



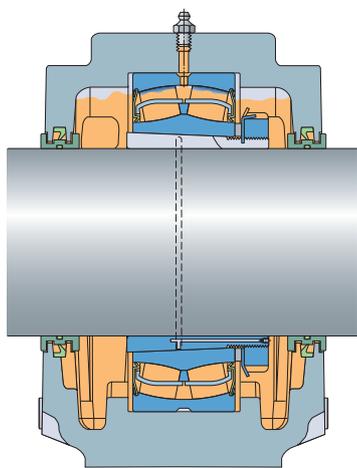
## Keep conveyors rolling longer for less costs

### Benefits

- Boost productivity
- Increase conveyor uptime
- Significantly increase the mean time between bearing failures
- Reduce maintenance and operating costs
- Reduce grease consumption

### Conveyor applications

- Head pulleys
- Tail pulleys
- Take-up pulleys
- Bend pulleys
- Vertical gravity take-up pulleys



Sealed SKF Explorer spherical roller bearing in an SKF SAF B22500 housing

### The three-barrier conveyor solution boosts uptime and cuts operating costs

Conveyors must endure dust, dirt, moisture, temperature extremes, and heavy loads. An SKF study showed that, in most cases, premature conveyor bearing failure is caused by contaminants and inadequate sealing.

Of course, when a conveyor goes down, so does productivity and profitability. Additionally, maintaining and repairing conveyors can be difficult and possibly dangerous. So, plants do what they can to protect conveyor bearings – usually by reinforcing the sealing protection with taconite seals, or re-greasing them frequently to purge contaminants. Both options drive up costs substantially. SKF has a much better solution.

### Increase bearing service life up to 300%

Designed to provide superior protection against contaminants, heavy loads, and shaft misalignment, the three-barrier conveyor solution from SKF can actually triple the mean time between failures. The solution consists of:

- Sealed SKF Explorer spherical roller bearings
- Adapter sleeves with oil injection grooves\*
- SKF SAF B22500 housings
- SKF PosiTrac Plus seals
- SKF LGEP 2 grease (SKF LGGB 2 biodegradable grease optional).

\*Available for 4.7/16 (size 26) and above. Contact SKF for more details and availability of inch series adapter sleeves, NSW sleeves and sizes up to 544.



### Three levels of sealing protection

Compared to conventional bearing arrangements, the conveyor solution can provide up to three times the sealing protection. Sealed SKF Explorer spherical roller bearings are lubricated and sealed in the factory, so there is little risk of contamination during assembly. The housing cavity is filled with grease and acts as another barrier seal. And SKF PosiTrac Plus seals guard against extremely fine contaminants, eliminating the need for costly alternatives. If needed, the bearing arrangement can also be re-lubricated.

### Reduced maintenance costs and demands

Because the SKF solution greatly reduces the need to purge contaminants through re-greasing, it can slash a plant's grease consumption by as much as 90%. Less re-greasing also means a plant can reallocate its maintenance resources. And when bearing mounting or dismounting is necessary, it's quick and easy.

The SKF Drive-up Method is recommended for mounting the bearings. The adapter sleeves with oil injection groove can greatly assist the mounting and dismounting of the bearings.



## Increase the return on your maintenance investment with SKF

The whole idea behind the SKF 360° Solution is to help you get more out of your plant machinery and equipment investment. This means lowering your maintenance costs, raising your productivity, or both! Here is an example of the SKF 360° Solution at work in the mining and mineral processing industry.

### SKF helps coal mine double conveyor bearing life and cut operating costs

#### The problem

An open cast coal mine running 155 miles (250km) of conveyors struggled with constant failures caused by contaminants entering open bearings. The conveyor transported materials to and from the mine 365 days a year, and had literally hundreds of bearings requiring huge quantities of grease for lubrication.

Along with soaring maintenance costs, the mine faced excessive lubrication and disposal expenses. Looking to cut operating costs and extend bearing replacement intervals to match other conveyor maintenance activities, the mine looked to SKF.

#### The SKF solution

SKF engineers suggested replacing the open bearings with sealed spherical roller bearings. Mine management agreed, and SKF installed the three-barrier solution consisting of sealed spherical roller bearings, housings filled with appropriate grease, and PosiTrac Plus labyrinth seals.

#### The results

Average bearing service life more than doubled from two years to more than four years, ultimately resulting in substantial savings on grease purchases and disposal costs, as well as less downtime and higher productivity. The life cycle extension also enabled the mine to reach its goal of matching bearing replacements with other maintenance activities, and freed up its maintenance team for other tasks.



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