

# Phoenix PN-1,5 Lr

## Type of vehicle

- High-lift fork truck**
- High-shift stacker
- Straddle truck
- Telescoping mast stacker
- Spreader stacker
- Drawbar stacker
- Teleskopung 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 conveyor
- Belt conveyor
- Chain conveyor
- Flexible load handling
- Cover lift
- Dual operation
- Stainless steel vehicle
- Clean room vehicle
- Outdoor vehicle
- Heavy-duty vehicle
- Other

**DRIVERLESS**



## Application example Pharmaceutical company

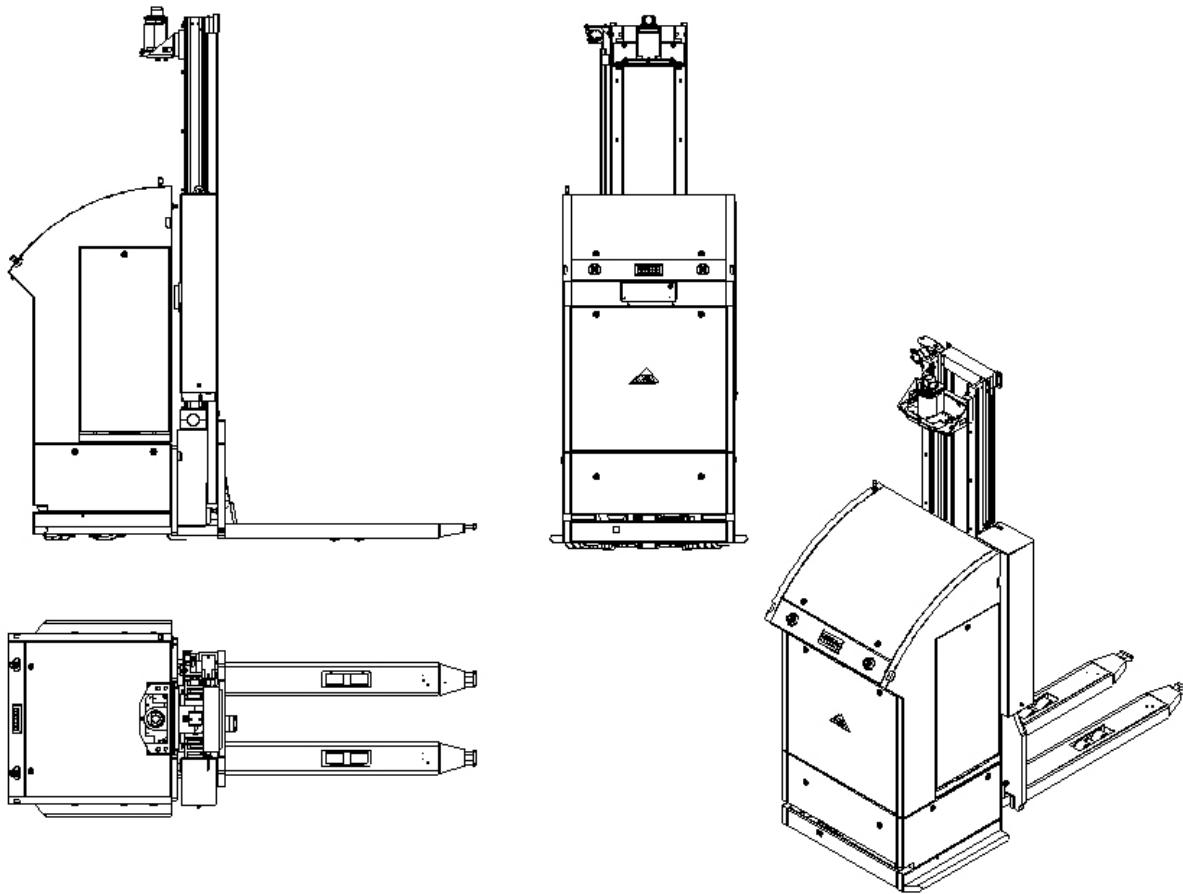
MLR developed and implemented an automated guided vehicle system (AGVS) for a pharmaceutical company that connects individual functional areas where production, filling, commissioning, packaging, storage, and shipping take place. The Phoenix series freely navigating vehicles transport loaded aluminum pallets, Europallets and disposable pallets, and stainless steel and hazardous goods containers.

The automated guided vehicle system is controlled by MLR's proprietary management and control software, LogOS. It manages all the vehicles and locations, load changes, workstations and battery charging stations.

It sends the vehicles to the waiting position or the battery charging station as needed. It controls the installed rapid action doors, and monitors the fire protection doors and extinguishing system.

Data are transmitted between the main computer and the vehicles via a full-coverage local Wifi radio network.

# Technical data



## Phoenix R-1,5 Lr

Dimensions (l x w x h)	2,312 x 1,000 x 2,703 mm
Weight	1,620 with battery
Load capacity	1,500 kg
Ground clearance	35 mm
Speed	1.6 m/s forward and reverse
Load	Wood pallets, metal pallets, boxes, containers, big bags max. dimensions (l x w x h): 1.200 x 800 x 2.100 max. weight: 1,500 kg
Energy concept	43.2 V / 230 Ah Li-Ion
Navigation	Laser
Safety equipment	Laser scanner front and rear, bumpers front and rear, side strip sensors, E-stop buttons at front and rear