LaserMark® 950/960 Series

Mask-Based Pulsed CO_2 Laser Marking Systems

Reliable, fast, on-the-fly marking and coding of electronics components and consumer product packaging.

- Eliminates inks and other high cost consumables
- Fast “on-the-fly” marking of moving parts
- Permanent, multi-character marks applied in a single pulse
- Reliable, proven fourth generation product with solid-state switching for low cost of ownership
- Easy to integrate

GSI Lumonics

LaserMark® Means Marking and Coding

Move away from ink-based marking, with its high consumables costs, messy, environmentally-unfriendly chemicals, and non-permanent characteristics. GSI Lumonics' *LaserMark*® 950 and 960 Series provide a fast, reliable means of applying high-quality permanent marks, such as date and batch codes, to consumer product packages and electronic components. This can be done "on-the-fly," without mark smearing or degradation at high throughput onto inked papers and cards, foils, painted or anodized metals, glass, and many types of plastics.

Mask-Based Marking

LaserMark lasers operate on a mask-based principle – similar to that of a slide projector. The mark is defined by an etched metal mask, which is illuminated by a large-area infrared laser pulse from the *LaserMark* laser. The mask is imaged with a lens onto the target product so that its pattern is permanently marked onto the surface of the product. Since this happens almost instantaneously (a few microseconds), motion of the part has no effect on mark quality.

For applications involving product serialization or other frequent mark changes, automated mask changers are available.

Efficiency and Reliability Assured

The *LaserMark* series provides ease of operation, extreme reliability, and high uptime in production environments. Solid-state SSM modulators and ultra-low gas flow ensure minimal consumable and maintenance costs. The *LaserMark* 960SSM series is sealed to NEMA 12 standards for general purpose applications. For more demanding environments, the *LaserMark* 950SSM series offers NEMA 4 compatibility.

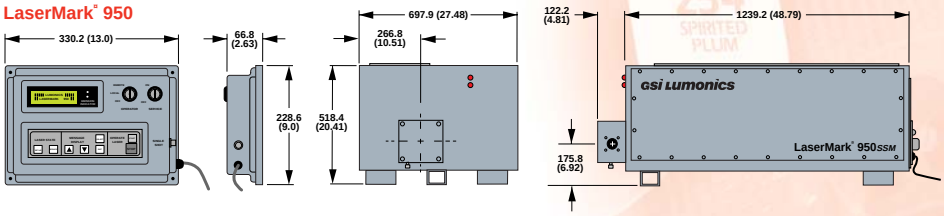
The unique features of the *LaserMark* series have established it as the marking and coding system of choice for many customers in the food and beverage packaging, cosmetic, pharmaceutical, and electronics industries.

Specifications

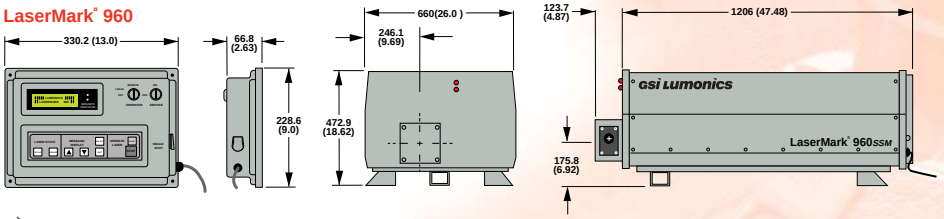
	950	960
Sealing Standard	IEC 529 (IP66), NEMA 4	NEMA 12
High Voltage Switch	***SSM*** - Solid State Modulator	
Electrical Standards	IEC 204:EN 60204	
Weight	188kg (414 lbs) with remote	181kg (398 lbs) with remote
Laser Gas Mix	LaserMark V commercial laser premix	
Voltage Options	100V, 115V, 200V, 220V, 230V, 240V 50/60 Hz, 2.0kVA, single phase	
EMI	EN50081-2; EN 50082-1:FCC Part 15, Subpart Class A	
Water Cooling	90 liters (24 U.S. gal)/hr at 10-25°C (50-77°F)	
RS-485 Interface	yes	yes
Internal Bottle Option	yes	no

Model	950/960	950/960 HS	952/962	952/962 HS	954/964	956/966	958VHS	968VHS
Speed Water Cooled (Hz)	12	15	15	20	20	30	150	150
Energy (Joules)	5.7	5.7	3.9	3.9	2.5	1.8	0.5	0.5

LaserMark® 950



LaserMark® 960



Dimensions in mm (inches)

GSI Lumonics

www.gsilumonics.com

Product Center
Cosford Lane, Swift Valley
Rugby, Warwickshire
CV21 1QN, England
TEL: +44 (0) 1788 532611
FAX: +44 (0) 1788 532617

North America
22300 Haggerty Road
Northville, MI 48167
USA
TEL: +1 (248) 449-8989
FAX: +1 (248) 735-2460
Toll-free: (800) 563-5866

For sales information, visit our web site or contact your local distributor.

Printed in Canada Item # 047