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Stora Enso Kvarnsveden paper machine sets new world record using ABB drives

The world's argest uncoated paper machine breaks its own speed record

On January 21, 2009 the PM 12 paper machine at Stora Enso Kvarnsveden in Borlänge, Sweden, set a new world record for producing uncoated paper. During a 24 hour period an average 1,926 meters of paper were produced per minute. The top speed reached at the record moment was 2,009 meter per minute.

The PM 12 at Stora Enso Kvarnsveden includes an ABB Sectional Drive System. "The PM 12 includes approximately 45 drives, frequency convertors and motors. They are coordinated with very high accuracy and with ABB's Industrial IT System 800xA they make it possible for the paper machine to reach its high speed," says Jan Classon, the ABB customer relations manager responsible for Stora Enso Kvarnsveden.

Classon says this is not the first time that drives from ABB have been involved in a speed record of this kind. "ABB drives can be found on several paper machines that hold speed records within different areas. And I would not be surprised if these machines set new records in the future," says Classon.

PM 12 at Stora Enso Kvarnsveden began operation in November 2005. It is the world's largest paper machine producing uncoated magazine paper. PM 12 held the previous speed record set on March 15, 2007 when the paper machine produced 1,901 meters of paper per minute during a 24 hour period.

High speed paper machine capacity is fundamental for the mill's productivity. Accurate and precise speed adjustment is a key factor in attaining a high rate of speed while still maintaining good product quality.

"Our drives' high capacity makes it possible for our clients to continuously maintain a high rate of productivity," says Classon. "Another important factor during the energy-intensive process of production is the drives' energy efficiency, for example the ABB motors used in the PM 12 are among the world's most efficient motors."

ABB (www.abb.com) is a leader in power and automation technologies that enable utility and industry customers to improve their performance while lowering environmental impact. The ABB Group of companies operates in around 100 countries and employs about 115,000 people.

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