Result

- ✓ Significant drop of break downs of critical machines
- ✓ Transition towards condition-based maintenance
- ✓ High reliability and availability
- ✓ Lower energy consumption due to better balanced machines.

Solution

- ✓ Continuous on-line monitoring of critical machinery condition and unbalance.
- ✓ Integration of machine status and unbalance data in the control system to optimize the operational control based on machinery status and unbalance.
- ✓ MIVA ® Master with the software's PEMAC ® and Robal ®

Challenge

- ✓ Production loss due unplanned stops or failures of critical machines
- ✓ Large fleet of different machine types and makes
- ✓ Handheld data collectors took too much time and did not capture machine status well enough.

A large portion of Ireland's milk passes VIKONs solutions

Glanbia Nutritionals located at Ballyragget, Ireland is one of Europe's largest manufacturers of raw material used in the manufacturing of ice cream. A number of serious machine break downs resulted in the search of an online based condition monitoring system that would be integrated into the existing SCADA system. The choice fell on VIKONs solutions, resulting in a significant decrease of break downs.

Glanbia has its roots in the Irish dairy co-operative and when the plant was built in Ballyragget near Kilkenny it was (and still is) one of the largest plants in Europe of its kind.

The site in Ballyragget had a challenge in having too many unplanned stops on critical machines. Therefore, work began to find an online solution that could be monitor the most critical machines for the whole factory. A large part of the challenge for online monitoring is to set alarm limits in an effective way in order to minimize the number of false alarms and also the machine over its lifetime as overhauls are done and limits change.

Solution

Glanbia chose MIVA Master in combination with the PEMAC software because the solution offers an automated fault detection including evaluation and diagnose of the machine condition. Furthermore there is a continuous improvement of the basic machine models providing a very high accuracy of the machine condition. This in turn is also the basis for efficient condition based maintenance and optimized operation.

The VIKON solution has been integrated into the control system and status information is visible in each control room as well as on the screens in the maintenance department. All collaborating departments have thus constantly access to the machines current state.

Glanbia also has access to VIKONs and TetraPaks expertise remotely when needed since data continuously sent to VIKONs central database. Additionally VIKON delivers reports every two weeks with an overall picture of the situation for the whole site.

Result

Glanbia has gradually expanded the system which today encompasses many types of machines, and it has drastically reduced the number of unplanned production stops.

VIKON
Smart Condition Monitoring and Rotor Balancing

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VIKON is a global supplier of Smart Condition Monitoring Solutions and Rotor Balancing for all kinds of machinery. Our systems and products are found in many different Industries, in more than 20 countries worldwide. We have been helping our customers for over 30 years in achieving the best possible Overall Equipment Effectiveness(OEE) and Asset Management(AM).