

# THE FASTEST IN-DITCH PIPELINE INTEGRITY SOLUTION FOR SCC DEPTH MEASUREMENT

Enables measuring the depth of stress-corrosion cracking (SCC) thanks to TECA™ technology

The high-resolution Sharck probe, combined with a Reddy® portable instrument, is the fastest in-ditch pipeline integrity solution on the market. It enables measuring the depth of SCC thanks to TECA technology—the most advanced technology for ferrous materials, monitoring liftoff, managing permeability, and performing live compensation. This new, high-definition probe can position and size SCC clusters. It also enables you to discriminate between most cracking branches and to size their depth even through coatings. All this is performed automatically, effectively removing most operator dependence.

#### **HIGH-RESOLUTION TECA**

15 times faster than magnetic particle testing, with the added value of providing full defect mapping and sentencing.

### BENEFITS AND FEATURES

Simultaneous crack detection and actual depth sizing

Fast — up to 600 mm/s (24 in/s)

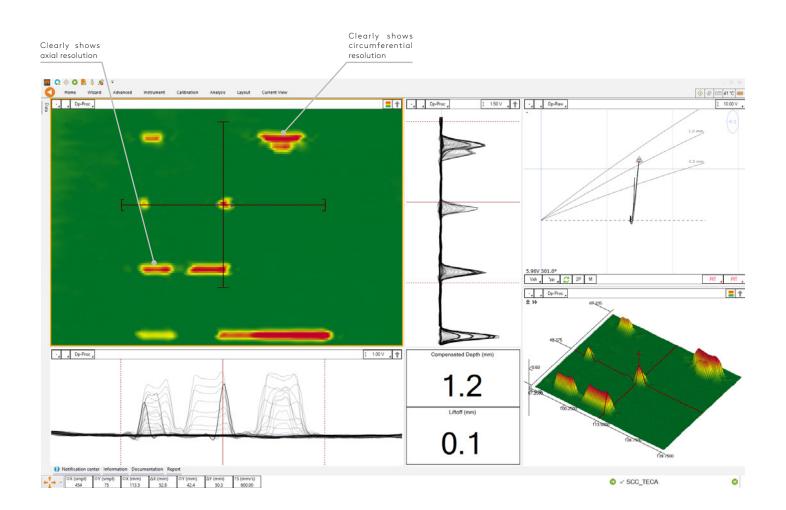
High-resolution tangential eddy current array (TECA) technology\*

Single-pass detection and depth measurement of short, shallow cracks such as stress-corrosion cracking (SCC) clusters

Conformable semi-flexible design compatible with a wide range of pipe diameters (254–1220 mm [10–48 in])

Tailored computerized tools for rapid SCC depth sizing and characterization

\* Patent pending



# **PERFORMANCE**

| ITEM   | DESCRIPTION                                  | NOTES  |
|--|--|--|
| Minimum detectable longitudinal crack length | 2 mm (0.080 in)                              | May vary according to surface conditions, liftoff, etc.            |
| Minimum detectable longitudinal crack depth  | 0.25 mm (0.010 in)                           |  |
| Maximum measurable crack depth               | Typically 3 mm (0.120 in) with good accuracy | Can detect deeper cracks—system yields 3 mm+ (0.118 in+) results   |
| Depth sizing accuracy                        | ±10 %  | The presence of corrosion may affect accuracy                      |
| Scan speed                                   | Up to 600 mm/s (24 in/s)                     | With full data recording   |
| Liftoff tolerance                            | Up to 2 mm (0.08 in)                         | Non-conductive coatings and paints, monitoring and auto-correction |
| Materials                                    | X52 grade steel                              | X56, X60, and more grades to be supported                          |

# **SPECIFICATIONS**

| ITEM                            | DESCRIPTION                        |
|---------------------------------|------------------------------------|
| Casing                          | Semi-flexible and conformable      |
| Coverage                        | 71 mm (2.8 in)                     |
| Minimum channel requirement     | 64                                 |
| Compatible pipe diameters (NPS) | 254-1220 mm (10-48 in)             |
| Frequency                       | Tuned and fixed at 100 kHz         |
| Encoder                         | Built-in, IP68 rated, 25 counts/mm |
| Cable                           | 5 m (16.4 ft)                      |

For Reddy: SHARCK-HR-1048-071-N05SR For Ectane®: SHARCK-HR-1048-071-N05SE





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