

Media Release

Voith Paper

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MasterJet 4Tec: New Voith headbox ensures the highest paper quality and enables significant improvements in operating and energy efficiency

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- Improved jet homogeneity and a 30 percent reduction in streaking in the formation for the highest paper quality
- Optimizations at the headbox reduce the pump's energy consumption and result in high cost savings
- Clean and user-friendly operation for efficient operation and minimal cleaning and maintenance
- First customers Khanna Paper and Brigl & Bergmeister are fully convinced by the performance of the headbox

HEIDENHEIM. Voith's fourth-generation MasterJet headbox technology, the MasterJet 4Tec, is now available and has already impressed the first customers with its positive effects on operating efficiency and paper quality. The innovations result in improved jet quality and thus flawless, streak-free sheet formation, as well as a reduction in energy consumption. The measures to further improve cleanliness and the resulting increase in machine efficiency have also proven to be very convincing.

Improved formation ensures outstanding paper quality

The headbox makes a decisive contribution to sheet formation, one of the most important quality parameters for most papers. "Our MasterJet 4Tec sets new standards in jet homogeneity," reports Markus Haeussler, Product Manager Headbox at Voith Paper. The improved fiber distribution and more than 30 percent streak reduction in the jet ensure the best formation values and a perfect visual appearance of the paper.

Annual energy savings in the six figures

Significantly improved energy efficiency further ensures considerable savings in operating costs. "The fan pump contributes significantly to the

electrical energy consumption of a paper machine, and this depends a lot on the headbox,” says Haeussler. “This is why we have put a high priority on reducing the energy consumption of the MasterJet 4Tec.” On a six-meter-wide paper machine that produces at 1,000 m/min and 80,000 l/min, and with a kWh price of €0.12, these measures can lead to annual savings of around €103,000.

Brigl & Bergmeister, a leading manufacturer of label papers, is convinced of the performance of the headbox: “The team from B&B and Voith did an excellent job throughout the entire project,” says Josef Goessnitzer, Production Manager at Brigl & Bergmeister in Niklasdorf. “The result was an impressive start-up of the new MasterJet 4Tec. It took less than two and a half hours from stock on wire to achieving saleable paper quality. Right from the start, we had very good cross profiles, and the exceptionally smooth jet was impressive.”

With the EdgeMaster, the MasterJet 4Tec has an edge control on the fourdrinier wire that is easy and intuitive to adjust and can simply be swiveled upwards for a wire change. An innovative Teflon seal ensures a fiber-free wire edge and clean surfaces around the headbox. “The headbox and surrounding area are very clean thanks to the new EdgeMaster from Voith, which further reduces our number of sheet breaks. Immediately, we had 50 hours without a sheet break,” says Goessnitzer. “We are really impressed with the new MasterJet 4Tec and are glad we chose this headbox.”

Khanna Paper Mills, a leading Indian papermaker and longstanding partner of Voith, is already profiting from the advantages of the new MasterJet 4Tec, too. “From the beginning, the performance of the MasterJet 4Tec on our PM 4 has been impressive. The headbox delivers superior results after fast stabilization on the PM 4,” reports Rahul Khanna, Managing Director & Promoter at Khanna Paper Mills, which has already announced a second order. “This cutting-edge technology from Voith and the positive experience by the whole team have encouraged us to place a repeat order with Voith for another MasterJet 4Tec for our PM 5, one of the widest and fastest paper machines in India to date,” says Khanna.

The MasterJet 4Tec is the successor to Voith's proven MasterJet Pro technology. The headboxes deliver the highest quality, outstanding efficiency and optimal operation.

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About the Voith Group

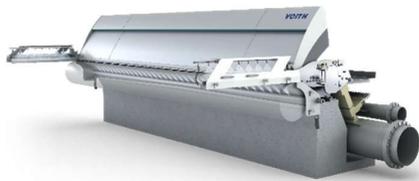
The Voith Group is a global technology company. With its broad portfolio of systems, products, services and digital applications, Voith sets standards in the markets of energy, paper, raw materials and transport & automotive. Founded in 1867, the company today has around 22,000 employees, sales of € 5.5 billion and locations in over 60 countries worldwide and is thus one of the larger family-owned companies in Europe.

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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 holistic solutions from a single source. The company's continuous stream of innovations facilitates resource-conserving production and helps customers minimize their carbon footprint. With its leading automation products and 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.



The MasterJet 4Tec, Voith's new generation of headboxes, not only offers clear advantages in paper quality and energy efficiency but also impresses with its modern industrial design, which facilitates clean and user-friendly operation.



After successful start-up of the new MasterJet 4Tec headbox: (from left to right) Markus Haeussler (Voith), Josef Goessnitzer (Brigl & Bergmeister), Mathias Schwaner (Voith) in Niklasdorf.

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