

# LEIPA'S MISSION

Environmental  
protection at all levels

LEIPA, in Schwedt an der Oder in the German state of Brandenburg, continues on its serious mission when it comes to environmental protection – each individual process step in the production lines must make a contribution at the mill. ANDRITZ took this mission on board during the rebuild of the screening plant in DIP1.

Sebastian Stockfisch – head of the two deinking plants and the effluent treatment system at LEIPA Georg Leinfelder GmbH in Schwedt – speaks frankly about the mill's original screening plant in DIP1, "We needed a separate machine operator just for this tailing screen to move and re-adjust the levers again and again in order to avoid excessive losses." LEIPA had

tried for some time to find a solution to the continual problems in the screening plant – above all the strikingly high fiber losses – and to determine the right settings for the tailing screen.

It was clear to LEIPA that a rebuild of DIP1 coarse and fine screening plants was needed to lower pulp losses and improve pulp quality



Loose deinking material (illustrated magazines and newsprint) and coated magazines are fed to DIP1.

and that energy savings would also have to be one of the targets. "We had to make the project pay for itself as well, and that is not possible simply by increasing the yield," Stockfisch explains.

## BUILDING ON AN EXISTING TRACK RECORD

LEIPA in Schwedt already had a successful track record in rebuild projects with ANDRITZ with a DIP1 screw press project in 2013, which then halved the energy consumption of the unit.

In the case of the screening plant rebuild, ANDRITZ suggested a consistent technological solution to LEIPA. In addition to replacing the inadequate tailing screen with a new ModuScreen T4C, the two screens in the first and second stages of preliminary screening were to be fitted with the latest slotted screen baskets and rotors from ANDRITZ.

Also added to the scope of supply was a new standpipe and a feed pump to the final stage as well as a new AhlCleaner RB300HD4 high-consistency cleaner to protect the new screen. In the fine screening sector, a new ModuScreen A44 was planned as the first stage, while existing screens would be used in the second,

third, and fourth screening stages – stage three preceded by an HD-cleaner from the existing equipment. All screens were also to receive new screen baskets and rotors from ANDRITZ.

The turnkey supply agreed with ANDRITZ included detailed engineering, all drive motors, complete instrumentation, piping and supports required for the rebuild, electrical installation work including adjustments to the DCS and MCC, complete installation work (mechanical, electrical, pipework, and machinery), as well as start-up with trial opera-

tion and training. "LEIPA ordered an all-round package with ANDRITZ as general contractor," ANDRITZ project manager Markus Mairitsch explains.

## MISSION ACCOMPLISHED

Start-up was at the beginning of October 2014 and the result was impressive. The agreed reduction in weight losses to a maximum of 7 kg/min otro was achieved quickly, as was the guaranteed capacity and the increase in capture rate for stickies.



Sebastian Stockfisch, head of deinking and effluent treatment at LEIPA (right), and Markus Mairitsch, ANDRITZ project manager, beside the new ModuScreen T4C tailing screen.



The new ModuScreen T4C screen from ANDRITZ played a central role in the rebuild of the preliminary screening plant. This special, two-stage tailing screen operates with centripetal force in the lower area with a rotating screen basket perforation diameter of 2.0 mm and with centrifugal force in the top section under atmospheric pressure with a screen basket hole diameter of 2.2 mm. It is not sensitive to spinning and keeps the fiber content in the reject to a minimum. With good screening efficiency, the reject leaves the screen with a high dryness of approximately 20%.

The new ANDRITZ ModuScreen A44 in the fine screening plant has achieved excellent screening as a result of the special screen basket/rotor concept. The new Bar-Tec rejector screen baskets used in coarse screening (slot width 0.4 mm) with patented bar profile achieve better removal of impurities compared to the perforated screen baskets used so far and feature low energy consumption.

In order to secure the energy savings of over 20% as agreed in the contract, a few optimiza-

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**SEBASTIAN STOCKFISCH**  
Head of deinking and effluent treatment, LEIPA



tions were needed first of all, but were completed quickly. "There are always small snags in any project. But everything was resolved very well overall," Gerhard Laue, LEIPA project manager, confirms satisfactory execution of the project. "At last, we no longer have to think about screening any more after this rebuild – that is certainly the biggest compliment for ANDRITZ as supplier."

"Just like the screw press rebuild in 2013, this optimization demonstrated that changes to individual units or sub-systems influence the ecological footprint of the entire company," Stockfisch concludes.

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# MANAGING RISK IN THE PULP AND PAPER INDUSTRY

Interview with Jimmy Onstead, Staff Vice President and Principal Engineer Forest Products at specialist pulp and paper industry insurer, FM Global

*"I expect mills will be much more automated, and with more internet connectivity."*