

RoCombo MFL-A / XT Service

In-line Combined Metal Loss and Geometry Analysis



Increased probability
of detection
(POD)



Increased probability
of identification
(POI)



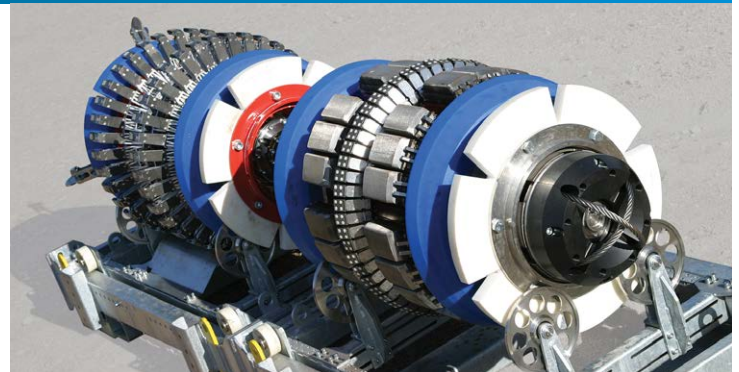
Superior
defect sizing
accuracy

Metal loss and geometry anomalies constitute an integrity threat to pipelines, particularly when coinciding. Therefore, a combined in-line inspection is a very efficient approach for a safe and reliable pipeline operation. ROSEN's RoCombo MFL-A/XT offers the possibility to investigate pipelines for metal loss and geometry anomalies in only one inspection run.

Solution

The RoCombo MFL-A/XT includes not only a Magnetic Flux Leakage unit but also a combination of mechanical calipers with an electronic measurement system based on the Eddy Current principle. This innovative combination enables the RoCombo to check for both, metal loss and geometry anomalies in only one inspection run. Unique magnet and sensor designs ensure high sensitivity and precision for the detection of corrosion, erosion, gouging and a huge variety of other metal loss features.

The tool measures depth, profile and contour of geometric features, allowing a stress/strain based integrity assessment. XYZ mapping coordinates for advanced integrity management is available optionally.



Benefits

- High resolution tri-axial magnetic field analysis ensuring accurate and precise feature classification & sizing in accordance with API and POF regulations
- High-precision geometry mapping and dent sizing using contour following sensor technology even at tough operational conditions
- Accurate discrete stress and strain gridding derived from high-resolution raw inspection data
- Lifetime integrity management supported by full recording of the complete raw inspection data
- Largest tool fleet on the market ensuring global tool availability and flexibility
- Captures the geometric profile and metal loss information required for advanced integrity assessment of deformations, including those with coincident metal loss, for example in compliance with API 1183 Level 3
- High-quality service with certified processes (API 1163), personnel qualification (ASNT) and equipment (CE, ATEX)