



GEBHARDT KARIS®

Connecting Processes Flexibly



SECURELY CONNECTED

Automating logistical processes continues to be a competitive factor for you and your intralogistics solutions. Automated guided vehicles (AGVs), combined with automated warehouse solutions and stationary conveyor technology, increase your efficiency and offer a simple and resource-efficient entry into the digital transformation.

The GEBHARDT KARIS® optimally complements your stationary conveyor systems' warehouse and production spaces, breaks up rigid logistics chains, and provides flexibility to your material flow, laying the foundation for modern and efficient processes in uncertain times of Industry 4.0, pandemics, and raw material shortages. The KARIS® creates a flexible and sustainable solution that adapts easily to changing environmental conditions.



Type 1

- Transport of small load carriers, containers, trays and cartons
- Vehicle dimensions: 575 x 700 x 300 mm (W x L x M)
- Nominal load dimensions: 400 x 600 mm (W x L)
- Load capacity: max. 150 kg depending on the LHD
- Standard lifts: 100, 150, 250 mm
- Active and passive LHD for best interlinking of material flows



Type 2

- Transport of small load carriers, containers, trays and cartons
- Vehicle dimensions: 700 x 1100 x 300 mm (W x L x M)
- Nominal load dimensions: 600 x 800 mm (W x L)
- Weight on request and depending on LHD
- Standard lifts: 150, 200, 250 mm
- Active and passive LHD for best interlinking of material flows



MODULAR THINKING – MODULAR CONSTRUCTION

The KARIS® has a modular structure that perfectly adapts to internal material flow requirements. It is used wherever different logistics tasks need to be connected flexibly and efficiently, from goods receipt to warehouse and production to goods issue. The system covers the entire range from simple point-to-point transports to complex and interlinked transports. Its three designs are suitable for the flexible transport of containers, cartons, and other load carriers.

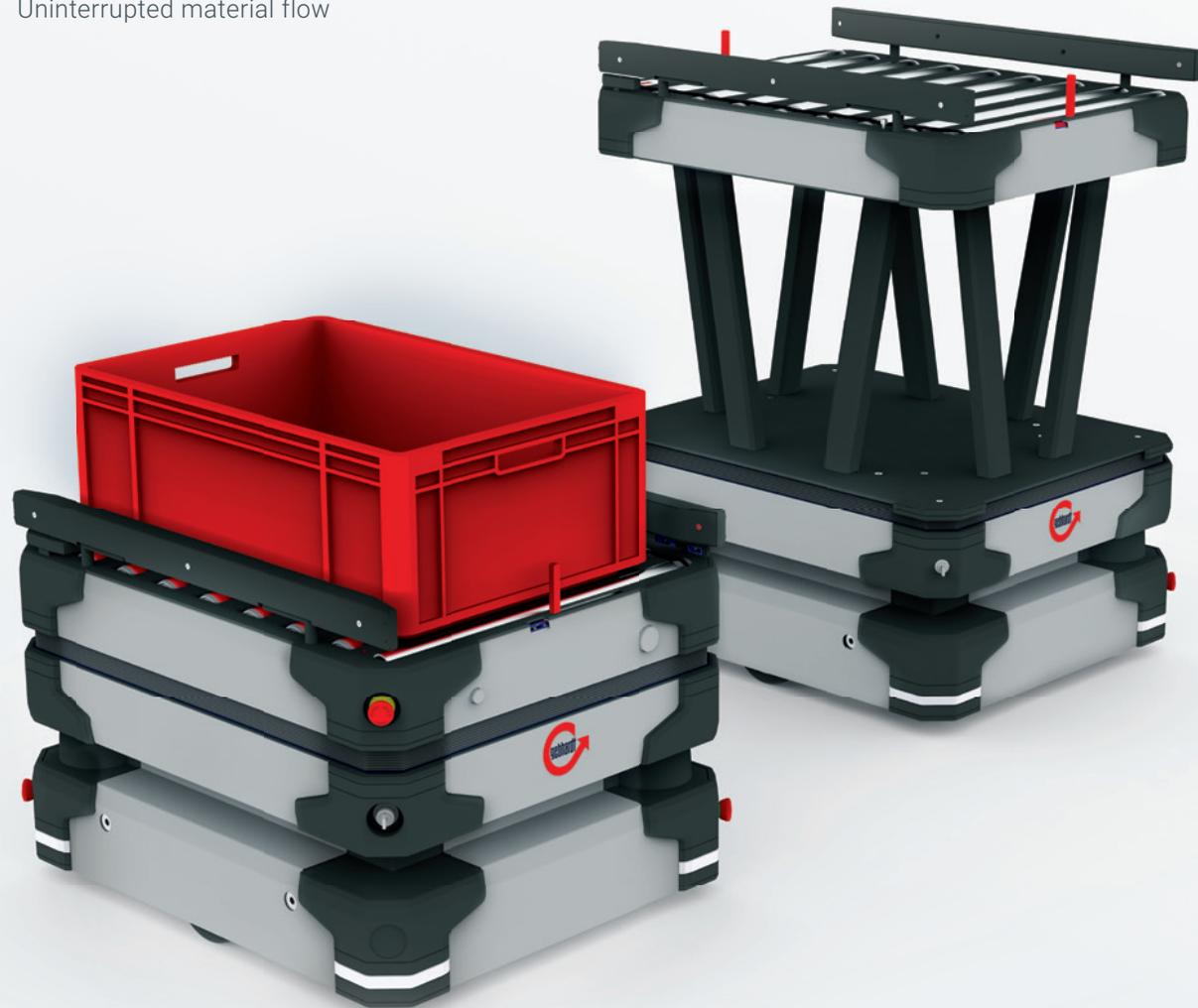
Type 3

- Transport of pallets, mesh boxes, etc.
- Vehicle dimensions: 900 x 1,300 x 300 mm (W x L)
- Nominal load dimensions: 800 x 1,200 mm (W x L)
- Load capacity: max. 1,500 kg depending on the LHD
- Standard lifts: 150, 200, 250 mm
- Active and passive LHD for best interlinking of material flows



ADVANTAGES FOR YOUR COMPETITIVE EDGE

- Easy commissioning with contour-based navigation and teach-in
- Flexible assembly planning
- 360° visual field
- Scalability
- Low floor space commitment
- High flexibility (change of product mix)
- Best interlinking of stationary and flexible components
- High availability
- Uninterrupted material flow



Reliable navigation by means of laser scanner with a visual field of

360°

Maximum speed up to

1.8 m/s

Type-dependent lifting and carrying of up to

1,500 kg

Positioning accuracy up to

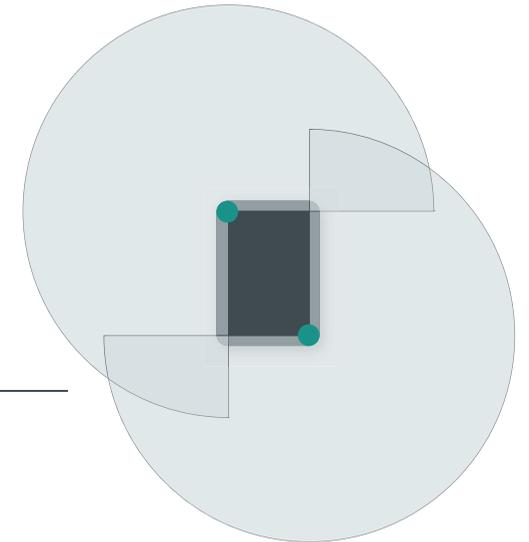
10 mm



INTELLIGENCE IN MOTION

The KARIS® is equipped with highly integrated safety features: state-of-the-art sensor technology prevents collisions with people or obstacles and offers maximum safety. Machine movements are constantly being monitored.

Two diagonally offset sensors provide a 360° all-round view

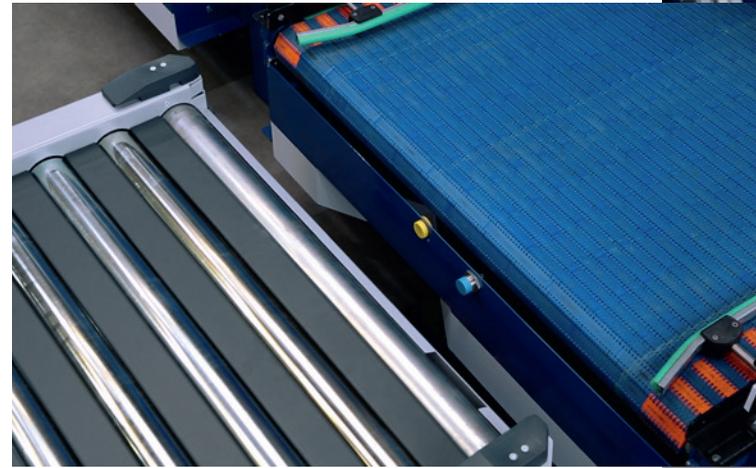


The vehicles stop independently and reliably in front of obstacles. The safety design allows adjustments to new load carriers and environmental conditions. The 360° protective field with laser scanners permanently scans the surroundings without blind spots. This feature enables operation in both directions at the same speed. The AGV communicates with the host computer via WLAN and reaches the specified positions with a +/- 10 mm accuracy through the integrated optical navigation.

DESIGNED FOR PRACTICAL USE

Different circumstances require different solutions, whether for production or logistics, area, or station supply. Thanks to its modularity, the KARIS® can be individually configured and flexibly used. The KARIS® functionality includes autonomous, demand-controlled task and order distribution as well as decentrally controlled, infrastructure-independent material supply within logistics or at the assembly line – even over long distances.

On its own or combined with other solutions, the KARIS® merges seamlessly into the company, production, and inventory management control systems. In addition, the diverse transport applications ensure a tighter, more efficient, and more reliable sequencing of the individual areas; for example, in warehouse-to-person or end-of-line solutions.

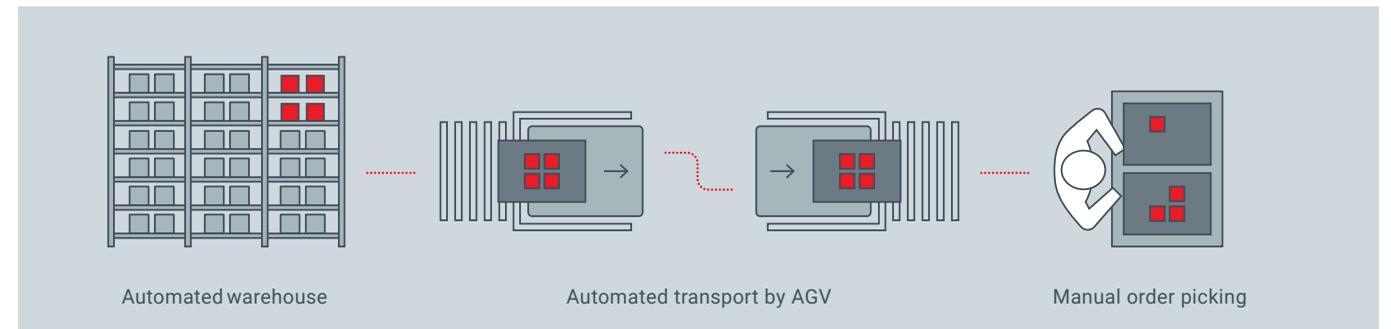


EXAMPLE | WAREHOUSE-TO-PERSON

Automatic storage systems significantly increase the efficiency of storage tasks. It is not an isolated system; therefore, you must also consider supply and disposal, an activity which people often perform. Using the KARIS® automates these transports, and people can concentrate on value-adding activities. Production and logistics grow even closer together.

END-OF-LINE SOLUTIONS – GEBHARDT AND MOSCA

The cooperation between GEBHARDT and MOSCA GmbH demonstrates that mobile, autonomous systems can be used to reexamine the optimal linking of end-of-line solutions. Together they developed a solution where the KARIS® system ensures the best possible connection of MOSCA's stationary strapping machines to the material flow. The result is an uninterrupted and seamless material flow across fixed and flexible intralogistics components.



NEXT GENERATION INTRALOGISTICS

Already in its third generation, the name GEBHARDT is closely associated with innovative intralogistics solutions. The company has always developed, manufactured and installed individual products as well as complete turnkey solutions. The portfolio includes storage systems, conveyor systems, sorting and order picking systems as well as goods lifts, automated guided vehicles and software applications.

The complete range of solutions, intelligent software and life-cycle services enables the most reliable and efficient automation technology for retail & e-commerce, food & beverages, automotive, healthcare, contract logistics, fashion & consumer goods and industry.



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