Sintec Optronics

SJC Series Portable Handheld Laser Marking Machine

This product has a wide range of applications. It is suitable for standard metals and alloys (all metals such as iron, copper, aluminum, magnesium, zinc, etc.), rare metals and alloys (gold, silver, titanium), metal oxides (all kinds of metal oxides), special surface treatment (phosphating, aluminum anodizing, electroplating surface), and other materials. It can mark and engrave on common hardware tools, knives, kitchenware, metal jewelry, buttons, integrated circuits, packaging bottles, glasses frames**.** This marking machine can mark a clear, high resolution and provide long lasting markings on materials. The environmental requirements are simple and flexible and there is no special requirement on constant temperature and humidity, and water cooling to operate. This laser marking machine is small size, light weight, small footprint, and portable for online marking.

Product features:

- Accurate positioning: The scanning galvanometer adopts high-performance scanning devices and advanced photoelectric sensing technology. The differential photosensors can exactly detects the position of the motor rotor. It is with good linearity, has a small drift during operation, marks with high resolution and has a high accuracy on repeated positioning.
- Convenient to move: It is a portable type that can be carried anytime and anywhere, with lightweight and convenient hand tools and easy operation.
- Stable performance: with the software developed by our company, it can operate with high stability and smoothly.
- Humanized operation: with adoption of touch screen technology, the operation is simple and easy to use. It supports switching between Chinese and English language, and able to handle multiple file formats such as QR codes and barcodes through USB.
- Widely applicable materials: Suitable for most of metal materials, such as stainless steel, carbon steel, aluminum, iron, copper, zinc, etc., with clear and high-resolution markings.
- Various application industries: widely used in electronic components, hardware tools, electrical products, consumer goods, sensors, auto parts, 3C electronics, handicrafts, precision equipment, gift accessories, medical equipment, high and low voltage electrical appliances, bathroom industry, battery industry, IT industry and other fields.

Product model:

SJC - Laser wavelength - Laser power - Marking area, such as SJC-1064-20-70.

Technical specifications:

Shell material	Engineering Plastic
Laser type	1064nm fiber laser
Marking format	70×70mm (standard)/ 100 × 100mm (optional)
Marking speed	8000mm/s (marked as 1mm high singlet)
Power supply	220VAC 50/60Hz
Battery capacity	16AH
Full charge time	Approximately 2.5H (measured in of 25°C laboratory environment)
Usage time	Approximately 4H (measured in 25°C laboratory environment)
Average laser power	≥20W
Max Power consumption	≤330W
Cooling method	Air cooling
Operating system	Linux
Expansion port	2×USB3.0
Screen brightness	300cd/m ²
Support file formats	Vector files (DXF, PLT, SVG), Image files (bmp, jpg, png), QR codes, barcodes
working temperature	0°C - 45 °C
Storage temperature	-10°C - 60 °C
Chassis size ((L x W x H)	345×311×222 (mm)
Hand tool weight	~0.9kg
Overall weight (hand tools + machine)	~9.7kg