

Fiber laser marking series

(Model : MF-20/30)



USAGE

The machine employs the 3rd generation fiber laser and imported high-speed galvanometer as its central devices. It is widely used for metal's surface marking, such as stainless, iron, aluminium alloy, alumina, al-mg alloy, zinc alloy, copper, nickel alloy, zinc alloy marking, etc.

ADVANTAGE

- (1) Short pulse-width, air-cooling, maintenance free, high stability, good light beam quality, long using life by the 3rd generation fiber Laser.
- (2) High processing accuracy, high marking speed and good stability base on imported high-speed galvanometer.
- (3) Convenient Operation : Convenient data processing with dedicated laser marking

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software. Interface is simple and friendly, easy operation.

(4) Available support file format: PLT、DXF、AI、SDT、BMP、JPG、JPEG、TGA、PNG、TIF、TIFF, etc.

(5) Support one-dimensional code and two-dimensional code marking such as Code39, EAN, PDF417, DATAMATRIX, etc.

(6) Option function: marking-on-the-fling, rotary marking and X.Y 2D platform.

APPLICATIONS

It is widely used for consumer electronic products, bath-sanitation, cooking utensil products, horologe shell, electronic components, medical device, hardware tools, automobile parts, food and beverage packaging, building materials, illumination, jewellery and cosmetics, etc.



Food and
beverage
packaging

Hardware tools

Consumer electronic
products

Automobile parts

TECHNICAL PARAMETER

Specifications of Fiber Laser Marking Machine				
Model	MF-20-ISM	MF-20-IQ	MF-20-DM	MF-20-DQ

Laser type	Imported fiber laser; Adjustable pulse width.	Imported fiber laser; Pulse width can not be adjusted.	Domestic fiber laser; Adjustable pulse width.	Domestic fiber laser; Pulse width can not be adjusted.
Laser power	20W (30W, 50W optional)			
Laser wavelength	1064 nm			
Laser frequency	1.6 - 1000kHz	20-200 kHz	1-1000 kHz	20-200 kHz
Peak Power Stability	$\leq 5\%$ rms			
Average Power Stability	$\leq 3\%$ rms			
Laser cooling method	Air Cooling			
Marking Depth	≤ 0.4 mm			
Marking speed	≤ 6000 mm/s			
Marking area	Stand marking size: 100 mm × 100 mm; Optional marking size: 50 mm × 50 mm~200 mm × 200 mm.			
Minimum line width	0.02 mm			
Minimum character	0.2 mm			
Repetitive of positioning accuracy	0.003 mm			
Ambient temperature	10℃-40℃			
Ambient humidity	10%-85%RH, Non-Condensing			
Power Supply	220V/50Hz			
Power of machine	600W			
Total weight	160kg			
Software language	Chinese,English,Japanese,Korean			
Font Format	Support true type including JSF, SHX,DMF			
Support bar code format	One-Dimension code:CODE39, CODE93, CODE128, EAN standard, EAN-128; Two-Dimension code: DataMatrix, QRcode, PDF417, micro QRcode			
Support file format	BMP, JPG, PNG, TIF, GIF, TGA, DXF, AI, AST, PLT			
Special custom functions	Rotating marking function(marking while rotating); Flying marking function(marking while conveyor belt moving); Add X/Y axes motion platform; Automatic loading and unloading.			

