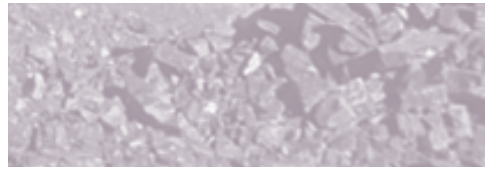


Marti Technics Ltd.

Conveyor belt system West Drainage Tunnel (Hong Kong)



West Drainage Tunnel (Hong Kong)

Conveyor belt system



Client Government of Hong Kong
Main contractor Dragages-Nishimatsu Joint Venture
Sub-contractor Marti Technics Ltd.
Order value CHF 7.7 mn
Drawn up 2009



Services provided by Marti Technics Ltd.

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

Description of the system

- Tunnel conveyor East 4 015 m
- External conveyor East incl. disposal site 25 m
- Tunnel conveyor West 6 400 m
- External conveyor West incl. temporary disposal site and loading of ships 300 m
- Automation and electrical system

Technical data

Conveyor belt system

- Total quantity to be conveyed 600 000 t
- Flow rate for tunnel conveyor East 550 t/h
- Flow rate for external conveyor East 550 t/h
- Flow rate for tunnel conveyor West 750 t/h
- Flow rate for external conveyor West 1 150 t/h
- Driving power tunnel conveyor East 360 kW
- Driving power external conveyor East 37 kW
- Driving power tunnel conveyor West 810 kW
- Driving power external conveyor West 133 kW
- Belt widths East/West 800 / 1000 mm

Automation and electrical system

- Fully-automatic control of material flow from the tunnel boring machine to disposal site / ship
- Visualisation of conveyor belt system
- Installation of heavy-duty electrical supply 1 340 kW



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