



50W Laser Deep Engraving Machine

The biggest characteristic of 50W Laser Deep Engraving Machine is fast marking speed and deep depth. The maximum carving depth on metal is 0.7mm. The fiber laser machine can mark metal materials such as gold, silver, aluminum, copper, carbon steel and iron. Fiber laser deep carving machine can also be in bamboo, wood, acrylic, leather, artificial leather and other non-metallic materials marking can be marked.

1. Product Introduction

Deep laser engraving is a process that uses highly focused beams of light to carve 3D forms into metal. Pulsed fiber lasers are the best tools for deep engraving because they can reach the peak power needed to carve metal surfaces.

There is not much difference between laser engraving and deep engraving. Deep carving is simply deeper, takes longer, and usually involves both visually and tactile pleasing completion requirements. If you have a deep and aesthetic need, read on to learn more.

50W Laser Deep Engraving Machine is a non-contact processing method, which does not require fixtures and tools. In addition, laser engraving is high-precision processing, especially suitable for processing complex graphics.

2. Product Parameter (Specification)

Model	SN-50F
Marking Area	110*110mm/175*175mm/200*200mm/300*300mm
Laser Power	20W/30W/50W/100W optional
Worktable	Fixed high quality aluminum worktable
Wave Length	1064nm
Fiber Cable Length	3M
Repetition	1KHZ~600KHZ

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Frequency Range	
M2	< 1.8
Max.Single Pulse Energy	1.25MJ
Output Power Stability	< 5%
Output Beam Diameter	±0.5mm
Power Range	0-100%
Laser Frequency	10~600KHz
Laser Module Life	>100,000 hours
Engraving Depth	Adjustable according to materials
Marking Format	Graphics, text, bar codes, QRcode, automatically date, batch number, serial number, etc.
Graphic format supported	Ai, plt, ;dxf, dst, svg, nc, bmp, jpg, jpeg, gif, tga, png, tiff, tif
Computer System	WINDOWS XP/Win7/8/10 32/64bits
Minimum Character	0.15mm
Minimum Linear Width	0.01mm
Cooling way	Air Cooling
Maxi Marking Speed	7000mm/s
Data Transfer:	USB2.0 transmission
Control System	EZCAD Offline Controller
Compatible Software	CorelDraw, AutoCAD,Adobe Illustrator,Cadian
Total Power	500W
Power Supply	220V±10% 50HZ or 110V±10% 60HZ
Package Weight/dimension	55KG/810*520*600mm
Option Accessories	Rotary/F-theta scan lens/Laser protection glasses/Smoke purify

	system
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3. Product Feature and Application

50W Laser Deep Engraving Machine with fast marking speed and perfect deep engraving effect, Maximum engraving depth on metal is 1.5mm.

Application

50W Laser Deep Engraving Machine is used for strong laser power widely used in metal deep engraving field, especially for firearms, jewelry engraving and cutting, Curve metal, silver, titanium, copper, alloy, aluminum, steel, zinc, all kinds of alloy steel, electrolytic plate, brass, galvanized sheet, Aluminum, all kinds of alloy plates, etc.

Some Non-metallic: non-metallic coating materials, industrial plastics, pen, hard plastics, barcode, sunglass, rubber, leather, mirror, ceramics, wood, paper, plexiglass, acrylic resin, unsaturated polyester resin material



4. Product Details

1--High-speed Galvanometer Marking speed of 50W Laser Deep Engraving Machine is faster, reducing marking time and improving work efficiency, speed up to 7000mm/s.

2--Preferred Field Lens. Use higher concentration, smaller size, thinner beam and more powerful energy.

3--Top 1 brand raycus laser source in China. Output laser power is stable .Different power option, long-life span.

4--The marking machine is easier to be assembled with fewer components, more stable operation, lower failure rate and longer service life.

5--User-Friendly Focus Ruler. Simple adjustment, higher precision, complicated program becomes simple and easy.

5. Advantages of 50W Laser Deep Engraving Machine

1--Low costs of maintenance

The galvo laser scanner is maintenance free and absolutely reliable. The energy consumption of the laser engravers is very low. Costs for consumables, spare parts or laser machine maintenance do not incur.

2--Excellent environmental suitability

50W Laser Deep Engraving Machine with strong extensive ability, the equipment can be available in all kinds of working environment , especially suitable for the unique processing and operation, convenient to be matched with other automatic equipment.

3--Software easy to operate

Fiber laser markers software acts like a printer driver. It works with all graphics, CAD and label marking software.

4--High precision laser beam

With superior laser beam, and precise light spot, it is no need to consume any items.

6. After Sales Service:

1. 50W Laser Deep 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.

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

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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.

OEM services: We have rich experience and support customization and OEM orders. All OEM services are free. Customers only need to provide us with your logo, functional requirements, colors, etc.

Global investment: We are looking for partners around the world to promote our products to more users who are interested in it. We sincerely invite you to join us.