

PAUT WEDGES



Wedges are used in both shear wave and longitudinal wave applications, including straight beam linear scans. These wedges perform basically the same function in phased array systems as in conventional single element flaw detection, coupling sound energy from the transducer to the test piece in such a way that it mode converts and refracts at a desired angle in accordance with Snell's Law.

Wedges also protect the transducer face from scratches or abrasion.

- Available in standard refracted angles of 0°, 45°, 55°, and 60° in steel for angle-beam inspections from 30° to 70°, SW or LW.
- The IHC wedge option can be ordered to improve the quality of the inspection. Irrigation, mounting holes for the wedge holder to work with any suitable scanner, and carbide pins to increase wear resistance.
- Custom wedges with specific refracted angles can be ordered, wedge shape and contour can also be customized.
- Wedges can also be custom contoured to accommodate complex part geometries.
- We also provide high temperature wedges that can be used up to 150°C.

We provide Zero-degree, Shear wave Flat and AOD wedges that can be used with Olympus probes, such as SA 27, SA 31, SA 32, SA 10, SA 12 and SA 2. Apart from these customized wedges can be provided.

Part Number	Probe Type	Nominal Refracted Beam Angle in Steel	Recommended Sweep (°)	Probe Orientation	Wedge Dimensions (mm)			
					L	W	W*	H
UW-A10-0L	A10	0° LW	-30 to 30	Normal	25	23	40	20
UW-A10-N55S	A10	55° SW	40 to 70	Normal	23	23	40	14
UW-A10-N60L	A10	60° LW	40 to 70	Normal	26	23	40	30
UW-A12-0L	A12	0° LW	-30 to 30	Normal	58	23	40	20
UW-A12-N55S	A12	55° SW	40 to 70	Normal	73	23	40	45
UW-A12-N60L	A12	60° LW	40 to 70	Normal	61	23	40	53
UW-A31-0L	A31	0° LW	-30 to 30	Normal	40	30	40	20
UW-A31N55S	A31	55° SW	40 to 70	Normal	49	30	40	32
UW-A31N60L	A31	60° LW	40 to 70	Normal	39	30	40	31
UW-A32-0L	A32	0° LW	-30 to 30	Normal	50	30	40	20
UW-A32N55S	A32	55° SW	40 to 70	Normal	62	30	40	33
UW-A32N60L	A32	60° LW	40 to 70	Normal	56	30	40	43



989/16/2, FIRST FLOOR NEAR GAYATRI ICE INDUSTRIES,
MAKARPURA, VADODARA, GUJARAT - 390010



sales@ucomax.com



www.ucomax.com



+91 63588 33112