

Compact Open Fiber Laser Marking System

INGRASER-FL1000

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As an industrial laser marking machine, it is the best solution that can meet the quality, durability and productivity required in industrial sites. Minimizes installation space by designing compact size that can be placed on table. It is easy to mark even large materials, and the laser focus can be easily adjusted by automatically controlling the Z-axis, making it easy to mark materials of various heights. In addition, it guarantees high durability and improves productivity by providing easy functions for repetitive work. It can mark metal materials such as steel, titanium, aluminum, as well as some non-metal materials such as PCB, ceramic, plastic, film, etc.,.



Functions

- 240mm stroke Z-Axis
- Wide workspace 112*112*240(mm)
- Ultra high-speed marking on various metal metals.
- Various marking types: Regular marking, Black marking and deep marking etc.
- Easy Guide laser enabled to check marking position
- Easy to check and set a focus height with a dual-focus beam
- High-accuracy scan head provides clear marking for small letters which is difficult to discern with the naked eye
- Installation and use with compact size
- Specialized laser engraving software
- Switch for external device control

Specification

Size	420mm(W) x 695mm(H) x 562mm(D)	Beam quality	M2 <1.5	Power consumption	< 400W(20W), <500W(30W)
Max. engraving area	112mm(X) x 112mm(Y) X 240mm(Z)	Marking speed	3000mm/s	Laser wavelength	1,064nm
Laser power	20W, 30W	Frequency	1~600kHz	Cooling system	Air Cooling
Power supply	AC 100~240V 50/60Hz	Weight	44kg	Laser	Fiber
Blower Power Port	AC 220V/2A	Resolution	0.001mm(X,Y)	Laser Lifespan	100,000 hours

Uses

Engraving serial number, barcode, logo, graphic image on various subjects such as automobile, electricity, electron, mobile, medical device, tool and etc.
Engraving various metal materials such as aluminum, brass, stainless steel, titanium and etc. with a great depth of engraving



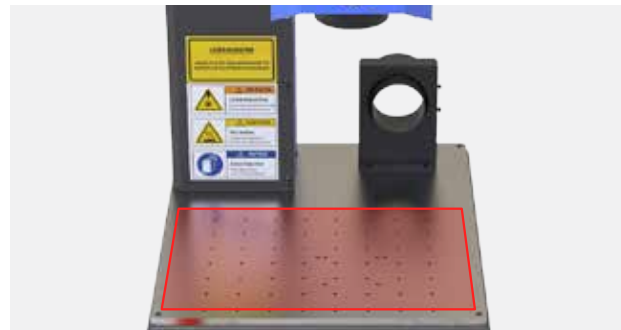
240mm Stroke Z-axis

- Larger materials can be supported with a long stroke of 240mm
- Anyone can easily mark with the combination of automated device, optimized vise structure, and easy and convenient software



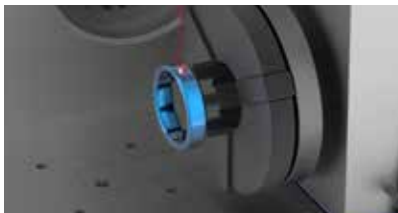
Wide workspace 112*112*240(mm)

- Wide enough workspace to mark various sizes of materials such as long and large materials



Supports Rotary marking

- Connecting rotary device to mark the outer and inner diameter of cylindrical material
- It is designed with a detachable modular structure, so it can be easily and simply detached.



Ultra high-speed marking on various metal metals

- High-quality marking on various metal materials such nameplate, parts, etc in an ultra-fast and accurate fashion.
- Various marking types: Regular marking, Black marking and deep marking etc.
- Selectable power (output) depending on the purposes.



Easy installation and use with compact size

- Minimizes installation space by designing compact size that can be placed on table.
- It is lightweight and makes transfer easier as well.



Fast and easy focus setup

- Easy to check and set a focus height with a dual-focus pointer



Automatic serial number marking

- Repetitive marking such as serial number is automated to minimize user interference.



Engraving small letters

- High-accuracy scan head provides clear marking for small letters in 0.5mm size which is difficult to discern with the naked eye.



Direct control of Blower power

- Provides a power switch to control the power of the blower directly from the device
- Resolves the inconvenience of turning the power of the blower off and on every time

QR Code engraving system

- Offers various types of marking formats for barcode such as 1D barcode, 2D Data Matrix, QR Code.

Specialized laser engraving software

- Intuitive interface provides easy-to-learn, dedicated software that provides automation to simplify marking of various formats.