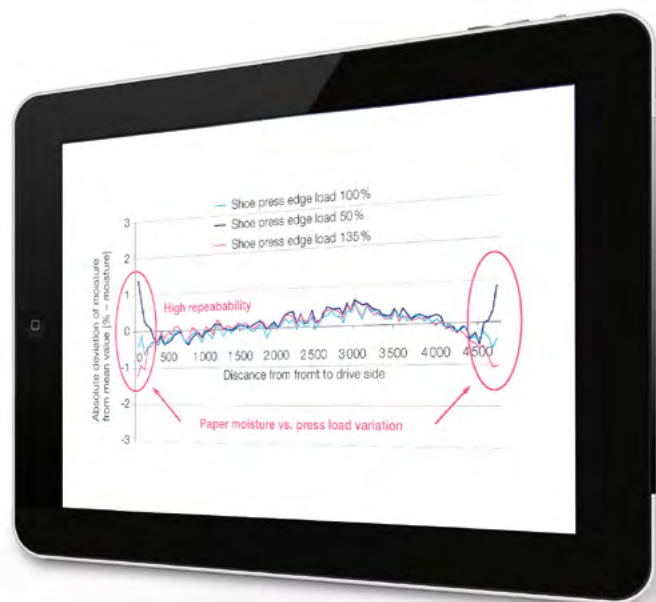


# Uniform moisture profiles for highest profitability

## Paper moisture profile analysis



### Your value

- + Increased productivity
- + Savings in production costs
- + Improved paper quality
- + Reduced energy costs – avoids over drying
- + Continued production during measurement
- + Report with recommendations and priorities

### Uniform moisture profiles

Uniformity of paper moisture profiles is one of the most important factors for efficient paper production. Improved moisture profiles can allow an increase in moisture level in order to reduce production costs or increase production capacity, whilst simultaneously improving product quality. Moisture uniformity affects the paper web's final properties and its response to further converting processes. The moisture cross-profile at the reel is usually automatically detected and controlled by the paper machine's quality control system. However, irregularities between the individual batches are not detected or are created by wrong corrections.

Moisture profiles of a paper web are usually controlled and visualized by the machine's quality control system. However, during problems these standard paper machine controls are generally insufficient or can be misleading in the search for a solution. Additional measurements during running of the paper machine enables us to visualize and analyze moisture profiles for immediate optimization of the influencing variables, such as actuator settings or improving the condition of paper machine clothing.

### Why Voith?

Our worldwide Voith Paper service specialists have the long-term experience to perform all necessary measurements along the paper machine in order to identify the root causes of defects in the moisture profile.

Our holistic approach starts by measuring the cross direction (CD) moisture profile, followed by investigation of moisture deviations in the machine direction (MD). We visualize the results and provide easy-to-read reporting with prioritized recommendations.

### We have extensive experience to perform all measurements using the latest tools and methods

The combination of experience, mobile near-infra-red (NIR) measuring system, microwave sensor (FormingSens), thermographic measurements and Tapio PMA paper sample testing results in a faster troubleshooting process and the best solution.

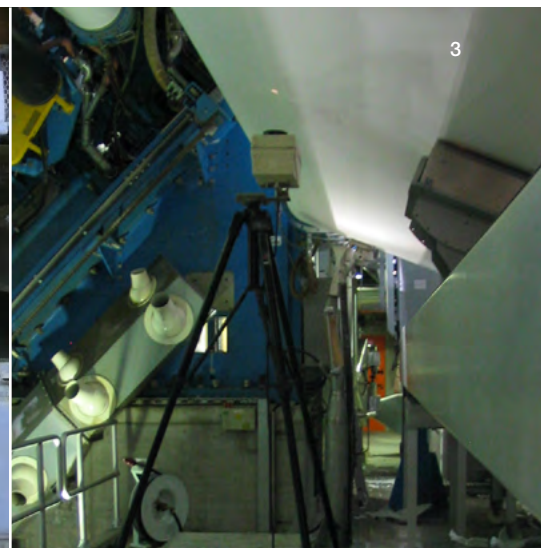
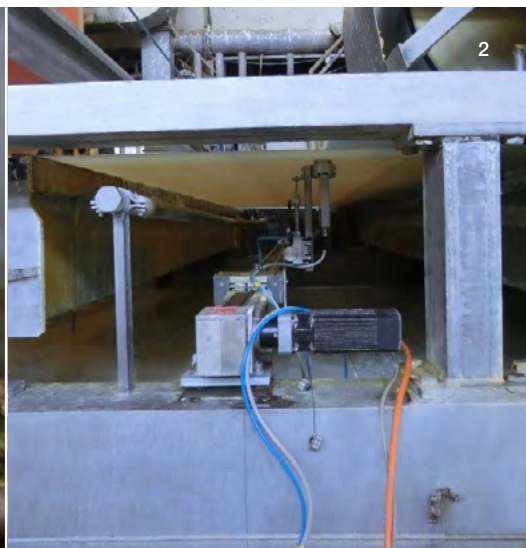
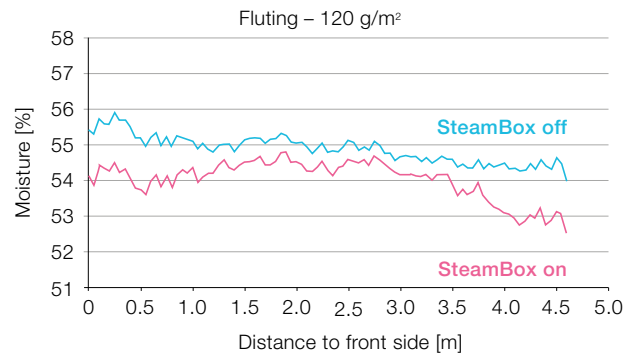
### Our scope of service

- Profile measurement without stopping production
- Visualization and profile analysis onsite
- Calibration of sensors
- Check of influencing variables (e. g. press, steam shower, vacuum, dryer section, QCS)
- Report with prioritized recommendations for troubleshooting and optimization

### Optional

- Tapio analysis
- Dryer section audit
- Approach flow stability analysis
- NipSense measurements

### Paper moisture profile after press section





## Equipment services

### Installation & commissioning services

- Installation service
- Commissioning service

### Maintenance

- Inspection
- Preventive maintenance
- Corrective maintenance
- Equipment improvement
- Repair & refurbishment

### Materials

- Spare parts
- Wear parts & consumables



## Process services

### Audits

- Production line
- Maintenance
- Digitalization
- Energy
- Safety
- IT-Security

### Expert support / consulting

- Smart monitoring
- Data analytics
- Condition monitoring
- Technology
- Maintenance
- Engineering
- Automation

### Training

- Equipment
- Operation / Technology
- Safety
- Methodology

### Measuring & diagnostics

- 3D scan
- Alignment service
- Approach flow stability
- MobiLab
- Paper moisture profile analysis
- Paper profile analysis (Tapio)
- Press load measurement
- SpeedUp certificate
- Vibration analysis



## Remote tools

- Telephone support
- VPN support
- Video support
- Cloud service

- 1 NIR sensor in the dryer section
- 2 FormingSens in the wire section
- 3 NIR sensor at calender inlet

Please click on this [link](#) or scan the QR code to visit our Measuring and Diagnostics Services:



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