

STOCK PREPARATION EFFICIENT AS NEVER BEFORE

# BLUELINE: SUSTAINABLE SOLUTIONS FOR THE FUTURE

Modern stock preparation has to provide maximum performance with the highest system efficiency. Efficiency means not only using less energy, fiber and water, but also sustainability in terms of quality and reliability – consistent with Voith values. After three years of development work, Voith presents its new product portfolio for stock preparation that addresses these issues: BlueLine.

The new BlueLine product line is tailored to the needs of the modern, environmentally friendly paper industry. With BlueLine, customers profit from proven Voith quality and reliability and at the same time low energy, fiber, water and maintenance costs.

**Reliable and maintenance-free.** Among the first available BlueLine products for stock preparation are the IntensaPulper, the IntensaMaXX pulper detaching machine and the IntegraGuard headbox screen. But special attention should be paid to the InfiltraDiscfilter here. Voith has set a new standard in dewatering and filtering of pulp in stock preparation with this product. Thus the InfiltraDiscfilter ensures pulp suspensions are dewatered more reliably and free of maintenance than ever

before – and with the highest specific capacity industry-wide.

**Higher filtrate quality.** The core of the InfiltraDiscfilter is the improved version of the BaglessPlus filter disc in combination with a new design of the center shaft. The corrugated surface of the disc, which is made of rugged steel, increases the filter surface and thus the capacity of the disc filter. At the same time the knock-off of the fiber mat was improved. Another plus is the reduced maintenance costs. This is because the steel discs are nearly maintenance-free. Conventional disc filter sectors have bags made of synthetic fiber fabrics that show tears after a certain amount of time. Thus the bags of the conventional sectors often have to be replaced after one year so as to function flawlessly. This dismantling

and installation results in high costs that are avoidable with the Bagless-Plus sectors. The new technology thus improves fiber yield and service life of the disc filter.

**From theory to practice.** Laboratory conditions frequently deviate from those in the real world. The InfiltraDiscfilter thus had to prove itself in practice with customers. The touchstone was the parallel test run of three different units in two different plants. The practical test was first done on a deinking system at a paper mill in Annaberg, Germany, and then on an OCC system in Malaysia. As different as the areas of use may have been, the problem-free installation and startup of the new disc filters were impressive in both locations and systems.



01



02



03

The high quality of the filtrate at the dewatering facility in Malaysia was especially surprising. Both plants noted an increase in yield as a result of the improved process. "We were impressed by how quickly and flawlessly Voith implemented and started up the Infiltra-Discfilter," says Holger Hampel, Manager of the Schönfelder Papierfabrik GmbH in Annaberg. "Voith has completely fulfilled all the promises it made."

**First choice in the WEP.** The bottom line is, InfiltraDiscfilter is not just an outstanding dewatering machine, but also the first choice for fiber recovery in the wet end process. In save-all applications, it achieves convincing results in combination with the new space-saving 4-port valve from Voith in obtaining various filtrate qualities. As a result, the

quality of the filtrate is optimal, and the capacity is high thanks to the high and stable vacuum.

**Looking ahead.** Voith is already on the starting blocks with additional product development for the BlueLine product line. Soon three other product innovations from Voith are coming on the market with the IntegraScreen, the Intensa-Drum pulping drum and the Infiltra-Screwpress dewatering machine. //

#### Technical Contact



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#### BlueLine: benefits

##### 01 IntensaMaxx detaching machine

- + Less maintenance time
- + The highest operational reliability
- + The lowest amount of wear
- + Less energy consumption than with the Fiberizer
- + More than 30 units already sold

##### 02 IntensaPulper stock pulper

- + 20% less energy consumption than conventional pulpers with the same pulping quality
- + Optimized flow pattern due to excentric container design
- + High level of pulping efficiency due to improved rotor design
- + More than 50 units already sold

##### 03 InfiltraDiscfilter

- + Lastingly stable and outstanding filtrate values
- + The highest specific capacity industry-wide
- + Easy and compact installation
- + Cost savings thanks to low maintenance outlay
- + Very good fiber recovery
- + Already around 20 units sold