

## CFM Series - Professional Laser Marker Machine

The open designed for easy access to the working area and movement of marking objects. Sturdy & rugged designed M.S. structure for years of operation. Auto head adjustment for positioning samples. Standard Joystick for easy operation.

The Open LASER Marker is also equipped with optional rotary axis device which facilitates LASER Markings on curved surfaces such as the inner or the outer face of rings, bangles and bracelets.

The "OPEN" Laser Marker is able to meet the highest standards of quality set by the most renowned producers of high end jewellery. It is perfect for engraving all types of precious and semi-precious metals, steel, titanium and many other materials, metallic and non.



### Technology

Based on Ytterbium Fiber Laser Which is highly reliable laser source.

### Marking

Able to mark all metal and some non metal materials. marking minimum lines width of 0.03 mm, minimum height of 0.3 mm for english characters and depth of up to 1mm.

### Dependability

Sturdy frame structure for lowest vibration and trouble free operation makes it ideal for continues operation like Hallmarking Centers & Jewellery Factories.

### Convenience

Latest Air Cool Technology makes this machine work on a low power consumption of below 800W\* thus makes it most energy savings.

### Compact

Ergonomically designed & can easily connect with Laptop (Optional), make this machine very compact & can be placed on workstation, taking up a small working space convenient to use for small factories & showrooms.

### Ease

Support for auto-coding, serial number, batch number, date bar code and two dimensional codes.

### Compatibility

WINDOWS based marking software, able to read CORELDRAW, AUTOCAD, PHOTOSHOP and other commonly used graphic files, such as AI, PLT, DXF, BMP, JPEG.

## Flexibility

Optional Motorised Rotary Marking Device for accurate & continuous 360° marking inside or outside bangles & Rings.

## Low Maintenance

Complete enclosed laser module design with the optical fiber transmission pump light source & air cooling systems, which offers better protection for the laser devices hence reducing the failure rate.

## Technical Specifications

MODEL	CFM 10F	CFM 20F
Laser Source	Ytterbium Fiber Pulsed Laser	
Average Power	10W	20W
Lunghezza d'onda	1064nm	
Beam Quality M <sup>2</sup>	M <sup>2</sup> >1.6	
Pulse Width	130ns @ 20KHz	
Max Energy	0.6mJ	1mJ
Laser guide	Double laser diode 650nm 2mW	
Repetition rate	20Hz - 100KHz	
Marking area	70 x 70mm / 100 x 100mm (Optional)	
Velocity	<15.000 mm/sec	
Z Axis	300mm	
Laser Frequency	20 - 100kHz	
Cooling system	Ad aria	
Minimum width	0.03mm	
Minimum character	0.3mm	
Repeatibility	0.003mm	
Power absorption	500W	800W
Power Supply	220V AC, 60Hz / 1P / 4A or 110V / 50Hz / 1P / 8A	
Size	600mm x 460mm x 530mm	
Weigth	45kg	