



Laser Coding System

Greentsun®GSL6000

The GSL6000 series fiber laser marking machine can be seamlessly integrated into ultra-high-speed production lines, delivering high-contrast markings on rigid plastic packaging, metal containers, and other industrial products.

Greentsun® GSL6000 laser coding machine is suitable for online marking on most metal materials. It is widely used for graphics and text marking in various fields, including integrated circuit chips, PVC/PE pipes, industrial bearings, aerospace components, automotive parts, home appliances, hardware tools, molds, wires & cables, food packaging, jewelry, tobacco, and military applications, as well as high-volume production line operations.

Dual red-light focusing, Oversized lens enables high-speed, large-area matrix marking on production lines



Enhanced System Usability & Stability

- Stable & reliable performance for 24/7 continuous operation
- Long service life up to 100,000 working hours
- Touchscreen or industrial PC control options

Green Laser Solution

- No consumables – significantly lower cost than traditional inkjet coding
- High-power fiber laser – energy-efficient, safe, and reliable
- Dustproof & waterproof – eco-friendly with zero pollution

Enhanced flexibility

- Compact design for easy integration
- Options of lens for diverse application
- Standalone or network operation supported

Ultra-high performance

- Air-cooled system – no cooling water required, easier maintenance
- Touchscreen control – intuitive and user-friendly
- Positioning LED for precise marking alignment

Grentsun®GSL6000

Fiber 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

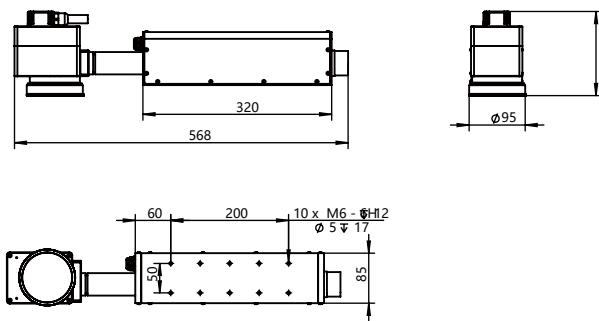
Dual operation modes: PC software / 10.1" color touchscreen

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

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

portsOptional safety: Jirixiang 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)

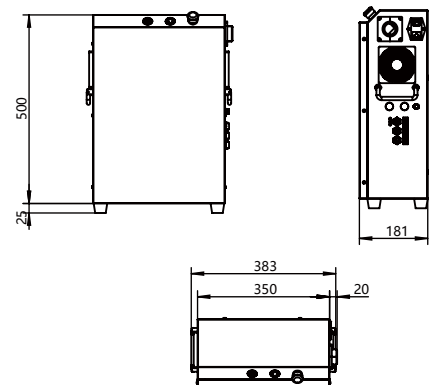
Power Requirements

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

1PH,

350VAC (auto-ranging)Frequency: 50/60Hz

Power cabinet dimensions



GRENTSUN
— Think Along Your Lines

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