



Case Study: Smurfit Kappa

Overview

Smurfit Kappa, a FTSE 100 company, is one of the leading providers of paper-based packaging in the world, with operations in 23 European countries and 12 countries in the Americas. Almost all the raw materials are sourced from its own paper mills, so consistency is always a key attribute of its products.

Challenges

The plant in Norwich manufactures corrugated sheet board and wanted to achieve an increased Uptime performance with improved plant reliability. This built on the existing condition-based approach to maintenance with an objective to forecast potential failure to safeguard the manufacturing processes and enable appropriate intervention prior to failure.

Smurfit Kappa wanted to use this initial deployment at Jupiter Road as evidence for automated Predictive Maintenance (PdM) analysis, integrating the system functionality with other manufacturing systems and SAP, ultimately with the aim of expanding a roll out programme to other sites.

Solution

Senseye, Malone Group and Omron worked with Smurfit Kappa to deploy a scalable predictive maintenance solution at the initial deployment site, Norwich. Sensors and infrastructure including hardware and software for the project were provided and implemented by Malone Group in conjunction with Omron. Integration with other manufacturing systems was established to provide utilization of plant data and an effective user interface with the maintenance management system.

Outcomes

Whilst initial delivered results are favorable the system needs time to stabilize and mature having now been in place for 6 months. The following benefits have so far been identified;

- Simplified workflow for the engineering team
- Focus on asset condition and predictive work not reactive maintenance
- Initial uptime results show positive signs of improvement

“Over the last five years we have been on a journey towards predictive maintenance within our UK operations. In 2020 we stepped positively into an online predictive maintenance arena with Senseye, facilitated by Malone Group and Omron. This approach will enable further improvement across our engineering functions as we roll out the approach across other sites driving equipment reliability.”

Steve Parr, UK Engineering Director, Smurfit Kappa