

# Multifunctional Semiconductor End-pumped Solid Laser Marking Machine

## Specifications :

Price	Contact us
Brand Name	Hanyi
Place of Origin	China
Min.Order Quantity	1
Payment Terms	T/T
Supply Ability	1000
Delivery Detail	5 days - 20 days
Packaging Details	Standard export wooden case or carton box

## Detail Introduction :

### Brief introduction of semiconductor end-pumped solid laser marking machine

The semiconductor end-pumped laser marking system directly pumps the semiconductor pump light (808nm) from the end face of the laser crystal, and generates laser light through the output of the optical lens group, which greatly improves the laser light conversion efficiency, which can reach more than 50%. The equipment is stable and reliable, with good laser mode and high peak power. It is the current high-level semiconductor laser equipment in China.

Shanghai Hanyi Engineering Equipment Company is one of the most experienced manufacturer of Laser marking machines in China.

### 1. Optical system

The optical system includes parts such as laser, galvanometer scanning system and focusing lens.

### 2. Cooling system

The cooling system adopts a simple air cooling method, and the cooling system guarantees the long-term and stable operation of the optical system.

### 3. Features of the whole machine

\* The single-mode output beam is of good quality, the output laser spot is delicate, high stability, and the marking effect is fine.

\* The laser frequency is high, which is more suitable for marking some non-metallic materials, and the marking speed is faster.

\* The system adopts a fully air-cooled design, with good laser stability, and can operate continuously for 24 hours at room temperature.

\* The system adopts the latest end-face laser integration, fully enclosed laser cavity design, small size and low power consumption.

### 4. Performance parameters

Laser parameters	DMP-10S
Laser wavelength	1064nm
Maximum laser power	10W

Beam qualityM <sup>2</sup>	?	2.5
Marking range		100mm×100mm
Marking line speed		?12000mm/s
Q switching frequency		?100KHz
Pulse width		15-25nS
Minimum character		0.1mm
Marking line width		?0.01mm
Repeat accuracy		±0.001mm
Cooling method		Air cooling
Machine power		500KW
Power supply requirements		AC /220V/50Hz/ 10A??

### 5. Working environment requirements

Ambient temperature should be between 15-30?, without condensation. Avoid vibration and try to be as smoke-free and dust-free as possible.

Power supply grid requirements: 220V, 50Hz, no strong electromagnetic interference.

### 6. Industry application

It is suitable for marking a variety of non-metallic materials, and is more suitable for applications that require finer and higher precision.

Used in mobile phone buttons, car buttons, plastic buttons, electronic components, integrated circuits (IC), electrical appliances, mobile phone communications, reflective films, computers, digital products and other industries.

### Standard configuration of semiconductor end-pumped solid-state laser marking machine

Item	Product Name	Model /Specification	Configuration
1	Laser generator	DMP	Joint product
2	Galvanometer	High-speed scanning	JHC high-speed photoelectric ±15V
3	Focus lens	F=160	Singapore-wavelength 110*110mm
4	Beam Combiner	20X	Thunder Intensity (For Military Industry)
5	Marking software	Beijing JCZ	Beijing JCZ US
6	Laser power supply	Hengfu	12V/29A
7	Red light	5V/1A	Seplin Laser Technology Research Institute
8	Laser lift travel	Lifting beam	Trip 500mm
9	Control System Customers with computer, WIN system	/	H81 motherboard, 2G memory, 120G solid state, dual-core
10	Display	LCD	19? LCD
11	Cooling system	Air cooling	Self-installed 220V high cooling capacity fan