

Angle Beam Transducers

Angle Beam Transducers are single or dual element transducers designed for weld inspection or flaw detection where flaws have an angular orientation with respect to the material surface. Weld inspections are performed using shear waves refracted from a longitudinal wave by means of a lucite wedge. Lucite wedges are designed to produce shear waves of a particular angle in a specified material with minimal wedge noise.

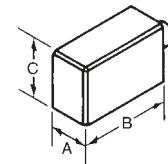


ABFP Style Angle Beam

ABFP Style, fingertip, fixed angle, shear wave transducers are available in standard angles for inspecting steel and aluminum. Custom angles for other materials may be special ordered. Their small size makes them ideal for weld inspection in restricted access areas. All ABFP Transducers are equipped with right angle Microdot connectors. Top mounted connectors may be special ordered.

Fingertip Potted Angle Beam Transducers— ABFP Style

Freq. (MHz)	Size (in.)	PRODUCT CODES				Accessories
		45°	60°	70°	90°	
2.25	.187 x .187	292-640	292-641	292-642	292-643	Cables 6' BNC C-012 6' LEMO C-022
	.250 x .250	292-620	292-621	292-622	292-623	
5.0	.187 x .187	294-640	294-641	294-642	294-643	
	.250 x .250	294-620	294-621	294-622	294-623	
10	.187 x .187	296-640	296-641	296-642	296-643	
	.250 x .250	296-620	296-621	296-622	296-623	

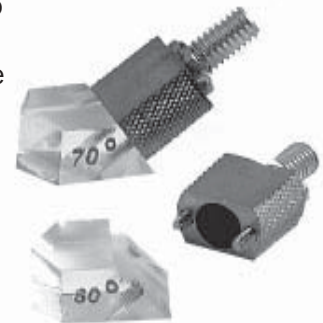


Element Dimensions	A	B	C
.187 x .187	.32	.70	.57
.25 x .25	.50	1.0	.55

Note: Part numbers above are for carbon steel. For aluminum, specify frequency, size, and refracted angle in aluminum.

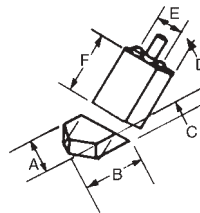
SMSWS Style Angle Beam

SMSWS Angle Beam Transducers are subminiature transducers designed to fit removable lucite wedges. Refracted shear wave angles may be specified as required. All SMSWS transducers have standard screws for fastening the probe to the wedge and have top-mount miniature Microdot connectors.



Subminiature Angle Beam— SMSWS Style

Freq. (MHz)	Size (in.)	PRODUCT CODES			
		Gamma Series	Standard Wedge	Accessories	
2.25	.125	212-585	W-120 45°	Cable 6' BNC C-047	
			W-121 60°		
			W-122 70°		
			W-123 90°		
5.0	.125	214-585	W-120 45°		Wedge Couplant XD-740
			W-121 60°		
			W-122 70°		
			W-123 90°		
10.0	.125	216-585	W-120 45°		
			W-121 60°		
			W-122 70°		
			W-123 90°		



Wedge Dimensions						
Angle	A	B	C	D	E	F
45°	.31	.25	.21	.19	.23	.28
60°	.31	.42	.21	.19	.23	.28
70°	.31	.42	.21	.19	.23	.28
90°	.31	.72	.34	.19	.23	.28

Note: Standard wedge angles are specified for carbon steel.

