

PM-F1

MINI LASER ENGRAVER

Handheld & Desktop 2-In-1 Laser Engrver



PM-F1 MINI

LASER ENGRAVER



Fully Self-Developed · Industry-Leading Ultra-Miniaturized Handheld Laser Engraver

Our 100% in-house developed handheld laser engraver stands as the benchmark for true ultra-miniaturization in industrial-grade laser marking equipment on the market today.

Powered by our proprietary core integrated technology, we have shattered the bulk limitations of traditional laser marking machines, creating an industry-leading ultra-lightweight body that completely eliminates the hassle of transporting, deploying and maintaining large-scale legacy equipment. High-precision, stable engraving and marking can be completed with just one hand. After years of R&D refinement and extensive on-site validation with customers, the device features simple operation and reliable performance. Standardized mass production ensures consistent quality for every unit, drastically cutting end-to-end logistics and after-sales costs, while perfectly solving the "last-mile" on-site operation pain point of laser marking. It provides manufacturers with a more flexible, cost-effective new laser marking solution, suitable for all industrial marking and personalized engraving scenarios.

Our Advantages



Self-developed and reliable

Our own software and hardware R&D team is deeply involved in the field of lasers



Go global

Creating value for customers around the world with professional laser products



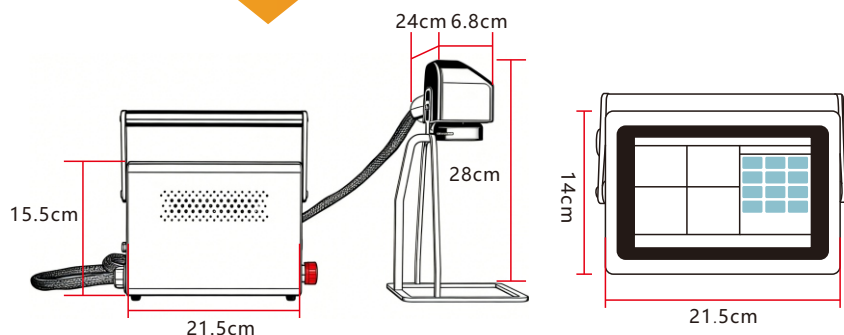
High quality

The product is easy to use and durable, making it worry free to use



Service is worry free

Pre sales and after-sales one-stop worry free service



Excellent Performance



The image shows a portable laser marking machine with a black handle and a silver body, mounted on a black stand. It is positioned in a futuristic, brightly lit industrial setting with orange and blue lighting. A person is visible in the background, holding a flashlight, emphasizing the machine's portability and use in various environments.

- 1**

Ultra light and convenient
Weight as low as 3kg
Compact and portable
One-handed operation
- 2**

2-in-1
Can be directly hand carved
or paired with a desktop
stand to overcome usage
limitations
- 3**

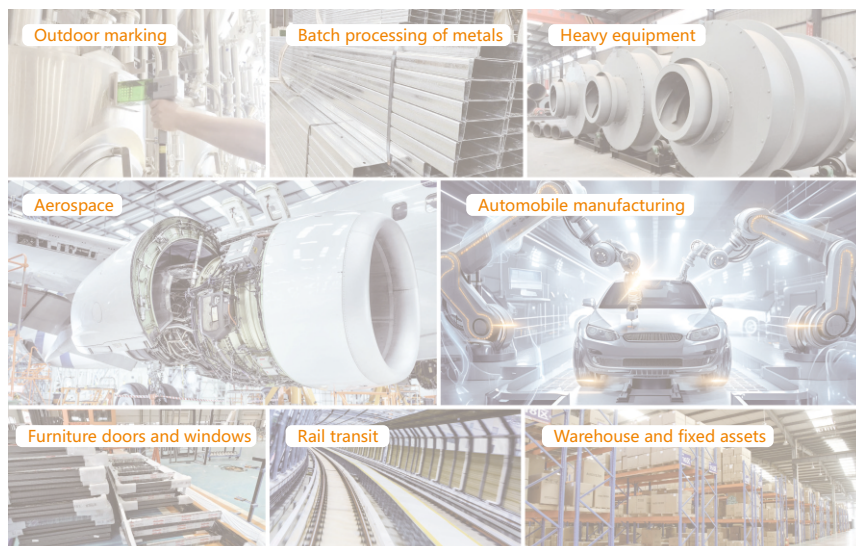
High speed precision laser
Printing speed of 7000mm/s
Printing accuracy of 0.01mm
Long service life of up to
100000 hours
- 4**

Self developed system
A self-developed control
system paired with a 7-
inch humanized intelligent
touch screen
- 5**

Long-lasting battery life
Large capacity battery
12000mAh, ultra long
working time
- 6**

All aluminum body
All aviation aluminum alloy
body is more high-end and
durable

Covering Materials And Usage Scenarios



Usage scenario

Suitable for outdoor and non moving large/heavy items, and can replace traditional desktop marking machines for batch processing.

Applicable Material

Metal

Stainless steel, carbon steel, aluminum oxide, aluminum alloy, aluminum, copper, iron, gold, silver hard alloy, etc

Nonmetal

ABS plastic, PE plastic, PVC plastic, stone, paint layer, ceramic, purple clay, paint paper, etc

Technical Specifications Table

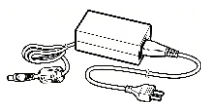
Product Model	PM-F1
Laser	Fiber laser
Outer Power	20W/30W/50W
Labeling Range	100x100mm
Deflection Galvanometer	High precision dual dimensional scanning system
Laser wavelength	1064nm
Labeling speed	≤7000mm/s
Operating system	Independent R&D
Marking and engraving type	Dot matrix and vector all-in-one machine
Line Width	0.03mm
Repetitive positioning accuracy	0.01mm
Positioning method	Red light positioning, focusing
Number of engraved character lines	Any row within the effective marking range
Font	Standard character libraries for Chinese, English, numbers, traditional, Chinese, etc
File format	BMP、 DXF、 HPGL、 JPEG. PLT
Bar code	CODE39、 CODE128、 CODE126, QR
Power	259.2Wh12Ah
Power Consumption	≤200W
Machine Operating Temperature	0-40°
Machine Weight	Plugged-in model: 3.5-4.5kg, battery model: 4.5-5.5kg

Parts List

Main Unit



Host



Power Cord/ Power Adapter



Display Screen



USB Flash Drive



Hex Wrench

Optional Accessories



Quiet Lifting Platform



Foot Switch