

## Media Release

Voith Group

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### **SealView from Voith: Exploit the maximum wear capacity of seal strips with no risk**

2019-10-24

- Digital wear detection for seal strips in suction rolls
- No unscheduled machine downtimes and sufficient time to plan spare parts procurement
- A safe way to increase runtimes for suction rolls

**HEIDENHEIM, Germany.** SealView technology captures the development of wear on every single seal strip and can be used with conventional and Voith HydroSeal seal strip designs. Its functional principle is based on a non-electric solution, which ensures maximum reliability in the adverse suction roll environment.

#### **Digital wear detection for seal strips**

Seal strips in suction rolls delimit the individual vacuum zones and are subjected to constant wear as they are pressed against the rotating suction roll shell. At the moment, it is not possible to determine the current state of wear after its final assembly or while the roll is in operation. The right time for a roll change has therefore generally been determined based on empirical values. When operating parameters change, for example due to a failure of individual lubrication nozzles, an unexpected vacuum failure might occur which negatively influences the planned runtime of the roll.

With SealView, this risk is now a thing of the past. The new technology can be built into the suction roll – independently of roll design and brand – during a roll service at one of Voith's service centers. After changing the rolls, Voith personnel will do the initial commissioning and training at the paper machine.

#### **No unscheduled machine downtimes and sufficient time to plan replacement part procurement**

The system alerts the operator when the seal strip has reached half of its service life. When it gets to a safety margin before the maximum wear level, an alarm is triggered. Via a visual representation on a monitor, the system informs the operator about the actual wear condition and the

probable remaining service life of the seal strip, alerting the operator in good time to the necessity for a roll change. Moreover, the associated notifications are sent by email and are therefore available to personnel on their smartphones.

After receiving this information, the operator has sufficient time to systematically plan the disassembly of the roll and coordinate further action for a roll service and the procurement of replacement parts with the Voith service department. "A further advantage of the new SealView technology is that it is no longer necessary to keep an expensive set of seal strips inventory in the warehouse for emergencies. This helps customers to reduce working capital, a topic which plays a more and more important role in our industry," explains Jochen Honold, Global Product Manager Mechanical Roll Service, Voith Paper.

### **Longer suction roll service life and maximum reliability**

The system reveals its full potential, particularly in the case of runtime extensions over and beyond the usual lifetime. Because the seal strip wear is displayed, the operator can rely on the system over extended periods of use without worrying about an unscheduled downtime.

Voith has decades of experience in the maintenance of rolls in general and suction rolls in particular. Based on the information currently available, particularly important components need to actively communicate with the operating and maintenance system to achieve maximum reliability. Through its SealView technology, Voith has reached another milestone in implementing this approach in respect to Papermaking 4.0.

For more information on the SealView technology, please visit [voith.com/sealview](https://voith.com/sealview).

### **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 largest 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 a single source. The company's continuous stream of innovations takes papermaking to the next level and facilitates

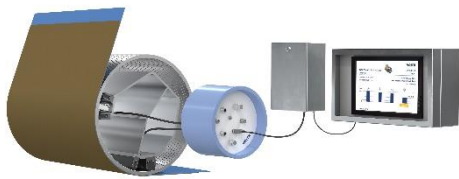
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resource-conserving production. With its Servolution concept, Voith offers its customers tailored service solutions for all sections of the production process. Voith Papermaking 4.0 ensures that equipment is optimally connected, while the secure use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



Non-electric wear detection for seal strips on suction rolls with SealView technology



Highest system reliability through seal strip wear tracking, even with extended run times

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