LASERmark LM-S CO₂ laser marker

■ **LASER***mark* series "S" is CO₂ laser marker designed to be integrated into production lines, automatic production machines and other OEM industrial applications.

The equipment comprises of 19 inch cabinet containing control electronics and PC. The second part is formed by the actual laser and a scanning head in heavy duty execution and an enhanced cover. As a stand-alone unit is installed water-air cooling (laser output > 40W) and fume extractor. The laser is interconnected with the cabinet by a single integrated cable.

It is assumed that the "S" version will be equipped with a suitable safety cover. The installed user interface is designed to be connected to and communicate with a master control system.





Cabinet with electronics. Situated on top of the cabinet are an LCD display and a keyboard.

Available in output versions ranging from 30W to 200W

Optional marking field of 60 x 60 mm to 160 x 160 mm

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- Scanning head which can be rotated around the laser's axis the marking filed can be tilted
- The laser's compact size allows it to be easily integrated into other equipment
- Increased resistance against vibrations, penetration by dust and aerosol, maintenace-free
- Software Windows environment, extensive set of functions, user support
- Option of connecting the equipment to a master control system autonomous operation without LCD and keyboard

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Technical data of laser

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Laser Type: Wavelength: Resonator: Power: Power: Power control: Frequency:	CO ₂ , quasi continuous 10,57–10,63 μ m Sealed tube RF excited Options 30, (40, 60, 100, 200 W)* PWM, 0 ÷ 100 % 5 kHz fixed, (programmable 0 ÷ 25 kHz)*	Focusing optics Type: Marking field: Beam expander: Spot size:	"Near" F-theta lens, F-theta lens* 60x60 mm* 90x90 mm 120x120 mm* 160x160 mm* 6x Typically 0,11 mm 0,09 ÷ 0,35mm depending on optics configuration
Scanning Head Principle: Type: Marking speed: Resolution: Repetition accuracy:	Galvanometric beam deflection in X and Y axes Fast scanners 0–4000 mm/s 2 µm 25 µm	Cooling Air: Water cooling*:	Laser power ≤ 40 W, direct air cooling by fans Laser power ≥ 30 W, closed water circle, external cooling unit water- air type
Technical data LASER <i>mark</i> version "S"			
System control Internal: Master control computer: Monitor: Network: Software Operating system: Design software: Control software:	Control system checks and sets all equipment operation parameters PC, Intel Core i3 @ 3,1 GHz, 4 GB RAM, USB, SSD 80 GB LCD displej, 19" Ethernet 1000 Windows 7 Corel Draw WMark – the marking control program, Windows environment, full setting of all marking	Laser and head Cover: Laser dimensions, weight: Scan head dimensions: Working orientation: Head connection length: Connection type: Mechanical connection: Cabinet Power supply: Input: Cover: Dimensions:	IP54 537x191x200 [lxhxw], 24 kg 162x156x160 [lxhxw] Horizontal or vertical 3 m*, 5 m, 10 m* Polyamide, steel cord* Al profile Bosch type 180x45/10 using "T" groove 100 - 240 V, 50/60 Hz 700 W ÷ 1800 W, depending on laser type and type of cooling IP40 318x577x577 mm [lxhxw]
	parameters comprehensive set of commands and functions	Weight: Operating conditions:	41 kg Temperature 15 °C ÷ 35 °C non-condensing humidity
Selected accessories*			
Connection Logical: Serial: Axis control:	Galvanized insulated input and output signals for external start- up and control RS232, communication protocol. The laser is fully controlled by a master system Step motor, DC motor with optical encoder	Exhaust system Exhauster Type1: Exhauster Type 2: Other accessories	180 m ³ /h, regulation 230 V, 1,3 kW 400 m ³ /h, no regulation 380 V, 3,4 kW Refer to accessory product brochures and technical data
* alternative or optional accessories			



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