

## Media Release

Voith Paper

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### Sustainable investment decisions pay off in daily stock preparation operations

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- Based on profound know-how and many years of experience, Voith offers the most sustainable and efficient solutions for stock preparation
- Already today, optimized solutions can achieve efficiency increases of between 20 and 30 percent
- Sustainability and efficiency lead to significant cost savings and maximized output

**HEIDENHEIM.** Sustainable production in stock preparation is not a vision for the future but already a reality today. Many existing plants benefit from solutions from Voith's leading BlueLine stock preparation portfolio. In the last five years, Voith experts have commissioned more than 30 plants with a total production capacity of 12.8 million tons per year. Voith has also launched more than 20 new innovative machines in recent years. Based on its experience, Voith is characterized by in-depth know-how and reliable, optimized process standards. In addition, the development of new solutions is part of Voith's sustainability program "Papermaking for Life." Every year, the technology company invests around 100 million euros in research and development of impetus-giving innovations that are intended to further increase sustainability and efficiency.

"As the leading full-line supplier, we not only focus on the individual machine components but also on the entire stock preparation process," confirms Andreas Heilig, Vice President Products Fiber Systems at Voith Paper. "Our BlueLine stock preparation portfolio is used in new plants worldwide. But upgrading existing plants to our solutions also pays off – both economically and in terms of sustainability and efficiency."

Falk Albrecht, Head of Process Technology Fiber Systems at Voith Paper, mentions, among other things, pump energy, which accounts for up to 50 percent of the energy consumption of a stock preparation system. There is great potential for optimization here, especially with existing, older systems. In order to minimize energy consumption, Voith solutions strive for the highest possible consistency level of the achievable quality parameters with the same technological performance. Savings of between 20 and 30 percent are already possible through this measure. At the same time, great attention is given to low pressure levels. Another product example for increasing energy efficiency is Voith's LowEnergyFlotation technology (LEF). Through its use, energy savings of up to 50 percent can be achieved in the flotation pumps, without negatively affecting the technological result.

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Customers also benefit from significantly lower water and energy consumption with the AquaLine water and wastewater management system, which is well thought-out in all aspects. The system, developed and optimized by Voith and Meri over many years, treats the process water biologically and thus reduces the COD and calcium content in the water. This saves fresh water and reduces the consumption of additive materials on the paper machine. The AquaLine Flex system variant enables fresh water consumption to be reduced to less than 5 liters per kg of paper produced. With the very technologically advanced AquaLine Zero solution, fresh water consumption is reduced to 1.5 liters per kg of paper produced. The use of the biogas produced as a substitute fuel for fossil fuels also led to a CO<sub>2</sub> reduction of around 10 percent in one German installation.

In addition to water management, high-performance process components are important in stock preparation. Modern disc filters produce excellent filtrate qualities that can be fed directly to biological treatment. Additional primary clarification is no longer required, which has a very positive effect on yield, investment costs and the environment. Significant energy savings can also be achieved with the new InduraClean heavy-weight cleaning system compared with conventional solutions. As part of the BlueLine stock preparation family, Voith presented the system, which consists of an improved cleaner bank, the new InduraClean IDC-4 and the optimized InduraClean IDC-5. Depending on requirements, the modular cleaning technology can be configured for significantly increased production, a high specific energy reduction of up to 50 percent, or significantly improved separation efficiency.

The OnView.MassBalance digitalization solution is another example of how sustainability and efficiency are combined in Voith's product portfolio. The innovative digital tool displays losses in stock preparation in real time, allowing the operator to identify optimization opportunities in specific areas at a glance and initiate appropriate countermeasures. In this way, high losses can be avoided, which is why the solution pays for itself after less than a year. In the future, stock preparation will become even more digitalized and autonomous. Voith experts are working on 24/7 real-time analysis of complex system interactions, which will allow automatic adaptation of process parameters to individual situations. At the same time, the need for manual intervention is reduced to a minimum. In addition, Voith is developing self-optimizing control systems that enable an optimal balance between production volume, efficiency and quality while maintaining the highest reliability based on daily updated cost models.

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### **Sustainability program Papermaking for Life**

As part of the innovation and development offensive "Papermaking for Life," Voith Paper presents versatile technologies and initiatives that lead to more efficient and sustainable processes in papermaking. The emphasis is on the topics of water, energy and fiber savings as well as digitalization, innovations and partnerships as levers for more sustainable production. Another focus is on Voith's own activities at its locations worldwide. Learn more about Voith Paper's innovations in the area of sustainability: [voith.com/papermaking-for-life/innovation](http://voith.com/papermaking-for-life/innovation).

### **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.

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 one 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.



In the last five years, Voith experts commissioned more than 30 plants with a total production capacity of 12.8 million tons per year. Shown here is Palm's customized BlueLine OCC system in Aalen.

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With its Papermaking for Life sustainability program, Voith is setting new standards in the paper industry.

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