

## Media Release

Voith Paper

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### Successful start-up of rebuilt PM 11 helps Shandong Huatai Paper increase production capacity

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- Voith successfully rebuilt Shandong Huatai Paper's PM 11 from newsprint to high-quality graphic paper
- Highly efficient solutions from Voith's leading full-line portfolio are used
- The successful start-up is another important milestone in the long-standing partnership between Voith and Huatai Paper

**SHANDONG, CHINA/HEIDENHEIM, GERMANY.** On January 16, 2024, Shandong Huatai Paper and Voith Paper successfully started up PM 11 in the eastern Chinese province of Shandong. PM 11, a former newsprint machine, was successfully rebuilt for the production of high-quality graphic paper. The machine's web width is 10.2 meters and the design speed 1,800 m/min. With the help of leading Voith technologies, the annual capacity of the rebuilt PM 11 can be increased from 400,000 to 520,000 tons.

“After the rebuild of PM 10 from newsprint to writing paper in 2016, the successful start-up of PM 11 represents a significant milestone in Huatai's transformation process to high-quality graphic paper,” confirms Wei Lijun, General Manager of Shandong Huatai Paper. “The rebuild has not only transformed the almost 20-year-old paper machine into a modern paper machine but has also significantly improved the machine's stability and capacity. We look forward to writing more success stories with Voith in the future.”

Kurt Yu, President Asia, Voith Paper, adds: “This cooperation not only demonstrates our customer's confidence in Voith's technological excellence but is also the highest compliment in our 30 years of cooperation in terms of mutual trust and synergy. We are very much

looking forward to continuing our work with Huatai Paper to support its transformation and modernization and achieve a win-win situation.”

### **Customized scope of supply for long-term production efficiency**

The customized rebuild includes a variety of state-of-the-art technology solutions with a focus on stability, reliability and efficiency. The solutions not only help to extend the service life but also lead to more sustainable and cost-efficient operation.

This involves upgrading the MasterJet Pro G headbox and implementing the optimization of dilution water technology to improve paper quality while reducing energy costs. The Voith experts upgraded the forming section similar to the DuoFormer concept for optimum formation and higher throughput. In addition, the ParaSlice nozzle concept and the EdgeModule system were integrated to stabilize the fiber orientation profile (CD profile). The newly installed ProRelease+ HighEnd boxes in the pre-dryer section significantly increase the vacuum level, ensuring the stability of the paper web at high speeds and minimizing the risk of paper breaks.

In addition, a SpeedSizer AT with its uniform film application ensures even and high-quality paper profiles. The CombiDuoRun dryer concept and an efficient new dryer section hood are used in the after-dryer section. Voith's roll covers ensure optimum sheet release and reduce paper breaks. By installing digital solutions from the Papermaking 4.0 portfolio, in particular the OnQuality quality management system (QCS) and the OnControl automation technology (MCS), the PM 11 has been brought up to date, resulting in a significant increase in operating convenience and control stability.

With an annual production capacity of 1.5 million tons of newsprint, Shandong Huatai Paper is one of the world's leading manufacturers of newsprint. As a long-standing partner, the customer has placed several orders with Voith for the construction of new plants, including the Huatai PM 10 rebuild project, which was successfully completed in 2016.

### **About the Huatai Group**

Paper Shandong Huatai Paper is part of the Huatai Group. Huatai Group is one of the 500 largest companies in China, with paper manufacturing and chemical industry at the top, covering printing, thermal power, forestry, logistics, trading, catering, real estate, finance and other industries. It ranked 254th among China's 500 largest companies in 2019, 11th among

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Page 2 of 5

China's 100 largest light industry enterprises and has been one of the top three paper manufacturers in China for many years.

As the first listed company in the paper industry in Shandong Province, Huatai Group has an annual production capacity of four million tons of paper and four million tons of chemical and papermaking auxiliary materials. The company has more than 15,000 employees and total assets of 32.8 billion yuan, and its products are exported to more than 60 countries and regions around the world.

### 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, paper, raw materials and transport & automotive. Founded in 1867, the company today has around 22,000 employees, sales of € 5.5 billion and locations in over 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 and products on the market, and offers paper manufacturers integrated solutions from one source. The company's continuous stream of innovations facilitates resource-conserving production and helps customers minimize their carbon footprint. With its comprehensive automation products and leading digitalization solutions from the Papermaking 4.0 portfolio, Voith offers its customers state-of-the-art digital technologies to improve plant availability and efficiency for all sections of the production process.



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Page 4 of 5

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