

Marti Technics Ltd.

Conveyor belt system for Katzenbergtunnel (D)



Katzenbergtunnel (D)

Conveyor belt system

Client	DB, Deutsche Bahn AG
Main contractor	ARGE Katzenbergtunnel, Efringen-Kirchen (D)
Sub-contractor	Marti Technics Ltd.
Order value	CHF 13 mn
Drawn up	2004/05



Services provided by Marti Technics Ltd.

Design, planning and performance of the entire conveyor belt system including electrical installation and visualised plant controls.

The system consists of 4 main parts

- 2 tunnel conveyors each 9000 m long
- Intermediate deposit site with removal equipment
- External conveyor to final deposit site
- Automation and electrical system

Technical data

Conveyor belt system

- Total quantity to be conveyed 2.7 million tonnes
- Flow rate for tunnel conveyors 900 t/h, external conveyor 1300 t/hr
- Driving power per tunnel conveyor 1065 kW
- Width of tunnel belt 800 mm, external belt 1000 mm
- Volume in intermediate deposit site 30 000 m³

Automation and electrical system

- Fully-automatic control of material flow from the tunnel boring machine (TBM) to final deposit site
- Visualisation of conveyor belt system
- Installation of heavy-duty electrical supply 3.2 MW



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