


GRENTSUN
Think Along Your Lines 吉瑞祥

Fiber Laser Marking Systems

GRENTSUN® GSL6130/6150

The 6130 and 6150 are versatile fiber laser marking systems that feature the smallest fiber laser marking head on the market, designed for simple integration, reduced installation cost and increased range of installation opportunities.

The Grentsun 6130 (30-Watt) and 6150 (50-Watt) fiber lasers are the first to feature the Zhibo-tech marking head, making them easy to integrate, operate and service.

The Zhibo-tech marking head is one of a kind, small in both in size and weight, and IP54 rated for use in common environments. These fiber lasers, designed to deliver high-quality, permanent codes for a wide range of marking applications, are an ideal solution for parts-marking, food, beverage, consumer packaged goods, pharmaceutical and cosmetics manufacturers who have space limitations, are looking for simple integrations, or do frequent rapid changeovers.

Uptime Advantage

- Achieve simple integration, reduced installation costs, and an increased freedom of positioning with an industry-first, compact, fiber laser marking head
- Simplify laser head adjustment and positioning with reduced laser head mounting bracketry
- Easily migrate to a laser marking solution, with the added benefit of reduced consumables
- Reduce the need for additional housing or equipment with a water and dust tight IP69 laser marking head, facilitating worry-free usage in washdown and harsh environments

Code Assurance

- Control the laser through a range of familiar, easy-to-use user interfaces, reducing operator training needs and the risk of product rework and recalls
- Benefit from simple operation, message creation and reduced operator errors with the GRENTSUN Touch PLC or the Ezcad laser controller

Built-in productivity

- Mark up to 2,000 characters per second
- Get closer to the product with the smallest fiber laser marking head on the market
- Benefit from easier, faster and precise focal distance during line or product changeover with pilot beam-based focal alignment installation process

Simple usability

- Achieve easy set-up and fast product changeovers with the integrated pilot beam focus finder that can reflect the code and actual size of the marking field
- Benefit from easy serviceability with the ability to quickly remove or replace the fiber laser unit either on the production line or within complex machinery
- Focus more on production and less on user interaction and maintenance with an easy-to-use laser solution that is intuitive to the operator without the need for additional training

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Laser Marking Systems

Marking fields (mm)

	Working Distance: (CFS-X)	Working Distance (CFT-X)	x Dimension	y Dimension
Small (-S)	72.00	89.00	37.01	63.58
Medium (-M)	112.50	129.50	48.27	89.30
Large (-L)	171.00	188.00	64.46	126.30

Marking formats
Standard fonts (Windows® TrueType®/ TTF; PostScript®/ PFA, PFB; Open Type®/ OTF) and individual fonts, such as high-speed or OCR
Machine-readable codes: ID-MATRIX; ECC plain; BAR CODES/ -stacked omnidirectional/ -limited [CCA/B]/ expanded
Graphics/ graphic components, logos, symbols, etc. (dxf, jpg, ai, etc.)
Linear, circular, angular text marking; rotation, reflection, expansion, compression of marking contents
Sequence and serial numbering; Automatic date, layer and time coding, real-time clock; Online coding of individual data (weight, contents, etc.)

Laser source
Ytterbium (Yb) pulsed fiber laser
Power classes 20 and 30 Watt
Central emission wavelength: 1,040 - 1,090nm (1.04 - 1.09µm)

Laser beam deflection
Digital high-speed galvanometer scan

Laser beam orientation
Straight-out (CFS-x) and 90-degree (CFT-x) options

User interfaces
Ezcad software for PC;
Configurable in 14 languages (option)
GRENTSUN

TCS+
Browser-enabled software for intuitive creation of complex jobs on standard web browser compatible devices
Support for 14 languages
Full user access control and role definition
Event log for history of user interactions
Graphical guided line setup wizard
Easy system and parameter configuration
WYSIWYG editor

Smart Graph Software
Graphic-orientated user interface for Windows®
Text / data / graphics / parameter editor
Configurable in 14 languages, e.g. Arabic, English, Farsi, French, German, Korean, Polish, Portuguese, Russian, Simplifed Chinese, Spanish, Thai, Traditional Chinese, Vietnamese
Easy import functions for the most important file formats (dxf, jpg, ai, etc.)

Communication
Ethernet (TCP/IP, 100Mbit LAN), EtherNetIP™, ProfiNet®, 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
Customer-specific solutions

Integration
Direct integration into complex production lines through the laser's scripting interface

Integration via Ethernet and RS232 interface
Highly precise side guided height adjustment via dovetail joint or 38mm tube

Electrical requirements
100 - 240 V (autorange), 360 VA, 1 PH, 50/60 Hz

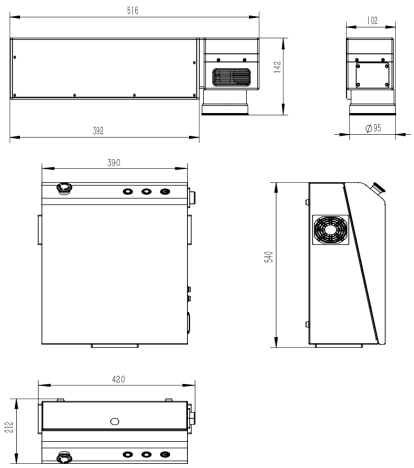
Environmental protection
Supply unit: IP54, air cooled
Laser head: IP54, IP69, air cooled

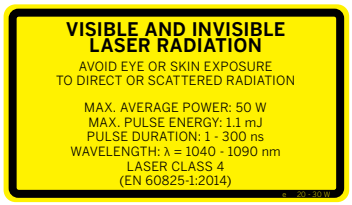
Temperature/humidity range
5 - 40° C (40 - 105° F)/ 10 - 90 %, non-condensing

Weight
Supply unit: IP53 15kg
Marking unit: IP53 23kg; IP65 27kg

Applicable certifications
EtherNetIP DOC, ProfiNet/PNO certificate, CE, TÜV/NRTL, FCC
Compliance (no certification required): ROHS, CFRH/FDA

Marking head dimensions





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