

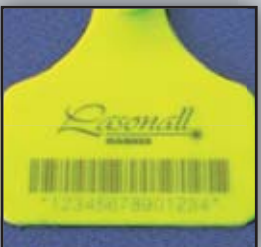


Lasonall eco OEM

Laser Marking Solutions, both in terms of quality and technology, offer the highest level of advantages in direct Industrial Product Marking. Ease of use, speed and flexibility are combined into one product that can work over a wide range of materials and surfaces marking user-defined texts, logos, barcode and 2D codes.

Features

- Highest Beam Quality $M^2 < 1.2$
- Compact Industrial Design
- Easy Integration in Production Lines
- Very high Marking Speed
- No external Chiller required
- Reduced Operation costs
- Maintenance free up to 10,000 working hours



The LasOnAll 1 eco is the latest development in our diode pumped solid-state laser family. Based on the highly efficient longitudinal pumped design, this innovative system provides the latest benefits in laser technology.

The compact design of the Laser Resonator and Scanner Head in combination with up-to-date electronics and optics characterize this advanced laser marking system and sets new standards for laser marking companies to meet. Laser marking enables a direct and permanent marking of parts and work pieces consisting of a variety of materials and surfaces including metals, plastics and ceramics.

Operators are supported by an intuitive and easy to use laser software package – LasOnAll Creator Pro 4. This graphical Windows® based software offers a complete overview of all current marking objects as well as of the laser settings. Extended functions can be programmed through the use of a Visual Basic script interface which provides maximum programming flexibility.

The expected lifetime of the diode pack is over 10,000 hours, providing a nearly maintenance free operation over an extended service period.

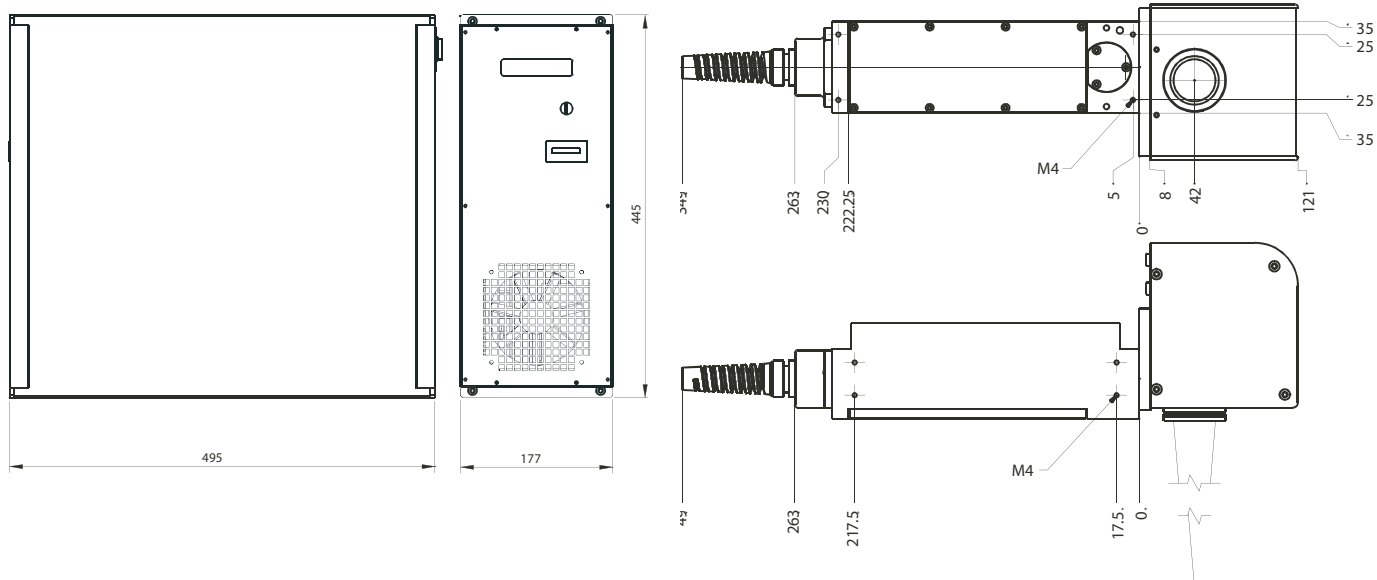


Trend Marking Systems

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Technical Specifications



Laser Marking System		LasOnAll 1 eco	
Laser Medium	Nd:YAG $\lambda=1064$ nm, diode pumped, passive q-switched		
Nominal Power (CW)	9 W $\pm 5\%$ (@ laser aperture)		
Mode / Beam quality	TEM ₀₀ M ² < 1.2 (@ 100% Power)		
Modulation	≈ 25 kHz		
Pulse width	≈ 9 ns		
Peak Power	Max. 28 kW		
Laser Pumping	Diode Laser $\lambda=808$ nm via optical glass fiber cable inject (Class 4)		
Aiming Beam (positioning laser)	Red Laser Diode $\lambda=635$ nm, 3 mW (Class 2M)		
Laser safety class	Class 4		
Marking Head		Miniscanner	
Marking speed	Up to 400 Character/s (with single line font Roman-S h=1.2 mm)		
F-Theta lenses	63	160 (Standard)	
Marking field	35 x 35 mm	100 x 100 mm	
Focal distance	73 \pm 2 mm	185 \pm 5 mm	
Min. spot diameter	20 μ m	50 μ m	
Measure and Weight			
Diode Rack	180 x 540 x 450 mm (19 Kg)		
Resonator with Scanner Head (Miniscanner)	117 x 470 x 138 mm (4.2 Kg)		
Operation and Connection Facts			
Supply	90 to 240 V, AC \sim 50/60 Hz, 16 A (1 plug design)		
Power Consumption	< 400 W		
Heat Exchanger	Air to Air (integrated, no external Chiller required; with thermoelectric elements)		
Heat Load	80 W (273 btu/h)		
Operation Temperature	-15 to +35 $^{\circ}$ C		
Relative Humidity	10 to 80 % (non condensing)		
Max. operation height over NN	1500 m		
Vibration on System	Not allowed		
Max. Acceleration	0.5 G		
System is subject to the regulations	VDE0837(IEC 825), VDE0100, VFE00105, EN292, EN60825, EN60204, UVV VBG93		

All statements about scope of supply, design and technical specification are based on the knowledge as of date of print. Specifications subject to change without notice.



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