



MAKE WORK FLOW



PALOMAT® AGV

EFFECTIVE PALLET FLOW · UNIFORM DOCKING · EASY INSTALLATION



PALOMAT® AGV is delivered with or without software:



With software it includes the program in the PLC, which communicates with the interface. It is ready to communicate with driverless forklifts.

Without software the program in the PLC will have to be modified (using a TIA-program) in order for it to communicate with the interface. The PLC has been prepared with wiring.



PALOMAT® AGV is CE approved. When integrated into an automation solution, the project manager/integrator is responsible for the overall safety approvals.



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Streamline your internal logistics

Partner up with the PALOMAT® AGV

The world stands at the cusp of the fourth industrial revolution - Industry 4.0, where robotics and artificial intelligence play a crucial role. As a provider of driverless forklift - AGVs,

you already take the lead with the newest technology in the field of production optimization. You can boost your customers' competitive edge and future-proof their business.

➤ Offers optimization solutions where fully automated pallet handling and driverless forklifts are easily integrated into existing internal logistics processes

Driverless forklifts and the PALOMAT® AGV pallet magazine pair perfectly to automate and streamline pallet flow.

The pallet magazine is a fully automatic ergonomic tool to stack and destack empty pallets individually at floor level.

The PALOMAT® AGV is delivered with a communications interface enabling it to exchange signals with driverless forklifts. This interface allows the pallet magazine to communicate independently with supported driverless forklifts, maintaining a continuous flow of pallets to and from the production line.

With PALOMAT® AGV the driverless forklift functions at floor

level thus optimizing its workflow. The pallet magazine is always ready to either deliver (destack) or receive (stack) a pallet from the driverless forklift at uniform height. If the PALOMAT® AGV is empty or full, it will signal the driverless forklift, which will ensure that the pallet magazine is filled or emptied.

Partner up with the PALOMAT® AGV and offer your customers more effective internal logistics by optimizing the driverless forklifts – and become a more powerful supplier.

Why PALOMAT® AGV?

- Delivered with the AGV interface with 24VDC I/O signals for external equipment
- Ensures a uniform docking – always stacks and destacks at floor level
- Delivered with or without software (a complete program within the PLC)
- Is offered in both a 100% electric version and a pneumatic version
- Can communicate with most types of driverless forklifts
- Delivered with complete documentation in your customers' languages
- Easy installation
- Customer drawings to use in your own layout (step/ dwg)
- 25 years' experience in the production of pallet magazines



➤ **PALOMAT® AGV** can be included as an integral part of the workflow in production lines, warehouses, and packaging departments where it, in conjunction with driverless forklifts, will streamline the flow of pallets and increase productivity.

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Technical information

PALOMAT® AGV Electrical			
Product	Pallet size L x W x H (in)	Lifting capacity/ No. of pallets	Machine dimensions L x W x H (in)
BLOCK	48x40x5.56	1102 lbs./ 15	60x61.3x92.5*
BLOCK	48x40x5.56	1102 lbs./ 15	60x61.3x92.5**
STRINGER	48x40x4.75	1102 lbs./ 15	60x61.3x92.5*
STRINGER	48x40x4.75	1102 lbs./ 15	60x61.3x92.5**

All models include the AGV interface with 24VDC I/O signals for external equipment, which makes it possible to exchange signals between the PALOMAT® and AGV:

AGV INTERFACE

Output from PALOMAT® to AGV: [Persistent indication]

- Signal for empty magazine (destacking)
- Signal that a new pallet is ready to be retrieved (destacking)
- Signal for full magazine (stacking)
- Signal that the magazine is ready for a new pallet (stacking)
- Error/breakdown signal

Input from AGV to PALOMAT®: [Pulse 3-4 sec.]

- Signal to choose Destacking
- Signal to choose Stacking
- Signal to choose Emptying

ELECTRICAL SPECIFICATIONS

Digital **outputs** Relay 2A: [Potential-free]

Rated value (DC):..... 5V DC to 30V DC

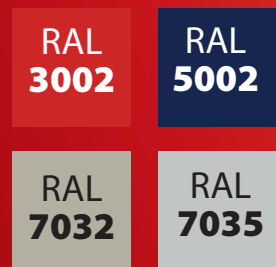
Rated value (AC):.....5V AC to 100-240VAC

Digital **input**: [Potential-free]

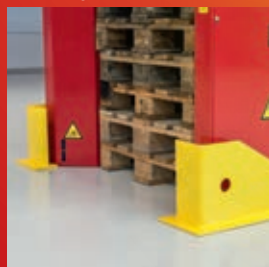
Rated value (DC):.....24V DC

OPTIONS

4 standard colors



Forklift protection



Actuator: Linak

Control: Siemens S7-1200

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



* Hardware and software prepared

** Hardware prepared

Delivered with safety frame and maximum indicator for 15 pallets



MEASUREMENTS

L: 1520 mm W: 1340 - 1540 mm H: 2350 mm

We place great emphasis on being an innovative manufacturer with continuous product development. Safety is a priority for us and the PALOMAT® models comply with the applicable EU Machinery Directive, this is your guarantee that it has been manufactured in compliance with guidelines for health, safety, and the environment. The PALOMAT® pallet magazine is a Danish design manufactured in Denmark since 1992.



Read more at

www.palomat.com

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