



Automatic transport of carts

The perfect introduction to automated intralogistics with an automated guided vehicle system

FACT SHEET | AUTOMATIC TRANSPORT OF CARTS

Modular and expandable

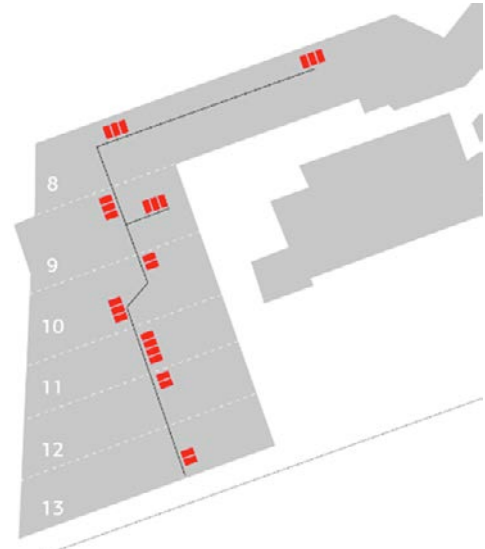
This solution is based on the use of mobile goods carriers (carts) which have an optimal ergonomic working height combined with a high payload of up to 1,135 kg and a usable loading area of 1,200mm x 800mm (to accommodate a EUR-pallet).

These transport carts can be maneuvered and loaded or unloaded at workstations or in storage areas.

Transportation to other areas or over longer distances is handled by an automated guided vehicle which picks up the goods carrier at handover stations and transports to the destination area.

Benefits:

- » Ergonomic
- » Intuitive controls
- » Reduced walkways and non-productive times
- » VDA5050 interface
- » Expandable at any time
- » Return on invest < 2 years in two-shift operation



AGV system layout

Basic information of sample plant

Automated guided vehicle	2 x type L1200S
Stations	9 x equipped with 2-5 single parking spaces
Software	Universal Control System (manufacturer-independent) and Warehouse Control System
Transport carts	30 x carts
Payload cart	Approx. 1,135 kg
Transport good	1,200 x 800 mm (optionally other dimensions)
Control units	9 x tablet (by customer)
Charging station	1 x for automatic charging with fixed contacts
Operating time	24/7
Communication with gates	High-speed door / fire protection gate / fire alarm system via WLAN box
Average transport capacity	Up to 20 transports per hour
Distance traveled	> 500 km / month / shift (for 95 m single transport)
Working time savings	> 280 h / month / shift (at 0.5 m/sec incl. idle and communication times)
ROI	< 2 years in two-shift operation

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