

Intelligent. Easy. Cost-Effective. Autonom. Transportation.

AMR



The Mechafant® is an autonomous mobile robot (AMR), that can handle payloads up to 1.400 kg*. It is designed for usage in environments where people move and unexpected obstacles can occur.

*in other configuration up to 3.000 kg

Navigation



The Mechafant® has intelligent navigation and motion control. Combined with a software for automatic map generation and orientation, the mobile robot moves autonomous and safe inside a defined working area.

Based on the abilities of the Mechafant® modifications to the shopfloor are not necessary.

Pallet lifting module



Due to the unique superstructure with hydraulic driven forks the Mechafant® can pick up pallets directly from the shopfloor without any assisting machinery. In addition, it is also possible to transfer pallets up to a maximum height of 3.000 mm. The positioning accuracy is less than +/- 10 mm. Final pallet position is detected by a camera system.

Safety



Safety and efficiency according to ISO 3691-4.

The Mechafant® can be used reliably in various applications.

Integration into existing logistics and production systems for smooth operation is ensured.

Fleet Management



The fleet management tasks are executed by intelligent software that performs traffic control, job distribution and navigation of the robots. It constantly monitors all robots regarding their position, orientation and status. Based on this data the software determines which robot has to perform the next task to ensure the best possible flow of goods.

Application



Very wide range of applications, thanks to standardized pallet format.

Suitable for all types of material transport in production, logistics and automation.

Ideal for bridging long distances or when systems and machines are set up at a distance from each other and the material flow is to be closed.

Technical Data



Features.

- Camera system to detect final pallet position before being picked up by the Mechafant®
- Automatic charging station
- BlueSpot
- Lidar for navigation

Panel.

7 Zoll HMI-Display

Control.

SPS

Interfaces.

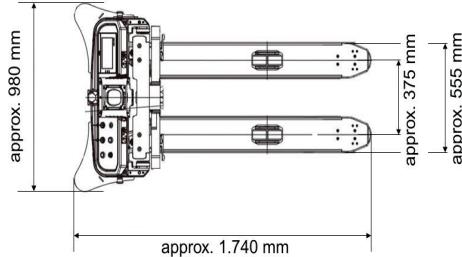
W-LAN 802.11 a/b/g/n/ac
Ethernet Ports (1xMaintenance, 1xUser, 2xInternal)
Emergency Stop Button

Review

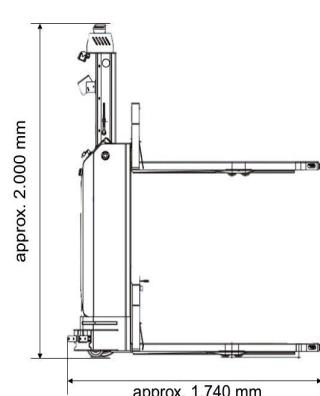
Pallet weight max.	Height	Lifting time	Velocity	Rotation radius
1.400 kg* *in other configuration up to 3.000 kg	min. approx. 60 mm, max. approx. 3.000 mm	approx. 5 sec./m	max. 1,2 m/s	approx. 1.250 mm

Battery

Battery	Capacity	Type	Run time (loaded)	Recharge time	Charging Method	Power Supply
24 VDC	180 Ah	LiFePO4	ca. 10 h	ca. 2 h	Automatic	230 V oder 400 V



Mechafant®-PJ 14/3000



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Scan and get more information:



All data are approximate and can vary. Changes are reserved.