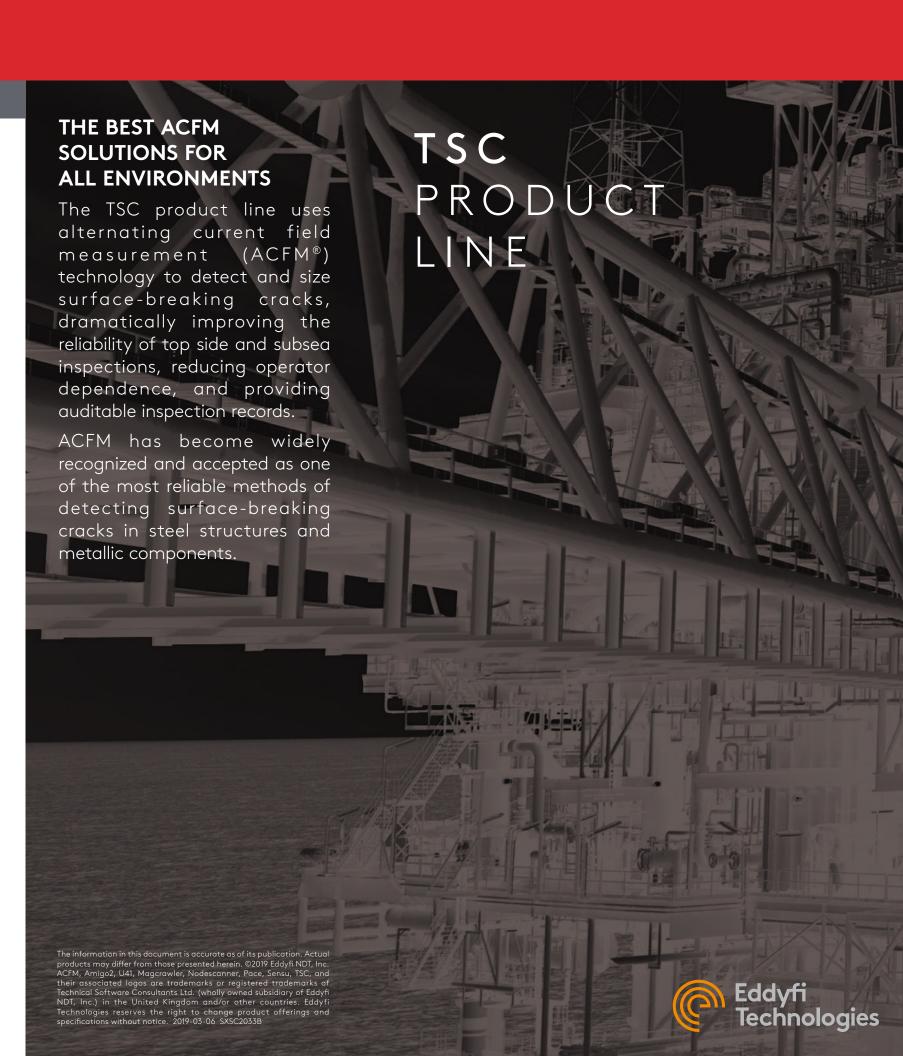
## INSTRUMENTS

AMIGO2	U41
Topside weld inspection through coatings,	Subsea weld inspection, splash zone,

PACE

APPLICATIONS	Topside weld inspection through coatings, drill threads, bridges, infrastructure, spheres, tanks	Subsea weld inspection, splash zone, jackets and subsea structures, pipelines, damage assessment	Rope access, cranes, towers, offshore/ onshore structures, single-person operation, through coatings				
DIMENSIONS	355×288×127 mm (14.0×11.3×5.0 in)	156x156x430 mm (6.2x6.2x17 in)	295×198×75 mm (11.6×7.8×3.0 in)				
WEIGHT	6.6 kg (14.5 lb)	9.2kg (20.3lb)in air	2.5 kg (5.5 lb)				
TYPICAL BATTERY AUTONOMY	Over 6-8 hours (dual batteries, hot swappable)		Over eight hours (single battery)				
RECHARGE TIME	5 h (from depleted)	3.5 h (from depleted) Desktop and in-vehicle charger					
OPERATING TEMPERATURE RANGE	0-40 °C (32-104 °F)	0-40 °C (32-104 °F)	-20-50 °C (-4-122 °F)				
PROBE CABLE LENGTH	Up to 50 m (164 ft)	5 m (16.4 ft)	Up to 15 m (49 ft)				
UMBILICAL CABLE		150 m - 450 m (492 ft - 1476 ft)					
ARRAY SUPPORT	Yes	U41D: No U41DA: Yes 4 rows U41R / RDW: Yes	No				
ENVIRONMENTAL PROTECTION	IP65 rated	IP64 rated Topside unit	IP65 rated				
ACFM SOFTWARE	Embedded and desktop Assist software	Desktop Assist software	Embedded Pace software				
ACCOMPANYING HARDWARE	None necessary (optional rugged laptop available for remote operation)  Optional rugged laptop		None necessary				
MAX. OPERATING DEPTH		U41D / DA / R: 300m (1000 ft) U41RDW deployment: 2000m (6500ft)					
ROV COMPATIBILITY		U41R / RDW					



## ACFM® PROBES

STANDARD COMPATIBLE INSTRUMENTS Amigo2 Amigo2 Amigo2 SURFACE-BREAKING DEFECTS ٧ THROUGH COATING ٧ WELD INSPECTION ٧ ٧ Rough welds, Restricted areas, High sensitivity Extended/Angled **APPLICATIONS** heavy pitting, rat holes, plate for shallow nose for difficult defects (<1 mm) edges to access areas corrosion Fixed at 5 kHz Fixed at 5 kHz Fixed at 5 kHz FREQUENCY/HF OPTION Fixed at 5 kHz 50 kHz HF option 50 kHz HF option 50 kHz HF option Straight, right Straight, right Extended or NOSE CONFIGURATION angled angle, transverse angle, transverse

## SUBSEA DIVER

COMPATIBLE INSTRUMENTS

OPERABLE DEPTH

SURFACE-BREAKING DEFECTS

THROUGH COATING

WELD INSPECTION

**APPLICATIONS** 



U41D, Amigo2

U41D: 300 m

Amigo2: 50 m

(164 ft)

Welds

fillet and

nodal joints

including butt,

Diver Weld



Amigo2, U41D

Amigo2: 50 m

U41D: 300 m

Welds, plates,

tubulars

(984 ft)



Amigo2, U41D

Amigo2: 50 m

U41D: 300 m

(984 ft)

٧

٧

Weld repair

inspection,

long nose

grind



Ground Weld Tight Access Mini-Pencil Micro-Pencil

Amigo2, U41D

Amigo2: 50 m

U41D: 300 m

(984 ft)

Tubular

welded

connections.

tight geometry



Amigo2, U41D

Amigo2: 50 m

U41D: 300 m

(984 ft)

٧

٧

٧

High

shallow

defects

(<1 mm)

sensitivity for

Amigo2, U41D

Amigo2: 50 m

U41D: 300 m

(984 ft)

٧

٧

٧

Restricted

areas, rat

edges

holes, plate

Pick & Place Low-Profile





COMPATIBLE INSTRUMENTS	Pace
SURFACE-BREAKING DEFECTS	√
THROUGH COATING	√
WELD INSPECTION	<b>v</b>
APPLICATIONS	Single-operator rope access, cranes, bridges, topside welds
FREQUENCY/HF OPTION	Fixed at 5 kHz 50 kHz HF option
NOSE CONFIGURATION	Straight, right angle, transverse right angle

3.5 TPI

Lilcoded Weld	Compliant Array	riat-Bottom Ariay
Encoded Weld	Compliant Array	Flat-Bottom Array



Mini-Pencil Micro-Pencil Long/Angled Nose













## THREAD



5 TPI

4 TPI

ARRAY				ROV				ARRAY		1				
COMPATIBLE INSTRUMENTS	Amigo2	Amigo2	Amigo2	COMPATIBLE INSTRUMENTS	U41R / Engineered s	colutions, e.g., Magcrawler,	Nodescanner, etc.			COMPATIBLE INSTRUMENTS	Amigo2	Amigo2	Amigo2	
APPLICATIONS	Defect sizing and location	Butt and lap welds	Flat/Gently curved plates, flush or low profile welds	OPERABLE DEPTH	1 km (0.5 mi)	1 km (0.5 mi)	1 km (0.5 mi)	1 km (0.5 mi)	1 km (0.5 mi)	FREQUENCY	5 kHz (420) 50 kHz (520)	5 kHz (377) 50 kHz (369)	5 kHz (378) 50 kHz (370)	
SCAN WIDTH	30 mm (1.18 in)	45 mm (1.77 in)	45 mm (1.77 in)	APPLICATIONS	Flat surfaces	Flat surfaces	Tight access	Low-dexterity deployment	Low-overhang areas	APPLICATIONS	Drill pips, threade	Drill pips, threaded connections, including under hig		
POSITION ENCODER	٧	٧	<b>V</b>	SCAN WIDTH	50 mm (1.97 in)	26 mm bottom 10 mm each side	8 mm bottom 35 mm each side	80 mm long 20 mm wide	40 mm (1.57 in)	SCAN WIDTH	8 threads (3.5 threads/in)	12 threads (4 threads/in)	12 threads (5 threads/in)	
START/STOP BUTTONS	٧	V	V		(	(1.02×0.40 in)	(0.31×1.38 in)	(3.15×0.79 in)		POSITION ENCORER			,	
STATUS LIGHTS	٧	V	√	POSITION ENCODER	Optional	Optional				POSITION ENCODER	٧		V	
NO. OF ROWS/CHANNELS	3/10	8/16	8/16	NO. OF ROWS/CHANNELS	8/32	7/28	15/30	2/32	6/24	START/STOP BUTTONS	√	<b>√</b>	V	
	-7	0/10		FIELDS/SENSORS	y ly	Vlv	v	V		NO. OF ROWS/CHANNELS	8/16	12/24	12/24	
FIELDS/SENSORS	х/у	X	x/y	TILLEDS/SENSONS	x/y	x/y	A	Á	x/y	FIELDS/SENSORS	х	Х	x	