

Wire rope replacement

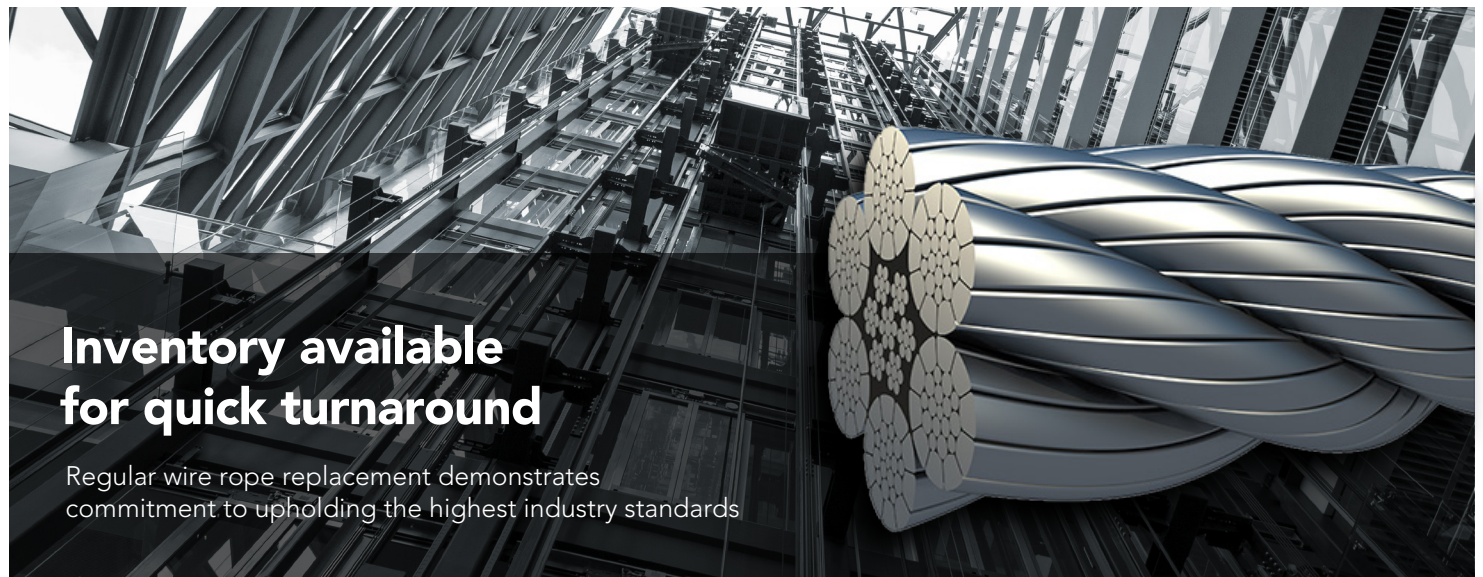
Ensuring continuous performance, safety and longevity



The wire rope is the heart of elevator systems connecting the elevator car to the counterweight. Regular maintenance, including proper lubrication and timely inspections, along with scheduled replacement, ensure the safety, reliability and longevity of your elevator system. This also demonstrates your adherence to industry standards and regulations.

SIGMA RECOMMENDED ROPE PROGRAM

Preventative Maintenance> Routine Inspections and Lubrication
Qualified Personnel> Experienced Technicians for Repairs and Replacements
Detailed Records> Documentation of Wire Rope History and Maintenance



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MAIN WIRE ROPE Critical to elevator operation

What function does the wire rope play?

The rope connects the elevator car and the counterweight, allowing vertical movement through the rotation of the sheave.

Why do wire ropes need to be changed?

Ensuring Safety: Regular replacement of the wire rope is crucial to prevent slipping and sudden rope failure. Please consult with authorized technicians if replacement is needed.

ENHANCING DURABILITY

Ensuring adequate lubrication and monitoring signs of wear and tear, can help ensure wire ropes can experience their maximum life.

MONITORING YOUR WIRE ROPES FOR SIGNS OF WEAR AND TEAR

Inadequate lubrication accelerates rope wear, necessitating earlier replacement.

Immediate replacement is required upon observing signs of wear or damage to the rope surface.



-> **Normal wear**
-> **Abrasive wear**
-> **Mechanical damage**
-> **Rotational damage**
-> **Heat damage**
-> **Bending fatigue**

Risk of Delayed Replacement

Delaying rope replacement can lead to safety issues, sheave wear, slippage, and shortened lifespan of the traction machine.

Routine Inspection Required

Regular inspection for wear, corrosion, and lubrication is essential to determine the replacement timing.

Cost Savings

Regular rope replacement saves additional repair costs by avoiding further equipment damage and extends the elevator's lifespan.