



Monitor critical machine functions. Continuously. In real time.

Benefits

- Improved process control
- Improved maintenance planning
- High quality data acquisition enables enhanced accuracy
- Improved worker safety
- Modular system that can be tailored for your needs

Typical applications

- Critical fans
- Drive lines and gearboxes
- Ladle turrets
- Overhead cranes
- Rolling mill stands

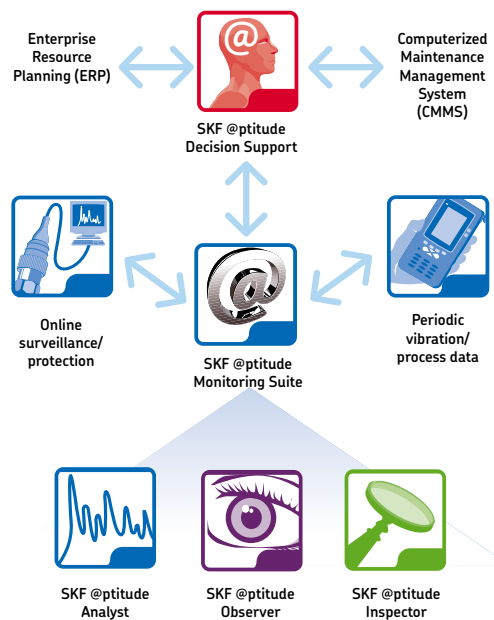
SKF Multilog Online Condition Monitoring System

The benefits of being able to anticipate when a machine failure might occur are well known. Maintenance can be scheduled for an appropriate time. The work can be planned to make sure that skilled labour, spare parts and tools are available. These steps minimize the time needed, and the financial impact, of any necessary repairs.

Integrated solutions for tough conditions

Although many steel mills would like to take advantage of condition monitoring, the metals industry has some of the most challenging conditions. In addition to the harsh and dangerous manufacturing environment, there are process parameter changes between steel grades, variable and slow speed equipment, shock loads, frequent roll changes and resonance conditions leading to chatter marks on rolled products.

SKF online condition monitoring systems are designed to meet these tough circumstances. The integrated hardware and software system is scalable and comprehensive enabling SKF to tailor a solution for your specific needs as they evolve. Technology is only one part of the SKF solution. Our systems are backed by over 100 years of application knowledge, and SKF can support you from design and installation to data analysis and subsequent recommendations.



*SKF @ptitude Asset Management System:
Integrated technology for overall
equipment effectiveness.*



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 is an example of the SKF 360° Solution at work in the metals industry.

SKF condition monitoring system increases reliability and reduces downtime at a rolling mill



The problems

A Brazilian rolling mill was experiencing a high rate of bearing failures in their finishing block gearboxes. This was leading to high repair costs and unexpected production stops.

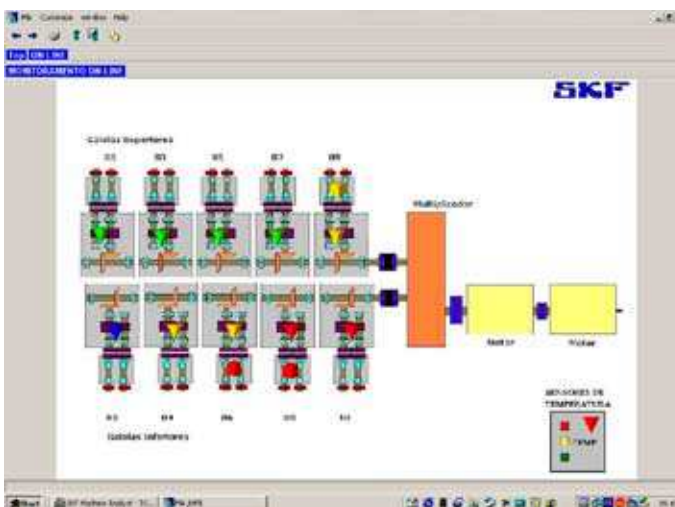
Although the mill used an outside contractor to take portable vibration measurements, failures were still occurring every three months.

The SKF solution

SKF installed an online vibration and temperature monitoring system on the finishing blocks and stand gearboxes. The system included a user friendly display that enabled operators to monitor the overall condition and operating state of the equipment. On a scheduled basis, SKF would provide the mill with a detailed analysis of the data. Once a problem was detected, SKF would work with the customer to identify the root cause of the problem and develop a solution to improve the mean time between failures.

The results

By installing the online system, the mill is now able to detect faults that can lead to bearing failures in time to properly plan for their replacement. The mill has also been able to implement design changes that have increased the mean time between failures from three months to over one year. The online monitoring system is now providing valuable information to the operators for adjusting the production parameters to help reduce machine overloads and improve process reliability and machine service life.



Machine condition on mill stand drives and gearboxes graphically represented in SKF @ptitude Analyst/HMI

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