

## UNBLEACHED LONG FIBER SULFATE SCREENING OPTIMIZATION

An Austrian pulp and paper mill with an existing screening system for unbleached long fiber sulfate pulp faced capacity issues. Increase of capacity always ended up in plugging and/or bad accept quality.

Previous trials with different potential suppliers of screening equipment failed.

AFT (Aikawa Fiber Technologies) and their local representative Flowtec were asked to help to identify the bottlenecks and adapt the screening technology. A robust and precise screening technique was required. The screening machines should stay as they are, due to limitations in space.

After detailed survey of the existing screening system, AFT worked out a proposal, which was then finally discussed with the customer's specialists. The discussion brought up that also the slot in between the screen basket and rotor had to be bigger than a certain number, in order to prevent blocking of the screen rotor and/or demolition of the screen basket.

AFT, together with the customer, decided to go with the new rotor generation, GHC2, which has a very efficient and energy-saving performance with much lower reject thickening compared to others. In combination with the screen basket with the right configuration (bar width, bar angle and slot width) it was possible to reach the target capacity of 1,700 tpd. As a second step, also the second stage accept was put forward into the system, which led to overall lower slot passing velocity and even better accept pulp quality than ever before.



This system is now in successful operation for more than eighteen months without maintenance in the primary stage, the secondary stage has so far run smoothly for almost one year.

The customer is very happy with the situation today. They have reached the targeted capacity at very good accept quality. The operators and the maintenance team can focus on other jobs now.

