

Phoenix R 2,0 Mr

DRIVERLESS



Type of vehicle

- High-lift fork truck
- High-shift stacker
- Lift stacker
- 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 Deutz

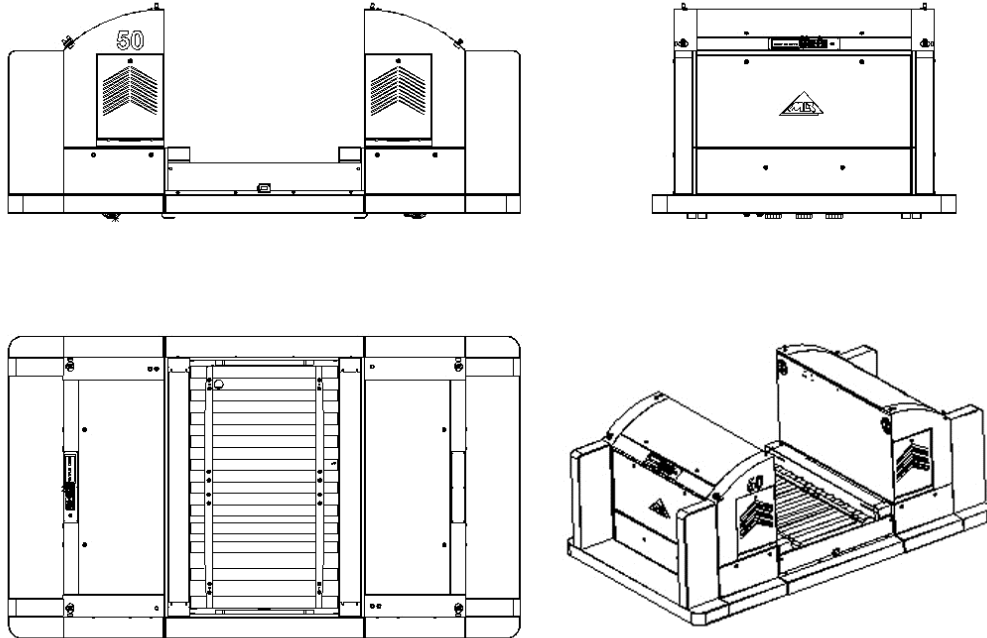
In the Deutz AG engine plant, an automated guided transport system (AGVS) carries test pallets with diesel engines between the assembly routes, the test benches, the rework stations, the washing machine, and the purging stations.

The automated vehicles pick up the test pallets from the assembly route and transport them to the test bench. Then they pick up the engines after the testing is complete and bring them to the purging station. Whenever possible, double routes are run, that is, an engine is not delivered until another one is ready to be picked up. If defects are found, the engines first go to a rework station.

The automated guided vehicles are equipped with an adjustable-height roller conveyor, so they can load and unload pallets from the various stationary conveyor systems at heights between 390 and 410 mm. The 6-wheeled vehicles can move in any direction on a flat surface. The nickel-cadmium batteries are charged via contacts located in the floor.

The automated guided vehicles are controlled and coordinated by MLR's proprietary LogOS management and control software, which is connected to the Deutz assembly management system that controls all of the processes in the test area.

Technical data



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Dimensions (l x w x h)	3,547 x 2,100 x 1,450 mm
Weight	2,850 kg (with battery)
Load capacity	max. 2,000 kg
Ground clearance	35 mm beneath the vehicle frame
Speed	Linear travel: max. 0.6 m/s (forward and reverse) Sideways travel: max. 0.3 m/s (forward and reverse)
Energy concept	NiCd battery 45,6V / 104 Ah
Data transfer	Wifi
Navigation	Free magnetic
Protective devices	Horizontal and vertical bumpers on front and rear Horizontal bumpers on the sides Two E-stop buttons at front and rear
Loads	Engine test pallets Dimensions: max. 1,000 x 1,700 x 1,475 mm (L x W x H); Weight: max. 2,000 kg