

Industrial^{IT} for Papermaking ABB drives add stability and precision to new green production line at Yueyang Paper Mill.

As Yueyang Paper Mill, part of China's Tiger Forest & Paper Group, planned its new green production line, mill executives knew it would be critical that the line ran smoothly and efficiently. Yueyang Paper turned to ABB for new drives that would provide control with the accuracy needed to ensure stability.

New automation brings control precision

Yueyang Paper, located in Yueyang, Hunan province, China, decided to dramatically expand its mill by adding a large-capacity new production line that could produce 400,000 tons of paper each year. The mill had always recognized the importance of protecting the environment, so they chose to make the new line a green project.

Yueyang Paper had worked with ABB for more than a decade; they had first-hand knowledge of ABB's world-class technology – and they also understood ABB's commitment to the environment. When the new production line started up in August 2009, it was equipped with ABB drives.

"ABB's automation has the high level of intelligence and control precision which will ensure the production line can run with high quality and high efficiency," says Huang Yuhe, general electric engineer at Yueyang Paper Mill. "ABB's drive



system has compact design and high flexibility, with energy-saving capabilities and user-friendly operation."

Yuhe says that the Yueyang Paper Mill chose ABB because of a very positive long-term working relationship as well as ABB's recognized engineering abilities.

Synchronized machine speed, reduced running costs

ABB provided the mill with ACS800 drive systems for their PM9 and PM10, along with motors, an 800xA drive control system, and engineering and commissioning services.

Xiao Kai, ABB's drives expert, says the ABB drive system's integrated design coordinates machine speed, smoothes communication and reduces running costs.

The new production line doubled the mill's product output and significantly improved the mill's productivity.

The project took less than 16 months to complete. According to the Forest & Paper Group, this was one of the shortest start-ups ever for a project of its size in China.

Commitment to the environment

Located at the confluence of the Dongting Lake and Yangtze River, near the Beijing-Guanzhou railway and the Beijing-Zhuhai highway, Yueyang Paper is easily accessible by land and water. The mill is ideally situated to export its high-quality paper to Japan and other countries.

The company produces paper, paper products and chemical pulp made from wood and reed. They manufacture offset paper, offset newsprint, bright and colored newsprint, surface sized newsprint and slightly coated newsprint.

Yueyang Paper is so committed to protecting the environment that the mill has established an environmental protection committee and an environmental protection office. Additionally, they built an environmental monitoring station that tracks waste water, waste gas, noise and related issues so that mill specialists can check levels and make any needed adjustments.

The mill's new production line fits its green philosophy – and ABB's. The ABB drives are part of an environmentally-friendly, clean production project that uses recycled paper for its raw material as well as advanced water-saving and energy-saving technology.

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For more information, please contact:

ABB Inc.

579 Executive Campus Drive
Westerville, Ohio 43082, USA
Tel: +1 614 818 6300
Fax: +1 614 818 6571

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