

Intelligent. Easy. Cost-effective. Autonomous. Transportation.

AMR



The Mechafant[®] is an autonomous mobile robot (AMR), that can handle payloads up to 2.000 kg. It is designed for usage in environments where people move and unexpected obstacles can occur.

Navigation



The Mechafant[®] has intelligent navigation and motion control. Combined with a software for automatic map generation and orientation, the mobile robot moves autonomously and safely inside a defined work area.

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

Pallet lifting module



Due to the unique superstructure with hydraulically 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 5.000 mm. The positioning accuracy is less than +/- 10 mm. Final pallet position is detected by a camera system.



PJ 14/3000



PJ 15/205



PJ 20/5000



FL 20/4000

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 inches HMI-Display

Control.

SPS

Interfaces.

W-LAN 802,11 a/b/g/n/ac
Ethernet Ports (1xMaintenance,
1xUser, 2xInternal)
Emergency Stop Button

Variants



Model	PJ 14/3000	PJ 15/205	PJ 20/5000	FL 20/4000
Variant	Pallet Jack	Pallet Jack	Pallet Jack	Fork Lift
Load capacity [kg]	1.400	1.500	2.000	2.000
Lifting height [mm]	3.000	205	5.000	4.000
Speed [m/s]	1,5	1,4	1,5	1,5
Positioning accuracy [+/-mm]	10	10	10	10
Turning radius [mm]	1.270	1.532	1.745	1.585
Runtime [h]	8	8	8	12
Loading time [h]	2	1	2	5
Specifications [V / Ah]	24 / 210	48 / 46	24 / 210	48 / 315

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