

# A smart move by Arjo Wiggins. ABB Smart Advisor Selected for Improved Productivity



A further boost to productivity improvement at Arjo Wiggins Carbonless Papers is expected following the Company's investment in a revolutionary on-line system from ABB Automation which provides integrated health diagnostics and quality analysis of the paper machine and the papermaking process.

The ABB Smart Advisor System – installed at Arjo Wiggins' Corpach, Fort William mill in Scotland – interfaces with the existing AccuRay 1190 QCS (quality control system) to provide continuous monitoring for vibration at some 200 locations on the paper machine, covering the coater and press, wire and drying sections. Should any existing or impending adverse

condition be detected, the new ABB system will perform a high-speed analysis to define the route cause/s, alert the operator and automatically provide him with advice on how to resolve the problem without having to rely on extensive data analysis. The system then automatically records a history of the incident and of the action taken so that the following shift and the mill management are kept informed.

Although the operator may not be able to perform a full engineering function to correct a problem, he is empowered by the ABB Smart Advisor to make decisions on the immediate adjustments required for keeping production in progress until there is a more

suitable opportunity for carrying out any necessary repair. This and the increased efficiency of planned preventive maintenance through advance warnings of impending problems, are expected to benefit Arjo Wiggins in cost-savings and improved productivity through extended equipment life, reduced unscheduled downtime and less off-quality production.

From the various software modules available with the ABB Smart Advisor, Arjo Wiggins has selected '**Felt Manager**' to optimise felt conditioning procedures for reducing sheet breaks and off-quality production such as holes, cracked edges and sheet crushing; '**Roll Manager**' which monitors rolls on the paper machine for conditions such as misalignment, barring and cover separation; '**Bearing Manager**' for automatic predictive failure analysis of bearing life and '**Quality Manager**' which determines the specific machine component/s contributing to sheet variations.

Information based on the condition monitoring and quality analysis is available to the operator via the ABB NT Smart Advisor Operator Station and it can also be accessed by managers on their office PCs via the mill-wide communications network.

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