



# SKF mounting solutions for large bearings reduce downtime, extend mean time between failures

## Benefits

- Faster, more accurate mounting of large bearings
- Shorter repair time
- Increases safety with easy-to-use tools
- Accurate first-time mounting

## Typical applications

- Compactors
- Impact crushers
- Roll crushers
- Hammermills
- Press rolls
- Vertical mills
- Horizontal mills
- Hoists

## Sensorized bearings and hydraulic mounting tools enable faster and more reliable fitting

Mounting errors are one of the most common causes of premature bearing failure. Warning signs include machine vibration, hot running bearings, or loose bearings on the shaft, which often lead to premature machine failures, costly shutdowns and lost productivity.

To virtually eliminate possible drive-up errors and increase the service life of large bearings, SKF has developed and patented SensorMount – a revolutionary way to mount bearings by controlling the bearing inner ring expansion during drive-up on tapered shaft seatings.



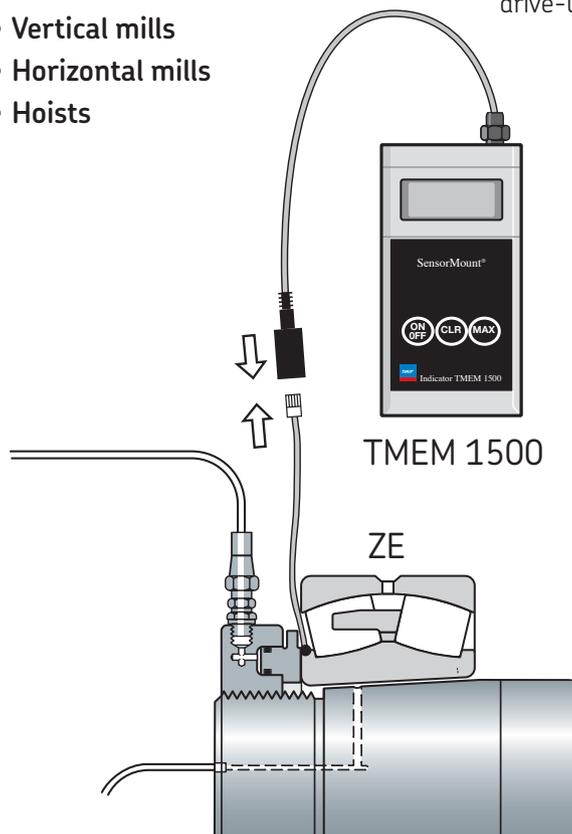
## SensorMount makes it easy to mount large bearings right the first time

SensorMount enables large SKF spherical roller bearings and CARB bearings to be mounted simply, quickly and reliably.

SensorMount comprises a bearing with a sensor and a hand-held indicator. The signal from the sensor is picked up by the indicator during bearing mounting. The indicator displays a value representing the internal clearance reduction (mm) divided by the bore diameter (m).

Since the indicator displays what is actually happening with the bearing, it does not matter what material the seating is made of or whether the shaft is solid or hollow.

Reduce downtime and maintenance costs, and extend Mean Time Between Failures (MTBF) with SensorMount.





## Increase the return on your maintenance investment with SKF

The whole idea behind the SKF 360° Solution programme is 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.

### Major potash producer increased uptime by 400 % and saved €364 700

A producer of potash experienced unplanned downtime at different intervals on several compactors. The shutdowns were a result of excessive shaft vibrations and subsequent bearing failure. Bearing removal and replacement were costly in terms of time and lost productivity.

The problem resulted from an improper fit of the bearings, which loosened under load and produced excessive shaft vibration.

Under the recommendation of an SKF industry specialist, the potash producer began using the SensorMount method to mount the bearing. In the first year they increased Mean Time Between Failure (MTBF) by 400 % and saved €364 700 by avoiding unplanned down-time.



*Through bearing damage analysis, SKF engineers can determine the root cause of bearing failure. Extensive fretting corrosion on this bearing indicates an improper fit on the shaft, which resulted in excessive shaft vibrations and early bearing failure.*

### Summary\*

Cost to repair compactors .....	€ 83 000
Cost of lost production (100 hours at €2 900 per hour).....	€ 290 000
<b>Total cost</b> .....	<b>€ 373 000</b>
Investment in SensorMount .....	-€ 8 300
<b>Total savings</b> .....	<b>€ 364 700</b>
<b>Total ROI</b> .....	<b>4 400 %</b>

\* All figures are rounded off and based on customer estimates of extended maintenance intervals. Your particular cost savings results may vary.

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