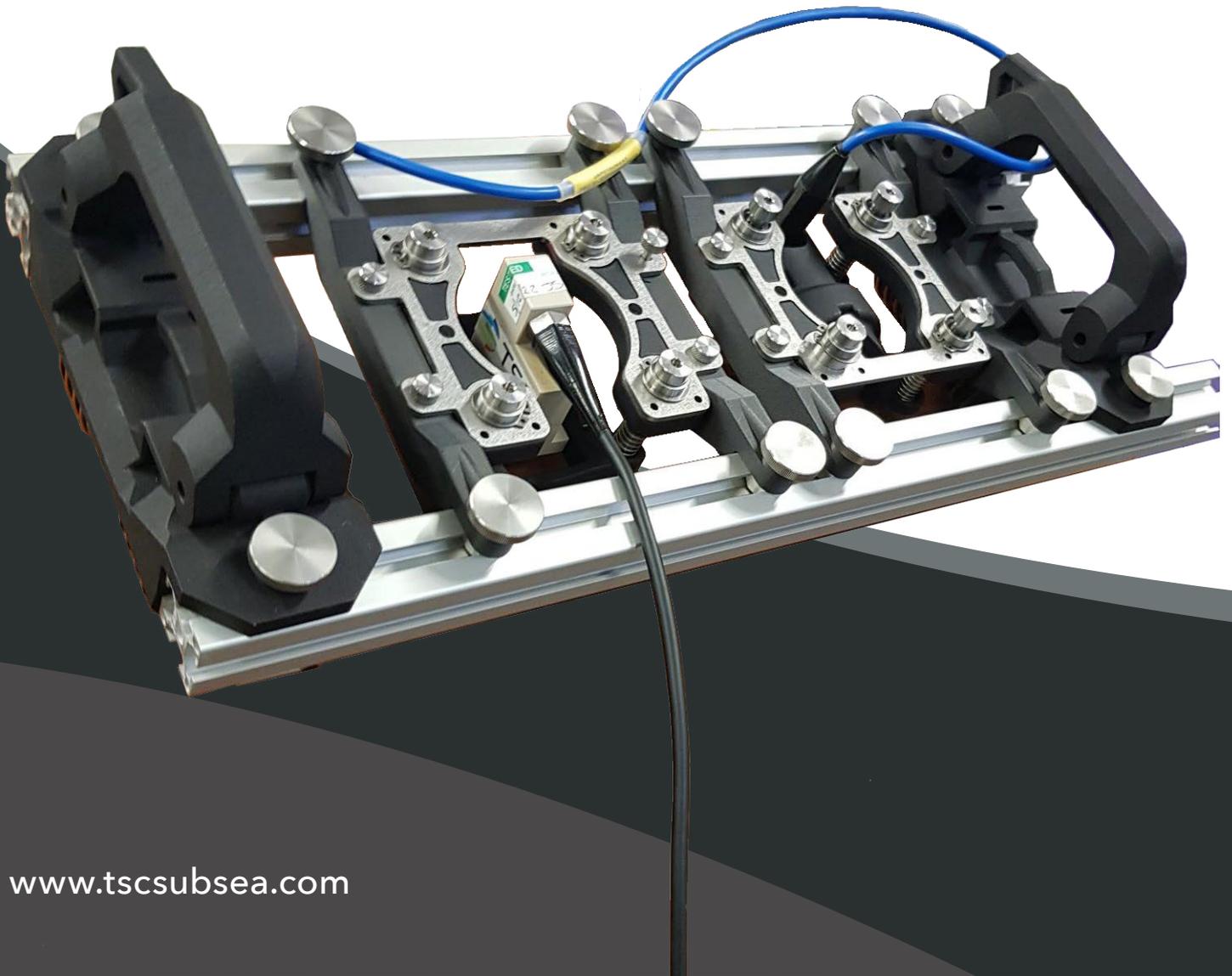


# VISTA™

Diver Deployed Multi-technology Scanner  
Corrosion Mapping and Weld Inspection.



[www.tscsubsea.com](http://www.tscsubsea.com)



# VISTA™

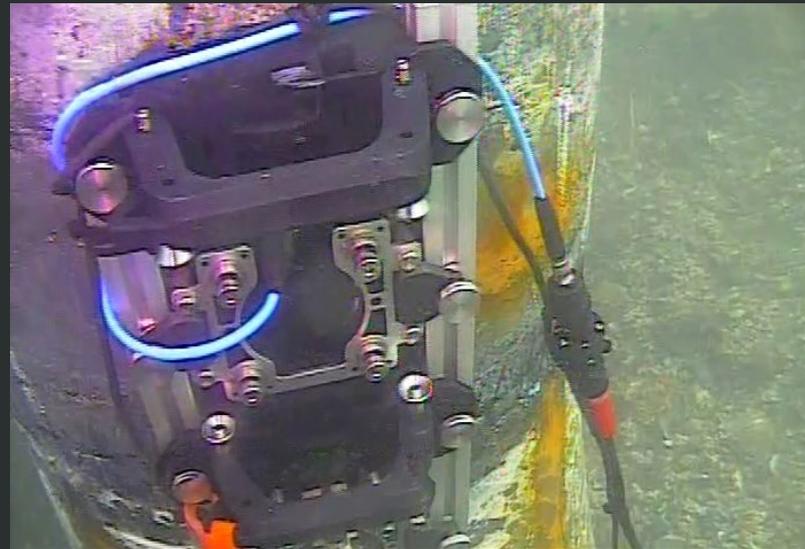
## Versatile Inspection System for Subsea Technical Assessment.

TSC Subsea's inspection services offer a comprehensive range of diver-deployed inspection solutions utilising advanced non-destructive testing (NDT) methods such as Alternating Current Field Measurement (ACFM®), Subsea Phased Array (SPA™), Subsea Pulsed Eddy Current Testing Array (SPECTA™), and Time-of-Flight Diffraction (TOFD).

Our latest innovation, VISTA, is a multifunctional hybrid scanner designed for diver deployment, combining advanced ACFM and SPA technologies for corrosion mapping and weld integrity assessment. This scanner will provide quantitative data sets for remaining wall thickness and full volumetric inspection of welds and other structures.

The lightweight, low-profile scanner, equipped with magnetic wheels and easily switchable brakes, reduces the diver's burden while ensuring excellent data quality and increasing inspection efficiency.

The dual-bar arrangement provides industry-leading probe stability, superior scan accuracy, and manoeuvrability, ensuring more reliable inspections while reducing the time a diver spends underwater.



### APPLICATIONS

- > Circumferential and longitudinal weld inspection
- > Crack detection, sizing & monitoring
- > Corrosion/erosion detection & sizing
- > Vessel circumferential welds
- > Pipe to elbow/feature welds
- > Subsea storage tanks
- > Flange face inspection



## EFFICIENCY AND VERSATILITY

The scanner is extremely versatile, allowing it to be customised for various applications. The SPA corrosion mapping mode supports circumferential and longitudinal scanning from 30mm (1.2in) to flat plates.

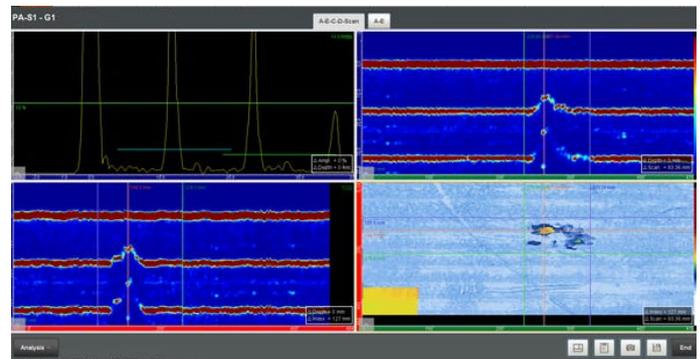
In SPA, TOFD, or ACFM weld inspection modes, it delivers thorough volumetric weld inspection capabilities and surface-breaking crack detection for assets such as subsea pipelines, flanges, elbows, and the structural welds of offshore installations or floating vessels.



## NDT TECHNOLOGIES

### SPA™

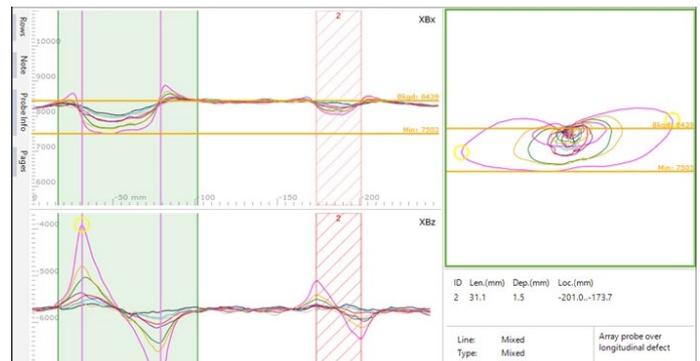
- > High-resolution corrosion mapping and volumetric weld assessment.
- > Advanced techniques, including ToFD and TFM.
- > Improved defect detection with a high probability of detection from a single probe position.
- > Suitable for ferrous and non-ferrous assets.



SPA corrosion mapping data detailing pitting.

### ACFM®

- > Surface-breaking crack detection and sizing
- > Recognised and approved by many certification bodies, including DNV, ABS, BV and Lloyds.
- > Computerised auditable data, unlike MPI.
- > Reliable results despite surface imperfections.



ACFM crack detection with sizing.

## FEATURES

- ✓ Perform circumferential inspections on subsea assets from 30mm (1.2in) diameter.
- ✓ Conduct longitudinal inspections on assets from 30mm (1.2in) diameter.
- ✓ Powered by Eddyfi Gekko & Amigo2.
- ✓ Lightweight and low-profile design, perfect for tight spaces.
- ✓ A dual-bar setup provides probe stability and superior scan accuracy.
- ✓ Magnetic wheels ensure adherence to the inspection surface.
- ✓ Accommodate up to 2 SPA or TOFD probes.
- ✓ Easily apply brakes to prevent slippage when not scanning.

## VISTA™ SPECIFICATIONS

NDT technology options	Alternating Current Field Measurement (ACFM) Subsea Phased Array (SPA) Time-of-Flight Diffraction (TOFD)
Deployment method	Hand scanning by diver
Dimensions (w × d × h)	420 × 202 × 130 mm (16.5 × 7.9 × 5.1 in)
Depth rating	Depth rating 300m (985ft) Umbilical Length 300m (985ft) (Bottle to Topside) Probe cable length 20m (65ft) (Probe to bottle)
Circumferential scanning	30 mm (1.2 in) to flat plate
Longitudinal scanning	30 mm (1.2 in) to flat plate
Weight in air	5 kg (11 lb)
Weight in sea water	4 kg (9 lb)
Temperature Operating	-20°C to + 45°C (-4°F to +113°F)

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