

## Media Release

Voith Paper

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### **Voith's rebuild measures secure energy savings and efficiency increases in the dry end for Papierfabrik Jass**

2025-01-30

- Improvement in PM availability through better runability
- Energy savings through state-of-the-art heat recovery solutions
- Increase in web width to 5,160 mm
- Migration of the Voith QCS system into a new automation solution
- Reduced maintenance required

**FULDA.** In March 2024, Voith carried out extensive upgrades to the predryer section and the heat recovery of paper manufacturer Jass' PM 3 at its Fulda site. Since up to two-thirds of the energy consumed during paper production is required in the dryer section, Jass is achieving great savings potential and significantly increased machine availability at the site. The measures implemented during the month-long rebuild now show their effect: The company reports improved runability and energy savings in the dryer section of PM 3, which produces 280,000 tons of paper annually with basis weights of 120 to 140 g/m<sup>2</sup>.

Michael Habeck, Technical Director at Jass, emphasizes the smooth process and positive results of the measures: "Despite several parallel works, the rebuild went smoothly and within the scheduled time. Voith's expertise and good teamwork have contributed significantly to this success. We are extremely satisfied with the innovations, which we see as an important building block for our future." Stefan Kiel, Project Manager at Voith Paper, adds: "Our modular solutions are an effective way to modernize existing paper machines and unlock significant savings potential. With a rebuild phase of just under a month, we were able to

noticeably increase the efficiency of the production processes at Jass and at the same time achieve energy savings in the dryer section.”

### **Clean Design for smooth operations**

In the TG1 and TG2 dryer groups, Voith implemented a new Clean Design concept that was already introduced at the Schwarza plant in 2015. With this design, the drying process is carried out on internal guide rolls, which enables more convenient operation and has a positive effect on maintainability. In particular, the measure leads to an even more efficient and smoother production process. Modifications to the web stabilizers ensure stable web pickup from the dryer and good pocket ventilation. The dryer fabric tension was optimized with redundant sensors and the cleaning system was converted to Voith's CleanLine Extract4D, which cleans the fabric with four-directional water jets to increase the permeability of the fabric. This increases drying efficiency and significantly improves the runability of the machine.

### **High-performance dryer section hood and heat recovery**

The TG3, TG4 and TG5 dryer groups were replaced and a highly efficient EcoHood 65 dryer hood was installed. “With the rebuilt dryer hood, Jass can significantly increase its energy efficiency,” says Torben Schlieckau, Vice President Air Systems at Voith Paper. Compared to conventional dryer hoods with a dew point of around 60°C, energy savings of up to 25 percent are possible. Thanks to its closed design, the EcoHood 65 encapsulates the dryer section, thus ensuring maximum energy efficiency. At the same time, it provides safe access to the system through lift gates, access doors and screen change gates or via the hood roof to ensure optimal operation and maintenance. In addition, the EcoHood 65 is characterized by very good process control. Thanks to improved energy recovery, the drying process is significantly more efficient and the paper machine is more economical to operate. “For years, we have been supporting our customers in optimizing their heat recovery systems,” says Schlieckau. At Jass, appropriate measures have already proven successful before the PM 3. In 2017, the PM 4 was also equipped with the innovative air system.

### **Increased production capacity and automation**

As part of the rebuild, the dryer section was also technically upgraded for a new operating width of 5,160 mm (compatible with PM 4) and a stable production speed of up to 1,050 m/min. Existing automation solutions for the paper machine were migrated to the new process control system (PCS 7). This state-of-the-art control system combines all previous individual

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control systems as well as the Voith QCS quality control system to ensure smooth and efficient operation.

The successes at Jass are an impressive example of how a conversion to innovative and sustainable technologies can have an immediate and positive impact on both the bottom line and the environment. To save energy, Voith offers various options in the area of ventilation technology, including multilevel heat recovery systems for heating supply air, freshwater and whitewater heating and hall heating, as well as automation solutions such as OnC.HoodBalance and OnC.HallBalance for optimized operation.

Find more information at:

<https://voith.com/corp-en/industry-solutions/papermaking/rebuilds-and-optimization.html>

<https://voith.com/corp-en/papermaking/air-systems.html>

## About Jass

For people and nature. This is the guiding principle under which the Jass Group offers sustainability from a single source. With its three divisions JassFibre (recovered paper as raw material), JassPaper (containerboard) and JassBoard (corrugated board and cardboard sheets), the company covers the full paper cycle. As a leading European company that operates in the bio-economy, Jass employs around 800 workers in Fulda, Rudolstadt/Schwarza and Erfurt in Germany, as well as Gostyń and Dąbrowa Górnicza in Poland. Jass is family-run, a partnership, sustainable, and pioneering. More about us: <https://jass.com/en/>

## 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. Founded in 1867, Voith today has around 22,000 employees, sales of € 5.2 billion and locations in over 60 countries worldwide and thus is 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 integrated solutions from one source. The company's continuous stream of innovations facilitates resource-conserving production and supports customers in significantly reducing their carbon footprint. With its

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comprehensive automation products and leading digitalization solutions from the Papermaking 4.0 portfolio, Voith offers its customers state-of-the-art digital technologies to increase the availability and efficiency of their systems in all areas of the production process.



After successful rebuild: (from left to right) Philipp Katz, Stefan Kress, Oliver Meeß, Christoph König and Markus Luther at the PM 3 at Jass in Fulda.

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