



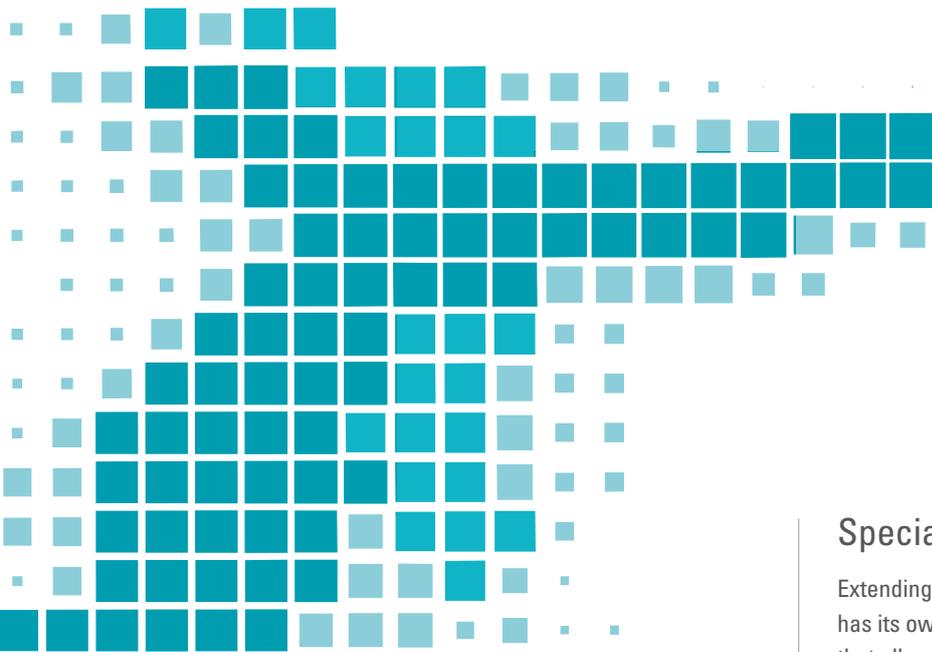
Fully automated dryer feeding

Södra is Sweden's largest forestry association and an international company in the field of wood processing. At its Värö site the company has a sawmill, a pulp mill and a pellet production plant. For the pellet production plant, Vecoplan designed and delivered the raw material storage and dryer feeding systems.



From the existing sawmill to the new dryer

Previously the sawdust was conveyed from the existing sawmill to an unprocessed store. The project was to construct a fully automated storage system with discharger to enable the raw materials to be conveyed after screening to the new dryer, which belongs to a new Pellet Plant.



Special Standards

Extending beyond the standards applicable in Sweden, Södra has its own guidelines to be observed. It is particularly important that all suppliers fulfil the requirements for documentation, safety guidelines and other stipulations. Södra is looking for reliable partners!

- Special paint (seawater-resistant)
- Special motor connections
- Defined requirements for steel construction and walkways
- Verification of suitability for all personnel on the construction site
- Precise planning and implementation of the project

Demanding engineering requirements

Utilising the available space and making use as far as possible of the existing systems, required a significant level of engineering. Very often custom solutions are required that are tailored to specific customer requirements. Based on decades of experience, coupled with exceptional engineering, this produced a solution that is second to none.

Challenges

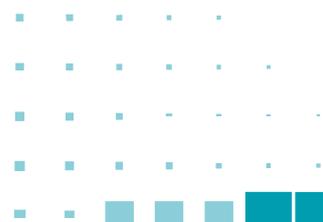
The new plant needed to be integrated into an existing system environment and there were significant limitations on the available space. The planning work needed to take into account the fact that all foundation works would incur significant and additional costs; as the sawmill is located by the sea and is therefore built on boggy ground.

A further challenge was the route for conveying materials from the sawmill to the dryer. As this route runs across a storage and transit location as few as possible supporting structures needed to be used.

Project scope

The sawdust had to be stored then conveyed via a disc screen, in a collecting container, dosed then fed into the dryer. In addition to project management and full assembly services, the following equipment was used:

- Special loading and unloading conveyors with the option for feeding in material via a wheel loader
- Disc screen for separating overlengths
- Drag chain conveyor
- VecoBelt
- Dosing screw bunker
- Screw conveyor
- Steel construction



Not off the peg

Vecoplan developed a new solution specifically for this project so that the available space for materials storage could be used as optimally as possible. This was the only way possible to produce the required storage volumes without the demand for a completely new building. Combined with tried and tested equipment, a solution was created that provides Södra the optimal outcome.



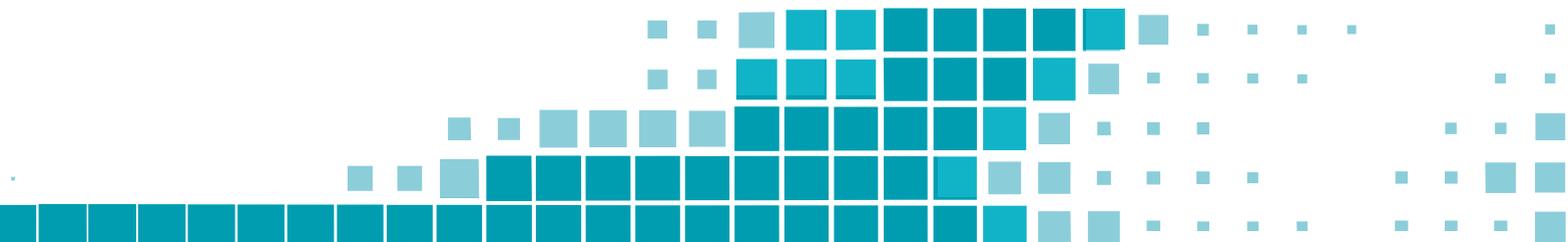
Loading and unloading conveyors

- 22 m long
- 8 m wide
- 7 m high



VecoBelt

- Storage volume: 2,400 m³
- 142 m long
- 4 support points (43-50 m support spacing)



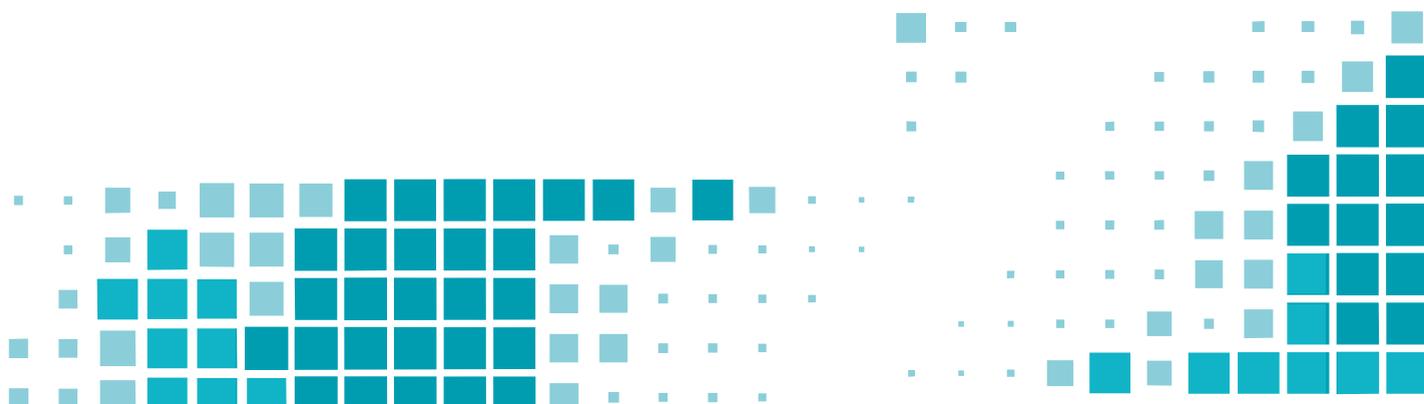
Win – Win

Södra was searching not only for a couple of machines but for a partner who could deliver a complete solution. The specific conditions needed to be optimally met without any negative impact on plant performance levels. In Vecoplan the company found a partner who could really deliver on its promises! Both the plant itself and the pellet system have been running problem-free for years. This forms the basis for additional future projects!



„For us, the protection of the environment as well as the reduction of CO₂ emissions are not just empty phrases but determining factors. Due to Vecoplans conveying system the entire transport route of bark and chips could be relocated in lofty heights above the buildings and streets of Södra – and had been executed to our complete satisfaction.”

Tord Barone, purchase, Södra Cell Värö



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