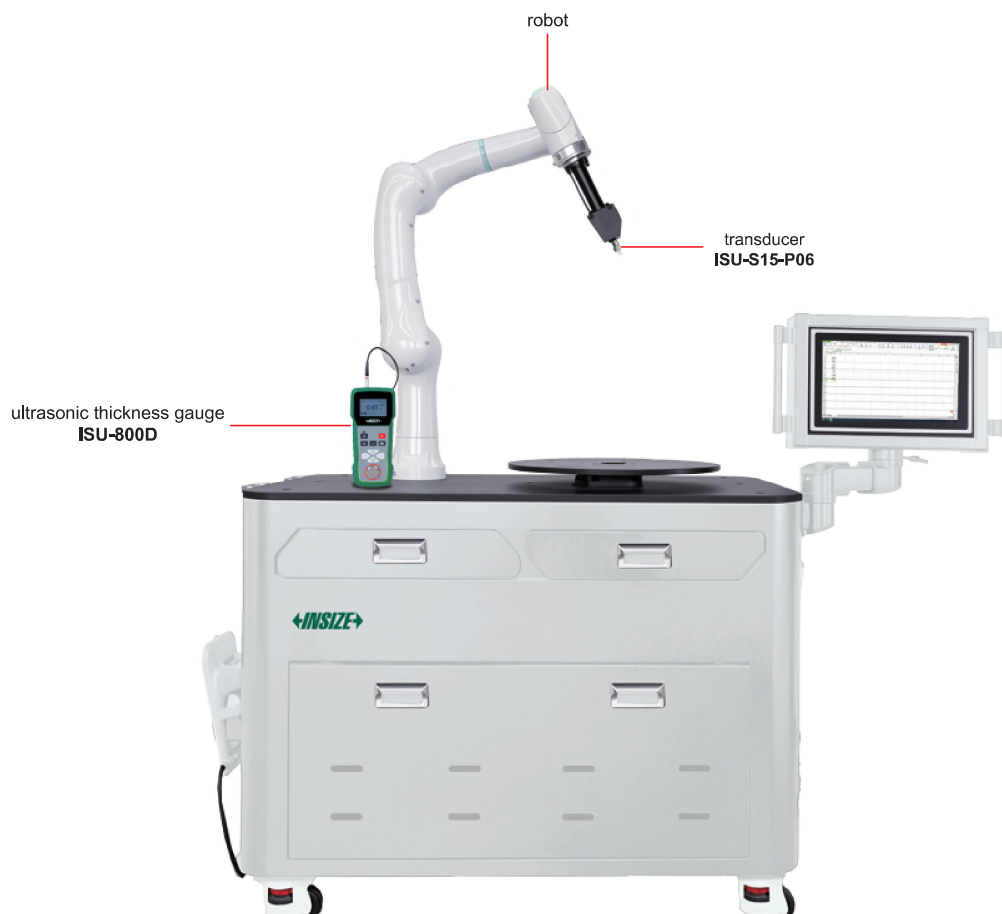


AUTOMATIC ULTRASONIC THICKNESS MEASURING SYSTEM CODE RBT-ISU01

CUSTOMIZED ACCORDING TO THE
CUSTOMER'S WORKPIECE

- 6-axis industrial robot for high speed and precision
- Ultrasonic thickness gauge automatically measures the thickness of workpiece
- 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
Ultrasonic thickness gauge	measuring range	refer to the specification of transducers
	accuracy*	refer to the specification of transducers
	velocity	1~19999m/s
	resolution	0.01mm/0.001mm
	data output	bluetooth and USB
	power supply	3.7V rechargeable lithium battery
Power supply		220V 50Hz, 3000W
Dimensions (L×W×H)		1500×1000×1400mm
Net weight		300kg

* On C45 carbon steel

SPECIFICATION OF TRANSDUCERS

Code	Type	Freq	Diameter (Ød)	Measuring range	Min. size of pipes (diameter × wall thickness)	Accuracy	Applicable temperature	Application
ISU-S15-P06 (included)	single element	15MHz	8mm	I-E: 0.9~28mm E-E: 0.15~14mm	Ø10×1.5mm Ø15×0.35mm	±0.02mm/0.3%H ^{**} (take the larger one)	-10°C~60°C	high precision or thin workpieces
ISU-S15-P06-CB (optional) ^{***}	—	—	5mm	I-E: 0.9~10mm E-E: 0.15~5mm	Ø10×1.2mm Ø15×0.35mm			high precision or irregular surface
ISU-S15-P06-CB1 (optional) ^{***}	—	—	8mm	I-E: 0.9~38mm E-E: 0.3~19mm	—			high precision or thick workpieces
ISU-S2M-P14 (optional)	single element	2MHz	19mm	I-E: 30~2000mm E-E: 30~1000mm	—	±0.5%H ^{**}	-10°C~310°C	ultra-thick workpieces
ISU-G5M-P10 (optional)	dual element	5MHz	13mm	0.8~300mm	Ø25×3mm	±0.04mm (range: <10mm) ±H/333mm ^{**} (range: ≥10mm)	-10°C~60°C	normal workpieces
ISU-G5M-P08 (optional)	dual element	5MHz	11mm	0.8~225mm	Ø20×1.2mm			curved surface and normal workpieces
ISU-G7M-P06 (optional)	dual element	7.5MHz	9mm	0.8~50mm	Ø15×1.2mm			curved surface and small workpieces
ISU-G2M-P12 (optional)	dual element	2MHz	17mm	3~700mm	Ø30×4mm	±0.05mm/0.5%H ^{**} (take the larger one)	-10°C~310°C	castings and thick workpieces
ISU-H3M-P12 (optional)	dual element	3MHz	15mm	2~200mm	Ø25×3mm	±0.05mm/0.5%H ^{**} (take the larger one)		workpieces with high temperature

^{**} H is the measured thickness in mm

^{***} Delay blocks, suitable for transducer **ISU-S15-P06**

STANDARD DELIVERY

Robot system	robot main body	1set
	robot control cabinet	1set
	robot control software	1set
Ultrasonic thickness gauge	main unit	1pc
	transducer (ISU-S15-P06)	1pc
	software and USB cable	1 pc
	couplant	1 bottle
Measuring station trolley		1set
Computer and monitor		1set

OPTIONAL ACCESSORY

Transducer	refer to the specification of transducers customized probe fixture is required
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