

NON-DESTRUCTIVE TESTING



EKOSCAN
INDUSTRIAL ULTRASOUND

Innovative solutions for your needs

ULTRASONIC PRODUCTS & EQUIPMENT

SYSTEMS, PROBES, WEDGES, BLOCKS & ACCESSORIES
FOR YOUR NEEDS

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NDT PRODUCTS



EKOSCAN
INDUSTRIAL ULTRASOUND

PROBES AND TRANSDUCERS



SYSTEMS



BLOCKS



ACCESSORIES



Find all our ranges of products on our website

www.ekoscan.fr



The story of EKOSCAN is one of continuity and evolution. It has been constant since 1973, the date our founder and CEO put a probe in his hand for the first time. Continuity again in our daily efforts to match your expectations. We take great pride in helping you succeed in your business.

EKOSCAN's story is also about evolving. Innovation must be a priority to survive the drastic changes of our industry.

You change, we adapt. In order to serve you better and control all aspects of manufacturing, our products are conceived, made, and tested in France by our team of experts.



EKOSCAN is certified ISO 9001: 2015

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ACOUSTICAL PROPERTIES OF COMMON MATERIALS

MATERIAL	Ultrasonic Velocity				
	LONGITUDINAL WAVE		SHEAR WAVE		IMPEDANCE Z
	in / μ s	mm / μ s	in / μ s	mm / μ s	
METALS					
Aluminum 1100-0	0.248	6.229	0.121	3.073	17.1
Aluminum 2024-T4	0.251	6.375	0.124	3.150	17.6
Aluminum 6061-T6	0.248	6.299	0.124	3.150	17.0
Beryllium	0.507	12.878	0.350	8.890	23.5
Brass (70% Cu - 30% Zn)	0.172	4.369	0.083	2.108	37.1
Bronze (Phosphor 5%)	0.139	3.531	0.088	2.235	31.3
Copper (CP)	0.187	4.750	0.092	2.337	42.5
Gold	0.128	3.251	0.047	1.194	62.6
Hastelloy C	0.230	5.842	0.114	2.896	52.2
Hastelloy X	0.228	5.791	0.108	2.743	47.7
Inconel (Wrought)	0.308	7.823	0.119	3.023	64.5
Iron (Cast), Various Alloys	0.138-0.220	3.505-5.588	0.087-0.126	2.210-3.200	24.3-41.2
Lead (94Pb-6Sb)	0.085	2.159	0.032	0.813	23.5
Magnesium, Various Alloys	0.215-0.228	5.461-5.791	0.119-0.122	3.023-3.099	9.24-10.6
Monel	0.211	5.359	0.107	2.718	47.2
Nickel (CP)	0.222	5.639	0.117	2.972	50.0
Silver (0.99 Fine)	0.142	3.607	0.063	1.600	37.8
Steel 1020	0.232	5.893	0.128	3.251	45.4
Steel 4340	0.230	5.842	0.128	3.251	45.6
Steel , CRES 300 Series	0.221-0.226	5.613-5.740	0.120-0.123	3.048-3.124	44.6-45.4
Steel , CRES 400 Series	0.212-0.237	5.385-6.020	0.118-0.132	2.997-3.353	41.3-46.3
Titanium, 6Al-4V	0.243	6.172	0.130	3.302	27.3
Zircaloy	0.186	4.724	0.093	2.362	44.2
Zirconium	0.183	4.648	0.089	2.261	30.1
POLYMERS					
Acrylics	0.105-0.109	2.667-2.769	0.044-0.057	1.118-1.448	3.15-3.51
Cellulose Acetate	0.096	2.438	No Shear Component		3.19
Nylon	0.016	2.692	No Shear Component		-
Phenolic	0.056	1.422	No Shear Component		1.90
Polycarbonate	0.090	2.286	No Shear Component		2.71
Polyethylene	0.105	2.667	No Shear Component		2.94
Polystyrene	0.094	2.388	0.045	1.143	2.52
Rubber (natural)	0.061	1.549	No Shear Component		1.74
Rubber (Carbon Filter)	0.066	1.676	No Shear Component		-
Rubber (Silicone)	0.037	0.94	No Shear Component		1.40
Teflon	0.054	1.372	0.250	6.35	3.00

ACOUSTICAL PROPERTIES OF COMMON MATERIALS

MATERIAL	Ultrasonic Velocity				
	LONGITUDINAL WAVE		SHEAR WAVE		IMPEDANCE
	in / μ s	mm / μ s	in / μ s	mm / μ s	Z
MISCELLANEOUS SOLIDS					
Alumina (Al ₂ O ₃)	0.427	10.846	No Shear Component		43.1
Concrete	0.167-0.207	4.242-5.258	0.135	3.429	12.4
Glass (Plate)	0.227	5.766	No Shear Component		14.5
Granite	0.156	3.962	0.076	1.93	10.9
Ice (-16 °C)	0.150	3.81	No Shear Component		3.60
Quartz, Natural	0.226	5.74	0.139	3.531	15.2
Quartz, Fused	0.219	5.563	0.302	7.671	14.5
Sapphire	0.469	11.913	0.157	3.988	47.2
Tungsten Carbide	0.262	6.655	No Shear Component		67.6
COMPOSITE MATERIALS					
Fiberglass (50 v/o)	0.124	3.15	0.068	1.727	6.04
Graphite/Epoxy (60 v/o)	0.117	2.972	0.077	1.956	4.65
Boron/Epoxy (50 v/o)	0.131	3.327	0.072	1.829	6.38
LIQUIDS					
Ethylene Glycol	0.064	1.626	No Shear Component		1.80
Glycerin	0.076	1.93	No Shear Component		2.42
Oil (SAE 20)	0.069	1.753	No Shear Component		1.51
Water (20 °C)	0.058	1.473	No Shear Component		1.48
LIQUIDS					
Air (20°C)	0.014	0.356	No Shear Component		0.00041
Nitrogen (20°C)	0.014	0.356	No Shear Component		0.00041
Oxygen (20°C)	0.013	0.33	No Shear Component		0.00043



THE ULTRASOUND THEORY

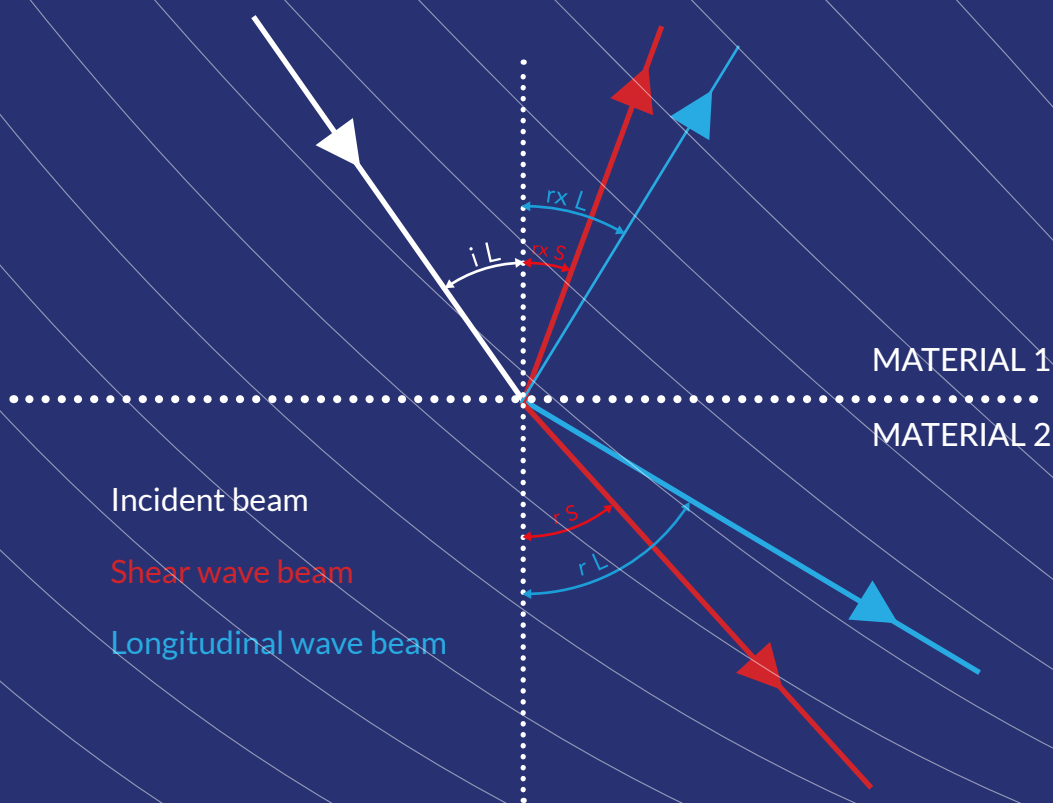
BASICS

$$f = \frac{1}{T}$$
$$\lambda = \frac{c}{f}$$

f : frequency in Hertz (Hz)
 T : period in second (s)
 c : sound celerity in meter per second (m/s)
 λ : wavelength in millimeter (mm)

SNELL-DESCARTES RULE

$$\frac{\sin i_L}{c_{L1}} = \frac{\sin s_2}{c_{S2}} = \frac{\sin L_2}{c_{L2}} = \frac{\sin S_1}{c_{S1}} = \frac{\sin L_1}{c_{L1}}$$



BEAM APERTURE ANGLE

$$\sin \alpha = 1,22 \frac{\lambda}{D}$$

FRESNEL ZONE

$$N = \frac{D^2}{4 \lambda}$$

ACOUSTIC IMPEDANCE

$Z = \rho c$ ρ : material density
 c : sound celerity in meter per second (m/s)

TRANSMISSION COEFFICIENT

Amplitude $\frac{Z_2 - Z_1}{Z_1 + Z_2}$

Energy $\frac{(Z_2 - Z_1)^2}{(Z_1 + Z_2)^2}$

REFLEXION COEFFICIENT

$$\frac{2 Z_2}{Z_1 + Z_2}$$

$$\frac{4 Z_1 Z_2}{(Z_1 + Z_2)^2}$$



TRANSDUCERS

Each of our transducer is delivered with its EN12668-2 certificate



CONVENTIONAL TRANSDUCERS

Aeronautics

Railway

Contact

Immersion

TOFD

Specific

AMW SERIES

Standard angle beam probes

AERONAUTICS MINIATURE EDITION

AMW - 4x6

A	10.8 mm	
B	10 mm	
C	8 mm	

Technical specifications

- Shear wave transducer
- Microdot back or top connector upon request
- Very small footprint
- High resolution, sensitivity and repeatability

Main applications

- Contact inspection
- Inspection of parts with complex geometry
- Parts up to 6 mm thick
- Aircraft component inspection
- Detection of flaws in profile changing surfaces

REFERENCE	REFRACTED ANGLE in °	FREQUENCY MHz	CRYSTAL SIZE mm	CONNECTOR
AMW38-2.25	38	2.25	4x6	Microdot
AMW45-2.25	45			
AMW60-2.25	60			
AMW70-2.25	70			
AMW38-5	38	5		
AMW45-5	45			
AMW60-5	60			
AMW70-5	70			
AMW38-7.5	38	7.5		
AMW45-7.5	45			
AMW60-7.5	60			
AMW70-7.5	70			
AMW38-10	38	10		
AMW45-10	45			
AMW60-10	60			
AMW70-10	70			



SMW SERIES

SMW - 6x6

Standard angle beam probes

SUBMINIATURE EDITION

Technical specifications

- Shear wave transducer
- Wear resistant thermoplastic wedges
- Microdot back or top connector upon request
- High resolution, sensivity and repeatability

Main applications

- Contact inspection
- Inspection of parts with complex geometry
- Parts up to 8 mm thick
- Weld inspection
- Detection of flaws in profile changing surfaces

REFERENCE	REFRACTED ANGLE in °	FREQUENCY MHz	CRYSTAL SIZE mm	CONNECTOR
SMW35-5	35	5	6x6	Microdot
SMW38-5	38			
SMW45-5	45			
SMW60-5	60			
SMW70-5	70			
SMW35-7.5	35	7.5		
SMW38-7.5	38			
SMW45-7.5	45			
SMW60-7.5	60			
SMW70-7.5	70			
SMW35-10	35	10		
SMW38-10	38			
SMW45-10	45			
SMW60-10	60			
SMW70-10	70			



A	16 mm	
B	25 mm	
C	12 mm	



LG SERIES

Delay Line Probes

Technical specifications

- Longitudinal wave transducer
- Microdot axial connector
- Contact or with a water film scanning
- Interchangeable protective wedges
- Shielding adapted to automated inspection
- Bandwidth $\geq 75\%$
- LG-10 probes are delivered with anti-wear rings

Main applications

- Inspection of composite parts, carbon or epoxy glass fiber
- Characterization of flaws in metal parts
- Flaws detection and sizing near surface at a 0.25 mm in-depth
- Density measurements

High temperature delay line upon request up to 250 °C

REFERENCE	FREQUENCY MHz	CRYSTAL SIZE mm	DELAY LINE LW 0°	CONNECTOR	
LG10-3	10	3	S10 (10 mm)	Microdot	
LG15-3	15				
LG3-6	3	6			
LG5-6	5				
LG8-6	8				
LG10-6	10				
LG15-6	15				
LG3-10	3	10			SG13 (13 mm)
LG5-10	5				
LG8-10	8				
LG10-10	10				
LG3-13	3	13			
LG5-13	5				
LG10-13	10				
LG15-13	15				
LG3-15	3	15	SH13 (13 mm)		
LG5-15	5				
LG8-15	8				



S10 DELAY LINE



TPG Wedge



LP Wedge

LG WEDGES SERIES

LG shear wave wedges

REFERENCE	REFRACTED ANGLE IN °	ADAPTABLE PROBES
INTERCHANGEABLE SCREWED WEDGES		
TS38	38	LG-3 / LG-6
TS45	45	
TS60	60	
TS70	70	
TSG38	38	LG-10 / LG-13
TSG45	45	
TSG60	60	
TSG70	70	
TSH38	38	LG-15
TSH45	45	
TSH60	60	
TSH70	70	
INTERCHANGEABLE SLOT IN WEDGES		
TP38	38	LG-3 / LG-6
TP45	45	
TP60	60	
TP70	70	
TPG38	38	LG-10 / LG-13
TPG45	45	
TPG60	60	
TPG70	70	
TPH38	38	LG-15
TPH45	45	
TPH60	60	
TPH70	70	

LG longitudinal wave wedges

REFERENCE	REFRACTED ANGLE IN °	ADAPTABLE PROBES
INTERCHANGEABLE SCREWED WEDGES		
LS38	38	LG-3 / LG-6
LS45	45	
LS60	60	
LS70	70	
LSG38	38	LG-10 / LG-13
LSG45	45	
LSG60	60	
LSG70	70	
LSH38	38	LG-15
LSH45	45	
LSH60	60	
LSH70	70	
INTERCHANGEABLE SLOT IN WEDGES		
LP38	38	LG-3 / LG-6
LP45	45	
LP60	60	
LP70	70	
LPG38	38	LG-10 / LG-13
LPG45	45	
LPG60	60	
LPG70	70	
LPH38	38	LG-15
LPH45	45	
LPH60	60	
LPH70	70	







CONVENTIONAL TRANSDUCERS

Aeronautics

Railway

Contact

Immersion

TOFD

Specific

RAIL INSPECTION: PROBES AND TOOLS

Shear and longitudinal waves

TRIPLE MANUAL - TRIPLE STICK



“TRIPLE MANUAL” PROBE

The purpose of this probe is to ensure monitoring, evolution and characterization of flaws in manual mode. The probe is made up of 3 independent, commutable elements which can be switched with a 3 way-switch:

- Shear waves 38°, frequency 4 MHz
- Shear waves 68°, frequency 4 MHz
- Longitudinal waves 0°, frequency 4 MHz

Ref:

- EKTМ



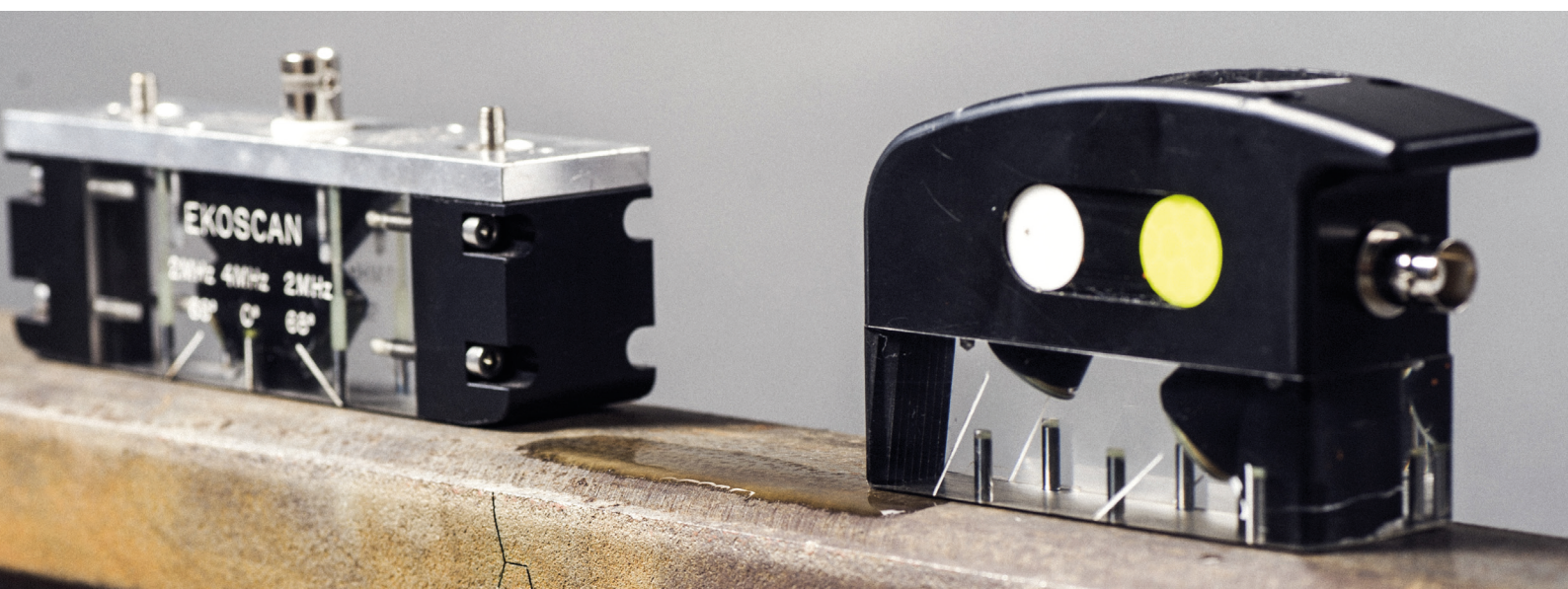
“TRIPLE STICK” PROBE

A probe composed of three ceramic piezoelectric elements is used for the detection of transverse cracks and rail head detachment. The three piezoelectric elements are balanced in sensitivity to allow simplified calibration (amplification and sound circuit). This new generation “triple stick” transducer is equipped with an anti-wear pad in the front and back sides of the wedge. Triple stick probe is used with EKOSCAN inspection stick for a quick and comfortable inspection.

- Shear waves 68°, frequency 2 MHz
- Longitudinal wave 0°, frequency 4 MHz
- One unique connector for the 3 crystals

Ref:

- EKTC



TRIPLE STICK PROBE MOUNTED ON INSPECTION STICK



✓ APPROVED



RAIL INSPECTION: INSPECTION STICK

Inspection stick used in rail flaw detection



✓ APPROVED

Magnetic testing stick with an adjusted telescopic handle. For more comfort at work this telescopic handle can be adjusted to the user's height.

An aluminum carriage equipped with 2 magnetic wheels prevents derailment of the stick. An adjustable water inlet minimizes water flow. This probe is maintained in place thanks to 2 retaining springs.

Ref:

- EKORAIL3
- SAC



LOCOMOTIVE MOUNTED PROBES

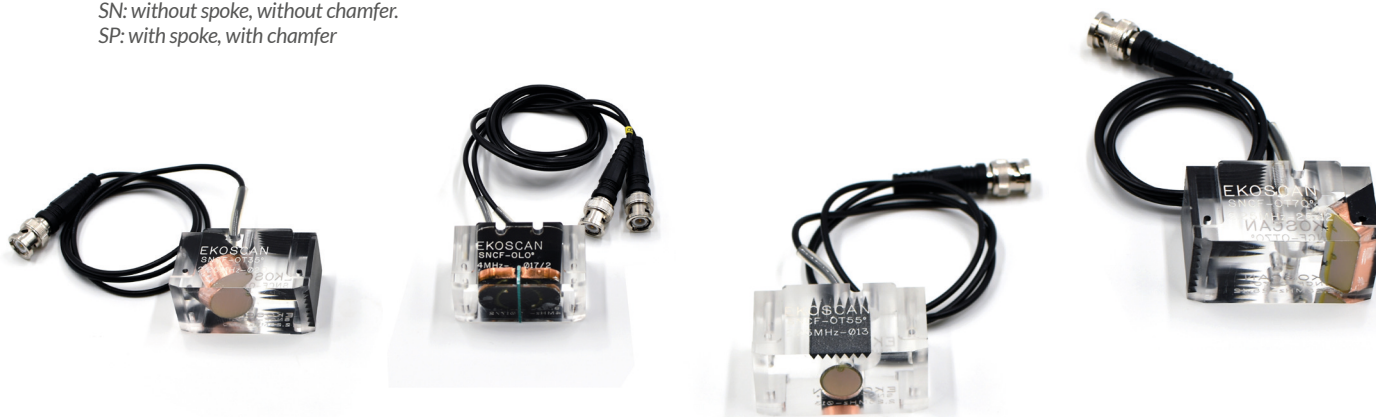
Shear and longitudinal waves

Probes are mounted on wagons for automated conventional or TOFD railway inspection

REFERENCE	REFRACTED ANGLE IN°	FREQUENCY MHz	CRYSTAL SIZE mm	CONNECTOR
SHEAR WAVE TRANSDUCERS				
V6-ERC-OT35-2.25-D20-SN	35	2.25	Ø20	BNC
V6-ERC-OT35-2.25-D20-SP				
V6-ERC-OT55-2.25-D13-SN	55		Ø13	
V6-ERC-OT55-2.25-D13-SP				
V6-ERC-OT70-2.25-25X12-SN	70		25x12	
V6-ERC-OT70-2.25-25X12-SP				
V6-ERC-OT70/5D-2.25-20X15-SN			20x15	
V6-ERC-OT70/5D-2.25-20X15-SP				
V6-ERC-OT70/5G-2.25-20X15-SN				
V6-ERC-OT70/5G-2.25-20X15-SP				
LONGITUDINAL WAVE TRANSDUCERS				
V6-ERD-OL0-2.25-D17/2-SN	0	2.25	Ø17/2	BNC
V6-ERD-OL0-2.25-D17/2-SP				
V6-ERD-OL0-4-D17/2-SN		4		
V6-ERD-OL0-4-D17/2-SP				
V6-ERD-OL55/TOFD-2.25-4X20-SN	55	2.25	4x20	
V6-ERD-OL55/TOFD-2.25-4X20-SP				
SPI-ERC-OT70/5D-2.25-20X15-MA	70	2.25	20x15	
SPI-ERC-OT70/5G-2.25-20X15-MA				
SHEAR WAVE TRANSDUCERS				
V3-ERC-OT70D-2.25-15X20-SN	70	2.25	15x20	Lemo00 D
V3-ERC-OT70G-2.25-15X20-SN				Lemo00 G
LONGITUDINAL WAVE TRANSDUCERS				
V3-ERD-OL0-2.25-D17/2-SN	0	2.25	Ø17/2	Lemo00

SN: without spoke, without chamfer.

SP: with spoke, with chamfer







RAIL INSPECTION: EKORAIL4

EKORAIL4 has been designed to allow the simultaneous inspection of both rails. Pushed along the track by a qualified SNCF operator, this mechanical system uses two SNCF approved EKTC transducers, equipped with three active elements (68 °, 0 °, 68 °). It allows the detection of vertical and horizontal cracks. The information collected is displayed on one unique screen (right rail / left rail) for real-time visualization.

The EKOSCAN EKORAIL4 has been designed for easy use on any type of tracks. Its maintenance is quick and simple. A smart system allows the EKORAIL4 to be folded for easy transportation. The EKORAIL4 is also compatible with metric lines and can fit in an utility vehicle.

The ultrasonic boards are protected by a holder from weather conditions (sun, rain...). The EKORAIL4 is supplied with two SNCF approved EKTC transducers. A wheel encoder allows the precise localization of anomalies detected along the tracks.

The EKORAIL4 is also available without any UT board holder but with a bluetooth connected device allowing an overall weight reduction of 3 kg.

Ref:

- EKORAIL4





CONVENTIONAL TRANSDUCERS

Aeronautics

Railway

Contact

Immersion

TOFD

Specific

Shear wave angle beam transducers

MINIATURE EDITION

Technical specifications

- Shear wave transducer
- High-energy piezoelectric element
- Lemo00 axial or top output connectors upon request
- Shielding adapted to automated control
- High resolution, sensitivity and repeatability
- AVG diagrams available upon request
- Wear resistant probes

Main applications

- Contact inspection
- Inspection of parts with complex geometry
- 8 mm to 50 mm thick parts
- Used for production and maintenance

REFERENCE	REFRACTED ANGLE in °	FREQUENCY MHz	CRYSTAL SIZE mm	CONNECTOR
SHEAR WAVE ANGLE BEAM TRANSDUCERS				
MW35-4	35	4	8x9	Lemo00-Axial
MW38-4	38			
MW45-4	45			
MW60-4	60			
MW70-4	70			
MW35-4 TC	35	4	8x9	Lemo00-Top connector
MW38-4 TC	38			
MW45-4 TC	45			
MW60-4 TC	60			
MW70-4 TC	70			
SURFACE WAVE TRANSDUCER				
MW90-4	90	4	8x9	Lemo00-Axial

A	22 mm	
B	28 mm	
C	16,7 mm	



MW45-4



MW60-4



MW70-4

Shear wave angle beam transducers

PIEZOCOMPOSITE MINIATURE EDITION

Technical specifications

- Shear wave transducer
- High-energy piezocomposite element
- Lemo00 axial or top output connectors upon request
- Shielding adapted to automated control
- High resolution, sensivity and repetability
- AVG diagrams available upon request
- Wear resistant probes

Main applications

- Contact inspection
- Inspection of parts with complex geometry
- 8 mm to 50 mm thick parts
- Used for production and maintenance

REFERENCE	REFRACTED ANGLE in °	FREQUENCY MHz	CRYSTAL SIZE mm	CONNECTOR
MW35-2 PC	35	2	8x9	Lemo00-Axial
MW38-2 PC	38			
MW45-2 PC	45			
MW60-2 PC	60			
MW70-2 PC	70			
MW35-2 PC TC	35			Lemo00-Top connector
MW38-2 PC TC	38			
MW45-2 PC TC	45			
MW60-2 PC TC	60			
MW70-2 PC TC	70			

A	22 mm	
B	28 mm	
C	16,7 mm	



MIW PC SERIES

Shear waves angle beam transducers

PIEZOCOMPOSITE MINIATURE EDITION

MIW PC
14x16 or 14x14

Technical specifications

- Shear wave transducer
- High-energy piezocomposite element
- Lemo00 axial or top output connectors upon request
- Shielding adapted to automated control
- High resolution, sensitivity and repeatability
- AVG diagrams available upon request
- Wear resistant probes

Main applications

- Contact inspection
- Inspection of parts with complex geometry
- 8 mm to 50 mm thick parts
- Used for production and maintenance

REFERENCE	REFRACTED ANGLE iN °	FREQUENCY MHz	CRYSTAL SIZE mm	CONNECTOR		
MIW35-2 14x14 PC	35	2	14x14	Lemo00-Axial		
MIW38-2 14x14 PC	38					
MIW45-2 14x14 PC	45					
MIW60-2 14x14 PC	60					
MIW70-2 14x14 PC	70					
MIW35-4 14X14 PC	35	4			14x14	Lemo00-Axial
MIW38-4 14X14 PC	38					
MIW45-4 14x14 PC	45					
MIW60-4 14x14 PC	60					
MIW70-4 14X14 PC	70					
MIW35-2 14X14 PC TC	35	2	14x14	Lemo00-Top connector		
MIW38-2 14X14 PC TC	38					
MIW45-2 14X14 PC TC	45					
MIW60-2 14X14 PC TC	60					
MIW70-2 14X14 PC TC	70					
MIW35-4 14X14 PC TC	35	4			14x14	Lemo00-Top connector
MIW38-4 14X14 PC TC	38					
MIW45-4 14X14 PC TC	45					
MIW60-4 14X14 PC TC	60					
MIW70-4 14X14 PC TC	70					



MIW 14x16	A	30 mm	
	B	43 mm	
	C	21 mm	
MIW 14x14	A	30 mm	
	B	38 mm	
	C	20 mm	

REFERENCE	REFRACTED ANGLE in °	FREQUENCY MHz	CRYSTAL SIZE mm	CONNECTOR		
MIW35-2 14x16 PC	35	2	14x16	Lemo00-Axial		
MIW38-2 14x16 PC	38					
MIW45-2 14x16 PC	45					
MIW60-2 14x16 PC	60					
MIW70-2 14x16 PC	70					
MIW35-4 14X16 PC	35	4			14x16	Lemo00-Axial
MIW38-4 14X16 PC	38					
MIW45-4 14x16 PC	45					
MIW60-4 14X16 PC	60					
MIW70-4 14X16 PC	70					
MIW35-2 14X16 PC TC	35	2	14x16	Lemo00-Top connector		
MIW38-2 14X16 PC TC	38					
MIW45-2 14X16 PC TC	45					
MIW60-2 14X16 PC TC	60					
MIW70-2 14X16 PC TC	70					
MIW35-4 14X16 PC TC	35	4			14x16	Lemo00-Top connector
MIW38-4 14X16 PC TC	38					
MIW45-4 14X16 PC TC	45					
MIW60-4 14X16 PC TC	60					
MIW70-4 14X16 PC TC	70					



MIW SERIES

Shear waves angle beam transducers

MINIATURE EDITION

MIW

14x16 or 14x14

Technical specifications

- Shear wave transducer
- High-energy piezoelectric element
- Lemo00 axial or top output connectors upon request
- Shielding adapted to automated control
- High resolution, sensivity and repetability
- AVG diagrams available upon request
- Wear resistant probes

Main applications

- Contact inspection
- Inspection of parts with complex geometry
- 8 mm to 50 mm thick parts
- Used for production and maintenance

REFERENCE	REFRACTED ANGLE iN °	FREQUENCY MHz	CRYSTAL SIZE mm	CONNECTOR
MIW35-4 14x14	35	4	14x14	Lemo00-Axial
MIW38-4 14x14	38			
MIW45-4 14x14	45			
MIW60-4 14x14	60			
MIW70-4 14x14	70			
MIW35-4 14X14 TC	35	4	14x14	Lemo00-Top connector
MIW38-4 14X14 TC	38			
MIW45-4 14X14 TC	45			
MIW60-4 14X14 TC	60			
MIW70-4 14X14 TC	70			
MIW35-4 14x16	35	4	14x16	Lemo00-Axial
MIW38-4 14x16	38			
MIW45-4 14x16	45			
MIW60-4 14x16	60			
MIW70-4 14x16	70			
MIW35-4 14X16 TC	35	4	14x16	Lemo00-Top connector
MIW38-4 14X16 TC	38			
MIW45-4 14X16 TC	45			
MIW60-4 14X16 TC	60			
MIW70-4 14X16 TC	70			



MIW 14x16	A	30 mm	
	B	43 mm	
	C	21 mm	
MIW 14x14	A	30 mm	
	B	38 mm	
	C	20 mm	

Shear waves angle beam transducers

STANDARD EDITION

Technical specifications

- Shear wave transducer
- High-energy piezoelectric element
- Lemo1 back output connectors
- AVG diagrams upon request
- High resolution, sensivity and repetability
- AVG diagrams available upon request
- Wear resistant probes

Main applications

- Contact inspection
- Inspection of parts with complex geometry
- Parts above 50 mm thick
- Used for production and maintenance

A	45 mm	
B	54 mm	
C	32 mm	

REFERENCE	REFRACTED ANGLE in °	FREQUENCY MHz	CRYSTAL SIZE mm	CONNECTOR
W35-1	35	1	20x22	Lemo01-Axial
W38-1	38			
W45-1	45			
W60-1	60			
W70-1	70			
W35-2	35	2		
W38-2	38			
W45-2	45			
W60-2	60			
W70-2	70			
W35-4	35	4		
W38-4	38			
W45-4	45			
W60-4	60			
W70-4	70			
W35-1 TC	35	1	20x22	Lemo01-Top connector
W38-1 TC	38			
W45-1 TC	45			
W60-1 TC	60			
W70-1 TC	70			
W35-2 TC	35	2		
W38-2 TC	38			
W45-2 TC	45			
W60-2 TC	60			
W70-2 TC	70			
W35-4 TC	35	4		
W38-4 TC	38			
W45-4 TC	45			
W60-4 TC	60			
W70-4 TC	70			

EK-H SERIES

Longitudinal waves 0°, hard wear plate

STANDARD OR MINIATURE EDITION

Technical specifications

- Longitudinal wave transducer
- High energy piezocomposite element
- Lateral output connector
- Shielding adapted to automated control
- High resolution, sensivity and repetability
- AVG diagrams upon request
- Abrasion-resistant front part

Main applications

- Contact inspection of flat parts (sheet of metal)
- Inspection of rough or machined surfaces
- Used for production and maintenance
- Smooth or rough material
- Inspection of large forging parts

REFERENCE	FREQUENCY MHz	CRYSTAL SIZE mm	CONNECTOR	
EK1H10	1	10	Lemo00	
EK2H10	2			
EK4H10	4			
EK5H10	5			
EK1H20	1	20		
EK2H20	2			
EK4H20	4			
EK5H20	5			
EK1H24	1	24		Lemo01
EK2H24	2			
EK4H24	4			



EK4H24



EK4H24



EK4H10

EK-M SERIES

Longitudinal waves 0°, membrane

STANDARD OR MINIATURE EDITION

Technical specifications

- Longitudinal wave transducer
- High energy piezocomposite element
- Lemo00 lateral output connector and Lemo01
- Shielding adapted to automated control
- High resolution, sensivity and repetability
- AVG diagrams upon request
- Protection membrane available

Main applications

- Contact inspection of flat pieces (sheet of metal)
- Inspection of rough or machined surfaces
- Used for production and maintenance
- Smooth or rough material
- Inspection of large forging parts

REFERENCE	FREQUENCY MHz	CRYSTAL SIZE mm	CONNECTOR	MEMBRANE
EK1M10	1	10	Lemo00	MEM10
EK2M10	2			
EK4M10	4			
EK5M10	5			
EK1M20	1	20		MEM20
EK2M20	2			
EK4M20	4			
EK5M20	5			
EK1M24	1	24	Lemo01	MEM24
EK2M24	2			
EK4M24	4			



EK4M10



EK4M24



MEM10



EKD SERIES

Longitudinal waves - Dual crystal

STANDARD EDITION

Technical specifications

- Longitudinal wave transducers
- Dual element probes
- Semicircular or rectangular elements
- Low interference between emission and reception
- Lemo00 connector
- Shielding adapted to automated inspection
- High resolution, sensivity and repetability

Main applications

- Can be used for inspection according to EN 10160
- Detection of small or/and near surface flaws
- Corrosion detection on pipes
- Inspection of stainless steel cladding on ferritic steel
- Inspection of metal sheet and thin forged parts

REFERENCE	FREQUENCY MHz	CRYSTAL SIZE mm	FOCAL DEPTH mm	CONNECTOR
EKD1-21/2	1	Ø21/2	10	Lemo00
EKD2-7/18F15	2	7x18	15	
EKD2-7/18 0°			20	
EKD2-10		3.5x10	10	
EKD2-20		Ø20/2	20	
EKD4-6/20 F12	4	6x20	12	
EKD4-6/20 F25			25	
EKD4-10		3.5x10	10	
EKD4-20		Ø20/2	20	
EKD5-10	5	3.5x10	10	



EKD2-7/18F15



EKD4-10

SD-SMD SERIES

Longitudinal waves - Dual crystal

MINIATURE EDITION

Technical specifications

- Longitudinal wave transducers
- Dual element probes
- Semicircular or rectangular elements
- Low interference between emission and reception
- Microdot connectors
- Shielding adapted to automated inspection
- High resolution, sensivity and repetability

Main applications

- Can be used for inspection according to EN 10160
- Detection of small or/and near surface flaws
- Corrosion detection on pipes
- Inspection of stainless steel cladding on ferritic steel
- Inspection of metal sheet and thin forged parts

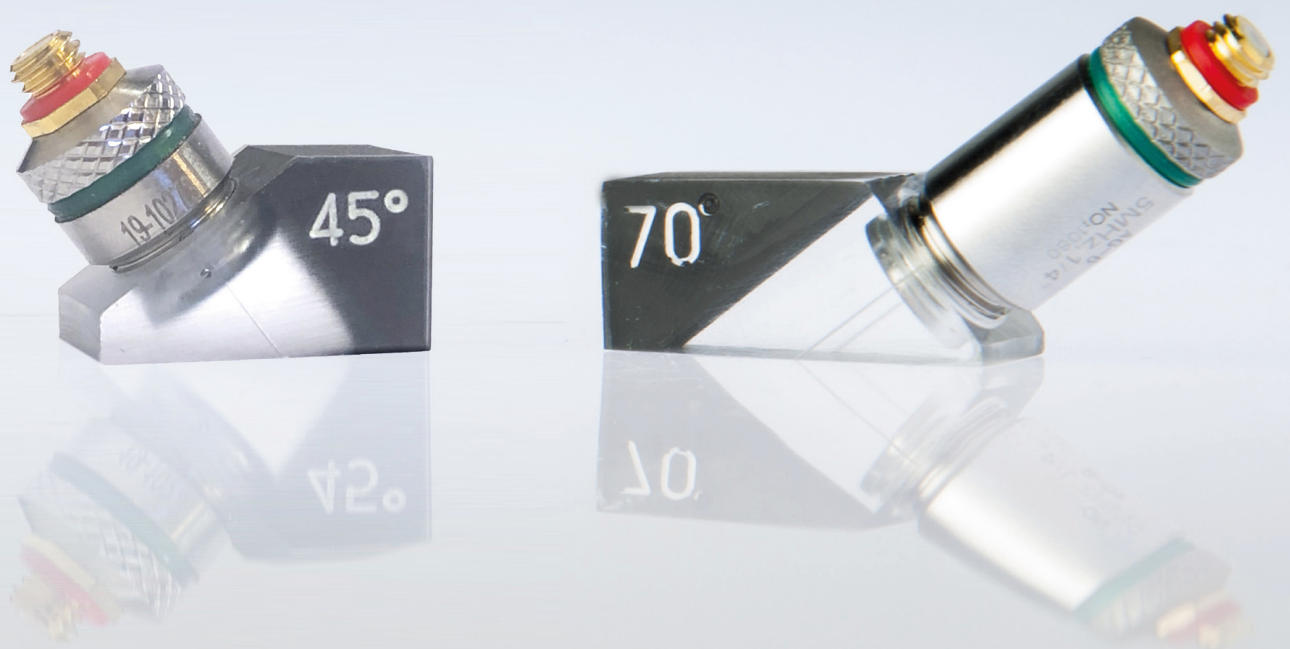
REFERENCE	FREQUENCY MHz	CRYSTAL SIZE mm	FOCAL DEPTH mm	CONNECTOR
SD-5	5	Ø5/2	6	Microdot
SD-10	10			
SMD4F8	4	Ø10/2	8	
SMD5F8	5	Ø5/2	3	
SMD5F3				
SMD10F3	10			



SD10



SMD10F3



SWQ SERIES

Longitudinal waves transducers with interchangeable wedges

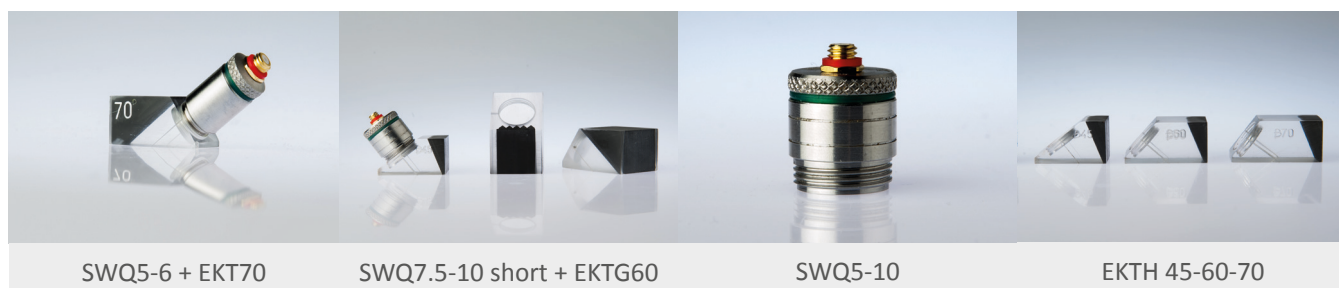
SUBMINIATURE EDITION

Technical specifications

- Longitudinal wave transducers
- Microdot axial connector
- Probes can be screwed on specific angle wedges to generate shear and longitudinal waves
- Custom made wedges available

Main applications

- Inspection of parts with complex geometry
- 6 mm to 15 mm thick parts



REFERENCE	FREQUENCY MHz	CRYSTAL SIZE mm	WEDGE FOR SHEAR WAVES INSPECTION	WEDGE FOR LONGITUDINAL WAVES INSPECTION
SWQ2.25-6	2.25	6	EKT Series	EKL Series
SWQ3.5-6	3.5			
SWQ5-6	5			
SWQ7.5-6	7.5			
SWQ10-6	10			
SWQ2.25-10	2.25	10	EKTG Series	EKLG Series
SWQ3.5-10	3.5			
SWQ5-10	5			
SWQ7.5-10	7.5			
SWQ10-10	10			
SWQ2.25-13	2.25	13	EKTH Series	EKLH Series
SWQ3.5-13	3.5			
SWQ5-13	5			
SWQ7.5-13	7.5			
SWQ10-13	10			

SWQ WEDGES SERIES

EKT

SERIES		REFERENCE	REFRACTED ANGLE IN °	ADAPTABLE PROBES
EKT	Standard	EKT35	35	Interchangeable wedges for SWQ-6
		EKT38	38	
		EKT45	45	
		EKT60	60	
		EKT70	70	
		EKT90	90	
	Court	EKT35-C	35	
		EKT38-C	38	
		EKT45-C	45	
		EKT60-C	60	
		EKT70-C	70	
		EKT90-C	90	
EKTG	EKTG35	35	Interchangeable wedges for SWQ-10	
	EKTG38	38		
	EKTG45	45		
	EKTG60	60		
	EKTG70	70		
EKTH	EKTH35	35	Interchangeable wedges for SWQ-13	
	EKTH38	38		
	EKTH45	45		
	EKTH60	60		
	EKTH70	70		

EKL

SERIES		REFERENCE	REFRACTED ANGLE IN °	ADAPTABLE PROBES
EKL	EKL35	35	Interchangeable wedges for SWQ-6	
	EKL38	38		
	EKL45	45		
	EKL60	60		
	EKL70	70		
EKLG	EKLG35	35	Interchangeable wedges for SWQ-10	
	EKLG38	38		
	EKLG45	45		
	EKLG60	60		
	EKLG70	70		
EKLG	EKLH35	35	Interchangeable wedges for SWQ-13	
	EKLH38	38		
	EKLH45	45		
	EKLH60	60		
	EKLH70	70		



VP AND DVP SERIES

Variable angle transducers

STANDARD OR MINIATURE EDITION

Technical specifications

- Single or dual element probes
- Shear or longitudinal transducer depending on angle
- Ultrasonic beam angle can be modified manually
- High resolution, sensitivity and repeatability
- Interchangeable piezoelectric elements
- Probes which can be used up to 140 °C for uninterrupted operations
- Three faces of the probe can be used when inspecting
- Lemo00 connector

Main applications

- Contact control of variable profile parts (nozzles...)
- Standard inspections and expertise on welds during or after welding
- Austenitic steel inspections
- TOFD inspection of materials
- Inspections of surfaces using Lamb waves
- Development of ultrasonic inspection methods

EDITION	REFERENCE	TYPE	FREQUENCY MHz	CRYSTAL SIZE mm	ROOF ANGLE in °	CONNECTOR
MINIATURE	MVP1	Mono-element	1	8x9	-	Lemo00
	MVP2		2			
	MVP4		4			
	MDVP2-1	Bi-elements	2	3.5x10	1	
	MDVP2-3				3	
	MDVP4-1		4		1	
	MDVP4-3				3	
STANDARD	VP05	Mono-element	0.5	20x22	-	
	VP1		1			
	VP2		2			
	VP4		4			
	DVP2-3	Bi-elements	2	6x20	3	
	DVP4-3		4			



MVP/ MDVP	A	40 mm	
	B	45 mm	
	C	20 mm	
DVP/VP	A	48 mm	
	B	62 mm	
	C	32 mm	



HIGH TEMPERATURE TRANSDUCER RANGE

Shear/Longitudinal wave transducers

HT EDITION

Technical characteristics

- High-energy piezoelectric element
- For temperatures up to **150 °C**
- Lemo00 output connectors
- Shielding adapted to automated control
- High resolution, sensivity and repetability
- Wear resistant probes

Main applications

- High temperature contact inspection
- Inspection of parts with complex geometry
- 8 mm to 50 mm thick parts
- Used for production and maintenance

REFERENCE	REFRACTED ANGLE in °	CRYSTAL SIZE mm	FREQUENCY MHz	CONNECTOR
SHEAR WAVE TRANSDUCERS				
MW45-4-HT	45	8x9	4	Lemo00
MW60-4-HT	60			
MW70-4-HT	70			
MIW45-4-HT 14x14	45	14x14		
MIW60-4-HT 14x14	60			
MIW70-4-HT 14x14	70			
MIW45-4-HT 14x16	45	14x16		
MIW60-4-HT 14x16	60			
MIW70-4-HT 14x16	70			
LONGITUDINAL WAVE TRANSDUCERS				
EKD4-10-HT	0	3.5x10	4	Lemo00
HT510			5	

Additional characteristics (high temperature applications, frequency, angle, piezo size, top connectors) upon request
Steel value, please contact us about other materials (aluminium, cast iron, stainless steel, plastic parts)

DL AND DLM SERIES

Longitudinal angle beam transducers

STANDARD OR MINIATURE EDITION

Technical specifications

- Longitudinal wave transducer
- Dual element probe
- Lemo00 back output connector
- Shielding adapted to automatic control
- High resolution, sensitivity and repeatability
- System of water irrigation upon request
- Wear resistant probes

Main applications

- Contact inspection
- Probes used for austenitic weld inspection in either automatic or manual mode
- Adapted or standard depth focusing
- Can be used up to 100 °C
- Creeping waves inspection

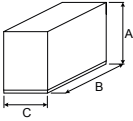
EDITION	REFERENCE	REFRACTED ANGLE IN °	FREQUENCY MHz	CRYSTAL SIZE mm	CONNECTOR
TRL TRANSDUCERS					
MINIATURE	DLM38-2 5x10	38	2	5x10	Lemo00
	DLM45-2 5x10	45			
	DLM60-2 5x10	60			
	DLM38-4 5x10	38	4		
	DLM45-4 5x10	45			
	DLM60-4 5x10	60			
	DLM38-2 6x13	38	2	6x13	
	DLM45-2 6x13	45			
	DLM60-2 6x13	60			
	DLM38-4 6x13	38	4		
	DLM45-4 6x13	45			
	DLM60-4 6x13	60			
STANDARD	DL38-2 10x22	38	2	10x22	
	DL45-2 10x22	45			
	DL60-2 10x22	60			
	DL38-2 15x25	38	2	15x25	
	DL45-2 15x25	45			
	DL60-2 15x25	60			
	DL38-4 15x25	38	4		
	DL45-4 15x25	45			
	DL60-4 15x25	60			
	DL38-2 20x34	38	2	20x34	
	DL45-2 20x34	45			
	DL60-2 20x34	60			
	DL38-4 20x34	38	4		
	DL45-4 20x34	45			
	DL60-4 20x34	60			

DL AND DLM SERIES

Creeping waves transducers

STANDARD OR MINIATURE EDITION

EDITION	REFERENCE	REFRACTED ANGLE in °	FREQUENCY MHz	CRYSTAL SIZE mm	CONNECTOR
CREeping WAVE TRANSDUCERS					
MINIATURE	DLM70-2 5X10	70	2	5x10	Lemo00
	DLM80-2 5x10	80			
	DLM70-4 5x10	70	4		
	DLM80-4 5x10	80			
	DLM70-2 6x13	70	2	6x13	
	DLM80-2 6x13	80			
	DLM70-4 6x13	70	4		
	DLM80-4 6x13	80			
STANDARD	DL70-2 10x12	70	2	10x12	
	DL80-2 10x12	80			
	DL70-2 15x25	70	2	15x25	
	DL80-2 15x25	80			
	DL70-4 15x25	70	4		
	DL80-4 15x25	80			
	DL70-2 20x34	70	2	20x34	
	DL80-2 20x34	80			
	DL70-4 20x34	70	4		
	DL80-4 20x34	80			

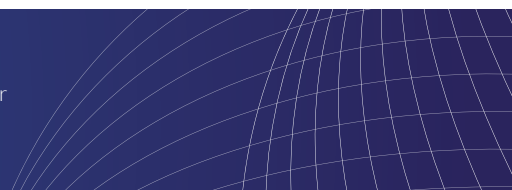
DLM	A	30 mm	
	B	35 mm	
	C	20 mm	
DL	A	44 mm	
	B	55 mm	
	C	31 mm	



DL60-2 15x25



DLM60-2 5x10





CONVENTIONAL TRANSDUCERS

Aeronautics

Railway

Contact

Immersion

TOFD

Specific

IM SERIES

Immersion transducers

Technical specifications

- Single probe
- Longitudinal wave transducer
- High energy piezocomposite element
- High resolution, sensitivity and repeatability
- Adapted to automated control
- Bandwidth $\geq 80\%$
- UHF connectors

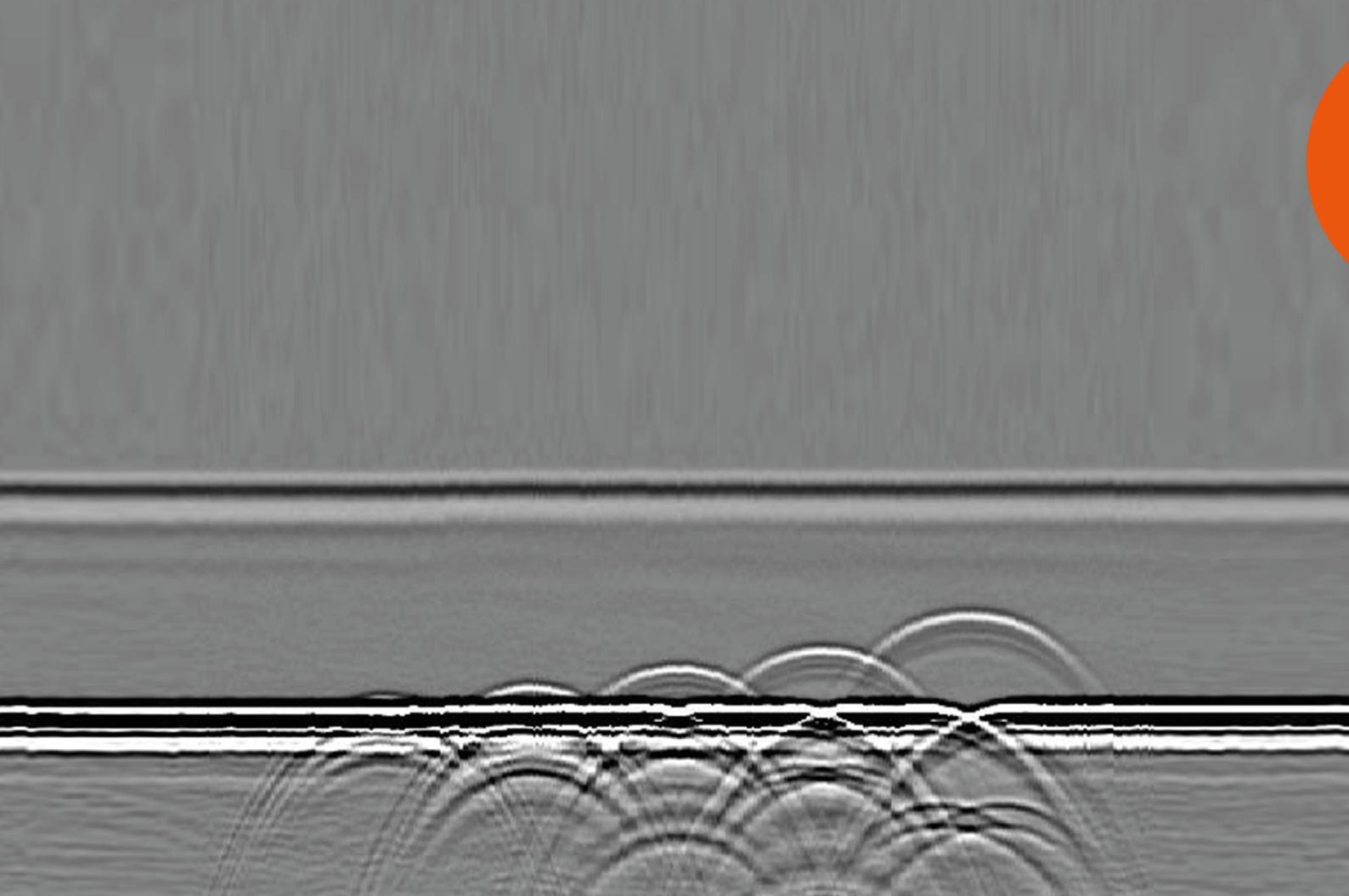
REFERENCE	FREQUENCY MHz	CRYSTAL SIZE mm	CONNECTOR
IM-0.5-13	0.5	Ø13	UHF
IM-0.5-19		Ø19	
IM-0.5-25		Ø25	
IM-0.5-29		Ø29	
IM-0.5-38		Ø38	
IM-1-13	1	Ø13	
IM-1-19		Ø19	
IM-1-25		Ø25	
IM-1-29		Ø29	
IM-1-38		Ø38	
IM-2.25-6	2.25	Ø6	
IM-2.25-10		Ø10	
IM-2.25-13		Ø13	
IM-2.25-19		Ø19	
IM-2.25-25		Ø25	
IM-2.25-29		Ø29	
IM-2.25-38		Ø38	

Main applications

- Immersion control
- Inspection of rough or machined surfaces
- Inspection of a wide range of materials: forged or machined parts, composite etc.

REFERENCE	FREQUENCY MHz	CRYSTAL SIZE mm	CONNECTOR
IM-3.5-6	3.5	Ø6	UHF
IM-3.5-10		Ø10	
IM-3.5-13		Ø13	
IM-3.5-19		Ø19	
IM-3.5-25		Ø25	
IM-5-6	5	Ø6	
IM-5-10		Ø10	
IM-5-13		Ø13	
IM-5-19		Ø19	
IM-5-25		Ø25	
IM-7.5-13	7.5	Ø13	
IM-7.5-19		Ø19	
IM-10-6	10	Ø6	
IM-10-10		Ø10	
IM-10-13		Ø13	
IM-15-6	15	Ø6	





CONVENTIONAL TRANSDUCERS

Aeronautics

Railway

Contact

Immersion

TOFD

Specific

TOFD PROBES

TFDT edition

Technical characteristics

- Longitudinal wave transducers
- High-energy piezoelectric element
- High resolution thanks to a very short time pulse signal
- Lemo00 or Microdot using an upper output connector
- Bandwidth adapted to more than 80% TOFD inspections
- Wedges including 2 water inlets to allow good coupling

Main applications

- Weld inspections compliant to NF EN ISO 10863 (See the recommended b devices according to the nature of the material and to the part to be inspected)
- Probes and wedges compatible with every TOFD system



TFDT M10 & TFDT M12



COMPAS

TOFD KIT

REFERENCE	FREQUENCY MHz	CRYSTAL SIZE mm	THREAD DIAMETER OF THE WEDGE mm	LONGITUDINAL WAVE WEDGES		
TFDT5-3/M10	5	3	Ø 10	WT M10 WTI M10 WT M10 O		
TFDT7.5-3/M10	7.5					
TFDT10-3/M10	10					
TFDT15-3/M10	15					
TFDT5-5/M10	5	5				
TFDT3.5-6/M10	3.5	6				
TFDT5-6/M10	5					
TFDT7.5-6/M10	7.5					
TFDT10-6/M10	10					
TFDT15-6/M10	15					
TFDT4-3/M12	4	3	Ø12	WT M12 WTI M12 WT M12 O		
TFDT5-3/M12	5					
TFDT7.5-3/M12	7.5					
TFDT10-3/M12	10					
TFDT15-3/M12	15					
TFDT10-5/M12	10	5				
TFDT15-5/M12	15	6				
TFDT4-6/M12	4					
TFDT3.5-6/M12	3.5					
TFDT5-6/M12	5					
TFDT7.5-6/M12	7.5					
TFDT10-6/M12	10					
TFDT15-6/M12	15					
TFDT3.5-10/M12	3.5	10				
TFDT5-10/M12	5					
TFDT7.5-10/M12	7.5					
TFDT10-10/M12	10					
TFDT2.25-13/M20	2.25	13			Ø20	WT M20 WTI M20 WT M20 O
TFDT5-13/M20	5					
TFDT2.25-19/M25	2.25	19			Ø25	WT M25 WTI M25 WT M25 O
TFDT3.5-19/M25	3.5					
TFDT5-19/M25	5					

TOFD WEDGES WT SERIES

Technical characteristics

- Wedges suitable for TOFD welding control
- Wedges composed of two water inlets for an optimized coupling with the inspected piece

Main applications

- Compatible with TFDT probes
- Compatible with EKOSCAN scanners and compas

REFERENCE	REFRACTED ANGLE in °	ADAPTABLE PROBES	ADAPTABLE COMPAS
WT38/M10	38	TFDT/M10	COMPASM10
WT45/M10	45		
WT55/M10	55		
WT60/M10	60		
WT70/M10	70		
WT38/M12	38	TFDT/M12	COMPASM12
WT45/M12	45		
WT55/M12	55		
WT60/M12	60		
WT70/M12	70		
WT38/M20	38	TFDT/M20	
WT45/M20	45		
WT55/M20	55		
WT60/M20	60		
WT70/M20	70		
WT38/M25	38	TFDT/M25	
WT45/M25	45		
WT55/M25	55		
WT60/M25	60		
WT70/M25	70		



TOFD WEDGES WTI SERIES

Technical characteristics

- Stainless steel wedges suitable for TOFD welding control
- Wedges composed of two water inlets for an optimized coupling with the inspected piece

Main applications

- Compatible with TFDT probes
- Compatible with EKOSCAN scanners and compas

REFERENCE	REFRACTED ANGLE in °	ADAPTABLE PROBES	ADAPTABLE COMPAS
WTI35/M10	35	TFDT/M10	COMPASM10
WTI38/M10	38		
WTI45/M10	45		
WTI55/M10	55		
WTI60/M10	60		
WTI70/M10	70		
WTI35/M12	35	TFDT/M12	COMPASM12
WTI38/M12	38		
WTI45/M12	45		
WTI55/M12	55		
WTI60/M12	60		
WTI70/M12	70		



TOFD WEDGES WT/O SERIES

Technical characteristics

- Wedges suitable for TOFD welding control
- Wedges composed of two water inlets for an optimized coupling with the inspected piece

Main applications

- Compatible with TFDT probes
- Compatible with all scanners on the market.

REFERENCE	REFRACTED ANGLE in °	ADAPTABLE PROBES
WTI35/M10/O	35	TFDT/M10
WTI38/M10/O	38	
WTI45/M10/O	45	
WTI55/M10/O	55	
WTI60/M10/O	60	
WTI70/M10/O	70	
WTI35/M12/O	35	TFDT/M12
WTI38/M12/O	38	
WTI45/M12/O	45	
WTI55/M12/O	55	
WTI60/M12/O	60	
WTI70/M12/O	70	



TOFD PROBES

F-SCAN edition

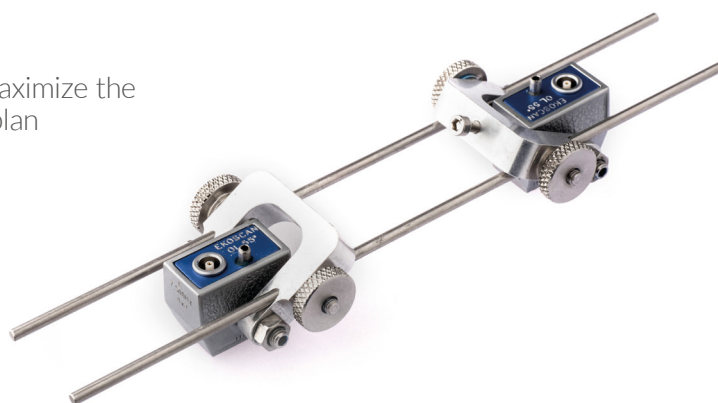


Technical characteristics

- Longitudinal wave transducers
- High-energy piezoelectric element
- High resolution due to a very short time pulse signal
- Bandwidth adapted to more than 80% TOFD inspections
- Welds thicker than 6 mm
- Wear resistant wedges
- Ceramic size is defined in order to maximize the beam aperture within the inspection plan

Main applications

Weld inspections compliant to NF EN ISO 10863 (See recommended devices according to the nature of the material and to the part to be inspected)



REFERENCE	FREQUENCY MHz	REFRACTED ANGLE in °	CRYSTAL SIZE mm	BANDWIDTH	CONNECTOR
F-SCAN4	4	55	4x8	>80%	Lemo00
F-SCAN5	5				
F-SCAN7.5	7.5				
F-SCAN10	10				





CONVENTIONAL TRANSDUCERS

Aeronautics

Railway

Contact

Immersion

TOFD

Specific

SPECIFIC PROBES

In order to always fit your needs, EKOSCAN can manufacture all types of UT transducers, either conventional or Phased Array.

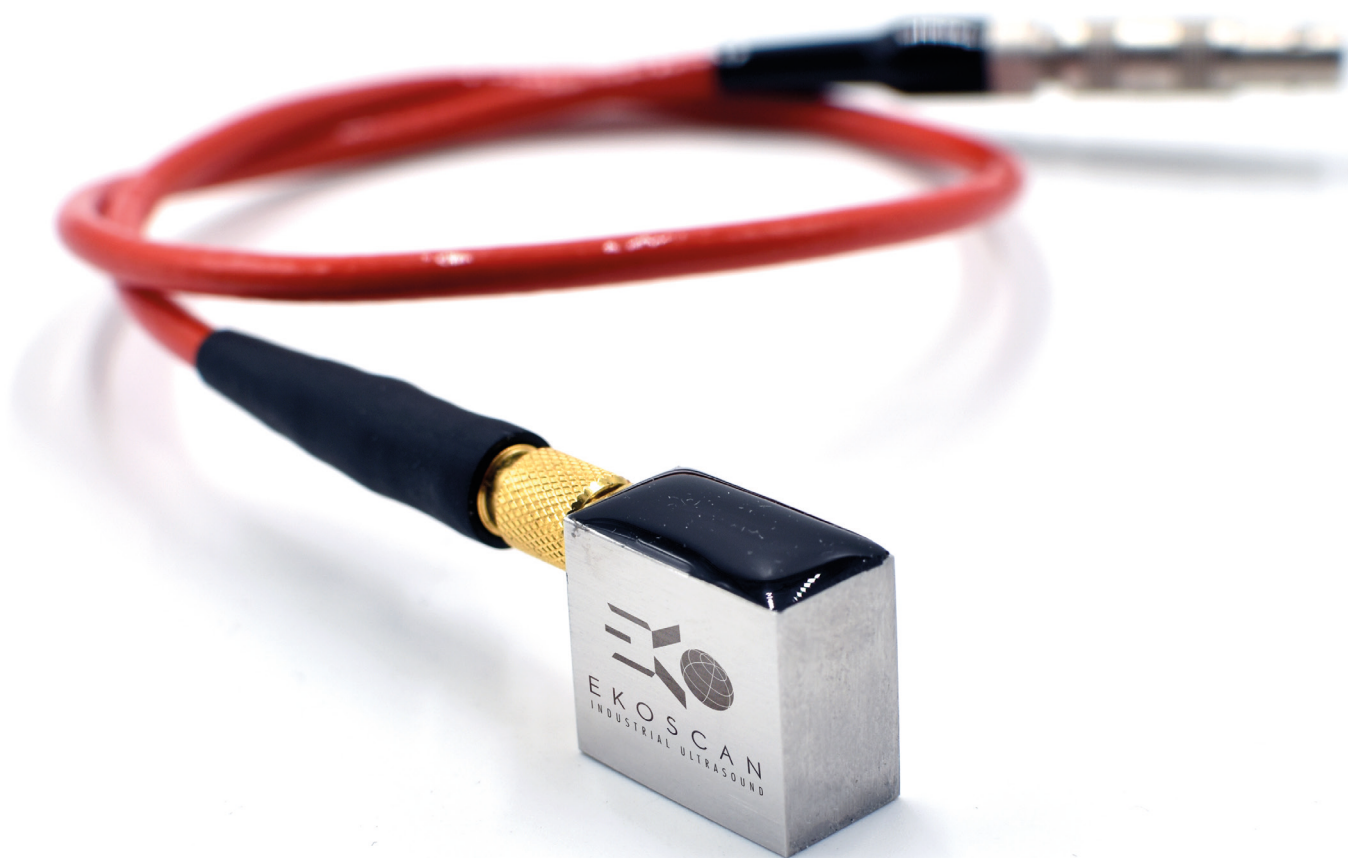
As an ISO 9001: 2015 certified company, EKOSCAN is extremely careful about material selection and manufacturing processes. Our probes guarantee our customers the benefits of the latest innovations regarding piezocomposite, backing, impedance adaptation layer, etc.

Specific probes for hostile environment: high temperature, high pressure, corrosive environment, etc.

Specific probes designed to fit your specific application: optimization of every parameter to guarantee you the best detection.

All our custom and specific probes are in compliance with EN 12 668-2 standards

You can now customize your Linear Phased Array Probes online. See instructions on page 127





PROBES

EK10-11-12

DLA & DMA

EK FX

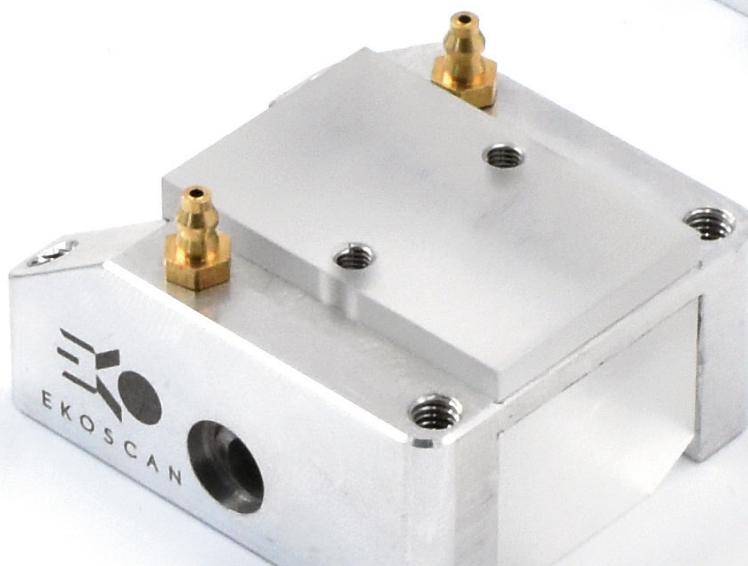
EK EX-NF

HP

Sapphire

EK10-11-12 & IDC

High temperature wedge



EK 10 - 11 - 12 - 13 PROBES

Description

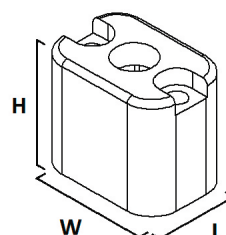
- Probes are designed to have a low profile for area with restricted access
- Acoustic adaptation to water or Rexolite®
- Each probe is delivered with its EN 18563-2 certificate
- IPEX and HYPERTRONIX connectors are available with 3 m cable or any other length upon request

Typical applications

- Manual or automated inspection
- Detection of flaws and sizing



REFERENCE	FREQUENCY MHz	NUMBER OF ELEMENTS	PITCH mm	ELEVATION mm	EXTERNAL DIMENSIONS		
					L	W	H
LINEAR PROBES							
EK10-LA2.25/16	2.25	16	0.6	10	16	23	20
EK10-LA3.5/16	3.5		0.6	10			
EK10-LA5/16	5		0.6	10			
EK10-LA5/32	5	32	0.3	8			
EK10-LA7.5/32	7.5		0.3	7			
EK10-LA10/32	10		0.3	7			
EK11-LA2.25/32	2.25	32	0.6	10	25	23	20
EK11-LA5/32	5		0.6	10			
EK11-LA5/64	5	64	0.3	8			
EK11-LA10/64	10		0.3	7			
EK11-LA15/64	15		0.3	8			
EK12-LA3.5/64	3.5	64	0.6	10	45	23	20
EK12-LA5/64	5		0.6	10			
EK12-LA2.25/64	2.25		0.6	10			
EK12-LA7.5/64	7.5		0.5	9			
EK12-LA10/64	10		0.6	7			
EK13-LA5/128	5		128	0.6				10	82
MATRIX PROBES							
EK10-M10/64	10	64	0.8	1.3	16	23	20
EK11-M5/64	5		1.4	0.35	25		
EK11-M7.5/64	7.5		1.3	1.8			
EK11-M10/64	10		0.35	7.5			



DMA & DLA PROBES

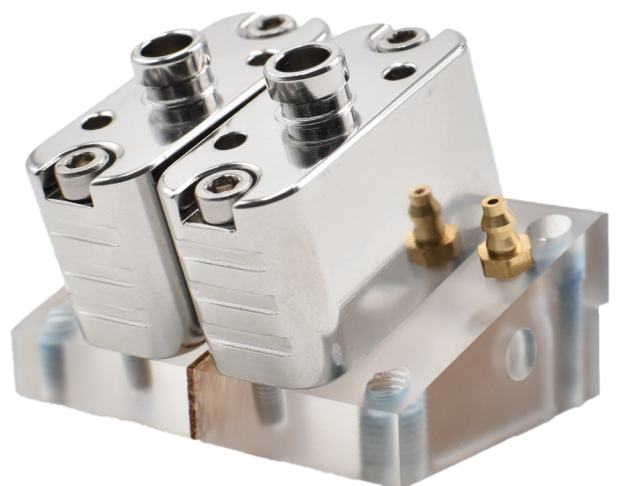
Description

- Dual Matrix Array Probes for beam steering in 2 directions
- Each probe is delivered with its EN 18563-2 certificate

Typical applications

- High thickness weld inspection
- Austenitic weld inspection

REFERENCE	TYPE	FREQUENCY MHz	NUMBER OF ELEMENTS	PITCH mm	ELEVATION mm	EXTERNAL DIMENSIONS		
						L	W	H
DUAL MATRIX ARRAY (DMA) PROBES								
EK17-DMA1.5/56	DMA	1.5	2 x (7x4)	2.7	3	16	34.7	20
EK17-DMA2.25/56		2.25						
EK17-DMA4/56		4						
EK27-DMA4/64		4	2 x (16x2)	1		29	10	
EK27-DMA7.5/64		7.5						
DUAL LINEAR ARRAY (DLA) PROBES								
EK28-DLA2.25/64	DLA	2.25	2 x 32	1	5	44	12	20
EK28-DLA4/64		4						
EK28-DLA7.5/64		7.5						
EK280-DLA5/128		5	2 x 64			78		
EK280-DLA7.5/128		7.5						



EK FX PROBES

Ekoflex

Description

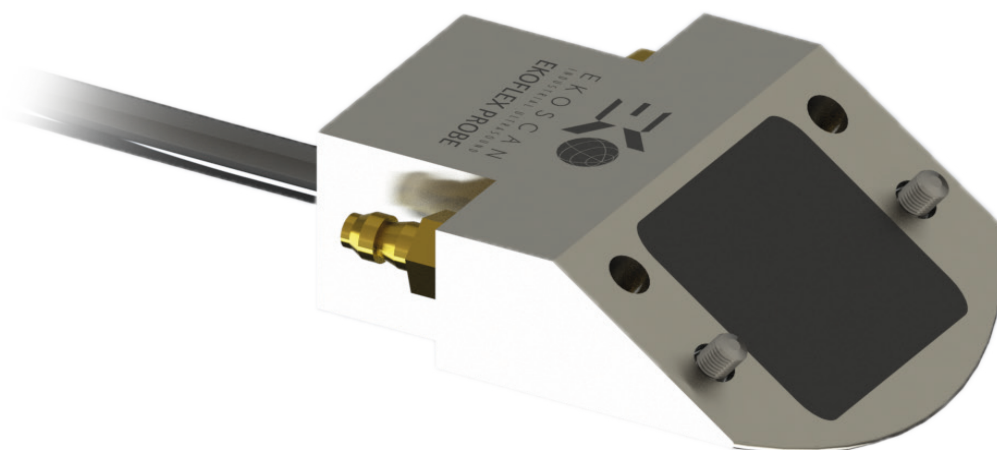
- Miniature edition
- Low profile probes
- Shaped active elements for low thickness inspection
- Each probe is delivered with its EN 18563-2 certificate
- Design for EKOFLEX scanner use

Typical applications

- Small piping/tube inspection
- Low thickness weld



REFERENCE	TYPE	FREQUENCY MHz	NUMBER OF ELEMENTS	PITCH mm	ELEVATION mm	EXTERNAL DIMENSIONS		
						L	W	H
EKOFLEX PROBES								
EKFX-LA5/16	Linear Array with 35mm curved shaping in elevation direction	5	16	0.5	10	scanner compatible design EKOFLEX		
EKFX-LA7.5/16		7.5						
EKFX-LA7.5/32		10	32	0.25				
EKFX-LA10/32								



EK EX-NF PIPE PROBES

Low Frequency and Nearfield Probes (NF)

Description

- Large aperture probes
- Highly damped probes
- Each probe is delivered with its EN 18563-2 certificate

Typical applications

- Corrosion mapping
- Composite inspection
- C-Scan



REFERENCE	TYPE	FREQUENCY MHz	NUMBER OF ELEMENTS	PITCH mm	ELEVATION mm	EXTERNAL DIMENSIONS		
						L	W	H
LOW FREQUENCY AND NEARFIELD (NF) PROBES								
EK EX-LA1/60	Linear nearfield	1	60	1.4	22	94	38	50
EK EX-LA15/64		15	64	0.3	6	25	23	20
EKNF1-3.5/64		3.5		1	7	66	19	25
EKNF1-5/64		5	130					
EKNF3-5/128		128						

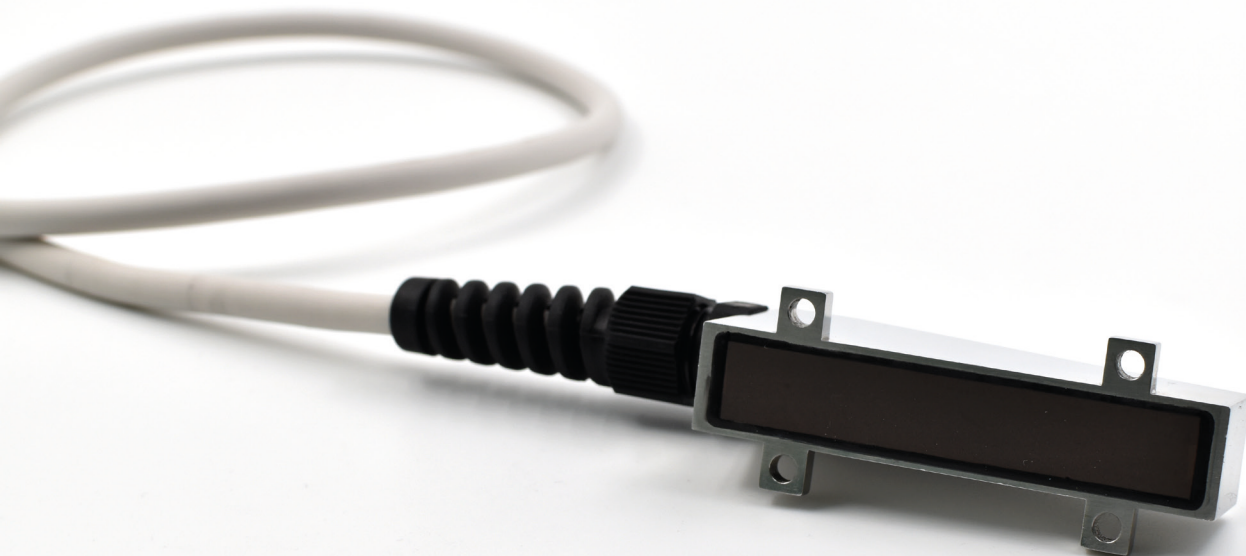
Description

- Large aperture probes
- Each probe is delivered with its EN 18563-2 certificate

Typical applications

- Pipe and tube inspection
- Weld inspection
- C-Scan

REFERENCE	TYPE	FREQUENCY MHz	NUMBER OF ELEMENTS	PITCH mm	ELEVATION mm	EXTERNAL DIMENSIONS		
						L	W	H
EKPIPE-2.25/60	Linear	2,25	60	1	10	68	26	30
EKPIPE-5/60		5						
EKPIPE-7.5/60		7.5						
EKPIPE-5/64		5	64	0.9				



HIGH PRESSURE PROBES

EKHP probes

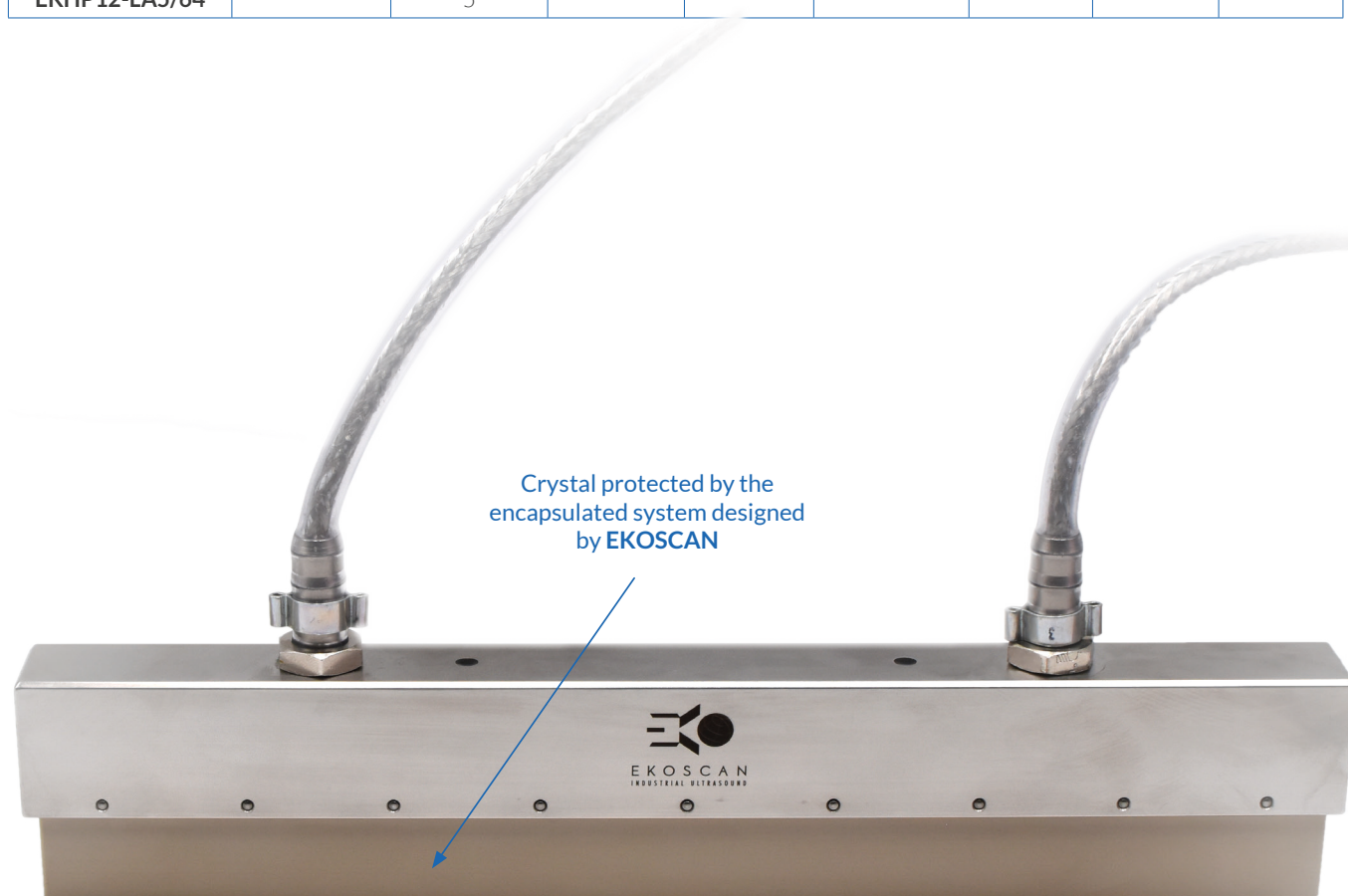
Description

EKOSCAN proudly presents its new high pressure phased-array probe range: EKHP PROBES. By encapsulating box technics, EKOSCAN succeeds in developing a High Pressure Phased-Array Probe that can operate under 2000 m depth.

Typical applications

- Corrosion and weld submarine inspections

REFERENCE	TYPE	FREQUENCY MHz	NUMBER OF ELEMENTS	PITCH mm	ELEVATION mm	EXTERNAL DIMENSIONS		
						L	W	H
EK HP 12 PROBES								
EKHP12-LA2.25/64	HP PROBE	2.25	64	0.6	10	56	24	50
EKHP12-LA3.5/64		3.5						
EKHP12-LA5/64		5						



SAPPHIRE PROBES

New generation Phased Array probes without wedge

EKOSCAN proudly presents its new Phased-Array probe range: SAPPHIRE

After 2 years of R&D, testing and qualification, EKOSCAN finalized the design of this unique kind of probe.

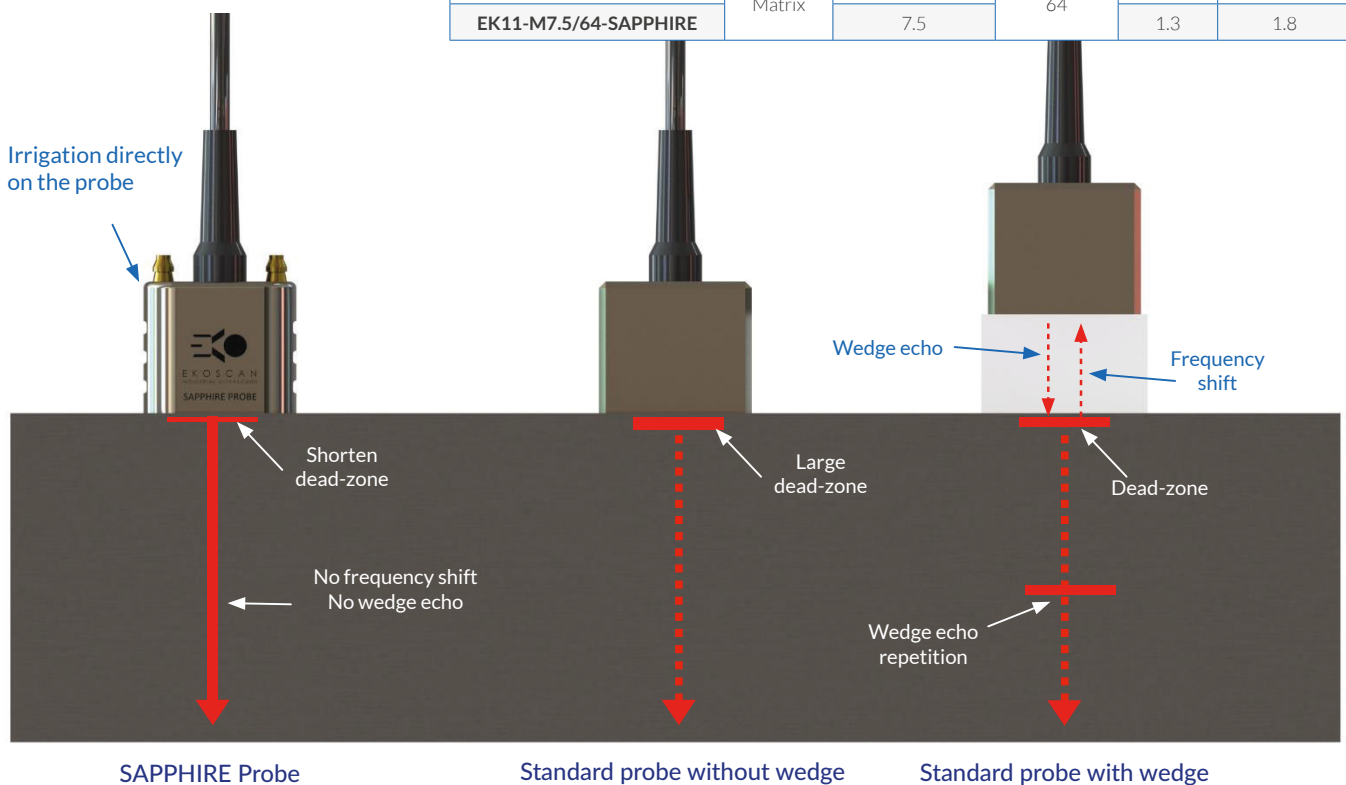
Through a revolutionary piezocomposite crystal technology associated to highly performant and wear resistant hybrid front face, SAPPHIRE probes are the first contact phased-array probes in the world.

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)



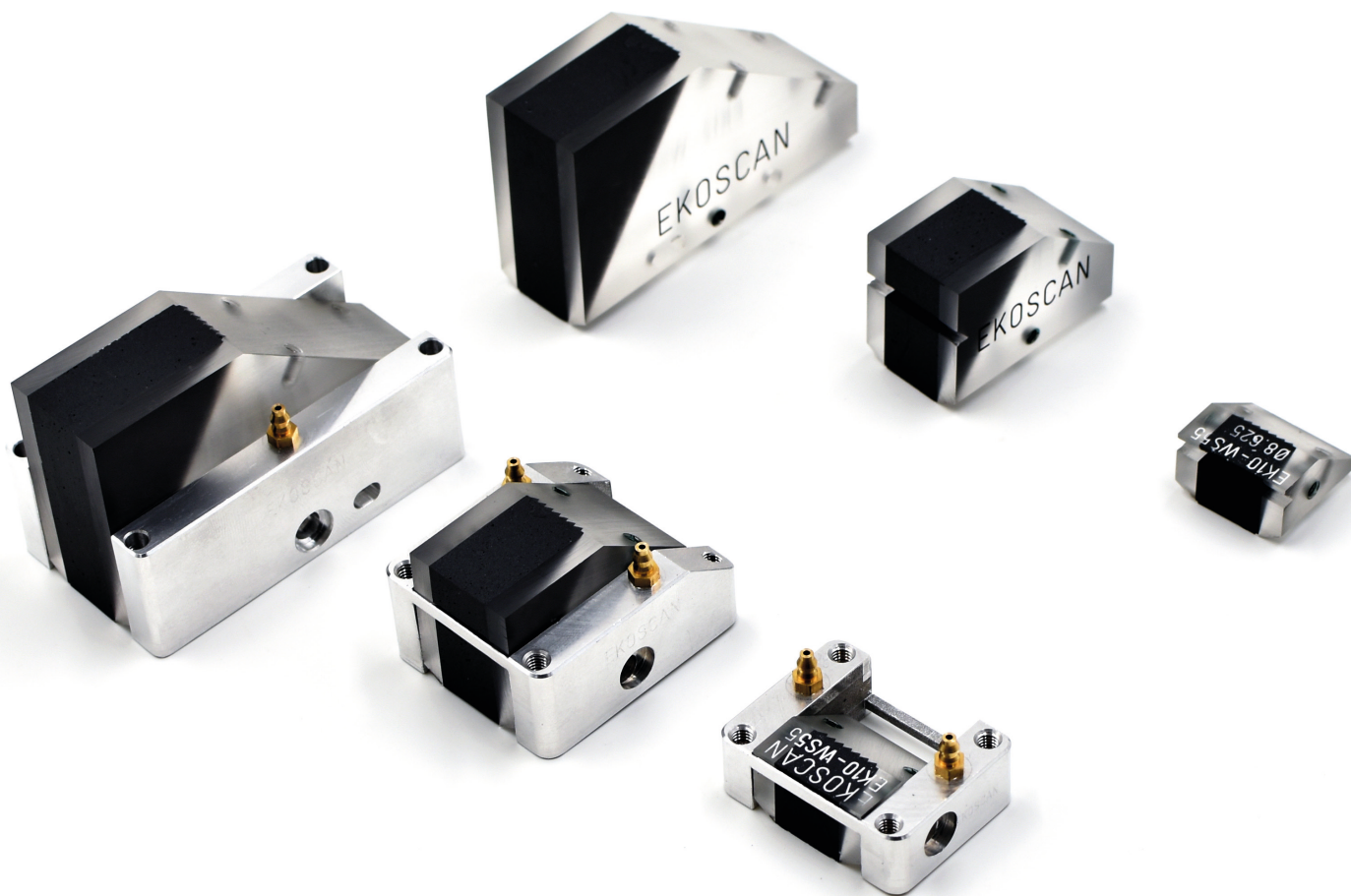
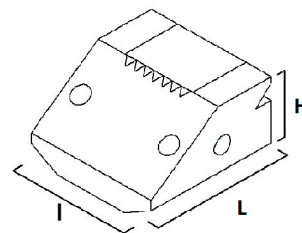
REFERENCE	TYPE	FREQUENCY MHz	NUMBER OF ELEMENTS	PITCH mm	ELEVATION mm
LINEAR PROBES					
EK10-LA3.5/16-SAPPHIRE	Linear	3.5	16	0.6	10
EK10-LA5/16-SAPPHIRE		5		0.6	10
EK10-LA7.5/32-SAPPHIRE		7.5	32	0.3	7
EK11-LA2.25/32-SAPPHIRE		2.25		0.6	10
EK11-LA5/32-SAPPHIRE		5	0.6	10	
EK11-LA5/64-SAPPHIRE		5	64	0.35	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



EK 10 - 11 - 12 - 13 & IDC PROBES

Description

- All our wedges are made of Rexolite® to fit our phased-array probes
- Available for refracted angles of 0°, 55° and 60° in steel
- Wedges are designed to fit a manual inspection or an automated scan
- Our “L” wedges are designed for longitudinal waves and “S” wedges for shear waves



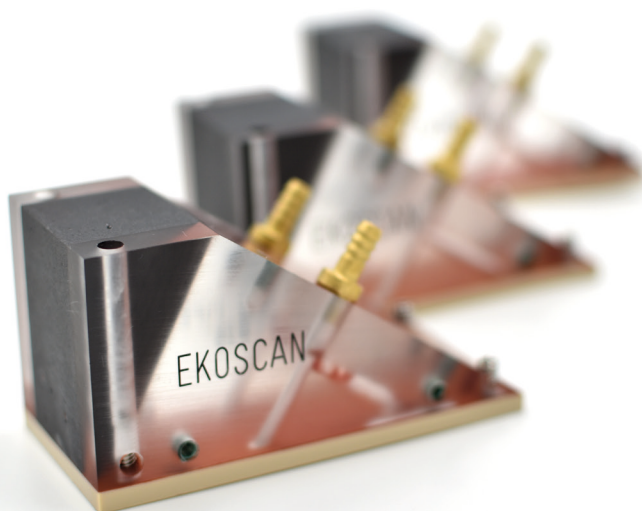
REFERENCE	TYPE L/S	PROBE HOUSING	REFRACTED ANGLE in °	EXTERNAL DIMENSIONS		
				L	W	H
EK 10-11-12 WEDGES						
EK10-WL0	L	EK10	0°	25	23	20
EK10-WS45	S		45°	23	23	14
EK10-WS55	S		55°	23	23	14
EK10-WL60	L		60°	26	23	30
EK11-WL0	L	EK11	0°	35	23	23
EK11-WS45	S		45°	41	23	29
EK11-WS55	S		55°	41	23	29
EK11-WL60	L		60°	43	23	53
EK12-WL0	L	EK12	0°	62	23	20
EK12-WS45	S		45°	73	23	45
EK12-WS55	S		55°	73	23	45
EK12-WL60	L		60°	61	23	53
EK13-WL0	L	EK13	0°	105	24	20
EK13-WL0-I	L		0°	105	43	20
EK13-WS45	S		45°	127	24	70
EK13-WS55	S		55°	127	43	70
EK13-WL60	L		60°	X	X	X
EK13-WS55-I	S		55°	126,5	43	70
PIPE INSPECTION WEDGES						
EKPIPE-WS55	S	EKPIPE	55°	82	38	43
EKPIPE-WS70	S		70°	82	38	43
EKPIPE-WL60	L		60°	X	X	X
EKPIPE-WL80	L		80°	X	X	X
DLA & DMA WEDGES						
EK17-WL0-A0	L	EK17	0°			
EK17-WL0-A3	L		0°			
EK17-WL0-A5	L		0°			
EK17-WL60-A3	L		60°			
EK17-WL60-A5	L		60°			
EK17-WL80-A3	L		80°			
EK17-WL80-A5	L		80°			
EK27-WL0-A0	L	EK27	0°			
EK27-WL0-A3	L		0°			
EK27-WL0-A5	L		0°			
EK27-WL60-A3	L		60°			
EK27-WL60-A5	L		60°			
EK27-WL80-A3	L		80°			
EK27-WL80-A5	L		80°			
EK28-WL0-1	L	EK28	0°	44	37	9
EK28-WL0-3	L		0°	44	37	9
EK280-WL0-1	L	EK280	0°	78	37	8
EK280-WL0-3	L		0°	78	37	8
EKOFLEX WEDGES						
EKFX-WS60	S	EKFX	60°	18	22	12
EKFX-WL60	L	EKFX	60°	22	22	22
WATER SUPPLY						
IDC10	-	EK10	-	-	-	-
IDC11	-	EK11	-	-	-	-
IDC12	-	EK12	-	-	-	-

HIGH TEMPERATURE WEDGES

Typical applications

- Maximum temperature: 150 °C
- Maximum frequency: 7.5 MHz
- Maximum duration for continuous inspection: 12 minutes
- Frequency shift for a 5 MHz probe: 5 MHz -> 4 MHz
- Signal attenuation: -3 dB
- 4 times more resistant than a Rexolite® wedge

REFERENCE	TYPE L/S	PROBE HOUSING	REFRACTED ANGLE in °	EXTERNAL DIMENSIONS		
				L	W	H
EK 10-11-12 WEDGES						
EK10-WL0-HT	L	EK10	0°	25	23	20
EK10-WS55-HT	S		55°	23	23	14
EK10-WL60-HT	L		60°	26	23	30
EK11-WL0-HT	L	EK11	0°	33	40	18
EK11-WS55-HT	S		55°	41	23	29
EK11-WL60-HT	L		60°	43	23	53
EK12-WL0-HT	L	EK12	0°	62	40	20
EK12-WS55-HT	S		55°	73	23	45
EK12-WL60-HT	L		60°	61	23	53
PIPE INSPECTION WEDGES						
EKPIPE-WS55-HT	S	EKPIPE	55°	82	38	43
EKPIPE-WS70-HT	S	EKPIPE	70°	82	38	43
DLA & DMA WEDGES						
EK17-WL60-HT	L	EK17	60°	37	50	20
EK17-WL80-HT	L	EK17	80°	37	50	19





OU001-0291 A-5



EKOSCAN
INDUSTRIAL ULTRASOUND



CALIBRATION BLOCKS

Conventional UT blocks

TOFD blocks

Phased Array blocks

Training blocks

Custom made blocks

"INTERNATIONAL" BLOCKS

Conventional UT blocks

BLOCK V1

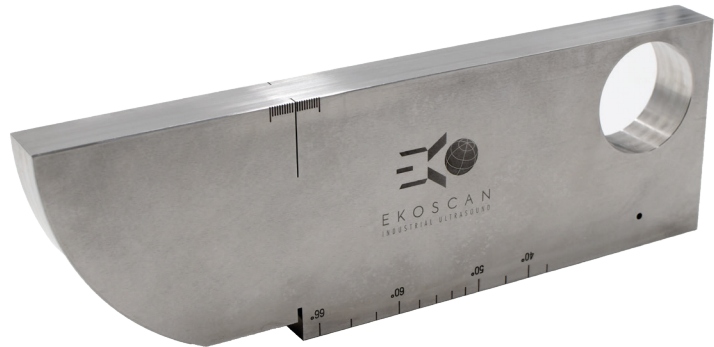
Calibration blocks certified for ISO 2400. Can be used to determine probe exit point and beam angle.

The values are read straight on the block.

Ref:

- CAL1A: carbon steel
- CAL1I: stainless steel
- CAL1AL: aluminium

The block can be supplied with its rotative stand.



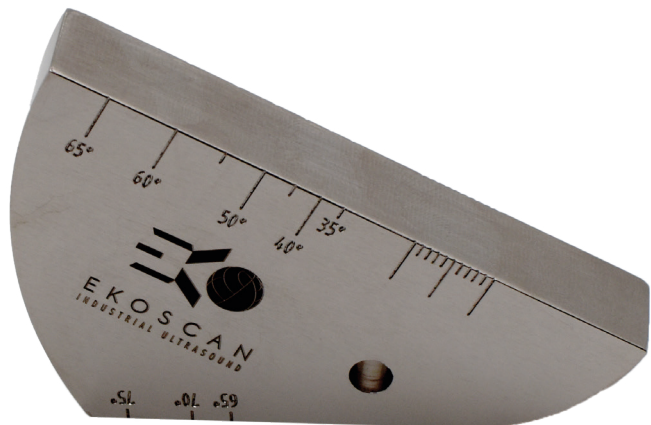
BLOCK V2

Calibration blocks certified for ISO 2400. Can be used to determine probe exit point and beam angle.

The values are read straight on the block.

Ref:

- CAL2A12: Carbon steel, Thickness 12 mm.
- CAL2A20: Carbon steel, Thickness 20 mm.
- CAL2AL12: Aluminium, Thickness 12 mm.
- CAL2AL20: Aluminium, Thickness 20 mm
- CAL2I12: Stainless steel, Thickness 12 mm.
- CAL2I20 : Stainless steel, Thickness 20 mm.



BLOCK V3

Calibration block including 3 radii to calibrate shear and longitudinal wave probes. Can be used to determine probe exit point and beam angle.

The values are read straight on the block.

Ref:

- CAL3 A: V3 in carbon steel



AC BLOCKS

Conventional UT blocks in compliance with US 319-21

Calibration block in conformity with the recommendation IS.US-319.21, document A, Annex C. including a side-drilled hole and a 2x2 mm notch. Every block is supplied with its own material and metrological certificate. A US certificate can also be provided upon request.

AC 0 BLOCK



REFERENCE	SIDE DRILL HOLE DIAMETER mm	MATERIAL	DIMENSIONS Lxlxe
AC0AØ1.5	1.5	STEEL	250x40x15 mm
AC0AØ2	2		
AC0AØ3	3		
AC0IØ1.5	1.5	STAINLESS STEEL	
AC0IØ2	2		
AC2IØ3	3		
AC0ALØ1.5	1.5	ALUMINIUM	
AC0ALØ2	2		
AC0ALØ3	3		

AC 1 BLOCK



REFERENCE	SIDE DRILL HOLE DIAMETER mm	MATERIAL	DIMENSIONS Lxlxe
AC1AØ1.5	1.5	STEEL	250x40x25 mm
AC1AØ2	2		
AC1AØ3	3		
AC1IØ1.5	1.5	STAINLESS STEEL	
AC1IØ2	2		
AC1IØ3	3		
AC1ALØ1.5	1.5	ALUMINIUM	
AC1ALØ2	2		
AC1ALØ3	3		

AC 2 BLOCK



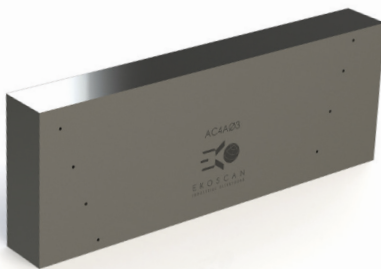
REFERENCE	SIDE DRILL HOLE DIAMETER mm	MATERIAL	DIMENSIONS Lxlxe
AC2AØ1.5	1.5	STEEL	300x40x50 mm
AC2AØ2	2		
AC2AØ3	3		
AC2IØ1.5	1.5	STAINLESS STEEL	
AC2IØ2	2		
AC2IØ3	3		
AC2ALØ1.5	1.5	ALUMINIUM	
AC2ALØ2	2		
AC2ALØ3	3		

AC 3 BLOCK



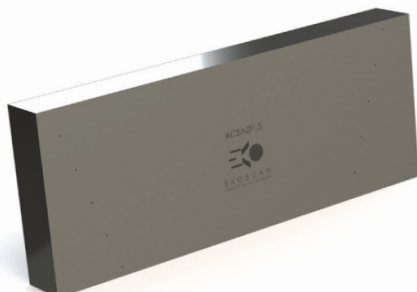
REFERENCE	SIDE DRILL HOLE DIAMETER mm	MATERIAL	DIMENSIONS Lxlxe
AC3AØ1.5	1.5	STEEL	325x50x100 mm
AC3AØ2	2		
AC3AØ3	3		
AC3IØ1.5	1.5	STAINLESS STEEL	
AC3IØ2	2		
AC3IØ3	3		
AC3ALØ1.5	1.5	ALUMINIUM	
AC3ALØ2	2		
AC3ALØ3	3		

AC 4 BLOCK



REFERENCE	SIDE DRILL HOLE DIAMETER mm	MATERIAL	DIMENSIONS Lxlxe
AC4AØ1.5	1.5	STEEL	425x55x150 mm
AC4AØ2	2		
AC4AØ3	3		
AC4IØ1.5	1.5	STAINLESS STEEL	
AC4IØ2	2		
AC4IØ3	3		
AC4ALØ1.5	1.5	ALUMINIUM	
AC4ALØ2	2		
AC4ALØ3	3		

AC 5 BLOCK



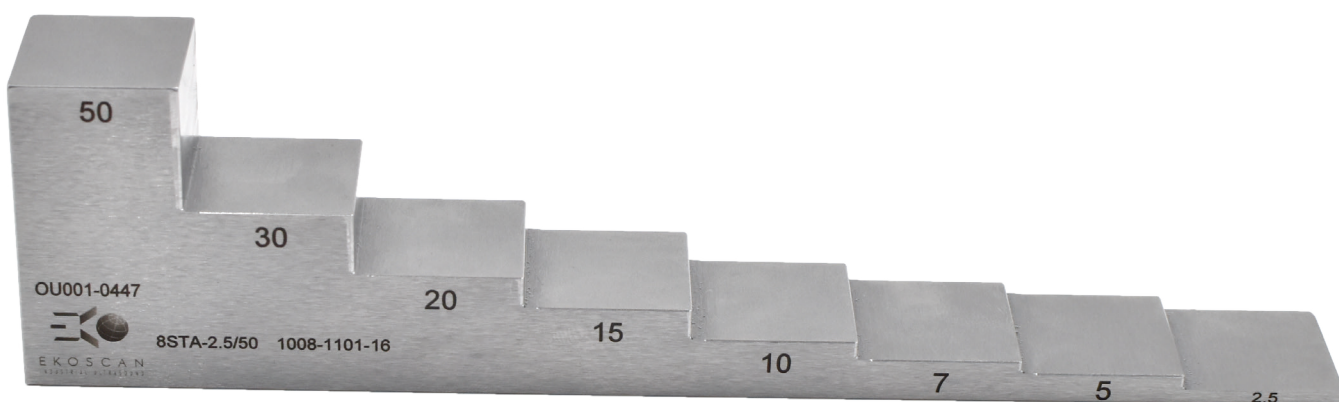
REFERENCE	SIDE DRILL HOLE DIAMETER mm	MATERIAL	DIMENSIONS Lxlxe
AC5AØ1.5	1.5	STEEL	525x60x200 mm
AC5AØ2	2		
AC5AØ3	3		
AC5IØ1.5	1.5	STAINLESS STEEL	
AC5IØ2	2		
AC5IØ3	3		
AC5ALØ1.5	1.5	ALUMINIUM	
AC5ALØ2	2		
AC5ALØ3	3		

STEP BLOCKS

Step blocks for thickness gage calibration

Standard calibration blocks used for thickness gage calibration. Made out of with high quality selected raw material, entirely manufactured in France. Each block is supplied with its own metrological certificate, including 5 different velocity check per step.

REFERENCE	NUMBER OF STEPS	MATERIAL	THICKNESSES mm
5STA-2/10	5	Steel	2 to 10
5STI-2/10		Stainless steel	
5STA-5/25		Steel	5 to 25
5STI-5/25		Stainless steel	
7STA-1/10	7	Steel	1 to 10
7STI-1/10		Stainless steel	
7STA-2/25		Steel	2 to 25
7STI-2/25		Stainless steel	
7STA-5/50		Steel	5 to 50
7STI-5/50		Stainless steel	
8STA-2.5/50	8	Steel	2.5 to 50
8STI-2.5/50		Stainless steel	
8STA-6/65		Steel	6 to 65
8STI-6/65		Stainless steel	
10STA-1/10	10	Steel	1 to 10
10STI-1/10		Stainless steel	
10STA-2.5/25		Steel	2.5 to 25
10STI-2.5/25		Stainless steel	

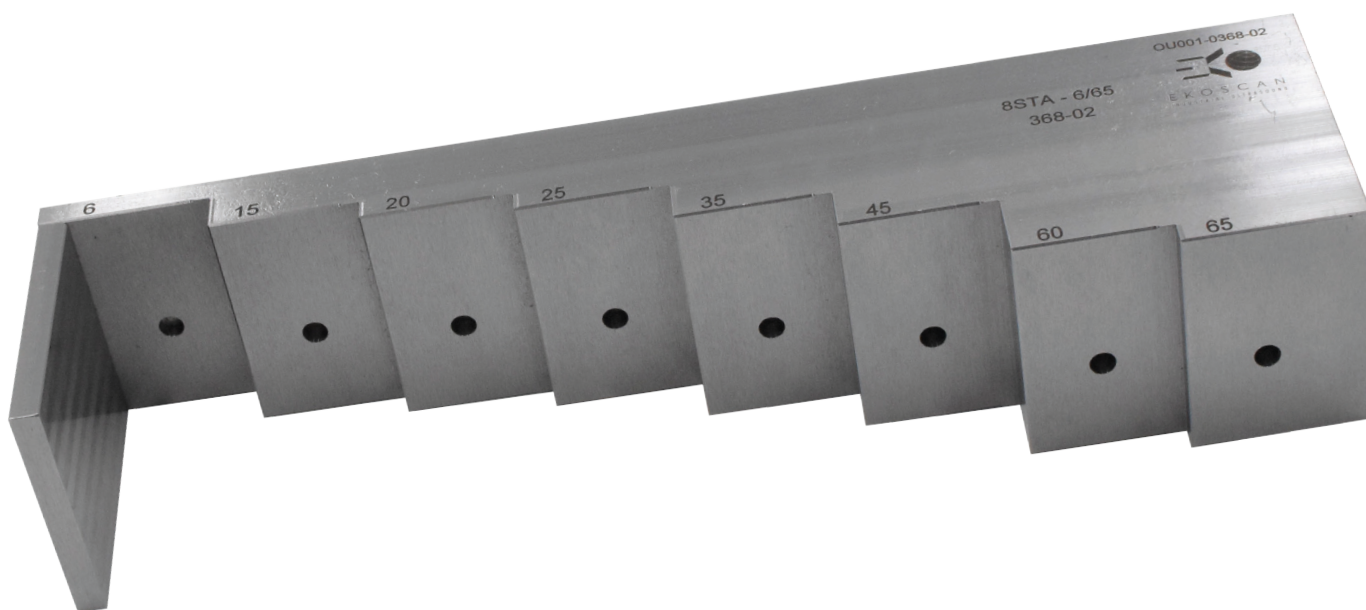


STEP BLOCKS EN 10160

Conventional UT blocks in compliance with EN10160

Standard calibration blocks in conformity with the recommendations of the EN 10160 standard for ultrasonic inspection of flat materials. Each block is supplied with its own certificate of compliance. Engraving can also be supplied upon request.

REFERENCE	FLAT BOTTOM HOLE DIAMETER mm	NUMBER OF STEPS	MATERIAL	THICKNESSES mm
8STFPA-6/65-1.5	1,5	8	Steel	6 to 65
8STFPI-6/65-1.5			Stainless steel	
8STFPA-6/65-2	2		Steel	
8STFPI-6/65-2			Stainless steel	
8STFPA-6/65-3	3		Steel	
8STFPI-6/65-3			Stainless steel	
8STFPA-6/65-5	5		Steel	
8STFPI-6/65-5			Stainless steel	
8STFPA-6/65-6	6		Steel	
8STFPI-6/65-6			Stainless steel	
8STFPA-6/65-8	8		Steel	
8STFPI-6/65-8			Stainless steel	
8STFPA-6/65-11	11		Steel	
8STFPI-6/65-11			Stainless steel	



ASME BLOCKS

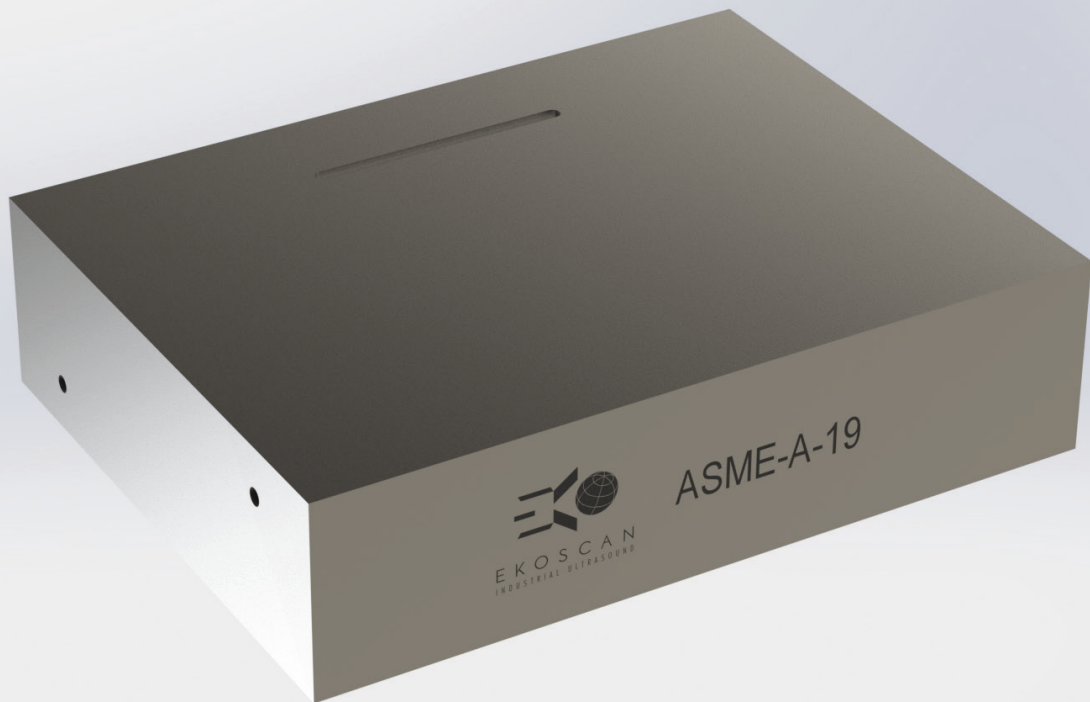
Conventional UT blocks in compliance with ASME V and VIII

Standard calibration blocks in conformity with the recommendations of ASME V and VIII standards for ultrasonic welding inspection. Each block is supplied with its own certificate of compliance. Engraving can also be supplied upon request.

Specification :

ASME Sec V Art. 4 Fig. T-434.2.1

REFERENCE	SIDE DRILLED HOLE DIAMETER mm	NOTCH DEPTH mm	THICKNESS mm
ASME-A-19	2,5	0,38	19
ASME-I-19	2,5	0,38	19
ASME-A-38	3	0,76	38
ASME-I-38	3	0,76	38
ASME-A-75	5	1,5	75
ASME-I-75	5	1,5	75



ASME 19

Description

Calibration block in carbon steel thickness 3/4" including 3 side-drilled holes located at 1/4, 1/2 and 3/4 of the thickness. Calibration block also contains 2 EDM notches in compliance with ASME Sec V Art. 4 Fig. T-434.2.1.

Ref:

- ASME-A-19 : Carbon steel
- ASME-I-19 : Stainless steel 304L



ASME 38

Description

Calibration block in carbon steel thickness 1,5" including 3 side-drilled holes located at 1/4, 1/2 and 3/4 of the thickness. Calibration block also contains 2 EE in compliance with ASME Sec V Art. 4 Fig. T-434.2.1.

Ref:

- ASME-A-38 : Carbon steel
- ASME-I-38 : Stainless steel 304L



ASME 75

Description

Calibration block in carbon steel thickness 3" including 3 side-drilled holes located at 1/4, 1/2 and 3/4 of the thickness. Calibration block also contains 2 EE in compliance with ASME Sec V Art. 4 Fig. T-434.2.1.

Ref:

- ASME-A-75 : Carbon steel
- ASME-I-75 : Stainless steel 304L



PACS BLOCK

Description

Used to check refracted angles and exit points. Allows the calibration of sensitivity and DAC/TCG curves for thicknesses of up to 50 mm.

For the naval industry.

Options

- Carbon steel with anti-corrosion coating
- Stainless steel 304L

Ref:

- CALPACSA



DSC BLOCK (DISTANCE / SENSITIVITY CALIBRATION BLOCK)

Specification

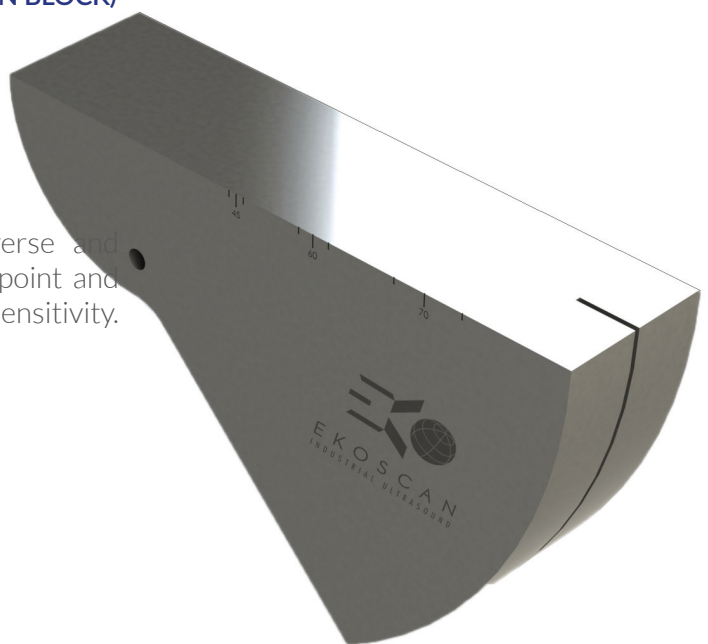
ASTM E164-97 fig. A1.11

Description

Calibration block used for calibration of transverse and longitudinal wave transducers. Verification of exit point and refracted angles (from 45° to 70°) and adjustment in sensitivity. Carbon steel block with anti-corrosion coating.

Ref:

- CALDCSA



DC BLOCK (DISTANCE CALIBRATION BLOCK)

Specification

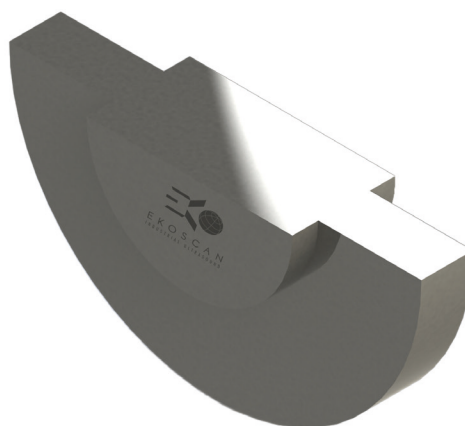
ASTM E164-97 Fig. 1.9

Description

Calibration block used for distance calibration and for verification of the exit point and refracted angles. Carbon steel block with anti-corrosion coating.

Ref:

- CALDCAA



DS BLOCK (SENSITIVITY AND DISTANCE BLOCK)

Specification

AWS D1.1

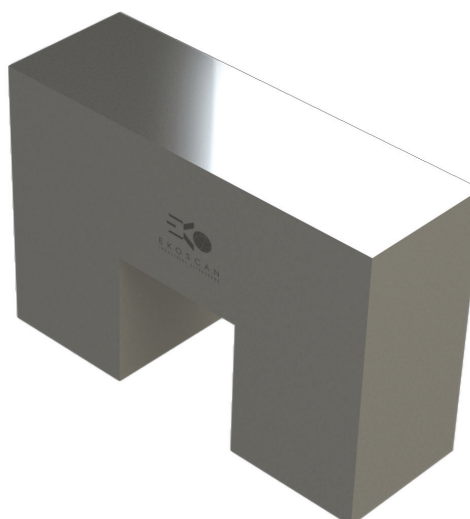
Description

Calibration block used to check horizontal linearity as well as to calibrate in distance and sensitivity with a normal incidence transducer.

Carbon steel block.

Ref:

- CALDSAA



RC BLOCK (CALIBRATION RESOLUTION BLOCK)

Specification

AWS D1.1

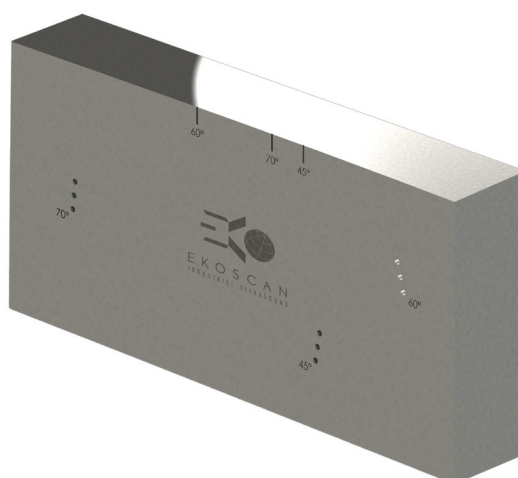
Description

Calibration block used to verify Angle Transducer resolution (45°, 60° and 70°).

Carbon steel block with anti-corrosion coating.

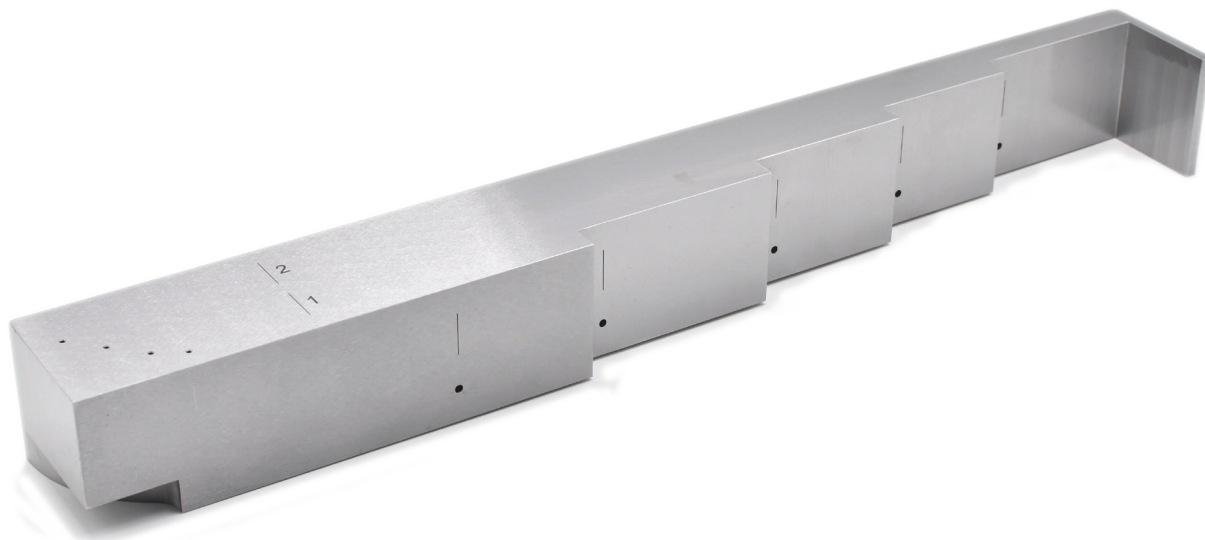
Ref:

- CALRCAA



EKOAL6[®]

Conventional UT, TOFD, Phased Array



The block includes

- 5 x Notches: for sensitivity calibration in TOFD or Phased Array (notches: 10 mm long, 3 mm high, 0.2 mm aperture)
- 5 x Flat Bottom Holes: to evaluate the reflectivity of volumetric flaws for TOFD or to draw a DAC for conventional UT (diameter: Ø3 mm or Ø5 mm)
- 5 x Side-Drilled Holes: to characterize TOFD Lateral Wave or for sensitivity calibration in conventional UT or Phased Array (diameter Ø1.5 mm or Ø3 mm)
- 1 x Radius: for delay and angle calibration (radius 50 mm)

A certificate that includes a metrological report of the block is supplied on delivery (optional moldings of artificial flaws).

length: 475 mm, width: 50 mm, height: 52 mm

Each block is delivered with its material certificate and TOFD B-scan.

Ref:

- TOFDV6A
- TOFDV6I

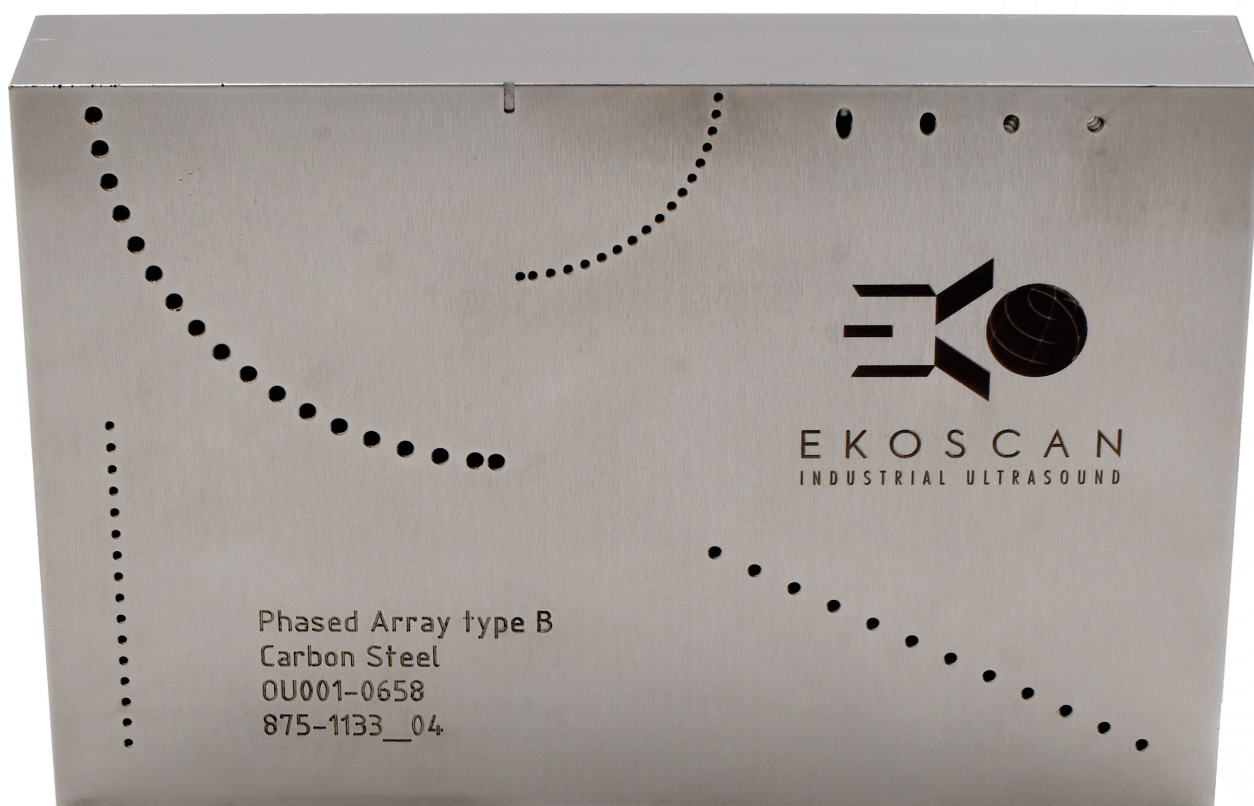


PHASED ARRAY TYPE A & B BLOCKS

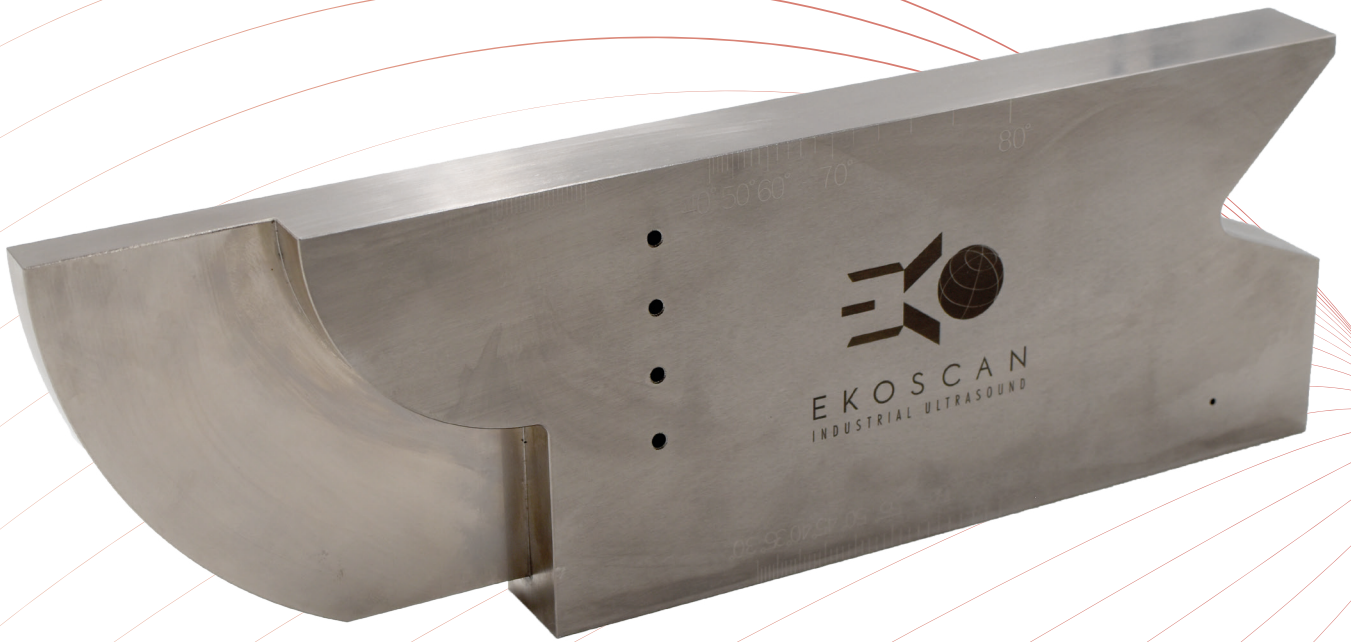
Reference block in carbon steel, stainless or aluminium for Phased Array application.

Control of refraction angles, delay and amplitude correction for parts up to a 50 mm thickness

REFERENCE	MATERIAL	DESCRIPTION
PATYPEAA	Stell	Block in accordance with ASME code (code cases 2541.2557.2558)
PATYPEAI	Stainless steel	
PATYPEAAL	Aluminium	
PATYPEBA	Stell	Block in accordance with ASTM E2491 code
PATYPEBI	Stainless steel	
PATYPEBAL	Aluminium	
PATYPE19675A	Stell	Block in accordance with ISO 19675
PATYPE19675I	Stainless steel	
PATYPE19675AL	Aluminium	



PATYPEBA



PATYPE19675



PATYPEAA

VAROUL VARIAL BLOCK



Used for NDT Ultrasonic training. This block helps to understand the reflectivity of volumetric and non-volumetric defects.

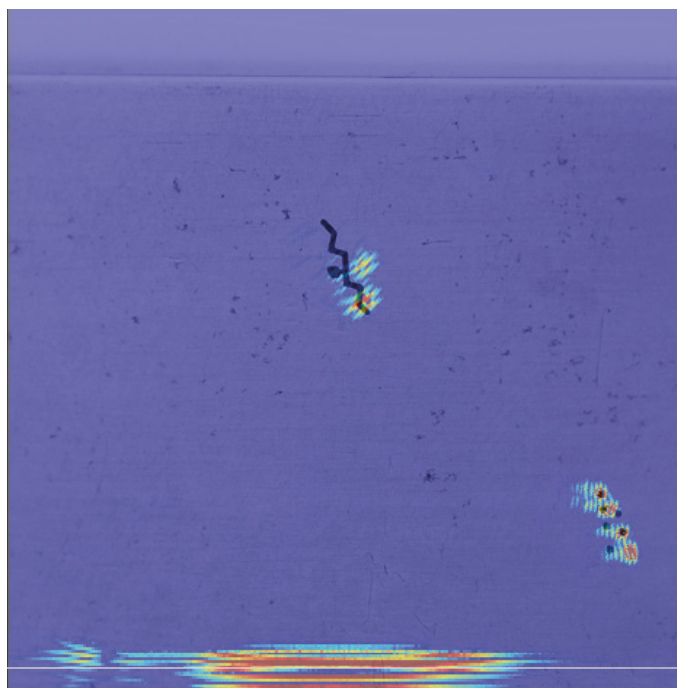
Notches, regular and multifaceted, are oriented at 30°. Waveforms obtained for this type of defects are VARIAL type, i.e., with a discontinued echodynamic.

The side-drilled holes are used to evaluate spatial resolution and the ability to discriminate close indications. Waveforms obtained for this type of defects are the VAROUL type, i.e., a bell-shaped echodynamic.

Block supplied with its material certificate.)

Ref:

- VVA-L



HTHA BLOCKS

Made from P1, SA 516 GR 70 material



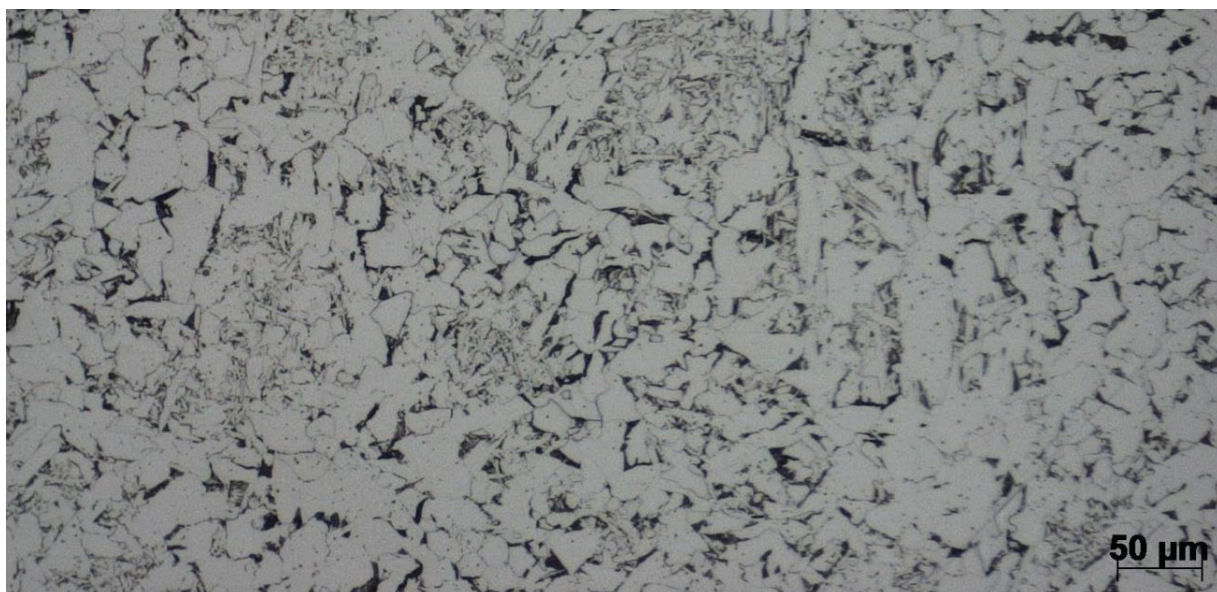
The blocks are first checked to verify the absence of any significant indications according to our internal procedure. An accelerated phenomenon of HTHA micro-cracking is then performed in the thickness of the material by injecting of a combination of hydrogen and carbon to obtain CH₄ molecules.

HTHA cracks up to 20% of the block thickness.

Acoustic results are similar to those obtained for pressure vessels in the petrochemical industry.

Ref:

- CALHTHA-25 (thickness 25 mm)
- CALHTHA-50 (thickness 50 mm)



SPECIFIC BLOCKS

Conventional machining of blocks of maximum size
L 600 x W 400 x H 400 mm and up to 40 kg.



- Working area for wire erosion : L 350 x l 500 x h 250 mm.
- Working area for electro-erosion by die sinking : L 400 x l 300 x h 250 mm.
- Opening notches 0.2 mm +0.05 depth up to 15 mm (under conditions).
- Minimum generator diameters 0.18 mm.
- Material control carried out according to our internal procedure, more restrictive than the control standard for flat products (NF EN 10160) in order to ensure the absence of indications that could disrupt the use of the block.
- Specific block plan validated with the customer before machining.
- Mark check for defect shape.
- Provision of TQR plan (As Realized) on request with actual measured ratings.
- Custom laser engraving (on request).
- Each block is supplied with a control report including: dimensional survey, material certificate, average speed reading in OL and OT as well as the manufacturing plan of the block.
- Our measuring devices are connected COFRAC in accordance with ISO 9001.
- Certificates of conformity kept at our premises for ten years.

CUSTOM MADE BLOCKS

EKOSCAN can manufacture custom blocks according to your needs upon request. As a French ISO 9001 certified manufacturer, we work rigorously on the selection of our raw materials. A preliminary control of the material's ultrasound speed and integrity is performed according to a very strict internal procedure. Our manufacturing and verification tools are also COFRAC certified.

Starting from your technical and functional specifications, EKOSCAN will design and manufacture the custom block that answers your problems.

Contact us for a feasibility study of your block.







FLAW DETECTORS

Ekosmart
Ekoblue
Starmans DIO 1000

EKOSMART

USB ultrasonic board



Presentation

EKOSMART is a portable UT system that comes with an ultrasonic board and its own software. The board can be connected to a PC or a tablet via a USB port. Configuration, data recording and analysis are done on the computer/tablet using regular tools (mouse, keyboard, touchscreen...).

With its intuitive (and pedagogical) graphical user interface, it can be used by beginners and trainees or confirmed and expert users. Every user can rely on its reliability, its characteristics and its advanced features (FFT, TOFD, averaging ...)

The EKOSCAN UT board can carry out a wide range of inspection including welds, composite materials, forged, and cast iron parts, ultrasonic rail tests, material characterization in B-scan mode. Its high bandwidth (1-30 MHz) is adapted for thin and thick component inspections.

An optional 3-MATRYX axe control arm can be connected to carry out C-Scan and to follow the evolution of the inspected flaws in maintenance. EKOSCAN UT board meets the requirements of the NF EN 12668-1 standard (March 2010).

Imaging

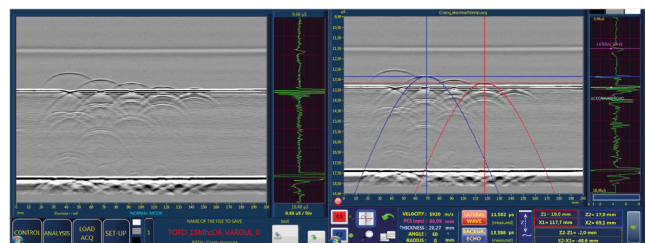
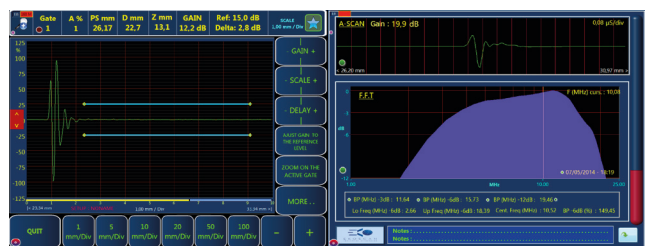
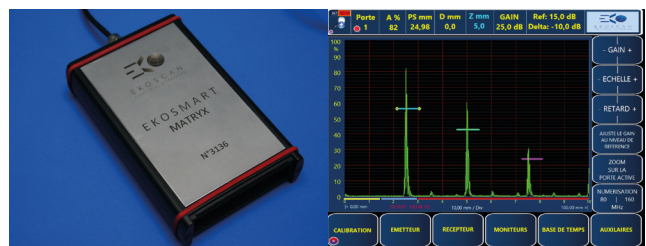
- A-scan
- B-scan (Encoded or scrolling)
- TOFD (Time of Flight Diffraction)
- C-scan 2 encoders (standard) 3 encoders in option

Main features

- DAC and fractioned DAC (-3, -6, and -12 dB), TCG
- FFT to check probes in frequency, bandwidth and sensitivity
- Auto calibration with 2 points (delay sensor, speed, thickness measure)
- Screen freeze
- Dynamic echo to test the probe focal length
- Real-time averaging (2, 4, 8)
- TOFD with hyperbolic cursors
- Linearization of the TOFD lateral wave
- Visual representation of half skip and full skip in weld inspection
- Saving and loading of settings

Technical specifications

- Square emission (250V max)
- Emission frequency (maximum 33 MHz)
- Pulse Repetition Frequency (PRF) up to 5000Hz
- Digital filters (Bandwidth from 1 to 30 MHz)
- Gain from 0 to 80 dB



Ekosmart system is sold with a certificate meeting the requirements of the EN 12668-1. A rugged computer can be provided in option.

Technical specifications

PUSLER

Pulser	negative square pulser
Fall time	< 15 ns
Pulse Repetition Frequency	from 100 Hz to 5000 Hz, with increments of 100 Hz
Voltage	From 25 V to 250 V (by minimum step of 10 V)
Impulsion width	adjustable from 15 ns (33M Hz) to 1600 ns (0,3 MHz)

RECEIVER

Gain	from 0 dB to 80 dB (by step of 0,1, 1,3 and 6 dB)
Input referred noise	< 80 nV/Hz
Bandwith of receiver	from 0,1 MHz to 30 MHz to -3 dB (5 filters)
Rectification	RF, RF rectified
Amplitude measuring	from 0% to 125% of full screen height
Sampling	160 MHz, 80 MHz, 40 MHz, 20 MHz
Averaged in real time	Off, 2, 4 or 8

CALIBRATION

Automatic calibration	speed propagation, sensor delay
Methods of control	reflection technique, transmission/reception separated
Measure unit	millimeter, microsecond
Range	from 0 to 500 mm
Propagation speed	from 500 m/s to 9000 m/s
Zero offset	from 0 μ to 90 μ
Display delay	from 0 mm to 1088 mm to speed propagation in steel
Refraction angle	from 0° to 90° by increments of 0,1%

GATE

Gates	3 gates for amplitude measuring and in time-of-flight
Gate start	variable on all the calibration displayed
Gate width	variable from the start of gate to the end of calibration displayed
Gate height	variable from 0% to 100% of the full screen height
Alarm	on appearance or disappearance of echoes

MEASURES

Gate (1,2,3)	ultrasonic circuit, time-of-flight, amplitude, distance between probe's front face and defect, defect depth
Measure between reverberation	in standard from gate 1 to gate 2, synchronization of interface gate in option
Curve DAC and TCG	standard
Dots DAC and TCG	dynamic calibration of 80 dB

GENERAL

Dimensions	168 mm x 34 mm x 105 mm
Weight	500 g
Supply	5V DC (USB)
Official languages	english, french
Probes connection	2 bases Lemo00 (coaxial)
Encoders	up to 3 encoders (5V supply)
Encoders connection	base Lemo01 (10 pins)
Output connection US (option)	amplitude of 3 gates (analog signal), alarm of 3 gates (TTL signal), synchronization (TTL signal)

Ref:

- EKOSMART

Ultrasonic Bluetooth

FOR SMARTPHONES AND ANDROID TABLETS



Presentation

Transform your smartphone and your android tablet into a real ultrasonic device.

After 3 years of R&D, EKOSCAN developed the first Bluetooth inspection device.

The probe is connected to EKOBLUE which is Bluetooth connected to your tablet or smartphone, turning it into a real UT Board.

This board meets the requirements of the NF EN 12668-1 (march 2010).

Applications

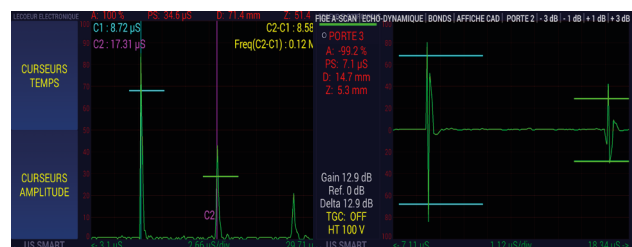
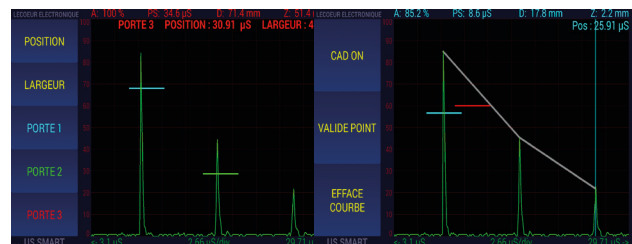
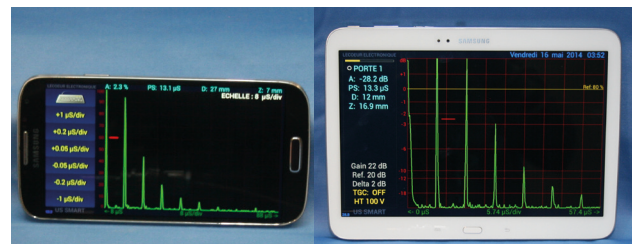
- UT examinations in hostile environments
- Measurement of thickness at high temperature
- Data transmission of measurements up to 60 m away from EKOBLUE.

Main specifications

- A-Scan
- DAC and fractional DAC (-3, -6 and -12 dB), TCG
- A-scan Freeze
- Echo dynamic function to evaluate the focalisation of the probes
- Visual representation of multiple skips for complete inspection of the welds

Main Features:

- Connection to all systems running on Android
- Square type of emission (250 V max)
- Max 20 MHz transmission frequency
- Up to 5,000 Hz PRF (Pulse Repetition Frequency)
- Digital filters (Bandwidth 0.1 to 20 MHz)
- Gain of 0 dB to 80 dB
- Autonomy 8 h + battery backup



EKOBLUE system is sold with a certificate of quality meeting the expectations of the EN 12668-1 norm. Rugged tablet and Samsung Galaxy s6 set up.

Technical specifications

PUSLER

Pulser	negative square pulser
Fall time	< 15 ns
Pulse Repetition Frequency	from 100 Hz to 5000 Hz, with increments of 100 Hz
Voltage	from 10 V to 250 V (by minimum step of 1 V)
Transmission frequency	adjustable from 1 to 20 MHz

RECEIVER

Gain	from 0 dB to 80 dB (by step of 0.1, 1,3 and 6 dB)
Input referred noise	< 80 nV/Hz
Bandwidth of receiver	from 0,1 MHz to 20 MHz to -3 dB (5 filters)
Rectification	RF, RF rectified
Amplitude measuring	from 0% to 100% of full screen height
Sampling	80 MHz

DISPLAY

Methods of control	reflection technique, transmission/reception separated
Measuring unit	millimeter, microsecond
Calibration	0.59 / s to 35.52 /s
Propagation speed	from 100 m/s to 10000 m/s
Display delay	from 0 mm to 2900 m/s to speed propagation in steel
Refraction angle	from 0° to 90° by increments of 0,1°

GATE

Gates measure	3 gates for amplitude measuring and time-of-flight
Gate start	variable on all the calibration displayed
Gate width	variable from the start of gate to the end of calibration displayed
Gate height	variable from 0% to 100% of the full screen height

MEASURES

Gate (1, 2, 3)	ultrasonic circuit, time-of-flight, amplitude, distance between probe's front face and defect, defect depth
Measure between reverberation	gate 1 to gate 2
Curve DAC and TCG	standard
Dots DAC and TCG	dynamic calibration of 80 dB

GENERAL

Dimensions	112 mm x 32 mm x 79 mm
Weight	240 g
Supply	battery or mains supply
Official languages	english, french
Probe connection	2 bases Lemo00 (coaxial)
Connexion	Bluetooth
OS	Android 4.2

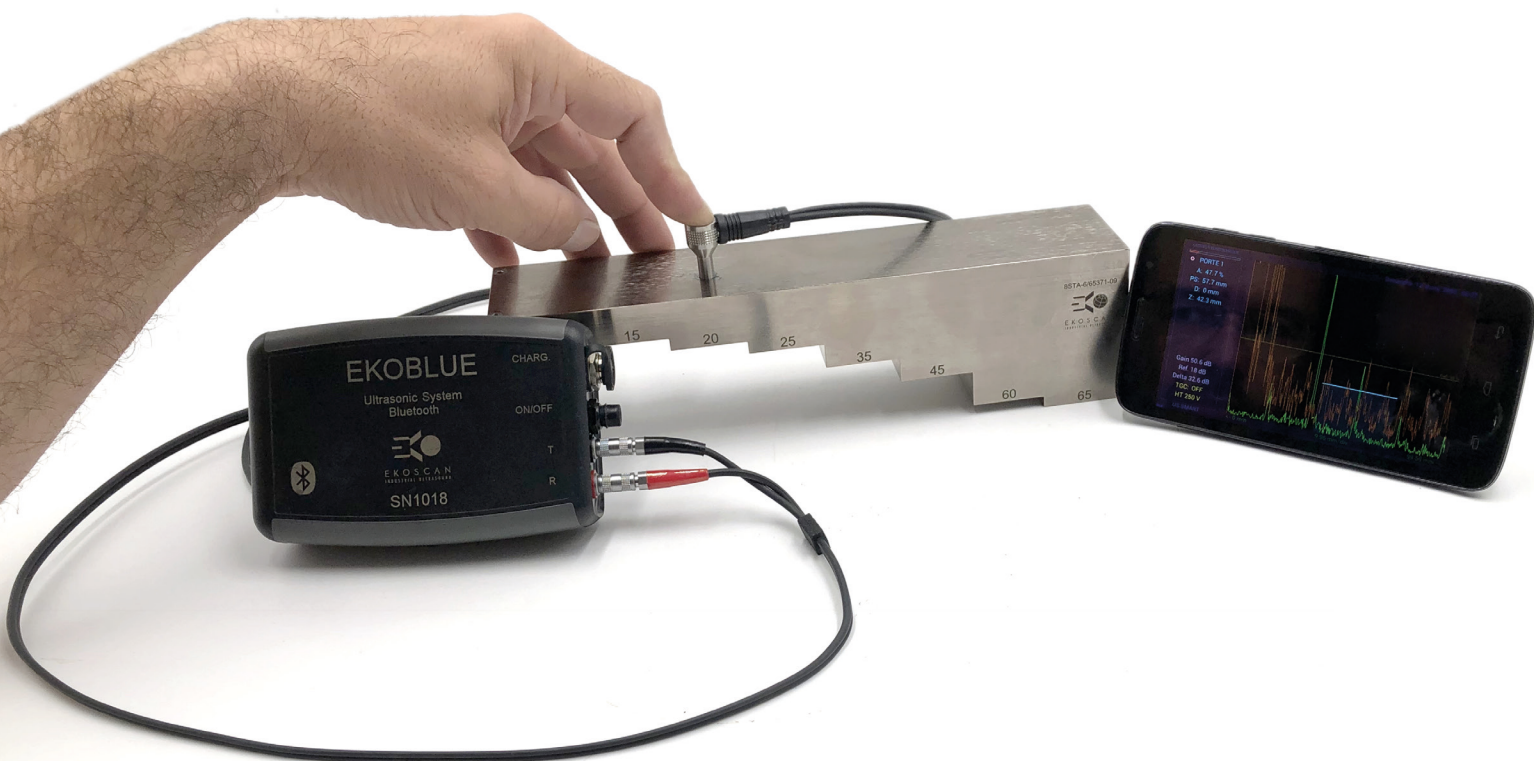
Ref:

- EKOBLUE



EKOBLUE TG

Thickness gage



Presentation

Transform your smartphone and your android tablet into a real thickness gage device. After 3 years of R&D, EKOSCAN developed the first Bluetooth inspection device. The probe is connected to EKOBLEUMEP which is Bluetooth connected to your tablet or smartphone, turning it into a real US thickness gage. This device meets the requirements NF EN 12668-1 (march 2010).

Applications

- Inspection with accessibility difficulties
- Thickness measurement in hostile environments
- Thickness measurement using automated or semi-automated systems

Main specifications

- A-Scan
- Light, compact and wireless
- Great user comfort
- Data transmission of measurements up to 50 m away from EKOBLEU.

Main Features

- Connection to all systems running on Android
- Square type of emission (250 V max)
- Max 20 MHz transmission frequency
- Up to 5,000 Hz PRF (Pulse Repetition Frequency)
- Digital filters (Bandwidth 0.1 to 20 MHz)
- Gain of 0 dB to 80 dB
- Autonomy 8 h + battery backup

Ref:
• EKOBLEU TG

STARMANS DIO 1000SFE

Flaw detector

COMPACT FLAW DETECTOR: STARMANS FEATURED BY EKOSCAN

Well balanced between ergonomics and functionality the DIO1000 is easy to use for your daily applications in workshop, laboratory and outdoors.

New generation of electronic components, fast micro-processors and our long-term experience in manufacturing of ultrasonic instruments enabled us to develop an advanced ultrasonic flaw detector Defectobook® DIO1000 with the best parameters and functions.

Technical specifications

- LCD screen 1024 x 768 pixels
- Light weight 1.28 kg and 34 mm thin
- Sampling rate of 200 MHz
- Direct access to 12 main functions
- Selectable and tunable burst pulser
- EMAT for non-contact testing
- Trigonometric flaw location function
- TOFD B-Scan
- Standard DAC, JIS-DAC, AVG, API, Automatic Thicknessmeter, Auto Gain, Auto Freeze, Automatic Calibration, Curved Surface Measurement



Main applications

- Aerospace – composite testing
- Steel production – large castings, hot and cold rolled steel
- Engineering – welds and joints
- Railway – track junctions in manganese steel
- Energy – austenitic welds, drive shafts
- Pipe inspection
- Crack detection and sizing



Ref:

- DIO1000SFE

GENERAL

Display	Color TFT sunlight, 1024 pixels (W) X 768 pixels (H)
Display Update Rate	Minimum 60 Hz
Display dimensions	99×130 mm
True Sampling Rate	200 MHz, 12-bit
Operating Temperature	-10 °C to 60 °C
Storage Temperature	-40 °C to 70 °C
Power Requirements	AC Mains: 100-120 V AC, 200-240 V AC, 50-60 Hz
Battery	Built-in and external rechargeable Li-ion battery pack rated at 3.6 V at 16 Ah
Battery Operating Time	10 hours, depending on display brightness
Keypad	Graphic symbols, International
Languages	Selectable in menu, user-defined custom language
Memory	2 – 16 GB
Dimensions	224×188×34 mm
Weight	0.74 Kg without battery + 0.54 kg battery for 10 operating hours
PC Requirements	PC running minimum Microsoft® Windows® Vista®, Microsoft® Windows® XP®, Microsoft Windows 2000®,
Warranty	Two year warranty, battery not included. Optional three year warranty available

INPUT / OUTPUTS

Transducer Cable Connectors	Lemo®
Communications Ports	USB, RS232, Ethernet, Wireless Ethernet (optional), Bluetooth (optional)
B-scan input	Encoder, A, B – pulses, start, TTL 5 V, Encoder supply – switchable 5V
High Speed Parallel and TTL Port	Alarm outputs, trigger in/out control
Analog Output	Selectable voltage output of depth or amplitude data

PULSER

Peak Memory	Pulse repetition rate up to 20 kHz and peak envelope of A-Scan display
Pulser Type	User Selectable: Tunable square wave, negative spike excitation, burst
Pulser Energy	Low (100 V) and Max (400 V)
Damping	50, 57, 200, and 1000 Ohms

RECEIVER

Gain Control	110 dB Max and reference gain, level control in 6 dB, 1 dB, 0.5 dB and 0.1 dB selectable steps 0 % to 80 % of full scale in 1 % increments
Reject	Full Wave, Half Wave Positive or Negative rectified, and RF waveform
Rectification	0.5 MHz to 30 MHz at –3 dB
Receiver Bandwidth	Broadband, Narrowband, or Custom Selectable Low and High Pass Filters – 1 MHz
Filters	2 MHz, 2.25 MHz, 4 MHz, 5 MHz, 10 MHz

CALIBRATION

Auto Transducer Calibration	Automated calibration of transducer, zero offset and/or velocity
Units	metric or microsecond
Material Velocity	From 100 to 15240 m/s in steel
Range	Standard 1 mm to 60,000 mm in steel
Refracted Angle	Fixed settings of 0°, 30°, 45°, 60°, 70°, or variable from 10° to 90° in 0.1° steps for calculations
Test Modes	Pulse Echo, Dual, or Through Transmission

GATES

Gate Monitors	Four independent AW gates controllable over entire sweep range - Floating gate, Interface gate, Measuring gate (relative, absolute, amplitude, time), Back-wall echo attenuator
Alarms	Selectable threshold positive/negative or minimum depth modes

MEASUREMENTS

A-scan memory	40 000 A-scans (up to 200 000 optional) – printscreen PNG, A-scan, setup
B-scan memory	10 km of B-scan, 1 mm resolution
Peak Hold	Freezes Peak Memory echo envelope for recorded waveform comparison with live A-Scan
Auto Gate	Thickness
DAC	Standard, up to 20 points, 111 dB dynamic range (71 dB continual)
TCG	For echo amplitude adjustment and evaluation
Curvature correction	Automatically
Spot weld	Auto Gain echo, Auto Freeze



STARMANS DIO 1000 2CH

2 Channels Flaw Detector

COMPACT FLAW DETECTOR: STARMANS FEATURED BY EKOSCAN

DIO 1000 2 CH with its 1.2kg is the lightest equipment of its kind available in the world. It provides 2 UT channels that can be set-up separately the enable inspections with 2 transducers in parallel. The 2 channel mode enable a display of 2 A-Scan simultaneously on the screen and to perform and display 2 B-Scan at the same time.

Technical specifications

- LCD screen 1024 x 768 pixels
- Light weight 1.28 kg and 34 mm thin
- Sampling rate of 200 MHz
- Direct access to 12 main functions
- 2 independent channels that enable single or dual inspection on each
- Selectable and tunable burst pulser for each channel
- Trigonometric flaw location function
- Standard DAC, JIS-DAC, AVG, API, Automatic Thicknessmeter, Auto Gain, Auto Freeze, Automatic Calibration, Curved Surface Measurement



Main applications

- Aerospace – composite testing
- Steel production – large castings, hot and cold rolled steel
- Engineering – welds and joints
- Railway – track junctions in manganese steel
- Energy – austenitic welds, drive shafts
- Pipe inspection
- Crack detection and sizing



Ref:

- DIO1000 2CH

GENERAL

Display	Color TFT sunlight, 1024 pixels (L) x 768 pixels (H)
Display Update Rate	Minimum 60 Hz
Display dimensions	99×130 mm
True Sampling Rate	200 MHz, 12-bit
Operating Temperature	-10 °C to 60 °C
Storage Temperature	-40 °C to 70 °C
Power Requirements	AC Mains: 100-120 V AC, 200-240 V AC, 50-60 Hz
Battery	Built-in and external rechargeable Li-ion battery pack rated at 3.6 V at 16 Ah
Battery Operating Time	10 hours, depending on display brightness
Keypad	Graphic symbols, International
Languages	Selectable in menu, user-defined custom language
Memory	2 – 16 GB
Dimensions	224×188×34 mm
Weight	0.74 Kg without battery + 0.54 kg battery for 10 working hours
PC Requirements	PC running minimum Microsoft® Windows® Vista®, Microsoft® Windows® XP®, Microsoft Windows 2000®,
Warranty	Two year warranty, battery not included. Optional three year warranty available

INPUT / OUTPUTS

Transducer Cable Connectors	BNC x4
Communication Ports	USB, RS232, Ethernet, Wireless Ethernet (optional), Bluetooth (optional)
B-scan input	Encoder, A, B – pulses, start, TTL 5 V, Encoder supply – switchable 5V
High Speed Parallel and TTL Port	Alarm outputs, trigger in/out control
Analog Output	Selectable voltage output of depth or amplitude data

PULSER

Peak Memory	Pulse repetition rate up to 20 kHz and peak envelope of A-Scan display
Pulser Type	User Selectable: Tunable square wave, negative spike excitation, burst
Pulser Energy	Low (100 V) and Max (400 V)
Damping	50, 57, 200, and 1000 Ohms

RECEIVER

Gain Control	110 dB Max and reference gain, level control in 6 dB, 1 dB, 0.5 dB and 0.1 dB selectable steps 0 % to 80 % of full scale in 1 % increments
Reject	Full Wave, Half Wave Positive or Negative rectified, and RF waveform
Rectification	0.5 MHz to 30 MHz at –3 dB
Receiver Bandwidth	Broadband, Narrowband, or Custom Selectable Low and High Pass Filters – 1 MHz
Filters	2 MHz, 2.25 MHz, 4 MHz, 5 MHz, 10 MHz

CALIBRATION

Auto Transducer Calibration	Automated calibration of transducer, zero offset and/or velocity
Units	metric or microsecond
Material Velocity	From 100 to 15240 m/s in steel
Range	Standard 1 mm to 60,000 mm in steel
Refracted Angle	Fixed settings of 0°, 30°, 45°, 60°, 70°, or variable from 10° to 90° in 0.1° steps for calculations
Test Modes	Pulse Echo, Dual, or Through Transmission

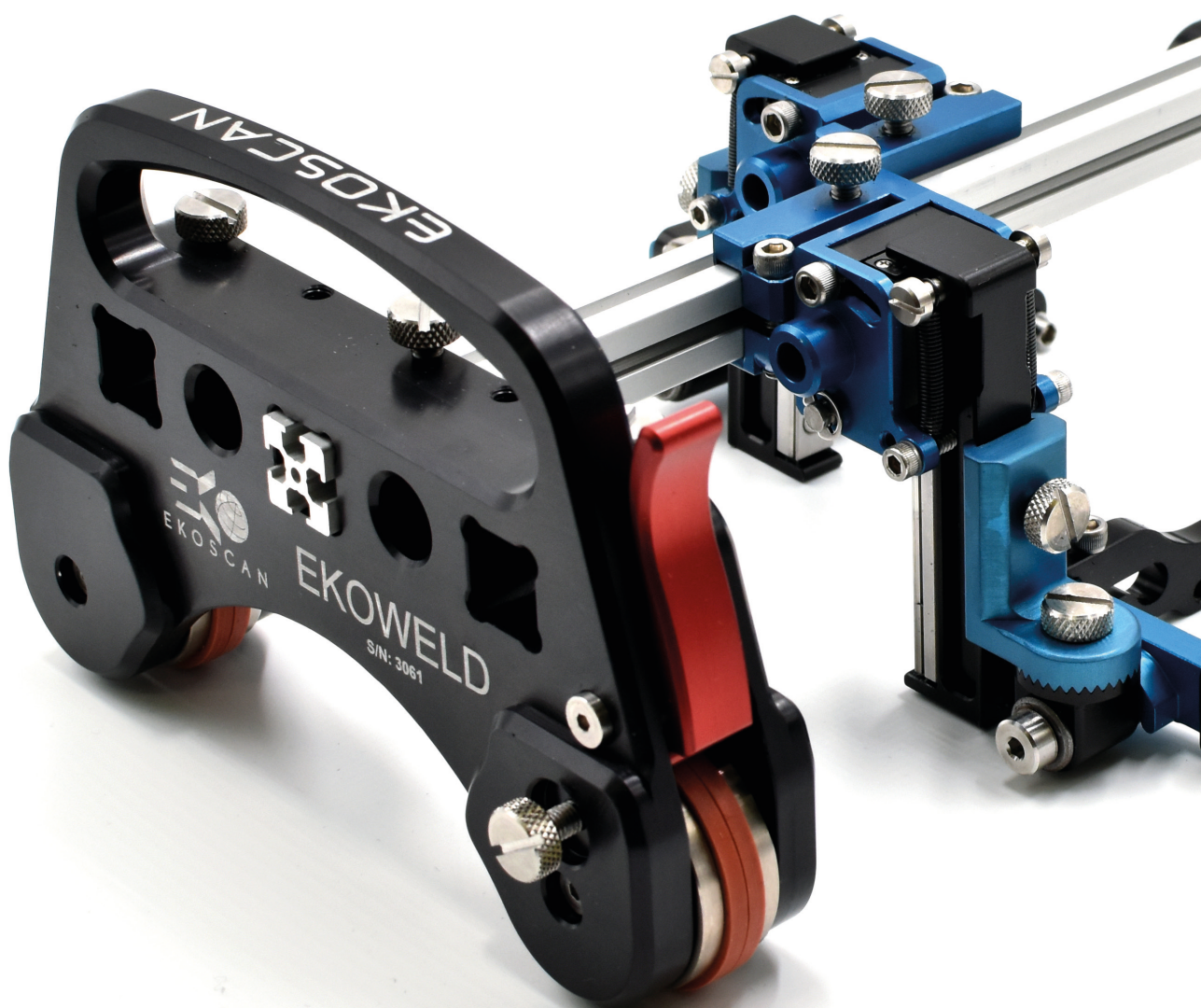
GATES

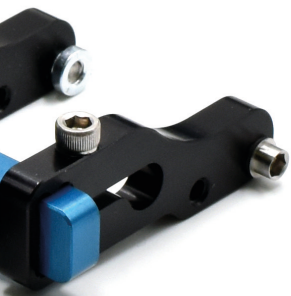
Gate Monitors	Four independent AW gates controllable over entire sweep range - Floating gate, Interface gate, Measuring gate (relative, absolute, amplitude, time), Back-wall echo attenuator
Alarms	Selectable threshold positive/negative or minimum depth modes

MEASUREMENTS

A-scan memory	40 000 A-scans (up to 200 000 optional) – screenshot PNG, A-scan, setup
B-scan memory	10 km of B-scan, 1 mm resolution
Peak Hold	Freezes Peak Memory echo envelope for recorded waveform comparison with live A-Scan
Auto Gate	Thickness
DAC	Standard, up to 20 points, 111 dB dynamic range (71 dB continual)
TCG	For echo amplitude adjustment and evaluation
Curvature correction	Automatically
Spot weld	Auto Gain echo, Auto Freeze







SCANNERS

Matryx RT

Matryx XY

Ekoflex

Ekopipe

Ekoweld

MATRYX RT

3-axis scanner

ROTATING ARM

Presentation

Manual inspection encoded system designed for flat and curved surfaces encoding on 3 axis (C-Scan mapping). Fixed by magnets or suction cups. Ergonomic design.

Applications

- Traceability of ultrasonic testing, sizing defects, characterization, corrosion mapping.
- Maintenance in aeronautics (leeway, wing, fuselage...)
- Ability to inspect vertical surfaces
- Optional Phased Array or multichannel: probe rotating encoding (phased array or multichannel probe)

Main specifications

- 360° rotating
- Compatible with any kind of probe

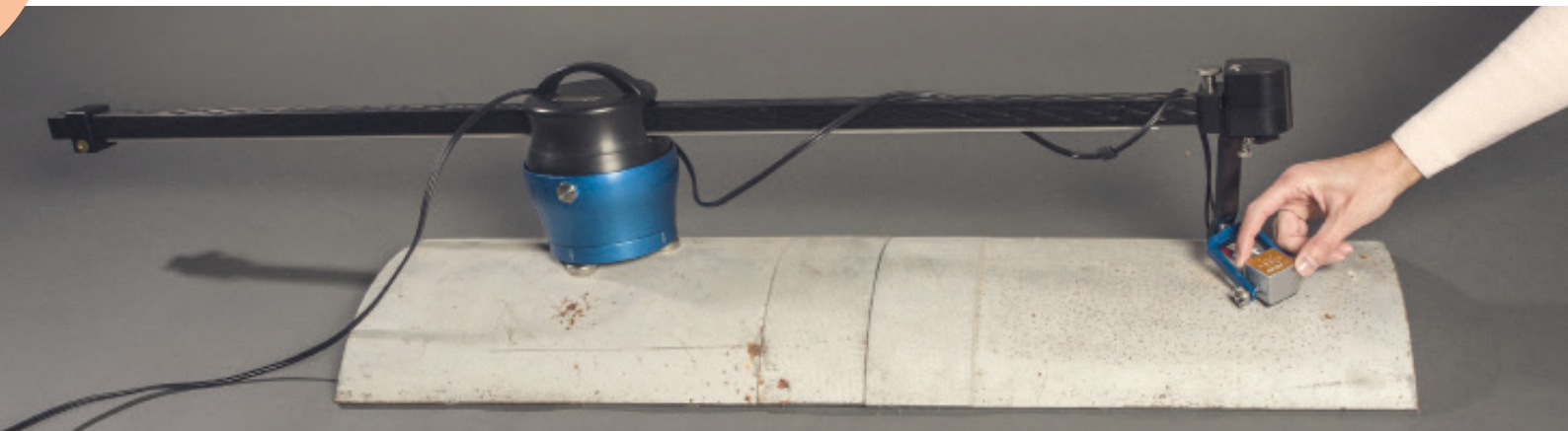
Compatibility

MATRYX RT is compatible with any Phased-Array system



Ref:

- MATRYX RT



MATRYX XY

2-axis scanner

CARTESIAN SCANNER

Presentation

Manual inspection encoded system designed for flat and curved surfaces 6 degrees of freedom. Encoding on 2 axes (C-Scan mapping). The encoding case is sliding on a rail which is fixed on the part to be inspected. Magnets or suction fixing cups are available for non-ferritic materials.

Applications

- Traceability of ultrasonic testing, sizing defects, characterization, corrosion mapping
- Maintenance in aeronautics (leeway, wing, fuselage...)
- Ability to control vertical surfaces
- Adjustable fork to fit any wedge or probe

Main specifications

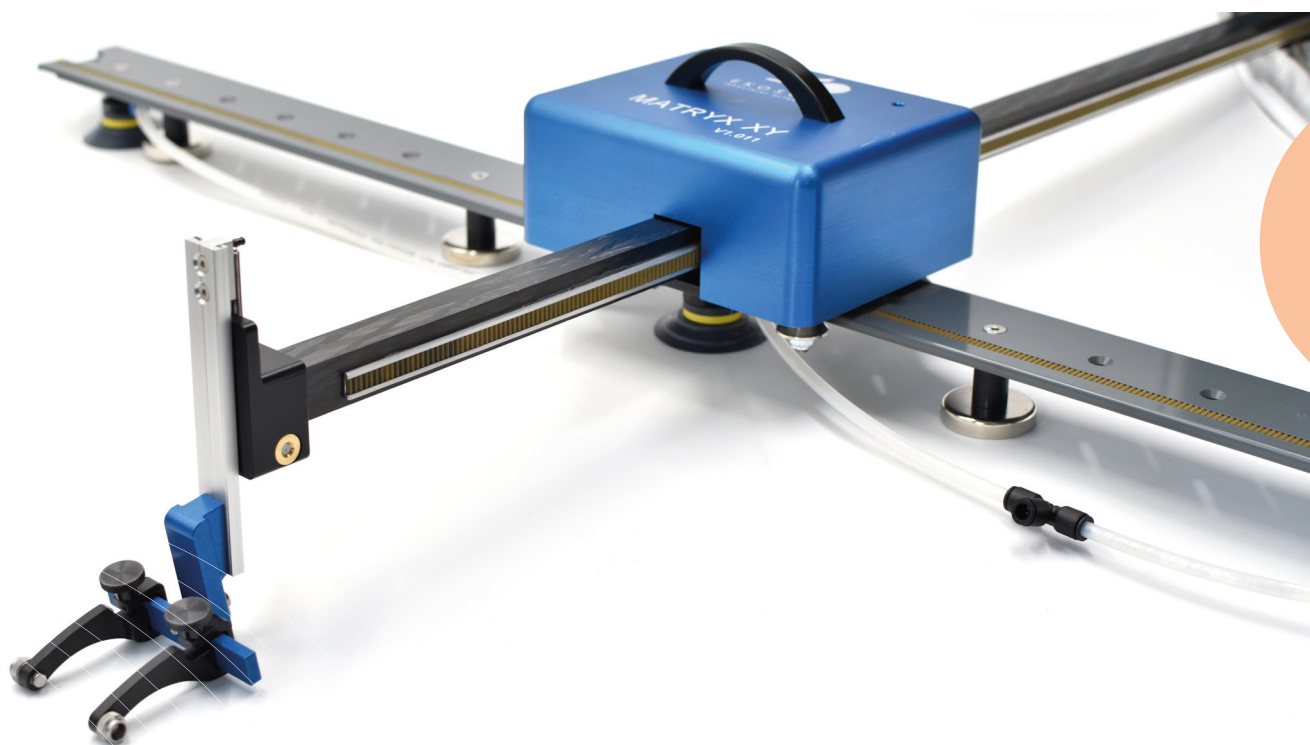
- 360° rotating
- Compatible with any kind of probe

Compatibility

MATRYX XY is compatible with any conventional or Phased Array system.

Ref:

- MATRYX XY



SCANNER EKOSCAN: EKOFLEX SIMPLE

1-axis scanner

SCANNER FOR SMALL TUBES AND PIPES INSPECTION

EKOFLEX scanner was designed to inspect small diameter pipe/tube welds and has a low-profile height to operate between obstructions found for boiler tube inspection.

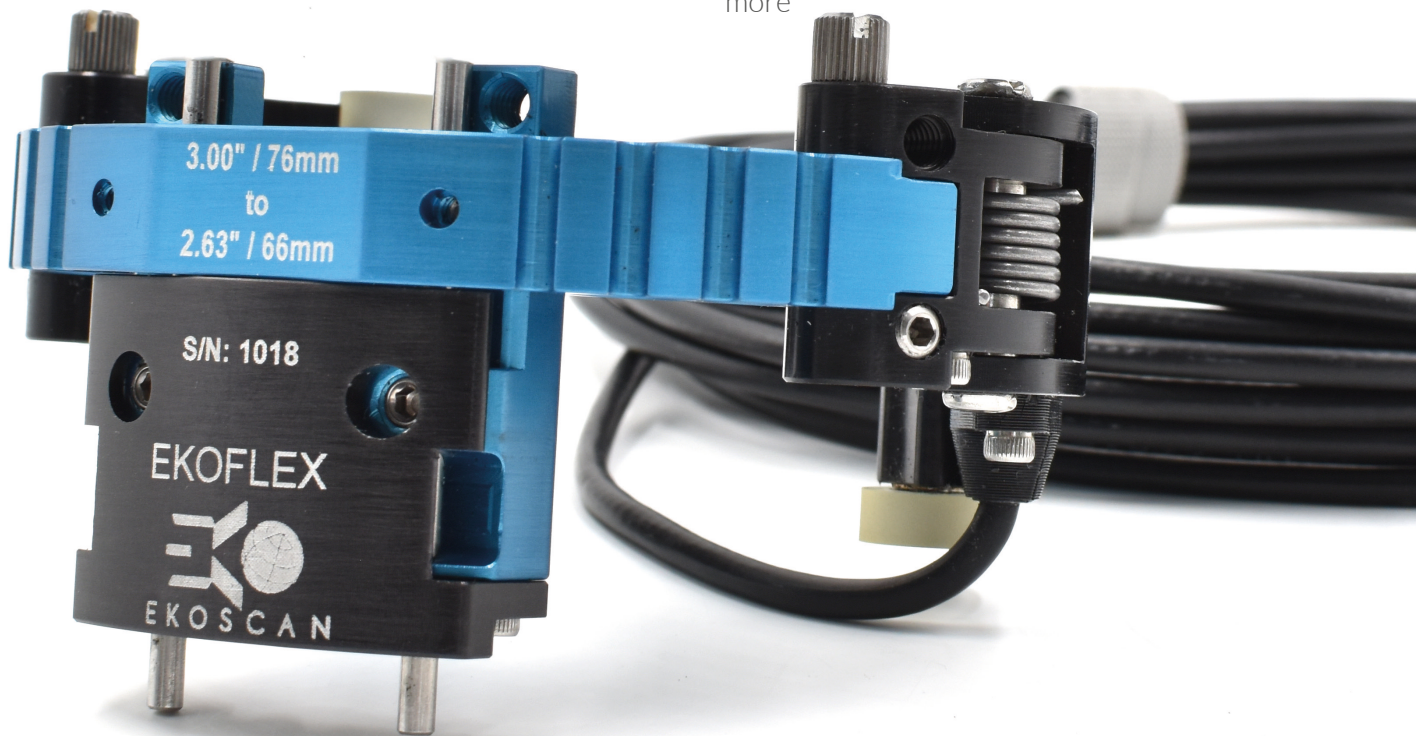
Users can configure the EKOFLEX for a single side phased-array inspection or dual side for complete weld coverage. The encoder is IP68 and is designed to operate in many types of industrial conditions.

Main applications

- Weld inspection on pipes
- Small diameter pipe inspection
- Boiler tube inspection
- Maintenance and manufacturing inspection

Technical specifications

- 10 bands covering a range of pipe from 0.8" (20.3 mm) to 4.5" (114.3 mm)
- Uses EKOSCAN EKOFLEX phased array probes
- Modular design
- Ultra-small size for limited access
- Scans at up to 100 °C
- High resolution encoder (<0.001 inch)
- Urethane wheels to prevent slipping and hold
- Self-adjusting, spring loaded wheel
- Compatible with OmniScan, Zetec, TD Scan, PRAGMA, GE, GEKKO, MANTIS, VEO, and more



Ref:

- EKOFLEX SIMPLE

SCANNER EKOSCAN: EKOFLEX DOUBLE

1-axis scanner

SCANNER FOR SMALL TUBES AND PIPES INSPECTION

EKOFLEX scanner was designed to inspect small diameter pipe/tube welds and has a low profile height to operate between obstructions such as for boiler tube inspection.

Users can configure the EKOFLEX for a single side phased array inspection or dual side for complete weld coverage. The encoder used is IP68 and is designed to operate in many types of industrial conditions.

Main applications

- Weld inspection on pipes
- Small diameter pipe inspection
- Boiler tube inspection
- Maintenance and manufacturing inspection

Technical specifications

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- Urethane wheels to prevent slipping and hold
- Self-adjusting, spring loaded wheel
- Compatible with OmniScan, Zetec, TD Scan, PRAGMA, GE, GEKKO, MANTIS, VEO, and more



Ref:
• EKOFLEX DOUBLE



EKOFLEX kit includes:

PART NAME	DESCRIPTION	QUANTITY
Bands	High grade anodized aluminum parts circling the pipe/tube	x 10
Encoded Truck	IP68 high resolution encoder on its wheel truck	x1
Idler Truck	Spring loaded truck for pipe/tube holding	x1
Probe Clamp	Spring loaded probe holder adapted to EKOFLEX probes	x1
Tool kit	Tool kit to assemble/disassemble the scanner	x1
Spare Parts Kit	Kit of spare screws and parts	x1
HD Travel Case	Waterproof and dust resistant travel case	x1

EKOPIPE

1-axis scanner

SCANNER FOR PIPELINES WELDS

The **EKOPIPE** is the ultimate scanning solution for weld and corrosion inspections for ferrous and non-ferrous piping such as stainless steel and HDPE. Setup is fast and simple as it should be!

The **EKOPIPE** with its patent pending design does not require multiple chain links to hold onto a pipe like other pipe scanners. Its revolutionary adjustable clamp design allows the scanner to adapt to pipe sizes ranging from 4" to 24" with a simple turn of a handle using 3 available arms in just a matter of seconds.

The basic kit comes with 2 probe holders perfect for TOFD or Phased Array inspection, and our high-resolution water proof RME encoder with a detachable cable. The **EKOPIPE** is also designed to hold 6 or more probes and can be used in multiple scanning positions such as center or side mount. The complete kit is ultra-portable and fits into one small carrying case!

The **EKOPIPE**, truly is the smart way to perform pipe inspections.



Ref:

- EKOPIPE

EKOWELD

1-axis scanner

SCANNER FOR LONGITUDINAL AND CIRCULAR WELDS

Design intent

The EKOWELD is a simple solution to performing Phased Array and TOFD. The scanner can scan pipe in a circumferential or axial direction and can hold up to 6 transducers at a time. Configuring the scanner is quick and easy. The EKOWELD has magnetic wheels to prevent slipping and hold the scanner's weight. The scanner has compatible connectors available for most UT systems.

Dimensions and weight

The shipping case containing all components weighs about 21 lbs. The scanner alone weighs just 6.6 lbs.



Ref:
• EKOWELD



ACCESSORIES

Cables

Adapters

Wire encoder

TOFD accessories

UT gel

Profile comb

Pump TOFD

Compas

ACCESSORIES USED IN ULTRASONIC TESTING

Single and double wires

Technical specifications

- Cables for combined emission and reception or distinct emission and reception probes
- Lemo00, Lemo1, Microdot, BNC, UHF, Subvis, standard connections
- Standard length: 2 m
- Standard impedance 50 Ω
- Operating temperature: ambient temperature

SINGLE WIRES	LEMO00	LEMO1	BNC
Lemo00	CBL00-00/2/M	-	-
Lemo01	CBL01-00/2/M	CBL01-01/2/M	-
BNC	CBLBNC-00/2/M	CBL01-BNC/2/M	CBLBNC-BNC/2/M
Microdot	CBL00-MIC/2/M	CBL01-MIC/2/M	CBLBNC-MIC/2/M
UHF	CBL00-UHF/2/M	CBL01-UHF/2/M	CBLBNC-UHF/2/M
Subvis	CBL00-SUB/2/M	CBL01-SUB/2/M	CBLBNC-SUB/2/M



DOUBLE WIRES	LEMO00	LEMO1	BNC
Lemo00	CBL00-00/2/D	-	-
Lemo01	CBL01-00/2/D	CBL01-01/2/D	-
BNC	CBLBNC-00/2/D	CBL01-BNC/2/D	CBLBNC-BNC/2/D
Microdot	CBL00-MIC/2/D	CBL01-MIC/2/D	CBLBNC-MIC/2/D
UHF	CBL00-UHF/2/D	CBL01-UHF/2/D	CBLBNC-UHF/2/D
Subvis	CBL00-SUB/2/D	CBL01-SUB/2/D	CBLBNC-SUB/2/D



For any specific request, please contact us indicating your reference as follows:

CBL"Connection1"- "Connection2" / "length in m" / "D for Dual or M for Mono"

ACCESSORIES USED IN ULTRASONIC TESTING

Adapters



Lemo1M/BNCF ADAPTERS

Adapter station/probes for ultrasonic test. Impedance 50 Ω

Ref:

- ADP01M-BNCF



Lemo1F/BNCM ADAPTERS

Adapter station/probes for ultrasonic test. Impedance 50 Ω

Ref:

- ADP01F-BNCM



Lemo00F/BNCM ADAPTERS

Adapter station/probes for ultrasonic test. Impedance 50 Ω

Ref:

- ADP00F-BNCM



Lemo00M/BNCF ADAPTERS

Adapter station/probes for ultrasonic test. Impedance 50 Ω

Ref:

- ADP00M-BNCF



Lemo1F/Lemo00M ADAPTERS

Adapter station/probes for ultrasonic test. Impedance 50 Ω

Ref:

- ADP01F-00M



EKOSCAN/GEKKO ADAPTERS (LEMO10/MOLEX)

Adapter station/probes for ultrasonic test. Impedance 50Ω

Ref:

- ADPL10-MOLEX



MX1/MX2 ADAPTERS (LEMO16/SUB-D)

Adapter station/probes for ultrasonic test. Impedance 50Ω

Ref:

- ADPL16F-SUBDM

Other impedances and connectors upon request

ACCESSORIES USED IN ULTRASONIC TESTING

Wire encoder

EKOSCAN wire encoder, compatible with any UT board and probe.

- Encoded length: 1000 mm
- Encoding step: 0.1 mm
- Linearity: $\pm 0.20\%$
- Protection indication: IP50
- Fixing system: magnet

Ref:

- COD-F/1M



TOFD accessories

Preamplifier for TOFD method

- Lateral Lemo00 output
- 40 dB amplification
- Electronical protection to prevent in/out channel inversion
- Rugged casing against water flow and dust

Ref:

- PREAMP-1CH-40



2-channel preamplifier

Twin preamplifier for TOFD or dual probe operation

- Lem00 Eq. input
- Incl. Battery low indicator
- Amplification 40 dB other values on request
- Bandwidth <500 kHz - <25 MHz
- Measures approx. 60 x 125 x 35 mm
- Li-ion battery and charger
- Calibration certificate included
- One charge for over 30 hours of use

Ref:

- PREAMP-2CH-40

ACCESSORIES USED IN ULTRASONIC TESTING

UT couplant



Standard UT gel type UCA2
PMUC certified
5L bucket or 250 mL pipette

Ref:

- EKOGEL2



Specific UT gel without bubble. Do not dry.
Can be used for probe/wedge or
probe/delay line coupling
90 mL pipette

Ref:

- CB90



High temperature couplant, heat-resistant up to 300°
High adherence capacity to be used for controlling
vertical parts/workpieces
Packaging : 400 grams

Ref:

- EKOGREASE-HT

ACCESSORIES USED IN ULTRASONIC TESTING

Profile Comb



Profiles combs length 150, 300 and 500 mm enabling to take quickly and precisely a complex profile or shape.

Aluminum core, stainless steel edges

Ref:

- EKOFORM150
- EKOFORM300
- EKOFORM500

TOFD pump



Irrigation water pump for TOFD control

Ref:

- POMPETOFD



NDT EQUIPMENT CHECK



EKOSCAN is a company specialized in **ultrasonic NDT equipment** manufacturing. **ISO 9001 : 2015** certified, and based in **Saint Rémy, close to Chalon-sur-Saône** (71100).

EKOSCAN can check your equipment under **48 h** upon request:

VERIFICATION TYPES	DESCRIPTION	MAXIMUM DURATION
Conventional UT Board	Verification according to EN 12668-1	1 week
Phased Array	Phased Array Board 16: 32	2 weeks
	Phased Array Board 16: 64	2 weeks
	Phased Array Board 16: 128	2 weeks
	Phased Array Board 32: 128	2 weeks
	Phased Array Board 64: 64	2 weeks
	Phased Array Board 64: 128	2 weeks
Thickness gage	Verification according to EN 15317	1 week
	Verification according to an internal procedure	1 week
	Verification according to an internal procedure (simplified)	1 week
UT transducer	Verification according to EN 12668-2	1 week
	Verification according to aeronautics procedures	1 week
Equipments <ul style="list-style-type: none"> ● Magnetic particles ● Penetrant testing ● Various 	Electro-magnet of any brand according to EN ISO 9934-3	1 week
	Portable generator and testing bench for magnetic particles testing of any brand according to EN 9934-3	1 week
	Tangential and persistent field measurer (3 probes maximum) according to EN ISO 9934-3 for any wave form and frequency	1 week
	Light meter verification according to EN 3059	1 week
	Ultraviolet radiometer verification according to EN 3059	1 week
	Light meter and radiometer combination verification according to EN 3059	1 week
	Thermometer verification (any probe type) according to FD X 07-028 and 029	1 week
	Calibration blocs verification for penetrant testing	1 week
	Hardness measurer verification according to ASTM D 2240	1 week
	Coating measurer (for ferromagnetic or amagnetic) verification according to ASTM D 6132	1 week
Eddy current board	Verification according to ISO 15548-1	1 week
Calibration blocks for any technique	Verification according to current standards	To be defined

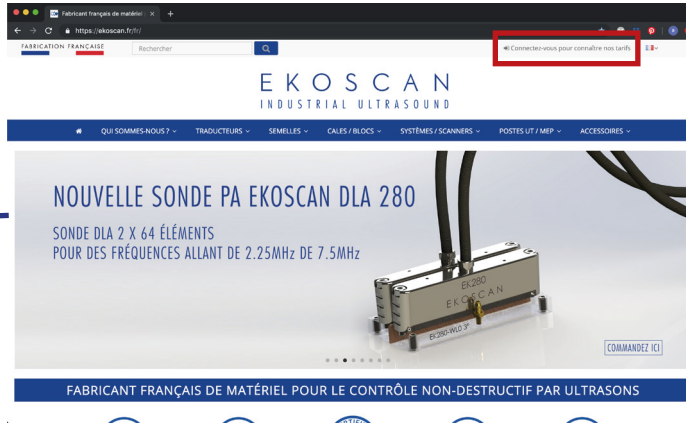
CONNECT !

1

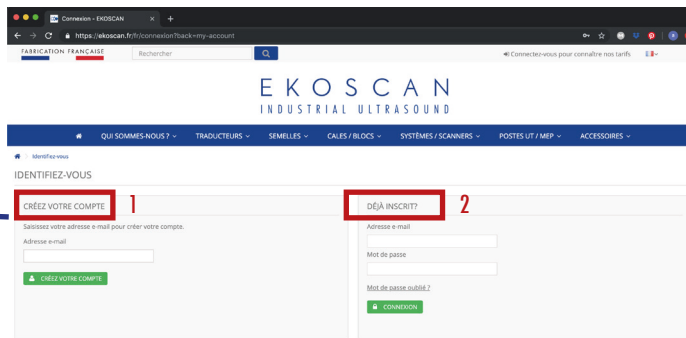
Go to our website www.ekoscan.fr

2

Click on the link: «Sign in»

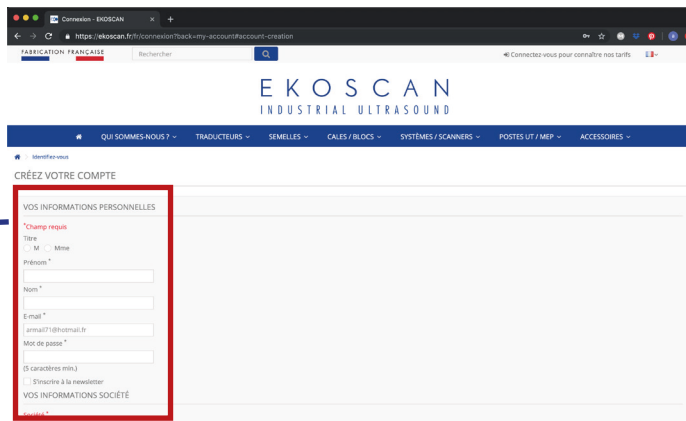


3



1 - Create your customer account using an email address
or
2 - Log in to your account

4



Enter all required fields.

5

Your account will be validated after receiving the confirmation email from the administrator



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EKHP12-LA2.25/64	64	EKT38-C	39	IM-10-10	48
EKHP12-LA3.5/64	64	EKT45	39	IM-10-13	48
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EKL35	39	EKT60	39	IM-15-6	48
EKL38	39	EKT60-C	39	IM-2.25-10	48
EKL45	39	EKT70	39	IM-2.25-13	48
EKL60	39	EKT70-C	39	IM-2.25-19	48
EKL70	39	EKT90	39	IM-2.25-25	48
EKLG35	39	EKT90-C	39	IM-2.25-29	48
EKLG38	39	EKTC	18	IM-2.25-38	48
EKLG45	39	EKTG35	39	IM-2.25-6	48
EKLG60	39	EKTG38	39	IM-3.5-10	48
EKLG70	39	EKTG45	39	IM-3.5-13	48
EKLH35	39	EKTG60	39	IM-3.5-19	48
EKLH38	39	EKTG70	39	IM-3.5-25	48
EKLH45	39	EKTH35	39	IM-3.5-6	48
EKLH60	39	EKTH38	39	IM-5-10	48
EKLH70	39	EKTH45	39	IM-5-13	48
EKNF1-3.5/64	63	EKTH60	39	IM-5-19	48
EKNF1-5/64	63	EKTH70	39	IM-5-25	48
EKNF3-5/128	63	EKTM	18	IM-5-6	48
EKOBLUE	92			IM-7.5-13	48
EKOBLUE TG	95	F		IM-7.5-19	48
EKOFLEX DOUBLE	107	F-SCAN10	55		
EKOFLEX SIMPLE	106				

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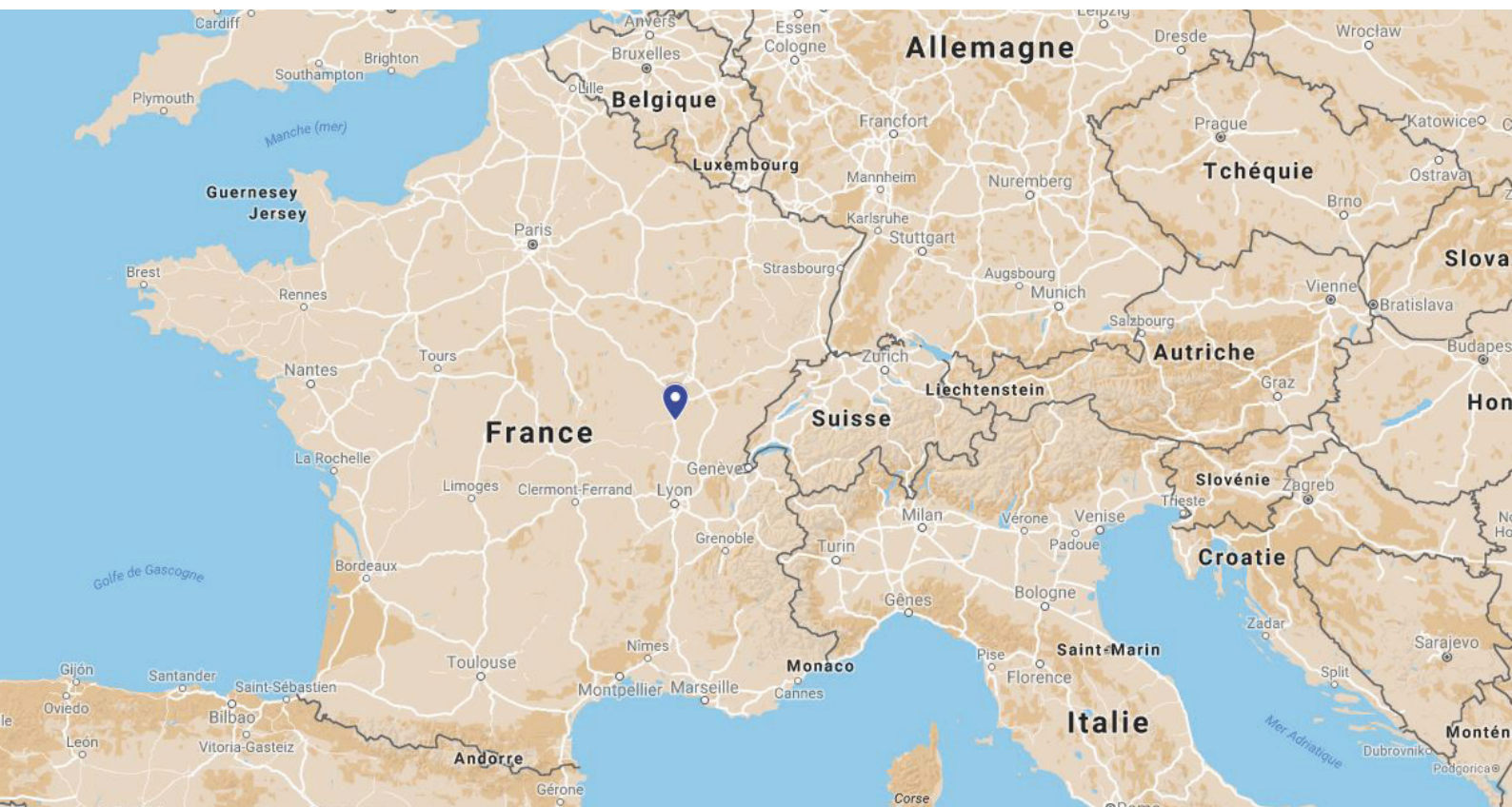
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LG10-6	14	MDVP4-1	41	MIW60-4 14x16	30
LG15-13	14	MDVP4-3	41	MIW60-4 14X16 PC	29
LG15-3	14	MIW35-2 14x14 PC	28	MIW60-4 14X16 PC TC	29
LG15-6	14	MIW35-2 14X14 PC TC	28	MIW60-4 14X16 TC	30
LG3-10	14	MIW35-2 14x16 PC	29	MIW60-4-HT 14x14	43
LG3-13	14	MIW35-2 14X16 PC TC	29	MIW60-4-HT 14x16	43
LG3-15	14	MIW35-4 14x14	30	MIW70-2 14x14 PC	28
LG3-6	14	MIW35-4 14X14 PC	28	MIW70-2 14X14 PC TC	28
LG5-10	14	MIW35-4 14X14 PC TC	28	MIW70-2 14x16 PC	29
LG5-13	14	MIW35-4 14X14 TC	30	MIW70-2 14X16 PC TC	29
LG5-15	14	MIW35-4 14x16	30	MIW70-4 14x14	30
LG5-6	14	MIW35-4 14X16 PC	29	MIW70-4 14X14 PC	28
LG8-10	14	MIW35-4 14X16 PC TC	29	MIW70-4 14X14 PC TC	28
LG8-15	14	MIW35-4 14X16 TC	30	MIW70-4 14X14 TC	30
LG8-6	14	MIW38-2 14x14 PC	28	MIW70-4 14x16	30
LP38	14	MIW38-2 14X14 PC TC	28	MIW70-4 14X16 PC	29
LP45	15	MIW38-2 14x16 PC	29	MIW70-4 14X16 TC	30
LP60	15	MIW38-2 14X16 PC TC	29	MIW70-4 1X16 PC TC	29
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LPG38	15	MIW38-4 14X14 PC	28	MIW70-4-HT 14x16	43
LPG45	15	MIW38-4 14X14 PC TC	28	MVP/MDVP	41
LPG60	15	MIW38-4 14X14 TC	30	MVP1	41
LPG70	15	MIW38-4 14x16	30	MVP2	41
LPH38	15	MIW38-4 14X16 PC	29	MVP4	41
LPH45	15	MIW38-4 14X16 PC TC	29	MW35-2 PC	27
LPH60	15	MIW38-4 14X16 TC	30	MW35-2 PC TC	27
LPH70	15	MIW45-2 14x14 PC	28	MW35-4	26
LS38	15	MIW45-2 14X14 PC TC	28	MW35-4 TC	26
LS45	15	MIW45-2 14x16 PC	29	MW38-2 PC	27
LS60	15	MIW45-2 14X16 PC TC	29	MW38-2 PC TC	27
LS70	15	MIW45-4 14x14	30	MW38-4	26
LSG38	15	MIW45-4 14x14 PC	29	MW38-4 TC	26
LSG45	15	MIW45-4 14X14 PC TC	28	MW45-2 PC	27
LSG60	15	MIW45-4 14X14 TC	30	MW45-2 PC TC	27
LSG70	15	MIW45-4 14x16	30	MW45-4	26
LSH38	15	MIW45-4 14x16 PC	29	MW45-4 TC	26
LSH45	15	MIW45-4 14X16 PC TC	29	MW45-4-HT	43
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LSH70	15	MIW45-4-HT 14x14	43	MW60-2 PC TC	27
		MIW45-4-HT 14x16	43	MW60-4	26
		MIW60-2 14x14 PC	28	MW60-4 TC	26
		MIW60-2 14X14 PC TC	28	MW60-4-HT	43
		MIW60-2 14x16 PC	29	MW70-2 PC	27
		MIW60-2 14X16 PC TC	29	MW70-2 PC TC	27
MATRIX RT	104	MIW60-4 14x14	30	MW70-4	26

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MW70-4 TC	26	SWQ2.25-10	38	TOFDV6I	81
MW70-4-HT	43	SWQ2.25-13	38	TP38	15
MW90-4	26	SWQ2.25-6	38	TP45	15
P		SWQ3.5-10	38	TP60	15
PATYPE19675A	14	SWQ3.5-13	38	TP70	15
PATYPE19675AL	82	SWQ3.5-6	38	TPG38	15
PATYPE19675I	82	SWQ5-10	38	TPG45	15
PATYPEAA	82	SWQ5-13	38	TPG60	15
PATYPEAAL	82	SWQ5-6	38	TPG70	15
PATYPEAI	82	SWQ7.5-10	38	TPH38	15
PATYPEBA	82	SWQ7.5-13	38	TPH45	15
PATYPEBAL	82	SWQ7.5-6	38	TPH60	15
PATYPEBI	82	T		TPH70	15
POMPETOFD	116	TFDT10-10/M12	51	TS38	15
PREAMP-1CH-40	114	TFDT10-3/M10	51	TS45	15
PREAMP-2CH-40	114	TFDT10-3/M12	51	TS60	15
S		TFDT10-5/M12	51	TS70	15
SAC	20	TFDT10-6/M10	51	TSG38	15
SD-10	36	TFDT10-6/M12	51	TSG45	15
SD-5	36	TFDT10-6/M12	51	TSG60	15
SINGLE WIRE	112	TFDT15-3/M10	51	TSG70	15
SMD10F3	36	TFDT15-3/M12	51	TSH38	15
SMD4F8	36	TFDT15-5/M12	51	TSH45	15
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SMD5F8	36	TFDT15-6/M12	51	TSH70	15
SMW35-10	13	TFDT2.25-13/M20	51	V	
SMW35-5	13	TFDT2.25-19/M25	51	V3-ERC-OT70D-2.25-15X20-SN	21
SMW35-7.5	13	TFDT3.5-10/M12	51	V3-ERC-OT70G-2.25-15X20-SN	21
SMW38-10	13	TFDT3.5-19/M25	51	V3-ERD-OL0-2.25-D17/2-SN	21
SMW38-5	13	TFDT3.5-6/M10	51	V6-ERC-OT35-2.25-D20-SN	21
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SMW45-10	13	TFDT4-3/M12	51	V6-ERC-OT55-2.25-D13-SN	21
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SPI-ERC-OT70/5D-2.25-20X15-MA	21	TFDT5-6/M12	51	V6-ERD-OL0-2.25-D17/2-SP	21
SPI-ERC-OT70/5G-2.25-20X15-MA	21	TFDT5-6/M12	51	V6-ERD-OL0-4-D17/2-SN	21
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		TFDT7.5-6/M12	51		
		TOFDV6A	81		

VP1	41	WT55/M25	52	5STI-2/10	75
VP2	41	WT60/M10	52	5STI-5/25	75
VP4	.....	41	WT60/M12	.....	52			
VVA-L	.....	14	WT60/M20	.....	52	7		
			WT60/M25	.....	52			
W			WT70/M10	52	7STA-1/10	75
			WT70/M12	52	7STA-2/25	75
W35-1	31	WT70/M20	52	7STA-5/50	75
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W35-2	31	WTI35/M10	53	7STI-2/25	75
W35-2 TC	31	WTI35/M10/O	54	7STI-5/50	75
W35-4	31	WTI35/M12	53			
W35-4 TC	31	WTI35/M12/O	54	8		
W38-1	31	WTI38/M10	53			
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W38-2	31	WTI38/M12	53	8STA-6/65	75
W38-2 TC	31	WTI38/M12/O	54	8STFPA-6/65-1.5	76
W38-4	31	WTI45/M10	53	8STFPA-6/65-11	76
W38-4 TC	.....	31	WTI45/M10/O	.....	54	8STFPA-6/65-2	.....	76
W45-1	.....	31	WTI45/M12	.....	53	8STFPA-6/65-3	.....	76
W45-1 TC	31	WTI45/M12/O	54	8STFPA-6/65-5	76
W45-2	31	WTI55/M10	53	8STFPA-6/65-6	76
W45-2 TC	31	WTI55/M10/O	54	8STFPA-6/65-8	76
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W45-4 TC	31	WTI55/M12/O	54	8STFPI-6/65-11	76
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W60-4	31	WTI70/M10	53	8STFPI-6/65-8	76
W60-4 TC	31	WTI70/M10/O	54	8STI-2.5/50	75
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W70-1 TC	31	WTI70/M12/O	54			
W70-2	31				10		
W70-2 TC	31	5					
W70-4	31				10STA-1/10	75
W70-4 TC	31	5STA-2/10	75	10STA-2.5/25	75
WT38/M10	.....	52	5STA-5/25	.....	75	10STI-1/10	.....	75
WT38/M12	.....	52	5STI-2/10	.....	75	10STI-2.5/25	.....	75
WT38/M20	.....	52						
WT38/M25	.....	52						
WT45/M10	52						
WT45/M12	52						
WT45/M20	52						
WT45/M25	52						
WT55/M10	52						
WT55/M12	52						
WT55/M20	52						

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Your probe will be manufactured, tested and shipped

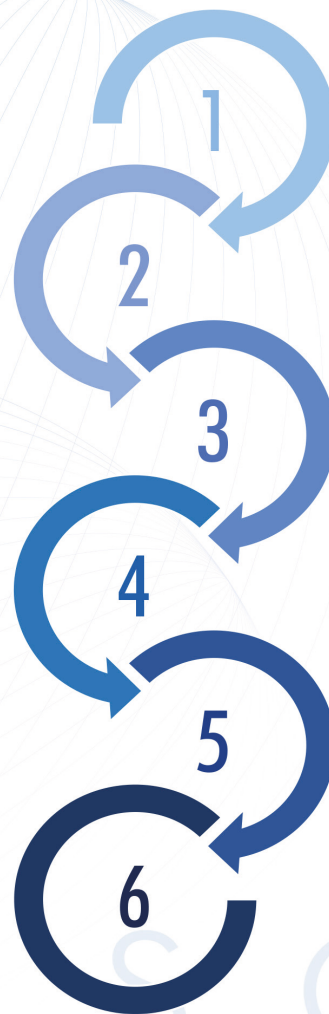
1 Define your specific requirements

Inspection Type, Frequency, Active aperture...

3 Our engineers will review your specifications and send you a quotation



5 We will wait for your review and approval



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Enter your probe description

PROBE DESCRIPTION

1 - Select your inspection context

2 - Select the material to be inspected

3 - Choose the Impedance adaptation

4 - Curved Array Passive Yes No

5 - Curved Array Active Yes No

6 - Elements number

7 - Frequency

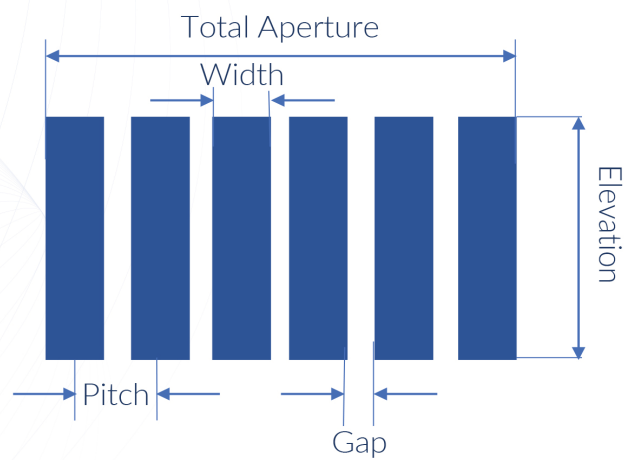
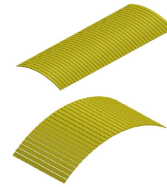
8 - Pitch

9 - Elevation

10 - Connector type

11 - Cable length

12 - Add more about your needs



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Enter your wedge description and send the PDF by mail at contact@ekoscan.fr

WEDGE DESCRIPTION

1 - Wedge type

Choose...

2 - Nominal refracted angle

°

3 - Compatible probe

4 - Irrigation ports

Yes

No

5 - Holes for scanner

Yes

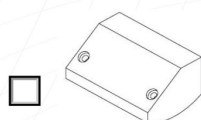
No

6 - If you have any curvature need, select the shape

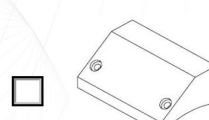
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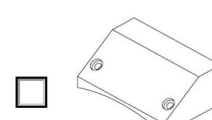
AID



CID



COD



AOD

7 - Shaping diameter

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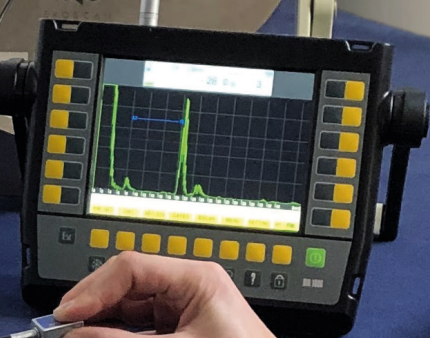
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