

AUTOMATIC BRINELL HARDNESS TEST SYSTEM PART No. RBT-FB01

CUSTOM-MADE



- 6-axis industrial robot for high speed and precision, IP67, triple protection
- Brinell hardness test system automatically tests the hardness 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

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 in the transplanting station
- Step 5: The transplanting station moves to the stage position
- Step 6: The hardness tester starts the test and outputs the results
- Step 7: The transplanting station moves to the outer handling station and the robot removes the workpiece
- Step 8: The robot places the workpiece in the OK or NG station according to the test results

SPECIFICATION

Robot	robot arm spreading	64.96"
	max. weight of workpiece	44.09lb
	repeat path accuracy	±.005"
	repeat positioning accuracy	±.0015"
	number of control axis	6
	communication protocols	Ethernet Modbus Tcp
Ultrasonic hardness tester	test force	612.9N (62.5kgf), 980.7N (100kgf), 1226N (125kgf), 1839N (187.5kgf), 2452N (250kgf), 4903N (500kgf), 7355N (750kgf), 9807N (1000kgf), 14710N (1500kgf), 29420N (3000kgf)
	range	3.18~653HBW
	load dwell time	0~999 seconds
	camera pixel	3M
	max. workpiece height	6.30"
	max. testing width	5.91"
	dimension of X-Y stage	12.60×8.27"
	travel range of X-Y stage	6.69×4.33"
	dimension (L×W×H)	27.17×14.17×39.37"
	data output	USB ×3, VGA ×1, network port ×1
Power supply		110V, 60Hz
Net weight		1062.63lb

STANDARD DELIVERY

Robotic system	robot body	1 pc
	robot control cabinet	1 pc
	programming guide	1 pc
Brinell hardness tester	main unit	1 pc
	1X, 2X objective	1 pc of each
	.098" DIA ball indenter	1 pc
	.197" DIA ball indenter	1 pc
	.379" DIA ball indenter	1 pc
	2.87" DIA flat anvil	1 pc
	7.87" DIA flat anvil	1 pc
	V-type anvil	1 pc
	Hardness test block 150~250HBW5/750	1 pc
	Hardness test block 150~250HBW10/3000	1 pc
	Anti-dust cover	1 pc
Control touch screen		1 pc
Control box		1 pc