

## AGV Automated Guided Vehicle



- Fast and safe transportation
- Transport and pick up of different loads
- Ability to integrate into existing work processes
- Adaptation and redesign to changing environments

Genkinger-bAKA AGVs are **A**utomated **G**uided **V**ehicles for in-plant material transport. Customized vehicles can be automated. Genkinger-bAKA driverless transport systems offer a solution with maximum flexibility and safety for people and machines.

### Consultation

The basis for our consultation are the detailed customer requirements. Then a decision is taken whether the use of AGVs is a feasible solution, technically and economically. We show the customer the first proposals for his individual production logistics requirements.

### Solution

After an analysis of the detailed conditions on site, we work out a draft for the technical implementation and a basic layout of the handling equipment as well as the possible navigation.

### Simulation

A dynamic simulation can be a useful addition to the use of AGVs. With the provided customer information the concept and the number of vehicles can be verified.

### Specification

The conceptual design of the vehicles and the description of the application are described in detail in the specification. This serves as the basis for implementation process.

### Project

Once the order has been placed, a specification is drawn up. The detailed execution is defined and agreed in close dialogue with the customer.

### Integration and Service

The operation of the vehicles is supported by our service and can be expanded by implementing to a remote maintenance system. During operation, possible adjustments, connections or extensions can be developed and introduced together with the customer.

## Automated Guided Vehicle

Automated guided vehicles (AGV) contribute significantly to the optimization of intralogistic processes. They ensure that the right part is at the right place at the right time. Using transport systems will sustainably increase your productivity. Adapted to the special requirements of the production logistic industry customized autonomous transport vehicles with a lifetime of several decades will be designed. For almost 100 years we provide material handling equipment for a large variety of applications. The proven Genkinger-bAKA transport equipment is used as a robust, reliable, flexible and resistant transport system, connecting barrier-free storage and work areas.

The AGVs can be integrated into any individual process organization: from simple transport applications, over the goods-to-person principle, right to full automation within an integrated overall system. The control and optimization of all transport orders are processed by a fleet software, which receives orders from any ERP system.

The navigation of the automated guided vehicles is done visually and thus guarantees 100% reliability and safety using recent technologies. These are Laser-guided- (LGV), Magnetic-tape-guided- and Camera-guided navigation. Moreover, the autonomous vehicles are equipped with lithium-ion battery technology, ensuring high performance 24/7 operation.

