

Alto Maipo hydroelectric complex in Santiago de Chile: Tunnel belt conveyors with dumpsite conveyor for the main tunnel Alfalfal VA2 and Las Lajas L1

Conveyor belt installation in the Andes

Approximately 50 km southeast of Santiago de Chile is the hydropower complex Alto Maipo, which will ensure the power supply in the region, including that of the Chilean capital. Over 60 kilometers of tunnels were created for Alto Maipo. The “Alto Maipo Hydro Project” is one of the largest private construction projects in South America. Our customer, STRABAG AG, creates tunnels in different sections using the blasting and TBM drive method over a total length of about 46 km. Marti Technik AG was awarded the contract to build, deliver and put into operation the tunnel belt conveyors with dumpsite conveyor for the main tunnel of Alfalfal VA2 and Las Lajas L1, with a length of around 10 km each.



Overview

Alto Maipo hydroelectric complex in Santiago de Chile: Tunnel belt conveyors with dumpsite conveyor for the main tunnel Alfalfal VA2 and Las Lajas L1



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Project

Main contractor: STRABAG AG
Client: Alto Maipo S.p.A.
Total value of order: € 7.0 million
Created: 2015/2016

System Data Tunnel Conveyor

Alfalfal VA2	Las Lajas L1
Axle base: 10 600 m	10 750 m
Height difference: -620 m	-13 m
Min. radius: 1 000 m	1 000 m
Belt width: 650 mm	800 mm
Belt: ST Type K	ST Type K
Power: 615 kW	1 250 kW
Speed: 3.0 m/s	3.0 m/s
Conveying capacity: 320 t/h	650 t/h
Grain size: 0-200 mm	0-200 mm
Sea level: 1 800-2 400 a.s.l.	850 m a.s.l.

System Data Dumpsite Conveyor

Alfalfal VA2	Las Lajas L1
Axle base: 203 m	200 m
Height difference: -17 m	20 m
Belt width: 650 mm	800 mm
Belt: ST Type K	EP Type Y
Power: 37 kW	74 kW
Speed: 3.0 m/s	3.0 m/s
Conveying capacity: 320 t/h	650 t/h
Grain size: 0-200 mm	0-200 mm
Sea level: 1 800 a.s.l.	850 a.s.l.



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