

Media Release

Voith Group

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CurvedBar: Voith presents new screen plate with significantly extended service life for recovered paper pulping

- Innovative screen plate geometry with more than 50 percent longer service life
- Optimal interaction of pulper, rotor and screen plate for a higher quality fiber suspension
- Reduced costs for operation and maintenance

HEIDENHEIM, Germany. Voith introduces a new screen plate design for pulpers used in recovered paper pulping. The CurvedBar screen plate extends service life in Voith's IntensaPulper IP-R by more than 50 percent and improves the quality of fiber suspension. The results are less maintenance effort and material use, as well as fewer downtimes, leading to a more efficient overall process and lower costs. Chinese paper manufacturer Shanying International Holding Co. LTD., has tested the CurvedBar screen plate on its PM 5 in Maanshan and is now equipping other pulping systems with the innovative solution.

“With the new CurvedBar technology, we substantially reduced downtime and extended maintenance intervals at the pulper with consistently high operating quality,” says Wan Tao, Vice President Production at Shanying International Holding Co. LTD. “We also achieved very positive results from the coarse screening.”

To reduce the high mechanical loads on the screen plate, Voith developed an innovative curved bar design and optimally matched to the geometries of pulper, rotor and screen plate. “This results in a much longer service life compared to conventional screen plates,” explains Oliver Lüdtkke, Global Service and Product Manager at Voith Paper. The lower friction also reduces energy consumption. “Combined with savings in material and maintenance, significant cost-saving potential can be realized, and the customer’s carbon footprint is reduced due to greater sustainability,” says Lüdtkke.

Lower shearing forces, higher quality fiber suspension and problem-free ragger formation

Thanks to the lower shearing forces on the screen plate, far fewer contaminants are shredded. This improves the quality of the fiber suspension, reduces the amount of small rejects that need to be laboriously removed in the downstream process steps, and allows trouble-free ragger formation. Furthermore, the risk of bar breakage and deformation of the screen plate is significantly reduced. The CurvedBar screen plate has proven its effectiveness at Shanying in Maanshan, China, and other locations.

“With the new curved technology and premium W material, we optimized and reduced the flake content and are maintaining high-efficiency pulping performance in the long term,” says Song Jie, Manager of the Technical Department at Shanying International Holding Co. LTD. “The flake content is about 15 percent, the lifetime of high-efficiency pulping performance is extended from two months to five months.”

“We still keep very good collaborating relation with Voith for the OCC stock preparation and paper machine, especially for testing the performance of the screen plate with CurvedBar and premium W material,” Jie adds. “We value the excellent and professional support provided by Voith during installation and commissioning of the screen plates. At all times, Voith was in close contact with us to continually optimize the equipment. We are very satisfied with the results and happy to have Voith as a strong partner by our side.”

Following the successful pilot phase, the company has already awarded Voith several follow-up orders to successively retrofit other pulpers with the new components. Other customers have also placed repeat orders for the innovative screen plate design following successful testing.

For more information about CurvedBar please visit: <http://voith.com/corp-en/papermaking/pulping-solutions.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

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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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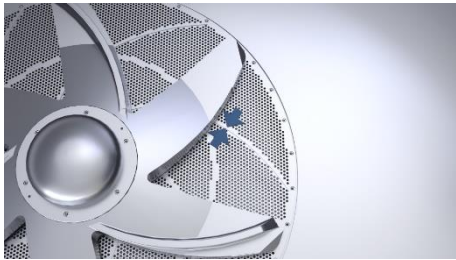
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The new CurvedBar screen plate design for the IntensaPulper IP-R substantially extends the service life of the pulper and improves the quality of fiber suspension.

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