ABB

Deliveries to Saica and Arjowiggins in UK

ABB won a contract to deliver the paper machine and winder sectional drive systems for Saica Containerboard’s new PM 11 paper production line in Manchester, England.

Saica is a family owned company and market leader in southern Europe in the manufacturing of corrugated paper with a total production capacity of more than two million t/y. Saica chose ABB for this project after a successful installation of the same technology on its PM 10 production line. ABB’s PMC800 Direct Drive solution will reduce overall equipment investment costs by eliminating gear boxes, encoders, primary couplings, gear lubrication. The unique Direct Torque Control (DTC), combined with AC800 drives control system enable encoderless motor control and operation in paper machines.

In addition to eliminating the external gears boxes, the highly efficient Direct Drive solution provides energy savings throughout the system lifecycle. Its 16 installed permanent magnet motors are mostly located at the dryer, representing less than 20% of the total drive power. Dryer section electrical energy losses are 17% lower than that of a traditional drive system, with estimated energy savings over 20 years projected at more than EUR 275,000. The solution requires less maintenance and minimises downtime, as well as reduces initial construction costs, resulting in lower overall system lifetime costs. PM 11 will be ready for start-up in January 2012.

Updating automation systems

ABB will also provide new automation, quality control and collaborative production management solutions to Arjowiggins Creative Papers’ Stoneywood Mill in Aberdeen, Scotland, UK. The new systems are part of a modernisation project that will increase productivity, product quality and energy efficiency.

Arjowiggins is a leading manufacturer of creative and technical paper. The Stoneywood mill produces papers for corporate communication and promotion, luxury packaging, industrial release papers and other creative papers and specialty applications at two manufacturing sites with a capacity of 200 t/d.

The delivery includes ABB’s award-winning System 800xA Extended Automation to control the central boiler house and integrate with other mill systems. System 800xA will replace older, less reliable equipment, while helping to optimise energy efficiency. Its unique operator interface will give workers clear visibility into mill status information at all times. According to the supplier, the integrated control system significantly improves mill productivity by increasing operator effectiveness and reducing transition times during shade and grade changes. The scope of supply also includes several collaborative production management solutions. CpmPlus, Smart Client information management software will provide users with easy access to real time and historical process data. With Smart Client, Arjowiggins Creative Papers supervisors can make better decisions and improve mill management. CpmPlus Loop Performance Manager has tuning and auditing tools that will keep the mill running at peak levels with minimal engineering staff effort.

KEMA certification for electrical integration

The System 800xA Extended Automation controller has just recently received KEMA certification for its IEC 61850 electrical integration interface. IEC 61850 is the global communication standard for Power Distribution and Substation Automation. This certification assures that System 800xA’s AC 800M controller is in full compliance with the global IEC 61850 standard for electrical devices.

KEMA’s Protocol Competence and Test Center is the leading certification organisation for IEC protocols, and is the first independent test organisation authorised by UCA (Utility Communications Architecture) International Users Group to perform the official IEC 61850 conformance tests and issue certificates.