

MPERIA[®] Laser

CO2 LASER SYSTEMS POWERED BY MPERIA[®]

Unmatched Performance, Reliability, and Sustainability



CONSISTENT, RELIABLE MARKING FOR YOUR PRODUCTION LINE. Clear, sharp, and permanent marking at high speeds improves uptime in the most demanding environments while advancing sustainability goals with a consumable-free system.

MPERIA® CO2 lasers offer incredibly crisp, permanent marks on your coated cardboard, foils, films, plastics (PET/LPDE/HPDE), glass, PVC, and metals. Modularity and flexible options allows the laser to adapt to your environment, and proprietary VCS ensures optimal mark quality even with production line vibration.

High Performance Coding

- + 99.9% uptime
- + No consumables to replace
- + Minimal maintenance to perform



Unmatched Performance

- + Laser sharp marking with VCS (Vibration Correction System)
- + Unparalleled precision and permanency regardless of handling
- + Sustainable



True Scalability

- + Easily grow from one MPERIA® CO2 Laser on your line to additional MPERIA® Lasers on additional lines all driven by one controller
- + Seamlessly integrate print verification and validation without expensive middleware
- + Prevent integration headaches and complexity with a single interface controlling your MPERIA® Lasers and 3rd party coding technologies



Introducing MPERIA®, A Truly Universal Controller

- + Eliminate human error and rework; message and code automation all handled through an intuitive interface
- + Grows with your business; whether adding more production lines or multiple plant locations
- + Reduce complexity by removing unneeded middleware and 3rd party providers
- + Achieve next level productivity; seamlessly connect to your business systems



MPERIA® CO2 LASERS

MPERIA® CO2 Lasers meet your low-and-high speed, permanent marking requirements offering a choice of wattages and IP ratings that suit your production environment.



MPERIA® Laser 10/30W SD



MPERIA® Laser 10/30W DE

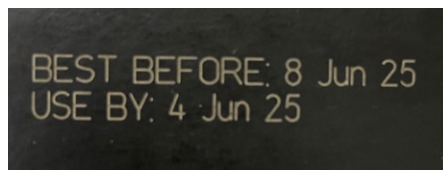


MPERIA® Laser 10/30W WD

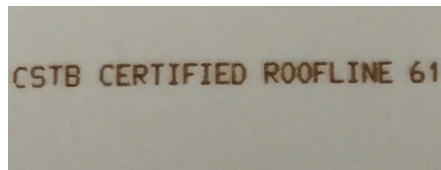


MPERIA® Laser 80W SD, DE, WD

MPERIA CO2 Laser Advantage: The Unmistakable Edge



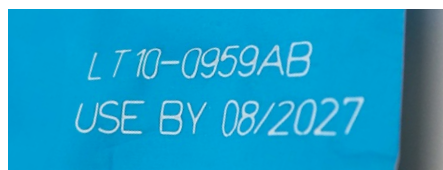
Coated cardboard mark



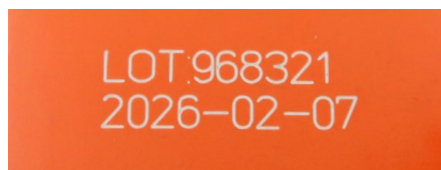
Extruded PVC mark



Glass mark



Multi layer foil mark



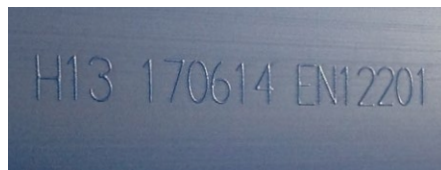
Inked paper board mark



Silicone coated PVC mark



PET bottle mark



Extrusion mark on HDPE



Plastic bottle mark

MPERIA® Laser Specifications

POWER	10 WATT (STANDARD)	30 WATT (STANDARD)	10/30 WATT (IP54/IP65)		80 WATT (IP43/IP54/IP65)	
CONFIGURABLE	No		Yes		Yes	
WAVELENGTH						
10.6 μM	Standard		Standard	Optional	Optional	
9.3 μM	Not available		Not available	Optional	Optional	
MAIN SUPPLY	115v/230v, 50/60 hz		115v–240v, 50/60 hz		110/240 V AC, 50/60 hz	
	(1 Phase + N) 300 VA	(1 Phase + N) 600 VA			(1 Phase + N) 1900 VA	
DIMENSIONS (AxBxC)	743x216x176 mm		740x241x189 mm		202x650x525 mm (SE, DE), 350x243x1105 mm (WD W/O ELBOW)	
WEIGHT	Net weight: 10 kgs Gross weight: 12 kgs	Net weight: 18,5 kgs Gross weight: 21 kgs	Net weight: 25 kgs Gross weight: 28 kgs		Net weight: 28 kg (SE, DE), 70 kg (WD) Gross weight: 30 kg (SE, DE), 72 kg (WD)	
SYSTEM	Laser, scanners, power supply units, control system		electronics & CPU in the laser		CO2 Sealed Tube and Laser Supply Unit with Umbilical	
MARKING FIELD	Field size: 60x60 mm (2.36x2.36 in), Working distance: 95 mm, Built in 90° marking		40x40 mm	200x200 mm	40x40 mm	200x200 mm
			60x60 mm	250x250 mm	60x60 mm	250x250 mm
			75x75 mm	400x400 mm	75x75 mm	320x320 mm
			100x100 mm	500x500 mm	100x100 mm	500x500 mm
			150x150 mm		150x150 mm	
MARKING HEAD	Co2 sealed laser tube, RF technology					
USER INTERFACE	MPERIA® Controller 8", 12", 15" IP65					
ACCESSORIES/ OPTIONS	Photocell Kit, Photocell Encoder Kit, Alarm Kit, Fume Extractor, Safety Guard Protection, Floor Mounting Stand, *Diode Pointer (only configurable lasers)					
APPLICABLE CERTIFICATIONS			CE, FCC, QPS			
ENVIRONMENTAL CONDITIONS	10° C (50° F) to 40° C (104° F) external temperature, Relative humidity <95%, non-condensing, Vibration-free area					