



Electric monorail system for pallet lifting trucks

EISENMANN VarioTow towing system, patent pending

New functions for the tried-and-tested electric monorail system from EISENMANN. To meet with customers' requests for individual problem solutions, EISENMANN Conveyor Systems has developed a concept combining the classical pallet lifting truck with a high-tech system.

The advantages are obvious: lift trucks can be operated by hand wherever necessary, such as when loading and unloading road trucks. Connected to the newly developed VarioTow towing system, the fork lift trucks serve as a conveyance for the electric monorail system. Long distances and complex materials flow sequences can thus be automated.

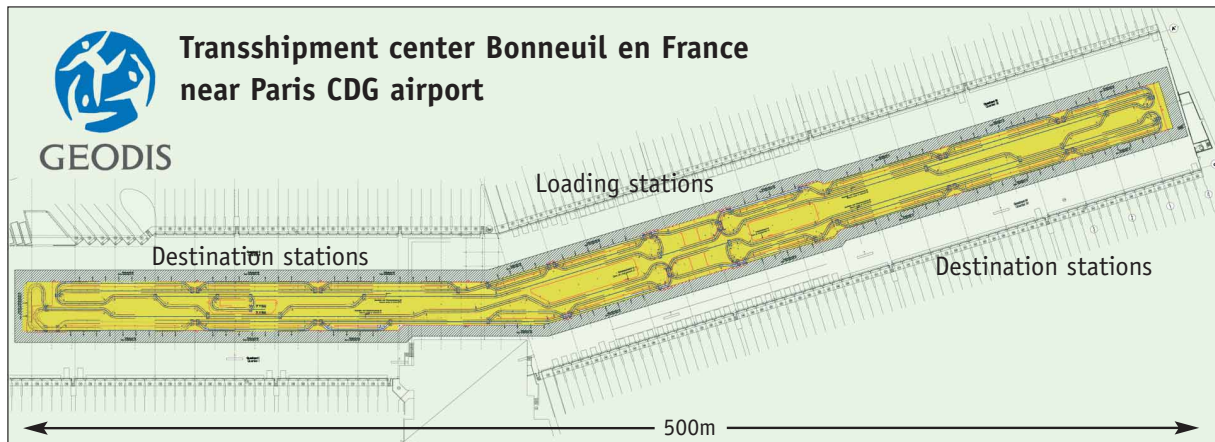
In the new transshipment center operated by GEODIS, a provider of logistics services near Paris, almost 1300 pallets have to be moved per hour over a widely branching distribution net-

work with 2400 meters of EMS rail. The decision to master this task with the aid of the electric monorail system was also confirmed by the KEY-LOG planning office retained by GEODIS.

Although alternative transport solutions, such as underfloor conveyors, could have performed as required, they would never have come anywhere near the highly intelligent control of the EMS trolleys. With this system, the flow of goods and materials can be mastered much more economically despite the considerable fluctuations encountered.

Moreover, the service-provider would also have had to spend a lot more money on lift trucks, for at least 600 such trucks would have been required for other solutions instead of the 200 actually needed now.





Europe's largest transport center

2400 meters of EMS rail transport goods to and from loading stations and destination stations. Designed for a permanent capacity of roughly 1000 pallets per hour, the 140 trolleys can move up to 1275 pallets per hour at peak periods.

Dimensions and weights

Pallets with a maximum base area of 1200 x 1200 mm, a maximum height of 2450 mm and weighing up to 1200 kg are moved on commercially standard pallet lifting trucks. They are linked to the tow-bar of the EMS trolley by means of a special coupling which is easy to operate by hand.

Control system

Use of the flexible and intelligent EISENMANN control system permits variable speeds of 80 m/min. on straight sections and 60 m/min. in bends. The control system configuration even accepts a change of destination while en route.

