

Main sheave and beam pulley replacement



Protecting passengers with vigilant maintenance

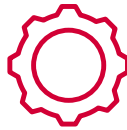


The elevator sheave plays a critical role in safely lifting the car and counterweight. Regular inspection and proactive maintenance are essential to prevent hazards and ensure the smooth operation of the elevator system.



PREVENTATIVE MAINTENANCE

Regular inspections and proactive replacement of sheaves and beam pulleys can extend the elevator's lifespan and contribute to reliable operation.



OPTIMIZED PERFORMANCE

Properly functioning sheaves and beam pulleys contribute to the smooth and efficient operation of the elevator, providing a comfortable experience for passengers.



ENHANCED SAFETY

Maintaining these critical components helps prevent potential accidents and enhance the overall safety of the elevator system.

Immediate replacement available

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Sheave and beam pulley: Critical elevator components



What are sheaves and beam pulleys?

The sheave is a grooved pulley that transfers the driving force from the traction machine to the hoisting ropes, enabling the smooth and reliable vertical transportation of the elevator car and counterweight.

The beam pulley, which is connected to the main rope suspended from the elevator's main sheave, is used to align the balance between the car and the counterweight.

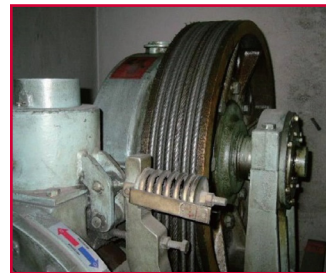
Why do sheaves and beam pulleys need to be replaced?

Diligent maintenance of the elevator sheave and beam pulley is crucial for ensuring the safety and reliability of the system. Proactive maintenance can prevent costly breakdowns and extend the sheave's lifespan, while adhering to the recommended maintenance protocols ensures regulatory compliance.

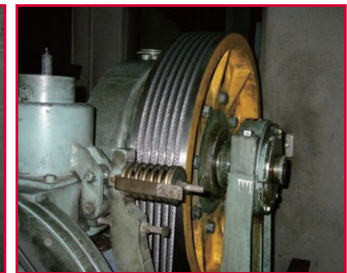


Sheave

Beam pulley



▲ Sheave: before replacement



▲ Sheave: after replacement

MANDATORY REPLACEMENT CRITERIA

Rope Height Reduction

If the rope height in the sheave is 3mm lower than the original positioning, the sheave must be replaced.

Rope Unevenness

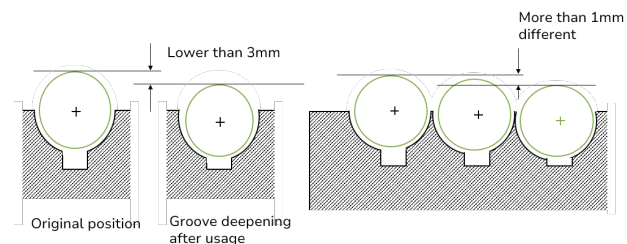
If the difference in height between the rope in any two sheave grooves exceeds 1mm, the sheave must be replaced.

Excessive Rope Creep

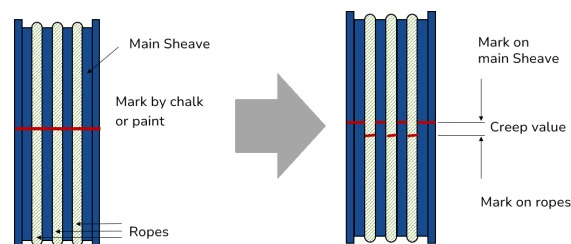
If rope creep (irreversible stretching of the rope over time) exceeds the specified limit, the sheave must be replaced as traction force is insufficient.

Allowable creep value specification

- 10 floors or fewer: 20mm
- 11 floors or more: 30mm



▲ Cross section of the rope in the groove of the sheave



▲ Diagram of rope creep showing running discrepancy

The lifespan of the sheave varies.
Please consult your authorized Sigma distributor for more information.