



CO₂ Laser Marking System GreentSun® GSL3000

Exceed current marking speed expectations on the production line with the GSL3000 laser marking system, engineered to process complex codes at highest speeds, with the industry's widest mark field.

Meet permanent coding needs today and in the future, with the high-speed capabilities of the GRENTSUN CO₂ laser marking solution.

With print speeds of up to 1,500 characters per second and 25,000 products per hour, the laser is an ideal solution to help address highest speed and volume applications in the pharmaceutical, tobacco and beverage industries.



Uptime Advantage

- Optimized for high-speed and high-volume production lines
- Maximize printer availability with long-life, air-cooled laser sources

Industrial Design

- Suitable for harsh environments where dust and humidity are a challenge and where the system is regularly washed down
- Available with an ingress protection level of IP54
- Designed for 24/7 operation in beverage, food, pharmaceutical and tobacco lines

Code Assurance

- We developed and offer built-in software features that help reduce operator errors and ensure products are coded correctly
- High-quality, permanent codes help assure product traceability and tamper-proofing
- High-resolution marking head delivers consistent, crisp codes

Simple integration

- Compact, high-power laser marking system in the industry
- Easily integrate the laser marking system, even into production lines that have space limitations
- Widest marking field reduces the number of lasers that are required to cover multi-lane / wide web applications, reducing investment and running cost

Greentsun® GSL3000

Laser Marking System

Marking speed

Up to 1,500 characters/sec.⁽¹⁾

Line speed

Up to 15m/sec. (49ft/sec.)⁽¹⁾

Marking window

Approx. 110x 110mm² to 400 x 400mm²

Wavelengths

10.6µm, 10.2µm and 9.3µm

Marking formats

Standard industrial fonts (Type 1 Windows® TrueType®) and Single line fonts
Machine readable codes (OCR, 2D-matrix, etc.)
Bar codes

Graphics, logos, symbols, etc.

Linear, circular, angular, reverse, rotate

Sequential and batch numbering

Automatic date, layer and time coding; real-time clock

Dot mode enables marking 2D codes faster than traditional grid mode

Laser tube

Sealed RF CO₂ laser, power class 30-Watt

Beam deflection

Steered beam with digital high-speed galvanometer scanners

Focusing

Focal lengths: 64/ 95/ 127/ 190/ 254 mm (2.5/ 3.75/ 5.0/ 7.5/ 10.0 inches);
63.5/ 85/ 100/ 150/ 200/ 300/ 351/ 400 mm (2.50/ 3.35/ 3.94/ 5.9/ 7.87/ 11.8/
13.8/ 15.75 inches); 100/ 150/ 200/ 300/ 351 mm (3.9/ 5.9/ 7.9/ 11.8/ 13.8 inches);
400/ 500/ 600 mm (15.75/ 19.68/ 23.62 inches)

Multiple operator interface options

PC software

Touch control software

Ezcad control software

Language capabilities⁽²⁾

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

interface dependent.

Additional languages available with GREENT SUN software.

⁽¹⁾ Maximum marking and line speed is application dependent

⁽²⁾ With optional GREENT SUN Laser Controller

Communication

Ethernet, TCP/IP and RS232 optional

Inputs for encoders and product detector triggers

16 inputs / 11 outputs for start/stop signals, machine/operator interlocks, alarm outputs;
in addition to the safety circuits

Customer-specific solutions available

Integration

Direct integration into complex production lines via scripting interface

Flexible beam delivery options (beam extension unit/ beam turning unit)

Detachable umbilical for simple integration; available in 3 lengths

Electrical requirements

110-230 VAC (autorange), ~50/60Hz, 1PH, 1.15kW

Cooling system

Air cooled

Environment

Temperature 1-50° C

Humidity 10%-90%, non-condensing

Sealing and safety standards

Supply Unit: IP54, optional IP65

Marking Unit: IP54, optional IP65

Optional safety module provides Performance Level d (PFL-d) in accordance
to EN 13849-1

IEC/EN 60825-1:2014

Approximate weight & dimension

Supply unit: IP54/IP65 11.5kg

Marking unit: IP54 26.5kg; IP65 27kg

Dimension: 86*76*72cm, G.W. 86kg

Applicable certifications

CE, SGS, CCC, ISO

Applications:



INVISIBLE LASER RADIATION

AVOID EYE OR SKIN EXPOSURE
TO DIRECT OR SCATTERED RADIATION

LASER CLASS 4
(EN 60825-1:2014)

Contact to get quotation

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