



GRENTSUN
— Think Along Your Lines

Laser Coding System

Greentsun®GSL9000

The GSL9000 series UV laser marking machine provides high-contrast, permanent coding with high marking efficiency and minimal impact on packaging materials. It is perfectly suitable for marking applications in various industries including tissue products, hygiene products, pharmaceuticals, and daily chemicals.

Greentsun®GSL9000 series is equipped with a 355nm UV laser adopting third-harmonic generation (THG) technology. Compared with infrared lasers, UV lasers produce smaller focused spots and directly break molecular bonds through short-wavelength laser energy, minimizing mechanical/thermal deformation (cold light source characteristic).

High-performance laser with premium beam quality for flawless marking;
Cold light source eliminates thermal effects – no material deformation or scorching;
Ultra-precise marking/engraving for superior processing quality



Marking Performance

High-precision focused spot ensures perfect marking quality;
High-speed marking with maximum efficiency , compact size & low power consumption;
Non-contact process creates permanent, indelible marks

User-Friendly Features

Compact design for installation in confined spaces;
Touchscreen operation enables fast data editing;
Modular construction simplifies installation & maintenance

Consumable
free

Stable
performance

Diverse
application

Permanent
marking

Maintenance
free

Grentsun®GSL9000

UV Laser Coding System

Coding format

15 Languages: CN/EN/ES/RU (self-selected)

Variables: Date/Serial/Time/Text/Shift

Codes: 1D/2D barcodes

Graphics: Logos (DXF/PLT/JPG/PNG/BMP)

Shapes: Lines/Dots/Circles/Rectangles

Coding speed (varies with application)

Speed: Max. 12000mm/s

Coding area (more options available)

110mm×110mm ; 175mm×175mm

200mm×200mm ; 500mm×500mm(larger available)

HMI control System

Dual operation modes: PC software / 10.1" color touchscreen

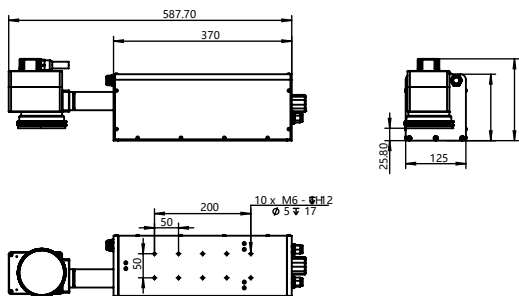
Data transfer: USB flash drive for job & settings import/

exportStandard I/O: Ethernet, USB, encoder, sensor

portsOptional safety: Grentsun alarm + remote interlock

(dual-channel)

Coding unit dimensions



Memory Function

Preloaded common settings for quick recall

(no repetitive editing)

Auto-date synchronization with system time

Operating Conditions

Temperature: 0-45°C (32-105°F)

Humidity: 10-90% non-condensing

Dust-proof construction

Cooling & Protection

Air cooling system

Protection level: IP54 rating (Optional IP65)

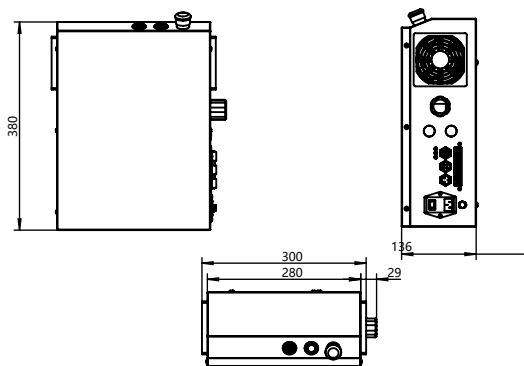
Power Requirements

Voltage: 100-120V / 200-240V ACPhase;

1PH, 350VAC (auto-ranging)

Frequency: 50/60Hz

Power cabinet dimensions



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