# 3D Laser Marking Machine

## Product Introduction

With the first-class marking technology, it can work on sculptured surface without defocus. Configured with specialized 3D vibrating mirror, the 3D dynamic laser marking can control the software and hardware, and the laser beam can mark on arbitrary 3D sculptured surface.

Features:

1. High precision of 3D positioning technology
2. With friendly operation interface,
3. it is suit for many file formats, such as dxf, plt, cnc, step, iges, etc;
3. High electro-optic conversion efficiency
4.long life
5. easy maintenance;
6. Fast marking speed
7. high processing efficiency.
8. high-speed focusing and scanning system, short pulse, high-peak power

Application:

1. mobile manufacture

2. cubic circuits

3. medical equipments

4. moulds
5. 3C electronics
6. auto parts
7. electronic communication.

**Tech Parameter**

| | | | |
|---|---|---|---|
| ser Parameter | Laser Source | Fiber laser | |
| | Wavelength | 1064nm | |
| | Output Power | 20W | |
| | Laser Beam Quality $M^2$ | ＜1.2 | |
| | Pulse Repeatable Frequency | 10kHz~200kHz | |
| | Cooling Method | Air cooling | |
| Processing Parameter | Focusing Lens | Standard | Optional |
| | Processing Range | 140×140×60mm | 160×160×70mm |

| | | | |
|---|---|---|---|
| | Lens Focal Length | 200mm | 254mm |
| | Max Speed in X-Y Axis | 6m/s | |
| | Max Speed in Z Axis | 4m/s @45° | |
| | Min Linear Width | 150μm | |
| | Positioning Accuracy | 25μm | |
| | Contraposition Accuracy | 20μm | |
| Whole Machine Parameter | Operating Ambient Temperature | 18~28℃ | |
| | Power Demand | Single phase AC220V 10A | Three phase AC380V 10A |
| | Overall Power Consumption | 3KW | |
| | Dimension （width×length×height） | Mainframe 1200×1000×1610mm<br>Smoke Dust Exhaust Ventilator 680×650×1550mm | |
| | Weight | Mainframe 350kg<br>Smoke Dust Exhaust Ventilator 100kg | |