Marti Technik AG

Conveyor belt system Fréjus tunnel (F)
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Conveyor belt system

Client SFTRF Société Française du Tunnel Routier du Fréjus
Main contractor GIE Galerie de Sécurité Tunnel Routier du Fréjus
Sub-contractor Marti Technik AG
Order value CHF 2.9 mn
Drawn up 2010 / 2011

Services provided by Marti Technik AG
Design, planning and implementation of the entire conveyor belt system including electrical installation, visualisation plant control and supervision of the assembly.

Plant description
- 1 tunnel conveyor  6335 m
- 1 sub-conveyor  485 m
- 1 disposal stacker  30 m
- 1 disposal stacker  200 m
- 6 conveyor belts total  500 m
- Control system and electrical installations

Technical data

Conveyor belt system
- Total quantity to be conveyed  1.25 million tons
- Flow rate for the tunnel conveyor system  1250 t/h
- Flow rate for the disposal conveyor  1250 t/h
- Flow rate for the gravel return feed  200 t/h
- Driving power of the tunnel conveyor system  2 x 355 kW
- Driving power of the sub-conveyor  1 x 355 kW
- Driving power of the disposal stacker  1 x 55 kW
- Driving power of the gravel return feed  125 kW
- Belt width of the tunnel conveyor / sub-conveyor  1000 mm
- Belt width of the disposal stacker  1200 mm
- Belt width of the gravel return feed  500 mm

Control system and electrical installations
- Fully automatic control of the material flow from the TBM to the disposal site
- Fully automatic control of the material flow from the gravel processing to the loading
- Visualisation of the conveyor system
- Installation of the electrical supply  1500 kW