



## SKF Drive-up Method for accurate bearing mounting

### Benefits

- Increases productivity by contributing to bearing reliability
- Reduces bearing mounting time by simplifying the mounting process
- Decreases costs by reducing manpower and expenses for bearing replacement

### Typical applications

- Calendar rolls, drive rolls, drying cylinders, felt rolls, guide and stretch rolls, press rolls, suction rolls, vacuum rolls, winder rolls, wire rolls, yankee cylinders

### Contributes to increased productivity, reduced downtime and lower costs

In the papermaking industry, where capital costs are high and margins can be relatively low, keeping machines running at maximum productivity is the key to maintaining profitability. Machine uptime is critical, as are maintenance efficiency and cost control.

One cause of machine downtime is premature bearing failure. Often, the root cause of the failure can be traced to incorrect mounting of the bearing. Common problems include fits that are too tight, which can cause the bearings to run hot, and fits that are too loose, which can lead to fretting corrosion. When bearings fail, expensive downtime can result. Even if it does not, there are still costs associated with replacement to consider.

### Correct fit provides more reliable performance

The SKF Drive-up Method offers a quick, easy and accurate hydraulic method of mounting spherical roller and CARB toroidal roller bearings on tapered seats. Unique to SKF, this method helps to assure a correct fit and more reliable bearing performance.

The technique utilizes an SKF hydraulic nut in the HMV...E series (equipped with a dial indicator), and an SKF hydraulic pump (equipped with a high-accuracy digital pressure gauge). A specific pressure especially calculated for each bearing type enables accurate positioning of the bearing at a starting point, from which the axial drive-up is measured. By controlling the axial drive-up from this pre-determined position, an appropriate fit is achieved.

The SKF Drive-up Method has proven to be 50% faster than traditional mounting methods, such as using feeler gauges. In addition, unlike feeler gauges which require expertise and experience, it is an easy method to use, and requires no special skills.



*The SKF Drive-up Method can be used for bearings and components mounted on tapered seats.*



## 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.

### Paper maker achieves 510% ROI in one year using the SKF Drive-up Method

A paper mill was experiencing uneven and high bearing temperatures and premature bearing failures in their winder. The result was production downtime and significant costs associated with repairs

and replacements. Upon investigation, it was discovered that the mill's maintenance staff were mounting bearings with hammers and were not achieving the appropriate internal bearing clearance. It was clear that the mill needed a solution that would help them mount and dismount bearings correctly – and reduce the risk of seat damage during mounting. SKF proposed applying the SKF Drive-up

Method for accurate mounting. Over a period of one year, using this technique resulted in a significantly reduced need for bearing replacement, and an equally significant decrease in mounting time. In fact, the customer estimates that mounting time has been reduced by 75%. The end result has been a considerable reduction in downtime and costs.

### Return on Investment (ROI) summary\* over a 1-year period

Increased production availability/less downtime . . . . .	€ 16 060
Reduced costs (mounting/dismounting bearings and repairs). . .	€ 5 680
<b>Total benefits per year . . . . .</b>	<b>€ 21 740</b>
Investment in SKF solution. . . . .	-€ 3 560
<b>Benefits . . . . .</b>	<b>€ 18 180</b>
<b>Return on investment . . . . .</b>	<b>510%</b>

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

© SKF and CARB are registered trademarks of the SKF Group.

© SKF Group 2009

The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein. Any cost savings and revenue increases in this publication are based on results experienced by SKF customers and do not constitute a guarantee that any future results will be the same.

Publication 6893 EN · April 2009

Printed in Sweden on environmentally friendly paper.

