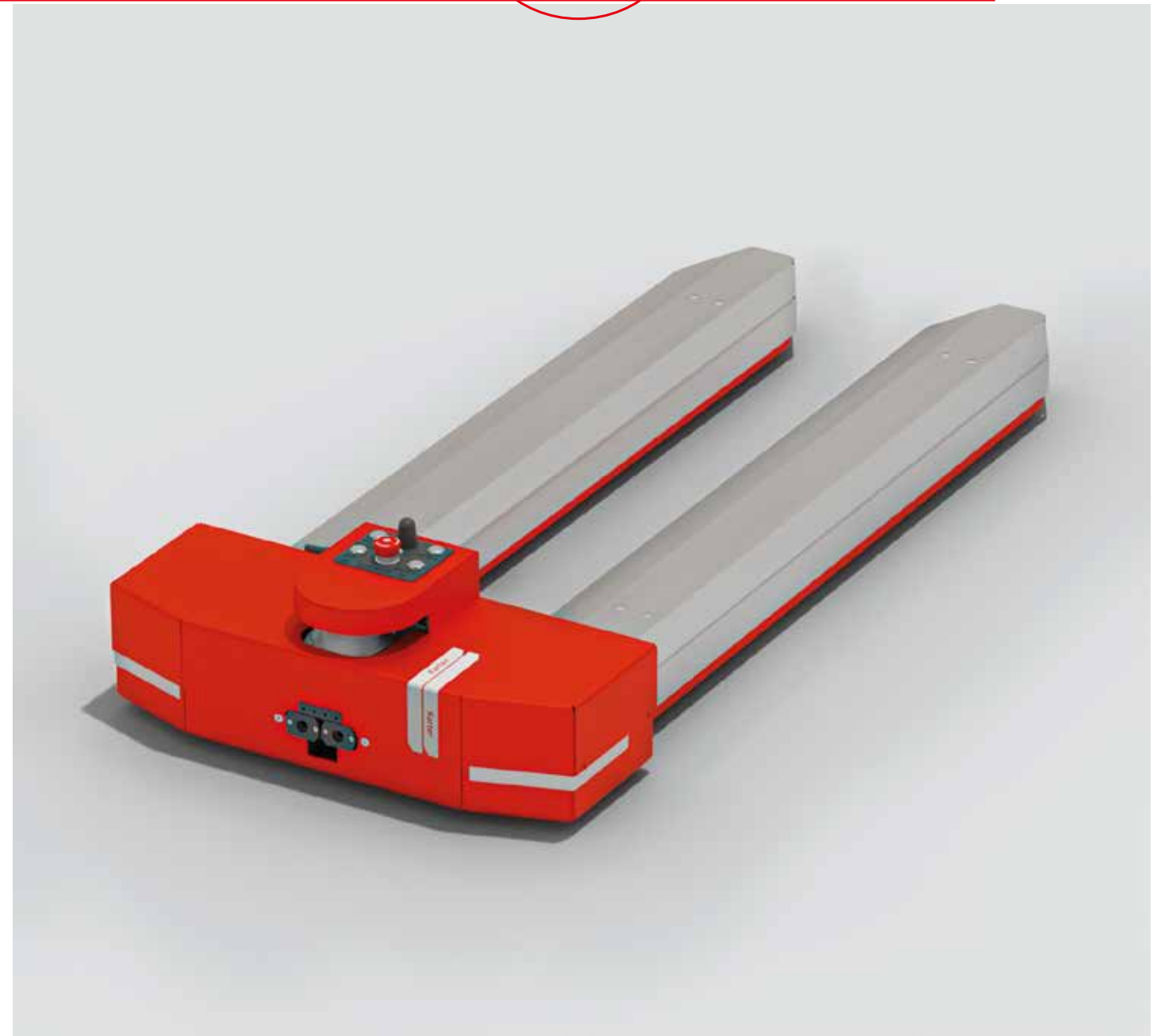


Karter

Ingenuity through simplicity

Karter



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Autonomous Mobile Robots

Karter Autonomous Mobile Robots (AMR) help you to optimise your internal logistics operations. They have the same applications as Automatic Guided Vehicles (AGV) but feature much more advanced navigation and automation systems. These robots navigate by mapping and recognising existing features in your building, so there is no need for lines or bar codes on the floor, or reflectors on the walls.

Karter models

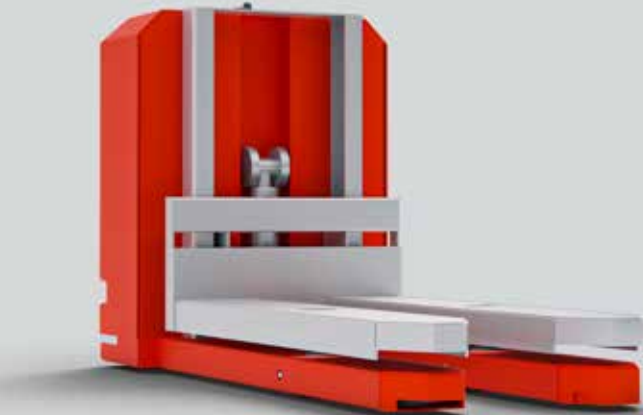
Karter Kompakt

Moves pallets weighing up to 1500 kg around your plant, efficiently and reliably



Karter Lyft

Lifts your pallets up by 500 mm to bring them to a convenient working height



Karter Mono

Handles a wide range of loads, such as roller cages, boxes, tanks, etc



Karters can be deployed flexibly and operate ad hoc or on a fixed schedule. We offer a range of models for pallets, crates, roll cages, tanks and other load carriers. We can also build a unique Karter, tailored to your operations.

Technology

The LIDAR laser scanners of our Karters constantly scan their environment. This enables them to find their way around your plant using natural feature navigation, avoid obstacles and stop safely if there is an object or person in their way. Karters navigate autonomously, the central control software only has to specify the start and end points of each trip, over WiFi.

Setting up Karters is straightforward: you drive a unit around your building under manual control so it can scan the building and create a map. The map is then cleaned up and uploaded to the Karters. We can provide on-site support for the system set-up.

Company

Karter is an innovative, young company built on decades of experience. We develop our AMRs to make you more productive. Our corporate culture is based on flexibility and a positive attitude. We want to offer our customers high quality products supported by excellent service, now and in the future. Karter is a subsidiary of Weighpack, which has been building integrated, customised packing lines for fasteners for over four decades.

We build the Karters in our own factory in The Hague, the Netherlands. This gives us full control over the quality of our products and enables us to provide custom solutions efficiently.

Specifications

General – All Karter models

- Safety: safety laser scanner and safety software
- Navigation: ANT® Autonomous Navigation Technology – natural feature navigation, based on mapping the working environment
- Position accuracy: ± 1 cm
- Speed: 2 km/h (standard), 4 km/h (option)
- Turning radius: 0 m (turns around its axis)
- CE-marked
- Operation down to -25°C

Power – All Karter models

- Battery: LiFePO₄, 24 V, 50 Ah, on-board Battery Management System (BMS)
- Charging time: 10 minutes for 8 hours typical operation
- Docking: automatic, controlled by the BMS
- Larger battery packs: option on some Karter models

Karter Kompakt

Optimised for transporting pallets

- Weight: 120 kg
- Maximum load: 1500 kg
- Lifting stroke: 30 mm (option: 35 or 40 mm)
- Option: external parts in stainless steel

Karter Lyft

Transports and lifts pallets

- Weight: 250 kg
- Maximum load: 1000 kg
- Lifting stroke: 500 mm
- Option: external parts in stainless steel

Karter Mono

Handles a wide range of loads: roller cages, boxes, etc.

- Weight: 200 kg
- Maximum load: 1500 kg
- Option: external parts in stainless steel

Could a Karter make your internal logistics more efficient?

Discuss your application with one of our product specialists and find out more.

Key reasons for deploying Karter AMRs:

- Improved safety
- Lower operating costs
- High availability
- Consistent performance
- No changes to your building needed
- Proven BlueBotics software
- Integration with other systems

Markets

- Logistics & warehousing
- Food & pharmaceuticals
- Agricultural and horticultural products
- Fasteners & small components
- Hardware, construction products & industrial components

ANT® server for communication and integration

The ANT® server handles mission and fleet management and traffic control. It links the Karters, their web-based operator interface, external systems (ERP and warehouse management software), and external devices (automatic doors, bar code scanners, etc.). ANT® server is developed by our partner BlueBotics, building on 20 years of experience.

