



Robotic tow tractor P-MATIC

Series 1190

Safety

Thanks to its smart safety management, the P-MATIC anticipates and reacts autonomously to its direct environment. Advanced obstacles' detection provides real time speed adjustment to enhance the productivity while offering the utmost safety.

Performance

The unique infrastructure-free geoguidance system makes the solution flexible and scalable. Stand alone or within larger fleets of robotic trucks, the P-MATIC can easily interact with the customer's environment (doors, conveyors..) and even interface with WMS/ERP. The P-MATIC will always deliver the optimal drive speed to achieve the maximum throughput.

Comfort

The P-MATIC is natively designed to work in a shared environment with people. The user-friendly interface provides all needed controls & information at a glance. Moreover, the dual driving mode makes the P-MATIC intuitive to switch automatic/manual.

Reliability

Fully integrated in the warehouse product range, the P-MATIC benefits from all Linde quality standards, and the robust "DRIVEN BY BALYO" navigation technology. Always available, the P-MATIC will support your business 24/7 while offering significant costs-savings.

Productivity

Efficiency at work, efficiency in servicing. With a computerized & remote diagnostic system, combined with predictive maintenance program, the P-MATIC remains available at any time.

Linde Material Handling

Linde

Standard Equipment/Optional Equipment

Standard Equipment

Navigation module on a robust frame with lighting signals, control panel, touch screen, communication module, navigation laser, front safety scanner, traction & steering software management

Drive wheel and tandem load wheels polyurethane

Lateral change 4PzS

Pre-setting for wet battery

Key switch truck access

Lighting status column

3D camera for volume perception (technical conditions apply)

Optional Equipment

Pre-setting for gel battery

Fixed battery stand 2 batteries

Cable/connector Flex

Cable/connector Perfect

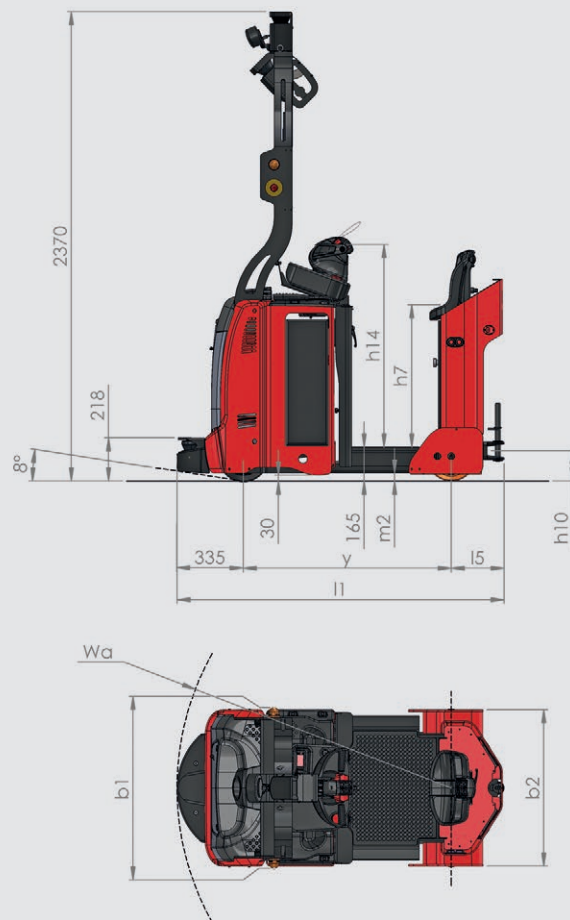
3 m cable extension

2D curtain laser

Blue spots single

Additional louder horn

Call button (COMBOX)



Features

Driving system

- Standard truck converted into a robotic truck
- Dual driving mode - automatic/manual
- Navigation laser, safety front scanner, 3D camera, embedded computer, emergency stop buttons, light and sound warning indicators



Geoguidance navigation

- Innovative infrastructure-free technology (no reflector)
Relies on existing structural features (walls, columns, racks...)
- Real time mapping and localization
- Seamless integration in existing layouts, gradual extension or global deployment



Smart safety

- Real time speed-adaptive detection fields
- Dynamic cornering detection fields
- Autonomous decision-making capability with 3D camera
- Natural cohabitation with operators and other trucks
- Pallets or obstacles detection thanks to the rear laser scanner



User interface

- 7" LCD touch screen
- Robotic truck, battery and system status
- Real time task management and report
- Intuitive path localization
- Service mode with PIN access
- Log extraction via USB



Operations management

- Trailers transport management
- Stand alone or WMS/ERP directed
- Supervisor software for task and smart traffic management
- Various task triggers: call buttons, sensors, PLCs, Supervisor software ...

Subject to modification in the interest of progress. Illustrations and technical details could include options and not binding for actual constructions. All dimensions subject to usual tolerances.



ncnielsen

Nørregade 66, DK-7860 Balling | Tlf.: +45 99 83 83 83
nc-nielsen.dk | info@nc-nielsen.dk