



Material transport from sawmill to pulp mill

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. The by-product materials produced by the sawmill were previously transported to the pulp mill by trucks as site traffic. By using appropriate conveying technology Vecoplan has implemented dust-free bulk goods transport across large distances.

From the existing sawmill to the pulp mill

There are plans to increase the sawmill capacity levels in future, meaning that internal transport to the pulp mill using trucks or lorries will no longer be feasible. Being a large industrial site, the main advantages with the sawdust and bark conveyer was to decrease the internal traffic on site of both environmental and safety reasons.



Special standards and requirements

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 painting (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

Due to the large distances over several hundred metres (approx. total 1,700 m), solutions were needed for conveying materials without building on future expansion zones at the customer's site. In addition, existing roads and transport routes needed to be crossed without generating any collision points. This required a significant amount of advance planning work in close collaboration with the customer. Based on our experience, combined with the exceptional technical options at our disposal, a solution was developed that met all customer requirements in the optimal way, resulting in Södra selecting Vecoplan as their partner.

Challenges

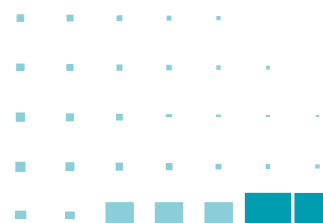
As the new plant needed to be integrated into an existing system environment, the entire transport route was positioned at min. 14 m above ground level. The local site conditions represented a particularly complicated challenge for the steel construction work required. In addition, the customer places significant value on sustainability, meaning that solutions were sought and implemented taking aspects such as energy consumption and resultant emissions into account.

Project scope

Both the sawdust and bark needed to be picked up by the existing conveyors and transported to the destination point. Here it is important that a high level of availability is ensured with the connection of two independently functioning production sites, because every period of downtime has direct impact on both plants. In addition, the plant needs to be able to remove any peaks in the conveyor flow which are then fed back in later on.

In addition to project management and full assembly services, the following equipment was used:

- Special screw conveyors, partially manufactured in stainless steel
- VecoBelts with conveying capacity up to 800 m³/h
- Volumetric measurement of the conveyed material
- Steel construction



A masterpiece of precision german engineering

Proven and custom solutions

Vecoplan accepted and implemented all the customer's requirements. To achieve this, at some points proven conveyor equipment needed to be modified and optimised. As a mechanical engineer, this is precisely the type of challenge where Vecoplan can apply all its expertise and successfully implement an effective solution.



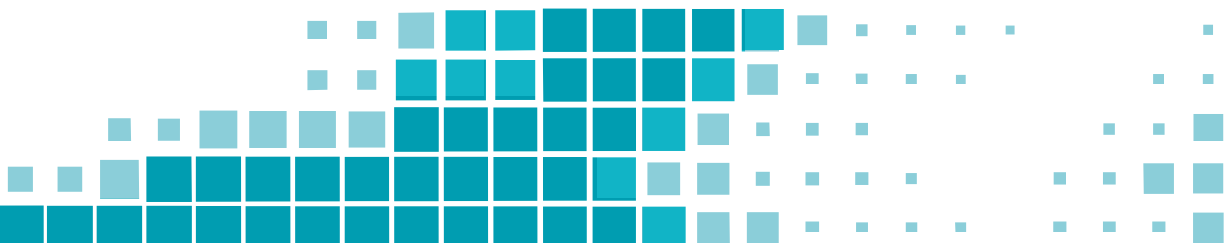
Dosing and screw conveyors

- Single screw conveyor with stainless steel trough, type VSE 500, 2 m long
- Twin screw conveyor with stainless steel trough, type VSD 650, 4 m long



VecoBelt Pipe conveyor VRF

- VRF 800 P with pneumatic support, from 107 m up to 318 m long
- VRF 1000 P with pneumatic support, from 262 m up to 432 m long



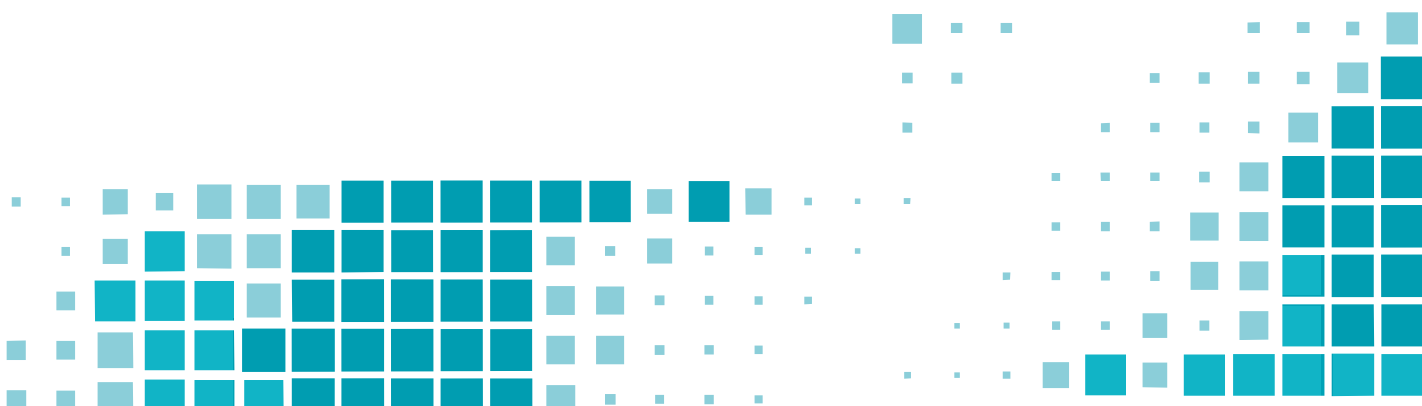
Win – Win

Södra was searching not only for a couple of machines but for a partner who could deliver a complete solution. The special conditions needed to be optimally met. In Vecoplan the company found a partner who could really deliver on its promises! The plant has been running problem-free since 2016. This forms the basis for additional future projects!



„At Vecoplan the overall package is just right. We set great value upon premium goods and long-lasting partnerships. These will arise when keeping promises and surpassing expectations. Our cooperation with Vecoplan turned out to be like that – we are totally satisfied.“

Viktor Jägerström, Head of Management, Södra Cell Värö



Vecoplan®

Vecoplan AG
Vor der Bitz 10
56470 Bad Marienberg | Germany
phone +49 2661 62 67-0
fax +49 2661 62 67-70
welcome@vecoplan.de
www.vecoplan.com