Model 6410 Continuous Pipe Scanner

Scanner on site in Prudhoe Bay, Alaska

Overview

To respond to the metal integrity evaluation on the Alaskan Oil Pipeline, in the summer of 2006, WesDyne NDE Products & Technology constructed a custom scanner to increase throughput for automated ultrasonic inspections.

The required inspection involved scanning the lower quadrant of a 34” diameter pipe for the presence of corrosion. The scanner was designed to allow for an inspection of the 60 foot distance between the Vertical Support Members without operator intervention.

The modularity of the scanner and drive components allows for a high degree of flexibility. The design team went from concept formulation to scanning pipe in the field in only 3 weeks!

WESDYNE INTERNATIONAL
A Westinghouse Electric Company

20 International Drive Windsor, CT 06095 USA
Web: www.amdataproducts.com Phone: 860-731-1683

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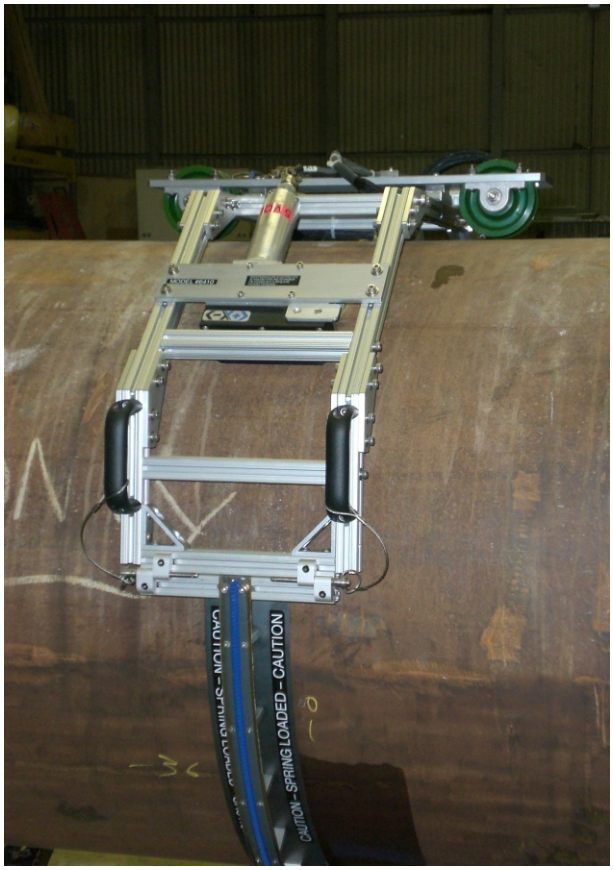
Features

- Scanner design allows it to be driven on piping that crosses over water or other limited access areas without the need to build scaffolding
- Longer scans save time by not having to “stitch” results together
- The 6410 allows fast setup and tear down time
- High stability design
- Excellent magnetic traction force
- Scanner is capable of deploying other inspection sensors
- Scanner shown configured for 180 degree circumferential scan, but may be configured for complete 360 degree scans
- Optional ultrasonic proximity sensors, with alarm, to avoid collisions with structures or personnel
- Local joystick at scanner to allow for direct control
- Optional inclinometers for steering control
- Up to 30 inches/second scan velocity
- Optional ultrasonic couplant containment system to alleviate environmental concerns

Minimum required equipment to operate the 6410 Scanner – AMDATA IntraSpect™ imaging system with MCS- 1002 or IMC series scan control subsystem, 2 - axis joystick, and cabling.



Scanner on mock-up in Alaska

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