

PALOMAT[®] AMR

Improve your internal logistics with automated pallet handling

Communicates with mobile robots





Makes logistics even better

The world is calling for high-tech solutions, involving simple work tasks to be streamlined and automated. This ground-breaking and seamless cooperation between the PALOMAT® AMR and mobile robots (AMRs), lifts the workflow of your internal logistics to an even higher level.

The pallet magazine automatically stacks and destacks pallets onto the mobile robot, functioning as a pallet buffer and docking station, and thus maintaining a consistent and efficient pallet flow 24/7 inside any company - without human interference.

By communicating independently, PALOMAT® AMR and mobile robots optimise workflows and improve internal logistics, by eliminating time spent on manual pallet handling. This frees up internal hours used at monotonous tasks, enabling your company to focus your skills and employees on higher-valued work tasks.

This makes the PALOMAT® AMR the perfect add-on to unleash the full potential of your mobile robot.

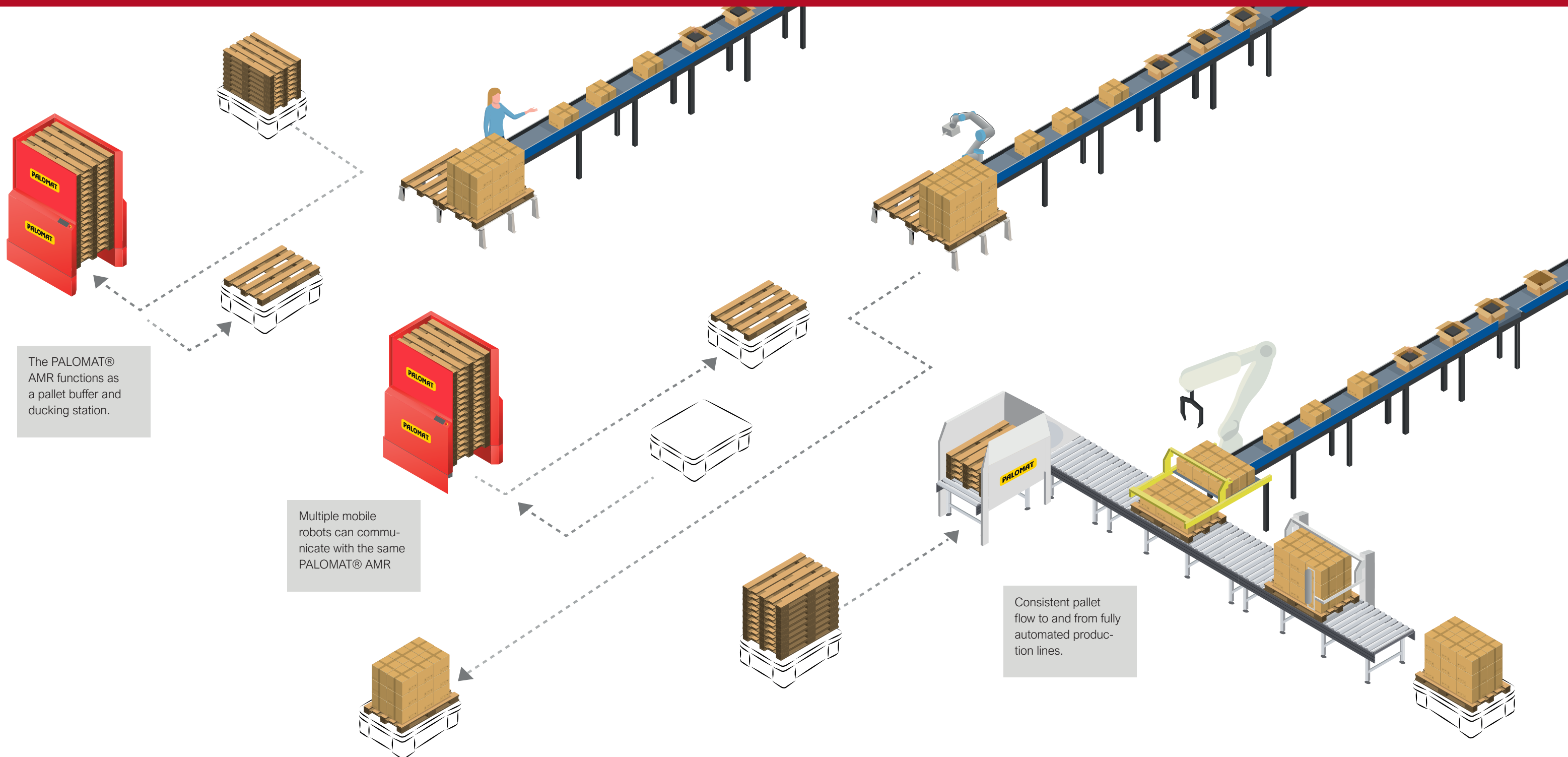
Why choose PALOMAT® AMR?

- › Save time and free up manpower for higher-valued work tasks
- › Improve the workflow of the mobile robot by automating pallet handling
- › Fully automated pallet buffer and docking station which ensures correct and uniform stacking/destacking on the mobile robot
- › No more manual pallet handling
- › Improve work environment by utilising safe cooperation with people and other machines
- › Streamline internal logistics and supply chain with efficient pallet flows
- › Simple installation and 100 % electrically powered (230V plug)
- › Easy connection with the mobile robot and prepared to communicate with the interface

Unleash the full potential of your mobile robots

Efficient pallet flows with mobile robots

The PALOMAT® AMR functions as a natural part of the production, warehouse, packaging facility etc. – inbound as well as outbound. In cooperation with a single or multiple mobile robots, it streamlines the pallet flow, boosts productivity, improves work environment and frees up human resources for higher valued work tasks – making logistics even better and smarter.



The PALOMAT® AMR functions as a pallet buffer and ducking station.

Multiple mobile robots can communicate with the same PALOMAT® AMR

Consistent pallet flow to and from fully automated production lines.

Your partner for palletisation



Since 1992, PALOMAT® has been the world's leading manufacturer of pallet magazines, and we strive to be first movers within the development of efficient and safe pallet handling with "no manual pallet handling" as our mission.

We place great emphasis on being an innovative manufacturer via continuous product development. Safety in the use of products is of high priority to us. Thus, all our pallet magazines comply with the applicable Machinery Directive, which is your guarantee for palletising solutions manufactured in compliance with the demands for health, safety and the environment.

Providing a strong Danish product of high quality, has made us the preferred supplier for many national and international companies. Over 20,000 pallet magazines have already been produced and delivered worldwide.

All development, construction and production take place in Denmark, with a high focus on innovation and continuous product development to meet market demands for ergonomics and optimised efficiency.

As a division of BILA A/S, Scandinavia's leading automation partner, we benefit from our global network of dealers and machine manufacturers, ensuring seamless collaboration and support worldwide.

Technical information

Efficient pallet handling with mobile robots (AMRs). All models are delivered with an AMR interface for external equipment, making it possible to exchange signals between the PALOMAT® and the mobile robot for independent communication.

Technical specifications

Power source: 100-240VAC 50-60 Hz
1P+N+PE

Actuator: Linak

Control: Siemens S7-1200

Software: Including program in the PLC – ready to communicate with the interface

Interface: 24VDC I/O signals for external equipment (OPC UA + Harting connector)

Capacity: 15 pallets/ 500 kg

Cycle time per pallet: 15 sec.

AMR interface

Outputs: [Continuous signal]

Signal - PALOMAT® empty (de-stacking)

Signal - New pallet ready to be picked up

Signal - PALOMAT® full (stacking)

Signal - PALOMAT® ready for pallet

Signal - Error

Inputs: [Pulse 3-4 sec.]

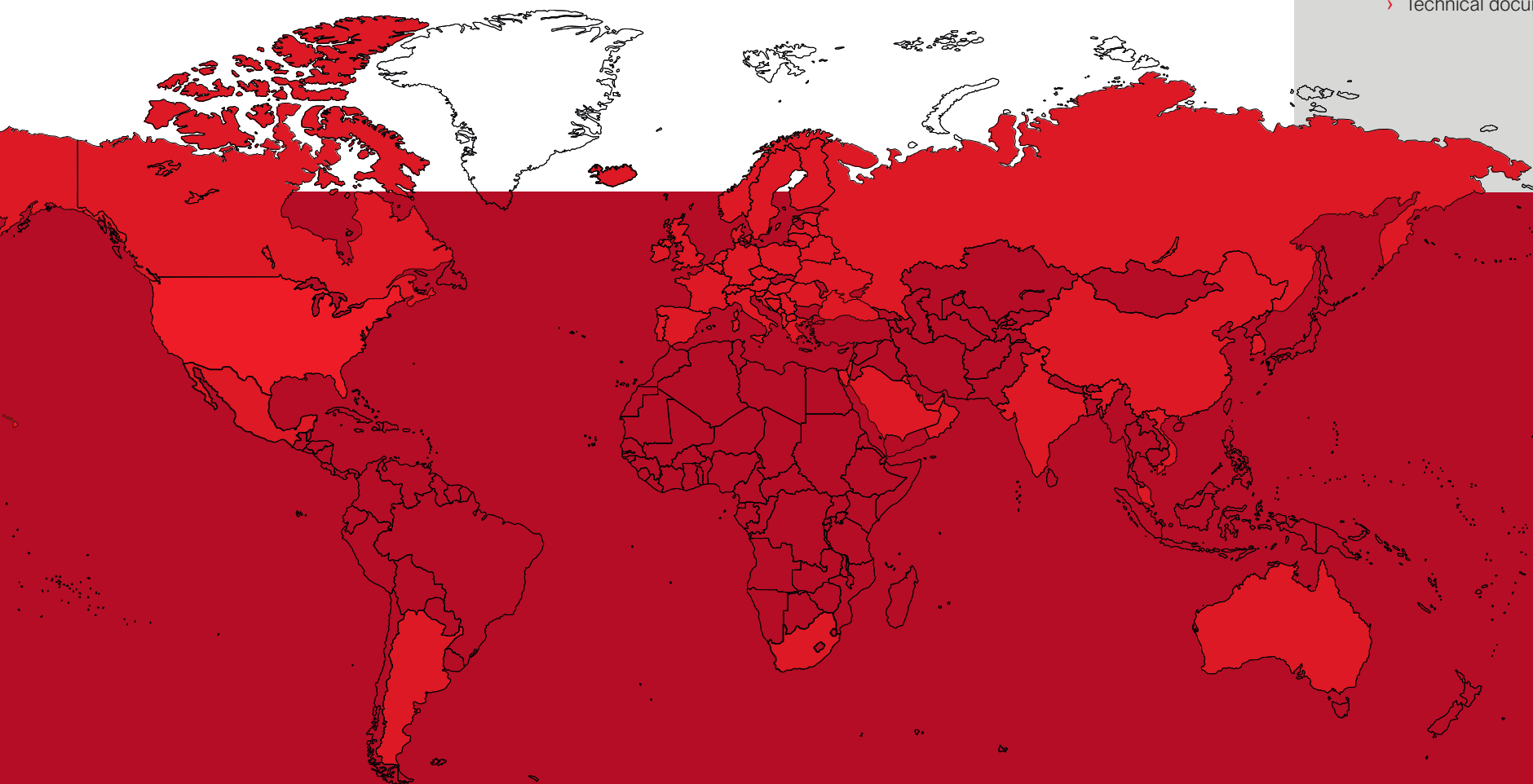
Signal - Choose de-stacking

Signal - Choose stacking

Signal - Emptying the PALOMAT® (full stack)

Includes

- › Safety frame for 15 pallets
- › Maximum indicator for 15 pallets
- › Technical documentation





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STREAMLINING YOUR BUSINESS

PALOMAT

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