

PROJECT SHEET

Thalofa Cement, Vietnam, 2-Way Troughed Conveyor

DemcoTECH was awarded the contract to design a 4.4 km long, 2-way troughed conveyor, for Thalofa Cement of Vietnam, to transport products to and from their new cement plant. DemcoTECH undertook the design and engineering of this conveyor for MvT Germany.

The troughed overland conveyor imports coal and clinker and exports powder cement in bulk or in bags. The clinker and coal handling rate is 900 tph and the bag-handling rate is 300 tph, both at a belt speed of 2.0 m/s. There are two loading points and two discharge points on this conveyor and the belt travel direction is always one-way, thus the top and bottom strand of the conveyor transport product.

At the ends of the conveyor, the top and bottom belt strands are separated so that the loading and discharge chutes can be fitted, together with their respective feed and discharge conveyors.

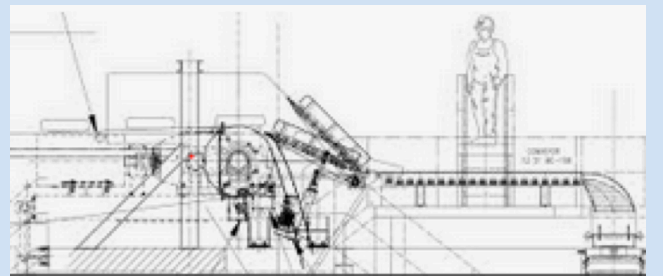
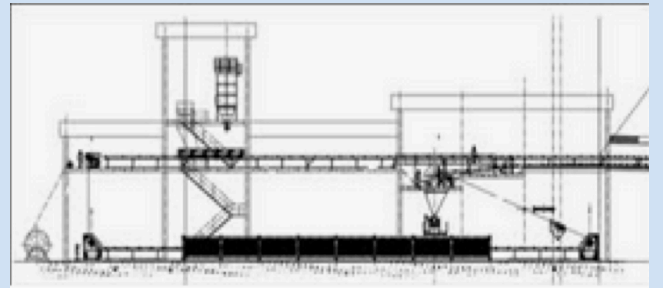
The conveyor features belt turnovers at both ends, distributed drive units and a single take-up. At the cement and cement bag discharge point the discharge chutework ensures that the bags are routed to a roller conveyor and when bulk cement is conveyed the cement is directed down a conventional transfer chute.

The drive control philosophy is critical and ensures that all three VSD-driven pulleys are engaged correctly to distribute the belt tensions correctly, irrespective of conveying direction chosen or the tonnage of material transported.

DemcoTECH undertook the online design engineering and equipment specification for all elements of the conveyor on behalf of the client.

DemcoTECH is a specialist bulk materials handling and niche process plant company, offering services from concept design through to project completion to the power generation, cement, mining, metallurgical, manufacturing and port handling industries. Services include conceptual design, feasibility studies, design, engineering, procurement, expediting, construction and commissioning.

Plant supplied by DemcoTECH includes troughed conveyors, air-supported conveyors, pipe conveyors, rail-mounted slewing boom stackers, pivot boom conveyors and mobile conveyors.



Client	Thalofa Cement / MvT Germany
Commodity	Cement, Clinker, Coal
Contract Type	Design and Engineer
Duration	7 months
Location	Vietnam