

Handheld Portable Fiber Laser Marking Machine

GENUINE 50 W | Model: STROVOLT-LMM-50H

FACTORY QC VERIFIED
Factory-measured 51.8 W | QC PASS



STROVOLT-LMM-50H — Power & Control Unit

PRODUCT OVERVIEW

The STROVOLT-LMM-50H is an ultra-compact, fully self-contained marking system weighing only ~6 kg. With its built-in 7-inch touch screen and embedded Linux controller, it requires no external computer. Delivers permanent, high-contrast marks on metals and engineering plastics — in the field or on the line.

KEY FEATURES

- ◆ **Genuine 50 W Laser Source**
Factory-verified MAX Photonics MFP-50M, 51.8 W measured
- ◆ **Truly Portable Design**
~6 kg total weight; integrated handheld form factor
- ◆ **No PC Required**
Embedded 7" touch screen with Linux OS
- ◆ **All-in-One Marking Engine**
Dot-matrix + vector marking in one unit
- ◆ **Red-Light Positioning**
Fast, accurate part alignment in any environment
- ◆ **Air Cooled**
Plug-in powered; optional battery pack available
- ◆ **Zero Consumables**
Permanent marking — no ink, chemicals or etching
- ◆ **Wide Code Support**
QR, DataMatrix, Code128, EAN, PDF417, and more



7" Touch Screen Controller

Scan & Discover



LASER SOURCE

Laser type	Pulsed fiber laser
Laser source	MAX Photonics MFP-50M (QC verified)
Rated output power	50 W GENUINE — factory-measured 51.8 W (QC PASS)
Laser wavelength	1064 ± 4 nm
Beam quality (M ²)	< 1.5 (TEM00)
Pulse repetition frequency	45 – 170 kHz (adjustable)
Pulse width	80 – 110 ns
Output beam diameter	6 – 8 mm
Power adjustment range	10 – 100 %
Output power stability	≤ ±2 %

MARKING PERFORMANCE

Marking method	High-precision 2D scanning
Marking line type	Dot-matrix + vector (all-in-one)
Marking speed	≤ 7,000 mm/s
Marking rate	Up to 650 characters/second
Minimum line width	0.01 mm
Minimum character size	0.2 mm
Repeat positioning accuracy	± 0.01 mm
Marking area	50×50 mm / 110×110 mm (150×150 mm optional)
Galvo mirror size	8.5 mm
Positioning method	Red-light positioning

CONTROL & INTERFACE

Main control board	Highly integrated, embedded 7-inch touch screen
Operating system	Linux (no external PC required)
Font support	English / Korean / Russian / Arabic / Chinese + standard
File formats	BMP / DXF / HPGL / JPEG / PLT / AI
Barcode / 2D code	Code39, Code128, EAN13, PDF417, QR, Aztec, DataMatrix, DotCode
Laser module voltage	24 V DC / DB25
Output fiber length	3 m (armoured)

PHYSICAL & ENVIRONMENTAL

Cooling method	Air cooling
Power supply	AC 220 V ±10 %, 50/60 Hz Battery optional
Max power consumption	≤ 500 W
Net weight	≈ 6 kg
Operating temperature	0 – 40 °C
Ambient humidity	30 – 85 % RH
QC traceability	Factory Delivery Qualification Test Report per unit

TYPICAL APPLICATIONS

- Stainless / carbon steel & aluminium parts
- Tools, dies and bearings
- Nameplates and ID plates
- Electronic components and PCBs
- Automotive and machined components
- Serial numbers, barcodes and QR codes
- Promotional metal items and jewellery
- On-site field marking of large/ fixed assets

Scan & Discover

