

UNIQUE AND INNOVATIVE: SCHAEFER ORBITER SYSTEM



Case Study
LGI Logistics Group International (LGI),
Contract Logistics Company
Location: Hünxe (Germany)



Access to the aisle blocked thanks to the Docking Station



Safe and precise Docking Station lifting

Project objectives:

- ▶ to increase storage capacity by more than 30,000 pallet locations
- ▶ to optimize in-house processes by using an innovative shuttle solution
- ▶ to optimize flow of goods
- ▶ storage/conveying of two different types of loads (EURO and Industrial pallets)
- ▶ staging in the goods dispatch area for fast shipment via trucks



View of an aisle with the Schaefer Orbiter System

Scope of our deliveries/services:

- ▶ general contractor for logistics
- ▶ concept planning and plant design
- ▶ 3 Units (fire sections)
- ▶ 30,000 pallet spaces
- ▶ 12 Orbiter with Docking Stations
- ▶ Electrified multi-location storage system (incl. assembly)
- ▶ Fence system and protective floor rail for fork lifts
- ▶ Rack components
- ▶ Help with setting up the system



Fencing system for additional user safety

Fitted with the latest functional and power technology

LGI Logistics Group International GmbH (LGI) with approx. 2,000 employees in 33 locations, and a logistics area with a total of over 650,000 m² is one of the largest industrial contract logistics companies in Germany. LGI with its head office in Böblingen was founded as a result of outsourcing carried out by Hewlett Packard Deutschland GmbH in 1995 and is owned 100 percent by the Willi Betz group of companies. LGI has not only started to operate one of the largest new buildings in 2009 with their new location in Hünxe (North Rhine Westfalia), the distribution centre is also impressive from a technical point of view. The brand new Shuttle-System Orbiter from SSI Schäfer takes over the storage and retrieval in the multi-location storage system which has a roofed logistics area of 42,000 m². SSI Schaefer is using LGI in Hünxe as a pilot for the system.

Innovative lifting mechanics, State of the Art Personal Protection thanks to the Docking Station and the redundant design of the safety relevant components, extraordinary dynamics, as well as the highest degree of operating comfort could convince the contract logistics company that it is worthwhile.

The most important innovation is the revolutionary safety concept thanks to the use of a Docking Station as well as the power supply. The engineers have replaced the usual batteries with Power Caps. This type of power supply also enables the Orbiter to accelerate quickly and to move at a speed of at least 1 m/sec when loaded.



A view of the 42,000 m² compact warehouse

LGI-location has a compact warehouse with over 30,000 pallet spaces in a racking system with 449 aisles and four storage levels per aisle. In order to cope with a daily capacity of 2,500 storage and retrieval tasks, the warehouse has a total of 12 Orbiters. When an aisle or job has been completed, the Docking Station is moved into the next aisle together with the Orbiter.

Thanks to sprung side rollers as well as a variably adjustable distance check for pallet storage, handling of sensitive goods is carried out gently and without shaking.

Advantages at a glance

- Storage and retrieval speed 1m/second
- Power supply using Power Caps
- Suitable for deep freeze
- Intelligent storage technology for more efficient permanent use
- Redundant safety-related components
- Innovative lifting mechanism without hydraulics
- 4 high resolution controlled drives for performance as strong as an ox
- Intelligent system with extensive operating options
- High degree of operator comfort



Remote control with clear icons for easy handling



Leaflet:
Mobile Racking Systems



Leaflet:
Automated Mobile Racking Systems



Leaflet:
Schaefer Orbiter System



Case Study:
Eugster Frismag AG



Case Study:
COM40



Case Study:
Zandbergen B.V.

- ▶ General contractor for logistics
- ▶ Planning and consulting
- ▶ Warehouse control
- ▶ Control technology
- ▶ Steel construction / racking systems
- ▶ Racking storage and retrieval vehicles
- ▶ Conveying technology
- ▶ After Sales: spare parts, service and maintenance

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