## INSTRUMENTS

	Ectane 2	Reddy Surface	Reddy Tubing	Lyft
	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.	This turnkey ECA system is designed to perform critical surface inspections. Its fast and 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.	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	ECT	Pulsed eddy current (PEC)
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		V	V	V
UNIQUE FEATURES	<ul> <li>Multi-technology instrument</li> <li>Field-proven—hundreds of units in service</li> </ul>	<ul> <li>Dedicated surface ECA inspection solution</li> <li>Portable and rugged</li> </ul>	<ul> <li>Instant, automated reporting</li> <li>Shortest complete inspection time in the industry</li> </ul>	<ul> <li>Accessible CUI integrity management solution</li> <li>Most powerful and easy-to-use screening system on the market</li> </ul>

Eddyfi Technologies

## EDDYFI PRODUCT LINE





## 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.

The information in this document is accurate as of its publication. Actual products may differ from those presented herein.
© 2018 EddyfiNDT, Inc. DefHi, Ectane, Eddyfi, I-Flex, Lyft, Magnifi, Probot, Reddy, Sharck, SmartMUX, SmartPULSE, TECA,
and their associated logos are trademarks or registered trademarks of Eddyfi NDT, Inc. in the United States and/or other
countries. Eddyfi Technologies reserves the right to change product offerings and specifications without notice.
2018-01-08 SXSC2031A

TECA			J.	500	ECA
APPLICATIONS	Welds and plates	Welds	Welds and plates	Pipes and plates	APPLICATIO
MATERIALS	Ferrous	Ferrous	Ferrous	Ferrous	
SURFACE-BREAKING CRACKS	V	٧	V	V	MATERIAI FAR-SURFACE CO
LENGTH & DEPTH SIZING	V	V	٧	V	SUBSURFACE D
DETECTABLE DEFECTS (L×D)	3.0×0.5 mm (0.12×0.02 in)	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-BRE DEFECTS
MAX. MEASURABLE CRACK DEPTH	7 mm (0.28 in)	7 mm (0.28 in)	7 mm (0.28 in)	3 mm (0.12 in)	LENGTH SIZ
SIZING ACCURACY	±2 mm (0.08 in) ±10–20 %	±2 mm (0.08 in) ±10–20 %	±2 mm (0.08 in) ±10–20 %	±10 %	MINIMUM DETE CRACK LEN
SCAN SPEED	Up to 200 mm/s	Up to 200 mm/s	Up to 200 mm/s	Up to 600 mm/s	FREQUENCY R
	(8 in/s)	(8 in/s)	(8 in/s)	(24 in/s)	PENETRATION (S STEEL/ALUMI
LIFTOFF TOLERANCE	Up to 3 mm (0.12 in)	Up to 3 mm (0.12 in)	Up to 3 mm (0.12 in)	Up to 2 mm (0.08 in)	
COVERAGE	53 mm (2.1 in)	30 mm (1.2 in)	7 mm (0.3 in)	71 mm (2.8 in)	COVERAG

DefHi

RFT

Fillet Weld

Pencil

High-Res.

Butt Weld

ECT

PEC







APPLICATIONS	CUI, CUF, FAC	CUI, CUF, FAC	Corrosion under marine growth	Tank annular rings
SUPPORTED WALL THICKNESS	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)
PPORTED CLADDING	Aluminum, stainless steel, galvanized steel	Galvanized steel		
SUPPORTED LIFTOFF	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)
TPRINT AT MIN. LIFTOFF	35–100 mm (1.38–3.94 in)	62 mm (2.44 in)	62–100 mm (2.44–3.94 in)	35 mm (1.38 in)
WATERTIGHTNESS			100 m (330 ft)	
BLADE LENGTH				400 mm (15.75 in)
AX. DIRECT CONTACT	70 °C (158 °F)	70 °C (158 °F)	70 °C (158 °F)	70 °C (158 °F)

	_							_
APPLICATIONS	Heat exchangers	Heat exchangers	Heat exchangers	Fin-fan air coolers	Fin-fan air coolers	All tubing apps	INSPECTION TECHNOLOGY	ECT, ECA, RFT, NFT, NFA, MRPC, MFL, IRIS
MATERIALS	Non-ferrous	Non-ferrous	Ferrous	Ferrous	Ferrous	Both	INSPECTION SPEEDS	0–2.5 m/s (0–8 ft/s)
DETECTABLE DEFECTS	Pitting, general wall loss, axial	Axial, circumferential	Pitting, general wall loss, volumetric	Pitting, general wall loss, circumferential	Axial, circumferential	Volumetric	WEIGHT	23 kg (50 lb)
INSPECTION SPEED	1 m/s (3.3 ft/s)	1 m/s (3.3 ft/s)	0.3 m/s (1 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	٧	V	V		
REPLACEABLE PARTS		V		V	V	V	SINGLE OPERATOR	V
							POLY DIAMETER RANGE	6.35–9.53 mm (0.25–0.38 in)
SIZING CAPABILITIES	V	٧	V	Detection only	٧	V	ENCODED DATA	2× for higher speed control
COMPATIBLE WITH COMPETITION	V		V	V		V		All-in-one, linked to
HIGH DURABILITY	V	V	V	V	V	V	DATA SYNCHRONIZATION	Ectane/Magnifi
C-SCAN IMAGING		V			V	V	AUTOMATION	Automated sequences controlled /w probe gun
								•

NFT, MFL

SURFACE TEMPERATURE MAX. DIRECT CONTACT RFACE TEMP./W PROBE SH 120 °C (248 °F)

I-Flex	Padded	Semi-Flex	Gear
/			4
Smooth curved	W.I.J.	Smooth curved	0

IONS	surfaces	Welds	surfaces	Gears
ALS	Ferrous & non-ferrous	Ferrous & non-ferrous	Ferrous & non-ferrous	Ferrous & non-ferrous
ORROSION	V		V	
DEFECTS	V		V	
REAKING TS	V	V	V	V
IZING	V	V	V	V
TECTABLE NGTH	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)
RANGES	0.6–800 kHz	50–800 kHz	0.6–800 kHz	0.25–1 MHz
(STAINLESS 4INUM)	Up to 6 mm (0.24 in)		Up to 6 mm (0.24 in)	
AGE	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)



