



GEM Online Semiconductor laser marking machine

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OVERVIEW

Integrated with highly standard configuration, the semiconductor laser marking machine developed by GEMLASER has precision marking effect, low costs and stable performance. It has passed EU CE Certification, Germany OHSAS18001 Certification and ISO Quality Management Certification. Semiconductor laser marking machine has been sold all over the world.

Semiconductor laser marking machine includes infrared, green and UV series, which is suitable for metal materials and many nonmetals. It is widely used in electronic components, integrated circuits, hardware, auto parts, plastic products and many other fields, especially for high quality laser precision micro-processing.

Adopted with superior green and UV laser, the material is more easily absorbed and the thermal diffusion of material can be reduced. The method of breaking molecular bonds could make pure black, no-touch and more clearly printing effect marking.

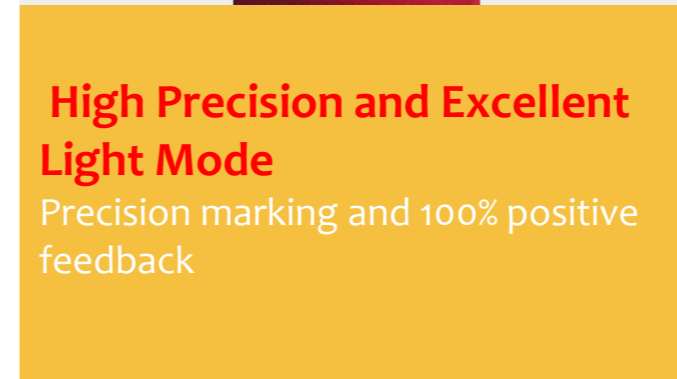
The equipment is mainly used to mark Chinese characters, English, numbers, batch numbers, production dates, period of validity, LOGO, real time clock information and digital anti-counterfeiting, which meets the demand of pharmaceutical industry GMP and food industry HACCP.

Product Advantage



Independent Intellectual Property and Patent

Stable performance, high reliability, operated in 24 hours continuously and steadily, suitable for mass production.



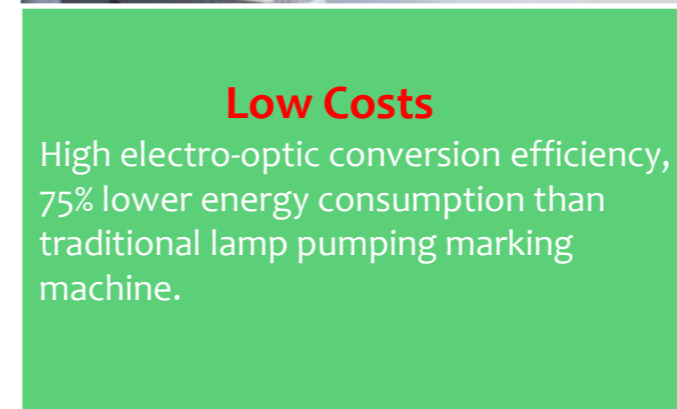
High Precision and Excellent Light Mode

Precision marking and 100% positive feedback



Long Life and Easy Maintenance

20 times service life than traditional machine, decrease maintenance greatly.



Low Costs

High electro-optic conversion efficiency, 75% lower energy consumption than traditional lamp pumping marking machine.



FEATURES

- Flexible structure, the professional stand can be installed on the assembly line, easy adjustment;
- Professional industrial laser source, faster marking speed and consistent marking, high reliability, operated continuously in 24 hours, meet the demands of mass processing and production;
- High electro-optic conversion efficiency, low consumption, long life, save a lot of processing costs for customers;
- Friendly man-machine dialogue interface, easy operation, without bothering for the operators altering.

APPLICATIONS

It is widely used in electronic components, integrated circuits, hardware, automobile parts, plastics, precision equipment and many other fields.

LASER MARKED SAMPLES



Specification

Model	Gem7G	Gem11G	Gem3U	Remark
Laser wavelength(nm)	532	532	355	UV 5W optional
Laser brand	HUARAY	HUARAY	HUARAY	
Output power	≥7	≥11	≥3	Laser source 15W optional
Galvanometer marking speed	≥7m/s			Max 9m/s
Marking area	110mm			140mm optional
Marking focus	180mm			
Marking font	Scribing, lattice			
Marking mode	Static and dynamic			
Online speed	≤120m/min			Depending on the contents
Marking material	Film, PE, PET, HDPE, etc			
Temperature	5-35℃			
Humidity	Relative humidity<95%, frost-free			
Structure material	High-quality aluminium alloy and stainless steel			
Editing Mode	Computer software			
Communication Interface	USB Interface; RS232 Interface			
Power supply	AV220V/50HZ			
Rated Power	1500W	1600W	1500W	
Optional accessories	photoelectric sensor, color mark sensor, laser sensor, adjustable stand, synchronized encoder			Standard optical fiber sensor