

Proven performance of the world's first SALOMIX™ SSF

Ahlstrom-Munksjö is one of the world's leading players in sustainable and innovative fiber-based solutions. In connection with an annual shut-down at the company's Billingsfors pulp and paper mill in Sweden, Sulzer delivered its first SALOMIX SSF agitator for the swell tank. The agitator was installed in January 2020

The challenge

The swell tank is located before the final refiners, just ahead of the headbox. Therefore, high reliability, good mixing performance and energy efficiency are key requirements for the agitator. The stock consistency is normally 3.2% with various kraft pulp types.

The solution

The SALOMIX SSF agitator demonstrated steady performance in the world's first installation right from start-up. It was installed in the swell tank, replacing an old SALOMIX SLF agitator. The new agitator is equipped with a high-efficiency EX3 propeller, which has lowered power consumption by 10% versus the previous SALOMIX agitator with an MX4 impeller. The seal solution is water free, using Sulzer's grease-lubricated double mechanical seal SAC2G.

"The agitator has been running very smoothly ever since start-up. The power consumption has been reduced by about 10% with the EX3 propeller compared to the previous one." Michael Pettersson Maintenance Engineer, Ahlstrom-Munksjö Billingsfors.

Customer benefit

The higher propeller efficiency can be utilized either for energy savings or for increasing the production capacity.

- high reliability and smooth operation
- water-free mechanical seal
- compact installation
- possibility to achieve more power savings if blade angle is reduced

Product data

Agitator model: SALOMIX SSF60-80L with 11 kW motor

Propeller: EX3-800

Power savings: Approximately 10% and 1 kW versus the previous SALOMIX installation with MX4 propeller

Seal type: double mechanical with grease lubrication Sulzer SAC2G

Read more about the [SALOMIX family](#).

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About Sulzer

Sulzer is a global leader in fluid engineering. We specialize in pumping, agitation, mixing, separation and application technologies for fluids of all types. Our customers benefit from our commitment to innovation, performance and quality and from our responsive network of 180 world-class production facilities and service centers across the globe. Sulzer has been headquartered in Winterthur, Switzerland, since 1834. In 2020, our 15'000 employees delivered revenues of CHF 3.3 billion. Our shares are traded on the SIX Swiss Exchange (SIX: SUN). The Pumps Equipment division specializes in pumping solutions specifically engineered for the processes of our customers. We provide pumps, agitators, compressors, grinders and screens developed through intensive research and development in fluid dynamics and advanced materials. We are a market leader in pumping solutions for water, oil and gas, power, chemicals and most industrial segments.

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