OPTIMUM DRYING RESULTS

VIB TriSteam

ANDRITZ

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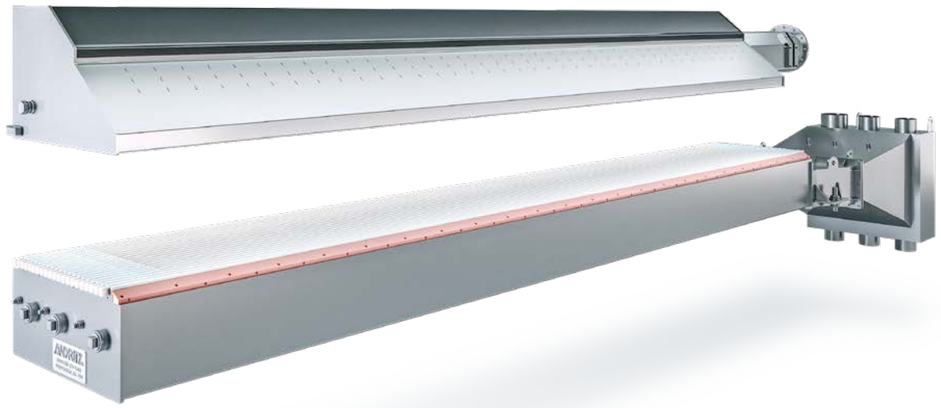


The VIB TriSteam optimizes the penetration of steam into the sheet through the application of three uninterrupted levels of vacuum. The open area is designed to provide the most efficient use of dwell time. By integrating the Trivac and the VIB SteamTech into one unit, the TriSteam module saves drying energy, improves runnability, and controls cross-directional moisture profile variation. The Trivac unit optimizes drainage and maximizes sheet dryness after the press section, ensuring trouble-free sheet transfer through the dryer section. The unique VIB TriSteam represents a state-of-the-art technology in coordinated, most efficient application of steam and vacuum. Each unit is custom designed to meet specific customer objectives.

MODULE DESIGN HIGHLIGHTS

- Unique steam injection technology
- Highest heat transfer efficiency
- Integrated vapor evacuation system
- Heated diffuser plate
- Accurate flow control by unique highly reliable actuator
- Controlled zone width of 70 - 300 mm (3 - 12 inches)
- 316L stainless steel control valve designed for 200 °C (392 °F)
- Optional tilt retraction (custom designed to meet individual customer requirements)
- Unique multi-zone vacuum unit

BENEFITS

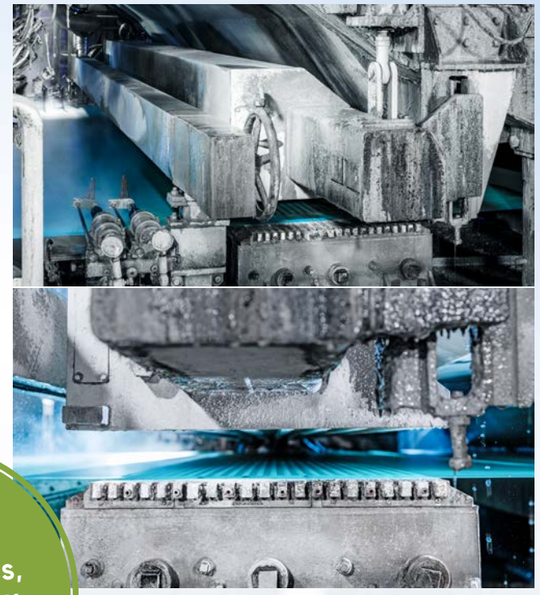
- Steam flow, dwell time and vacuum levels are harmonized to achieve optimum drying results
- Significant dryness improvement and better CD moisture profile control capabilities
- Considerable better sheet temperature gain compared to conventional steambox applications
- Increased sheet temperature enables most efficient press performance to gain several ex-press dryness points

CASE STUDY

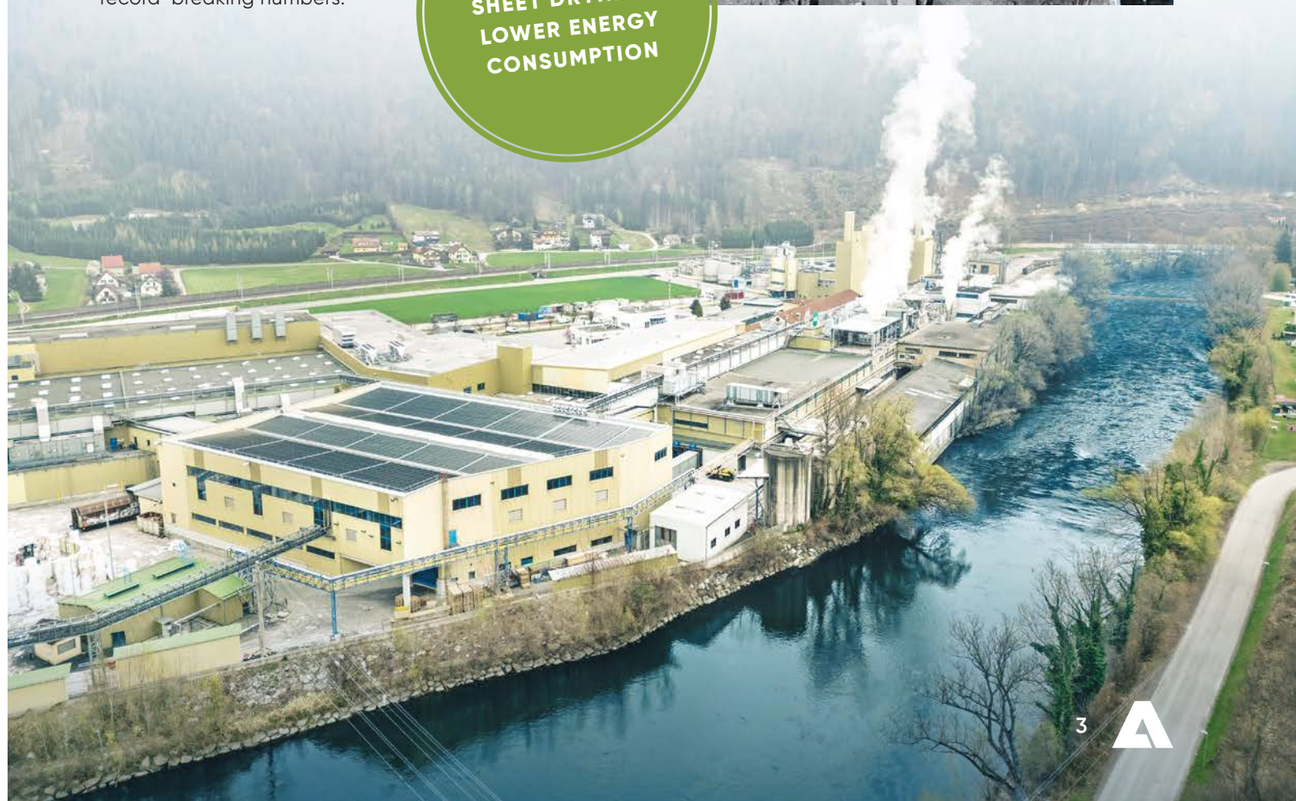
MM Frohnleiten, Austria

VIB TriStream saves energy and minimizes the carbon footprint

The successful installation of the VIB TriSteam was done at MM Frohnleiten mill in Austria, which was rebuilding its KM3 board machine to increase efficiency and quality, while reducing its environmental footprint. Those goals would require the already efficient machine to make even more savings on energy and water. The application of steam, which is optimized using three uninterrupted vacuum levels, increases the temperature of the board web, significantly improving the dry content after the press. This VIB equipment together with the new shoe press concept raised the post-dryness meaning less steam is now required in the dryer section. Overall, the project lowered the machine's steam consumption by 10%, as well as reducing its carbon footprint. Before the modernization, KM3 already compared very well with industry standards in this area, but this upgrade has transformed it into a world-leading board machine, producing record-breaking numbers.



IMPROVED SHEET DRYNESS, LOWER ENERGY CONSUMPTION



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