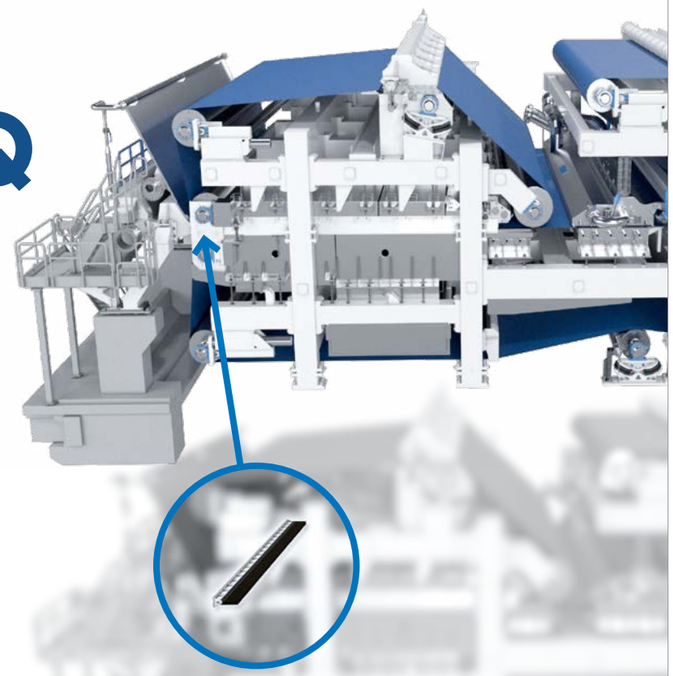
SPOTLIGHT ON

Sensing wear level to increase plant uptime

Metris DryQ Sensing Sealing Lip



The Metris DryQ Sensing Sealing Lip is able to determine its own wear status and thus fosters the ability to provide predictive maintenance to plant operations.

Plant operations have the opportunity to benefit from the DryQ Sensing Sealing Lip by an increase in system uptime resulting from an online indication of its wear status and a prediction of its end of life, allowing more accurate planning, scheduling, and executing of maintenance work. Furthermore, by integration of the information into the plant's ERP system, the ordering and spare part handling process can be further automated and simplified.

Highest uptime is of paramount importance in order to operate pulp production equipment in a sustainable and economical way. That is why sealing lips, being wear parts, are normally replaced at regular intervals.

ANDRITZ has improved the situation by developing the DryQ Sensing Sealing Lip that detects its wear level and reports online via a dedicated measurement unit to the mill's control system. A sensor strip is embedded in the special carbon fiber sealing lip to deliver information relating to the sealing lip's current condition.

The intelligent sensor features a visualization of the current wear status, including a prediction of the end-of-life that is achieved by combining its own data with the relevant machine information. This information can be exchanged with the mill's distributed control system via standard interfaces, enabling maintenance stops to be planned optimally and with the lowest risk.

METRIS DryQ – DIGITAL PULP DRYING SOLUTIONS

ANDRITZ offers a broad and constantly growing range of digital products and services that help customers enhance plant efficiency, profitability, and ecological footprint through resource optimization, constant achievement of the expected product quality, increases in production uptime, and operator-friendly interfaces. Metris DryQ offers this range of digital pulp drying solutions in the form of Smart and Autonomous Systems, Analytic Solutions, and Connect-to-Expert support, fully specific to customers' needs.

CONTACT US FOR FURTHER INFORMATION:

Georg Brückler
georg.brueckler@andritz.com
or **andritz.com/dryq**

ANDRITZ service center Levice – Support close at hand for your pulping equipment

Extended pulper life-time, optimized process stability and increased production output

We offer upgrades and repairs for all types of rotors and screen plates, independent of the OEM – now also at our ANDRITZ service center in Levice in Slovakia! Thanks to our many years of experience in the development and manufacturing of stock preparation equipment, we can provide a wide range of services for pulping and the surrounding processes, including:

- **Audit and inspections**
- **Restoration of the original rotor geometry**
- **Machining and balancing**
- **Application of wear protection**
- **Upgrading with guide vanes and cutting blades**

In addition, pulping systems can be analyzed for optimizations with the aim of increasing the production output and process efficiency.

We are enthusiastic and we love what we do. We use our knowledge, skills, tools, and techniques to succeed in every area of work.

For further information, visit our ANDRITZ Pulper service website **andritz.com/pulper-service**

Metris Risk-based management – a holistic, factory-wide concept

It is now state-of-the-art that single assets or devices can self-diagnose well, utilizing AI methods and also predict their impending problems. The Metris Risk based management approach goes much further. For the state of health of individual process areas, it will calculate automatically the technical production risk, which can be very high for singular units, but low for redundant concepts.

Risk Based Management (RBM) calculates the complete asset health, together with maintenance risks and Cyber Security vulnerability of the whole factory.

- **Condition monitoring for critical assets (motors, valves, pumps, …)**
- **Calculation of individual production risks (single source, redundant equipment, …)**
- **Embedding maintenance risks (maintenance routes, inspections, …)**
- **Including cyber security risks (vulnerabilities, remote access, …)**

As the industry is heading towards autonomous production, Metris Risk-based Management serves as an integrated layer for stable and reliable processes covering the equipment health and security conditions of the whole mill.

CUSTOMER BENEFITS

- Highest asset availability by means of risk identification with a holistic factory-wide view
- Maximum security through unique approach with embedded OT cyber security vulnerability check
- Excellent efficiency of maintenance resources available, focusing on the "right assets"
- Ideal contribution towards finding the optimum for specific maintenance costs

Watch our video