



# SKF Asset Management Services

## Benefits

- Benchmark your current practices against your peers'
- Develop a strategic plan for optimizing the effectiveness of your production assets
- Increase machine availability, reliability and productivity
- Reduce total life cycle costs of assets
- Develop a process for continuous improvement

## Consultancy and reliability services to optimize overall equipment effectiveness and reduce downtime, maintenance and life cycle costs

### Why Asset Management?

As best-in-class companies have discovered, arbitrarily cutting costs is not the way to achieve higher productivity at a lower cost. Best performers know that the secret to achieving the lowest possible cost per tonne lies within the way their people work together and in the work processes and technologies that support them. Only by implementing a good asset management programme can you realize the benefits of closing the gap between being average and a best performer and achieve your business goals.

### Why SKF?

SKF Asset Management Services are based on our proven Asset Efficiency Optimization work management process. SKF consultants can first perform an assessment to understand your business goals, application challenges and plant culture. We can then help you identify gaps, and the value of closing them. Finally, we can help you implement processes, services and technologies to get the most out of your production assets. Together, we develop strategies and programmes to achieve continuous improvements and bottom-line results. Our services include:

- Assessments and benchmarking
- Risk and criticality analysis
- Maintenance strategy development
- Spares and inventory management
- Application engineering
- Maintenance engineering
- Reliability engineering
- Maintenance management system implementation
- Life cycle costing
- Reliability and condition monitoring service programmes
- Maintenance and reliability training



*With SKF Asset Management Services, improvement can begin anywhere on the continuum and proceed indefinitely – a living process for asset optimization*

For more information about SKF products and solutions for the metals industry, contact your SKF representative.





## Applying SKF knowledge engineering to improve machine reliability and efficiency in the metals industry

Few environments can match the demands placed on equipment used in the metals industry, from continuous casters and vessels to travelling cranes and ventilation systems. SKF engineers work closely with steel mills to meet application challenges and deliver the benefits they need to stay competitive.

These benefits include increased machine reliability, extended maintenance intervals and reduced costs, increased productivity, reduced energy consumption, and optimized life cycle costing. Below is just one example of how SKF knowledge engineering helped a metals industry customer improve efficiency and profitability.

### Mill cuts downtime, raises output and saves \$ 402 000

#### The problem

Siderurgica Barra Mansa, a Brazil-based, integrated mill producing 450 000 tonnes of steel rod, bars and wire annually wanted to boost capacity. In cooperation with SKF, the customer was able to improve their asset management programme and significantly reduce downtime of the rolling mill and mechanical failures of the intermediate gearboxes.

#### The solution

The company selected SKF for asset management services that focused on the roughing and finishing mill stands. SKF implemented a condition-monitoring and lubrication programme, performed a Root Cause Analysis on problematic machinery, performed an engineering study and provided recommendations for a machine redesign.

#### The results

SKF solved the initial problem and helped the customer to reduce downtime and unnecessary bearing failures. The number of bearing failures in the intermediate gearbox was reduced from seven in 2004 to only one in 2006. SKF also provided the data and analysis the mill needed to improve the operating processes and boost productivity. SKF is now helping the customer to develop a new maintenance strategy and optimize the operator inspection programme.



### Summary\*

Downtime 2004 (before implementation) .....	6,75 hours/month
Downtime 2006 .....	3,63 hours/month
Increased production, 2004–2006 .....	2 240 tonnes
<b>TOTAL SAVINGS, 2004–2006 .....</b>	<b>\$ 402 000</b>

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

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Publication 6529 EN · March 2008 · Printed in Sweden on environmentally friendly paper.

