

Complete conveyor belt system for the Follo Line Project, Oslo

Conveyor belt system for the longest railway tunnel in Scandinavia

The 22.5 km long journey will only take 11 minutes as soon as the Follo Line project completes the new railway line from Oslo to Ski. Most of the section will run through a newly built 19.5 km long railway tunnel - the longest railway tunnel in Scandinavia.

Follo Line is currently the largest infrastructure project in Norway. In addition to the increased capacity for passengers, the new railway line is meant to encourage freight transport onto the railways. This is the first time in Norway's history that a railway tunnel is being excavated using tunnel boring machines.

For the removal of excavated material, Marti Technik AG received a contract from the Spanish-Italian joint venture Acciona/Ghella for the production, delivery and supervision of the assembly of a complete conveyor belt system.

Client
Acciona / Ghella Joint Venture (AGJV)

Created
2016



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Technical specifications

The conveyor system consists of:

- four tunnel conveyors
- twelve dumpsite conveyors, each forming two 1.9 km long dumpsite lines
- Tunnel diameter 9 m each
- Tunnel length 9 km each
- Tunnel conveyors 9 km each
- Belt width tunnel conveyors 1 000 mm
- Conveying capacity of the tunnel conveyors 850 t/h each
- Belt width of the dumpsite conveyor 1 400 mm
- Conveying capacity 2 120 t/h each
- Drive power: 8 716 kW



The Follo Line Tunnel consists of two single-track tubes, which in the future will be used by high-speed trains at a speed of 250 km/h. Four tunnel boring machines work from the middle outwards for 9 km in both directions through Norwegian granite. They feed our tunnel conveyors, which transport the material to two dumpsite lines. The two dumpsite lines are stationed in the middle of the tunnel. They consist of 12 dumpsite conveyors and are respectively 1.9 km long. The excavation material is thrown into the dumpsite and transported from there by truck to the final dumpsite or to be treated for the production of tubing.

Cover:

Discharge platform Tunnel conveyors C100 + C300

1. Overview of the Dumpsite facility C800-C900
2. Drive tower Dumpsite conveyor C700
3. Dumpsite conveyor C600