Press Release

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New screw press from Voith: high dewatering performance and low energy consumption, with minimum maintenance required

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With the new InfiltraScrewpress, Voith is launching another product to join its BlueLine range of stock preparation machines, that impresses with its high dewatering performance, improved energy efficiency and low maintenance outlay. As part of Voith's Compact Dispersion System it has been successfully in operation at a number of paper manufacturing sites.

The Compact Dispersion System by Voith is a dispersion system featuring outstanding performance in the reduction of stickies and spot contamination. Further benefits are low energy consumption and space requirements, as well as high system availability. The Compact Dispersion System by Voith includes the InfiltraScrewpress, the InfibraHeater quick heating screw and the InfibraDisp disperser, which has also been newly developed. These machines also belong to the BlueLine product range.

The InfiltraScrewpress boasts a design that is more than ten times stiffer than comparable machines, complementing its low center of gravity. This ensures the machine's very tight tolerances over the entire operation cycle, allowing high dewatering performance and minimal fiber loss to be achieved. It is equipped with a double-thread press screw. The fiber suspension is fed into the screw press at a stock consistency of 8 – 12 % and is then transported by the press screw in axial direction. The suspension is thickened by the constricting volumes between press screw and screen baskets. Excess water is discharged via the screen baskets. The filtrate can thus be pressed out of the suspension and discharged via the screen baskets of the new SplitScreen screen elements. The remaining pulp is conveyed at a stock consistency of around 30% via the outlet of the screw press to the InfibraHeater quick heating screw.

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The double-thread design of the screw press provides a continuous stock discharge to the InfibraDisp disperser, resulting in a reduction of the energy consumption in downstream processes. Together with a special protective coating, a further positive effect of the even stock flow is an extended service life and low maintenance outlay.

The SplitScreen screen elements feature improved dewatering performance and markedly greater ease of maintenance. Its special design allows quick replacement of the split screen plates without time-consuming disassembly of the entire screen element. The SplitScreen screen element is used in the new screw press, but can also be installed into existing screw presses as part of a rebuild package.

Voith's BlueLine range for the stock preparation impresses with its low consumption of energy, fibers and water.

Further information is available on the Voith website at www.voith.com/paper. Voith Paper is also on Twitter and YouTube.

Voith Paper is a division of the Voith Group and the leading partner to and pioneer in the paper industry. Through constant innovations, Voith Paper is optimizing the paper manufacturing process, focusing on developing resource-saving products to reduce the use of energy, water, and fibers. Furthermore, Voith Paper offers a broad service portfolio for all sections of the paper manufacturing process.

Voith sets standards in the markets energy, oil & gas, paper, raw materials and transport & automotive. Founded in 1867, Voith employs more than 43,000 people, generates € 5.7 billion in sales, operates in about 50 countries around the world and is today one of the biggest family-owned companies in Europe.

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