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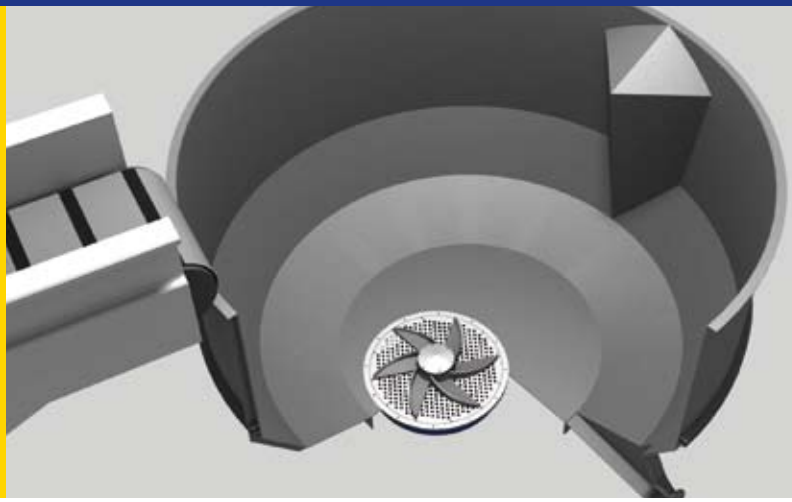
The Japanese Sasaki-prize certificate.



The new IntensaPulper IP-R.

The effect of these measures is impressive. “In a specific case, we optimized a Hydrapulper in a Japanese paper plant in such a way that the specific energy requirement was reduced by 50%,” according to Masakazu Eguchi. With an actual input power of 560 kW, 450 tons of recovered paper per day (air-dried) had previously been pulped at this facility. After the conversion with IntensaTechnology, the power input is only 420 kW, although the production quantity was increased to 750 t/d. Two other Japanese facilities that process JOCC as raw material were likewise successfully converted.

Contact

Naoyuki Iwashige
naoyuki.iwashige@voith.ihi.co.jp

Customer trials at the Voith Paper FTC in Ravensburg

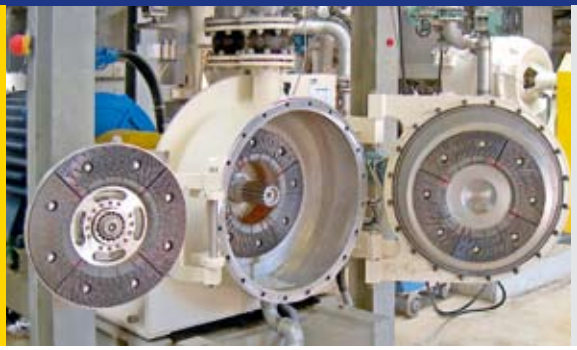
The birthplace of new solutions in stock preparation

The Voith Paper Fiber Systems Technology Center (FTC) in Ravensburg focuses entirely on stock preparation – which influences the complete paper manufacturing process. At the FTC, Voith Paper develops customized process and system solutions that often set benchmarks for the future.

“We always had problems with contaminants in our stock preparation line that caused papermaking irregularities,” explains Christopher Kaessberger, head of stock preparation at Rieger Paper, Trostberg.

Voith specialists came to the rescue by thoroughly testing and analyzing his stock preparation system with several simulation trials in the FTC. In teamwork with the customer, they then worked out a highly efficient screening system that has effectively banned this problem ever since. At the heart of the FTC is a highly versatile trial facility where stock preparation processes for all paper grades can be reproduced under realistic production conditions. This is complemented by a state-of-the-art paper analysis laboratory. The Voith FTC not only solves customer problems, but also works out superior solutions in stock preparation. “Quality, costs and sustainability are always the primary criteria in papermaking,“ points out FTC trial engineer Yvonne Waibel, “Which is why many of our trials are aimed at using lower-cost raw materials while increasing yield and reducing overall process energy costs.” More importantly, in every case is to complying with quality requirements, at the same time minimizing investment and operating costs.

The worldwide network of Voith Paper Technology Centers.



TwinFlo refiner with energy-saving Pluralis filling.

Flexibility à la carte

Our FTC team experts show how process risks can be minimized both for rebuilds and new installations. “That helps our customers to reach decisions on plant modernization and investment in future-oriented technologies,” says Armin Volk, European sales manager of Voith Paper Fiber Systems. The FTC is so flexible that not only individual machines and subsystems can be tested, but also complete systems. Depending on scope, trials generally take one to four days.

“It is important to us that our customers get the individual support they expect,“ explains Armin Volk, “That is why our laboratory services are also available to them whether or not they take advantage of the FTC trial facilities.” Voith customers frequently use this fully equipped paper laboratory for analyzing samples from their own stock preparation lines.
Customer trials at the FTC incorporate the latest Voith Paper product developments. For example: the new energy-saving Pluralis refiner fillings, or the energy-efficient IntensaPulper.

A worldwide network

The FTC belongs to the global network of Voith Paper technology centers that cooperate as a worldwide team. All the latest findings at our Heidenheim and Krefeld trial centers in Germany, Motomiya in Japan, and São Paulo in Brazil flow into the FTC activities. This network also enables stock, prepared in the FTC, to undergo further trials on one of the Voith paper machine test facilities. Apart from the board and packaging paper machine also located in Ravensburg, these include, for example, the graphical paper machine test facility at the Paper Technology Center (PTC) in Heidenheim. Our customers therefore profit from the networked synergy of Voith development findings worldwide.

Contact

Harald Hess
harald.hess@voith.com

“We were very impressed by the comprehensiveness of this test facility, the conclusive test results, and the professional competence of Voith Paper’s test engineers.”

Christopher Kaessberger, stock preparation line manager at Rieger paper mill in Trostberg, Germany