

MAKE LOGISTICS EVEN BETTER

**PALOMAT**

Powered by BILA

# PALOMAT<sup>®</sup> AMR



THE FUTURE OF AUTOMATED PALLET HANDLING

# Internal logistics of the future



## PALOMAT® AMR

### The ground-breaking solution for automated pallet handling

The world is calling for high-tech solutions, involving simple work tasks to be streamlined and automated. The ground-breaking cooperation between the PALOMAT® pallet magazine and Autonomous Mobile Robots (AMRs), lift the workflow of internal logistics to an even higher level. With a partnership so strong and flexible, your customers are guaranteed a step closer to the future of automated pallet handling.

By communicating independently, the PALOMAT® and AMR re-think your customers' infrastructure by releasing manpower previously spent on manually loading the AMR. The pallet

magazine automatically stacks and destacks pallets onto an AMR, functioning as a pallet buffer and docking station, and thus maintaining a consistent pallet flow inside any company. Every work task performed is communicated via a signal exchange between the PALOMAT® and AMR. This partnership forms the future-proofed pallet magazine, PALOMAT® AMR.

PALOMAT® AMR optimises the AMR's workflow and improves internal logistics by eliminating time spent on manual pallet handling. This releases time from monotonous tasks, enabling your customers to focus their skills on high-valued work tasks.

**> What are you waiting for?** Future-proof your customers' productivity, supply chain, competitiveness and bottom line with PALOMAT® AMR today!

# Save time and money



## The perfect partnership - PALOMAT® AMR

- Time saving and releases manpower for more valuable tasks
- Improving the workflow of an AMR by automating pallet handling
- Correct and uniform stacking/unstacking on the AMR and a fully automated pallet buffer and docking station
- Streamlined internal logistics and supply chain with an efficient pallet flow
- Improved work environment by utilising safe cooperation with people and other machines
- No more manual pallet handling
- Easy installation and 100 % electrically powered from a 230V plug
- STEP/DWG drawings ready for implementation in your own floor layout
- Easily connected with an AMR and prepared to communicate with the interface
- Technical hotline support, 24/7 – 365
- The PALOMAT® AMR is built on more than 30 years' experience within the development, construction and production of pallet magazines – your guarantee for expert advice and reliable solutions.



# A thought-out partnership

To ensure a safe and uniform stacking and destacking on the AMR, PALOMAT® AMR is modified with a bottom frame and wheels on the side plate, securing adjusted placement and stabilisation.

For a consistent pallet flow, PALOMAT® AMR automatically informs the AMR when to empty the pallet magazine, by means of the installed maximum indicator for 15 pallets.

Furthermore, for improved safety, the pallet magazine is installed with a light curtain on each side.

The PALOMAT® AMR comes with software – a complete programme in the PLC, communicating with the interface. Thus being prepared to communicate with the AMR.

To support a simple installation, the PALOMAT® AMR is 100% electrically driven – only a 230V plug is needed – making it easy to change location of the pallet magazine if the workflow changes. It is easily done with a hand pallet truck or forklift truck.





# PALOMAT® AMR

Internal logistics  
of the future



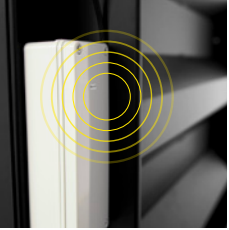
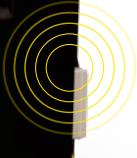
Light curtain



Maximum indicator

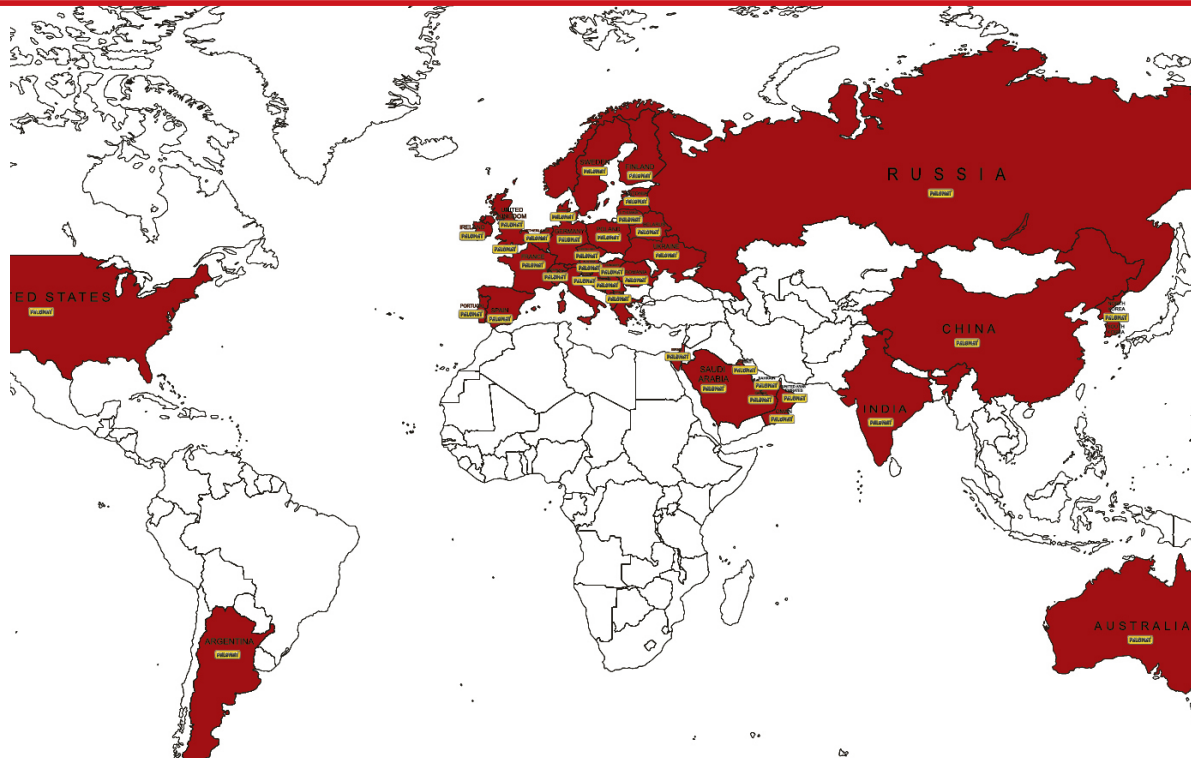


Wheels



Interface

# Your partner for palletisation



Since 1992, BILA A/S 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. Therefore, with the PALOMAT® AMR – a solution never seen before – we provide companies worldwide with a method of handling pallets automatically without human interference.

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, PALOMAT® is the preferred supplier for many national and international companies. 12,000 pallet magazines have already been produced and delivered worldwide.

We have a strong international dealer network with dealers in more than 40 countries worldwide, where each dealer is affiliated to one Sales Coordinator. Our dedicated team takes pride in training our dealers in our products.

For more than 30 years, we have conducted all development, construction and production at Mors, Denmark, where we are an independent division of BILA Logistics.

**> Are you ready to take the next step?** Contact us today and let us help you improving your customers' internal logistics.

# Technical information



PALOMAT® AMR is CE approved and compliant with the latest Machinery Directive. This is your guarantee for a product in accordance with the given health, safety and environment requirements. When PALOMAT® AMR is integrated into a solution, the responsibility of the overall CE approval shifts to the project manager/integrator in question.

## Includes:

- Safety frame for 15 EUR-pallets / 500 kg
- Maximum indicator for 15 EUR-pallets
- Technical documentation
- Example sequence diagram for programming.

To integrate the PALOMAT® AMR into the GoPal system, an interface kit from Robotize is required. With the kit mounted the Robotize GoPal system can communicate with the PALOMAT® and thereby fully automating the process of stacking or destacking empty pallets. A 3D camera is supplied as part of the interface kit to increase safety and ensure that full pallets are prevented to enter the PALOMAT® AMR.

## Interface specifications:

### Outputs: [continuous signal]

- Signal – PALOMAT® empty (destacking)
- 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 destacking
- Signal – Choose stacking
- Signal – Emptying the PALOMAT® (full stack).

## Technical specifications:

- **Actuator:** LINAK
- **Steering:** Siemens S7-1200
- **Power source:** 220-240VAC 50Hz 1P+ N + PE
- **Capacity:** 15 EUR-pallets, 1200 x 800 x 144 mm
- **Cycle time per pallet:** 10-15 sec.
- Compatible with GoPal E22 and GoPal E24 from Robotize.

## Service:

- Technical hotline support: 24/7-365
- +45 96 69 47 10
- [info@palomat.com](mailto:info@palomat.com).



## Standard colour:

**RAL  
9011**

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Find out more at [WWW.PALOMAT.COM](http://WWW.PALOMAT.COM)