

AUTOMATED CRAWLER

Automated RT Crawler Services

MISTRAS' Automated Radiographic Testing (RT) Crawler Services utilize a new, nondestructive, digital radiography (DR) robotic device that detects corrosion under insulation (CUI) and internal corrosion on pipeline walls in regions that previously have been challenging to monitor or altogether inaccessible. The system utilizes a proprietary design that can be adapted to be used on pipes of different diameters and lengths, which enables MISTRAS technicians to offer real-time, precise, and high-quality insight into your pipe's corrosive conditions.

MISTRAS can use both Gamma rays and x-rays with the crawler, and can control it either

wirelessly or attached to an umbilical cable. Depending on the situational application of the crawler, it can be constructed and deployed with a state-of-the-art CMOS linear detector, a field array sensor, or a fluoroscopic imager for through-wall or tangential corrosion inspection.

APPLICATIONS & CAPABILITIES

- Compatible with any above-ground, horizontal pipeline that is subject to corrosion, particularly in the oil, gas, and water industries. Adaptable to pipes 8" to 42"
- Can detect small defects (.031")
- High production speed

BENEFITS

- Able to capture images in previously unavailable conditions
- Real-time data and condition monitoring
- Excellent substitute in lieu of in-line inspection
- Non-intrusive application allows for in-service inspection
- Detection of easily missed inconsistencies, such as shallow pits or moisture content

RESULTS

The Automated RT Crawler was deployed on a water-filled 12" .560 spiral-wrapped pipeline in Prudhoe Bay. Monitoring at a rate of 1.5 minutes per foot, the system detected defects as small as 0.031".

Utilized on an 8" spiral-wrapped sea water line with partial methanol and water levels at low points, the system achieved a scanning rate of three feet per minute with excellent image quality.

FEATURES

- X-ray and Gamma ray utilization
- Various sensor options available
- Wireless and umbilical operation
- Tangential and through-wall corrosion inspecting
- Proprietary design adjustable to many situations

CONTACT INFORMATION:

For more information on MISTRAS' Automated RT Crawler system, please call MISTRAS headquarters at (609) 716-4000.



Easily deployable on small pipelines

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