

Manual PA Crawler

PES-02

Mini Phased Array Crawler

Phased Array crawler PES-02 is compact, flexible and easy to operate.

It is suitable for phased-array single probe (with wedge) to perform ultrasonic phased-array testing on girth weld or longitudinal weld of flat butt welds, pressure vessels or pipes (diameter > 60mm).

- ⊕ Waterproof (IP68)
- ⊕ Compact size
- ⊕ Aluminum alloy construction: withstand the harshest environments.
- ⊕ High encoder resolution: 0.05mm/step.
- ⊕ Compatible with long and short pivot arms to achieve flexible application.



Butt Weld Inspection



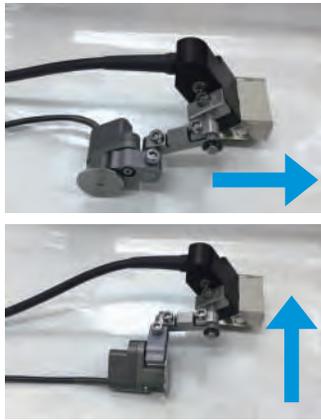
Pipe Inspection

Superior Features

Phased Array crawler PES-02 is compatible with different wedges to inspect butt weld and plates.

PES-02 Crawler Combinations	
Combination 1 (Non-irrigation wedge)	
	Work with non-irrigation wedges to inspect on girth weld or longitudinal weld of flat butt welds (diameter larger than 60mm).
Combination 2 (Irrigation wedge)	
	Work with irrigation wedges to inspect on girth weld or longitudinal weld of flat butt welds (diameter larger than 60mm).
Combination 3 (Large size wedge)	
	Work with large size wedge to inspect on plate

Superior Features



Two direction wheel assemble methods to achieve horizontal welding and longitudinal welding inspection



PES-02 crawler structure



Smaller size to make it perfect for accessing limited space

Technical Parameters

Item	Description	
Weight	0.1kg	
Dimension(W×H×D)	26.5mm×17mm×42mm	
Packing Dimension(W×H×D)	380mm×315mm×130mm	
Scan Method	Manual, single axis scanning	
Encoder Precision	0.05 mm/step	
Encoder IP Code	IP68	
Suitable Tested Work Piece	Plate	
	Pipe	Diameter > 60mm
Working Condition	Temperature	0°C ~ +40°C
	Relative Humidity	30%~85%
	Atmospheric Pressure	700hPa~1060hPa

Standard Accessories

Long Turning Arm	Compatible with phased array 20mm wedge and transverse wave wedge
Short Turning Arm	Compatible with phased array 40mm wedge
Encoder Cable	Fixed with encoder

Optional Accessories

Wedge	Phased Array Irrigation Wedge	
	Phased Array Non-irrigation Wedge	
Auto Irrigation Device	IA-01	
Manual Irrigation Device	IH-01	