

# Introduction to Roping Services

**NORTHERN**  **STRANDS**  
GROUP OF COMPANIES

# Our Goal

To continue the ability to be the best full service provider of wire ropes, attachments, equipment, and services.

**Truly Mine Hoisting Solutions**



# Health & Safety

## Primary Objectives

Zero Harm

Risk Management

Compliance

Education & Training

Continuous Improvement

Management Commitment



Collect. Verify. Connect.



# Quality

**ISO 9001 Certified**  
(Quality Management)

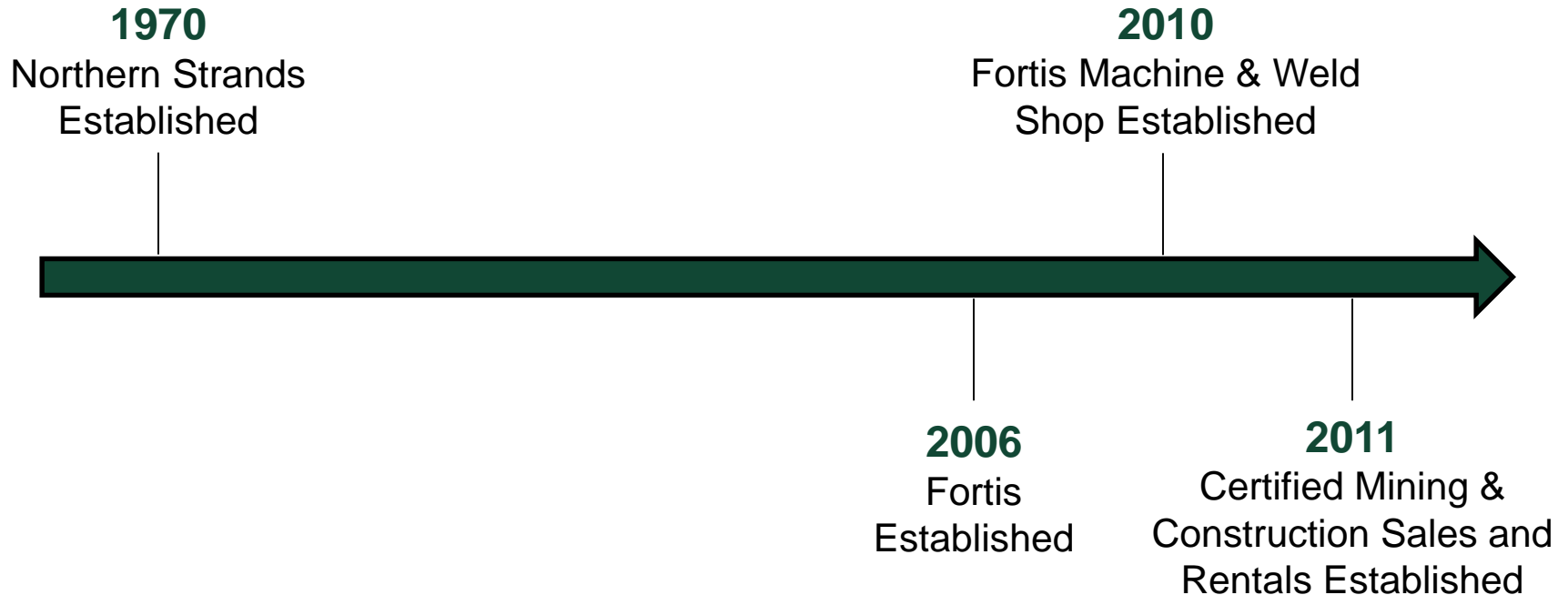
**ISO 14001 Certified**  
(Environmental Management)

**OHSAS 18001 Certified**  
(Safety Management)



# Our History

## *Strategic Growth and Comprehensive Solutions*



# Wire Ropes

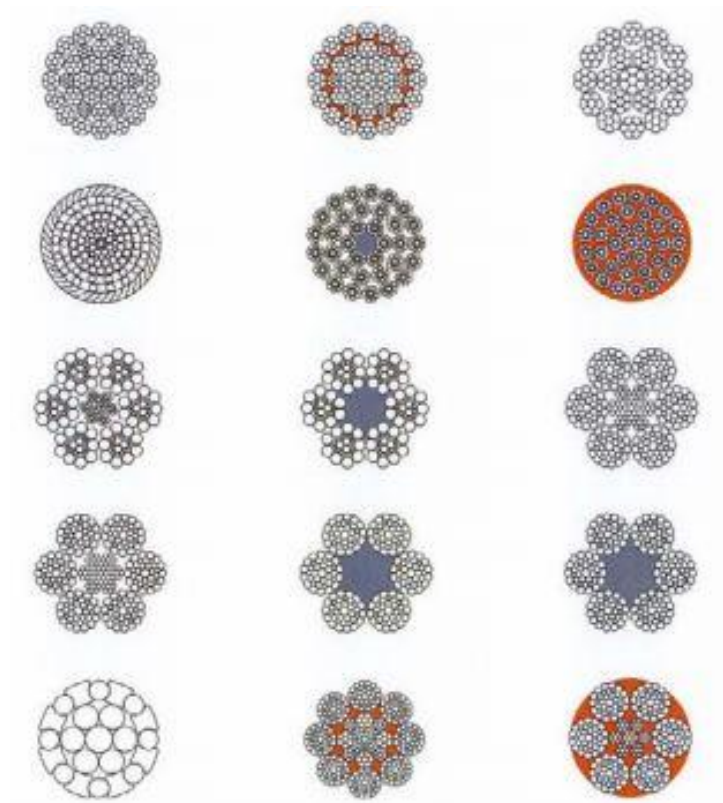
All Mining Ropes including Sinking Ropes,  
Drum & Friction Hoist Ropes, Balance Ropes,  
and Guide & Rub Ropes

Designed to customer specifications

Reliable products from high quality factories



# Wire Ropes



# Attachments

Hoist Rope, Balance Rope, Guide Rope, Sinking,  
and Installation Equipment Attachments

Custom built to a client's unique needs

Becorit Line of Friction Materials:

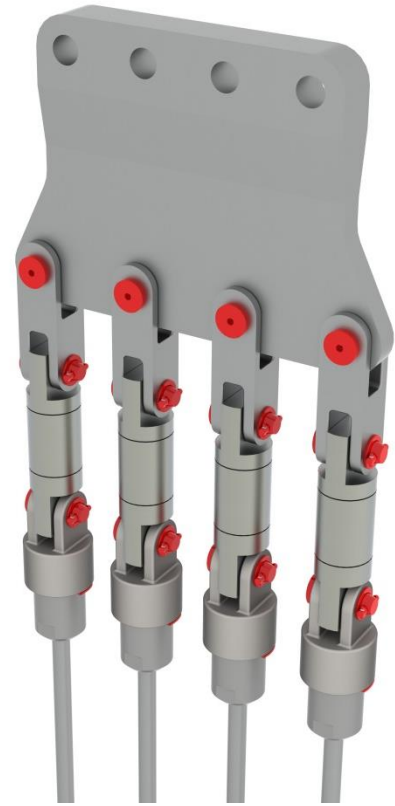
Hoist Drum Liners

Deflection Sheave Liners

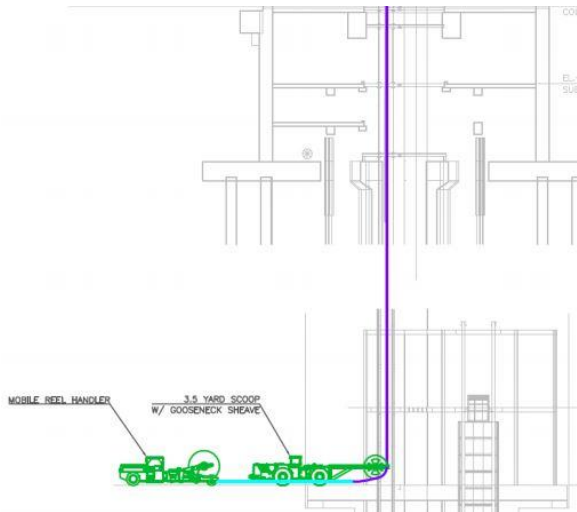
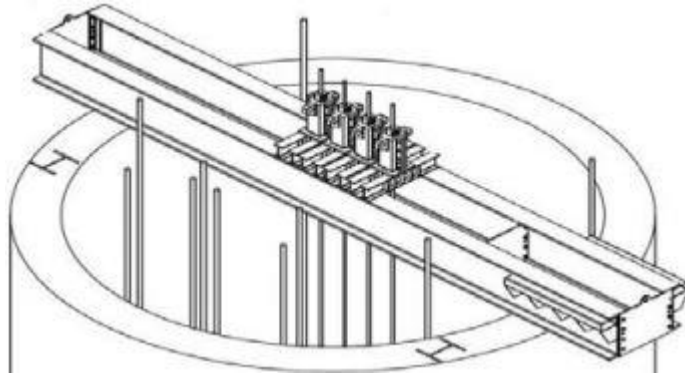
Hoist Brake Material



# Attachments



# Procedures & Technical Writing



Rev.01 Procedure Review

CUSTOMER	X	PROJECT NO.	2
PROJECT	Y	DATE	Today
FORTIS JOB NO.	900791	REV	01

## 4. Work Sequence Overview

- 4.1 Lower rope reel handing equipment to potash level via south shaft
- 4.2 Lower all guide ropes, Koepe hoist balance ropes, Koepe hoist head ropes, and required spares to potash level via the south shaft and stage in order and orientation for installation
- 4.3 Rope up Blair hoist (under tension)
- 4.4 Install (4) guide ropes in the Blair hoist compartment utilizing the Blair hoist
- 4.5 Install east and west lead sheaves at compensating and deflection sheave level (Utilized to deflect the Blair hoist ropes into the east and west skip compartments)
- 4.6 Install (4) guide ropes in the west skip compartment utilizing the west Blair hoist rope
- 4.7 Install and chair (4) balance ropes into the west skip compartment utilizing the west Blair hoist rope
- 4.8 Install and chair the west skip in the headframe utilizing the west Blair hoist rope
- 4.9 Attach west balance rope ends to bottom of chaired west skip
- 4.10 Remove west Blair hoist rope from sheave and wrap around drum securely
- 4.11 Reeve east Blair hoist rope into the east skip compartment
- 4.12 Install (4) guide ropes in the east skip compartment utilizing the east Blair hoist rope
- 4.13 Install and chair east skip below potash level
- 4.14 Attach (4) balance ropes to the bottom of the chaired east skip
- 4.15 Install (6) head ropes in east compartment up and over Koepe hoist drum and attach to drawbar of west skip
- 4.16 Attach lower head rope ends to top of east skip chaired below potash level
- 4.17 Unchair west skip at surface and east skip underground
- 4.18 Raise west skip and unchair the balance ropes in the subcollar
- 4.19 Reeve east Blair hoist rope over compensating sheave and back to drum and socket
- 4.20 Remove lead sheaves at deflection sheave floor
- 4.21 Reeve both east and west Blair hoist ropes over compensating sheaves and down to collar
- 4.22 Install service cage into Blair hoist compartment

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ISO 9001 & 14001 and OHSAS 18001 Certified Company  
803 57th Street East Saskatoon, SK S7N 5Z1 306.242.4477 • F 306.242.5715



# Rope and Conveyance Installation



# Attachment Recertification and Testing

**24 hour** turnaround available



# Certified Mining & Construction Sales & Rentals



# Thank You

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[www.northernstrands.com](http://www.northernstrands.com)

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