



The F-Box Fiber Laser Marking System marks surfaces of suitable Materials with an invisible Laser beam (1064nm). The System has been manufactured to up to date standards and Safety Regulations Requirements. There is, nevertheless, a risk of harm and/or injuries to other Goods or Personnel.

F-Box

Weight: 70kg

Dimensions: L 768mm * W 430mm * H 744.90mm Max. workpiece size: L 240mm * W 360mm * H 300mm

Includes a focus finder and electrical Z-Axis

Operating Conditions

Environmental Conditions

Operating Condition.: Dust free, no radiation Operating Temp.: 15°C to 25°C (room temp.)

Storage Temp.: 0°C to 40°C

Relative Humidity: max. 90% (non condensing)

Max. elevation above NN:max. 1000m



Currents

Mains: 220 V AC single phase

Mains Tolerance: ±10 % Frequency: 50 - 60 Hz

Harmonic Distorsion: max. 10 %

max. Interuption: 3 ms

Power Consumption: max. 600 W (FBox-20Q)

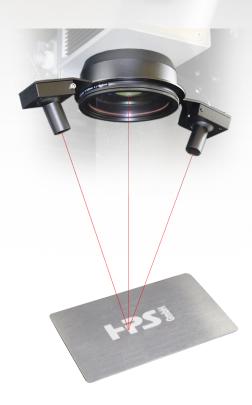
System connection and driver setup

The FBox Laser Marking System supports USB connection to the computer, which should meet below requirements

- CPU Core i3 or above
- USB 2.0 port or above
- · Windows 2000 SP3, XP, Vista, Win 7, Win 8, Win 10
- · RAM 1G or above, HDD 32G or above
- · Display SVGA color

If users need to create graphic vector files for marking on the same computer, please refer to requiremnts from according software.









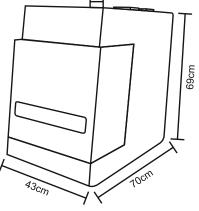
Laser source	Q-switched Fiber Laser	EPS		
Nominal Laser Power	30W	HIGH PRECISION SYSTEMS		
Beam Quality M²	<1.8		Q.	
Beam Diameter	6-9mm		BLDC:	
Pulse Width	90~110ns		HIGH PRECISION SYSTEMS	ı
Frequency	30-60 KHz			
Pulse per Eenergy	1mj			
Peak Power	11 KW			
Long-term Power Instabilit	5%			
Cooling System	Air Cooling			
Aiming Diode	Intergrated Visible Red Lase	Diode, λ=635nm		
Laser Protection Class	LASER CLASS 1			

FBox

Weight	70kg
Dimensions	L 768mm * W 430mm * H 744.90mm
Electrical Connection Valu	es 115V - 230V VAC 50 - 60 Hz
Operating Temperature	+10 to +35 °C (46 to 95°F)
Humidity	< 90% non-condensing
Max. workpiece size	L 240mm * W 360mm * H 300mm

Scan Head

F-Theta Lens	FL 160/163
Marking Area	100 * 100 mm
Spot Size in Focus	0.15mm



Min. Line Width	0.01mm
Min. Character	0.15mm
Working Distance (to Lens)	180±2mm
Scan Speed	Up to 5000 mm/s

Marking Software

	Min. Hardware Requirements	
30	Operating System	Windows XP, Win 7, Win 8, Win 10
	Min. Memory	RAM 1G or above, HDD 32G or above
	Display	SVGA Color

Text

Fonts	True-Type (filled/unfilled), Single-Line Fonts	
Orientation	User Defined	
Letter Spacing	User Defined	
Arc Text	Scalable and adjustable	

Graphic

Elements	Line, Rectangle, Circle, Ellipse (filled/ unfilled)	
Formats	<u>Vector:</u> *.plt, *.dxf, *.ai, *.svg <u>BMP:</u> *.bmp, *.jpg, *.jpeg, *.gif, *.png	

Specials

Specials	
Focus finder	
Electrical Z-Axis	
Live View	

