

AUTOMATIC FIBER LASER MARKER SYSTEM CODE RBT-LMT01

CUSTOMIZED ACCORDING TO THE
CUSTOMER'S WORKPIECE



- 6-axis industrial robot for high speed and precision, IP67, triple protection
- Laser can be customized according to customer workpiece types
- Control system Modbus Tcp via bus communication, high speed, high efficiency and easy to extend

OPERATION PROCESS

- Step 1: Place the workpiece manually on the positioning block in the loading area and position it on the right side against the edge.
- Step 2: Press the reset button to return the robot to the initial position.
- Step 3: Press the start button, the system prompts whether the workpiece is correctly placed and click OK.
- Step 4: The robot grasps the workpiece and moves it to the positioning area of the laser marking station.
- Step 5: The robot drives the workpiece to descend precisely to the focal position of laser marking.
- Step 6: Laser marker runs preset program, marks clamped workpiece and outputs finish signal synchronously.
- Step 7: Robot lifts clamped workpiece out of marking area and transfers to outer sorting station.

SPECIFICATION

Robot	robot arm spreading	707mm
	Max. working speed	400°/s
	Max. weight of workpiece	7kg
	repeat positioning accuracy	±0.02mm
	number of control axis	6
	communication protocols	ethernet modbus tcp
Fiber laser marker	laser wavelength	1064nm
	marking area	160×160mm
	marking speed	≤9000mm/s
	marking depth	≤1.5mm
	minimum line width	0.01mm
	minimum character sizw	0.15mm
	repetition accuracy	±0.01mm
	cooling method	air cooling
	laser type*	Q-switched pulse
	laser power**	20W

* MOPA lasers can be customized

** laser power can be customized

STANDARD DELIVERY

Robotic system	robot body	1 pc
	robot control cabinet	1 pc
	programming guide	1 pc
Fiber laser marker	main unit	1 pc
	control cabinet	1 pc
	touch display	1 pc
Control touch screen		1 pc
Control box		1 pc