



Hamburger Spremberg orders new recovered fibre plant

W. Hamburger AG is an Austrian paper group specializing in the production of high-grade corrugating medium and packaging papers.



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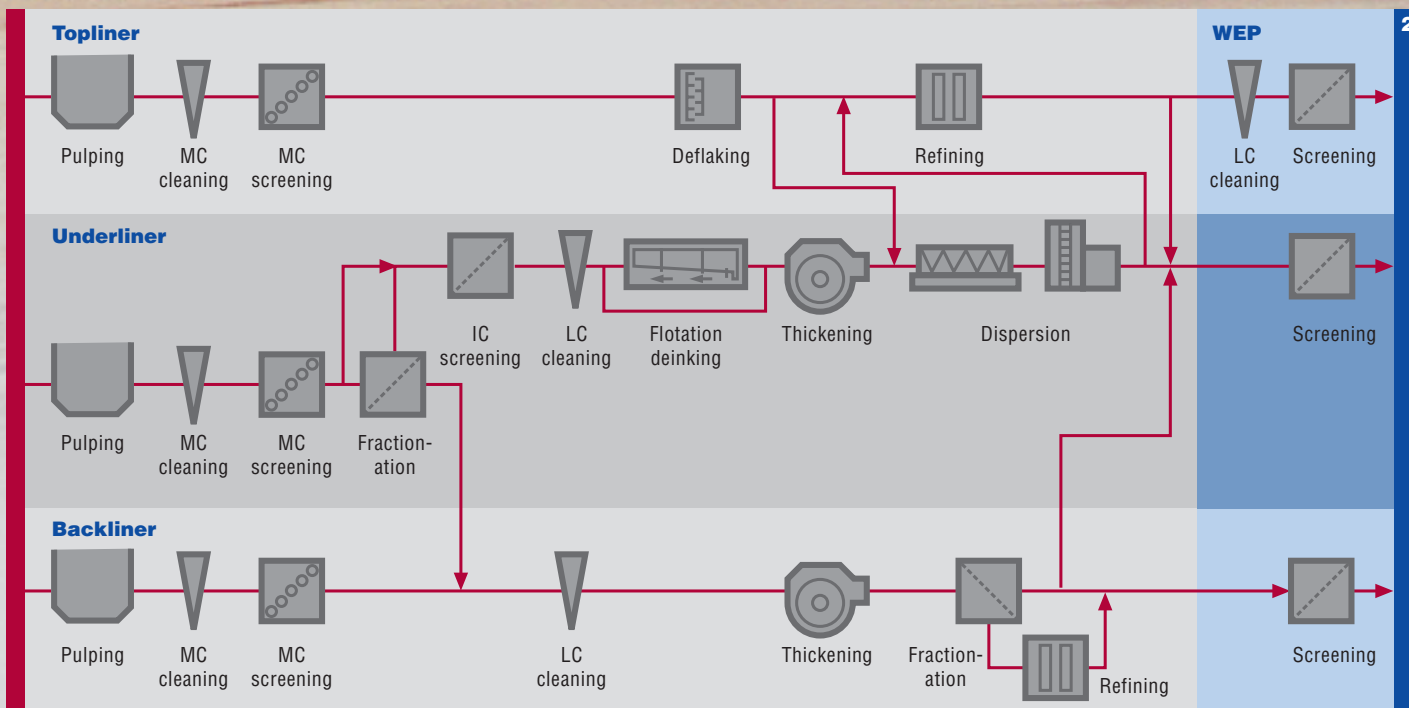
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Following Voith's orders for complete stock preparation lines for packaging papers received last year from Wuxi Longcheng / China, Emin Leydier / France and Adolf Jass, Schwarza / Germany, the Austrian paper group Hamburger signed the latest order with Voith in November 2003. The new plant is being built on the Schwarze Pumpe industrial estate, Spremberg in Lausitz/Brandenburg, Germany on the site of a former power plant.

The investment, which will have a total capacity of approximately 265,000 t/year, is the largest project in the history of the Hamburger Group and also an important factor in the development of the region. Long term the new mill will create over 260 jobs and 24 trainee placements.

The 100% recovered fibre plant is designed for a total capacity of 1,500 t/24 h. Voith's delivery will comprise three separate stock preparation lines for topline, underliner and backliner, including approach flow system screening and broke pulping under the paper machine. The stock preparation system includes pulping, screening, fractionation, cleaning, flotation deinking, dispersion, thickening, refining, as well as process water and reject handling technology.

For the underliner and backliner lines the pulping system consists in each case of a Unipulper, a Junkomat, Contaminex for handling the pulper discharge and a ragger. For coarse screening the mill will use disc screens (turboseparators) for the



first two screening stages followed by a Combisorter for the final stage. For refining the long fibre, TwinFlo refining will be used in the underliner and backliner lines. The underliner line can be fed with brown as well as white recovered paper grades, depending on whether fluting, testliner or white top testliner is being produced. Where white recovered papers are used, this furnish is first cleaned using EcoMizer technology and then passed to an EcoCell flotation deinking plant for removal of printing inks. A dispersion stage follows using a DX disc disperger for the efficient separation of any residual printing inks from the fibres and their reduction in size, as well as for the reduction in size of dirt specks and stickies.

Stock thickening is provided by a Thune bagless disc filter and a Thune screw press. Here, too, Hamburger has decided on the most modern technology available today.

Meri Entsorgungstechnik, Munich, a Voith Paper joint venture partner, is supplying all equipment for rejects handling and water treatment such as Compactor, two Elephant thickeners, Sedimator, two Screenex units as well as various conveyors.

In the approach flow systems, a sensitive area and decisive for obtaining a superior and consistent end product quality, MultiScreen technology, equipped with C-bar screen baskets is being installed.

Fig. 1: The construction site in Spremberg.

Fig. 2: Schematic diagram of Spremberg's stock preparation system.

Voith is also responsible for the delivery of CompactPulpers, the new generation of broke pulpers under the paper machine.

Apart from equipment, Voith will supply the process, control and instrumentation engineering services as well as supervise erection and commissioning.

The new paper mill is scheduled to come on stream in the second quarter of 2005.