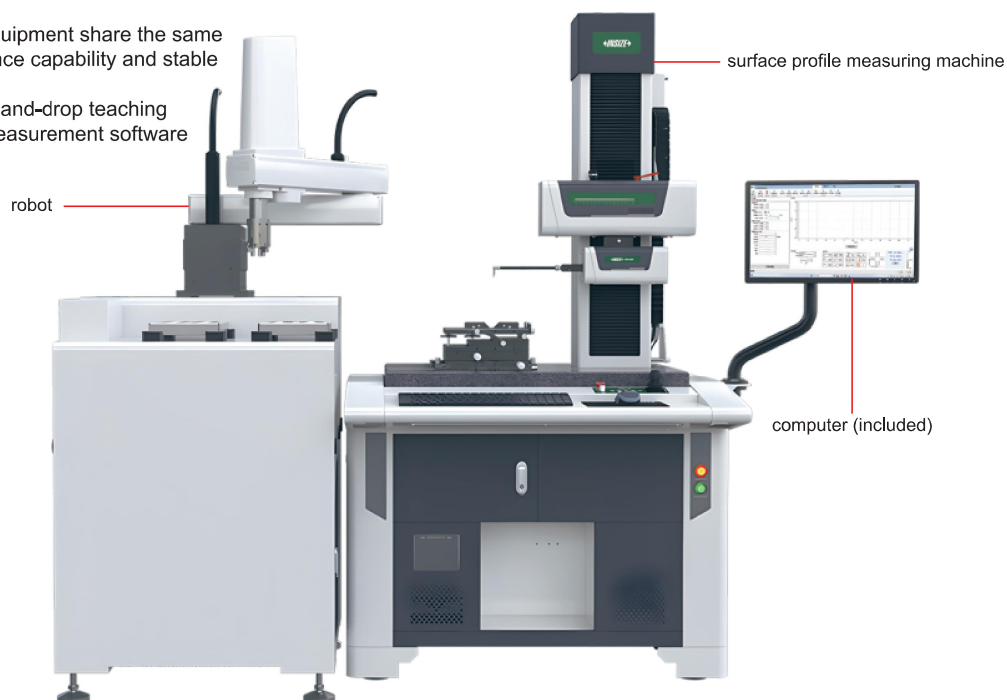


AUTOMATIC PROFILE MEASUREMENT SYSTEM

PART NO. RBT-SPM01-U

CUSTOMIZED ACCORDING TO THE
CUSTOMER'S WORKPIECE

- Lightweight SCARA robot, achieving high precision, high speed and high flexibility
- Measuring equipment and automated equipment share the same controller, featuring strong anti-interference capability and stable system performance
- Automated measurement supports drag-and-drop teaching
- Motion planning can be completed by measurement software and is easy to operate



SPECIFICATION

Robot	coordinate axes	X axis	Y axis	Z axis
	robot arm spreading (mm)	500	500	200
	rotation range (°)	±135	±135	/
	motor output AC (W)	750	400	260
	repeat positioning accuracy (mm)	±0.02	±0.02	±0.01
Surface profile measuring machine *	max. working speed (XYZ:m/sec) (R:°/sec)	8.6	8.6	2
	X axis measuring range	150mm		
	X axis resolution	0.1μm		
	X axis moving speed	(0.1~20)mm/s		
	Z axis measuring range	±20mm		
	Z axis resolution	0.02μm		
	Z axis moving speed	(0.5~30)mm/s		
	straightness	0.5μm/100mm		
	linear accuracy	±(0.6+[0.02H])μm, H is measuring height in mm		
	angular measuring accuracy	±1'		
	arc measuring accuracy	±(1.5+R/12)μm, R is 2~10mm standard ball		
	measuring unit	mm/inch		
	traceable angle	72° (upward), 88° (downward)		
	travel of Z axis	420mm		
Power supply		110±5%V, 50Hz		
Output power		500W		

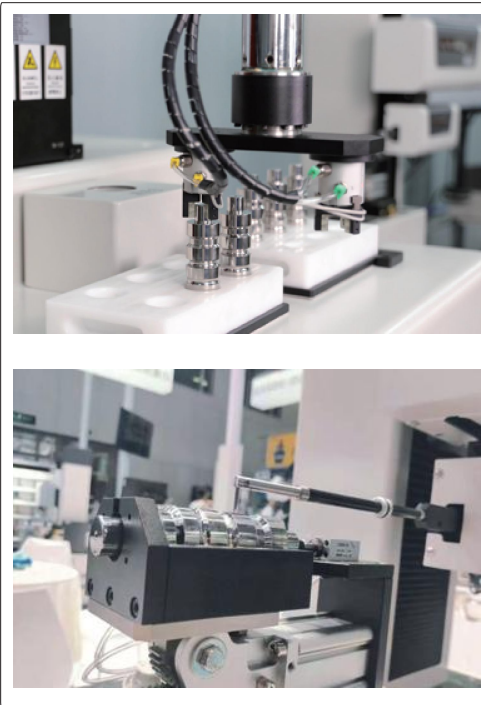
* Different models can be selected according to the workpiece

STANDARD DELIVERY

Robotic system	robot body	1 set
	main unit	1 set
	calibration block	1 set
	roughness probe arm	1 pc
	roughness stylus	1 pc
	profile probe arm	1 pc
	profile chisel stylus	1 pc
	stage	1 set
	vise	1 set
	computer	1 pc
	measurement software	1 set
	printer	1 pc
	installation tools	1 set

Surface profile
measuring machine

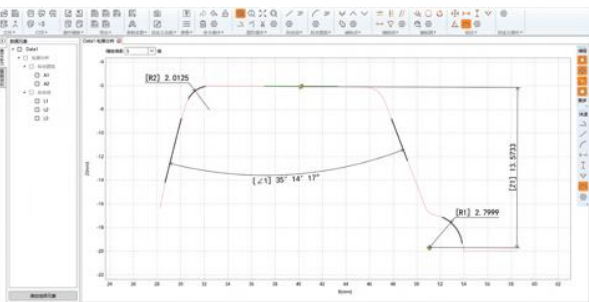
APPLICATION CASES



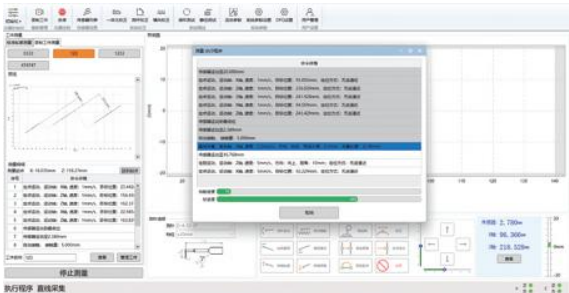
SOFTWARE (included)



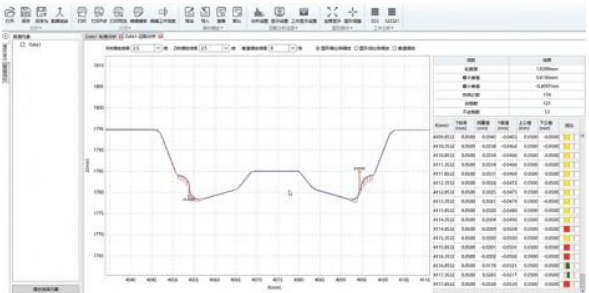
measurement software



profile measurement



automatic measurement



CAD profile comparison