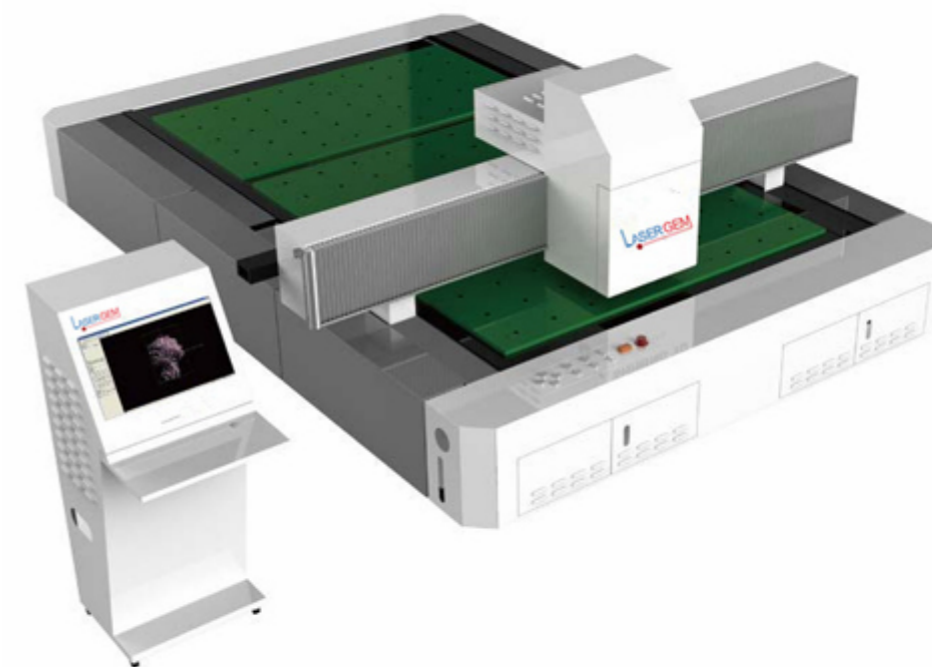




GEM

Big range glass/crystal 3D Laser Engraving Machine MONSTER series

MONSTER1210- I ,MONSTER2030- I I



GEM LASER LIMITED

A Legend Laser machine Manufacture & Solutions

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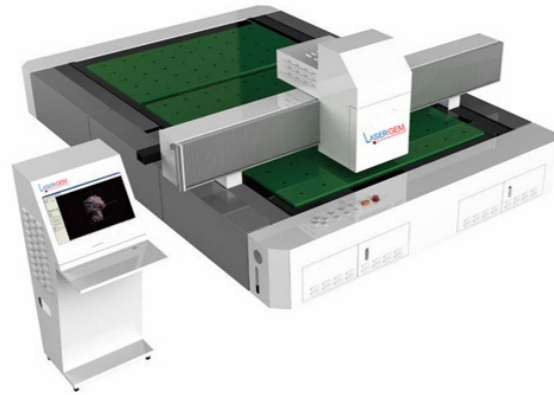
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Product Advantage



Wide Applications
 Deep relief picture engraving
 Suitable for mass production
 Big engraving range, high engraving speed
 Engraving range can be customized

OVERVIEW

Glass laser finishing combined the laser technology, electronic technique and LED technology together; it gives new possibilities to architectural decoration or design projects. Make your ideas into reality with laser technology from Shining3D, you can decorate as you want.

APPLICATIONS

2D/3D Laser Sub-surface Engraving

Glass laser finishing products has a wide application, and it can be used in 2D/3D Laser Sub-surface Engraving for all the area of glass decoration, glass furniture, glass painting, glass photo,etc.

Education

With 3D digital equipment ,3D digital software, 3D printer , kinds of CAD/CAM/CAE software , 3D scanning detection system ,3D printing and manufacturing equipment , advanced laser system, engineering training center in college is extended to an integrated platform and provide experimental support for digital research & development of products ,and machining simulation in workshop and production line

Environment-friendly
 Production process produces no dust, no harmful gas or liquid, it is totally contamination-free production process



Power Saving
 Laser subsurface engraving equipment is one of the low power consumption machinery, it only consumes 2 kilowatts per hour

SPECIFICATIONS

| Model | MONSTER1210- I | MONSTER2030- I |
|--|---|---|
| Laser | Diode pumped laser 532 nm | Diode pumped laser 532 nm |
| Diode life | 20000 hours | 20000 hours |
| MONSTERimum glass size(L*W) | 1100mm*1300mm | 2000mm*3200mm |
| MONSTERimum engraving range(mm)(L*W*H) | 1000mm*1200mm*100mm | 1850mm*2540mm*100mm |
| Machine dimension (L*W*H) | 2000mm*1500mm*1600mm | 4120mm*2870mm*1830mm |
| Point distance(mm) | 0.07-0.12mm | 0.12-0.2mm |
| Point size(μm) | 40-120μm | 40-120μm |
| MONSTERimum engraving speed | 4000 points/second | 4000 points/second |
| Expandable working area | YES | YES |
| Mass production | YES | YES |
| Selective section engraving | YES | YES |
| Assisting tools | Edge guidance and air supporting device | Edge guidance and air supporting device |
| Repeated location accuracy(X,Y axes) | <20μm | <20μm |
| Power consumption | 2KW | 2KW |
| Motor | Servo motor for XYZ axes | Servo motor for XYZ axes |
| Cooling system | air cooling system | air cooling system |
| Machine frame material and processing method | Squared steel tube welding frame | Squared steel tube welding frame |
| Machine weight | 850kg | 2400kg |

| | | |
|--------------------------------------|---|---|
| Filament accuracy | 0.023mm/300mm | 0.023mm/300mm |
| Repeated location accuracy(X,Y axes) | (TBI rolling, level C5) 0.03mm/300mm | (TBI rolling, level C5) 0.03mm/300mm |
| Motor power(X,Y,Z axes) | 850w (X/Y/Z axes) | Y axis-1.3w,X/Z axes-850w |
| Working environment | 0~30℃ | 0~30℃ |
| Humidity | less than 60%, no dew | less than 60%, no dew |
| Air | clean, noncorrosive | clean, noncorrosive |
| Voltage and current | 110-220v,20A | 110-220v,20A |
| Voltage fluctuation of power supply | <10% | <10% |
| Frequency | 50Hz | 50Hz |
| Power grid and ground wire | In accordance with the international machinery requirements | In accordance with the international machinery requirements |
| Processing material | crystal,glass, acrylic | crystal,glass, acrylic |
| Optional accessories | UPS power supply, extended rolling frame、glass sucker | UPS power supply, extended rolling frame、glass sucke |

MONSTER1210-I: entry-level glass laser engraving machine/mass production crystal laser engraving machine, suitable for making glass table,partition wall,screen,door,desk,decorative pictures, supporting mass production.

MONSTER2030-I: professional glass laser engraving machine, suitable for making large-size glass partition wall. Hallway and screen can be used as standard processing modules of laser engraving production line.

Laser Engraving Production Line: uploading module, cleaning and drying module,laser engraving module,glass cutting module,man-made loading module.