SIEMENS

Background
information

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Hannover Messe 2019, Hall 9, Booth D35

The Siemens "Fiber Industry" highlight cube at the Hannover Messe 2019

Visitors to the Siemens "Fiber Industry" highlight cube at the Hannover Messe 2019 will discover first-hand how Siemens is preparing this sector for digitalization, along the entire value-added chain. Siemens is implementing a well thought-out and integrated overall concept based on proven modular systems and solutions from the Sipaper portfolio. Under the slogan "Digital Enterprise – Thinking industry further!", Siemens is presenting digital solutions which pave the way for autonomous pulp and paper mills. The focus is on more flexibility, new production processes and increased transparency within the plants.

At Booth D35 in Hall 9, Siemens offers an interactive presentation of digital optimization processes in paper manufacturing. A combination of multimedia screens and illuminated acrylic models provides a realistic simulation of a manufacturing process. Four tablet stations offer augmented reality to further enhance the experience for visitors.

All components of the Sipaper product family are presented. Highlights include the digital applications for Process Event Prediction, Drive Performance Analytics app V3, Drive Train Monitoring and the MindSphere Control Performance Analytics application.

With the Sipaper product family, Siemens offers a well though-out overall concept of seamlessly integrated components. Individual, perfectly matched solution modules ensure optimum efficiency, maximum system availability, long-term investment security and maximum quality with minimum costs and sustainable efficiency.

A changing industry: from paper to fiber business

Change in the fiber industry is being driven by a move from conventional graphic products to sustainable packaging and sanitary products, as well as by the increasing integration of renewable energies and biomass instead of

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petrochemicals. Digitalization increases flexibility, supports new production processes and increases transparency within factories. By linking machine and production data with intelligent algorithms and future technologies, Siemens makes data fully usable, enabling the creation of self-optimizing, autonomous machines and plants. The Sipaper product range offers users support for imminent critical situations – e.g. on an alarm or web break – through a self-learning assistance system. This system is based on the results of previous analyses and real-time data analysis with an easy-to-operate notification interface.

Towards an autonomous paper mill – using data to its full potential
Using data to its full potential is the first step on the way to an autonomous mill. Consistent digitalization enables the integration of long-awaited applications such as Siemens Sipaper Process Event Prediction and self-learning systems. It is then possible to predict upcoming events. Analysis of drive performance and monitoring of the drive train help to reduce web breaks or downtime. Control Performance Analytics also help to reduce fluctuations in the process. In this age of digitalization, the Digital Fiber Initiative from Siemens provides new digital solutions which pave the way for autonomous pulp and paper mills.

Reference: Stora Enso
Siemens demonstrates applications and solutions using the example of Swedish reference customer Stora Enso. In its Skoghall factory, Stora Enso produces ten percent of the world's supply of packaging board for liquids. Daily production creates material for up to 100 million 1-liter packs. With new automation components and integrated cloud-based data analysis, the company has extended its production capacity, avoided downtimes and identified potential for optimization.

For further information on Siemens at the Hannover Messe 2019, please see
www.siemens.de/hannovermesse and www.siemens.com/presse/hm19

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Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 170 years. The company is active around the globe, focusing on the areas of power generation and distribution, intelligent infrastructure for buildings and distributed energy systems, and automation and digitalization in the process and manufacturing industries. Through the separately managed company Siemens Mobility, a leading supplier of smart mobility solutions for rail and road transport, Siemens is shaping the world market for passenger and freight services. Due to its majority stakes in the publicly listed companies Siemens Healthineers AG and Siemens Gamesa Renewable Energy, Siemens is also a world-leading supplier of medical technology and digital healthcare services as well as environmentally friendly solutions for onshore and offshore wind power generation. In fiscal 2018, which ended on September 30, 2018, Siemens generated revenue of €83.0 billion and net income of €6.1 billion. At the end of September 2018, the company had around 379,000 employees worldwide. Further information is available on the Internet at www.siemens.com.