CASE STUDY

Holmen Paper

A-series Installation

01 CUSTOMER BACKGROUND

02 CHALLENGE

03 SOLUTION

04 RESULTS

01 CUSTOMER BACKGROUND

The paper mill in Hallstavik, located about 90 km north of Stockholm, was founded in 1913 and is now part of the Swedish company Holmen Paper.

The mill operates four paper machines producing 700,000–800,000 tonnes of printing paper annually for newspapers and magazines. As an integrated pulp and paper mill, all pulp is produced and supplied internally, including thermo mechanical pulp (TMP), de-inked pulp, and ground wood pulp.

Eletta Flow Monitors have been used at the Hallstavik mill since the 1960s, particularly in the production of thermo mechanical pulp. The partnership between Holmen Paper and Eletta exemplifies long-term reliability and trust, strengthened by Eletta's commitment to durable and efficient flow monitoring solutions.

02 CHALLENGE

The Hallstavik mill's high-speed refiners, manufactured by Andritz, are critical in the production of thermo mechanical pulp.
Each refiner operates at 17 MW, requiring precise monitoring of both flush water for rubber sealings and lubricating oil for the refiners and electrical engines.

Key challenges included:

- Ensuring accurate flow measurement for both oil and water.
- Integrating the monitoring system into a modern DCS (Distributed Control System) environment.
- Maintaining high reliability to avoid costly process interruptions.
- Reducing costs compared to magnetic flow meters, while still meeting operational accuracy requirements.
- Standardizing on one supplier to simplify maintenance and spare parts management.

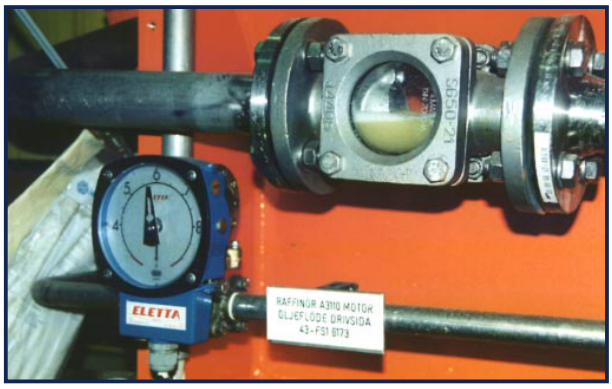
03 SOLUTION

After evaluation, Eletta's A-series flow monitor was chosen as the optimal solution.

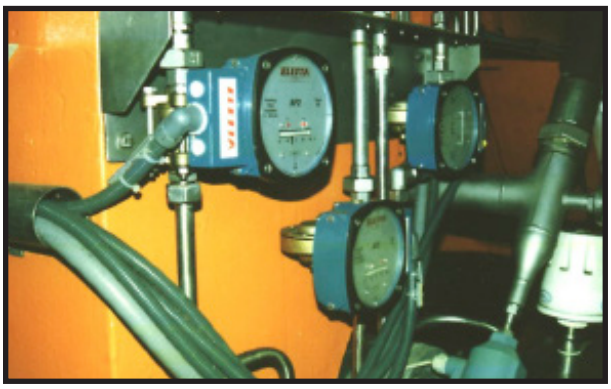
The A-series, equipped with 4–20 mA output and adjustable relays, met the need for standardization and compatibility with the DCS system.

Holmen specified that the four Andritz refiners should each be equipped with Eletta A5 flow monitors — in total 21 units — to measure lubricating oil and flush water.

The installation provided operators with a complete process overview, integrating thermometers, pressure gauges, and pressure switches. This setup made it possible to detect deviations early, prevent potential breakdowns, and adjust alarms remotely — minimizing downtime and maintenance costs.



The differential pressure principle, well suited for measuring flows of both oil and water



There are four paper machines producing 700 – 800 000 tonnes, of printing paper

04 RESULTS

The implementation of Eletta's A-series delivered several key benefits:

- High reliability: Proven long-term performance since the 1960s strengthened trust in Eletta's equipment.
- Versatility: One instrument capable of measuring both oil and water flows.
- Cost-efficiency: More favorable pricing compared to magnetic flow meters.
- Process control: Continuous monitoring via 4–20 mA output and adjustable relays improved operational safety.
- Standardization: Simplified system integration and maintenance through a single, unified flow monitoring solution.

Holmen Paper's ongoing use of Eletta flow monitors illustrates how a combination of reliability, versatility, and cost-efficiency builds enduring customer relationships within the pulp and paper industry.

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