

Media Release

Voith Paper

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Monitoring losses with the digitalization solution OnView.MassBalance for more sustainability and transparency in stock preparation

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- OnView.MassBalance visualizes losses in stock preparation and thus enables operators to take appropriate countermeasures easily and at an early stage
- Thanks to the digital solution, significantly more resource-efficient paper production is possible
- Successful customer installations demonstrate a two percent improvement in total yield

HEIDENHEIM. The recycling process in paper production is complex. Fluctuations in fiber quality and the degree of contamination of the recovered paper bales have a direct influence on production output. At the same time, resource efficiency is more important today than ever before. However, with the current state of the art, it is hardly possible to determine the specific causes of losses and optimize them directly. Yield is usually only measured on a weekly or monthly basis - by the time paper manufacturers receive the information, the losses have already occurred. Furthermore, it is very difficult to estimate whether losses in individual stock preparation areas have increased or decreased compared to the last analysis. To address these issues, the leading full-line supplier Voith has developed OnView.MassBalance.

The innovative digital tool displays losses in stock preparation in real time to further increase the sustainability and efficiency of paper production. At a glance, the operator can locate the specific areas with optimization potential on the screen. For this purpose, a Sankey diagram maps each feed, accepts and rejects at each process step. As soon as a critical value is reached, OnView.MassBalance reports this to avoid high losses. In this way, standardized processes can be established that can be quickly and easily performed by operators across different shifts. Suitable

countermeasures can be, for example, checking the pressure drop or the feed consistency of the last screening stage.

Successful customer installation

"The solution is already being used very successfully, for example in an OCC mill in France with an annual capacity of 250,000 tons," according to Flavio Granito, Global Product Manager Fiber System 4.0 at Voith Paper. "After the optimization phase, 600 tons of rejects, including raw material, could be saved per month. This corresponds to a two percent improvement in yield." As there is less rejects to dispose of and at the same time more paper can be produced with the same amount of raw materials, the solution pays for itself in less than a year. Flavio Granito further explains: "OnView.MassBalance is another example of how digitalization can strengthen more sustainable and cost-efficient papermaking. As part of our major sustainability program Papermaking for Life, we have set the goal of optimizing recycling processes and minimizing fiber losses. We aim to achieve a 90 percent recycling rate by 2030."

Installation and operation support

To calculate the mass balance in stock preparation, the innovative tool uses the signals from the sensors installed in the stock preparation plant. Voith experts identify the sensors required for this and develop a suitable concept together with the customer. Voith also separately offers the OnPerformanceLab (OPL) service. Based on bundled know-how, the OPL provides pragmatic support in analyzing losses, defining and implementing new countermeasures, and preparing monthly reports in close coordination with the respective paper technologists.

Sustainability program Papermaking for Life

Optimal production and resource savings with the help of the Papermaking 4.0 digitalization and automation portfolio are key topics of Voith's Papermaking for Life sustainability program. As part of the innovation and development offensive, Voith Paper presents versatile technologies and initiatives that lead to more efficient and sustainable processes in paper production. The focus is on water, energy and fiber savings as well as digitalization, innovations and partnerships as levers for more sustainable production. Learn more about Voith Paper's commitment to sustainability: voith.com/Papermaking-For-Life.

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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, paper, raw materials and transport & automotive. Founded in 1867, the company today has around 20,000 employees, sales of € 4.3 billion and locations in over 60 countries worldwide and is thus one of the larger family-owned companies in Europe.

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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 and products on the market and offers paper manufacturers holistic solutions from a single source. The company's continuous stream of innovations facilitates resource-conserving production and helps customers minimize their carbon footprint. With its leading automation products and digitalization solutions from the Papermaking 4.0 portfolio, Voith offers its customers state-of-the-art digital technologies to improve plant availability and efficiency for all sections of the production process.

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