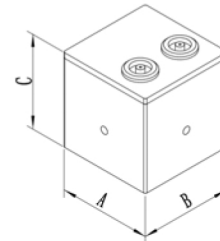


## Contact Probe - TRL Angle Beam

Independent transmit and receive crystals, refracting ultrasonic beam angles and creates certain focal length in workpiece.



Specification		Dimensions					
		A		B		C	
mm	in	mm	in	mm	in	mm	in
7 x 10	0.28 x 0.39	25.0	0.98	25.0	0.98	30.0	1.18
8 x 14	0.31 x 0.55	25.0	0.98	25.0	0.98	30.0	1.18
10 x 18	0.39 x 0.71	30.0	1.18	30.0	1.18	30.0	1.18
15 x 25	0.59 x 0.98	40.0	1.57	40.0	1.57	35.0	1.38
20 x 34	0.79 x 1.34	50.0	1.97	50.0	1.97	39.5	1.56



### Features

- No initial pulse dead zone effects
- Less scattering, higher SNR in high attenuation material
- Probe face can be processed into different shapes to ensure good coupling with workpiece:  
 AID(Axial Inside Diameter), CID(Circumferential Inside Diameter),  
 AOD(Axial Outside Diameter), COD(Circumferential Outside Diameter)
- Two types of performance probes can meet most of detection needs

#### “PL ” Universal Series:

Ideal for high sensitivity and penetration applications, less resolution and bandwidth required environments

#### “C ” Composite Series:

High penetration power and high SNR for coarse-grained, fiber-reinforced composite materials



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## Applications

- Nuclear Power Station
- Austenitic Stainless Steel
- Near Surface Flaw Detection
- Plate Weld Inspection
- High Attenuation Materials

## Instructions

- C - Composite Series is the default probe type
- Default built-in delay lines, for external delay lines of 3~3.5mm can be customized
- Default probe is without irrigation holes, which can be customized
- FS means Sound Path, FD means Focal Depth,  
 Conversion of FS, FD and  $\beta$  is:  
 $\text{Cos}\beta = \text{FD}/(\text{FS} + 0.5D)$ , where D is diameter
- Lemo 00(C5) Top Mounting Connectors, Side Mounting can be customized

Frequency	a x b		$\beta$ (°)	Probe Specification				Models	
				Focal Length(FS)					
				MHz	mm	in	SS	Min	
0.5	20 x 34	0.79 x 1.34	45	25	0.98	60	2.36	/	DA0.5C20 x 34LA45
0.5	20 x 34	0.79 x 1.34	60	20	0.79	35	1.38	/	DA0.5C20 x 34LA60
0.5	20 x 34	0.79 x 1.34	70	20	0.79	30	1.18	/	DA0.5C20 x 34LA60
1	8 x 14	0.31 x 0.55	45	10	0.39	25	0.98	DA1P8 x 14LA45	DA1C8 x 14LA45
1	8 x 14	0.31 x 0.55	60	10	0.39	20	0.79	DA1P8 x 14LA60	DA1C8 x 14LA60
1	8 x 14	0.31 x 0.55	70	10	0.39	20	0.79	DA1P8 x 14LA70	DA1C8 x 14LA70
1	10 x 18	0.39 x 0.71	45	15	0.59	30	1.18	DA1P10 x 18LA45	DA1C10 x 18LA45
1	10 x 18	0.39 x 0.71	60	15	0.59	30	1.18	DA1P10 x 18LA60	DA1C10 x 18LA60
1	10 x 18	0.39 x 0.71	70	15	0.59	25	0.98	DA1P10 x 18LA70	DA1C10 x 18LA70
1	15 x 25	0.59 x 0.98	45	20	0.79	55	2.17	DA1P15 x 25LA45	DA1C15 x 25LA45
1	15 x 25	0.59 x 0.98	60	20	0.79	45	1.77	DA1P15 x 25LA60	DA1C15 x 25LA60
1	15 x 25	0.59 x 0.98	70	15	0.59	40	1.57	DA1P15 x 25LA70	DA1C15 x 25LA70
1	20 x 34	0.79 x 1.34	45	30	1.18	80	3.15	DA1P20 x 34LA45	DA1C20 x 34LA45
1	20 x 34	0.79 x 1.34	60	25	0.98	75	2.95	DA1P20 x 34LA60	DA1C20 x 34LA60
1	20 x 34	0.79 x 1.34	70	25	0.98	70	2.76	DA1P20 x 34LA70	DA1C20 x 34LA70
2	7 x 10	0.28 x 0.39	45	10	0.39	25	0.98	DA2P7 x 10LA45	DA2C7 x 10LA45
2	7 x 10	0.28 x 0.39	60	10	0.39	25	0.98	DA2P7 x 10LA60	DA2C7 x 10LA60
2	7 x 10	0.28 x 0.39	70	10	0.39	20	0.79	DA2P7 x 10LA70	DA2C7 x 10LA70
2	8 x 14	0.31 x 0.55	45	15	0.59	30	1.18	DA2P8 x 14LA45	DA2C8 x 14LA45
2	8 x 14	0.31 x 0.55	60	10	0.39	30	1.18	DA2P8 x 14LA60	DA2C8 x 14LA60
2	8 x 14	0.31 x 0.55	70	10	0.39	25	0.98	DA2P8 x 14LA70	DA2C8 x 14LA70
2	10 x 18	0.39 x 0.71	45	20	0.79	45	1.77	DA2P10 x 18LA45	DA2C10 x 18LA45
2	10 x 18	0.39 x 0.71	60	15	0.59	40	1.57	DA2P10 x 18LA60	DA2C10 x 18LA60
2	10 x 18	0.39 x 0.71	70	15	0.59	30	1.18	DA2P10 x 18LA70	DA2C10 x 18LA70
2	15 x 25	0.59 x 0.98	45	25	0.98	85	3.35	DA2P15 x 25LA45	DA2C15 x 25LA45
2	15 x 25	0.59 x 0.98	60	20	0.79	75	2.95	DA2P15 x 25LA60	DA2C15 x 25LA60
2	15 x 25	0.59 x 0.98	70	20	0.79	70	2.76	DA2P15 x 25LA70	DA2C15 x 25LA70
2	20 x 34	0.79 x 1.34	45	40	1.57	120	4.72	DA2P20 x 34LA45	DA2C20 x 34LA45
2	20 x 34	0.79 x 1.34	60	30	1.18	120	4.72	DA2P20 x 34LA60	DA2C20 x 34LA60
2	20 x 34	0.79 x 1.34	70	30	1.18	105	4.13	DA2P20 x 34LA70	DA2C20 x 34LA70
4	7 x 10	0.28 x 0.39	45	10	0.39	35	1.38	DA4P7 x 10LA45	DA4C7 x 10LA45
4	7 x 10	0.28 x 0.39	60	10	0.39	35	1.38	DA4P7 x 10LA60	DA4C7 x 10LA60
4	7 x 10	0.28 x 0.39	70	10	0.39	30	1.18	DA4P7 x 10LA70	DA4C7 x 10LA70
4	8 x 14	0.31 x 0.55	45	20	0.79	60	2.36	DA4P8 x 14LA45	DA4C8 x 14LA45
4	8 x 14	0.31 x 0.55	60	15	0.59	55	2.17	DA4P8 x 14LA60	DA4C8 x 14LA60
4	8 x 14	0.31 x 0.55	70	10	0.39	50	1.97	DA4P8 x 14LA70	DA4C8 x 14LA70
4	10 x 18	0.39 x 0.71	45	25	0.98	85	3.35	DA4P10 x 18LA45	DA4C10 x 18LA45
4	10 x 18	0.39 x 0.71	60	20	0.79	70	2.76	DA4P10 x 18LA60	DA4C10 x 18LA60
4	10 x 18	0.39 x 0.71	70	15	0.59	60	2.36	DA4P10 x 18LA70	DA4C10 x 18LA70
4	15 x 25	0.59 x 0.98	45	30	1.18	100	3.94	DA4P15 x 25LA45	/
4	15 x 25	0.59 x 0.98	60	25	0.98	90	3.54	DA4P15 x 25LA60	/
4	15 x 25	0.59 x 0.98	70	20	0.79	80	3.15	DA4P15 x 25LA70	/