Packaging Samples

e-SolarMark

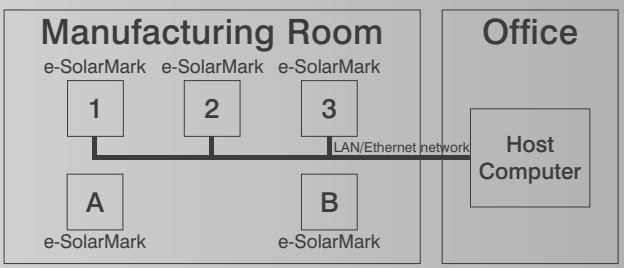
Network-based CO_2 Laser Marking/Coding System

- Vector-quality code at high line speed
- Both stationary and “On the Fly” marking/coding
- Three types of Control Unit interface to choose:
  - network (Standard)
  - alphanumeric keyboard (Option)
  - touch screen GUI (Option)

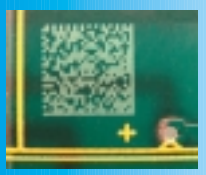
- Coding on wide variety of materials: paper, cardboard, foils,coated metals, plastics, wood, glass and many others
- Permanent and flexible coding of alphanumeric texts / dates / timers, serial numbers, barcodes, 2D codes and graphics on the products
- Up to 250 messages storage capaility (110 kB average message size)

- Internal software on real-time operating system
- Local / Remote job choice / modification / creation
- Easy connection to the network
- Intuitive system operation
- Build-in touch screen panel for local job edition (option)
- User-friendly Graphical Editor SolMark II for external job preparation
- On-line data exchange via: network (LAN/Ethernet), and serial (RS232)

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



Industrial Samples



- Integration friendly, compact design
- High flexibility of system due to large number of options
- Unauthorized access protection

No PC Required

- Shock / Temperature Tested
- Low operation cost / No maintenance / No consumables
- OEM versions available

e-SolarMark

Technical Specifications

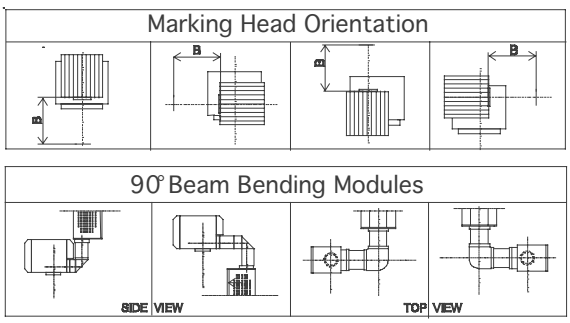
Laser Output Power	**10W**	**30W**
	Sealed CO2 laser tube, laser gas lifetime – 30,000 hours average	
Electrical Requirements	230V 50Hz / 115V 60Hz, 1PH	230V 50Hz / 115V 60Hz, 1PH
Power Consumption	450W	700W
Marking Head		
Dimensions LxHxW	826 x 150 x 150 mm (33 x 6 x 6 in.)	766 x 150 x 150 mm (30 x 6 x 6 in.)
Weight	15 kg (33 lb.)	15 kg (33 lb.)
Control Unit		
Dimensions HxWxD	150 x 350 x 327 mm (6 x 13.8 x 13 in.)	150 x 350 x 327 mm (6 x 13.8 x 13 in.)
Weight	8 kg (18 lb.)	8 kg (18 lb.)
Cooling	**Air**: at ambient temperature 5-40°C (up to 100% of laser duty cycle)	
	Water: at ambient temperature 40-45°C or in dirty/dusty/humid environment	
Environment	Ambient temperature 5-45°C (40-115°F), Humidity up to 80% non-condensing	
Enclosure type	IP50, NEMA 12	

Communication

- RS232 / ECP / Ethernet 10 Base T
- Shaft encoder input (recommended resolution of encoder: 8196 pulses / 100mm for LF4 lens)
- Product detector input: NPN / PNP - 24 V Sensor
- Input / Output connector for: systems interlocks; remote Start/Stop, Ready/Marking, Fault Signals; additional key switch connection

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**	**LF8**
Marking field (mm)	50 x 50	80 x 80	100 x 100	120 x120	200 x 200
Minimum line width (mm)	0,10	0,15	0,18	0,21	0,35
Resolution (mm)	0,012	0,019	0,024	0,029	0,048
Working Distance (mm) [B]	104	127	183	213	389

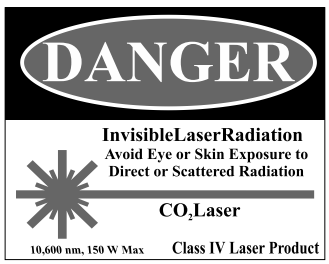
Options



- Touch Screen GUI Control Unit interface for local job creation and modification
- Alphanumeric Keyboard Control Unit interface for local job modification
- Scanning Head Mounting Extension Modules
- Product Detector and Shaft Encoder
- Language Version of Software on Request
- Chiller for Water-Cooled Systems
- Fumes / Dust Extractor (with Active Carbon filter)
- SolMark II software available for: Windows 9x, NT, 2000, ME, XP

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

CE and CDRH compliant



SOLARIS S.A. LASER

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