e-SolarMark FL

Laser Marking/Coding System on foils, plastics and metals

Foils and plastics

100 000 Maintenace free Working hours *

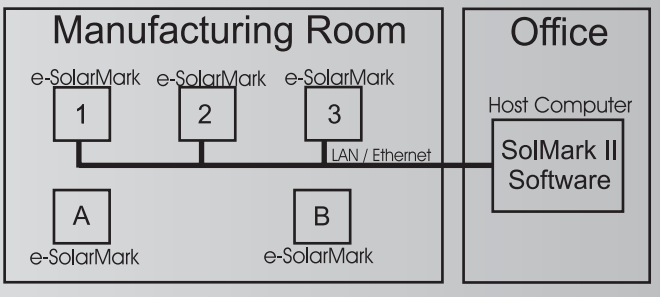
* No consumables: typical laser life time 100 000 working hours

* Minimal costs of operation: integrated air-cooling, 1-ph power supply, low power consumption

- Revolutionary solution for permanent coding on packaging foils, various plastic / metal products and packages
- Vector-quality code in Stationary and “On the Fly” marking / coding
- Coding of alphanumerical texts / dates / timers, serial numbers, barcodes, 2D codes and graphics
- Compact and modular design, high integration flexibility due to number of options

- Internal software on real-time operating system
- Local / Remote job choice / modification / creation
- Unauthorized access protection
- Easy connection to the network
- Build-in touch screen panel for local job edition (option)
- On-line data exchange via: network (LAN/Ethernet) serial (RS232) and USB

Network (1, 2, 3 ...) and Autonomic (A, B, ...) mode of operation



Metals

- Different languages versions: English, Chinese, French, German, Spanish, Italian, Dutch, Polish, Swedish and Portuguese
- System available as OEM version

21 CFR Part 11 compliant

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Technical Specifications

Laser:	20W
Wavelength:	1062nm
Life time:	100 000 working hours average
Electrical requirements:	230V 50Hz / 115V 60Hz, 1PH
Power consumption:	400W
Cooling:	Air, integrated
Ambient temperature:	5-40°C (40-105°F); Suggested 20-25°C (68-77°F)
Enclosure Type::	IP 52 / NEMA 12

Dimensions	**Control Unit**	**Marking Unit**
H x W x D mm	185x420x380	122x108x495
H x W x D in.	7.3x16.5x15.0	4.8x4.2x19.5
Weight	15 kg (33 lb.)	5 kg (11 lb.)

Communication

- USB / RS232 / Ethernet 10 Base T
- Shaft encoder input (recommended encoder resolution: 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
- SolMark II job edition software available for: Windows 9x, NT, 2000, ME, XP

Marking Specification			
Marking speed	**1600 characters/sec** Characters height 2mm, Lens and Material Dependent		
Lens type	F-Theta		
	LF3	**LF4**	**LF6**
Marking field (mm)	70x70	100x100	150x150

OPTIONAL CONFIGURATION:

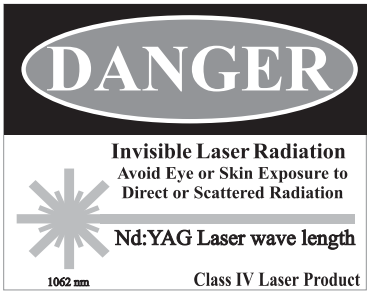
- Red laser pointer for marking position preview
- System setting for printing on highly sensitive plastic materials (e.g. foils)
- Touch Screen GUI Control Unit interface for local job creation and modification
- Alphanumeric Keyboard Control Unit interface for local job modification

OPTIONAL EQUIPMENT:

- Fumes / Dust Extractor (with Active Carbon filter)
- Product Detector and Shaft Encoder

Specifications are subject to change without notice as products are continually improved

CE and **CDRH** compliant

SOLARIS LASER S.A.

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