

Media Release

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World's most modern board machine successfully commissioned at BillerudKorsnäs in Gruvön

2019-07-29

- New performance benchmarks in board production
- Cutting-edge technologies and smart digital solutions
- Features other innovations like highly specialized coating units and use of carbon fiber components

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HEIDENHEIM/GRUVÖN. On June 28, 2019, the BM 7, the most modern, most efficient and largest board machine in the world, was successfully commissioned at the BillerudKorsnäs production facility in Gruvön, Sweden. The Voith XcellLine board machine has been equipped with a pioneering technological setup that sets new performance benchmarks for production lines for four different board grades. At a design speed of 1,200 m/min and web width of 8,800 mm, the capacity of the BM 7 is 550,000 metric tons per year. Start-up took just seven days from stock on wire to paper on reel.

“Not only is the start-up of the new BM 7 in Gruvön running to schedule; the collaboration with the Voith team has also been first-rate. As a result we were able to meet all major milestones and have been producing high-quality liners for our customers on the BM 7 since the end of June. We will continue to focus on the successful start-up of the BM 7, safety, production stability, efficiency improvements and innovation,” says Maria Engnes, Program Director NEXT Generation of BillerudKorsnäs.

“With the board machine in Gruvön, currently the most modern in the world, Voith Paper has once again been able to reinforce its position as a technology leader and innovation driver,” adds Patrick Romes, Senior Project Manager, Voith Paper.

State-of-the-art: outstanding technological features

Some of the standout features of the former section include a three-ply wire section with a DuoFormer D II hybrid former, two state-of-the-art DuoShake shakers and a fiber orientation control system. The scope of supply also includes various MasterJet Pro F systems with additional IntraDamp modules for the headbox. In the press section, a Tandem NipcoFlex shoe press with SolarPress roll covers ensures optimum dewatering.

In the dryer section, EvoDry steel cylinders are being used in a board machine for the first time. The special cylinders allow highly efficient and safe paper drying thanks to higher heat transfer and greater working width. Another first at a European paper mill is the high performance winder VariFlex XL.

In the finishing section, the BM 7 is also the first board machine worldwide to be fitted with Curl Control. For maximum flexibility and optimum product quality, the machine also has four different coating units: two SpeedSizer systems, one JetFlow F and one DynaCoat AT. Both the SpeedSizer units and the DynaCoat AT have carbon fiber supporting structures to ensure stable CD profiles with consistent coating performance.

Papermaking Next Level: integrative digital solutions

The Papermaking 4.0 solutions OnEfficiency and OnCare, which allow all process data to be monitored and controlled online in a user-friendly format, are also major components of the BM 7. Among other things, OnEfficiency Forming enables de-watering, retention and flocculation to be stabilized and coordinated at the same time. The OnCare package including integrated asset management ensures maximum machine availability thanks to highly efficient preventive maintenance of the entire paper machine. This in turn also helps reduce project costs.

Initial clothing of BM 7 by Voith

Voith was engaged to supply the initial clothing for the BM 7. In addition, as main supplier for the BillerudKorsnäs mill, Voith will over the next three years supply the CleanWeave dryer fabrics, Kinetic and Infinity press felts and I-Series forming fabrics. This will ensure consistently high paper quality and is yet further evidence of the customer's trust in Voith and confirmation of Voith's success as a full-line supplier.

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Caption 1: BillerudKorsnäs, Voith XcellLine KM 7 Gruvön, Sweden



Caption 2: from left to right, Magnus Johansson, BillerudKorsnäs, project manager KM 7, Christian Merz, Chief Commissioning Engineer Voith Paper

About the Voith Group

The Voith Group is a global technology company. With its broad portfolio of systems, products, services and digital applications, Voith sets standards in the markets of energy, oil & gas, paper, raw materials and transport & automotive. Founded in 1867, the company today has more than 19,000 employees, sales of € 4.2 billion and locations in over 60 countries worldwide and is thus one of the larger family-owned companies in Europe.

The Group Division Voith Paper is part of the Voith Group. As the full-line supplier to the paper industry, it provides the largest range of technologies, services, components and products on the market and offers paper manufacturers solutions from one single source. The company's continuous stream of innovations takes papermaking to the next level and facilitates resource-conserving production. With its Servolution concept,

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Voith offers its customers tailored service solutions for all sections of the production process. Voith Papermaking 4.0 ensures that equipment is optimally connected, while the secure use of generated data enables paper manufacturers to improve plant availability and efficiency.

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