

## Front-end technology: Sophisticated range of products prior to the press

Complete plants for the wood-based materials industry from the wood-yard to the packing of the finished boards define the Siempelkamp service chain. The perfectly adapted front-end technology prior to the press sets the course to successful board production.

Our scope of supply upstream from the press begins with the de-barking process and the flaking and milling technology. The quality of the chips, wood particles, strands, flakes, and fibers is decisive for the quality of the boards. That is why Siempelkamp's product spectrum includes the complete range of machinery for the production of chips, wood particles, strands, flakes, and fibers. Our dry-cleaning machines remove contaminants from wood chips that are produced from recycling wood.

Our screening and separating units incorporate outstanding screening and fractioning technology. These units are equipped with oscillating screens, disc screens, drum screens, roller screens or wind separators. Our screening and fractioning technology guarantees the gentle handling of chips, wood particles, flakes, fibers, and strands.

Our conveyor systems provide for low-maintenance and incident-free operation. These systems are tailored to the plant capacity and needs of our customers.



Ecoresinator

Largest strander in the world at Kalevala



Screen at Masisa Cabrero

Siempelkamp can also provide the right solution for the intermediate storage of chips, wood particles, strands, flakes, and fibers. Bunker and silo installations are part of the scope of supply, as well as dosing systems which will provide uniform material feed to the subsequent aggregates. Due to the improved leveling of the filling height and high precision scales designed to deliver precise dispensing of flakes and fibers, the newly developed dosing bins improve the precision and efficiency of resin dosing and application.

A central component of our front-end technology is the Ecoresinator resin injection system for fibers. It saves up to 20 % in resin while maintaining high board quality in regards to mechanical and optical properties. Together with our subsidiary CMC we have meanwhile adapted our state-of-the-art resin blending system for MDF production to the production of particleboard.

For the plant operator front-end technology made by Siempelkamp means: no interfaces, high outputs, low production costs and high-quality starting material and consequently, the best possible end product!

### ► The year 2014

#### Front-end technology: sales successes and innovations

- 7 orders from Siempelkamp customers for machinery ranging from the wood-yard to the resin blending system regarding the complete front-end process or for machines decisive to the process
- 15 additional orders from CMC customers for front-end technology
- 8 startups of machines for the front-end area at Siempelkamp customers worldwide
- resin injection system for particles is market-ready: resin savings of up to 10 % due to special nozzle technology