INSTRUMENTS

ECTANE 2

The leading multi-technology instrument for surface and tubing applications is designed to be the most versatile, reliable, and powerful EC platform on the market.

Designed for rapid crack and corrosion assessment. Its easy deployment, better PoD, length and depth sizing capabilities, data recording capacity, and consistent results help replace PT and MT.

Designed specifically for AC and tubing inspections, the system is compatible with all air-conditioner and ECT probes on the market without the need for adapters and the integrated software enables on-the-fly reporting.

REDDY FOR SURFACES REDDY FOR TUBING LYFT

Reinventing PEC, the solution is designed for CUI and other critical applications. Often superior to radiography/stripping because it does not require access to both sides or surface preparation, and has no health hazards, making it much more cost efficient.



APPLICATIONS	Surfaces • Corrosion detection • Crack detection • Welds • Turbines • Castings • Etc. Tubing • Ferrous and non-ferrous	Surfaces • Corrosion detection • Crack detection • Welds • Turbines • Castings • Etc.	Tubing • Non-ferrous • Air conditioners • Chillers	Corrosion detection Corrosion under insulation (CUI) Corrosion blisters and scabs Flow-accelerated corrosion (FAC) Corrosion under fireproofing (CUF) Splash zone and underwater Surface corrosion Corrosion under coatings Waterworks
TYPICAL BATTERY AUTONOMY	8 hours	6–8 hours	6–8 hours	6–8 hours
SUPPORTED INSPECTION TECHNOLOGIES	ECT, ECA, TECA, RFT, NFT, NFA, MFL, IRIS	ECA, TECA, MFL and ECT	ECT	Pulsed eddy current (PEC) Pulsed eddy current array (PECA)
DATA ACQUISITION	Up to 50 000 samples/s	Up to 50 000 samples/s	Up to 50 000 samples/s	Up to 75 mm/s (3 in/s)
SMARTMUX ECA CHANNELS	64, 128, 256	32, 64, 128		
ECT PROBE INPUTS	8	4	4	
ECT FREQUENCY RANGE	5 Hz-10 MHz	5 Hz-10 MHz	5 Hz-10 MHz	
IRIS TURBINE SPEED	Up to 100 RPS			
NOMINAL WALL THICKNESS				Up to 100 mm (4 in)
LIFTOFF TOLERANCE				Up to 300 mm (12 in)
SETUP TECHNOLOGY				SmartPULSE
UNDERSIZING COMPENSATION				Compensated wall thickness (CWT) tool
SUPPORTED WEATHER JACKETS				Stainless steel up to 1.5 mm (0.06 in) Aluminum up to 1 mm (0.04 in) Galvanized steel up to 1 mm (0.04 in)
SUPPORTED PART GEOMETRY				From 25 mm (1 in) OD to flat
AUTOMATIC REPORTING		\checkmark	√	
UNIQUE FEATURES	Multi-technology instrument	Dedicated surface inspection solution	Instant, automated reporting	Accessible CUI integrity management solution Most powerful and easy-to-use screening system

• Field-proven—hundreds of units in service

• Portable and rugged

imateo reporting • Shortest complete inspection time in the industry • Most powerful and easy-to-use screening system

on the market

EDDYFI PRODUCT LINE

Eddyfi Technologies

THE EDDYFILINE PROBES

THE BEST EM TESTING PRODUCTS – BAR NONE

The Eddyfi product line focuses mainly on high-performance advanced electromagnetic solutions for the inspection of critical components and assets. Eddyfi products are the industry's best performing and most reliable test instruments, acquisition and analysis software, as well as standard andmore importantly-specialized surface array and tubing probes.

Eddyfi-line products constantly propel the limits of electromagnetic testing to new heights in an attempt to respond to your ever-changing inspection challenges.

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TECA		11	500	ECA
APPLICATIONS	Welds and plates	Welds and plates	Pipes and plates	APPLIC
MATERIALS	Ferrous	Ferrous	Ferrous	MATE
SURFACE-BREAKING CRACKS	V	V	V	FAR-SURFACE
LENGTH & DEPTH SIZING	V	V	V	SUBSURFAC
DETECTABLE DEFECTS (L×D)	3.0×0.5 mm (0.12×0.02 in)	3.0×0.5 mm (0.12×0.02 in)	2.00×0.25 mm (0.08×0.01 in)	SURFACE-BREA
MAX. MEASURABLE CRACK DEPTH	7 mm (0.28 in)	7 mm (0.28 in)	3 mm (0.12 in)	LENGTH
SIZING ACCURACY	±2 mm (0.08 in) ±10−20 %	±2 mm (0.08 in) ±10–20 %	±10 %	MIN. DETECTABLE
SCAN SPEED	Up to 200 mm/s (8 in/s)	Up to 200 mm/s (8 in/s)	Up to 600 mm/s (24 in/s)	FREQUENC
LIFTOFF TOLERANCE	Up to 3 mm (0.12 in)	Up to 3 mm (0.12 in)	Up to 2 mm (0.08 in)	PENETRATION STEEL/ALU
COVERAGE	un to 53 mm (21 in)	7 mm (0 3 in)	71 mm (2.8 in)	

APPLICATIONS
MATERIALS
FAR-SURFACE CORROSION
SUBSURFACE DEFECTS
SURFACE-BREAKING DEFECTS
LENGTH SIZING
MIN. DETECTABLE CRACK LENGTH
FREQUENCY RANGES
PENETRATION (STAINLESS STEEL/ALUMINUM)

F	(

TEMP. W/PROBE SHOE







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APPLICATIONS	CUI, CUF, FAC	CUI, CUF, FAC	CUI, CUF, FAC	Corrosion under marine growth	Tank annular rings
SUPPORTED WALL THICKNESS	6–25 mm (0.25–1.00 in)	Up to 102 mm (4 in)	Up to 38 mm (1.5 in)	Up to 102 mm (4 in)	Up to 25 mm (1 in)
SUPPORTED CLADDING	Aluminum, stainless steel	Aluminum, stainless steel, galvanized steel	Galvanized steel		
SUPPORTED LIFTOFF	25–102 mm (1–4 in)	0–305 mm (0–12 in)	13–153 mm (0.5–6 in)	0–300 mm (0–12 in)	0–13 mm (0–0.5 in)
FOOTPRINT AT MIN. LIFTOFF	46 mm (1.8 in)	35–100 mm (1.4–3.9 in)	62 mm (2.4 in)	62–100 mm (2.4–3.9 in)	35 mm (1.4 in)
WATERTIGHTNESS				100 m (330 ft)	
BLADE LENGTH					400 mm (15.75 in)
MAX. DIRECT CONTACT SURFACE TEMPERATURE	70 °C (158 °F)	70 °C (158 °F)	70 °C (158 °F)	70 °C (158 °F)	70 °C (158 °F)
MAX. DIRECT CONTACT SURFACE		120 °C (248 °F)			

	ect, rft, NFT, MFL	A/C	DefHi	NFA	IRIS		
T U B E S			AN ANT		AN IN	PROBOT	
APPLICATIONS	Heat exchangers, fin-fan air coolers	Air conditioners	Heat exchangers	Fin-fan air coolers	All tubing apps	INSPECTION TECHNOLOGY	ECT, ECA, RFT, NFT, NFA, MRPC, MFL, IRIS
MATERIALS	Ferrous, non-ferrous	Non-ferrous	Non-ferrous	Ferrous	Ferrous, non-ferrous	INSPECTION SPEEDS	0–2.5 m/s (0–8 ft/s)
DETECTABLE DEFECTS	Pitting, wall loss, cracks, volumetric	Pitting, wall loss, axial, circumferential	Axial, circumferential	Axial, circumferential	Volumetric	WEIGHT	23 kg (50 lb)
INSPECTION SPEED	0.3–1 m/s (1–3.3 ft/s)	1 m/s (3.3 ft/s)	1 m/s (3.3 ft/s)	0.3 m/s (1 ft/s)	0.1 m/s (4 in/s)	DESIGNED TO IP65	√
SEALED	V	V	V	V	V	SINGLE OPERATOR	√
REPLACEABLE PARTS	V		V	V	V	POLY DIAMETER RANGE	6.35–9.53 mm (0.25–0.38 in)
SIZING CAPABILITIES	√	V	√	√	√	ENCODED DATA	2× for higher speed control
COMPATIBLE WITH COMPETITION	V	V			V	DATA SYNCHRONIZATION	All-in-one, linked to Ectane/ Magnifi
HIGH DURABILITY	V	V	V	V	V	AUTOMATION	Automated sequences
C-SCAN IMAGING			V	V	V	A STOPIATION	controlled w/ probe gun

Butt Weld Sharck Pencil Sharck High-Res. Sharck

Spyne	I-Flex	Padded	Semi-Flex	Gear
are see	/		- HI	4
Smooth, curved	Smooth. curved		Smooth. curved	<u> </u>

Wolde

Coor

surfaces	surfaces	Wetus	surfaces	00013
Ferrous, non-ferrous	Ferrous, non-ferrous	Ferrous, non-ferrous	Ferrous, non-ferrous	Ferrous, non-ferrous
/	V		V	
V	V		V	
V	V	V	V	V
V	V	V	V	V
0.5–1.5 mm (0.02–0.06 in)	0.5–1.5 mm (0.02–0.06 in)	0.5–1.0 mm (0.02–0.04 in)	0.5 mm (0.02 in)	5 mm (0.20 in)
0.6–800 kHz	0.6–800 kHz	50–800 kHz	0.6–800 kHz	0.25–1 MHz
Up to 6 mm (0.24 in)	Up to 6 mm (0.24 in)		Up to 6 mm (0.24 in)	
200 mm (8 in)	34–128 mm (1.34–5.04 in)	34–58 mm (1.34–2.28 in)	34–128 mm (1.34–5.04 in)	50–112 mm (2.0–4.4 in)