

EM Instruments can provide reliable data on the internal and external deterioration of ferromagnetic steel wire rope caused by corrosion, wear and various changes of rope structure. This includes locked coil ropes and plastic coated ropes.

EM Instruments simultaneously indicate Local Fault (LF) patterns and measure Loss of Metallic Cross-sectional Area (LMA). Broken wires, lay distortion, inter-strand nicking, external wear or corrosion pitting causes LF. LMA are caused by corrosion, broken wires, external wear and inter-strand nicking.

## SERVICE SAFETY RELIABILITY

For general inquiries, please email: info@focusonndt.com. Toll-Free: 1.877.862.1638

#### **ALBERTA**

817-15th Avenue SW, Unit 702 Calgary, AB T2R 0H8

- т. 403.479.4341
- F. 403.500.1231

Suite #192-2301 Premier Way Sherwood Park, Edmonton, AB T8H 2K8

- T. 780.449.1638
- F. 780.449.1640

#### **ONTARIO**

821 Vickers St North Thunder Bay, ON P7C 4B9

- T. 807.623.1916
- F. 807.684.0948

### **BRITISH COLUMBIA**

38-1839 1st Ave Prince George, BC V2L 2Y8

- т. 250.614.3696
- F. 250.564.3697



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## ELECTRO-MAGNETIC (EM) WIRE ROPE TESTING

Accurate, Objective and Quantifiable





## Combined LF and LMA information can be used to assist with:

- Determining when a steel wire rope has reached the end of its safe working life and should be removed.
- Estimating the Loss of Breaking Strength (LBS) of a steel wire rope.

# Portable EM Instruments allow steel wire rope testing on site. The instruments consist of two inter-connected components:

- A Console which displays the test results.
- A Test Head through which the rope travels.

## **PREVENTATIVE SAFETY**

To ensure safety, it's critical that steel wire rope be regularly non-destructively tested using an EM Instrument and augmented by a visual inspection of sections of the steel wire rope where significant deterioration is indicated. This two-fold information can be used to accurately determine the complete condition of the steel wire rope and track its rate of deterioration so that a valid assessment can be made for preventative measures to slow down the rate of deterioration or to determine replacement.

