Manufactures of Etching, Marking, Engraving Machines

World Class

ETCH·ON ®

Marking Machines

Precise
& High Accuracy
Brand Marking
Solution

Fiber Laser Marking Machine

EtchON Fiber Laser Marking Machine

Industrial laser marking is rapidly growing industry in the world. Particularly because there is virtually no limit to the number of material that can be marked and engraved whether you are using metal like SS, MS, Brass, Copper, Aluminum, Coated Metal, plating metal or non metal like Plastic, ABS, Silicon Wafer, Ceramic, Epoxy Resin etc, Widely used in Electronic part and components, Electrical appliances, Telecommunication products, Visual appliance like Camera, LED Panel, LED Lights, Charger etc.
Car and motor automotive parts, instruments, plastic case, aviation, aerospace, military products, cutting tools, sanitary wears, stationers, surgical instruments, measuring instruments, clock etc. increasingly looking for laser marking and engraving solution. Hallmarking on the Silver and Gold jewellery become the dominant area in torday's arena.

Air-cooled fans draw air through
Diode cluster
Fiber coil vtterbium
Fiber coupler
Max Fiber Laser Generator (Adopt Germany IPG Technology)
Fiber optic cable
Laser beam
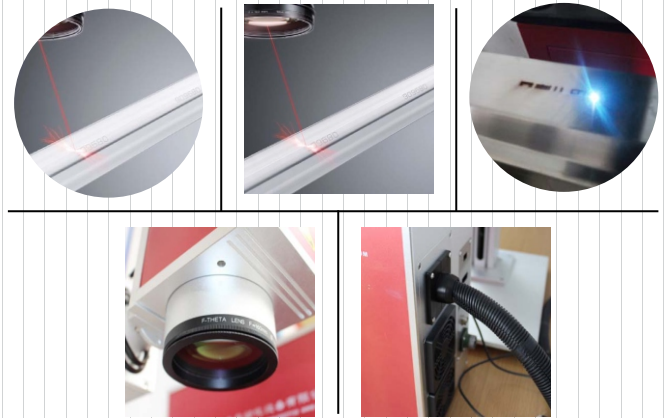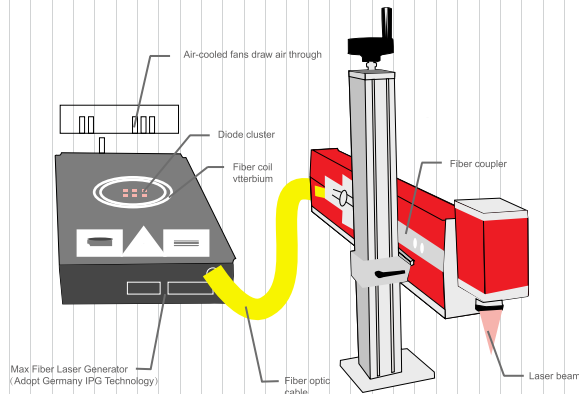
Basic Principle : The Fiber Laser Process...

The fiber marking machine offers the best electro-optical conversion rate, It is fitted with the words most advanced laser generator. The machine is superior in many ways. It is robustly built, the power output is stable, has a good air cooling system and a great design. The laser generator contains a Fiber Bundle that is doped with Ytterbium, and light emitting diodes are then pumped into it. The laser light then fiber delivered to the optical that consist of a beam expander, collimating optics and back reflection protection.

Features & Benefits

Performance
- Highly versatile and offers high precision marking
- Marks all surface with a min. line width of 0.01mm
- Bar Code /2D Code / Serial Number Marking Possible
- High Speed marking from 7000-14000 mm/s
- Support high-defination logo and image marking
- Laser Beam quality is much better then the traditional
- External Data Input Support

Reliability
- Due to EMI Filter, no fear of unstable Voltage
- Superior Quality Laser Module (Life 80-100K Hours)
- Abilty to work 24/7 with max 2/3 hours break if any
- High Speed marking from 7000-14000 mm/s

Easy of Use
- Easy to move and operate
- Desktop or portable structure as required
- Easy to handle software EtchON FLECAD (No separate PC)
- Regular Marking Software EzCAD (PC Required)
- Software Support files of .JPG / .BMP/.PLT/.DXF
- Marking Data can be picked from .TXT / .XLS
- Mainteance Free

Security
- Efficient Air Cooling System
- The High Speed Galvo make sure of marking stability
- Password Protected FLECAD Software
- CE Certified Products eliminates all risk of users

Samples

EtchON Desktop Fiber Laser Marking Machine, Model :FLE401/401D

This is the most demanded model in the fiber laser machine series, specifically used in industries for mass production, can integrate with external machines for autonomous working. This model is equipped with desktop table where controller is built in the lower portion of table, and column is placed on the top of table with laser beam, where table surface is used for job placement and movement. You can add-on more accessories on requirement like Rotary Fixture, UPS, Panel AC, Vaccum etc.

TECHNICAL FEATURES

- Model : EtchON FLE401(Export) / FLE401D (Domestic)
- Laser Source : 20W/30W (Other powers optional)
- Working Scope : 150 x 150 mm (Other areas optional)
- Scan Head Speed : 6000 - 9000 mm/Sec
- Control System : EtchON FLECAD (Standalone), EzCAD & PC (Optional)
- Column : 500mm Height (Export-Motorised, Domestic-Manual)
- Electrical Switches & Connectors : IP65 Standard (Export), Regular (Domestic)
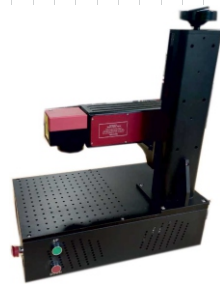
EtchON Table Top Fiber Laser Marking Machine, Model :FLE402/402D

This is compact fiber laser machine which is widely used in Jewellery Hallmarking place where space is the constraint. This model completely table top where laser bed below itself controller is integrated, and column and laser beam path is mounted on the top of bed. We use small special type of source in the controller which is made specially for this kind of controllers. As the controller is just below the bed surface, this machine can not be used in oily area. You can add-on more accessories on require-ment like Rotary Fixture, UPS, Vaccum etc.

TECHNICAL FEATURES

- Model : EtchON FLE402(Export) / FLE402D (Domestic)
- Laser Source : 20W (Other powers optional)
- Working Scope : 150 x 150 mm (Other areas optional)
- Scan Head Speed : 6000 - 9000 mm/Sec
- Control System : EtchON FLECAD (Standalone), EzCAD & PC (Optional)
- Column : 500mm Height (Export-Motorised, Domestic-Manual)
- Electrical Switches & Connectors : IP65 Standard (Export), Regular (Domestic)

EtchON Split Fiber Laser Marking Machine, Model :FLE403/403D

This is portable fiber laser machine, called split laser because its controller and working platform is totally different. This machine used in industries, sign age industries, as well as in automation. Many places space constraint comes so split laser can helpful to accommodate as required. You can add-on more accessories on requirement like Rotary Fixture, UPS, Panel AC, Vaccum etc.

TECHNICAL FEATURES

- Model : EtchON FLE403(Export) / FLE403D (Domestic)
- Laser Source : 20W /30W (Other powers optional)
- Working Scope : 150 x 150 mm (Other areas optional)
- Scan Head Speed : 6000 - 9000 mm/Sec
- Control System : EtchON FLECAD (Standalone), EzCAD & PC (Optional)
- Column : 500mm Height (Export-Motorised, Domestic-Manual)
- Electrical Switches & Connectors : IP65 Standard (Export), Regular (Domestic)

EtchON Table Top Fiber Laser Marking Machine, Model :FLE404/404D

This is again a compact fiber laser machine but used for specific application where jobs are with specific sizes and easily accommodate within the work table. This laser machine comes with fixed beam path where work table can move up and down as certain level for adjustment for focal length. Jewellery marking is one of the preferred area where this machine is used. You can add-on more accessories on requirement like Rotary Fixture, UPS, and Vaccum etc.

TECHNICAL FEATURES

- Model : EtchON FLE404(Export) / FLE404D (Domestic)
- Laser Source : 20W /30W (Other powers optional)
- Working Scope : 110 x 110 mm (Optional 75 x 75 mm)
- Scan Head Speed : 7000 mm/Sec
- Control System : EtchON FLECAD (Standalone), EzCAD & PC (Optional)
- Laser Beam Path : Fixed Beam Path
- Column : No Column, Work Table moves in Z Axis (Manual)
- Electrical Switches & Connectors : IP65 Standard (Export), Regular (Domestic)

EtchON HandHeld Portable Fiber Laser Marking Machine, Model :FLE406

This is handheld portable machine, suitable on the locations where job movement is not possible like big pipes, stainless steel plates, columns etc. Here laser beam is portable which is movable and connected with cable to controller. This machine has specific working area of 75x75mm or max 100x100mm, it can not be increased. You can not add-on more accessories to this model due to its portable nature.

TECHNICAL FEATURES

- Model : EtchON FLE406(Export)
- Laser Source : 20W/30W (Other powers optional)
- Working Scope : 75 x 75 mm (Optional 100 x 100 mm)
- Scan Head Speed : 7000 mm/Sec
- Control System : EtchON FLECAD (Standalone), EzCAD (Optional)
- Column : No Column
- Laser Beam Path : Movable Beam Path
- Electrical Switches & Connectors : IP65 Standard (Export)

EtchON Fly Mark Fiber Laser Marking Machine, Model :FLE407/407D

This is the first choice for food, beverage, pharmaceutical, tobacco, leather - automation people, as this machine is very much easy to integrate with conveyor, can be used with encoder or sensor. This machine is used for batch code, date code, bar code marking, used for fly mark on PVC pipe, cables, bottles, cans, stipe, bags etc. This machine is the replacement of convention inkjet printer, compared fly mark laser system has zero consumable consumption, no need of ink, no noise, no pollution, ener -gy saving, and environmental protective. It can fit in the production/assembly line.
This machine is equipped with split type controller with laser beam mounted on the large size column of moveable trolley platform. You can add-on more accessories on requirement like Rotary Fixture, UPS, Vaccum etc.

TECHNICAL FEATURES

- Model : EtchON FLE407(Export) / FLE407D (Domestic)
- Laser Source : 20W/30W (Other powers optional)
- Working Scope : 150 x 150 mm (Other areas optional)
- Scan Head Speed : 9000-12000 mm/Sec
- Control System : EtchON FLECAD (Standalone), EzCAD (Optional)
- Column : 1000mm Height (Manual)
- Encoder Assembly : Speed control mechanism (Optional)
- Electrical Switches & Connectors : IP65 Standard (Export), Regular (Domestic)

EtchON Fiber Laser Machine Add-on

Add-on in the laser machine, increases laser machine working effectiveness and efficiency. You can add-on more accessories on require -ment like Rotary Fixture, Name plate fixture, Indexing Fixture, Wrok Table, Customermized Fixture, UPS, Panel AC, Vaccum Pump etc.
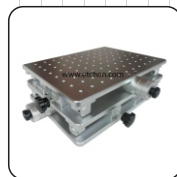
EtchON Fiber Laser Automation and Fixtures

Automation & Fixtures speeds up the marking activity. Our in-house technical team produce the jjigs-fixture and automation as per your requirement. Due to fixtures we get ease in marking opera -tion and supports to get speedy marking in batch production. Automation with fiber laser widely used in the area where marking production in high batch quantity. Automation with fiber laser can adopt different techniques and styles ..like laser machine can be connected with Conveyor or index -ing unit or some special types of fixturing which made as per custom requirement. Laser machine can be communicated with PLC where marking content will be delivered from external machines.