

Phased Array Transducers

DAAH Detachable Active Array Head

Sonatest manufacture a wide range of Array and Mono-Element probes suitable for use on the **veo** and Prisma, as well as other phased array flaw detectors.

The DAAH (Detachable Active Array Head) range provides a unique phased array probe solution using standard cables and a range of detachable probe heads. This concept yields advantages in cost and gives the end user more flexibility in the field during the inspection process.

All DAAH probes require an external adapter cable.

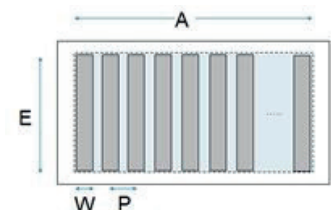
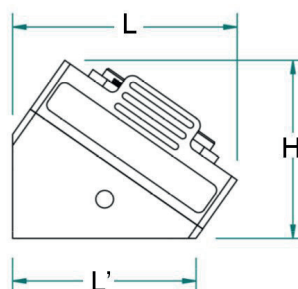
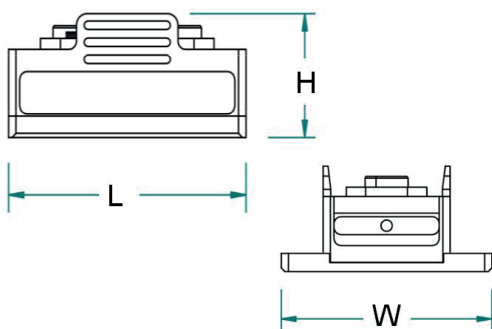
Features

- Phased array beam wave contact probe
- Rectangular, lead zirconate titanate crystal
- Damped for bandwidth
- Epoxy face

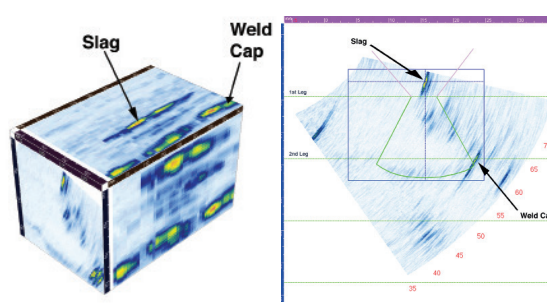
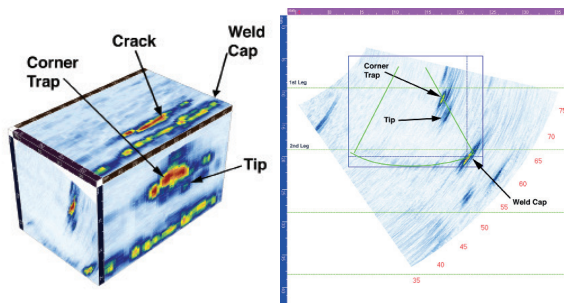
Frequent Applications

- Aerospace
- Composites
- Machined parts
- Critical Welds

Transducer Models										
type	Frequency	Wedge Cut Angle	No of Elements	Element Pitch	Aperture Length	Aperture Elevation	External Height	External Width	Overall Length	Footprint Length
p/n	(MHz)	(°)		P(mm)	A (mm)	E (mm)	H (mm)	W (mm)	L (mm)	L' (mm)
T1-PE-2.2M20E1.2P	2.25	external	20	1.2	24.0	12.0	14.7	29.3	32.0	-
T1-PE-2.2M19E1.2P-17WoD	2.25	17	19	1.2	22.8	12.0	22.6	17.6	33.8	30.0
T1-PE-2.2M14E1.2P-35WoD	2.25	35	14	1.2	16.8	12.0	27.5	17.6	34.1	28.0
T1-PE-5.0M32E0.8P	5	external	32	0.8	25.6	12.0	14.7	29.3	32.0	-
T1-PE-5.0M26E0.8P-17WoD	5	17	26	0.8	20.8	12.0	22.6	17.6	33.8	30.0
T1-PE-5.0M22E0.8P-35WoD	5	35	22	0.8	17.6	12.0	27.5	17.6	34.1	28.0
T1-PE-5.0M64E0.8P	5	external	64	0.8	51.2	12.0	20.6	29.2	60.0	-
T1-PE-7.5M44E0.6P	7.5	external	44	0.6	26.4	12.0	14.7	29.3	32.0	-
T1-PE-7.5M40E0.6P-17WoD	7.5	35	30	0.6	18.0	12.0	27.5	17.6	34.1	28.0
T1-PE-7.5M30E0.6P-35WoD	7.5	17	40	0.6	24.0	12.0	22.6	17.6	33.8	30.0
T5-PE-5.0M64E0.8P	5	external	64	0.8	51.2	12.0	20.6	29.2	60.0	-



Probes specified as external wedge must be used with an external wedge or delay line, the face is not wear-resistant. Integral Wedges – 17° longitudinal wave. 35° shear wave in steel.



Wedges

	Cut Angle	Features	Front Height	Back Height	Length	Width	Radius
p/n	(°)		(mm)	(mm)	(mm)	(mm)	(")
T1-12.7T0D-REXO	0	F	12.7	-	42	30	Flat
T1-25.4T0D-REXO	0	F	25.4	-	52	30	Flat
T1-17W0D-REXO	17	A	14.7	4.5	40.2	29.2	Flat
T1-35W0D-REXO	35	A	27.2	6.1	48.6	31.75	Flat
T5-12.7T0D-REXO	0	F	12.7	-	80	30	-
T5-25.4T0D-REXO	0	FI	25.4	-	80	30	-
T5-35W0D-REXO	35	A	59	16	109	32.2	-

Features: F - Flat Delay Line, A- Angled, I – Irrigated, R - Axial Radius

DAAH Cable Adaptors

Part Number	Probe Type	Number of Sockets	Cable Length	Connector Type
			(m)	
ASM-9038-HY200	T1	Single	2	Hypertronics
ASM-9038-IX200	T1	Single	2	IPEX
ASM-9038-IX800	T1	Single	8	IPEX
ASM-9039-HY200	T1	Dual	2	Hypertronics
ASM-9039-IX200	T1	Dual	2	IPEX
ASM-9039-IX800	T1	Dual	8	IPEX
ASM-9048-HY200	T5	Single	2	Hypertronics
ASM-9048-IX200	T5	Single	2	IPEX
ASM-9088-IX500	T5	Single	5	IPEX
ASM-9049-IX1200	T5/T1 Adaptor	Single	2	T5/T1 Adaptor

