

ELSCAN™ Pipe and Elbow Scanner

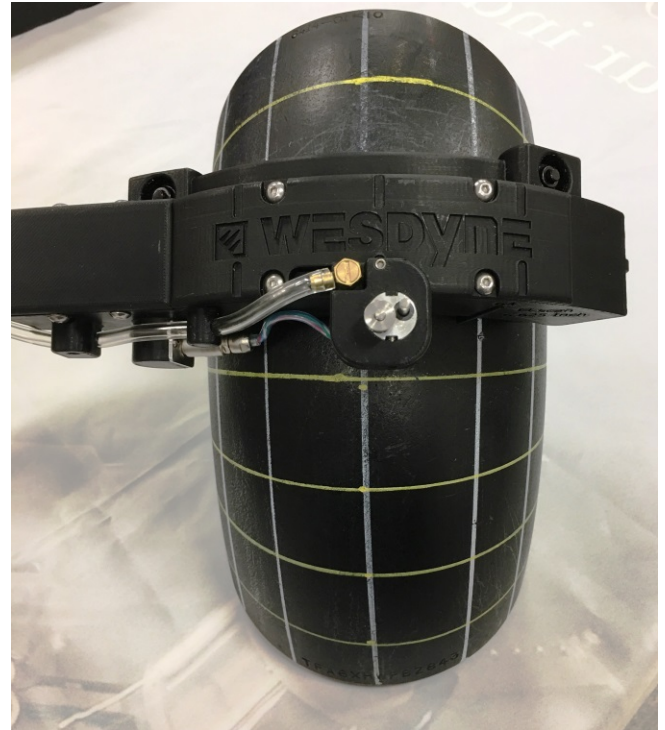
Background

Governing agencies and committees specify that certain critical components need to be inspected in the gas, oil, fossil pulp & paper marine and nuclear industries. For many years, WesDyne has developed different techniques and systems to help assist these industries with their respective inspection processes.

Spot inspections and elbow and pipe scans are common tasks in these industries. The ELSCAN™ is a lightweight, compact manual scanner which can be a valuable tool in assisting with these types of inspections or developing Ultrasonic Testing (UT).

Description

The AMDATA ELSCAN™ manual scanner is a dual axis scanner designed for semi-automated scans of straight pipe and pipe elbows from 4.0 inches to 42 inch. The scanner employs a multi-element or phased array ultrasonic transducer to collect high resolution thickness measurements on elbow pipe. Adjustable magnets provide active contact to the inspection material. With two encoded axes, the scanner can inspect any portion of a pipe elbow. The data acquisition system can be set up to scan any portion of or all of a pipe elbow.



Scanner on elbow extrados



Scanner on elbow intrados

EL_{SCAN}TM Pipe and Elbow Scanner

Physical Characteristics

- Scanner weight: < 2.0 pounds
- Minimum pipe diameter: 4.0 inches OD
- Maximum pipe diameter: 42 inches OD

Corrosion Resistance

- The scanner is manufactured from: Urethane.
- The scanner is designed to be splash proof.

Environment

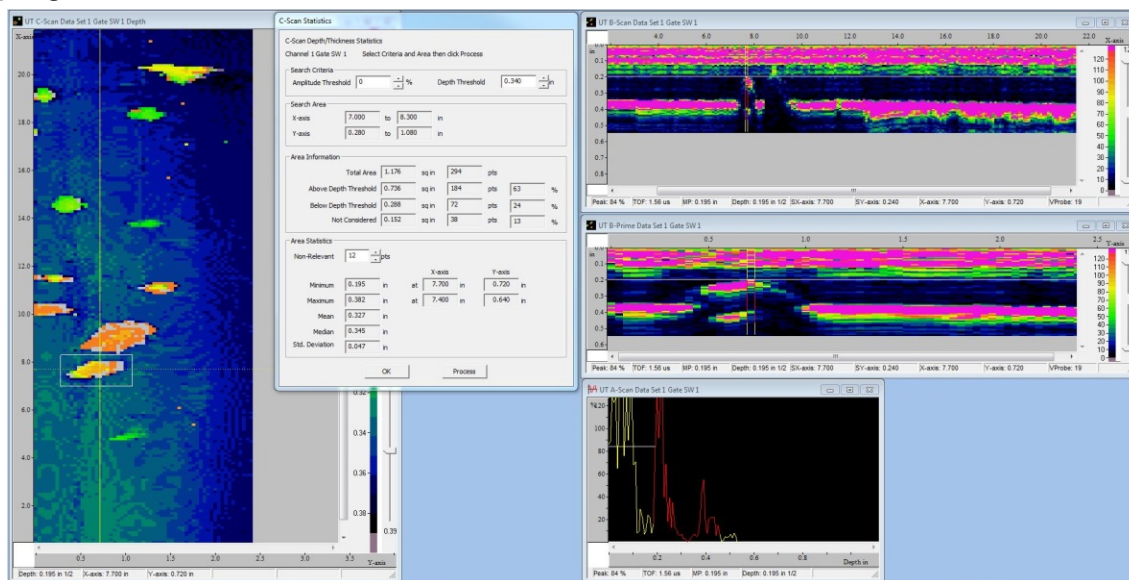
- Continuous operation at 0 - 50°C (32 to 120°F)
- Resists dirt, dust, and water splash.

Available Kits

- Single scanner body with phased array probe, portable FlowMaster couplant pump (customer chooses pipe diameter)
- Three scanner bodies with phased array probe, portable FlowMaster couplant pump (customer chooses pipe diameter) Probe is interchangeable between scanner bodies.
- Five scanner bodies with phased array probe, portable FlowMaster couplant pump (customer chooses pipe diameter) Probe is interchangeable between scanner bodies.

Recommended Options

- Calibration standard (customer must indicate pipe diameter and material)
- Shipping case



IntraSpect™ C-Scan statistics analysis on pipe elbow quadrants