



Non-Destructive Inspection of Ropes at Heavy Lifting Installations Offshore and Onshore

- High inspection accuracy and sensitivity
- Assessment of rope residual strength
- Inspection of large diameter ropes
- Robust equipment

Wire ropes are used at heavy offshore cranes and need periodical inspection to provide safe operation. Magnetic rope testing (MRT) enables reasonably extend rope life, as premature discard of wire rope is wasteful and costly, or timely discard rope to prevent accidents.

Equipment for MRT

Dual function instruments INTROS[®], designed for magnetic rope testing, is suitable for stranded, spiral, half-locked, full-locked ropes made from bright and galvanized wire, with fiber or steel core. It meets requirements of ASTM E1571, IMCA SEL 022, M 194; SEL 023, M 197. INTROS[®] consists of a basic unit and magnetic head connected with a cable, normally 5 or 8 m in length. INTROS[®] can inspect ropes with diameter from 6 to more than 150 mm at speed up to 2 m/s. The instrument measures loss of metallic area (LMA) in percentage and reveals local faults (LF) - outer and inner broken wires, corrosion pits that degrade the integrity of the rope.



MRT at vessel at deep water

Services for MRT

Intron Plus provides wire rope inspection offshore and onshore

Our services include the following:

- MRT of ropes during production or installation
- MRT during rope operation offshore and onshore
- Assessment of residual rope life

Detailed test report results each inspection, and contains recommendations as for future use of rope. Assessment of residual rope life is provided under request.



Bremerhaven, Germany.
MRT at vessel installation



Spooling 96 mm rope for MRT in Labuan, Malaysia

INTRON PLUS also produces equipment and provides services for non-destructive inspection of steel plates and steel cord conveyor belts.



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