Hauling Rope Condition Monitoring System for Peak Tramway System

"Problem"



- Visual inspection
- Low defect detection efficiency



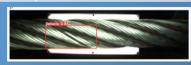
- Human involvement
- Service interruption for condition scanning
- Higher maintenance cost



Uniform magnetic field

"Solutions"

1. Computer Visual Identification



- Replacing bear eyes inspection
- Fast scanning of outer rope surface
- 2. Magnetic Rope Testing (MRT)
- Trend prediction
- Real time monitoring
- Inner rope defects detection



3. Smart Detection with Web-based Computer for Instant Alert

EMSD E

*hkpc

- Equipped with on-board microcomputer
- Displaying defect location on user 's workstation



"Expected Outcome"

MAGNETIZE

Chaotic magnetic field

Higher Accuracy, Stronger Detection & Faster Response, Tying Solutions Together.

A <u>real time continuous</u> monitoring system using <u>magnetic detection</u> and <u>image processing</u> technology for analysis of health conditions of the entire hauling rope