

# SKF Explorer sealed spherical roller bearings cut maintenance in gearless, direct drive elevators

## Benefits:

- high load carrying capacity
- low noise level
- more compact design
- less friction, lower operating temperatures
- reduced energy use
- reduced need for maintenance
- no relubrication needed

## Typical applications:

- gearless designs
- machine room less designs
- applications where compact designs are required

## SKF Explorer sealed spherical roller bearings enable higher speeds and loads in a more compact, low maintenance design

In high rise construction, space is always at a premium, and energy savings always a goal. So manufacturers of elevators are moving to direct drive, gearless designs that enable higher speeds and greater energy efficiency in a more compact solution. But new gearless designs also create a new challenge: with no gearbox and no gear oil, the open bearings supporting the gear shaft have to be regularly lubricated – a difficult and costly regimen. Not to mention, a potential safety hazard for workers accessing sheaves in difficult positions.

### Designed for heavy loads

The answer for many manufacturers is switching to SKF Explorer sealed spherical roller bearings.

Designed to accommodate very heavy radial and heavy axial loads in applications where misalignment or shaft

deflection can occur, these sealed bearings could have a service life as long as that of the elevator's drive system itself, 20 years or more depending on operating conditions. SKF Explorer sealed spherical roller bearings meet application requirements for heavy loads, low noise levels, effective lubrication, and protection against solid contaminants.

### More environmentally friendly

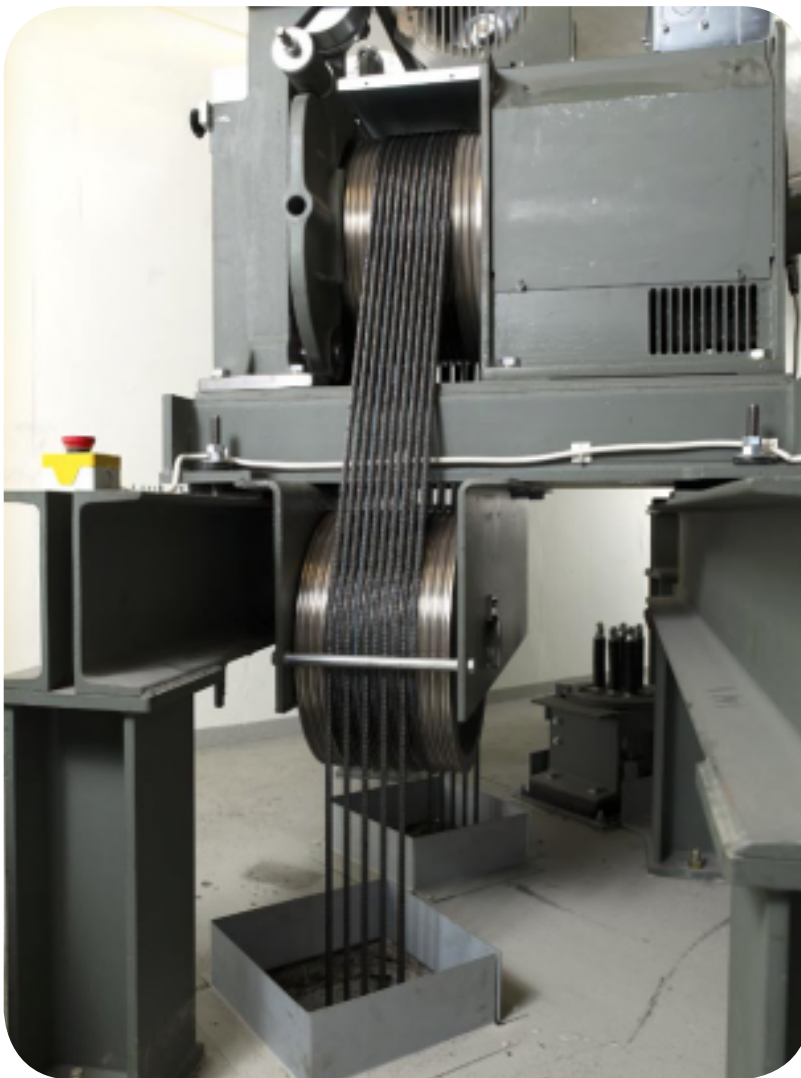
Switching to SKF sealed bearings also yields other important benefits. In addition to the downsizing of the total system, reductions in friction and energy consumption make the application more environmentally friendly. Sealed-for-life bearings also cut maintenance costs and improve worker safety by eliminating the need to relubricate bearings in hard-to-reach places.





## Applying SKF knowledge engineering to improve elevator performance

Drawing on decades of experience with elevator systems – industrial, commercial, municipal, and residential – SKF is helping manufacturers and maintenance providers improve reliability, safety and efficiency. Whatever your application goals, SKF solutions can help you achieve them.



### SKF Explorer sealed spherical roller bearings

- improved raceway surface finish increases lubricant effectiveness for a smoother, cooler running bearing
- proven double lip seals provide excellent protection
- higher surface hardness and dimensional stability at high temperatures
- factory filled, high quality grease
- self-guiding rollers enable lower operating temperature and improved operating conditions for the lubricant
- increased reliability and service life

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