

Transportation of cabs

Scania: Assembling a safe solution.



The future-proof solution for the transportation of cabs at the Scania truck assembly plant in Södertälje, Sweden was created with the latest technology adapted to Scania's requirements and wishes. The focus was on capacity requirements, accessibility and personal safety.

30 years ago, Scania implemented a solution for the transportation of cabs in their truck assembly plant in Södertälje. The solution was supplied by Körber Supply Chain DK, then known as Univeyor, and has been functioning to the full satisfaction of the customer ever since.

At a glance

Project goals

- Increased capacity and upgrade of technology
- Improved ergonomics and safety

Solution

- Custom designed chain tracks and roller conveyors

Features and benefits

- Automatic unloading of cabs from lorry trailer
- Ergonomic work environment on assembly line
- Automatically control stations for cab skirts
- Integrated buffer storage
- Automatic loading on lorry trailer after assembly



The solution

When replacing it with a modern solution, the focus has been on current requirements for capacity, accessibility (uptime) and personal safety. In the new project, the assembly line is expanded with several workstations to ensure better working conditions for operators and to future-proof the plant regarding capacity and safety. The new solution for the transportation of cabs primarily consists of custom-designed chain tracks, and roller conveyors adapted and designed for Scania's special skids, which support beams for the transportation of the cabs. Additionally, special machines for handling skids are installed, allowing for stacking the skids.

Benefits

Since the implementation, Scania has increased their capacity by approximately 20 percent. Part of the solution is incorporated specifically in the assembly line, where special ergonomic and safety conditions are taken into account in order to bring the cab or the operator to an optimal height. This enables operators to work both safely and ergonomically. Furthermore, a new generation of area scanners has been installed, to maximize personal safety on the assembly line.

“Körber has delivered a future-proof solution created with the latest technology that is adapted to Scania's requirements and wishes. The installation has been carried out within a very tight timeframe of only three weeks, where dialogue and cooperation are key factors for ensuring that everything goes efficiently and according to plan. The collaboration with Körber has been optimal. Challenges came up along the way, but it has been solved to Scania's full satisfaction.”

Jakob Holmgren
Process Engineer
Scania CV AB

Challenge

The installation time of the plant was challenging but progressed as scheduled for three weeks during the summer vacation period.

The plant was up and running in time, and only a few software adjustments were needed when production kicked in again.

Facts and figures

Weight

2–3 tons

Length

From 2 - 3.5 meters

Width

About 2.5 meters

Item

4 different skids + the old skid for a period

Capacity

80 operator cabins a day

Speed

Takt time for the production line is every 5 minutes

The solutions contains

- Three-stringed chain tracks KB319D
- Two-stringed chain tracks KB219D
- Two-stringed roller conveyors RB90 2
- Various special-purpose machines

Throughout, the plant is designed according to Scania TFP (Technical Regulations for Machines and Production Equipment).

