

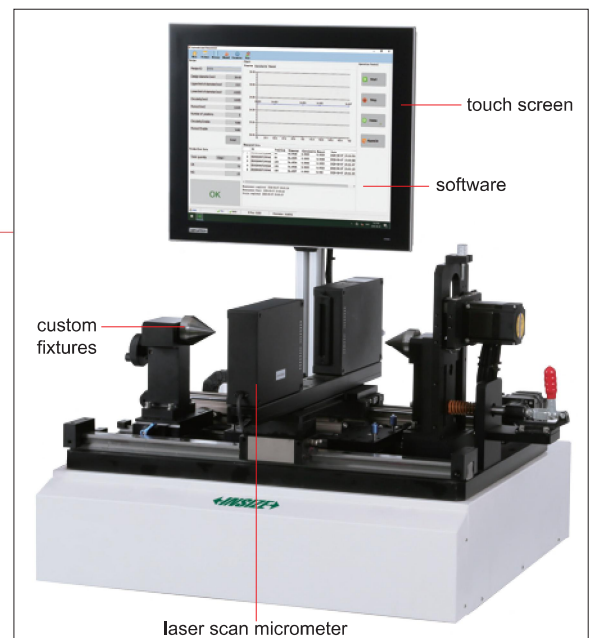
AUTOMATIC LASER DIAMETER MEASURING SYSTEM PART NO. RBT-LDM01-U

CUSTOM-MADE



- 6-axis industrial robot for high speed and precision, IP67, triple protection
- Auto-measure the outer diameter, roundness and runout of workpieces at multiple sections and provides real-time feedback to the control system
- Control system Modbus Tcp via bus communication, high speed, high efficiency and easy to extend

automatic laser scan micrometer LDM-AT01-U



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 and cylinder 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 grabs the workpiece and places it onto the custom fixture.
- Step 5: Automatic laser scan micrometer start measurement and output results.
- Step 6: The robot removes the workpiece and places the workpiece in the OK or NG station according to the measurement results.

SPECIFICATION

Robot★	robot arm spreading	28.62"
	Max working speed	157.48"/s
	Max weight of workpiece	17.64lb
	repeat positioning accuracy	±.0008"
	number of control axis	6
	communication protocols	Ethernet Modbus Tcp
Automatic★ laser scan micrometer	diameter of workpiece	.39~2.36"
	length of workpiece	.39~9.06"
	accuracy at 77°F	±(.00002+.01%D)", D is measuring diameter in inch
	repeatability at 77°F	(.00001+.005%D)", D is measuring diameter in inch
	runout accuracy at 77°F	≤.0002"
Power supply		110V, 50/60Hz
Supply pressure		0.5~0.6MPa
Operation environment		32~122°F, 35~85% (non-condensing)
Net weight		220.46lb

★ can be customised according to workpieces

STANDARD DELIVERY

Robotic system	robot body
	robot control cabinet
	programming guide
Automatic laser scan micrometer	touch screen
	laser scan micrometer
	custom fixtures
	software
Contol touch screen	1 pc
Contol box	1 pc

Automatic laser scan micrometer software (included)

- Measure the outer diameter,roundness and runout of workpieces automatically,then the data, trend graphs and judgement results can be displayed in real time
- Auto-saving measurement data, query and export to EXCEL at any time
- Switch to manual mode to commission each mechanism's parameters

