

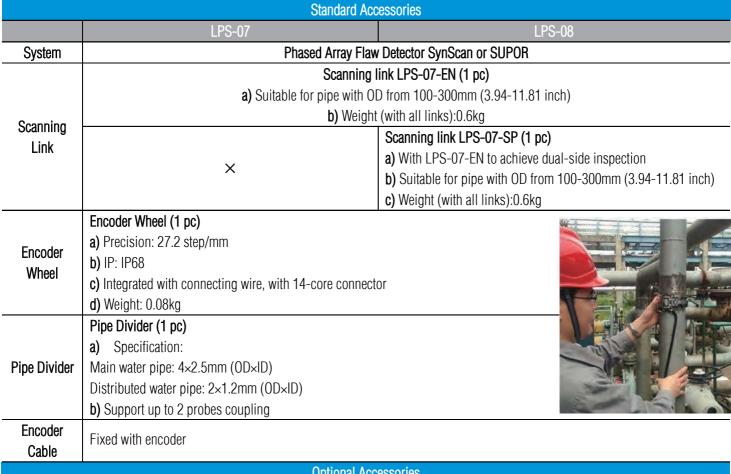




LPS-07/LPS-08

The Phased Array low profile crawler LPS-07 and LPS-08 are compatible with Phased Array ultrasonic flaw detector, which is used to perform circumferential weld inspection on pipes (OD:100mm-300mm).

- Compact, lightweight, portable, waterproof and rust-free.
- Probes and wedges can be quickly and easily changed.
- Support up to two phased array probes to cover the whole welds at one time.
- Covers standard pipes with outside diameters ranging from 100-300mm (3.94-11.81 inch).
- Can be operated within 15mm clearance, perfect for hard-to-reach area inspection.
- Encoder precision: 27.2 step/mm
- The probe spacing can be adjusted in the range of 0-55 mm.
- Crawler can provide stable and constant pressure around the pipe full circumference.
- Urethane wheels help the crawler have smooth radial movement along the pipe and reduce axial drift.
- Positive inspection and reverse inspection with high reproducibility and good coupling.
- With its simple buckle design, just easily buckle up and unbuckle the links for different pipe diameters (No need to disassemble the whole scanner).
- Two inspection methods: one-side inspection and dual-side inspection.



Optional Accessories						
	LPS-07	LPS-08				
Probes	Low-profile PA probe (1 pc)	Low-profile PA probe (2 pcs)				
Wedges	Phased Array wedges (5 pcs)	Phased Array wedges (10 pcs)				
Y Splitter	×	Y Splitter for two phased array probes to work simultaneously.				
	Manual Irrigation Device (1 pc)					
Manual	a) Manually pressurized, with adjustable flow valve					
Irrigation	b) Capacity: 5L					
Device	c) With tube: 4×2.5mm (OD×ID), 5000mm length					
	d) Weight: 1.5kg					

Crawler for Small Pipe Welds

Low-profile Phased Array Probe

Probe Model	Frequency	Elements No.	Pitch	Elevation	Elevation Curvature Radius	Corresponding	
Flobe Model	MHz	Elements No.	mm	mm mm		Wedge	
5.0SL16-0.5-10-R35E	5	16	0.5	10	35	8R(35)60S4-I-A0D-XX	
7.5SL16-0.5-10-R35E	7.5	16	0.5	10	35	8R(35)60S4-I-A0D-XX	
10.0SL16-0.5-10-R35E	10	16	0.5	10	35	8R(35)60S4-I-A0D-XX	

Phased Array Wedge

Wedge Model	Description	L	W	Н	AOD		Pipe Min. OD		Pipe Min. OD	
weage would		mm	mm	mm	in.	mm	in.	mm	ln.	mm
8R(35)60S4-I-A0D-140	35° -70°		3 22	12.4	5.709	145	3.858	98	5.591	142
8R(35)60S4-I-AOD-195				12.2	8.071	205	5.433	138	7.756	197
8R(35)60S4-I-A0D-250		10		12.1	10.236	260	7.598	193	9.921	252
8R(35)60S4-I-A0D-270	shear wave	18		12.1	11.221	285	9.764	248	10.906	277
8R(35)60S4-I-AOD-300	angle block			12.1	12.205	310	10.748	273	11.890	302
8R(35)60S4-I-AOD-300				12.1	12.205	310	10.748	273	11.890	302

[•] Note: SIUI low-profile probes and wedges are compatible with Cobra from Olympus and Circ-it from Jireh.

Technical Specification

Basic Parameters						
	LPS-07	LPS-08				
Dimension	Height: 15mm Width: 68mm Max. Length (Suitable for 300mm pipe):946.9 m	Height: 15mm Min. Width(Wedge Front Distance:0mm): 136mm Max. Width (Wedge Front Distance:55mm): 191mm Max. Length (Suitable for 114.3mm pipe): 946.9mm Distance between two wedges front: 0-55mm				
Weight	0.7kg	1.3kg				
Packing Dimension(W×H×D)	440×340×190(mm)					
Scan Method	Manual, single axis scanning					
Encoder Precision	27.2 step/mm					
Encoder IP Code	IP68					
Suitable Tested Work Piece (Pipe)	OD: 100-300mm(3.94-11.81 inch), pipe min. clearance: 15mm					
Working Temperature	0℃~+40℃					
Working Relative Humidity	30%~85%					
Working Atmospheric Pressure	700hPa~1060hPa					



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