HUNTER
ADVANCED MAGNETIC ADHESION NDT CRAWLER

A PORTABLE, MODULAR AND AFFORDABLE MAGNETIC NDT CRAWLER

Hunter is a modular remote access crawler designed for cost-effective NDT ultrasonic imaging of ferromagnetic structures such as storage tanks, pressure vessels, large diameter pipes and ship hulls without the need for rope access; thus eliminating potential risks associated with manual inspections specifically in hazardous or difficult to access terrains.

PACKAGES

TOFD WELD INSPECTION
- Full volumetric coverage for defect detection in welds.
- Able to measure ‘through-wall’ extent of defects.
- Use of water irrigated TOFD probes ensures reliable weld inspection.

Key Benefits:
Provides fast, proven and cost-effective inspection.

ULTRASONIC B-SCAN (THICKNESS MEASUREMENT)
- Provides thickness measurement readings every 1mm or as specified by the user.
- TR probe (Dual Crystal) for good near surface resolution.
- Provides a cross-sectional view of readings of the remaining wall of the inspected surface.

Key Benefits:
Provides more data than the random sampling.

ULTRASONIC CORROSION MAPPING
- Measures the extent of corrosion.
- Use of water irrigated TR probe (Dual Crystal) provides optimum UT performance.
- Provides 2-D plot of the corroded area; optional coarse scan for high speed screening.

Key Benefits:
Visual images of the inspected area (corrosion map) available for reporting.

Contact us or request a quote on: +44 (0) 1223 893 209 enquiries@innotecuk.com
KEY BENEFITS

EASE OF USE AND DEPLOYMENT

• Hunter's intuitive user interface allows it to be deployed and controlled by a single operator with ease.
• It only takes a few minutes to attach/detach the inspection packages (TOFD, B-SCAN, and Corrosion mapping).

FREQUENT COST EFFECTIVE INSPECTION

• Hunter's unique advantage is its ability to conduct both statutory inspection and Risk Based Inspection (RBI), guaranteeing cost savings for the asset owners.
• Ensures cost-effective asset management due to low overall cost of inspection.

PROVIDES CREDIBLE DATA

• Hunter significantly improves the quality of data collected as it moves over inspection surfaces, providing auditable results with the elimination of human error.
• Its ability to continuously record NDT signals ensures instant monitoring of signals in real-time by the operator.

TECHNICAL SPECIFICATIONS

Technical specification of the crawler only

• Dimensions: 410mm x 470mm x 200mm (L x W x H)
• Adhesion: Magnetic wheels (Neodymium)
• Payload: 100Kg
• Drive: 4 Off, 24V DC
• Wheels: High Wear resistant non-slip rubber coating
• Speed: 150mm/s max
• Umbilical cable: 30m
• Pumping system: 30m height
• Power supply: 110 AC-230AC, <500W

Technical specification of NDT system application

• Probes: Dual/single crystal probes from 1 to 10MHz
• Transmitting pulses voltage: Up to 200 Volts
• Digitizer: 8bits at 100 MSPS
• Filters: 10/5/2.5 MHz broadband
• High Pass Filters (-3dB): 0.25, 0.5, 0.75, 1.0, 2.5, 5, 10MHz
• Low Pass Filters (-3dB): 1, 2.5, 5.0, 7.5, 10, 15, 20, 30 MHz
• Programmable gain: 0 to 100dB's
• Visualisation: A-scan, B-scan, C-scan
• Application (Typical): TOFD, B-SCAN, Corrosion Mapping

CONTACT US FOR MORE INFORMATION

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