

Danisco Paper to upgrade plant control with ABB Advant OCS



A major automation upgrade to state-of-the-art open control systems technology without incurring prolonged plant downtime through complex re-cabling, has been carried out by ABB Automation at two paper mills operated by Danisco Paper Limited, manufacturers of test linerboard and fluting for the packaging industry.

The upgrades are at Danisco's Creams Mill in Bolton and Holcombe Mill in Ramsbottom where an ABB Advant OCS (open control system) was selected to provide the latest automation technology for improved productivity through better visibility of the process, increased trending power and tighter control.

These and other benefits were achieved without incurring major plant re-work.

At the Creams Mill, a single Advant AC 450 controller combines the functionality of the existing ABB Master DCS (distributed control system) controlling stock preparation and the paper machine's AccuRay 1190 QCS (quality control system). The existing stock preparation DCS has been modified into an I/O rack, linked via fibre optics to the new ABB Advant controller running the latest AccuRay 1190 QCS paper machine measurement and control software. This enables all the existing I/O to remain connected to existing terminations and avoids the need to re-wire to a new location.



The AC 450 controller also interfaces to the existing S400 remote I/O in the stock preparation area simply by re-routing the Fieldbus.

The two paper machines at Holcombe Mill have been up-graded from earlier-generation AccuRay 1180 measurement and control systems to modern AccuRay 1190 quality control systems, one of which was relocated from Creams Mill. An Advant AC 450 controller replaces the existing Master DCS at the wet end, interfacing directly to the existing I/O racks to avoid re-cabling costs.

Each site has been installed with two ABB Advant Operator Stations, replacing previous-generation MasterViews, plus another three X-terminals. An Advant IMS Station is also featured running AdvaInform History to provide enhanced trending capacity, and AdvaInform Display to provide managers with a graphical interface to management information from both plants via office PCs connected to the existing Mill TCP/IP network.

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