

TJ Small Desktop

Laser Marking Machine Series

Average output power

20W / 30W / 50W / 60W



AFFORDABLE AND
COST EFFECTIVE



PORTABLE
MINI-FOLDABLE



(Model A manual)



(Model B manual)



(Model D Electric Lifting)



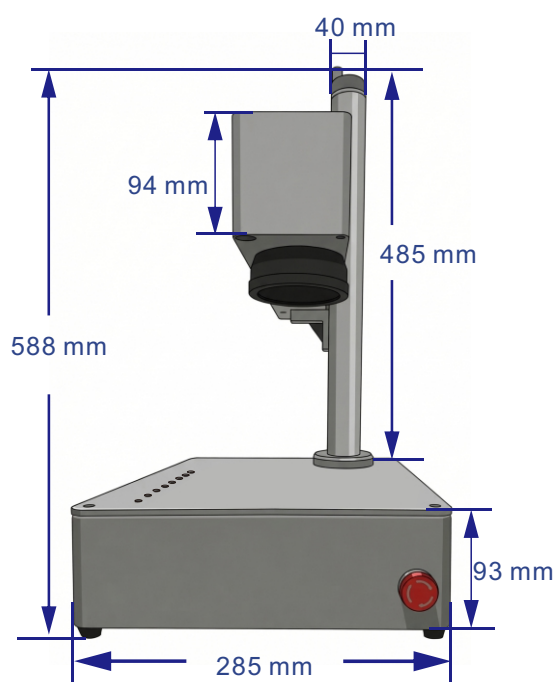
(Model C manual)

MODEL INTRODUCTION

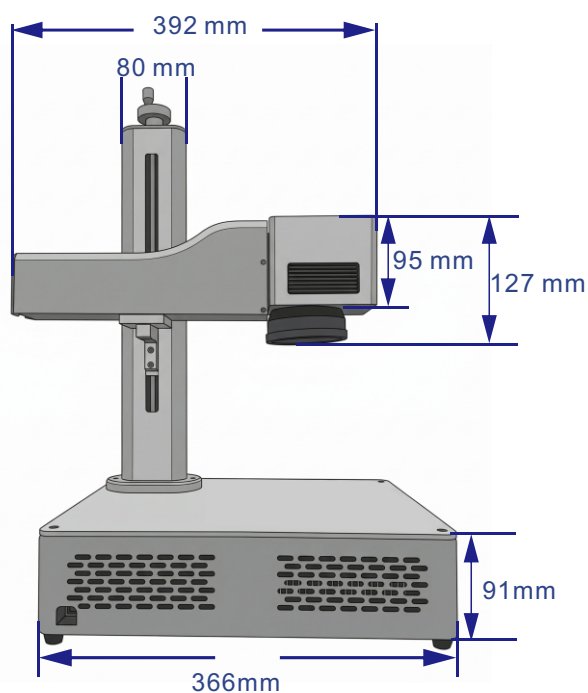
The TJ series of small desktop laser marking machines belongs to the desktop fiber laser marking equipment category. Developed by MAC Laser, these economical models are specifically designed for users seeking a compact, flexible, and convenient solution. This equipment offers advantages such as affordability and high cost-effectiveness (computer not included; users must configure their own). The machine is compact, portable, robust, detachable, and foldable, making it easy to move. Its marking performance is comparable to desktop laser marking machines, easily meeting most common laser marking applications.

The TJ small desktop laser marking machine uses a 1064nm wavelength fiber laser, suitable for various metal materials such as iron, copper, aluminum, gold, and silver, as well as some non-metallic materials such as PC, ABS, PVC, and PC+ABS. It is widely used in industries such as 3C, automotive parts, electronic components, integrated circuits (PC), electrical appliances, precision instruments, hardware products, building materials, watches, jewelry, and arts and crafts.

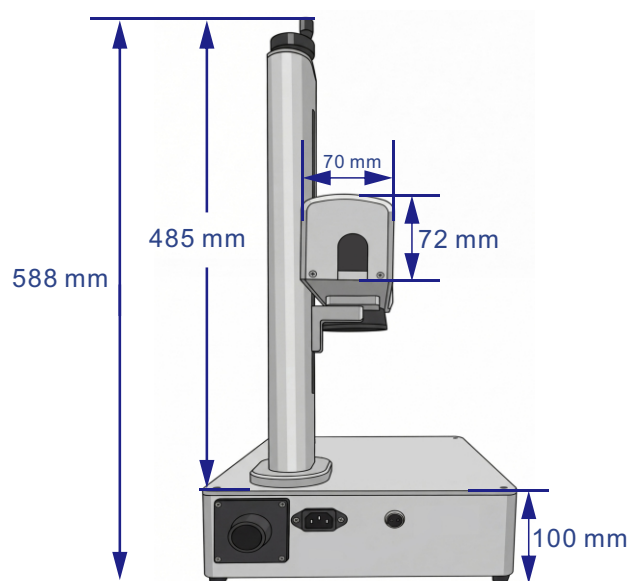
MODEL SIZE



front of the equipment



equipment side



Behind the equipment



Real photos of the equipment

MODEL INSTALLATION

M4 screw reinforcement

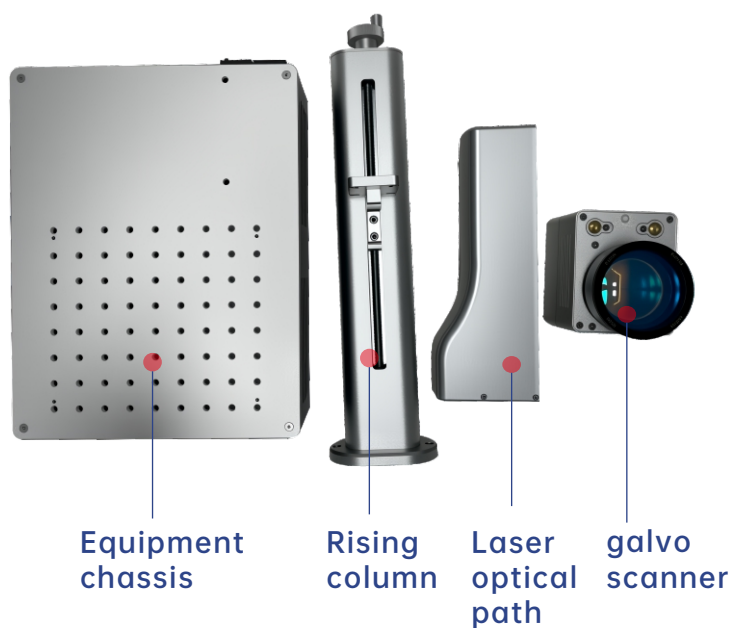


Install in different locations according to your specific needs; flexible and adaptable.

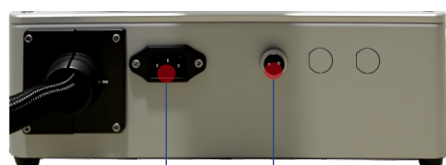
Hex screw reinforcement - M5 specification



Select tool #4



Package



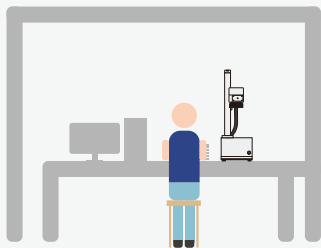
Power interface

Foot pedal interface

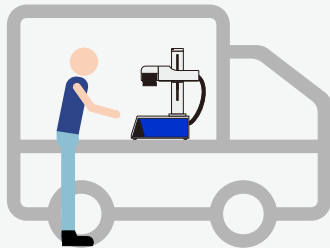


Computer interface

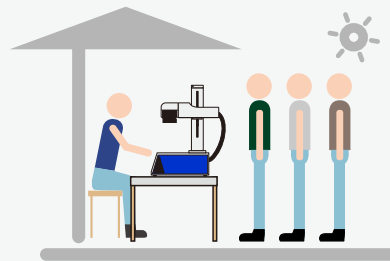
APPLICATION SCENARIOS



● Small Studio



● Ground floor economy



● Outdoor Activities

EFFECT SHOW

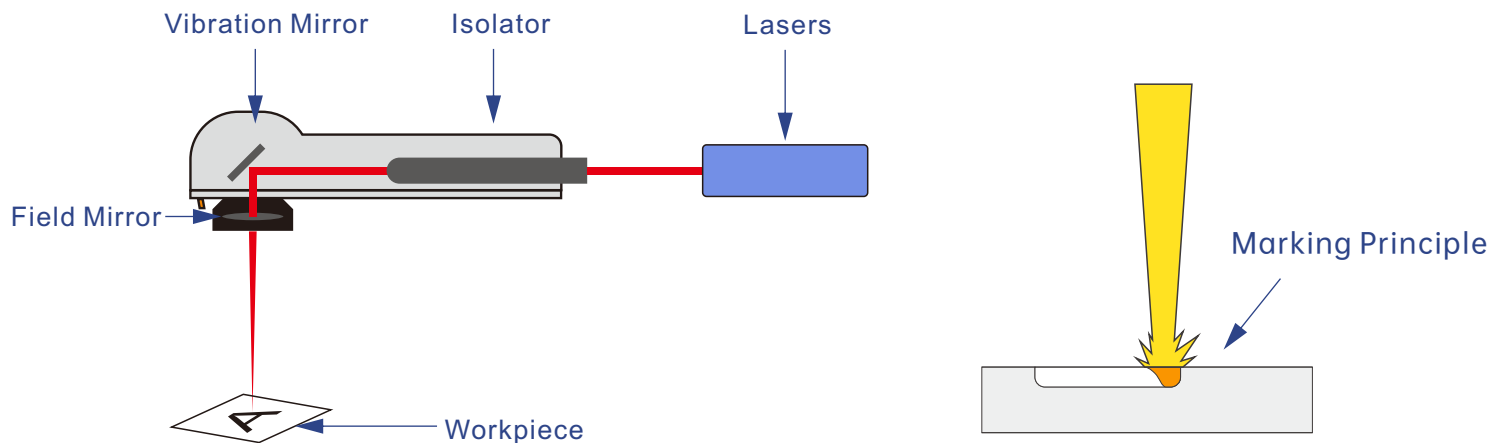


MODEL PARAMETERS

Model Series		TJ-20Z	TJ-30Z	TJ-50Z	TJ-60Z
Laser parameters	Laser Model	MFL-20M	MFL-30M	MFL-50M	MFL-60M
	Output power	20W	30W	50W	60W
	Beam quality M2	1.5	1.5	1.8	1.8
	Pulse repetition frequency	27 -60 kHz	27 -60 kHz	40 -80 kHz	40 -80 kHz
	Laser wavelength	1064±5 nm			
	Output power	< 3%			
	Design life	Approx. 100000 operating hours (non-life time)			
Optical properties	Marking range	100~150mm (range optional)			
	Engraving depth	≤1mm (depending on power and time)			
	Engraving speed	≤10000mm/s			
	Repetition accuracy	±0.002			
	Minimum marker line width	0.1mm			
	Minimum character height	0.15mm			
Usage environment	Cooling method	Built-in air cooling			
	System power supply	500W / 220V / 50Hz (can be connected to 110V)			
	Temperature, humidity	0~40°C, 30%RH 85%			
	Oil mist, condensation	Not allowed			
Other parameters	Support System	Windows operating system			
	External dimensions	285X366X588 mm			
	Packing size	537X550X200mm			
	Weight of the whole machine	Machine weight: 11.3kg		Machine + Packaging: 13.7kg	

MARKING PRINCIPLE

The mark is placed directly on the surface with the help of a strong pulsed laser beam, producing a very dark, high-contrast mark on the surface, achieving a durable mark with a uniform perspective and corrosion resistance.



ADVANTAGES OF THE MODEL



Equipment display

Compact and portable

- The whole machine weighs only about 11.3KG, small, compact and light, very convenient to carry
- Column, light path can be disassembled and boxed at will, easy to install, convenient storage
- The column can be adjusted at will on the marking table, so it can be flexible and changeable

Cost-effective

- Affordable and economical models, with performance comparable to desktops and better value for money
- One integrated design, solid structure, stable performance, convenient after-sales service
- Desktop operation, small footprint, not limited by the use of space

High quality light source

- Adopt advanced fiber laser, good output beam quality and high reliability
- No consumables and maintenance-free, designed to last approximately 100,000 working hours
- Flexible application to metallic and some non-metallic materials

Simple and flexible operation

- Support Windows computer system, connect and install the software can be used
- Powerful control software, support multi-language switch, easy to learn operation
- Support text, patterns, QR codes, bar codes, running numbers, graphics and other content

ADVANTAGES OF THE MODEL



Affordable and economical model with high cost performance

Desktop fiber optic marking equipment, specifically developed for the needs of simple, compact, flexible and convenient equipment. The characteristics of the product, the price is affordable and economic, cost-effective.

Small and flexible, diverse applications

The whole machine weighs only about 11.3KG, compact and lightweight, very easy to carry, and can be used at any time. Switch to any use scene.



Compact and sturdy construction, one year warranty

One integrated design, novel style, compact and solid structure, stable performance. Guaranteed, we promise one year warranty for the whole machine.

Column light path can be flexibly disassembled

Flexible disassembly of light path and column, marking position at will, more convenient storage. Easy to disassemble, just twist and loosen the screws to disassemble.



ADVANTAGES OF THE MODEL

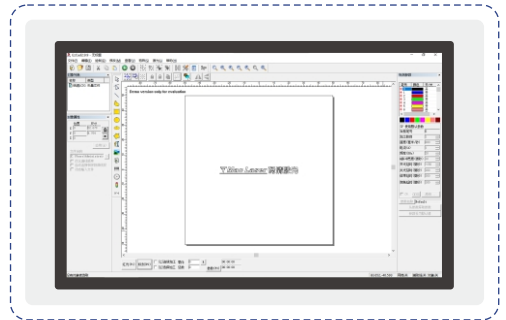


Advanced Fiber Laser

Adopt high quality light source, good quality of light spot, uniform optical power density, stable output optical power. With no light leakage, anti-reflection and other characteristics, to meet the mainstream market application needs.

Provide versatile marking software

Support Windows computer system, connect and install the software can be used, control software. Powerful, support a variety of marking formats, easy to learn to operate.



Double red light metal oscillator

Metal body structure, built-in double red light marking indication, with no adjustment, maintenance-free, and the advantages of high stability, upgradeable high-speed digital scanning oscillator.

Stowed rotary lift

Adopt manual rotary docking control, simple and beautiful design, easy to operate and can be stored.

