

EAGLE—F2—MOPA Marking Machine



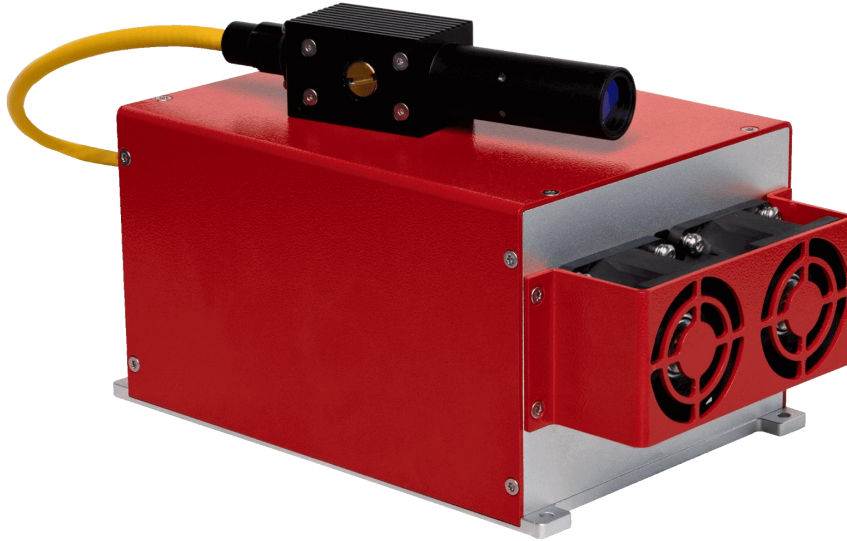
- **Split type wear-resistant aluminum case design.**
- **Built-in high-speed marking laser motion control system.**
- **The fiber laser beam has good quality, high reliability and high precision.**
- **Fast marking on metals and certain non- metal materials (such as certain hard plastics).**



Technical Specification

Model	F2-MOPA Marking Machine
Laser type	Fiber laser
Laser power	30 W
Laser wavelength	1064 nm
Working area	4inch × 4inch/7inch × 7inch
Light beam quality	<2
Marking line speed	≤5000mm/s
Minimum line width	0.03mm
Minum character	0.3mm/Depends on the material
Marking depth	≤0.5mm/Adjustable depending on the material
Repeating precision	±0.002
Power supply	Optional: AC220V/50Hz or 60Hz
Temperature/Humidity	0~35°C/10~95%
Power consumption	≤800W
Cooling system	Air cooling
The above parameters are laboratory test results, subject to actual operating conditions.	

Mopa Fiber Laser ---- M7 30W

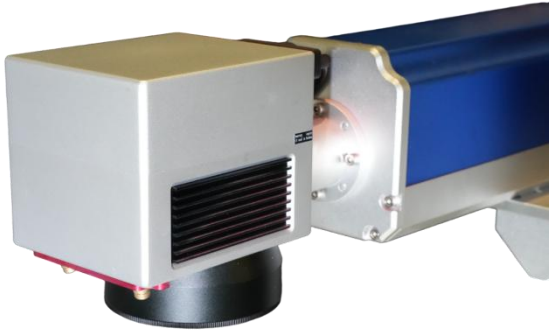


JPT M7 series high power pulsed fiber lasers make use of master oscillator power amplifier (MOPA) configuration, and show excellent laser performance as well as high level of temporal pulse shaping controllability. As compared to the Q-switching technology, the pulse repetition frequency (PRF) and pulse width can be controlled independently in MOPA configuration, through adjusting different combination of the above parameters, the peak power of laser can be well maintained. And enable JPT laser suitable for more material processing which Q-switch limited. **The higher output power makes its advantages especially in high speed marking applications.**

Parameters

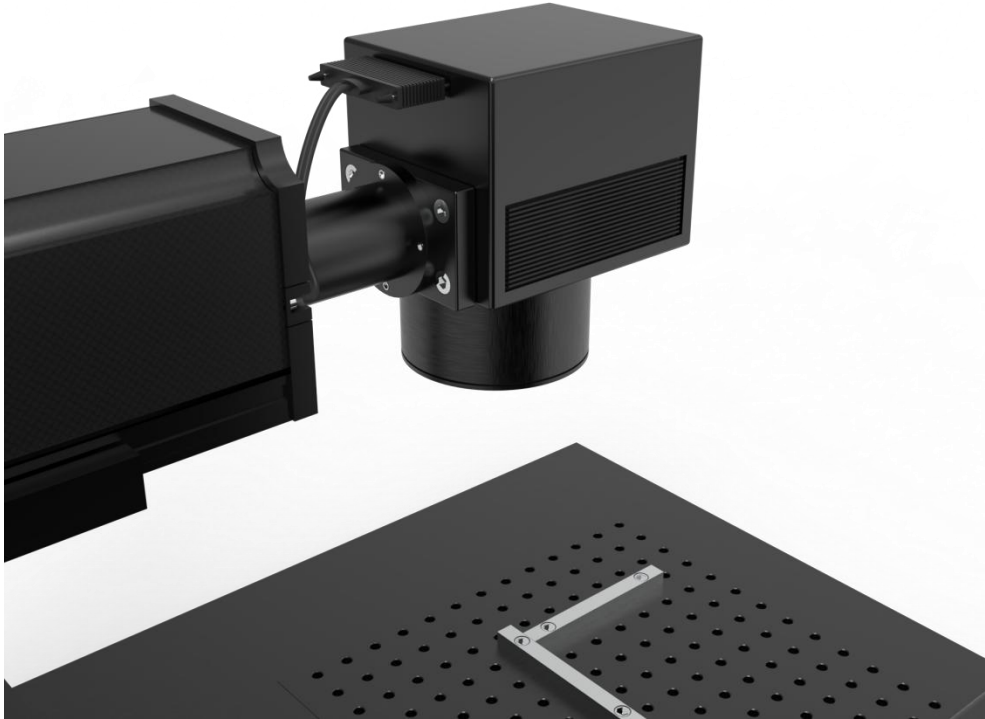
Product Model	M7
M ²	<1.4
Armored Cable Length	2m
Nominal Average Output Power	>30W
Maximum Pulse Energy	0.8mJ
Pulse Repetition Rate Range	1 ~ 4000kHz
Pulse Duration	2 ~ 350ns
Output Power Stability	5%
Cooling Method	Air Cooled
Supply DC Voltage (VDC)	24V
Maximum Power Consumption	<150W
Environmental Supply Current	>7A
Central Emission Wavelength	1064nm
Output Beam Diameter	7±0.5mm
Output Power Tuning Range	0 ~ 100%
Operation Temperature	0 ~ 40°C
Net Weight	4.25KG
Size(L×W×H)	245 × 200 × 65mm

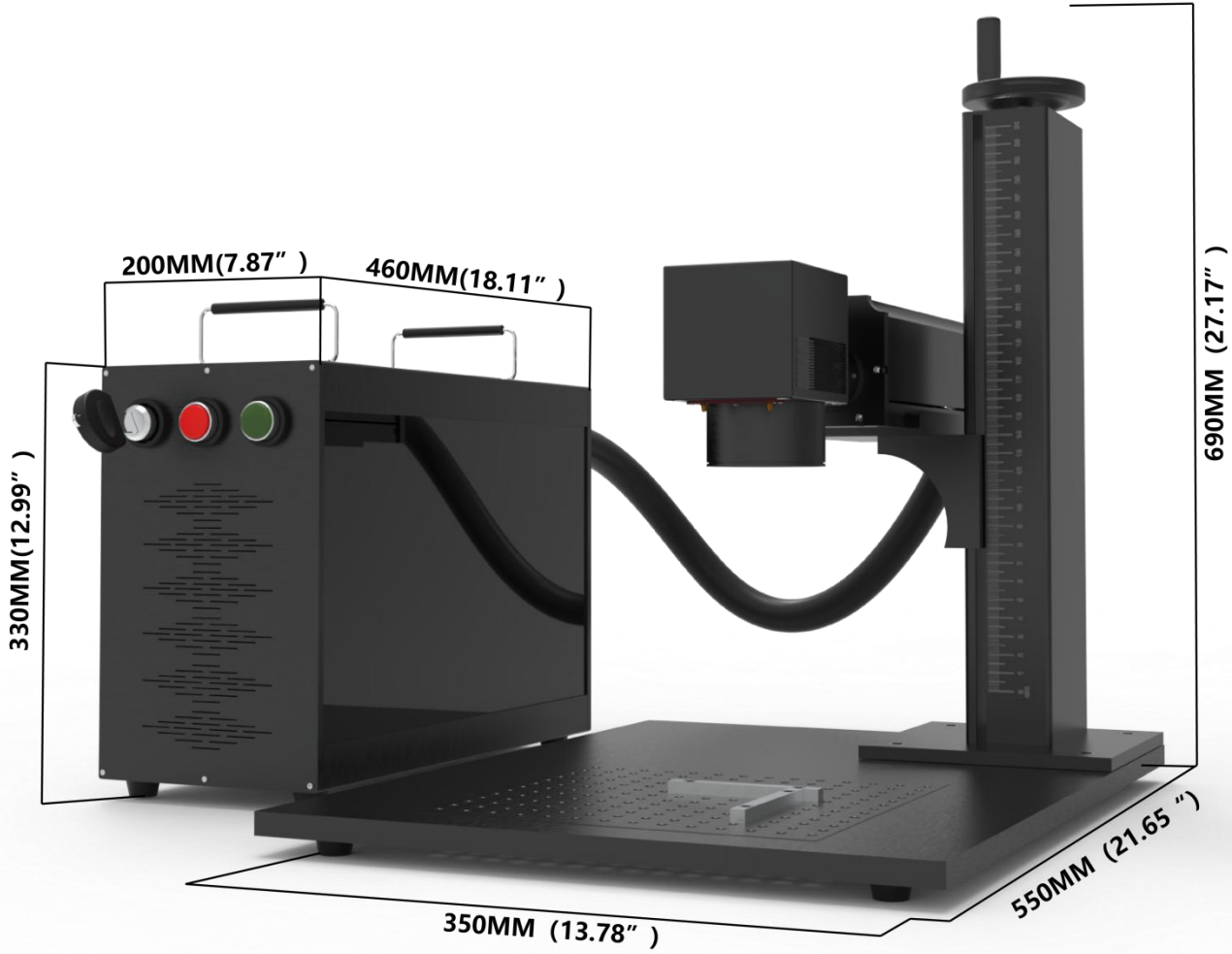
Galvo Head



- **High-precision marking:** The optical system and mechanical system of the vibration lens are well designed to achieve high-precision marking. By controlling the vibration amplitude and frequency of the galvanometer, the focusing position and spot size of the laser beam can be precisely controlled, so as to achieve high definition marking.
- **High-speed scanning:** The scanning speed of the vibrating lens is very fast, and a large area of scanning can be completed in a short time. This makes it a significant advantage in fast marking and high-speed scanning applications, which can greatly improve production efficiency.
- **Strong anti-interference ability:** The vibration lens can effectively inhibit the influence of external interference signals on the marking accuracy. Even in harsh environmental conditions, such as factory workshops or outdoor environments, it can maintain a stable marking effect.

More Details





Applications

