

JQ-50 Diode Side-pump Laser Marking Machine



Product Introduction

product developed by JQ Laser

JQ Diode side-pump laser marking machine is the new Company, it is updated product of YAG laser marking machine. It adopts the most advanced laser technology in the world and the imported diode laser arrays. The 808nm laser diode pumping Nd:YAG mediums produce quantity of antiparticles, which will cause 1064nm high power laser pulse output under the function of Q switch . The beam quality is very good and the line is rather nice. For the convenience of our customers, we have improved the machine structure. The optical system uses the fully sealed structure. Anyway, it looks more beautiful and easy to operate. Not only can it work alone, but also cooperate with other equipments in production line.

Machine Advantages

- p The size of JQ Diode side-pump Laser Marking Machine is small. The volume is only 1/4 of the traditional lamp pump laser.
- p The optical system uses the fully sealed structure to prevent the dust enters laser body and reduces the equipment failure rate.
- p The machine is able to preview the light path and point out the focus, which are very convenient for the materials that will be processed to be located.
- p This machine provides the precise three dimensional worktable and newest outside water-cooling system. The cooling system can control the water temperature very accurately, which ensures the long time working. Anyway, the machine movement noise is extremely low.
- p The software own intellectual property rights. It is compatible with file formats saved by CORELDRAW, AUTOCAD, PHOTOSHOP and other software can mark autocode, sequence number, batch number, date, bar code, two-dimensional code, etc. Anyway, the software can mark reversely.

Applicable Materials

This laser marking machine is widely applied in metal marking industry such as brass, titanium, steel, iron, aluminium and so on.

It can mark on many non-metals also. For example, ABS, nylon, PES, PVC, makrolon, etc.

Applicable Industries

Electronics industry, communication, electrical equipment, clock and watch, glass jewelry, dress and personal adornment, instrument, label, tag, car industry, ship-building, space flight and aviation.etc.

Machine Parameters

This Model		Optional Models	
Type	JQ-50	JQ-75	JQ-100
Laser Power	50W	75W	100W
Laser Wavelength	1064nm	1064nm	1064nm
Cooling System	Water cooling	Water cooling	Water cooling
Beam Quality	<6	<6	<6
Laser Repetition Frequency	≈50KHz	≈50KHz	≈50KHz
Marking Area	110mm*110mm	110mm*110mm	110mm*110mm
Optional Marking Area	150mm*150mm	200mm*200mm	300mm*300mm
Marking Depth	≈0.3mm	≈0.4mm	≈0.5mm
	The depth is adjustable according to different materials.		
Linear Speed	≈7000mm/s	≈7000mm/s	≈7000mm/s
Min. Line Width	0.02mm	0.02mm	0.02mm
Min. Letter	0.25mm	0.25mm	0.25mm
Repeatable Accuracy	±0.001mm	±0.001mm	±0.001mm
Gross Power	≈2.5KW	≈2.8KW	≈3.3KW
Electricity Source	220V/50Hz/15A	220V/50Hz/20A	220V/50Hz/25A

