# eSolarMark Fiber

Fiber Laser Coding System

Fiber Laser Coding System for Marking Metals, Films, and Plastics

The Matthews eSolarMark Fiber laser coding system is designed to provide contrasting marks onto a variety of metals and plastics, including HDPE, OPP film, ABS, stainless steel, and titanium. Suitable for a variety of industries, the fiber laser is ideal for food and beverage, pharmaceutical, automotive, and building applications.

Matthews laser coding systems provide many interface options to connect to remote devices such as PLC's, packaging equipment, and material handling equipment. Our lasers have the greatest focal distance, allowing the laser to be mounted farther away from production lines. There are two control interface models (network or 10.4" color touch screen) and Matthews provides free message design software with every laser system purchased.
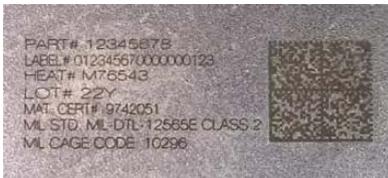
• High speed, vector quality coding of metalized materials
• Optional continuous or pulse mode performance
• Elimination of solvent and ink consumables

Matthews Marking Systems

Ink-Jet Printing | Contact Printing | Indenting | Etching | Laser | Inks | Integrated Solutions | Software

MARSH MICRO SYSTEMS

Matthews™
BRAND SOLUTIONS

Technical Specs eSolarMark Light

eSolarMark Fiber	1.06 µm Wavelength	
	Continuous Mode	Pulse Mode
Laser Output Power	10W, 20W	10W, 20W, 30W, 50W
Electrical Requirements	115V 60Hz/230V 50Hz, Single Phase	115V 60Hz/230V 50Hz, Single Phase
Power Consumption	10W = 400W/ 20W = 1600W	400W
Cooling	Integrated fans: at ambient temperature 41º - 104º F (5º - 40º C) Up to 100% of laser duty cycle	Integrated fans: at ambient temperature 41º - 104º F (5º - 40º C) Up to 100% of laser duty cycle
Operating Environment	Ambient temperature 41º - 104º F (5 - 40º C) Humidity up to 80% non-condensing	Ambient temperature 41º - 104º F (5º - 40º C) Humidity up to 80% non-condensing
Enclosure Type	IP52, NEMA 12	IP52, NEMA 12
Dimensions and Weight	Control Unit: 15" L x 16.5" W x 7.3" H (380 mm L x 420 mm W x 185 mm H) 33 lb. (15 kg) Marking Unit: 12.3" L x 4.3" W x 4.8" H (312 mm L x 108 mm W x 122 mm H) 6.6 lb. (3 kg)	Control Unit: 15" L x 16.5" W x 7.3" H (380 mm L x 420 mm W x 185 mm H) 33 lb. (15 kg) Marking Unit: 19.5" L x 4.3" W x 4.8" H (495 mm L x 108 mm W x 122 mm H) 11 lb. (5 kg)

Communication

- USB/RS232/Ethernet 10 Base T
- Input/output connector for: system interlocks, remote start/stop, ready, marking, status signals, and remote key switch connection.
- SolMark II job edition software available for Windows XP, Windows 7

Languages

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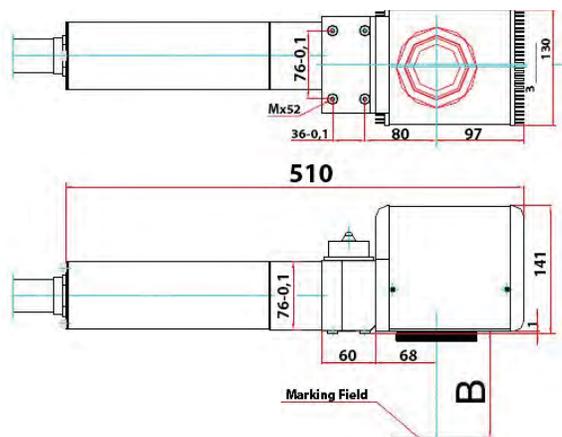
Marking Specifications

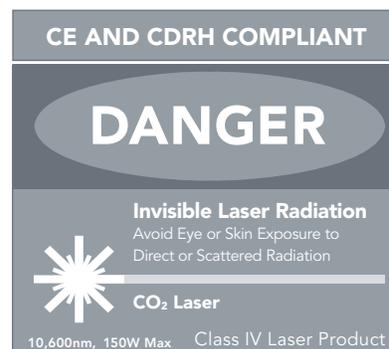| Lens type	F-Theta		
Marking Field (in mm)	LF3	LF4	LF6	LF12
	70 x 70	100 x 100	150 x 150	300 x 300

Options

- Red laser pointer for marking position preview
- Product detector and shaft encoder
- Fumes/dust extractor (with active carbon & HEPA filter)
- Multiple user interface options (network, touch screen)
- Custom and standard enclosures

CE AND CDRH COMPLIANT

DANGER

Invisible Laser Radiation
Avoid Eye or Skin Exposure to
Direct or Scattered Radiation

CO₂ Laser

10,600nm, 150W Max   Class IV Laser Product

DIMENSIONS (All dimensions specified in mm's unless otherwise noted)

Dimensions for 10W laser

Matthews Marking Systems

MARSH MICRO SYSTEMS

SOLARIS S.A. LASER