



Reduce downtime caused by low loads, vibration or poor lubrication

Benefits

- Superior performance under low-load, vibration or adverse lubrication conditions
- Increased machine reliability
- Longer bearing service life
- Reduced need for maintenance and lower replacement costs

Typical applications

- Soft calenders
- Super calenders
- Suction boxes
- Coaters
- Winders

NoWear bearings overcome critical causes of failure

Smearing can be a problem in paper making applications with low loads, or those that experience sudden variations in load or speed. Rolling elements slide, the oil film collapses and subsequent



metal-to-metal contact leads to severe wear. The result? Downtime (ideally planned but sometimes unplanned), and unnecessarily high replacement and maintenance costs associated with buying and mounting new bearings.

To overcome such problems, SKF developed the NoWear® bearing. NoWear components are coated with a ceramic material that has low-friction and high-hardness characteristics, and an extremely low affinity to bond to other surfaces. This coating has proven to be highly effective in preventing premature bearing failures caused by smearing in low load and high-speed operating conditions.

The coating properties also make NoWear bearings effective at preventing failures caused by vibration, as well as excessive wear due to poor lubrication (e.g. boundary lubrication conditions, inadequate lubricants, and/or emergency lubrication loss and “dry running” situations).





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 programme at work in the pulp and paper industry.

Newsprint producer generates 590 % ROI with NoWear bearings from SKF

A major newsprint producer was experiencing unacceptable levels of both planned and unplanned downtime due to smearing problems. The soft calender bearings were being replaced every year, and the loss of profit due to reduced production, bearing replacement and mounting costs was significant.

Since installing NoWear bearings, there have been no unplanned stops due to calender bearing problems. In addition, scheduled stops of the calender have been reduced by two thirds. The bearings now outlive the rolls, which are only taken out every three years for regrinding purposes.



Return on investment (ROI) summary for a 5-year period

Cost to purchase and mount replacement standard bearings (€148 500 + €4 500): €153 000
Cost of lost production: €420 000
Total cost €573 000

Total ROI 590 %

All figures are rounded and based on customer's estimates of labour and production costs. Your particular cost savings results 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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