

WEASEL®

Automated Guided Vehicle for Flexible,
Internal Transport of Goods.

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WEASEL[®]

AUTOMATED GUIDED VEHICLE

SSI SCHAEFER developed the WEASEL automated guided vehicle with a passion for innovation. The result is a flexible and versatile transport system that follows an optical guiding line, meaning it does not require costly installation.

Lift system for bridging different levels

Intelligent networking of production, logistics, replenishment, quality control, etc.

Seamless integration with (existing) conveying systems using automated transfer units

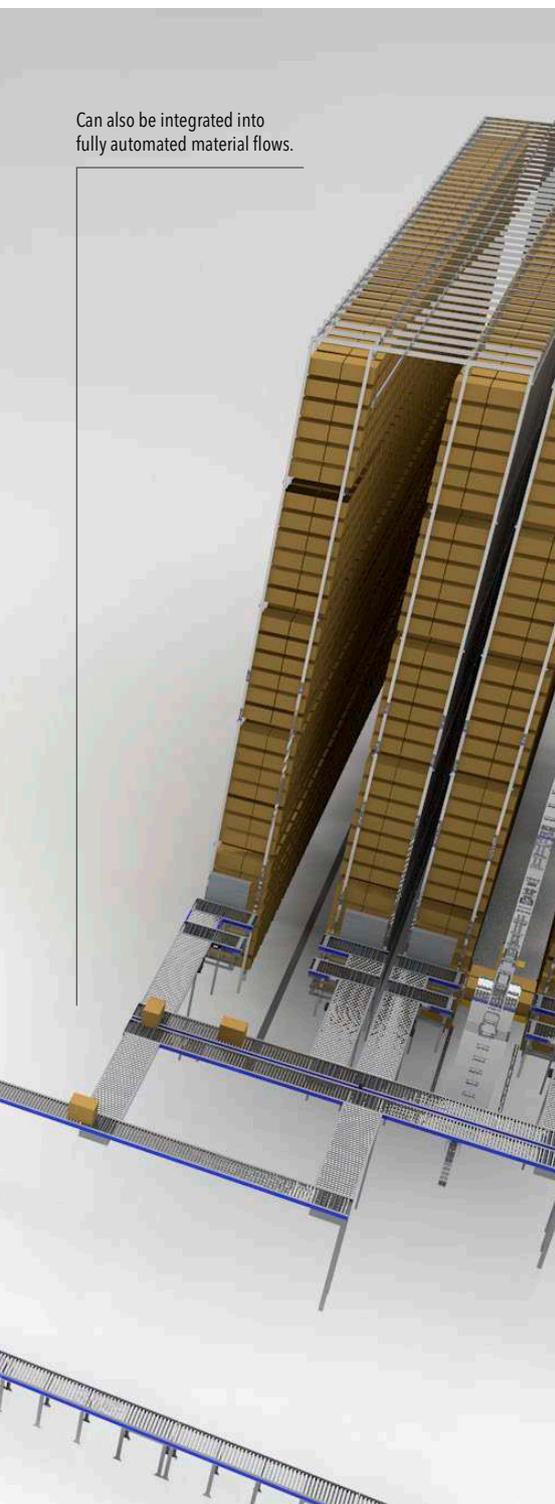
Energy supply from battery packs that can either be replaced manually or charged completely automatically

The vehicle can be sent to any waypoint without restrictions

Can be connected to superordinate ERP systems or WMS

The WEASEL masters almost all transport tasks up to 35 kg, which ensures optimum material flow. Your goods will reach their destination safely and barrier-free, all with low purchasing and operating costs as well as a rapid return on invest (ROI).

Can also be integrated into fully automated material flows.



AT A GLANCE: WEASEL

- Gentle and safe transport of bins, cartons, and hanging goods
- Barrier-free and low space requirement
- Different designs for optimal ergonomics
- Easy to integrate into existing systems and infrastructures
- Scalable by connecting multiple forklift vehicles as a fleet solution
- Flexible in terms of system adaptation and expansion
- Simple sequencing of conveyed materials
- No expensive sensors and complex control systems
- Low investment and operating costs



This innovative fleet solution has been awarded prizes including the "International Forklift of the Year" (IFOY) award in the Intralogistics Solution category.

UNLIMITED POSSIBILITIES

Flexible enough to carry out various production and logistics transport tasks.

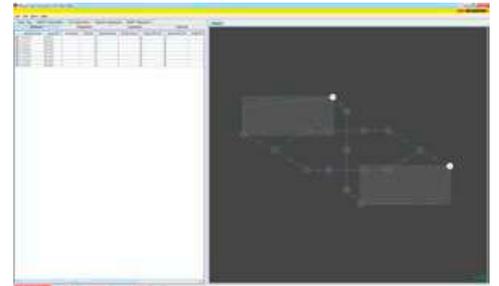
The vehicles can be integrated into the existing IT infrastructure.

Decoupling of the work and transport processes with manual loading stations

Battery charging cabinet

Jobs for the vehicles are generated manually using a wireless pushbutton.

The fleet controller allocates the jobs to the relevant vehicles



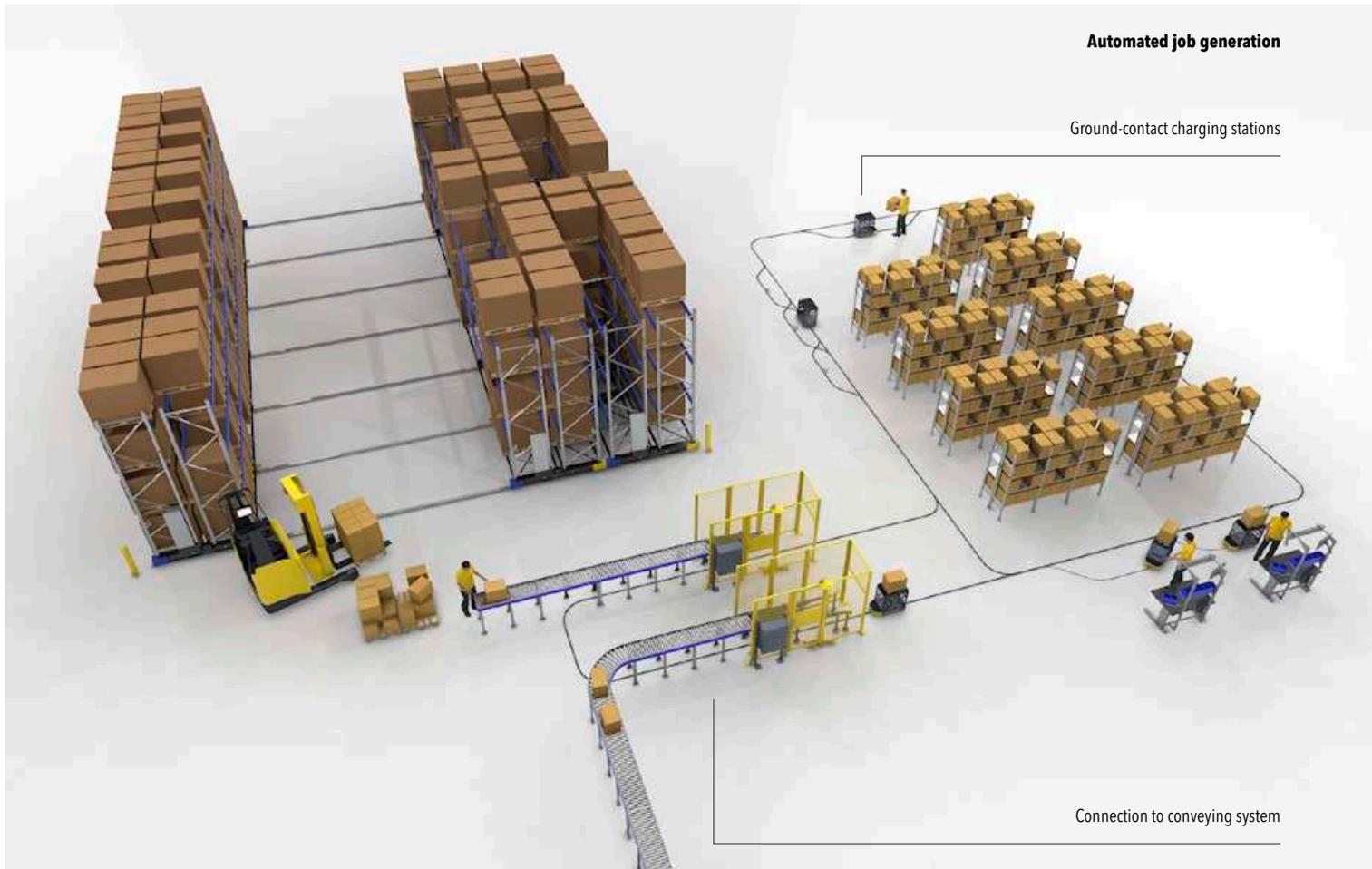
Entry-level solution for automated goods transport in production and operations

The WEASEL automated guided vehicle can provide immense added value for your company, even for simple transport tasks. It provides a new way of optimizing travel times and transport routes even for small load carriers.

AT A GLANCE:

- Efficient internal transport
- Several destinations can be specified
- Employee walking distances are reduced; practical redistribution of resources
- Extremely simple control
- Flexible adaptation to growing needs

Manual loading, unloading and connection to both new and existing conveying systems.



Can be intelligently combined

The WEASEL can be connected to existing conveying systems using automated transfer units. This allows the system to bridge gaps, for example between picking stations and existing conveying systems. This modular approach protects existing investments and offers the option of a cost-optimized goods-to-person principle.

AT A GLANCE:

- Controlled with or without material flow system
- Connection to both new and existing conveying systems
- Integration of existing solutions
- Automated charging management

Lift system for connecting levels



Job generation via a material flow or ERP system

Connection to material flow systems and linking of multiple operating levels

Even highly complex projects can be fulfilled with the WEASEL. The system can be optimally integrated into different levels of the supply chain and makes a crucial contribution to the added value of intralogistics.

AT A GLANCE:

- Connection to existing material flow systems
- Use of the entire fleet of vehicles on different levels
- Allows sequencing of goods
- Automated charging management

THE WEASEL SUPPORTS MATERIAL FLOW FLEXIBLY ACCORDING TO THE INDIVIDUAL NEEDS OF THE CUSTOMER

Hermes Fulfilment GmbH

With the WEASEL, Hermes Fulfilment GmbH is preparing its site for new and future challenges. This will create flexible and barrier-free links between different areas.

 **Hermes** To drive forward the expansion of capacity, Hermes Fulfilment GmbH decided to optimize the distribution center at its Haldensleben site. It specializes in the logistical processing of low-volume items for different clients. The company implements full-service e-commerce solutions around the globe. Its range of services includes the development of online shops, credit management, financial services and customer care as well as warehousing, distribution, and returns management. To facilitate the flexible linking of different areas, Hermes Fulfilment is implementing a cost-effective transport solution with the WEASEL system at its Haldensleben distribution center.



FLEXIBLE LINKING OF PRODUCTION AND DISTRIBUTION



Bachmann Forming AG

For the automation of its internal transport, Bachmann Forming AG relies on an award-winning solution with WEASEL automated guided vehicles. The project was completed within a mere five weeks and has already paid for itself after only a few months.



Bachmann Forming AG is a very successful specialist in the development of customized plastic packaging. The company has used the WEASEL for internal transport between work stations in production and the existing conveying system to the distribution area.

The switch from manual to automated internal transport with the WEASEL saves the company roughly 7,000 hours per year, amounting to an ROI for the system of well under a year. Manual transfer stations were installed for the production machines. The employees at the work stations place the packed product cartons onto the transfer station in front of them and initiate the pickup order for the WEASEL via a button. The vehicle drives to the work station, takes the carton and transports it to the transfer station on the existing conveying system. The WEASEL then automatically hands the cartons over to the conveying system at the transfer unit.



"A flexible and modular transport solution that we were able to implement quickly. We are delighted."

Henrik Bugiel
Managing Director
NextLevel Logistik GmbH

NextLevel Logistik®

SCALABILITY AS AN IMPORTANT DECIDING FACTOR

NextLevel Logistik GmbH

SSI SCHAEFER implemented another fleet of WEASEL automated guided vehicles for the fashion logistics service provider NextLevel Logistik® GmbH. They are using the machines in the picking environment of a hanging goods warehouse.

The repeated awarding of the contract emphasizes the high degree of flexibility and cost effectiveness, which makes the concept behind the barrier-free automation solution stand out. NextLevel Logistik® GmbH commissioned a WEASEL fleet from SSI SCHAEFER eighteen months ago at its company headquarters in Eltmann, near Schweinfurt, Germany.

In Eltmann, the WEASELS have already proved their worth. "The concept has impressed in all tasks carried out with its reliability, efficiency, and safety, which is why we have extended their application," says NextLevel Managing Director Henrik Bugiel. "The varied options for a flexible design of the transport vehicles and unhindered scalability of the solution were important deciding factors for the system."

In a separate hall, the new WEASEL fleet aids the picking of hanging goods. For this, the structures were fitted with special fixtures for transporting hanging goods.

FACTS & FIGURES

A small vehicle with great strengths

Despite its small dimensions, the WEASEL transports goods and loading aids of various sizes in all temperature ranges between 2 °C and 50 °C. Its compact design allows the WEASEL

to be used in inaccessible areas. The use of this autonomous transport system not only speeds up cycle times, but also improves the cost effectiveness of warehouse processes.

Key system figures

Transport weight	up to 35 kg
Vehicle dimensions	up to 810 mm x 420 mm x 180 mm (l x w x h) excl. structure
Acceleration/braking	up to 2 m/s ²
Turning radius	min. 600 mm
Traveling speed	up to 1 m/s
Data transfer between the fleet controller and WEASEL occurs via WLAN (5 Ghz).	

Environment

Incline climbing ability	loaded: 10 % empty: 20 %
Ambient temperature range	2 - 50 °C, non-condensing

Energy supply

Manual via charging cabinet or automatic via ground-contact charging stations

Power supply	battery 24 V
Charging time	8 hours
Operating time	up to 16 hours

Lift

Lift speed	up to 3 m/s
Number of entries/exits per lift	up to 10
Height of the lift	up to 13.4 m

The structures vary in height and facilitate ergonomic loading and unloading

Hanging goods structure

upper edge 1,250 mm



High structure

upper edge 750 mm



Low structure

upper edge 250 mm



Goods dimensions (l x w x h)

up to 600 x 400 x 1,250 mm

up to 600 x 400 x 510 mm

up to 600 x 400 x 510 mm



SIX REASONS FOR CHOOSING SSI SCHAEFER

- **Security:**

As a financially independent family business we are committed to long-term solutions. You can trust that we will be there for you tomorrow and in the years to come.

- **Efficiency:**

Our solutions are scalable and grow with your business. An SSI SCHAEFER solution is a future-oriented investment.

- **Quality:**

As a specialist in automation, we provide a single-source solution. As an original equipment manufacturer we guarantee quality and the right solutions for your needs.

- **Reliability:**

Thanks to our worldwide Customer Service & Support network we ensure a smooth operation of your system.

- **Know-how:**

Our solutions are always up-to-date with the latest technological standards and are easily integrated into an existing (IT) landscape.

- **Internationality:**

As a globally acting company we have local offices worldwide and our team of experts speaks your language.

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