

INDUSTRIAL CODING
AND MARKING
SOLUTIONS

WITHLK Fiber Laser FL Tamper-Proof Marking with Light



WML-FP



Portable Fiber Laser Marking Machine WML-FP

Application of advanced fiber module, high quality output beam, suitable for delicate marking, can control size, depth, and shape accurately. Small size and fast processing speed, low energy consumption, long service life, can engrave all kinds of metal and nonmetal materials.

Main Features

1. Adopting separated design. The portable part can move according to processing demand, and mark on big and heavy materials directly, which break through the limitation of working table and bring more convenience to our respected customers.
2. Equipped with focal length adjustable protective covering, to ensure marking accuracy.
3. High quality laser path suitable for delicate marking. Reaching nearest to the limit of diffraction. Exporting TEM₀₀ of fundamental transverse mode. M₂ near to 1. Beam divergence angle is only 1/4 of diode laser. Focus dot diameter is not over 20 μm .
4. High pulse repeating rate and stable power bring high speed laser marking. Unit pulse power surge is lower than 1%. Easy control laser dot size, thickness and shape.
5. High speed 2-3 times over than traditional diode pumped marking machine.
6. Air-cooling smart machine size!
7. Long lifetime. Ultra-low power consumption of 0.5 kw. Efficiency conversion reach to over 30%.
8. Suitable for various fiber laser generators.

WML-F



Fiber laser marking machines WML-F

Application of advanced fiber module, high quality output beam, suitable for delicate marking, can control size, depth, and shape accurately. Small size and fast processing speed, low energy consumption, long service life, can engrave all kinds of metal and nonmetal materials.

Main Features

1. Updating to 3th-generation laser marking machine.
2. High quality laser path suitable for delicate marking. Reaching nearest to the limit of diffraction. Exporting TEM00 of fundamental transverse mode. M2 near to 1. Beam divergence angle is only 1/4 of diode laser. Focus dot diameter is not over 20 um.
3. High pulse repeating rate and stable power bring high speed laser marking. Unit pulse power surge is lower than 1%. Easy control laser dot size, thickness and shape.
4. High speed 2-3 times over than traditional diode pumped marking machine.
5. Air-cooling smart machine size!
6. Long lifetime. Ultra-low power consumption of 0.5 kw. Efficiency conversion reach to over 30%.
7. Color marking.

WML-FH



Hand-hold Fiber Laser Marking Machine WML-FH

Adopting separated design. The portable part can move according to processing demand. Application of advanced fiber module, high quality output beam, suitable for delicate marking, can control size, depth, and shape accurately. Small size and fast processing speed, low energy consumption, long service life, can engrave all kinds of metal and nonmetal materials

Main Features

1. Adopting separated design. The portable part can move according to processing demand, and mark on big and heavy materials directly, which break through the limitation of working table and bring more convenience to our respected customers.
2. Equipped with focal length adjustable protective covering, to ensure marking accuracy.
3. High quality laser path suitable for delicate marking. Reaching nearest to the limit of diffraction. Exporting TEM₀₀ of fundamental transverse mode. M₂ near to 1. Beam divergence angle is only 1/4 of diode laser. Focus dot diameter is not over 20 μm .
4. High pulse repeating rate and stable power bring high speed laser marking. Unit pulse power surge is lower than 1%. Easy control laser dot size, thickness and shape.
5. High speed 2-3 times over than traditional diode pumped marking machine.
6. Air-cooling smart machine size!
7. Long lifetime. Ultra-low power consumption of 0.5 kw. Efficiency conversion reach to over 30%.
8. Suitable for various fiber laser generators.

WML-FT



Desktop Fiber Laser Marking Machine WML-FT

application of advanced fiber module,
high quality output beam
Small size and fast processing speed,
low cost, Long life,
any metal or non-metal can be engraved





Main Features

1. High quality laser path suitable for delicate marking. Reaching nearest to the limit of diffraction. Exporting TEM₀₀ of fundamental transverse mode. M₂ near to 1. Beam divergence angle is only 1/4 of diode laser. Focus dot diameter is not over 20 μm .
2. High pulse repeating rate and stable power bring high speed laser marking. Unit pulse power surge is lower than 1%. Easy control laser dot size, thickness and shape.
3. High speed 2-3 times over than traditional diode pumped marking machine.
4. Air-cooling smart machine size!
5. Long lifetime. Ultra-low power consumption of 0.5 kw. Efficiency conversion reach to over 30%(Not suitable for stainless steel color marking).
6. Suitable for various fiber laser generators.

Technical Parameter

Model	WML-FP	WML-F	WML-FH	WML-FT
Laser Power	10W/20W	10W/20W/30W	10W/20W/30W	10W/20W
Laser Wavelength	1064nm			
Q-frequency	20KHz~30KHz	20KHz~100KHz	20KHz~80KHz	20KHz~30KHz
Divergence	0.3mrad			
Marking Range	100*100mm			
Minimum Line Width	0.02mm			
Minimum Character	0.15mm			
Marking Depth	0 ~0.5mm			
Engraving Line Speed	≤7000mm/s			
Repeatability Accuracy	±0.001mm			
Beam Quality	M2:1.2~1.8			
Marking Format	Graphics, Text, Bar Codes, Two-dimensional Code, Automatically Marking the Date, Batchnumber, Serialnumber, Frequency, etc.			
Graphic Format Supported	bmp, jpg, gif, tga, png, tif, ai, dxf, dst, plt, etc.			
Working Voltage	220V±10%/50Hz/4A			
Unit Power	< 0.5kw			
Use of the Environment	Clean and Dust Free or Dust less			
Working Condition: Humidity	5%-75%, Free of Condensed Water			
Laser Module Life	> 100000 hours			

Products part's

			
Good Quality Fiber Module	JCZ Control Card	High Precision Scanning head	Focus Lens

Fiber laser Source (10~30w)



Features: Making, Engraving, Micromching, Precision drilling, Welding, Cutting

Applications:

1. High efficiency
2. Good beam quality
3. Compact rugged package
4. Maintenance free operation

Lens



Galvanometer Scanner



A corner of workshop



Sample



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