EtchON Marks Control

Manufacturers of Fiber, Co2 & UV Laser Markers, Dot Pin Markers, Fiber Laser Welding Machine, Metal Etching Machines and allied customised automations.

Table-top Compact Fiber Laser Marking Machine (Domestic Series) **Model: EtchON FLE404D** **HSN Code: 84561000**	**Connect :** +91-7770019657, 59, 9923638463
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Type: Fiber Laser

Samples

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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 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 FLE404D, is the Domestic series table-top fixed type fiber laser marking machine with 20W Laser source (ARCIS, Raycus or JPT) and power can be upgraded to 30W and 50W as per the requirement.

- 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 and fixed so as to prevent the optical chamber from Contamination along with the controller body in a compact form as shown in the above image.

- 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 up to 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 or with an option of standalone system that is with inbuilt processor, need to attach screen, keyboard and mouse (Included in the set)

- The front panel control module includes the system switch, computer on/off push button, function indicators, main power control MCB.

- Regular Switches and Connectors are used.

- The marking head is fixed whereas the bed is movable up and down and the marking area is limited.

- Adopt air cooling method, without any consumables. Built-in air-cooling system.

Laser Machine Delivery Package

- Table-top type with inbuilt controller
- Scan head fixed and mounted on controller body
- Foot Switch.
- Power Data Cable.
- Driver CD with e-Manual
- **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) at customer's scope.**

Packaging Details

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

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Laser Specifications

Model	: EtchON FLE404D
Type of Model	: Table-Top Fixed Fiber Laser
Standard Marking Area	: 110 mm x 110 mm (Optional 150 X 150)
Laser Source	: ARCIS, Raycus or JPT (IPG Optional)
Laser Type	: High Energy Ytterbium Fiber Lasers,
Mode of Operation	: Pulsed
Nominal Average Output Power	: 20W (Optional 30W/50W)
Central Emission Wavelength	: 1060-1070 nm
Power Adjustment Range	: 10-100%
Repetition Frequency	: 20-80 kHz
Output Beam Quality	: M2:1.2~1.8
Marking Linear Depth	: 0.01 – 0.2 mm
Min Spot Diameter	: 0.01 mm
Min Character Size	: 0.1 mm
Repetition accuracy	: ±0.002 mm
Max Linear Marking Speed	: 0-7000 mm/s
Power Consumed	: 600W
Electrical Requirement	: AC220 ± 10%, 50Hz, 10 Amp
Cooling Method	: Air Cooled
Operational Temperature Range	: 10-40 ± °C
Continuous Working Time	: 12 Hours

Laser Machine Spares

Parts	**Make / Specification**
Laser Source	ARCIS, Raycus or JPT (IPG Optional)
Galvo Head	EMC/Sino-Galvo
Galvo Lens (F-Theta Lens)	Imported
Control System / Software	FLECAD (Standalone)/ EZCAD Lite (PC based or Standalone Touch screen)
Red Light Focus	Inbuilt in Source / Separate Combiner
Red Light Indicator	Inbuilt in Galvo Head or Separate Pointers
Switches / Control Buttons	Regular Switches
Laser Power Supply	All in one / Hengfu
Scan Head Power Supply	All in One / Hengfu
Control Card Power Supply	All in One / Meanwell
Computer System	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) **at customer's scope.**

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Software Features: (EZCAD (PC based) / FLECAD(Standalone)

• 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	• TCP/IP communication**
• Serial Communication PLC Support**	• Data Input from external file for marking
• Supports SQL database	• Supports Rotary Marking
• Mark on Fly high speed marking **	• Stable Software
• Powerful IO control function	• Supports multiple boards controller by one PC

** Upgrade in main board required

Fiber Laser Machine Upgrade Accessories

* Upgrade of Source for all models Optional

Upgrade to 30W	Upgrade to 50W	Upgrade to 20W IPG	Upgrade 30W IPG
ETCHON F-UPG LS30	ETCHON F-UPG LS50	ETCHON F-UPG LS20 IPG	ETCHON F-UPG LS20 IPG

*Upgrade of Rotary Horizontal and Vertical Indexing Unit

Upgrade to Rotary Fixture	Upgrade to Rotary Fixture	Upgrade to 360 Degree Horizontal Indexing
ETCHON F-UPG RF	ETCHON F-UPG RF	ETCHON F-UPG RF360H

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Application Material		
• 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

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 Dot pin Marking Machine, Electro-Chemical Metal Etching Machine, and its allied automations. We have installed more then 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.