



01 There will be no need for these dangerous manual measurements in the future thanks to Voith online measuring devices.

RISK-FREE ONLINE MEASUREMENTS IN THE WET END

IMPROVED SAFETY ON THE PAPER MACHINE

Safety of personnel is a critical element for all paper mills. When performing technical services on a paper machine, field personnel are exposed to a dangerous and sometimes unfamiliar environment. Online measurement systems from Voith eliminate this risk.

Above all, service work on running paper machines often holds real potential risk including measurement procedures in all sections. The existing procedure is in many cases manual and exposes the service representative to real danger. For this reason, Voith has developed online measurement systems that greatly reduce the risk of accidents, as they eliminate the need for manual measurement in the machine. Examples of this are OnQ FormingSens and OnV FeltView as well as the newly-developed ProTect, a self-traversing carriage.

Precise water weight measurement. The OnQ FormingSens sensor is equipped with high-frequency microwave sensor technology and measures the water weight online in the former

with the highest accuracy. Manual measurements are no longer necessary and the safety risk for the service personnel is practically eliminated. Radioactive sources, such as those used in many manual measuring devices, are not required with OnQ FormingSens. With the continuous data supply, the sensor is ideal for optimizing the dewatering performance and energy consumption in the former.

Dewatering in the press section in view. The OnV FeltView analysis system is suitable for continuous online measurement of fabric moisture and permeability of press section clothing. OnV FeltView also eliminates the need for manual measurements, a great benefit especially on fast-running machines. Continuous measurement supplies

valuable data in order to map dewatering in the press section and to optimize it accordingly.

Press felt measurements with self-sufficient carriage. Thanks to the new development ProTect, the safety of online measurements can be increased noticeably in the future. The system allows automated press felt measurements without service personnel having to enter the danger zone of the paper machine during operation. ProTect essentially consists of a self-traversing, self-sufficient carriage, into which measuring devices can be inserted outside of the fabric run. The system is operated by simply pressing a button; no more manual measurements. With the new ProTect system, fabric measurements will be possible at inaccessible places and without safety risks for the service personnel.

After the successful series of tests at the Voith Paper Technology Center (PTC), a prototype of the ProTect system is currently undergoing field trials. The system is expected to be available to the market mid 2012. //

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