

Low-profile Phased Array Probe

Superior Features

With the Low-profile PA probe, the probability of small defects detection in small pipe can be increased.



Application

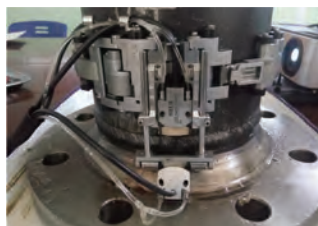
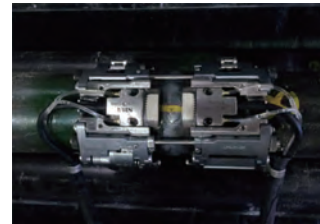
Low-profile PA probe is compatible with bracelet type crawler LPS series to cover standard pipes with outside diameters ranging from 20.32-300mm.



PAUT solution for small pipe weld

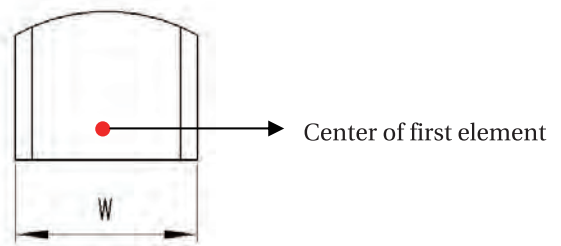
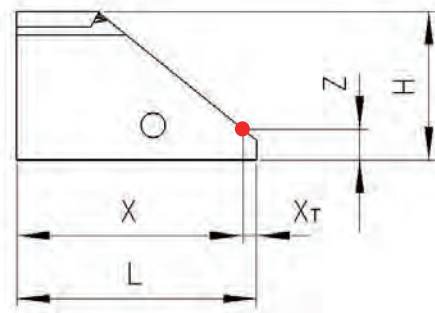


PAUT solution for medium pipe weld



Specifications

Probe Model	Frequency	Elements No.	Pitch	Elevation	Active aperture mm	Corresponding Wedge
	MHz		mm	mm		
5.0SL16-0.5-10-R35E	5	16	0.5	10	35	8R(35)60S4-I-AOD-XX
7.5SL16-0.5-10-R35E	7.5	16	0.5	10	35	8R(35)60S4-I-AOD-XX
10SL16-0.5-10-R35E	10	16	0.5	10	35	8R(35)60S4-I-AOD-XX
3.5SL32-0.5-10-R35E	3.5	32	0.5	10	35	16R(35)60S4-I-AOD-XX
7.5SL32-0.5-10-R35E	7.5	32	0.5	10	35	16R(35)60S4-I-AOD-XX



Wedge Model	Description	X	X _T	Z	Velocity m/s	Refracted Angle in Steel	L	W	H	Fixed Aperture Diameter mm
		mm	mm	mm			mm	mm	mm	
8R(35)60S4-I-AOD-21	35°-70°shear wave angle block	17.7	1.3	4.2	2360	60°	18	22	15.5	φ3
8R(35)60S4-I-AOD-26									15.2	
8R(35)60S4-I-AOD-33									15	
8R(35)60S4-I-AOD-42									14.2	
8R(35)60S4-I-AOD-48									13.9	
8R(35)60S4-I-AOD-60									13.4	
8R(35)60S4-I-AOD-73									13	
8R(35)60S4-I-AOD-88									12.9	
8R(35)60S4-I-AOD-101									12.6	
8R(35)60S4-I-AOD-114									12.7	
8R(35)60S5-I-AOD-140									12.4	
8R(35)60S5-I-AOD-195									12.2	
8R(35)60S5-I-AOD-250									12.1	
8R(35)60S5-I-AOD-270									12.1	
8R(35)60S5-I-AOD-300									12.1	
8R(35)60S4-I									11.7	

Wedge Model	Description	X	X _T	Z	Velocity m/s	Refracted Angle in Steel	L	W	H	Fixed Aperture Diameter mm
		mm	mm	mm			mm	mm	mm	
16R(35)60S4-I-AOD-21	35°-70° shear wave angle block	26.7	2.3	4.6	2360	60°	29	22	21.7	φ3
16R(35)60S4-I-AOD-26									21.5	
16R(35)60S4-I-AOD-33									21.1	
16R(35)60S4-I-AOD-42									20.4	
16R(35)60S4-I-AOD-48									20	
16R(35)60S4-I-AOD-60									19.6	
16R(35)60S4-I-AOD-73									19.3	
16R(35)60S4-I-AOD-88									19	
16R(35)60S4-I-AOD-101									18.9	
16R(35)60S4-I-AOD-114									18.8	
16R(35)60S4-I-AOD-140									18.6	
16R(35)60S4-I-AOD-195									18.4	
16R(35)60S4-I-AOD-250									18.3	
16R(35)60S4-I-AOD-270									18.3	
16R(35)60S4-I-AOD-300									18.2	
16R(35)60S4-I									17.9	