

MOPA Color Fiber Laser Marking Machine

——*MY-M100F-III*





MOPA Color Fiber Laser Marking Machine - III

Feature

- 1) Long lifespan of fiber laser source: 100 000 - 200 000 hours.
- 2) Low consumption: <450W, more economical and environmental.
- 3) High Speed: 7000mm/s, faster than traditional machines.
- 4) Superior Laser Beam: The definition is 1 micron, 10 times as traditional products.
- 5) No Consumables: One marker can work for more 8-10 years without any consumables.
- 6) The fiber laser beam comes out from the fiber laser source directly, no need to adjust the laser beam path.
- 7) High-precision and high-speed scan head, with good seal, capable to prevent dust and water, small volume, compact.
- 8) High-stability controller, USB interface, swift and stable transmission, route optimization, easy operation.
- 9) Strong Compatibility: PLT, BMP, JPG, TTF, DXF, SHX, AI and other format files output from CorelDraw, AI, PS, AutoCAD, Solidworks etc..
- 10) Integrated Air Cooling System: Better cooling effect than water-cooling effect in YAG laser, no maintenance.

Application

WISELY Laser Marking Machine for Metal & Plastics. It can work with most metal marking applications, such as Stainless Steel, Brass, Aluminium, Steel, Iron etc, and can also mark on many nonmetallic materials, such as ABS, Nylon, PES, PVC, Makrolon, etc.

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|---------------------------|---|
| 1) Electronic Components: | Resistors, Capacitors, Chips, Printed Circuit Boards, Computer Keyboard, etc. |
| 2) Mechanical Parts: | Bearings, Gears, Standard Parts, Motor, etc. |
| 3) Instrument: | Panel Board, Nameplates, Precision equipment, etc. |
| 4) Hardware Tools: | Knives, Tools, Measuring Tools, Cutting Tools, etc. |
| 5) Automobile Parts: | Pistons and Rings, Gears, Shafts, Bearings, Clutch, Lights, etc. |
| 6) Daily Necessities: | Handicrafts, Zipper, Key Holder, Sanitary Ware, etc. |

Parameter

Model	MY-M100F-III
Power	100W / 120W
Laser Wavelength	1064nm
Standard Marking Area	150mm*150mm
Optional Marking Area	70*70mm / 100*100mm / 200*200mm / 300*300mm / 400*400mm
Marking Depth	≤ 2mm
Marking Speed	7000mm/s
Minimum Line Width	0.015mm
Minimum Character	0.2mm
Repeated Precision	± 0.006mm
Fiber Laser Source	JPT from China
Scan Head	Galvo Tech from China
Controller & Software	JZC Controller & EzCAD2 Software from China (can be EzCAD3)
Lifespan of Fiber Laser Module	100 000-200 000 hours
Beam Quality	M2 <1.3
Focus Spot Diameter	<0.01mm
Output Power of Laser	Continuously adjusted 10%~100%
Output Frequency of Laser	Continuously adjusted 1~4000KHz
Power Stability (8h)	< ±1.0 % rms
System Operation Environment	Windows 10/11 -32/64bits
Cooling Mode	Air cooling
Temperature of Operation	0°C~40°C
Voltage	220V / 50HZ / 1-PH or 110V / 60HZ / 1-PH
Power Consumption	<450W
Dimension (L*W*H)	750mm*520mm*720mm
Package Size	850mm*620mm*870mm
Net Weight	65KG
Gross Weight	95KG
Optional (Not free of charge)	Rotary Device, Moving Table, Lens, Fume Purifier, other customized Automatic Matching System

Shipment

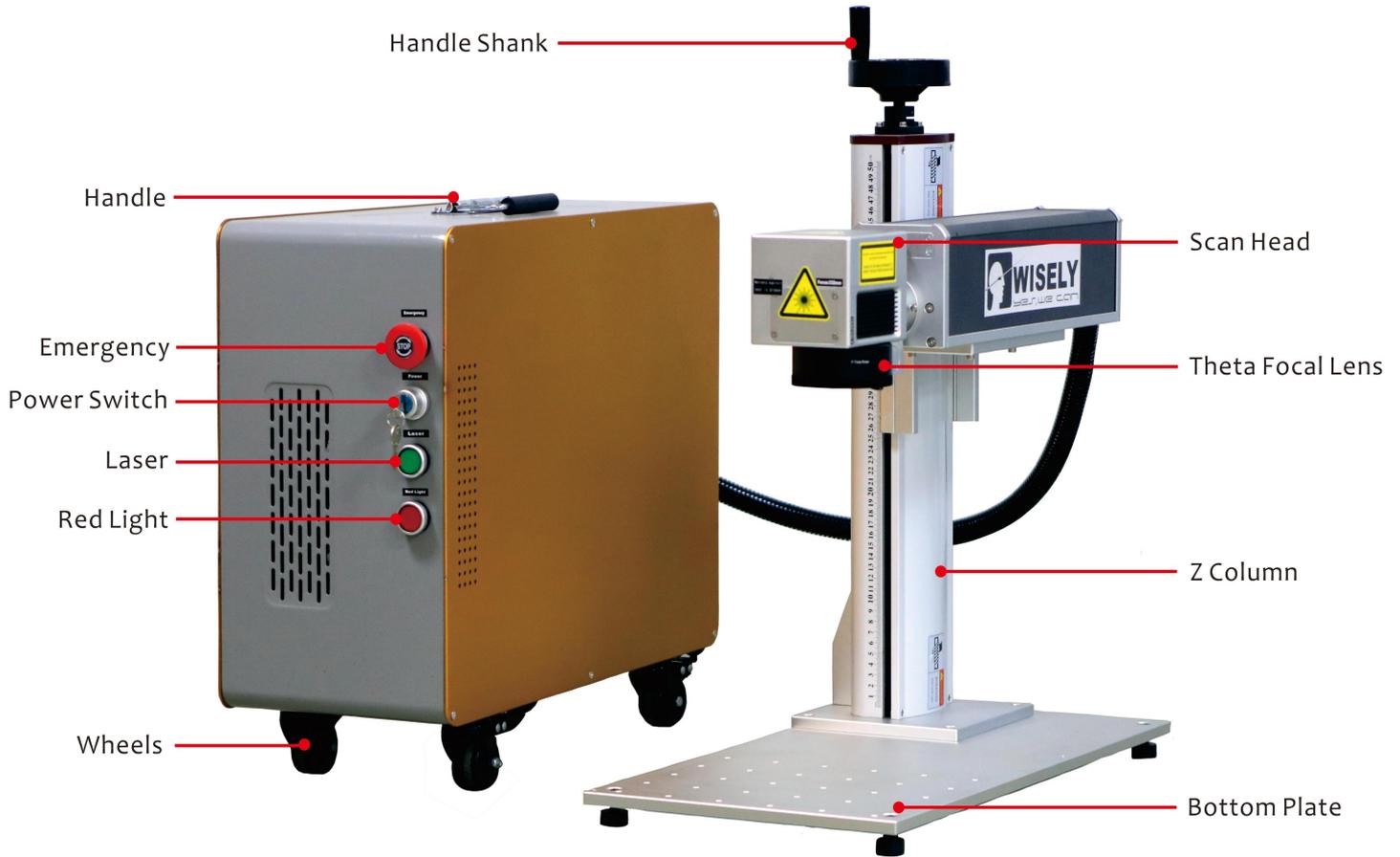
Within 5~7 working days after receiving your payment.

Warranty

Whole machine has a warranty period of 24 months since the production date.

Training

1~3 working-days training free of charge in factory. Oversea training is available, the buyer can discuss the details with WISELY salesman.



Advantages

- 1) Portable style, small size, easy to transportation. The equipment can work with customized automatic matching system.
- 2) China top brand JPT M7 model laser source, pulse width and frequency can be adjusted, with excellent processing performance, stainless color marking and aluminum black marking.
- 3) The machine can work with all metallic materials and some non-metallic materials, gold, silver, copper, stainless, aluminum, ABS, Acrylic, PVC, ect.

Main Configurations

	<p>1. JPT M7 Model Laser Source</p> <p>Beam quality M2<1.3 power stability < ±1.5%rms over 8 hours longer lifespan over 100,000 hours Integrated air cooling system</p>		<p>4. Taiwan MW Laser Power Supply</p> <p>Famous Taiwan MeanWell laser power supply with Voltage Stabilizing Protection. Stable performance and long lifespan.</p>
	<p>2. Control System & Software</p> <p>Genuine BJJCZ controller, with stable performance and high reliability. EZCAD is easy to operate, with high compatibility, support various files with format such as PLT, BMP, JPG, DXF, AI, ect.</p>		<p>5. WISELY F-theta Lens</p> <p>Customized by top brand Wavelength. Small-size focus spot, excellent marking effect, low consumption and high stability.</p>
	<p>3. WISELY Scan Head</p> <p>Customized scanner specially for High series laser marking application, its speed up to 7,000 mm/s, with high precision, low temperature drift and high stability.</p>		<p>6. Leadshine Driver and Motor (if any)</p> <p>Lower noise, low vibration, running more smoothly, higher torque, higher acceleration, higher precision.</p>

Sample Gallery



Color Marking

304# S.S.

Metal Materials

- Gold
- Silver
- Brass
- Copper
- Iron
- Aluminum
- Anodized aluminum
- Stainless Steel
- Stainless Chrome
- Titanium
- Chrome
- Chrome steel
- Molybdenum
- Machine tool steel
- Multi-Coated Metal
- Nickel-plated steel
- Nickel-plated brass
- Silicon steel
- Zinc plated mild steel
- And more



Phones Black Marking

Car charger

Silver Ring & Gold Bracelet Marking



Copper & Stainless Deep Engraving

Silver & Aluminum Deep Engraving & Cutting

Hardware Tool Marking



Copper & Brass Marking

Medals Marking

E-cigarettee Case



Nameplate Marking

Daily Necessities

Pen & Stainless Cups



Firearms Marking & Emgraving

Stainless & Carbon Steel & Chrome Steel & PMAG Polymer



Non-metallic Materials

- ABS (Black / White)
- Acrylic (black)
- Plastic
- PVC
- PE
- PEEK (white)
- Carbon fiber
- Ceramics
- Malrolon
- Nylon
- Leather
- Rubber
- Wood (Painted)
- And more

Touch Board & Adapters & LED Lighting



Charger & Adapter

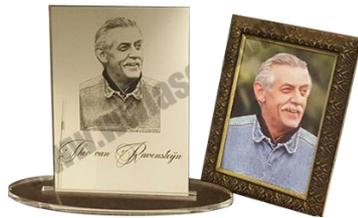
Bottle Cap

Phone Shell



Painted Plastic Transparent Marking

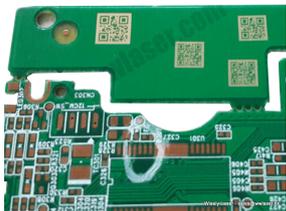
Painted Glass Marking



Painted Acrylic

Mirror artwork

Animal Eartag & Plastic Seal



PCB & Chips

Toner Cartridge

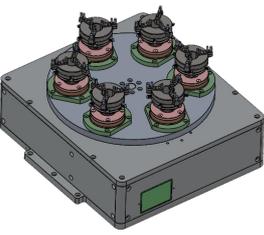
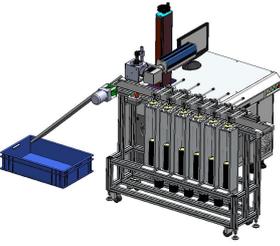
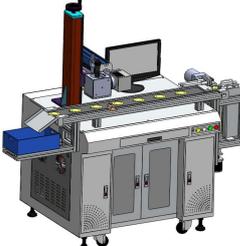
Computer Keyboard & Mouse



Ceramics Marking

Artificial Leather

Automation For Fiber Laser Marking Machine

	<p>1. Conveyor For Bearing Marking System</p> <p>The machine is equipped with a set of conveyor, the transmission speed can be adjusted easily, and the cylinder position can be adjusted according to the product.</p>		<p>6. Dual Conveyors Bearing Marking System</p> <p>This machine is equipped with two sets of conveyors, designed to massive bearings marking or similar objects marking. The two conveyors can do dual marking, alternately feeding and unloading, good for improving the processing efficiency.</p>
	<p>2. Auto 1D Moving Table</p> <p>There are two work stations, and one fixture can be placed on each work station. The stations alternately operate to complete repetitive action as loading, marking, moving, unloading, can expend working area, save time and reduce labor cost.</p>		<p>7. Ruler Marking System</p> <p>This 4000mm long automation is special for the aluminum, brass, stainless ruler marking, used for oil companies and gas station. It is also good for other long-size products marking.</p>
	<p>3. Auto Feeding System</p> <p>The machine is equipped with PLC controller, motor driving system and linear guide rail transmission system. The robotic arm automates feeding & unloading, suitable for nameplate of electronics, food, beverages, small gift and so on.</p>		<p>8. Auto Focus System</p> <p>This auto-focus makes it easy to achieve auto-focusing on the different thicknesses of materials, which is a perfect alternative to manual focusing, the sensor has the characteristics of high sensing precision, accurate testing distance, fast feedback.</p>
	<p>4. Rotary For Lamp & LED</p> <p>The rotation table is equipped with high precision DD Motor, designed for marking LED light or similar object. 8 working pistons, integrates marking and testing, are conducive to high efficiency of the production line.</p>		<p>9. Pen Marking System</p> <p>The rotation is equipped with multiple groove, suitable for pen, similar cylinders marking. It's good for high-efficiency marking, time-saving and lower cost.</p>
	<p>5. Medal Auto Feeding Marking System</p> <p>6-piston automation with CCD camera, good for medals batch marking. The automation is equipped with PLC, control software and stepper driving system. can improve marking efficiency, reduce labor cost.</p>		<p>10. Medal Auto Feeding Marking system</p> <p>1-piston automation with CCD camera, good for medals batch marking. The automation is equipped with PLC, control software and stepper driving system. can improve marking efficiency, reduce labor cost.</p>

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