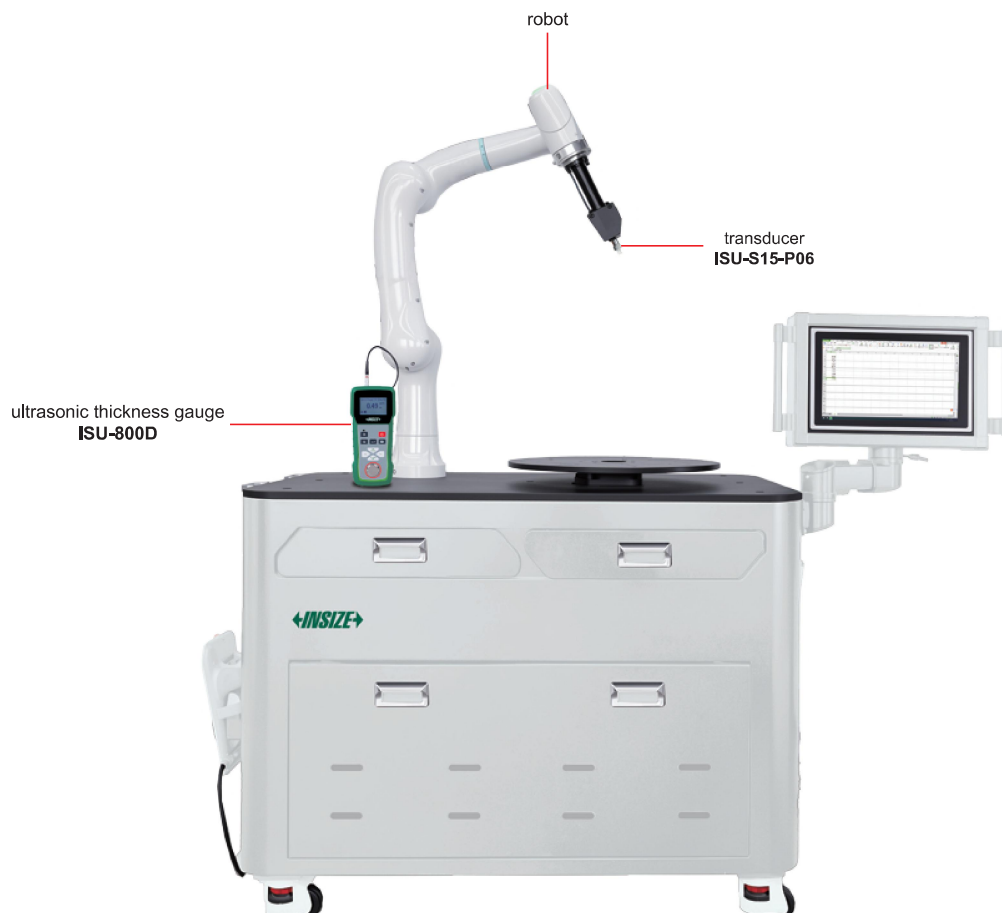


AUTOMATIC ULTRASONIC THICKNESS MEASURING SYSTEM PART No. RBT-ISU01-U

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	36.2"
	number of control axis	6
	Max. weight of workpiece	8.82lb
	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	.001"/.0001"
	data output	bluetooth and USB
	power supply	3.7V rechargeable lithium battery
Power supply		110V 60Hz, 3000W
Dimensions (L×W×H)		59.1×39.4×55.1"
Net weight		661lb

* On 1045 carbon steel

SPECIFICATION OF TRANSDUCERS

Part No.	Type	Freq	Diameter (d)	Measuring range	Min. size of pipes (diameter × wall thickness)	Accuracy	Applicable temperature	Application
ISU-S15-P06 (included)	single element	15MHz	.31" DIA	I-E .04~1.10" E-E .01~.55"	.39" DIA×.06" .59" DIA×.01"	±.001"/0.3%H** (take the larger one)	14°F~140°F	high precision or thin workpieces
ISU-S15-P06-CB (optional)***	—	—	.20" DIA	I-E .04~.39" E-E .01~.20"	.39" DIA×.05" .59" DIA×.01"			high precision or irregular surface
ISU-S15-P06-CB1 (optional)***	—	—	.31" DIA	I-E .04~1.50" E-E .01~.75"	—			high precision or thick workpieces
ISU-S2M-P14 (optional)	single element	2MHz	.75" DIA	I-E: 1.18~78.74" E-E: 1.18~39.37"	—	±.5%H**	14°F~590°F	ultra-thick workpieces
ISU-G5M-P10 (optional)	dual element	5MHz	.51" DIA	.03~11.81"	.98" DIA×.12"	±.002" (range: <.4") ±H/333mm** (range: ≥.4")	14°F~140°F	normal workpieces
ISU-G5M-P08 (optional)	dual element	5MHz	.43" DIA	.03~8.86"	.79" DIA×.05"			curved surface and normal workpieces
ISU-G7M-P06 (optional)	dual element	7.5MHz	.35" DIA	.03~1.97"	.59" DIA×.05"			curved surface and small workpieces
ISU-G2M-P12 (optional)	dual element	2MHz	.67" DIA	.12~27.56"	1.18" DIA×.16"	±.002"/0.5%H** (take the larger one)	14°F~590°F	castings and thick workpieces
ISU-H3M-P12 (optional)	dual element	3MHz	.59" DIA	.08~7.87"	.98" DIA×.12"	±.002"/0.5%H** (take the larger one)		workpieces with high temperature

** H is the measured thickness in inch

*** 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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