



## Double the service life of screen bearings, improve safety, and reduce labour costs

### Benefits

- Longer service life
- Cooler running
- Reduces maintenance
- Extends maintenance intervals
- Reduces downtime
- Improves safety

### Typical applications

- Vibrating screens
- Grizzlies
- Feeders
- Impactors

### With SKF Explorer spherical roller bearings for vibrating applications



Operating conditions in vibrating screens can quickly overheat and destroy conventional bearings. The result is frequent shutdowns to rebuild equipment – contributing to high maintenance costs.

SKF Explorer spherical roller bearings for vibrating screens (VA405) are proven to last twice as long as other screen bearings and operate at much cooler temperatures. This means lower maintenance and repair costs, reduced downtime, and improved safety.

SKF offers a full range of SKF Explorer spherical roller bearings for vibrating

screens, all with the features needed for these rugged applications:

- 3-piece hardened steel cage system with outer ring centred guide ring.
- C4 internal radial clearance.
- Reduced bore and outside diameter tolerances.

And SKF Explorer spherical bearings with PTFE coated bore (VA406) provide additional benefits for vibrating screen applications. The special PTFE coating virtually eliminates fretting corrosion between the shaft and the bearing bore. This extends maintenance intervals and reduces associated labour costs.



*SKF Explorer spherical roller bearings for vibrating applications, with or without PTFE coated bore, provide extended service life in vibrating screens.*



## Increase the return on your maintenance investment with SKF

The SKF 360° Solution programme embodies our goal to help you get more out of your plant machinery and equipment investment.

This means lowering your maintenance costs, or raising your productivity, or both! Here's an example of the SKF 360° Solution at work in the mining, mineral processing and cement industry.



### A producer of vibrating screens used SKF Explorer spherical bearings to reduce bearing operating Temperature by 17 °C (30 °F) – doubling bearing service life.

A manufacturer of vibrating screens experienced high bearing operating temperatures during testing of its new screen design. The operating temperature was unacceptable since the vibrating screens would be used in a high temperature asphalt plant. The manufacturer contacted SKF.

SKF recommended SKF Explorer class spherical roller bearings for vibrating screens (denoted with VA405 suffix). The manufacturer tested the SKF bearings and measured operating temperatures 17 °C (30 °F) cooler than the original bearings. The original

bearings were of an old design with a machined brass cage.

SKF Explorer spherical roller bearings for vibrating applications have a 3-piece hardened steel cage system with an outer ring centred guide ring. This enables the bearing to operate with the lowest possible internal friction and operating temperature. As a result, the SKF bearing and lubricant last longer, increasing reliability and reducing maintenance and repair costs. This also improves safety, since maintenance/repair is the number one cause of accidents in the mining, mineral processing and cement industries.

### Summary\*

Savings by doubling bearing service life .....	€10 000
Investment in SKF Explorer spherical roller bearings for vibrating applications and grease .....	-€2 000
<b>Total savings .....</b>	<b>€8 000</b>

\* ROI calculations are from the SKF Documented Solutions Programme. Your particular cost savings may vary. Contact SKF or your Authorized Distributor for more details.

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