



HBS-DB-10A

LASER MARKING MACHINE

Technical Parameter	
Model	HBS-DB-10A
Laser Peak Power	≤50kW
Laser Wavelength	1064nm
Beam Quality	<2
Laser Repetition Frequency	≤70KHz
Marking Area	110mm x 110mm
Making Depth	≤0.5mm (Adjustable with different material)
Marking Speed	≤7000mm/s
Min. Line Width	0.02mm
Min. Character Size	0.3mm
Repetition Accuracy	±0.001mm
Power Consumption	≤500W
Power Supply	220V/50Hz/10A
Cooling method	Air Cooled



Packing

Size(mm)	880X1000X370(machine head: 300X700X720, controller:460X450X180)
N.W.(kg)	33(machine head: 18, controller: 15)
G.W.(kg)	41

Optional Lens

Focal Length	Marking Area
100mm	65mm x 65mm
250mm	175mm x 175mm

Product Introduction

- This machine uses imported solid laser parts, equipped with NLIGHT laser module from US, British Gucci Q-switch and multiple laser power protection. All of these ensures the laser machine with high efficiency, long working life and high stability.
- This system adopts air-cooled design, high-precision temperature control and excellent laser stability. It is guaranteed for 24-hours continuous operation at room temperature.

Product Features

- The peak power of laser output is high, tiny pulse width.
- Tiny laser output spot, slim marking line, competent for marking delicate and intricate graphic etc.
- Air cooled design, whole structure is compact with

small volume.

- The system is stable and easy to operate.
- English and Chinese control interface is easy to operate, and very compatible.

Product Application

- Common metal and metal alloy (all kinds of metals such as iron, aluminum, magnesium, zinc), rare metal and rare metal alloy (gold, silver and titanium); metallic oxide (all metallic oxide is possible), special surface treatment (phosphate, aluminum anodizing, electroplating); ABS material (electric appliances casing, daily utilities), ink (light button, printed material), epoxy resin (sealed packing and insulated layer of electronic components)
- The machine is widely used in electronic products such as all kinds of buttons and switches.

HBS-GQ-3D-30

3D FIBER LASER MARKING MACHINE

Technical Parameter	
System Response Time	Side slope signal less than 1ms
Position Output Impedance	1K±1%Ω
Position Signal Input Ratio	0.5V/°
Position Signal Input Range	XY2-100
Electronic Circuit Stability	20PPM
Input Voltage	±24V--±30V
Average Working Current	2.8A
Max Input Current	10A
Operating Temperature	40°C
Marking Area	300mm x 300mm



Packing

Size(mm)	1000X250X550(machine: 970X210X510)
N.W.(kg)	34 (machine: 34)
G.W.(kg)	40

Product Features and Functions

1. Product Features

- The principle of laser marking is to use the focused tiny laser beam to generate high energy and then carry out marking process.
- The laser marking is non-contact process, without mechanical compression and stress.
- Solved the problems for irregular marking, can mark on curved surface, slanted surface, stepped surface and other irregular surfaces.
- Reasonable size design, perfect heat dispersion.
- Easy-operated software and diversified marking patterns ensures profound results of 3D surface marking.

2. Products Function

- Small heat-affected zone, high-precision processing, low cost, easy-operated, non-polluting, can realize the special marking technique that conventional method can not achieve.
- With the assistance of special Z axis optical system, can use the software to control the focus without any mechanical movement within the distance of 200mm during marking.
- Marking area can reach to 1000mm x 1000mm, realize the large-size marking.
- Marking head is compatible with several of optical or non-optical devices, such as rotary axis.
- With the combination of auto-focus by software control and manual mechanical-focus, this marking head can be used in a wider varieties of applications and products.
- During marking process, the 3D controlling system can adjust laser position according to the change of product surfaces and shape, achieve perfect marking effect.

