e-SolarMark + FL

High Speed Fiber Laser Marking and Coding system!

The **latest** generation of well known
vector marking and coding e-SolarMark FL systems from Solaris

e-SolarMark + FL

e-SolarMark + FL is the Latest Generation of vector marking and coding systems with fiber laser inside

The high speed and quality solution for permanent laser codes of alphanumeric texts / dates / timers, serial numbers, barcodes, 2D codes and graphics on products and packages.

e-SolarMark + FL fiber laser system is an ideal tool for metals, plastics and other hard to mark materials at various production line speeds for all packaging and industrial sectors.

Designed and manufactured by Solaris Laser, industry leader in high quality laser systems for over 25 years.

Legendary life time of the fiber laser source in combination with industrial experience of Solaris Laser, create maintenance free, long lasting reliable solution.

e-SolarMark + FL ... is Easy to Run

The innovative Solaris Laser interface makes possible to operate the system simply, with assistance of new, user friendly 15-inch touch screen control panel or remotely from anywhere.

Multilanguage quick steps software allows easy access to preview and edit functions. Intuitive installation wizard helps in fast machine set up.

System designed for easy implementation into new or existing production lines. Compact size makes the system convenient to install.

e-SolarMark + FL ... is Flexible

With a choice of control panel versions, different laser power sources and printing areas, **e-SolarMark + FL** offers the right configuration for various market demands.

I/O signals enables control and diagnose the system remotely by local production line supervisors or external web servers.

Multiple printing heads can now be operated under one master control panel.

e-SolarMark + FL ... offers Great Performance

The **e-SolarMark + FL** includes a very powerful Solaris Laser high speed scanning head technology **enhanced DIGITAL (eDIGITAL)**. With optimised optical parameters and superb software performace, the system is the fastest in its class, up to 40% faster than market standards.

... for metals, plastics and packaging!

... Automotive

Reliable performance, together with small size and simplicity of integration, make the **e-SolarMark+FL** ideal solution for demanding markings on metal and plastic parts in Automotive industry. Complaint with ISO 13849 for the highest safety standards.

... Tools

e-SolarMark+FL produces multiple lines of print in any orientation, with 2D datamatrix codes and graphics on steel tools, carbide inserts and virtually on any metal surface appearing in tool's construction.

... Electric/Electronic

e-SolarMark + FL offers high quality marks and codes for Electric and Electronic Industry sectors. All plastics and metal components including PCB surfaces can be marked successfully at a high speed of the production lines. Dynamic focus module helps to print on non-flat and different height product surfaces.

... Construction

e-SolarMark + FL laser performs marks and codes on any materials applied in Construction industry. Products such as PVC / PE pipes, plastic window profiles, flooring materials, heaters can be printed with **e-SolarMark + FL** at highest production speeds. High beam quality allows deep engraving in Aluminum or steel profiles, as well.

... Food

e-SolarMark+FL delivers an excellent laser coding solution for wide variety of food flexible packages, such as confectionery, snack foods, dairy, frozen and dried process foods. Ideal tool for aluminum & steel can's marking. Applied also for bread closing tags and bottles plastic & metal closures.

... Cosmetics/Chemicals

Laser printing with **e-SolarMark+FL** complements the highest standards of product design. Laser coding is the ideal solution for contrast, flexible identification on aluminum tubes, PE & HDPE bottles and other materials where print quality is important.
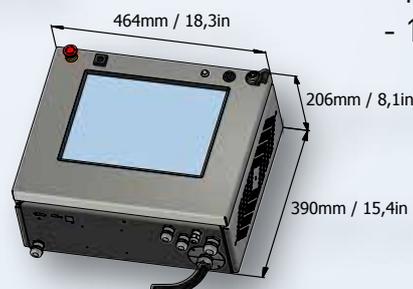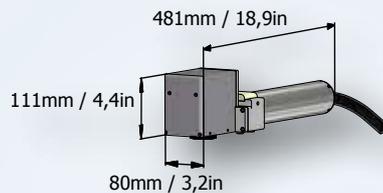
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High Speed Fiber Laser Marking and Coding system!

Technical Specifications

Laser type	fiber active q-switched, Power class 10W to 100W
Marking Field	From 50x50mm / 4x4" / up to 400x400mm / 16x16" /
Fonts	Multilanguage, including Unicode
Software	Job editor for Windows OS Web interface for system configuration and control
User Interfaces	Multilanguage 15" touch screen with user friendly, intuitive interface for Preview, Edit & New jobs creation and System setup
Communication	RS232 / USB / Ethernet
Electrical requirements	115V / 230V AC, 50/60HZ, 1PH
I/O signals for installation	Shaft encoder, NPN/PNP Product detector inputs Remote interlock, Key switch, Safety shutter control Fume extractor, Compresed air control System ready, Marking, Fault outputs 15 configurable user Inputs & Outputs
Cooling	Integrated air cooling with dust protection
Ambient temperature	10-40°C / 50-104°F, Suggested 15-30°C / 69-86°F
Humidity	up to 90%, non-condensing
Safety	class 4, according to EN 60825-1 class 4 ready, according to ISO 13849
Weight	Control unit 15kg / 33 lb / - 18 kg / 39 lb / Marking unit 7 kg / 15lb / - 10 kg / 22lb /
Dimensions	

481mm / 18,9in
111mm / 4,4in
80mm / 3,2in

464mm / 18,3in
206mm / 8,1in
390mm / 15,4in

Optional Configuration
- compressed air cooling
- straight beam output
- dynamic focus module
- remote preventive diagnostics
- red laser print position preview
- 19" control unit cabinet

TÜVRheinland
CERT
ISO 9001

CE and CDRH compliant

DANGER
INVISIBLE LASER RADIATION –
AVOID EYE OR SKIN EXPOSURE
TO DIRECT OR SCATTERED
RADIATION
CO₂ LASER
50W CW MAX.
CLASS IV
LASER DEVICE
YLA00 nm, 100W Max
CLASS IV Laser Product

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LASER
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LIA
EDUCATION

Solaris Laser S.A.
LIA member since 1996