

Phoenix TN-0.4 Lr

DRIVERLESS



Type of vehicle

- High-lift fork truck
- High-shift stacker
- Straddle truck
- Telescoping mast stacker
- Spreader stacker
- Drawbar stacker
- Teleskoping fork stacker
- Side shift stacker
- Narrow-aisle stacker
- High-rack stacker
- Tractor
- Drive-under tractor
- Platform truck
- Other**

Special equipment

- RFID-/barcode reader
- Weighing function
- Metering function
- Roll conveyer
- Belt conveyer
- Chain conveyer
- Flexible load handling
- Cover lift**
- Dual operation
- Stainless steel vehicle
- Clean room vehicle
- Outdoor vehicle
- Heavy-duty vehicle
- Other

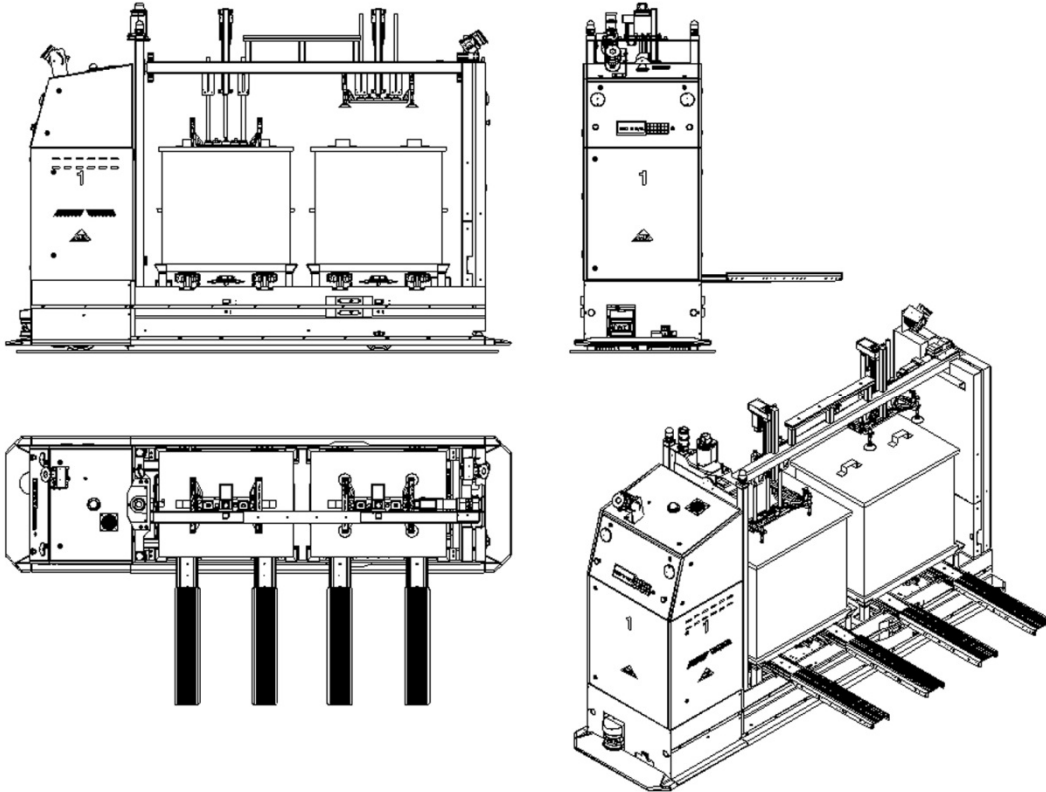
Application example Medical manufacturer

MLR implemented an automated guided vehicle system for a medical manufacturer, where the free-navigating transport vehicles each pick up two stainless containers, which have to be transported with closed covers for hygienic reasons, at one station, and transport them to delivery locations within the factory. Before the containers are released, the device developed by MLR is used: Suction feet extend for both containers at the same time, make contact with the cover, which weighs up to 12 kg, and raises it up. At the same time, four telescoping forks extend out to the sides, dock with the station with a positioning accuracy of 2 mm, and transfer the containers, which are now open. The covers are automatically placed in the station.

The 3,461 mm long, 940 mm wide, and 2,400 mm high vehicles weigh 2,400 kg when empty and can transport loads of up to 1,200 kg. Travel speed is up to 1.5 m/s. The automated guided fork trucks can optionally be equipped with barcode scanners or RFID readers.

Control and coordination of the automated guided transport vehicles are performed by the dedicated MLR control system LogOS, using the LogOS-FTS module.

Technical Data



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Transport materials	Stainless steel container with cover (960 x 724 x 907 mm)
Load capacity	2 x 250 kg
Length of travel route	425 m
Load Suspension Device	Front end vehicle with two telescopes on an eccentric stroke, cover handling
Speed	1.5 m/s
Battery	45.6V, 95Ah, NiCd
Load transfer	57 stations on frames, two shelf units with 650 spaces each
Handling systems	Two automatic shelf access units, two shelf systems with conveyors
Navigation	Laser navigation
Controller	LogOS, LogOS LVR, fire protection door controls