

RopeQ Magnetic Rope Inspection



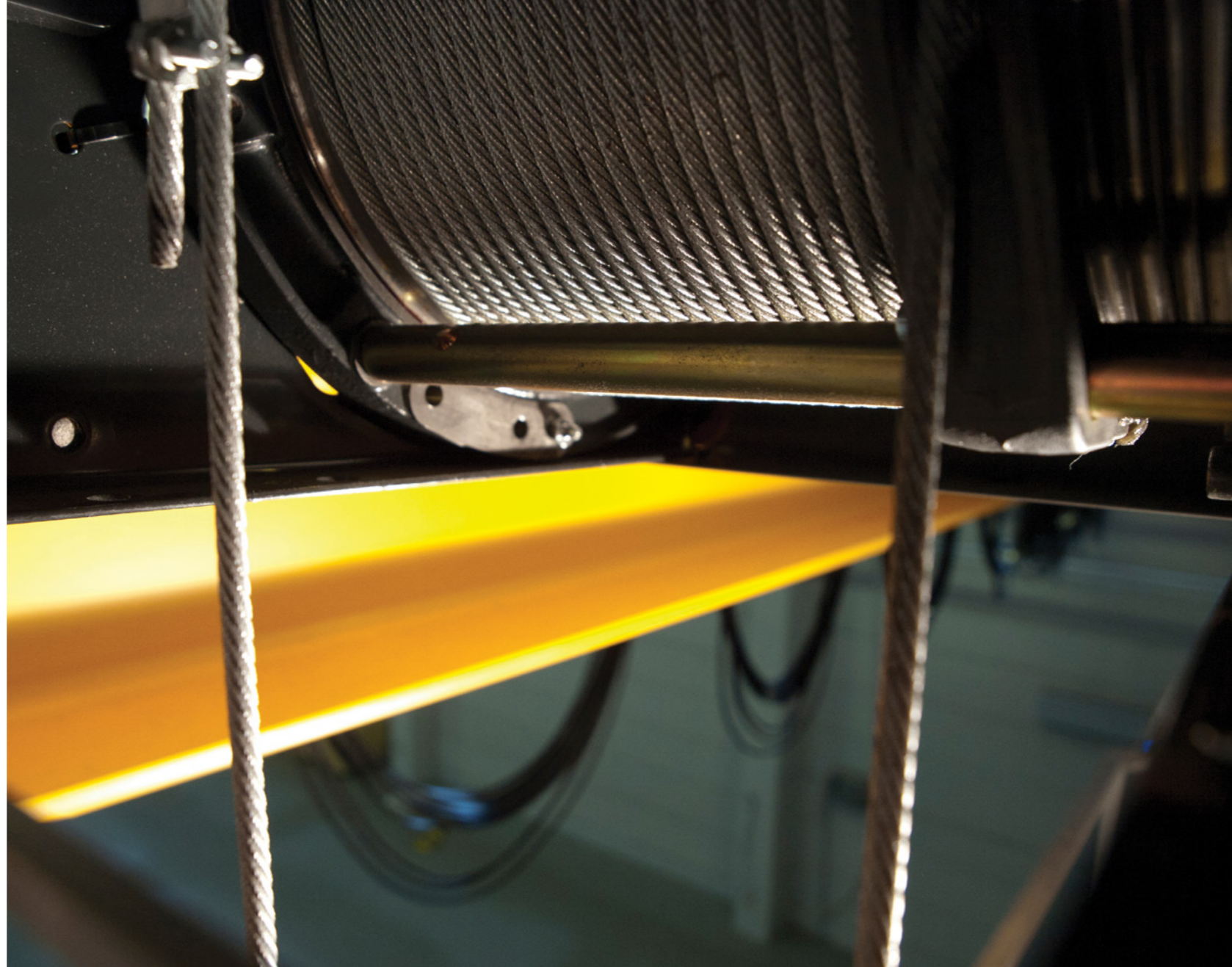
Inspecting what you cannot see

Wire ropes are one of the most critical parts of your wire rope hoists, and they can contain hundreds of individual strands. Broken strands on the rope exterior can be found by visual inspections, but the condition of the core and inner wire strands cannot be seen.

To evaluate the safety of a wire rope, you need to know what's happening both on the outside and on the inside. That's why Konecranes offers the RopeQ Magnetic Rope Inspection.

Many wire rope structures start to wear from the inside out. A worn wire rope can be a major safety hazard and cause production losses. Why wait for a scheduled change when you can make decisions based on the actual condition of the rope?

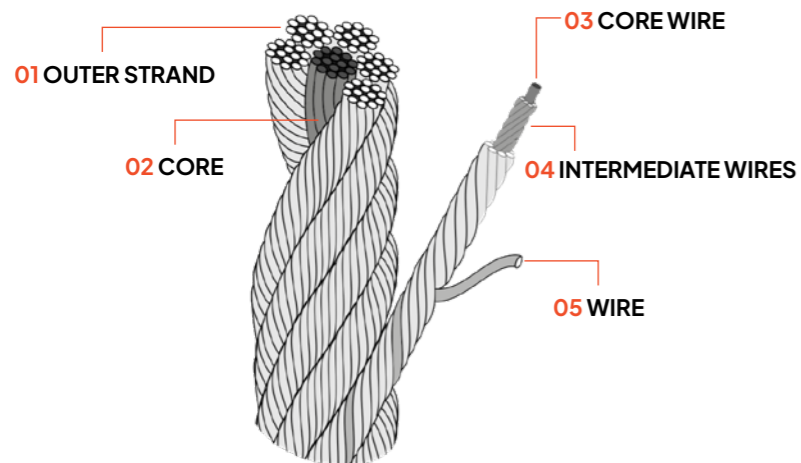
RopeQ assesses the condition of a wire rope based on a visual and magnetic inspection. The inspection utilizes magnetic-inductive leakage technology to provide accurate data of the interior of the rope and exterior condition. The thorough visual inspection can cover all rope reeving components and other elements that may affect rope life.



RopeQ and predictive maintenance

Predictive maintenance utilizes condition monitoring, advanced inspections and data analytics to predict the need for maintenance due to component wear or fatigue. Incorporating predictive maintenance elements—like the RopeQ Magnetic Rope Inspection—as part of a Konecranes service program can further optimize maintenance activities, reduce unplanned downtime and improve equipment safety, productivity and lifecycle value.

Regular magnetic rope inspections can be a predictor of wire rope fatigue failure. In addition, equipment usage data from TRUCONNECT Remote Monitoring can be used as part of an overall rope life study, analyzing usage, designed duty class and rope reeving/sheave configuration.



RopeQ is recommended for any wire rope application and is particularly useful in the following situations:


- Process cranes in constant use.
- Cranes that are used only occasionally.
- Ropes that are particularly hard to inspect visually.
- Post-accident inspections.

➔ Benefits of a RopeQ Magnetic Rope Inspection

- Improved safety from detecting non-visible defects.
- Optimized wire rope change interval.
- Repeatable and reliable results.
- A report that is easy to read and interpret, completed with recommendations for action.
- Helps fulfill statutory requirements for occasional-use equipment that has been idle.



Konecranes is a global leader in material handling solutions, serving a broad range of customers across multiple industries. We consistently set the industry benchmark, from everyday improvements to the breakthroughs at moments that matter most, because we know we can always find a safer, more productive and sustainable way. That's why, with around 16,600 professionals in over 50 countries, Konecranes is trusted every day to lift, handle and move what the world needs. In 2023, Group sales totaled EUR 4.0 billion. Konecranes shares are listed on Nasdaq Helsinki (symbol: KCR).

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