





<b>Fly-Mark Fiber Laser Marking Machine</b> <b>Model: EtchON FLE407D</b> <b>HSN Code: 84561000</b>	<b>Connect: +91-7770019657, 59, 9923638463</b>		
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**Type: Fiber Laser 20W**



**Samples**



## Features of the Machine

- Industrial laser engraving is rapidly growing industry in the world. Particularly because there is virtually no limit to the number of materials that can be engraved whether you are using metal or non-metal. The operation is simple, lifelong maintenance – free, and the failure rate of the optical fiber marking is low
- EtchON FLE407D, is the Fly-Mark type fiber laser marking machine with 20W Laser source (ARCIS, JPT, Raycus or IPG) and power can be upgraded to 30W and 50W as per the requirement.
- This model can be integrated with conveyor and can be used with encoder and sensor.
- Precise scanning system- High speed scanning system has been used in the system to get the speedy and precise results in marking.
- The laser head is sealed so as to prevent the optical chamber from Contamination.
- Precision Field Mirror Stable Performance: Good light perception, good beam quality, improve the edge of the light beam incident on the detector's ability.
- High service life of upto 10 years of the laser source making it more reliable and energy saving, over 100,000 hours of reliable, maintenance-free performance
- Professional Laser marking software with a user-friendly interface and the controls that allows the connection to multiple laser systems with One Computer.
- The front panel control module includes the system switch, computer on/off push button, function indicators, main power control MCB.
- This model can be fit in production or assembly line whereas it is equipped with split type controller and laser beam is mounted on column of movable trolley platform.
- Column with manual up and down up to 1000mm where 900 mm is workable travel.
- Dust and Oil resistant IP65 Switches and Connectors are used.
- Adopt air cooling method, without any consumables. Built-in air-cooling system.

## Laser Machine Delivery Package

- Separate Controller Box (Located on Base of Column)
- 900 mm Column with manual hand wheel for up and down laser beam motion
- Laser beam isolator mounted on the column beam
- 8" Fly Mark Standalone Touch Screen LCD (Software Inbuilt)
- Foot Switch
- Power Data Cable
- Driver CD with e-Manual

## Packaging Details

- Machine Actual Size (L\*B\*H) cm:
- Machine Actual Weight (kg):
- Box Packaging Size (L\*B\*H):
- Gross Weight (kg):

<b>Laser Specifications</b>	
<b>Model</b>	: <b>EtchON FLE407D</b>
<b>Type of Model</b>	: Fly Mark Fiber Laser Machine
<b>Standard Marking Area</b>	: 110 mm x 110 mm (Optional 150x150, 175x175, 200 x200, 220x220, 250x250, 300x300)
<b>Laser Source</b>	: MAX, RAYCUS, JPT (IPG Optional)
<b>Laser Type</b>	: High Energy Ytterbium Fiber Lasers,
<b>Mode of Operation</b>	: Pulsed
<b>Nominal Average Output Power</b>	: 20W (Optional 30W and 50W)
<b>Central Emission Wavelength</b>	: 1060-1070 nm
<b>Power Adjustment Range</b>	: 10-100%
<b>Repetition Frequency</b>	: 20-80 kHz
<b>Output Beam Quality</b>	: M2:1.2~1.8
<b>Marking Linear Depth</b>	: 0.01 – 0.2 mm
<b>Min Spot Diameter</b>	: 0.01 mm
<b>Min Character Size</b>	: 0.1 mm
<b>Repetition accuracy</b>	: ±0.002 mm
<b>Max Linear Marking Speed</b>	: 0-9000 to 0-12000 mm/s (Depends upon the application)
<b>Power Consumed</b>	: 600W
<b>Electrical Requirement</b>	: AC220 ± 10%, 50Hz, 10 Amp
<b>Cooling Method</b>	: Air Cooled
<b>Operational Temperature Range</b>	: 10-40 ± °C
<b>Continuous Working Time</b>	: 12 Hours

<b>Laser Machine Spares</b>	
<b>Parts</b>	<b>Make / Specification</b>
<b>Laser Source</b>	MAX, RAYCUS, JPT (IPG Optional)
<b>Galvo Head</b>	EMC/Sino-Galvo/ Hans
<b>Galvo Lens (F-Theta Lens)</b>	Imported
<b>Control System / Software</b>	JCZ EZCAD (Fly Mark Standalone System)
<b>Red Light Focus</b>	Inbuilt in Source / Separate Combiner
<b>Red Light Indicator</b>	Separate Pointers
<b>Column Type</b>	Manual up and down 900mm
<b>Switches / Control Buttons</b>	IP 65 Standards Switches
<b>Laser Power Supply</b>	All in one / Hengfu
<b>Scan Head Power Supply</b>	All in One / Hengfu
<b>Control Card Power Supply</b>	All in One / Meanwell
<b>Computer System</b>	16.5" LED Screen with wireless keyboard and mouse (FLECAD Main Board) or Desktop PC Set or 10" Inbuilt Software Touch screen with wireless keyboard and mouse (EzCAD Main Board) <b>at customers scope.</b>

<b>Software Features: (FLECAD (Standalone / EZCAD (PC based))</b>	
• True Type / Single Stroke Fonts	• Elliptical Fonts
• Fixed Data (Text) Marking Automatic Serial Numbers	• Marking Automatic Serial Numbers
• Barcodes / QR Code / Data Matrix 2D Code	• Logo / Graphics /Text
• Photo Quality Images – JPG /TIF /GIF	• CAD Files
• Auto Shift / Auto Date Marking /Auto Time Marking	• Data Input from external file for marking
• Supports SQL database	• Supports Rotary Marking
• Supports multiple boards controller by one PC	• Stable Software





<b>Application Material</b>		
• Stainless Steel	• Steel	• Aluminum
• Carbide	• Nickel	• Titanium
• Cast Iron	• Chrome	• Copper
• Brass	• Painted Metal Alloys	• Multi Coated Metals
• PVC	• Composites	• Backlite Buttons
• Polycarbonates	• Coated Glass	• And Many Other metals

## **Fiber Laser Machine Upgrade Accessories**









### **\*Upgrade Enclosures Body for EtchON 401D Optional**






### **\* Upgrade of Source for all models Optional**

<p><b>Upgrade to 30W</b></p>  <p><b>ETCHON F-UPG LS30</b></p>	<p><b>Upgrade to 50W</b></p>  <p><b>ETCHON F-UPG LS50</b></p>	<p><b>Upgrade to 20W IPG</b></p>  <p><b>ETCHON F-UPG LS20 IPG</b></p>	<p><b>Upgrade 30W IPG</b></p>  <p><b>ETCHON F-UPG LS20 IPG</b></p>
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**\*Upgrade of Working Area**

<p><b>Upgrade to 200 x 200mm Working</b></p> 	<p><b>Upgrade to 250 x 250mm Working</b></p> 	<p><b>Upgrade to 300 x 300mm Working</b></p> 	<p><b>Upgrade to Step Motorized Up and Down Column (500,600 &amp; 800mm)</b></p> 	<p><b>Upgrade to Gear Motorized Up and Down Column (500,600 &amp; 800mm)</b></p> 
<p><b>ETCHON F-UPG FT20</b></p> <p><b>Upgrade to 600 mm Manual Column</b></p>	<p><b>ETCHON F-UPG FT25</b></p> <p><b>Upgrade to 800 mm Manual Column</b></p>	<p><b>ETCHON F-UPG FT30</b></p> <p><b>Upgrade to 800 mm Manual Column</b></p>	<p><b>ETCHON F-UPG CLM50/ 60/ 80</b></p>	<p><b>ETCHON F-UPG CLM50/60/80</b></p>
 <p><b>ETCHON F-UPG CLM60</b></p>	 <p><b>ETCHON F-UPG CLM80</b></p>	 <p><b>ETCHON F-UPG CLM80</b></p>		

**\*Upgrade of Rotary Horizontal and Vertical Indexing Unit**

<p><b>Upgrade to Rotary Fixture</b></p>  <p><b>ETCHON F-UPG RF</b></p>	<p><b>Upgrade to Rotary Fixture</b></p>  <p><b>ETCHON F-UPG RF</b></p>	<p><b>Upgrade to 360 Degree Horizontal Indexing</b></p>  <p><b>ETCHON F-UPG RF360H</b></p>
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**\*Upgrade of Accessories**

<p><b>UPS 1000VA (75 Mins Backup)</b></p>  <p><b>ETCHON F- UPS 1KVA</b></p>	<p><b>PANEL AC</b></p>  <p><b>ETCHON F-PAC 600</b></p>	<p><b>Vacuum Unit with Arm</b></p>  <p><b>ETCHON F-VACCUM</b></p>
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## Why to Choose EtchON Machines?

- EtchON Marks Control, we are specialised in manufacturing and integration of types of marking systems and its having manufacturing base at Aurangabad, Maharashtra
- Our products are not only Fiber Laser Engraving Machines, but Co2 Laser Marking Machine, UV Laser Marking Machine, Dot pin Marking Machine, Electro-Chemical Metal Etching Machine and its allied automations. We have installed more than 3000 machines in India and exported our products to around 60 countries.
- We provide innovate technological solutions to a wide range of customers in the fields of marking and engraving processes with the help of our team of qualified experts in mechanics, automation and instrumentation systems.
- We are highly experienced in the industry, and the sole goal of our experience staff is to identify challenges in order to offer clients innovative solutions that will yield substantial saving and improve their productivity.
- With the help of our product you can increase your efficiency by introducing a strategic production unit within your companies or by designing an overall plan to improve productivity.
- By working closely with clients' existing staff, we are able to implement solutions to meet specific needs and make a positive impact on production and quality.
- Our mission is to work alongside clients to develop efficient and affordable solutions to meet the most stringent requirements, constantly striving to keep our knowledge up to date in a world where technology is always evolving.
- We are the member of FIEO ( Federation of Indian Export Organisations), EEPC (Engineering Export Promotion Council of India) and MASSIA (Manufacturing Association of Small Scale Industries Aurangabad) and feathered with Industry Excellence Award, Iconic Brand of the Year, Best Pavilion ITF Bangkok, Iconic Brand of the Year, Best Employer Award, Best MSME and Innovative Business Award.

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