



UV Laser Marking System

Grentsun® GSL9000

Our UV laser delivers high-contrast, permanent codes enabling product life time track and trace security for pharmaceutical, permanent codes enabling product life time

Packaging operations that require high-quality, traceable codes for camera read ability can rely on the Grentsun UV laser to help meet industry regulatory requirements, such as the U.S. Food and Drug Administration's Unique Device Identification. Direct marking of permanent codes helps prevent the risk of counterfeiting or manipulation to your product identification.

The 9000 series applies crisp 2D, Alphanumeric and other typical codes at high speeds onto high-density polyethylene fibers such as DuPont Tyvek and commonly used, rigid plastic materials such as white HDPE and LDPE. GRENTSUN Multilingual software helps ensure the same mark quality can be achieved on rotational devices as well as straight line applications.



Uptime Advantage

- Zero consumables to replace during day-to-day operation keeps lines running longer
- Maximum printer availability with air-cooled laser source that virtually eliminates unscheduled down time
- No daily mechanical maintenance procedures help increase uptime

Built-in productivity

- High throughput on both rotary and linear applications up to 250 products per minute
- UV wavelength enables high speed marking-on-the-fly of HDPE/LDPE packaging to increase efficiency
- Mark quality, vision readable 2D codes up to (5.0 m/sec.)
- All-in-one design is available, and the entire machine weighs less than 40 kilograms

Code Assurance

- Permanent codes help ensure complete product lifetime traceability and anti-counterfeiting
- Grentsun Software feature enables consistent high-quality marks on rotational devices virtually eliminating distortion
- Repeatable high contrast color change for top grade vision readability on white HDPE/LDPE packaging

Simple usability

- Coding processes are simplified through the ability to mark any code, in any orientation, anywhere on the product
- UV wavelength marks high resolution and high contrast onto HDPE/LDPE without the need for additives and revalidation of packaging materials

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UV Laser Marking System

Marking fields

70x70mm², 150x150mm², 220x220mm², 330x330mm²

Marking head

Digital high-speed galvanometer system

Marking speed

Up to 500 characters per second; 984 ft/min (300 m/min), 7000mm/s

Laser source

Pulsed Nd:YVO₄ (JPT)
Powerclass: 4
Central emission wavelength:355nm .

Beam deflection

high-speed galvanometer scanners

Beam orientation

90-degree

Operator interface

Ezcad software on PC/ PLC; configurable in 14 languages

Language capabilities

Traditional Chinese, English, Arabic, Farsi, French, German, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Thai, Vietnamese

Communication

Ethernet, TCP/IP and RS232, digital I/Os
Inputs for encoders and product detector triggers
I/Os for start, stop, external error, job select, trigger, trigger enable, encoder;
system ready, ready to mark, marking, shutter closed, error, bad, good signals
and machine/operator interlocks

Integration

Direct integration into complex production lines via scripting interface
Integration via Ethernet and RS232 interface
Highly precise side guided height adjustment via mounting with T-nut baseplate

Electrical requirements

220V, 50Hz

Power consumption

Typically 600 Watt, 10A

Cooling system

Air cooled/ water cooled

Environment

1-50°C (non-condensing)

Sealing and safety standards

Marking unit: IP54, IP65(option)
Supply unit: IP54, IP65(option)
LASER CLASS 4 product (acc. to IEC / EN 60825-1:2014)

Approximate weight & dimension

Supply unit: 23kg	Water chiller: 8kg
Marking unit:20kg	Stand: 25kg
Dimension: 100cm*63cm*46cm	G.W.: 86kg

Applicable certifications

CE, ISO9001

Marking Applications:



**CAUTION
VISIBLE AND INVISIBLE
LASER RADIATION
LASER CLASS 4**

**AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION**

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