

Media Release

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Winder upgrade by Voith: 15 percent increase in capacity thanks to SmoothRun damping bearing system

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- **Higher operating speeds**
- **Improved winding results**
- **Reduced maintenance costs**

Heidenheim, Germany. The new SmoothRun hydropneumatic damping bearing system for winders effectively reduces vibrations occurring during the winding process. Hydropneumatic damping allows for higher operating speeds and better winding results. Overall, capacity increases of up to 15 percent are possible. This compact upgrade solution is suitable for Voith and Jagenberg two-drum winders.

In conventional winders without special damping, vibrations can occur at higher production speeds for certain paper grades, and these vibrations can impair winding quality. To minimize the disruptive effect of vibrations during the winding process, the production speed and accelerations rates are reduced below the maximum capability of the winder. The solution: With SmoothRun hydropneumatic damping bearings from Voith the vibrations can be effectively reduced even at high speeds, allowing the equipment to operate at consistently high production speeds. At the same time, SmoothRun improves the winding results and reduces the overall mechanical stress on the machine.

Eliminating bottlenecks through capacity upgrades

Papier- und Kartonfabrik Varel (PKV) based in Lower Saxony, produces high-quality corrugating medium and testliner on its PM 5. Until now, the existing VariFlex M had to be run at a lower speed when producing paper grades sensitive to vibrations. The result is the winder could barely keep up with the production of the paper machine.

The purpose of the hydropneumatic damping bearings was to allow the winder to be operated at the maximum speed. “Following commissioning of the new bearing system we were able to reduce vibrations for all paper grades and increase speeds. We are currently optimizing the settings of the bearing system with intensive support from Voith,” explains Michael Wolff, Line Manager Equipment at PK Varel. “Following this optimization phase we assume that the speed of the winder can be increased. While further enhancements together with Voith are being made the winder can keep pace with the production of the PM 5,” says Wolff. Voith is helping the company achieve this goal by providing intensive support, e.g. by performing vibration measurements.

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Wide range of winder upgrades

Voith offers a wide selection of upgrades enabling existing winders to be specifically adapted to today's requirements. For further information have a look at <http://voith.com/winder-upgrades>

About the company

Voith Paper is a Group Division of Voith and the leading partner and pioneer in the paper industry. Through constant innovations, the technology group is continually optimizing the paper manufacturing process and paving the way for resource-saving production. Thanks to Papermaking 4.0, paper manufacturers can interconnect their equipment in an optimum way and increase their competitiveness through the effective and secure use of generated data. With Servolution, Voith Paper offers its customers tailored service solutions for all sections of the production process.

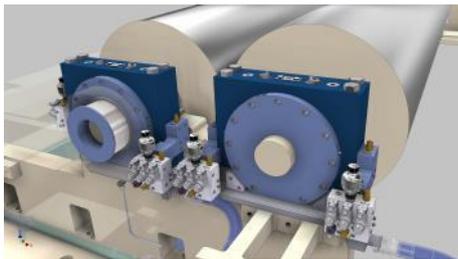
Voith is a global technology group. With its wide range of plants, products, services and digital applications, Voith sets standards in the markets for energy, oil and gas, paper, raw materials and transport & automotive. Founded in 1867, Voith today has more than 19,000 employees and earns 4.2 billion euros in sales. It has locations in over 60 countries and is one of the largest family-owned companies in Europe.



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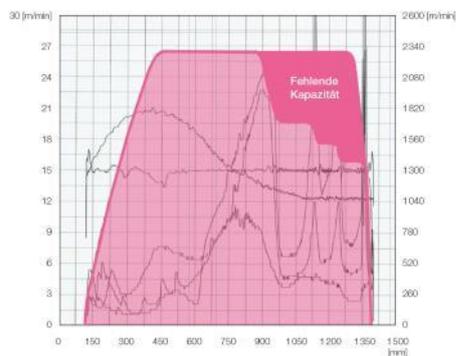
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The SmoothRun hydro-pneumatic damping bearing system from Voith reduces vibrations occurring on the winder drums.

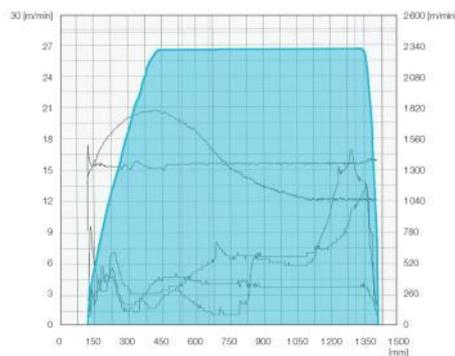


SmoothRun helps achieve higher operating speeds and improved winding results.

2300 m/min, ohne Dämpfung



2300 m/min, SmoothRun: Hydropneumatische Dämpfung



Thanks to the SmoothRun hydro-pneumatic damping bearing system, a consistently high operating speed can be maintained without vibrations. The colored area underneath the speed curves corresponds to capacity at 2,300 m/min or 7,545 ft/min (left without damping, right with SmoothRun damping).

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