

Desktop UV Laser Marking Machine Model: EtchON ULM501 HSN Code: 84561000	Connect: +91-7770019657, 59, 9923638463		
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Type: UV Laser



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 engraved whether you are using metal or non-metal. The operation is simple, lifelong maintenance – free, and the failure rate of the laser marking is low.

ETCHON ULM501, is the export series desktop table type UV laser marking machine with 3W UV Laser source and can be upgraded to 5W and 10W 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 so as to prevent the optical chamber from Contamination.

UV laser marking machine adopt 355nm pumped UV laser device, so as to get smaller diameter of focusing spot and fine marking effect.

The metal absorbs UV higher than infrared and therefore more suitable for UV marker marking on metal and glass materials compared with infrared pump machine.

Narrower pulse width of UV laser makes a shorter time of processing on materials; thus, the materials avoid being deformed or burnt due to thermal.

With smaller heat affected area and more beautiful marking effect, our products UV laser marking system can meet customer's demand of higher marking requirements.

The UV laser marking machine is equipped with safety shield, can effectively isolate the purple radiation, to ensure the safety of UV laser marker operators.

UV laser marking machine is equipped with professional water-cooling machine, air-cooled water circulation cooling, with water-cooled high efficiency and air-cooled small size.

Low energy consumption, environmentally friendly, no consumables. Little affect area, no heat effect, without material burned problem.

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.

Dust and Oil resistant IP65 Switches and Connectors are used

Adopt water cooling method with external chiller.

Laser Machine Delivery Package

Desktop Table with inbuilt controller
Column mounted on the desktop table with motorized up and down.
Laser beam isolator mounted on the column beam.
Chiller
Foot Switch.
Power Data Cable.
Driver CD with e-Manual

Packaging Details

<ul style="list-style-type: none"> Machine Actual Size (L*B*H) cm: Machine Actual Weight (kg): Box Packaging Size (L*B*H): Gross Weight (kg):

Laser Specifications	
Model	: EtchON ULM501
Type of Model	: Desktop UV Laser
Standard Marking Area	: 110*110mm (Optional 150x150, 200x200, 250x250 and 300x300)
Laser Source	: JPT/RFH
Laser Type	: Ultraviolet Lasers
Mode of Operation	: Pulsed
Nominal Average Output Power	: 3W (Optional 5W and 10W)
Central Emission Wavelength	: 355 nm
Power Adjustment Range	: 10-100%
Repetition Frequency	: 20-100 kHz
Marking Linear Depth	: ≤0.4mm
Minimum Line width	: 0.01mm
Min Character Size	: 0.15 mm
Repetition accuracy	: ±0.002 mm
Max Linear Marking Speed	: ≤10000mm/s
Control Interface	: Standard USB
Power Consumed	: 1000W
Electrical Requirement	: AC220 ± 10%, 50Hz, 10 Amp
Cooling Method	: Water Cooled
Working Life	: 10000 Hrs



Laser Machine Spares	
Parts	Make / Specification
Laser Source	JPT/RFH
Galvo Head	Sino-Galvo
Galvo Lens (F-Theta Lens)	Imported Germany JGS1, ZnSe
Control System / Software	EZCAD (PC based or Standalone Touch screen)
Red Light Focus	Inbuilt in Source / Separate Combiner
Red Light Indicator	Inbuilt in Galvo Head
Column Type	Manual up and down 500mm
Switches / Control Buttons	IP65 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	Desktop PC Set or 10" Inbuilt Software Touch screen with wireless keyboard and mouse (EzCAD Main Board)	
<u>Software Features: (EZCAD)</u>		
<ul style="list-style-type: none"> • True Type / Single Stroke Fonts 	<ul style="list-style-type: none"> • Elliptical Fonts 	
<ul style="list-style-type: none"> • Fixed Data (Text) Marking Automatic Serial Numbers 	<ul style="list-style-type: none"> • Marking Automatic Serial Numbers 	
<ul style="list-style-type: none"> • Barcodes / QR Code / Data Matrix 2D Code 	<ul style="list-style-type: none"> • Logo / Graphics /Text 	
<ul style="list-style-type: none"> • Photo Quality Images – JPG /TIF /GIF 	<ul style="list-style-type: none"> • CAD Files 	
<ul style="list-style-type: none"> • Auto Shift / Auto Date Marking /Auto Time Marking 	<ul style="list-style-type: none"> • TCP/IP communication** 	
<ul style="list-style-type: none"> • Serial Communication PLC Support** 	<ul style="list-style-type: none"> • Data Input from external file for marking 	
<ul style="list-style-type: none"> • Supports SQL database 	<ul style="list-style-type: none"> • Supports Rotary Marking 	
<ul style="list-style-type: none"> • Mark on Fly high speed marking** 	<ul style="list-style-type: none"> • Stable Software 	
<ul style="list-style-type: none"> • Powerful IO control function 	<ul style="list-style-type: none"> • Supports multiple boards controller by one PC 	


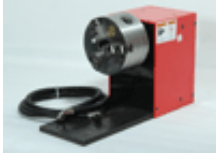

<u>Application Material</u>		
<ul style="list-style-type: none"> • Few Metals 	<ul style="list-style-type: none"> • Rubber 	<ul style="list-style-type: none"> • Glass
<ul style="list-style-type: none"> • Acrylic 	<ul style="list-style-type: none"> • PVC 	<ul style="list-style-type: none"> • Leather
<ul style="list-style-type: none"> • Ceramics 	<ul style="list-style-type: none"> • Garments 	

UV Laser Machine Upgrade Accessories




*** Upgrade of Source**

<p>Upgrade to 5W</p>  <p>ETCHON F-UPG LS5</p>	<p>Upgrade to 10W</p>  <p>ETCHON F-UPG LS10</p>
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***Upgrade of Rotary Horizontal and Vertical Indexing Unit**

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

<p>UPS 1000VA (75 Mins Backup)</p>  <p>ETCHON F- UPS 1KVA</p>	<p>PANEL AC</p>  <p>ETCHON F-PAC 600</p>	<p>Vacuum Unit with Arm</p>  <p>ETCHON F-VACCUM</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 UV Laser Marking Machine but also Fiber Laser Engraving Machines, CO2 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.