

AUTOMATIC ROUGHNESS MEASURING SYSTEM

PART NO. RBT-ISR01-U

CUSTOMIZED ACCORDING TO THE
CUSTOMER'S WORKPIECE

- 6-axis industrial robot for high speed and precision, IP67, triple protection
- The roughness tester is compact and lightweight, making it easy to install in tight spaces
- Data is uploaded to the MES in real time, and reports are generated automatically
- Dedicated communication interface, high speed and high efficiency



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
Roughness tester	parameters		Ra, Rz, Rq, Ry, Rp, Rv, R3z, R3y, Rsk, Rku, Rc, Rpc, Rs, Rz(JIS), Rt, Rmax, Rz1max, Rk, Rpk, Rvk, Mr1, Mr2, Ry5, Rpkx, Rvkx, R5p, R5v, R10z, Rmr1, Rmr2, Rsm
	range		12598µin (-6299~6299µin)
	accuracy		±10%
	resolution (Ra)		.01µin
	standard probe * (ISR-C002-PROBE)	type	inductive
		stylus radius/angle	5µm/90°
		stylus material	diamond
	measuring force		.01ozf
	measuring unit		µm/µin
	cut off		.01/.03/.1"
	number of cut-off		1 to 5

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 roughness tester est position.
- Step 6: The roughness tester initiates a measurement 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 measurement results.

* Different models can be selected according to workpieces

STANDARD DELIVERY

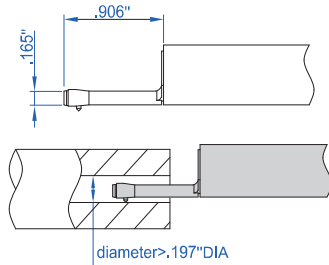
Robotic system	robt body	1 pc
	robt control cabinet	1 pc
	programming guide	1 pc
Roughness tester	main unit	1 pc
	calibration block and support	1 pc of each
	standard probe (ISR-C002-PROBE)	1 pc
	software and USB cable	1 pc of each
	adapter	1 pc
Control touch screen		1 pc
Control box		1 pc

OPTIONAL ACCESSORY

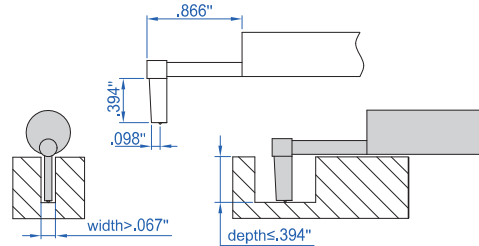
Tiny hole probe	ISR-C002-SBP
Deep groove probe	ISR-C002-DGP
Deep groove probe	ISR-C002-DGP1

PROBE PARAMETERS

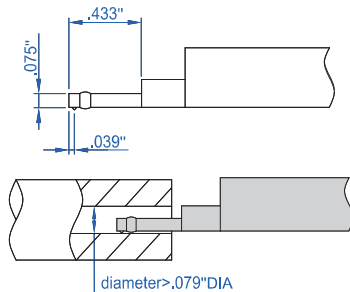
standard probe, 196 μ in/90° (included),
part No. **ISR-C002-PROBE**



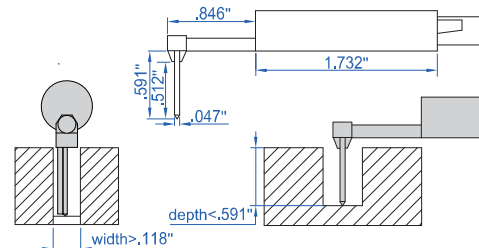
deep groove probe, 196 μ in/90° (optional),
part No. **ISR-C002-DGP**



tiny hole probe, 196 μ in/90° (optional),
part No. **ISR-C002-SBP**



deep groove probe, 196 μ in/90° (optional),
part No. **ISR-C002-DGP1**



recommended for use above Ra 3.9 μ in