

Media Release

Voith Group

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Latest generation of Voith dispergers: InfibraDisp sets standards with hydraulic gap adjustment

- Hydraulic gap adjustment allows continuous and precise adjustment of the dispersion intensity
- Automatic zero-point adjustment for a consistently high and reproducible dispersion result
- Robust design, high reliability and easy maintenance

HEIDENHEIM, GERMANY. Voith is expanding its product portfolio in the BlueLine stock preparation line with the launch of a new disperger with hydraulic gap adjustment. InfibraDisp is characterized by precise, infinitely variable gap adjustment, automated zero-point adjustment and user-friendly handling. The newly developed, smart control unit enables monitoring of filling wear and prevents any risk of plate contact with vibration sensors. As the core element of the BlueLine Compact Dispersion System, the new InfibraDisp contributes significantly to the provision of a high-quality raw fiber material based on recovered paper.

InfibraDisp: Hydraulic gap adjustment allows continuous and precise adjustment of the dispersion intensity

In dispersion, bothersome particles and inks are separated from the fibers and milled to a size suitable for further processing. The newly developed disperger achieves outstanding increases in strength of up to 25% and optimally prepares the fiber structures for subsequent starch application. The new hydraulic gap adjustment allows infinitely variable and precise adjustment of the dispersion intensity, thereby achieving an outstanding dispersion result. The adjustment can be made at any time by means of a user-friendly control panel directly on the machine. Together with the new disperger, Voith's The Wall disperger filling forms an ideal combination for achieving the best technological results with comparatively low specific energy input.

Automatic zero-point adjustment for a consistently high and reproducible dispersion result

“The hydraulic system of the new InfibraDisp disperger allows us to perform a precise ‘zero-point’ adjustment after the plate change by just pressing a single button. This eliminates the need for manual intervention on the disperger itself,” says Susana Fernández-Carrión, Stock Preparation Plants Manager at Saica in Saragossa, Spain. Due to the automatic zero-point adjustment, InfibraDisp delivers an optimal dispersion result at any time. The fully automatic zero-point detection is initiated by the operator and then runs autonomously.

“Operation of InfibraDisp is much easier than with the familiar dispergers on the market due to the automatic zero-point adjustment,” says Tomislav Druzinec, start-up engineer at Voith Paper. “Since the result can be reproduced independently of the respective operator due to the automatic recognition, our customers are able to significantly stabilize their dispersion process.”

Robust design offers high reliability and easy maintenance

The stable welded construction of the new disperger with hydraulic gap adjustment offers long, reliable and almost wear-free operation. The feed screw is driven by the main drive of the disperger. This results in a homogeneous and continuous stock feed to the filling; the formation of blockages is prevented and performance fluctuations occurring during the dispersion process are minimized.

At the same time, the feed screw is easily accessible and the entire machine is very easy to maintain thanks to a single drive. “The design concept of a single motor driving both the rotor and the feed screw has saved space and will ultimately reduce our maintenance costs,” says Fernández-Carrión from Saica in confirmation. The combination of forced and sump lubrication continually lubricates the bearing arrangement of InfibraDisp, thus increasing operational safety even in the event of unforeseeable incidents.

Automation advantages through newly designed control unit

In addition to the new hydraulic gap adjustment, a further core component is the specially designed control unit. The “digital brain” of InfibraDisp enables previously unrealized 4.0 features. The control unit contains the automation function, which controls the autonomous zero-point detection, processes the values of the vibration monitoring and adapts to technical parameters locally.

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“The new system for measuring filling wear will allow us to improve the monitoring of fillings throughout their life cycle, to compare the wear between different fillings or with different raw materials and to detect abnormalities even before a planned shutdown,” says Fernández-Carrión, praising the digital development. In the future, the wear monitoring system can, for example, interact directly with Voith’s Webshop and thus automatically initiate a filling order. In addition, the filling runtime is permanently monitored and the remaining operating time is calculated. The next filling change is therefore predicted in good time and downtime dates are recommended.

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Compact dispersion system: Low-cost, optimum dispersion results

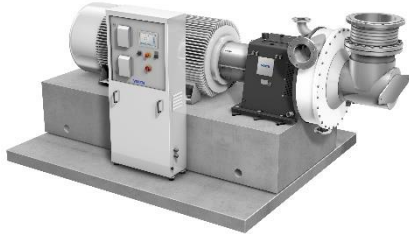
The new InfibraDisp disperger is part of the BlueLine Compact Dispersion System from Voith, which is characterized by high energy efficiency, a reliable and high dewatering performance, and reduced spatial requirements. In addition to InfibraDisp, the dispersion system includes the InfiltraScrewpress screw press and the InfibraHeater heating unit.

For more information about InfibraDisp and the Compact Dispersion System, please visit <https://voith.com/corp-en/papermaking/compact-dispersion-system.html>.

About the Voith Group

The Voith Group is a global technology company. With its broad portfolio of systems, products, services and digital applications, Voith sets standards in the markets of energy, oil & gas, paper, raw materials and transport and automotive. Founded in 1867, the company today has more than 19,000 employees, sales of €4.3 billion and locations in more than 60 countries worldwide and is thus one of the larger family-owned companies in Europe.

The Group Division Voith Paper is part of the Voith Group. As the full-line supplier to the paper industry, it provides the largest range of technologies, services, components and products on the market, and offers paper manufacturers solutions from a single source. The company’s continuous stream of innovations takes papermaking to the next level and facilitates resource-conserving production. With its Servolution concept, Voith offers its customers tailored service solutions for all sections of the production process. Voith Papermaking 4.0 ensures that equipment is optimally connected, while the secure use of generated data enables paper manufacturers to improve plant availability and efficiency.



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InfibraDisp's feed screw is driven by its main drive, which ensures a homogeneous and continuous stock feed to the filling, prevents clogging and minimizes performance fluctuations during the dispersion process.

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