

## Media Release

Voith Group

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### OnQuality: Voith launches new generation of sensors

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- Higher product quality due to modular and fully independent sensors with optimized housings and integrated temperature stabilization
- Increased reliability and availability of the MD-Controls
- Delivering more power within smaller and lighter sensors that require less machine space
- Minimized maintenance effort through new plug & play standards

**HEIDENHEIM, GERMANY.** Voith has developed a new generation of sensors with regards to availability, reliability and maintenance handling. As the main components of the Quality Measurement System, the sensors measure the most important quality parameters of the paper being produced, such as basis weight, moisture, caliper and ash. The Quality Control System reduces as much as possible the variability in machine direction (MD) and cross direction (CD). This allows paper manufacturers to move quality targets in the most profitable operational zones – for example to maximize the moisture content of the paper.

#### **Higher product quality due to modular and fully independent sensors with optimized housings and integrated temperature stabilization**

The sensors and components are designed to operate in challenging environments under harsh conditions of the paper mill. Special, high-temperature housing options are no longer needed. The new temperature-stabilized housings are designed for ambient temperatures up to 100° C / 212° F.

#### **Increased reliability and availability of the machine direction controls**

A distinctive feature of Voith's control concept are the machine direction controls based on physical models of the paper machine. Voith's supervisory controls replicate the physical behavior of the process. The controls manage even high-frequent process disturbances. They also

effectively reduce the time for grade changes and therefore minimize production losses.

### **Delivering more power within smaller and lighter sensors**

The new sensor slots have been optimized in their width from 13 cm to 7.5 cm, which leads to smaller and lighter sensor packages, allowing more sensors to be installed in the available machine space.

### **Minimized maintenance effort with new plug & play principle**

The heart of the new sensors is a processor board that provides precise and fast signal and data processing. Sensor features are easy expandable via firmware upgrades. Configurations and calibration parameters are stored inside the sensor and can be changed remotely. Furthermore, the new plug & play functionality reduces complexity in maintenance.

Anchored in the Servolution approach, Voith takes care of the whole maintenance spectrum. Based on deep domain knowledge, the focus is not only on system maintenance. Voith service experts also check the measurement and control performances, monitor overall equipment condition and provide suggestions to optimize the process. Additionally, Voith is able to preserve the customer's investments by interfacing most types of existing third-party scanners and actuators.

For more information about the new sensor generation, please visit:

<http://www.voith.com/OnQuality>

### **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 € 4.3 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, 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 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

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connected, while the secure use of generated data enables paper manufacturers to improve plant availability and efficiency.

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The new sensor generation features a compact, lightweight design and increases the reliability and availability of the machine direction controls.

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**OnQuality.Sensors**  
New Generation

**VOITH**

Parameter	Parameter	Parameter	Parameter	Parameter	Parameter	Parameter
<b>Basis Weight</b> Measures the weight of the paper per unit area.	<b>Moisture</b> Measures the moisture content of the paper.	<b>Caliper</b> Measures the thickness of the paper.	<b>Ash</b> Measures the ash content of the paper.	<b>Color</b> Measures the color of the paper.	<b>Opacity</b> Measures the opacity of the paper.	<b>Surface Roughness</b> Measures the surface roughness of the paper.

Voith has developed a new generation of sensors that measure the most important quality parameters of the paper being produced, such as basis weight, moisture, caliper and ash.

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