



SKF Operator Driven Reliability

Benefits

- Increased reliability due to improved traceability of asset events
- Reduced maintenance costs by early detection of problems
- Reduced waste of water, energy, lubricants due to specific inspection routines
- Enhanced TPM implementation through advanced processes and tools
- Better product quality and consistency through better machine performance

Typical applications

- Can be applied in any food and beverage plant

Enhancing equipment efficiency while meeting safety, quality and environmental targets

In food and beverage plants, the availability of time and resources to acquire, record, analyze and react to asset condition information is a common challenge. Preventing machine failures through continual inspection of equipment is one of the applied strategies. But doing so manually, and with no focus on asset criticality, can impact not only equipment efficiency, but also product and operator safety, while raising possible environmental issues.



SKF Operator Driven Reliability (ODR) processes and technologies provide the means to capture asset events and their impact as they occur. Through ODR, employees are empowered to contribute to earlier awareness of degrading asset conditions and become an integral part of preventive-maintenance-based asset management strategies. They are supported in ODR efforts with SKF condition monitoring, analysis, reporting and communication technologies that enable immediate detection of problems, and sharing of machine condition data. By applying root cause failure analysis techniques, reliability will be improved and problem



The ODR process enables earlier awareness of degrading asset conditions, contributing to the reduction of maintenance, water, energy and lubricant costs.

reoccurrence can be avoided. SKF also offers ODR training in processes for addressing problems and preventing unplanned downtime.

SKF ODR is designed to support food and beverage operations by increasing Overall Equipment Effectiveness (OEE). It also complements Total Productive Maintenance (TPM) efforts. In addition, SKF ODR facilitates compliance with increasing regulations and Food Safety Standards by providing the ability to track and record asset events, inspections, and process and maintenance parameters. Most importantly SKF ODR enables an integrated team approach to reliability and can help achieve operating goals for productivity, profitability, product quality, safety, environmental impact and more.



Increase the return on your maintenance investment with SKF

The whole idea behind the SKF 360° Solution programme is to help you get more out of your plant machinery. Whether your goals include lowering maintenance costs, raising productivity, or improving safety, hygiene and sustainability, SKF can assist. Following is an example of the SKF 360° Solution programme at work in the food and beverage industries.

Chocolate manufacturer decreases inspection time, increases reliability and productivity with SKF ODR

A major chocolate manufacturer produces more than 250 000 tons of chocolate at one of its largest and most efficient plants. With an objective to optimize resources as well as the plant's preventive maintenance program, the manufacturer knew its existing, time-consuming method of machine inspections needed to change. The plant had more than 2 000 inspection points. Under the existing procedure, 500 points at a time were measured and/or inspected, then an equal number of hours were spent recording data. An immediate response to problems was made difficult due to a lack of documentation on past corrective measures or trends.

SKF recommended using the Operator Driven Reliability process, and supplied the necessary hardware, software, installation service and employee training. The manufacturer tested the ODR system for one year and found that maintenance administration could be reduced by one man day per week. The automation of inspections eliminated unnecessary time and labour, and, because inspections could be performed by a wider number of employees, the operation achieved more organizational flexibility. The plant also experienced a decrease in production losses, and an increase in product quality. Based on these positive results, the manufacturer now plans to expand the program to 7 000 inspection points, with a team of seven employees working together in implementing the ODR system.



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Summary*

Plant achieved one percent reduced production loss for 250 000 tons annual production

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

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