



Reduce errors and increase worker safety with SensorMount

Benefits

- Speeds and simplifies bearing mounting
- Requires less specialized mounting skills
- Reduces the chance of mounting errors
- Displays direct reading of the fit
- Features replaceable sensors

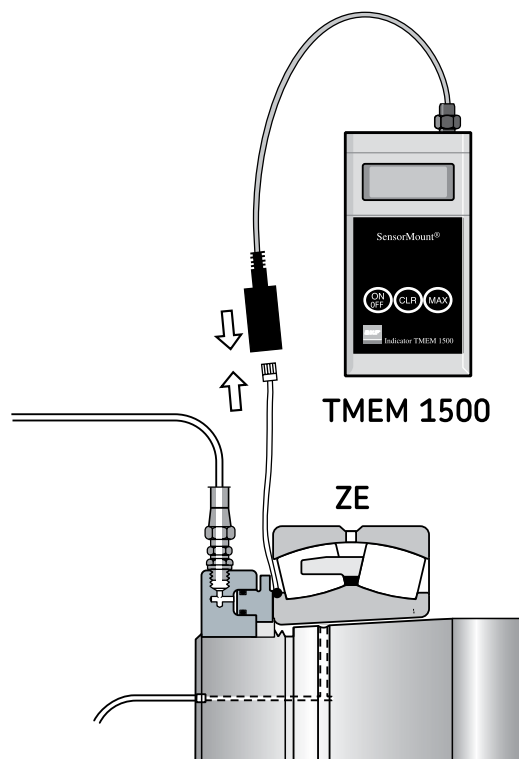
Typical applications

- Felt rolls in the press section
- Press rolls
- Deflection compensating rolls
- Yankee cylinders
- Yankee press rolls

Sensorized bearings and hydraulic mounting tools enable faster, more reliable fits.

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 bearing mounting system that controls 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 is comprised of a bearing with a sensor and a hand-held indicator. During mounting operations, the sensor transmits a signal to the indicator. The indicator displays a value representing the internal clearance reduction (mm) divided by the bore diameter (m). Since the indicator displays what is happening with the bearing in real time, factors such as seat material, or whether the shaft is solid or hollow, become irrelevant.

Ultimately, the advanced mounting capabilities of SensorMount help mills reduce downtime and maintenance costs, and extend Mean Time Between Failures (MTBF).



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 may mean lowering your maintenance costs, raising your productivity, or both! Here's an example of the SKF 360° Solution at work in the pulp and paper industry.

SensorMount saves paper mill € 26 900

On average, the maintenance team at a high-volume paper mill was changing 5 large tapered bore bearings per year. Employing typical mounting tools and procedures, the team was fitting the bearings with KM nuts, impact spanners and feeler gauges.

The man-hours and costs involved were excessive – 14 man-hours per bearing at € 33.25 per hour. Worse yet, improper mounting procedures were leading to an average bearing failure rate of 8 % per year. For help, the company turned to their local SKF Authorized Distributor, who suggested SensorMount.

Using the system's sensorized bearings and hydraulic nut, the team slashed mounting times by 90 % to a mere 1.4 man-hours. Bearing failures due to improper mounting procedures were eliminated. Based on the six-year estimated service life of a hydraulic nut, SKF and the mill calculated the following savings and ROI summary:



Summary over 6 years*

Savings on labour costs	€ 12 600
Savings on bearing costs	€ 22 800
Savings on mounting quantity cost	€ 1 000
Combined parts and labor savings.....	€ 36 400
Investment in Sensormount.....	-€ 9 500
TOTAL SAVINGS	€ 26 900
TOTAL ROI	283%

*All numbers are rounded off and based on customer estimates. Your particular cost savings may vary.



SKF 360° Solution ROI calculations are from the SKF Documented Solutions Programme. Ask your SKF Authorized Distributor for more details.

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