

# Systems for difficult to handle bulk materials

## MB26, Indonesia YEAR OF CONSTRUCTION 2019

### DESCRIPTION

After successful commissioning of predecessor projects in one of Asia's largest paper factories, located in Indonesia, SHW-SHS was charged with the successor project as well. New construction of a fuel supply system.

The goal is supplying the bark material (quick-growing tropical bark) arising as a waste in paper production to combustion, which saves fossil fuels (coal) in steam generation and improves the CO<sup>2</sup> balance.

SHW-SHS planned the supply system for a new boiler construction. This was implemented in close coordination with the manufacturer of the power plant and further suppliers of the project.

The system comprises:

- Two silos with rotor unit and two removal screws
- Two coal trough chain conveyors with shut-off unit and compensator as supply to the subsequent trough chain conveyor
- Two tandem distribution dosage screws (this unit is used to distribute the two fuel supply lines among four boiler infeed points)
- Four blade airlocks
- Four pneumatic shut-off units
- Four boiler input screws

The fuel supply system was built in stainless steel design with wear protection. This minimises wear and permits low-maintenance operation of the system. Therefore, the system is designed for long-term operation.

All components were adjusted to the project in their design (material selection, wear, design, drive output) and are fully adjusted to customer needs.

The silo prevents bridge formation of the material by the SHW relief systems.

The system concept is redundantly designed. This way, failure of the supply line to the boiler can be compensated with the second supply line. It warrants high plant availability.

SHW-SHS stands out on the market with its integrated concept from planning, to delivery, to commissioning and after-sales service. It is available to the customer as a competent partner across the entire product life cycle.