

## Media Release

Voith Paper

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### **New design of the successful automation solution OnQ FormingSens ensures optimized real-time measurement of water weight in the forming section**

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- Based on many years of experience and profound know-how, Voith improves the design of OnQ FormingSens for optimized lifetime, reliability and operator friendliness
- Thanks to real-time measurement, the operator continuously receives information about the dry content in the forming section and can optimize the vacuum settings
- In combination with the OnC.Dewatering automatic vacuum control system, layer bonding in the forming section can be improved and energy requirements reduced

**HEIDENHEIM.** OnQ FormingSens has a long track record of benefitting paper manufacturers of different grades, with more than 100 systems are already in use in the forming section worldwide. Thanks to microwave technology, the leading solution measures fluctuations in water weight precisely, reliably and in real time. Based on this information, papermakers can systematically improve their settings, achieve a stable dry content at the end of the forming section, and utilize the maximum dewatering capacity in the press section. At the same time, the optimized settings ensure less wear on the forming fabrics and ceramics. In addition, vacuum and drive energy usage can be reduced, which was confirmed, among others, by a Central European packaging papers manufacturer. Here, OnQ FormingSens reduces energy costs by around 130,000 euros per year and pays for itself in well under a year. For maximum user-friendliness and reliability, Voith experts have now further optimized the design of the solution.

"Compared to the previous OnQ FormingSens, the new generation has a significantly longer service life, flexible connection options to existing process control systems, and improved mechanical stability, thus enabling extremely reliable measurement results," says the responsible project

manager, Jörg Spindler, Manager Actuator Development at Voith Paper. The new design focuses on a solid, low-vibration construction, as well as a simplified electrical design. Among other things, Voith's experts reworked the mechanical mount so that the operator can now fine-tune the penetration depth from outside the machine via waterproof mechanical gear. The sensor holder can be flexibly positioned on various existing dewatering elements in the former. Compared to hand-held measuring devices, the permanently installed application is characterized by higher safety, as no direct contact of the operator with the forming fabrics is necessary. An improved sensor housing ensures higher long-term stability. The new generation OnQ FormingSens is installed to a nearby terminal box, which can be serviced by Voith experts via a service connection. This allows the optimized solution to be better connected to customers' existing infrastructures, such as the process control system.

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### **Combination with OnC.Dewatering dewatering control system**

Based on the measurements of OnQ FormingSens, the control loop can be closed with the fully automatic dewatering control OnC.Dewatering. The control system defines and stabilizes the dry content of each layer produced and thus significantly increases ply bond on multi-ply machines.

Further information on the automation solutions can be found here:  
<https://voith.com/corp-en/products-services/automation-digital-solutions/onquality.html?130226%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, 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 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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Compared to the previous OnQ FormingSens, the new generation features a significantly longer service life, flexible connectivity to existing process control systems and improved mechanical stability, enabling reliable measurement results.



The focus of the new design is on a reliable, low-vibration construction, as well as a simplified electrical design.

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