



# SKF® solutions for increased conveyor system reliability, service life and safety

## Conveyor problems

Many factors combine to bring conveyor systems to a halt, bringing production to a stop as well. These range from heavy loads to harsh environments—hot, cold, wet, dry, dusty, and dirty—as well as lubrication issues and poor quality conveyor idlers.

## SKF solutions

SKF® provides cost-effective solutions for virtually all of the rotating components in today's conveyor systems. Each SKF component provides specific benefits which help improve reliability, extend service life, reduce downtime, and improve safety.

Any of the SKF components—or a combination of them—are drop-in replacements for your existing conveyor systems to help upgrade your levels of productivity, and ultimately help increase your operation's profitability.

## Benefits

- Reduces unplanned downtime
- Lowers maintenance and repair costs
- Drop-in replacement
- Enhances your investment in plant equipment with increased profitability and productivity
- Improves safety



## SKF conveyor solutions include:

### Bearings

- SKF Explorer class spherical roller bearings
- CARB® toroidal roller bearings
- Deep groove ball bearings for conveyor idlers with integral seals

### Mounted products

- Ball and roller units
- Split pillow blocks, SAF & SDAF extended range with Taconite and PosiTrac Plus seals
- SKF ConCentra bearing units
- Hydraulic assist adapter sleeves

### Seals

- Radial lip seals
- V-ring seals
- NILOS seals
- Speedi-Sleeve®

### Maintenance products

- Shaft and belt laser alignment tools
- Hydraulic assist mounting and dismounting tools
- Equipment rental

### Lubrication

- Automatic lubrication systems
- LGEP2 grease for head/tail and take-up pulleys
- LGGB2 green grease

## SKF Copperhead machinery fault detection

- Provides critical fault detection to head/tail pulleys, take-up pulleys, gearboxes, and motors
- Periodic and continuous monitoring of vibration and temperature
- Stand alone or incorporate in plant's automation system

## SKF Service

- Bearing inspection and rework service with warranties
- Complete mechanical and condition monitoring services
- Proactive and preventive maintenance programs

## SKF Documented Solutions Program (DSP)

DSP calculates ROI and justifies the investment in the SKF solution. Plant personnel input their operational data into the software. The DSP compares this data with the cost of the solution and the expected savings, and calculates the ROI.

The reverse side of this sheet provides a list of common problems in conveyors, their probable causes, and corrective SKF Solutions.





# SKF solutions for conveyors

Problem	Cause	SKF solution
Frequent bearing failure	Bearing overload	SKF Explorer/CARB® SKF Total Shaft Solution
	Inadequate lubrication	SYSTEM 24®/Multi-Point lubricator
	Improper installation	Hydraulic assist/SensorMount®
	Contamination	SKF Posi-Trac Plus seal SKF housing seals
	Misalignment	SKF laser alignment tools
Bearing turning on shaft	Incorrect mounting	Hydraulic nuts SensorMount SKF ConCentra
	Wrong shaft tolerance	SKF ConCentra
Excessive vibration	Cross-located bearings	SKF Total Shaft Solution
	Misalignment	SKF laser alignment tools
	Incorrect mounting	Hydraulic nuts/SensorMount
High bearing temperature	Too much/not enough lubricant	SYSTEM 24 Multi-Point lubricator
	Misalignment	SKF laser alignment tools
	Cross loading bearings	SKF Total Shaft Solution
Poor sealing	Worn seal/shaft	SKF seal combination
	Misalignment	SKF laser alignment tools
	Improper seal	SKF seals
Difficult installation/removal	Large size bearing	Hydraulic assist nut and sleeves SensorMount
Unplanned downtime	No monitoring	SKF Copperhead fault detection



**The SKF ConCentra unit roller** provides a nearly 360° fit on the shaft to eliminate fretting corrosion, prevent shaft damage and make bearing mounting and dismounting as easy as turning an Allen wrench.

**SKF lubrication systems** continuously feed grease to equipment in unsafe, hard-to-reach, and even ordinary locations where consistent lubrication is required.



**SKF Copperhead machinery fault detection** monitors equipment for abnormal vibration and temperature, providing early warning to plant personnel before expensive repairs and downtime result. In conveyors, SKF Copperhead can provide critical fault detection to head/tail pulleys, take-up pulleys, gearboxes, and motors.



**SKF hydraulic assist systems** safely, quickly and efficiently mount and dismount bearings, couplings, and other mechanical components. They improve the likelihood of correct bearing fitting for longer bearing service life and reduced maintenance requirements.



**For Conveyors, SKF Explorer deep groove ball bearings** are sealed and greased for life, extending service life and reliability and reducing maintenance costs.



**For more information about SKF products and solutions for the mining and mineral processing industries, contact your SKF Authorized Distributor or visit us at [www.skfusa.com](http://www.skfusa.com)**

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