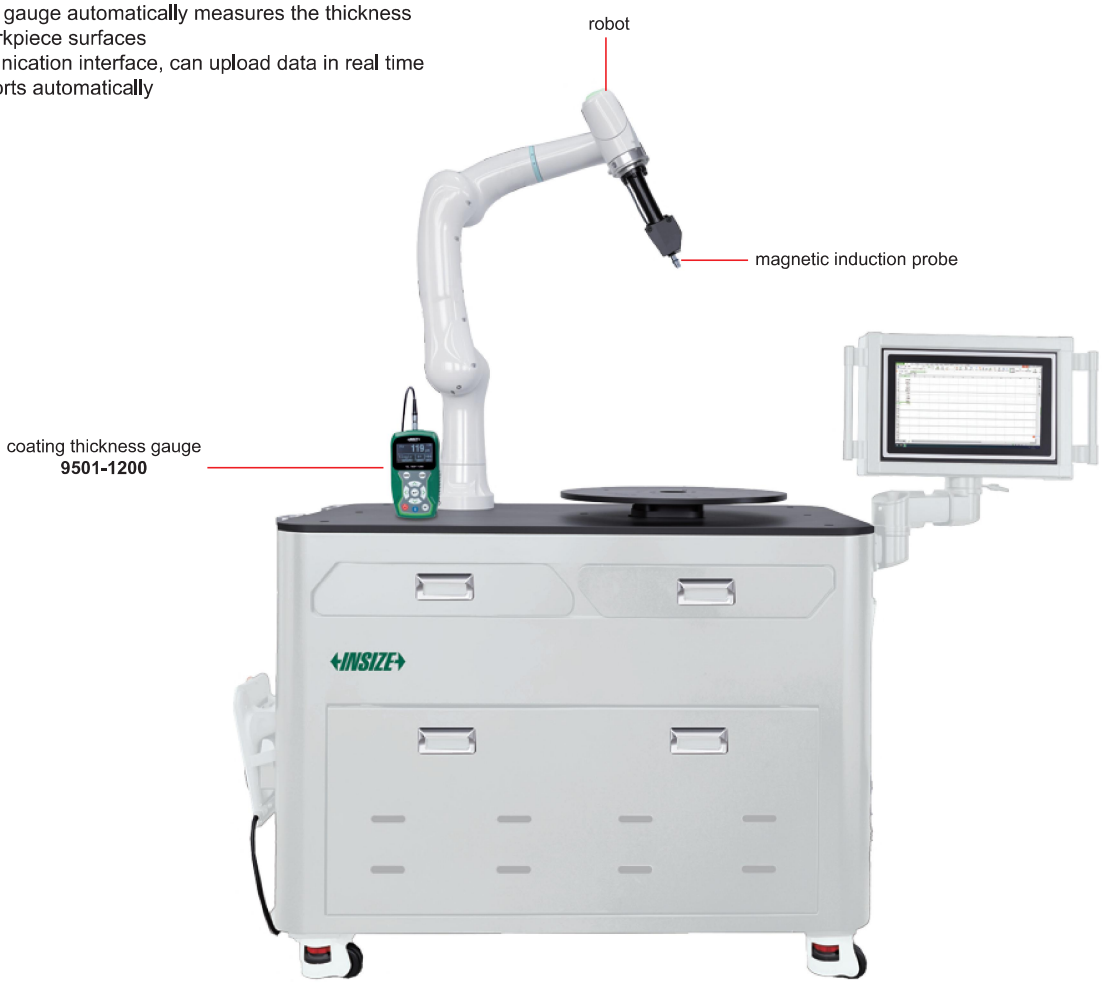
AUTOMATIC COATING THICKNESS MEASURING SYSTEM
CODE RBT-9501

CUSTOMIZED ACCORDING TO THE CUSTOMER'S WORKPIECE

- 6-axis industrial robot for high speed and precision
- Coating thickness gauge automatically measures the thickness of coatings on workpiece surfaces
- Dedicated communication interface, can upload data in real time and generate reports automatically



SPECIFICATION

Robot	robot arm spreading	919mm
	number of control axis	6
	Max. weight of workpiece	4kg
	repeat positioning accuracy	±0.03mm
	Max. working speed	2000mm/s
	IP rating	IP54
Coating thickness gauge	measuring range	refer to the specification of probes
	accuracy	±(3%L+1)μm (range≤1250μm) ±(3%L+10)μm (range>1250μm) L is measuring thickness in μm
	resolution	0.1μm (range<100μm) 1μm (range≥100μm)
	measuring mode	continuous and single
	data statistics	mean value, Max. value, Min. value, standard deviation
	storage capacity	600
	interface	Type-C
	power supply	2×1.5V AA batteries
Power supply		220V 50Hz, 3000W
Dimensions (L×W×H)		1500×1000×1400mm
Net weight		300kg

SPECIFICATION OF PROBES

Code	Range	Minimum substrate thickness	Minimum measuring area	Minimum curvature radius of convex workpiece	Probe type
9501-1200-FE (included)	0~1250μm	0.5mm	Ø7mm	1.5mm	magnetic induction probe (**FE**)
9501-1200-FL (optional)	0~1250μm	0.5mm	Ø7mm	1.5mm	right-angle magnetic induction probe (**FL**)
9501-1200-NFE (optional)	0~1250μm	0.3mm	Ø15mm	3mm	eddy current probe (**NFE**)
9501-1200-FE90 (optional)	0~1250μm	0.5mm	Ø7mm	-	magnetic induction probe (**FE90**) for bores and grooves
9501-1200-NFE90 (optional)	0~1250μm	0.3mm	Ø15mm	-	eddy current probe (**NFE90**) for bores and grooves
9501-1200-FE10 (optional)	500μm~10000μm	2mm	Ø40mm	10mm	magnetic induction probe (**FE10**) for large range

STANDARD DELIVERY

Robot system	**robot main body**	1set
	robot control cabinet	1set
	robot control software	1set
Coating thickness gauge	**main unit**	1pc
	magnetic induction probe (9501-1200-FE)	1pc
	zero calibration block	1pc
	calibration foils	1set
	software	1pc
	transmission cable (9501-1200-SPCA)	1pc
Measuring station trolley		1set
Computer and monitor		1set

OPTIONAL ACCESSORY

Probe	**9501-1200-FL, 9501-1200-NFE, 9501-1200-FE90, 9501-1200-NFE90 9501-1200-FE10** customized probe fixture is required