

AUTOMATIC MEASUREMENT SYSTEM CODE RBT-CMM01

CUSTOM-MADE



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 grips the workpiece and places it in the CMM fixture.
- Step 5: Workpieces are precisely positioned by three-coordinate fixtures.
- Step 6: The CMM starts the measurement and outputs the results.
- Step 7: The CMM moves to a safe position and the robot removes the part.
- Step 8: The robot places the workpiece in the OK or NG station according to the measurement results.

- 6-axis industrial robot for high speed and precision, IP67, triple protection
- Quick measurement system automatically measures the dimensions of the workpiece and provides real-time feedback to the control system
- Control system Modbus Tcp via bus communication, high speed, high efficiency and easy to extend

SPECIFICATION

Robot	robot arm spreading	720mm
	Max. working speed	4000mm/s
	Max. weight of workpiece	8kg
	repeat positioning accuracy	±0.02mm
	number of control axis	6
	communication protocols	Ethernet Modbus Tcp
	weight	100kg
CMM	range	500×600×400mm
	MPEE	±(2.3+L/250)μm
	MPEP	2.4μm
	Max. load	500kg
	overall dimension(LxWxH)	1134×1420×2350mm
	weight	900kg
	supply pressure	0.6~0.8MPa
Power supply		220V, 50Hz
Environmental requirement		temperature: 20°C±2°C, relative humidity: 30%~70%

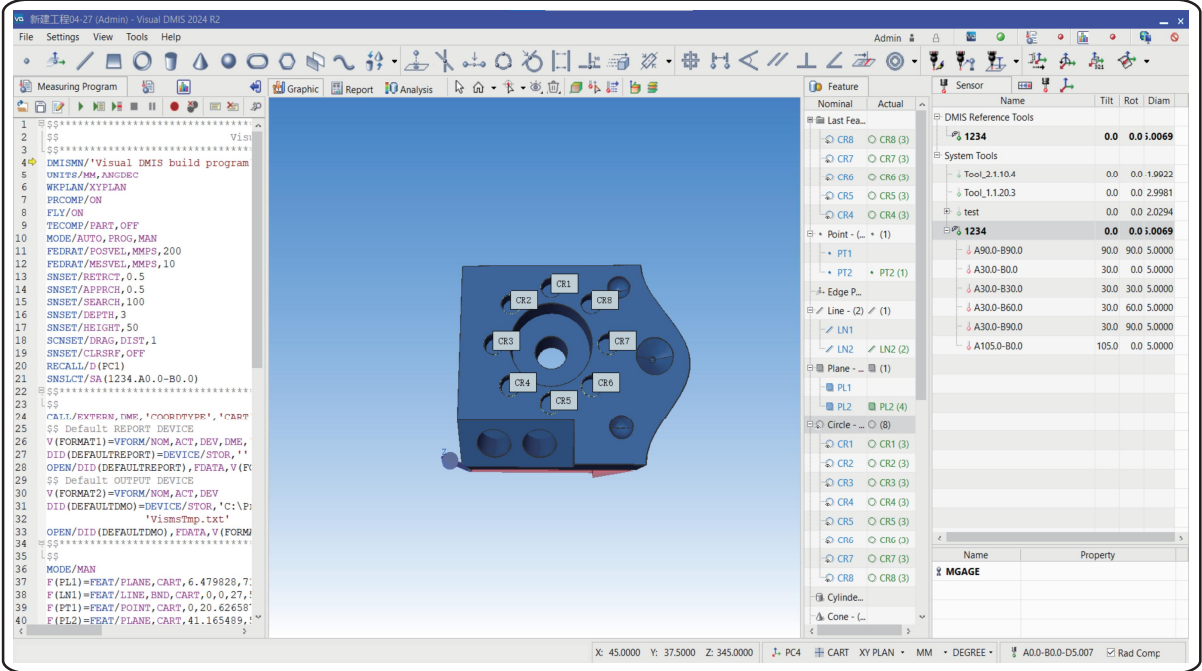
*CMM can select different models according to the workpiece

STANDARD DELIVERY

Robotic system		robot body
		robot control cabinet
		programming guide
CMM	main unit	1pc
	probr head	1pc
	probe body	1set
	control system	1set
	calibration sphere	1pc
	universal sphere seat	1pc
	computer	1pc
	printer	1pc
	software	1set
	dongle	1pc
	table and chair	1set
	automation module	1set
Control touch screen		1pc
Control box		1pc

VISUAL DMIS CNC CAD+ SOFTWARE

- The software is designed and developed based on the DMS standard, with excellent compatibility and versatility
- Geometric element measurement, evaluation of shape and position
- Measuring result can be stored automatically
- Optional specialized modules, such as gear module, worm module, pipeline module, blade module, SPC data analysis module, etc.



measurement software (included)