

SAPPHIRE PROBES

New generation Phased Array probes without wedge



EKOSCAN proudly presents its new Phased-Array probe range: SAPHIRE. After 2 years of R&D, testing and qualification, EKOSCAN finalized the design of this unique kind of probe.

Through a revolutionary piezocomposite crystal technology associated to highly performant and wear resistant hybrid front face, SAPHIRE probes are the first contact phased-array probes in the world.

Ultrasonic waves transmission without wedge offers a lot of advantages:

- Reduced dead-zone
- Better signal to noise ratio
- Wedge echo suppression
- Frequency shift suppression (due to the wedge)

REFERENCE	TYPE	FREQUENCY MHz	NUMBER OF ELEMENTS	PITCH mm	ELEVATION mm
LINEAR PROBES					
EK10-LA3.5/16-SAPPHIRE	Linear	3.5	16	0.6	10
EK10-LA5/16-SAPPHIRE		5		0.6	10
EK10-LA7.5/32-SAPPHIRE		7.5	32	0.3	7
EK11-LA2.25/32-SAPPHIRE		2.25		0.6	10
EK11-LA5/32-SAPPHIRE		5	64	0.6	10
EK11-LA5/64-SAPPHIRE		5		0.35	8
EK11-LA10/64-SAPPHIRE		10		0.35	7
EK12-LA2.25/64-SAPPHIRE		2.25		0.6	10
EK12-LA3.5/64-SAPPHIRE		3.5		0.6	10
EK12-LA5/64-SAPPHIRE		5		0.6	10
EK12-LA7.5/64-SAPPHIRE		7.5	0.6	10	
EK12-LA10/64-SAPPHIRE		10	0.6	7	
MATRIX PROBES					
EK11-M5/64-SAPPHIRE	Matrix	5	64	1.4	2
EK11-M7.5/64-SAPPHIRE		7.5		1.3	1.8

