

3D Fiber Laser Engraving Machine

——*MY-M20F-I(3D)*



3D Fiber Laser Engraving Machine

Introduction

WISELY 3D serial fiber laser marking machine adopt imported core components, with high-speed, high precision 3D galvo, and with our 3D specified software and control system, it can engrave on any curved workpieces in a fine process, there is no off-focus problem. It can also adjust focus length any time for deep engraving, which make process efficiency and marking quality much better than traditional 2D fiber laser marking machine. we make real 3D marking function come true, leading a new era of laser processing.

Application Materials

WISELY laser marking machine can work with most metal and non-metallic marking applications, such as Gold, Silver, Stainless Steel, Carbon Steel, Mild Steel, Chrome Steel, Brass, Copper, Aluminium, Acrylic, ABS, Nylon, PES, PVC, Makrolon.

Applicable Industries

Electronic Components:	Resistors, Capacitors, Chips, Printed Circuit Boards, Computer Keyboard, etc.
Mechanical Parts:	Bearings, Gears, Standard Parts,
Instrument:	Panel Board, Nameplates, Precision equipment, etc.
Hardware Tools:	Knives, Tools, Measuring Tools, Cutting Tools, etc.
Automobile Parts:	Pistons and Rings, Gears, Shafts, Bearings, Clutch, Lights, etc.
Daily Necessities:	Handicrafts, Zipper, Key Holder, Sanitary Ware, etc.

Advantages

- 1) 3D marking: can do smooth and uniform marking effect on slope, cylinder, cone, ball and so on.
- 2) Terrific big central angle marking , the max. central angle can reach 117 degree on cylinder.
- 3) Perfectly present target graphics on work pieces, avoid deforming such as elongation and slope.
- 4) Long lifespan of fiber laser source: 100 000 hours.
- 5) No Consumables: One marker can work for more than 10 years without any consumables.
- 6) The fiber laser beam comes out from the fiber device directly, no need to adjust the laser optical path.
- 7) High-stability controller, USB interface, swift and stable transmission, route optimization, intelligent calculation, easy software.

Technical Parameters

Type	MY-M20F-I (3D)
Laser Power	20W
Optional Laser Power	30W / 50W / 60W / 80W / 100W / 120W
Laser Wavelength	1064nm
Marking Area	200mm*200mm
Optional Marking Area	100*100 / 200*200 / 300*300 / 400*400 / 500*500 / 600*600mm
Max. Marking Speed	100,00mm/s
Minimum Line Width	0.03mm
Repeated Precision	±0.006mm
Fiber Laser Source	China Raycus / JPT or Germany IPG
Life-span of Fiber Laser Source	100,000 hours
Beam Quality	M2 <1.3
Focus Spot Diameter	<0.02mm
Output Power of Laser	Adjusted continuously 10%~100%
Output Frequency of Laser	Adjusted continuously 1~600KHz
Power Stability (8h)	<±1%rms
System Operation Environment	Windows XP / 7 / 8 / 10 / 11 - 32 / 64bits
Cooling Mode	Air cooling
Temperature of Operation Environment	0℃ ~ 40℃
Humidity of Operation Environment	5% ~ 75%
Power Input	220V / 50HZ/1-Ph or 110V / 60HZ/1-ph
Power Consumption	<450W
Communication Interface	USB
Dimension (L*W*H)	1120*690*1520mm
Package Size	1370*850*1650mm
Net Weight	140Kg
Gross Weight	200Kg
Optional (Not free of charge)	Rotary Device, XY Moving Table, other customized Automatic Matching System

Shipment

Within 5-12 working days after receiving your payment.

Packaging

International Standard Packing--Plywooden Case--free of fumigation.

Warranty Period

Whole machine has a warranty period of 12 months since the delivery.

Training

3 working-day training free of charge in factory. Oversea training is available, but the buyer should pay the cost including the tickets, hotel, taxi, food and

More introduction about the 3D Dynamic System

1、FeelTech 3D Scanner with CTI Motors

- 1) Equipped with CTI motors imported from USA, high precision and stability.
- 2) Fully sealed shell, **dust prevention**, compact structure.
- 3) **Double driving Z axis dynamic focus** module design, response frequency $\geq 100\text{HZ}@ \pm 10^\circ$
- 4) 40mm Focal Depth Variable.
- 5) Online **Auto Focus**.

The above elements can help you do smooth and uniform marking effect on slope, cylinder, coin, mould, ball and more.

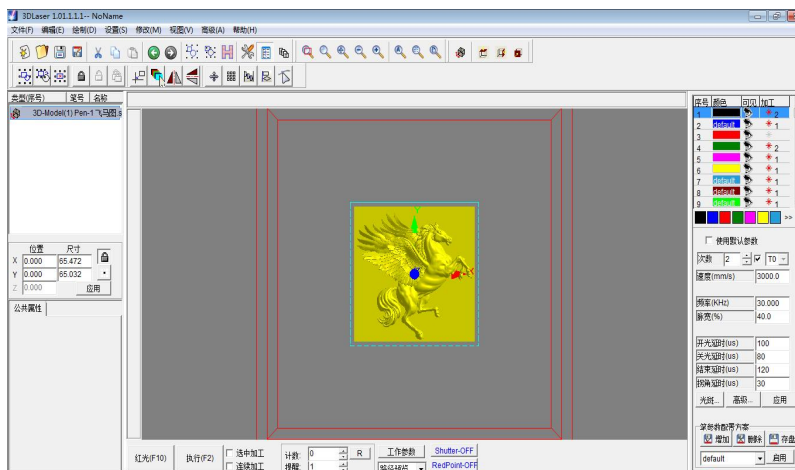
2、Compatible with CAD/CAM software

Import the 3D file designed by CAD/CAM software, adjust the paramter settings, click marking, you can get perfect result you want.

- 1) With **3D Curve Marking** Fuction (Software).
- 2) With **Embossing Marking** Fuction (Software).
- 3) With **2D Rotation Marking** Function (Software).

3、With H-series Industry Computer:

Genuine English OS W8/10 + Intel i7 CPU + 8G Kingston Storage + 120G Kingston SSD + 1TB WD HDD + Asus Motherboard + 2GB Asus Graphics Card + Asus DVD Drive + LOGI Keyboard and Mouse + DELL Monitor.



Sample Gallery

