

Superpro

Laser Marker XLM-04

Rev. 01

Introduction

Document

Info	Content
Keywords	Laser Marker, Tape, Tray
Abstract	This document describes the laser marker from XELTEK



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1. System introduction

The XLM-04 laser marker system consists of the laser generator, digital scanning system and the lens.

It's special designed for the Super Bot series programming machines. After programming, the XLM laser marker will automatically engrave marks on the chips in tape or tray.

The focus of the lens for the tray and the tape are different.

Laser is outputted by EDFA and then go through the High-speed digital scanning system. With stable output power, advanced optical mode, excellent beam quality, fast marking speed, high efficiency, the XLM-04 works perfectly during the massive production.



XML+Autotray



XML+Tapeout



"C619" mark sample

TIPS: Number, characters and symbols all can be used with XLM.

2. Equipment Characters

1. Do no harm to human because of the laser wavelength.
2. Long working life, small size.
3. Humanized operation process.
4. Stable beam quality because the output laser is not modulated.
5. Especially suitable for fine and precision marking.
6. High electron-optic conversion, 50w power consumption
7. Air cooling, no maintenance, suitable for harsh environment.
8. Especially suitable for fine and precision marking.

Laser output stability test:



In the case of maximum power, the fluctuation of output power is controlled at 0.5; the adjustable range of laser power is 3-100.

Output laser has no modulation, no peak power, so it only works on some non-metallic surfaces, laser single mode output, excellent beam quality, laser wavelength 1.064um

3. Specification

number	Technical indicators	Technical parameters
1、	The laser work material	Yb
2、	The laser wavelength	1.064um
3、	Pump form	fiber
4、	The laser power output	15W
5、	Power consumption	300W
6、	Optical quality	Tem 00 mode
7、	Power supply	220V/50Hz
8、	Stability of laser	≤1%
9、	The galvanometer system	Digital scanning system
10、	Marking range	70mmx70mm~300mmx300mm
11、	The resolution	≤4um
12、	drift	Max 15um/°C
13、	Scanning speed	≥1200mm/s
14、	Cooling form	Air cooling