

# Phoenix K-2,0 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 conveyor
- Belt conveyor
- Chain conveyor**
- Flexible load handling
- Cover lift
- Dual operation
- Stainless steel vehicle
- Clean room vehicle
- Outdoor vehicle
- Heavy-duty vehicle
- Other

## Application example ELSA-MIFROMA

The ELSA-MIFROMA group specializes in the production and packaging of dairy products. The Swiss market leader process 269 million kilograms of milk annually at its largest dairy in Estavayer-le-Lac.

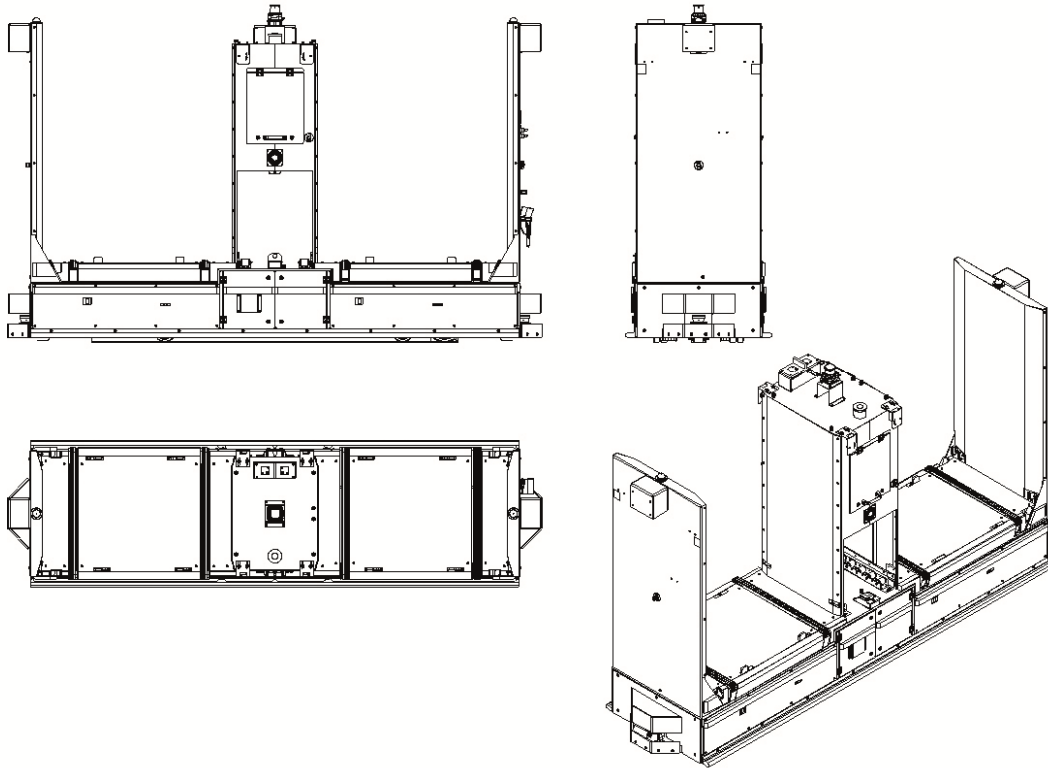
MLR replaced and updated the existing AGV system in Estaver-le-Lac. The 15 existing vehicles underwent complete reengineering. The vehicles were completely decommissioned, electrical and electronic components removed and inspected, and new drive units with controllers, navigation, and on-board computers were installed. MLR also delivered two identical new vehicles.

The 17 specialized automated guided vehicles transport pallets carrying dairy products. Each is equipped with a double chain conveyor that it uses to independently receive pallets staged on a 600 mm high conveyor system.

The maneuverable 4-wheeled vehicles have two drive and steering units each at the front and rear. This allows them to move sideways or diagonally in tight spaces.

The system is laid out to perform up to 300 transport tasks per hour, and it runs around the clock, 24 hours a day, seven days a week, 365 days a year.

# Technical data



## Phoenix K-2,0 Lr

Length	3,940 mm
Width	1,075 mm
Height	2,479 mm
Weight with battery	2,170 kg
Load capacity	2,000 kg
Ground clearance	30 mm beneath the vehicle frame
Speed	1.5 m/s forward and backward
Drive	48 V/1.2 kW (2 x RNA 27)
Battery	Li-Ion battery 44.4 V/280 Ah
Protective devices	Strip sensors on the sides; laser scanners at the front and rear; Emergency stop buttons on the front, rear, and sides; inspection switch
Appropriate loads	Europallets with and without container nest Dimensions (L x W x H): 1,245 x 855 x 1,750 mm Weight: 2 x 1,000 kg