Application note



### **Customer need**

Single line scans are frequently stitched together to create corrosion maps. This may happen because a two-axis scanner is unavailable or sufficient space does not exist to



properly attach the larger scanner to the asset. Often, this stitching exercise is a cumbersome process that may delay delivery of the final report. The possibility of error is also increased by using an offline stitching process.

### **Customer solution**

By utilizing the Manual Indexing feature of Waygate Technologies' Mentor UT, these maps can be created in real time with a single-axis scanner. Operators simply set up the device as they would a two-axis scanner. After the first line scan of data is collected, the scanner is moved over to the beginning of the 2nd pass. This second line scan of data is collected and mapped in the proper location in real time.

### **Key features**

- Customizable Hand Scanning App on the Mentor UT provides a guided workflow to standardize and reduce time for calibration and set-up of inspection
- Touch screen operation for fast and easy interrogation
  of suspect areas
- DM Array probe optimized for pitting corrosion detection
  - Modular probe design for cost effective replacement
- Palm Scanner for consistent coupling pressure during scanning
  - Manual indexing for large area inspection scans

# Application

Inspection of assets subject to internal corrosion and erosive wall loss such as piping, storage tanks, and other critical assets; requiring mapping and visual display of remaining wall thickness. Hand-held encoded scanner with manual indexing for efficient corrosion inspections.

Waygate

a Baker Hughes business

Technologies

# Modality

Ultrasonic (Phased Array)

### Industry

Oil & Gas and Power Generation





Palm Flat Scanner with Single-Axis Encoder



Modular DM Probe

A, C and E scans, selectable measurements, and touch screen operation

### **Equipment used**

- Mentor UT Phased Array Flaw Detector P/N 100N3883
- DM Acoustic Module (5 MHZ x 1.5 mm) P/N DMARRAY\_ MOD1
- Probe Cable (3 m; Side Exit) P/N DMCABLE\_3M\_RT
- Palm Flat Scanner with Encoder P/N 0600176
- Encoder Adapter for Mentor UT P/N 0600185



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