leather, paper, plastics, and wood. Applications for the new e-SolarMark include snackfood, beverage containers, cartons, candy and others. As a standard feature the new systems have the ability to turn text/codes 90 degrees and print horizontally or vertically anywhere within the entire marking area.

Matthews INTERNATIONAL
BRAND SOLUTIONS

Matthews Marking Products

Ink-Jet Printing • Contact Printing • Indenting • Etching • Inks • Integrated Solutions

Visit us on the internet to download complete specs, dimensional drawings, and much more. www.marshmicrosystems.com

Technical Specs e-SolarMark

e-SolarMark CO_2		
Laser output power*	**10W**	**30W**
Electrical requirements	230V 50Hz/115V 60Hz, 1PH	230V 50Hz/115V 60Hz, 1PH
Power consumption	450W	700W
Cooling	Air: at ambient temperature 41-104° F (5-40° C) Up to 100% of laser duty cycle Water: at ambient temperature 104-113° F (40-45° C) Or in dirty, dusty, humid environment	
Environment	Ambient temperature 104-113° F (5-45° C) Humidity up to 80% non-condensing	
Enclosure type	IP 50, NEMA 12 / IP66, NEMA 4 (on request)	
Dimensions and weight	Control Unit: 13.2" L x 14.2" W x 6.3" H (335 L x 360 W x 160 H mm) 18 lb. (8 kg) Marking Unit: 32.2" L x 5.5" W x 5.5" H (812 L x 140 W x 140 H mm) 29 lb. (13 kg)	Control Unit: 13.2" L x 14.2" W x 6.3" H (335 L x 4360 W x 160 H mm) 18 lb. (8 kg) Marking Unit: 28.5" L x 5.5" W x 5.5" H (726 L x 140 W x 140 H mm) 29 lb. (13 kg)

*Sealed CO_2 laser tube, laser gas lifetime - 30,000 hours average.

MARKING SPECIFICATIONS

Marking speed	1000 characters/sec Character height 2mm, lens and material dependent				
Lens type	Flat field (F-Theta) lens				
	LF2	LF3	LF4	LF5	LF6
Marking field in mm	50 x 50	80 x 80	100 x 100	120 x 120	200 x 200

OPTIONS

- Touchscreen GUI control unit interface for local job creation and modification
- Alphanumeric keyboard control unit interface for local job modification
- IP 66 / NEMA 4 enclosure
- Scanning head mounting extention modules
- Product detector and shaft encoder
- Fumes / dust extractor (with active carbon filter)
- Chiller for water-cooled systems

COMMUNICATION

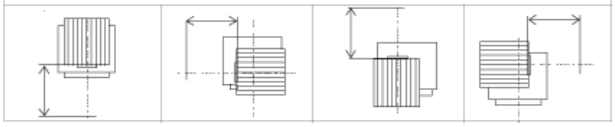
- USB/RS232/Ethernet 10 Base T
- Shaft encoder input (recommended 8196 pulses per marking field length**)
- Product detector input: NPN/PNP - 24V sensor
- Input/output connector for: system interlocks, remote start/stop, ready, marking, fault signals, and additional key switch connection.
- SolMark II job edition software available for Windows 9x, NT, 2000, ME, XP

**100 mm for LF4 lens

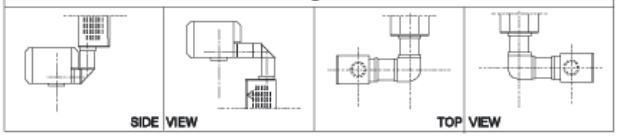
LANGUAGES

- Different language versions available: English, Chinese, French, German, Spanish, Italian, Dutch, Polish, Swedish, and Portuguese

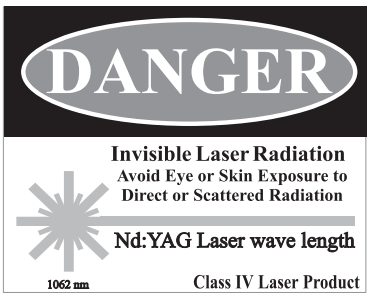
Marking Head Orientation



90 Beam Bending Modules



CE and CDRH Compliant



Matthews Marking Products continually improves products. The right, therefore, is reserved to alter the design and/or specifications without giving prior notice

Matthews Marking Products

Matthews INTERNATIONAL BRAND SOLUTIONS

Marsh Micro Systems, Inc.
1084 Duncan Ave.
Chattanooga, TN 37404

T: 423.629.6245
F: 423.624.7019

www.marshmicrosystems.com

SOLARIS LASER S.A.