



Desktop UV Laser Marking Machine

Buy Discount Desktop UV Laser Marking Machine with Free Sample made in China. SUNNA is a Desktop UV Laser Marking Machine manufacturer and supplier in China. SUNNA TNTL UV laser marking machine is developed with a 355nm UV laser, focused spot is extremely small, which can greatly reduce the mechanical deformation of the material and has little effect on processing heat.

1. Product Introduction

UV lasers at 355nm provide a small-size spot and a large depth of focus, marking by short wavelength laser interrupts molecular chains of material, which can greatly reduces the mechanical deformation and temperature distortion of materials, it is a cold light, mainly used for super precise marking and engraving, particularly suitable for food, pharmaceutical packaging material marking, micro porous.



Desktop UV laser marking machines are known for their high absorption rates, which enable them to mark various materials with minimal heat damage and excellent contrast, especially on plastic and organic materials.

How do Desktop UV Laser Marking machine system work?

Desktop uv laser marking machine have a much shorter wavelength than fiber laser type. Using “cold processing”, this process does not produce thermal deformation (heat damage) on the inner layers and nearby areas of the target area.

A UV laser’s wavelength is one-third of standard wavelength lasers, therefore often referred to as third-harmonic generation (THG) lasers. This wavelength is achieved by passing a standard wavelength laser at 1064 nm through a non-linear crystal, reducing it to 532 nm, this is then passed through another crystal, reducing its wavelength further, down to the working 355 nm.

In summary, UV lasers work a little differently to their CO2 or Fibre based siblings as they do not damage the materials surrounding surface, using a far lower power form of marking. This makes them the best of the bunch when it comes to “marking”, suitable for anything from fruit, to glass, diamond, silicone, plastic and precious metals. You really can mark almost anything with a UV laser!

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2. Product Parameter (Specification)

Model No.	SN-UV-3W/5W	SN-UV-10W
Laser type/wave length	355nm	355nm
Laser output power	3W/5W	10W
Beam quality m^2	<1.1	<1.3
Marking speed	400 characters per second	500 characters per second
Working area	110×110mm or 150×150mm (adjustable)	110×110mm or 150×150mm (adjustable)
Machine power	800W	1200W
Power supply	380V/50-60Hz or 220V/50-60Hz	380V/50-60Hz or 220V/50-60Hz
Minimum character	0.1mm	0.1mm
Repeated accuracy	±0.001mm	±0.001mm
Minimum line width	0.015mm	0.015mm
Life of the laser machine	> 100,000 hours	> 100,000 hours
Cooling system	Water Cooling	Water Cooling
Control interface	Standard USB	Standard USB
Overall dimensions	900mm×680mm×1200mm	900mm×680mm×1200mm

3. Product Feature and Application

Desktop uv laser marking machine with high quality light beam, small focal point, ultra-fine marking.

Low energy consumption, environmentally friendly, no consumables.

Little affect area, no heat effect, without material burned problem.

Continuous operation for 24 hours meet the needs of industrialized mass production of online or offline.

High Marking Speed.With high repeat frequency of the pulse,power output steadily,energy surge of single pulse is lower than 1%,can achieve high speed marking,and control the depth and shape of the facula.

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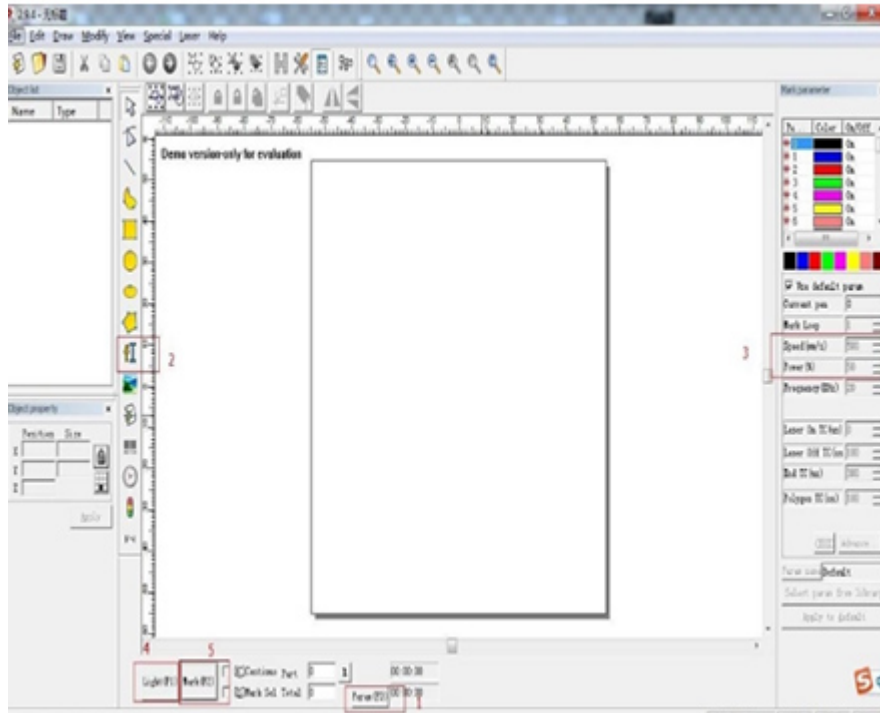
Easy Operating. Afford the specific marking software based on windows, which is real-time adjust the laser power and pulse frequency. You can edit what you need to mark directly by the specific marking software and the graphic software such as Auto CAD, CORELdraw or photoshop.

Delicate marking. High quality laser beam (near to the limit of diffraction, exporting TEM00 fundamental transverse mode, M2 near to 1, expanding angle of laser beam is only 1/4 of the diode laser marker). Therefore it is very suitable for delicate marking. from quivering and resonance during long time work.

4. Desktop UV Laser Marking Machine Main Parts



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- **High Speed Galvanometer**



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- EZCAD Software



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- High Precision Field Lens



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- **Laser safety glasses**



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- **High Quality Leadshine stepper motor**



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- **Well-known Brand Switching Power Supply**

5. Application

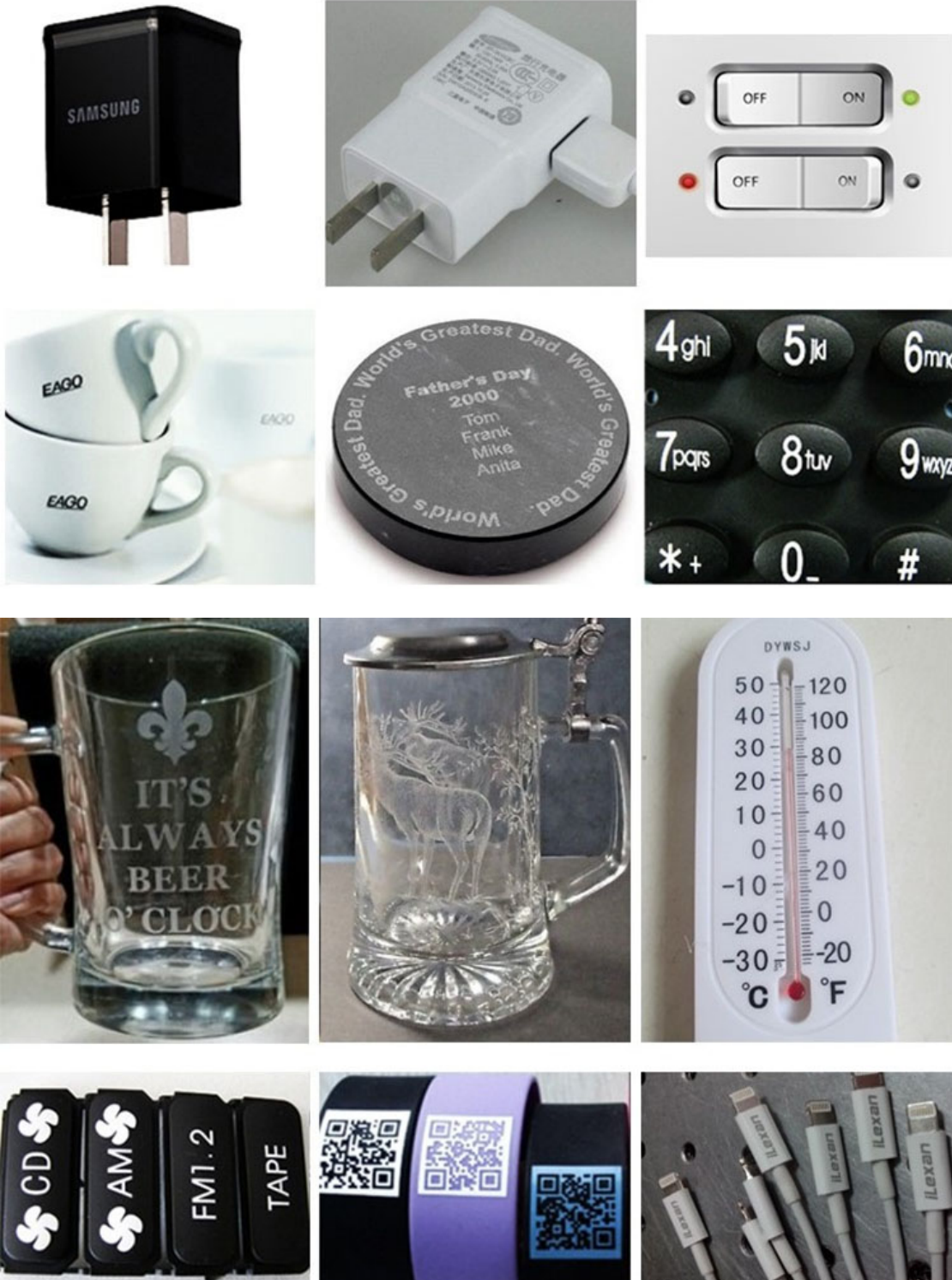
It is widely used in electronic components, battery chargers, electric wire, computer accessories, mobile phone accessories (mobile phone screen, LCD screen) and communication products.

Automobile and motorcycle spare parts, auto glass, instrument appliance, optical device, aerospace, military industry products, hardware machinery, tools, measuring tools, cutting tools, sanitary ware.

Pharmaceutical, food, beverage and cosmetics industry.

Glass, crystal products, arts and crafts of surface and internal thin film etching, ceramic cutting or engraving, clocks and watches and glasses.

It can be marked on polymer material, majority of the metal and non-metallic materials for surface processing and coating film processing, pervious to light polymer materials, plastic, fire prevention materials etc



UV Laser Marking Machine After Sales Service:

1.All of UV Laser Marking Engraving Machine will be fully-checked by our quality control department before the shipment.We guarantee all of our laser marking machines have a two -years warranty.

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2. Training details: operation principles, system and structure, safety and maintenance, software the processing technique, and so on.

3. Numerous feedback from our clients have proven that our laser machines are stable in performance with rare malfunction. However, we would like to handle it as follows function occurs:

a. We guarantee that we will give you a clear reply within 24 hours.

b. Customer service staff will assist and guide you to analyze the malfunction in order to locate the cause.

c. If the malfunction is caused by improper operation on software and other soft faults, we will help solve the problem on line.

d. We will offer plenty of online supports, just like detailed technical and installation instructions by email, video, telephone. (Training by team viewer)

4. Maintain Fiber Laser Marking Machine

In addition to the need for stable voltage, regular cleaning of the focus lens, and it does not require any maintenance.

Training to Use

We will supply you with the operation and installation manual in English version together with the machine, including introduction for the composing of equipment, working principle, common knowledge of computer, controlling principle of electronic devices, daily maintenance measures. Personal demonstration will be supplied for equipment installing, adjusting, operating and programming of computer, common malfunction eliminating measures, etc.