

Media Release

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Hamburger Rieger uses Voith efficiency system for the first time for White Top Testliner production

- **OnEfficiency.DIP ensures high raw material quality and low running costs**
- **Efficiency concept used for the first time for the production of packaging papers**
- **Automatic adjustment of flotation technology and input of chemical additives**
- **Virtual sensors predict contamination areas**

Heidenheim. Hamburger Rieger has engaged Voith to supply the complete stock preparation unit for its new PM 2 in Spremberg, Germany. Voith will deliver three separate stock preparation lines with a total capacity of 2,450 metric tons per day. Meri Environmental Solutions is responsible for the complete reject and water treatment facility.

The key to the stock preparation concept is the OnEfficiency.DIP (deinked pulp: recycled waste paper without color residues) system from Voith, which has already proven effective for the manufacture of graphic papers based on recovered paper. The efficiency concept is now being used for the first time in the production of packaging papers. In the stock preparation unit of the new PM 2, ultra-modern sensors and actuators ensure consistent raw material quality and low running costs.

The system consists of two DIP yield control modules, two DIP bleach control modules and a DIP optimizer. The DIP yield control module uses online sensors to measure the ash content and whiteness of the DIP stock. Using actuators, the flotation technology automatically adjusts it as necessary to obtain the required degree of whiteness. The DIP bleach control module also measures the whiteness before and after a bleaching step. If necessary, actuators also regulate the flow of chemical additives

here as well. The control modules are connected with the DIP optimizer, which defines optimum target values based on the optimization of running costs. The cost model takes account of relevant parameters such as energy, raw material and chemicals. This dynamic interaction between the individual components reduces quality fluctuations, which occur thanks to the heterogeneity of the raw material or production adjustments. This at the same time improves production costs.

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In the PM 2 in Spremberg, Voith is also testing a new prototype of a virtual sensor which uses the measurements in the stock storage tower and the process parameters to predict contamination areas. The DIP optimizer uses the model calculated in this process to optimally adjust the variables. The self-learning system allows for automated controls, which means that the full potential of the system can be reached sooner.

At present, only the OnEfficiency.DIP from Voith offers this kind of comprehensive performance. According to Hamburger Rieger this was a decisive factor in awarding the order for the stock preparation unit. With a tailored service package, Voith ensures that the OnEfficiency system will continue to perform optimally in the long term.

Following a groundbreaking ceremony on 26 September 2018, work began on Hamburger Rieger's new paper machine in Spremberg. From June 2020, the 7.8 m wide PM 2 will produce up to 500,000 metric tons a year of White Top Testliner with various basis weights. The two-loop DIP line produces the white top layer of the WTTL (White Top Test Liner). The paper manufacturer has opted for a particularly environmentally friendly de-inking system for stock preparation.

Hamburger Rieger is investing around EUR 370 million to build the PM 2 and is creating more than 200 new jobs in the Lusatia region. Hamburger Rieger is part of the Hamburger Containerboard Division of the Austrian Prinzhorn Group, whose annual production of more than two million metric tons makes it one of the market leaders in the segment for white uncoated and coated testliner.



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Caption: OnEfficiency.DIP ensures consistent raw material quality and low running costs in the stock preparation unit.

Learn more about Hamburger Rieger: <https://www.hamburger-containerboard.com>

Learn more about OnEfficiency: <http://voith.com/corp-en/products-services/automation-digital-solutions/onefficiency.html?107236%5b%5d=0>

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 large family-owned companies in Europe.

The Group Division Voith Paper is part of the Voith Group and a leading full-line supplier as well as pioneer in the paper industry. Through constant innovations Voith is optimizing the paper manufacturing process and facilitating resource-conserving production. With its Servolution concept, Voith offers its customers as reliable partner tailored service solutions for all sections of the production process. The company's Papermaking 4.0 concept ensures that equipment is optimally networked, while the effective

and secure use of the generated data enables paper manufacturers to improve their competitiveness.

The Group Division Voith Digital Ventures bundles the Voith Group's long standing automation and IT expertise with the deep know-how in the fields of water power, paper machines and drive engineering. As an incubator, this Group Division is pushing for the development of new digital products and services. For decisively shaping the digitalization of mechanical and plant engineering, Voith is driving the industrial Internet of things (IIoT) forward. The Group Division plays a central role in digital innovations and applications for new markets as well as the development and responsibility for existing and new digital venture activities.

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