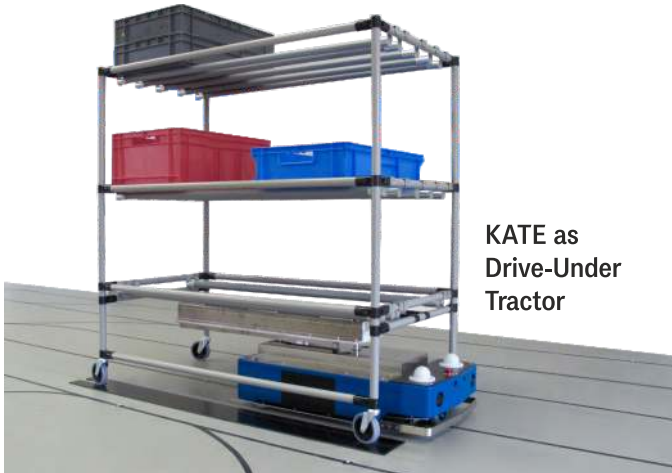


## Application Examples



KATE as Drive-Under Tractor

- KATE vehicles can be used to replace continuous conveyors.
- Different superstructures are possible and additional sensors can be integrated (e.g. ultrasound).
- In combination with the control software **TransportControl** and an optional PLC integrated into the vehicle customer specific superstructures can be controlled at specific positions, e.g.



KATE with Lifting Table

- Lifting action
- Transport action (drag, push, etc.)
- Light or acoustic signals
- Stopping the vehicle remotely
- Freely programmable PLC actuation

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## Technical Data

Load capacity up to 50 kg, as a tractor up to 100 kg

Transport base area e.g. small load carrier 400 x 600 mm

Driving speed up to 1 m/s

Climbing performance up to 20 %

Energy storage Battery / Supercap  
Charging conductive / inductive

Communication via WLAN

Track guidance optically along lines on the ground,  
reference points via Transponders

Optional navigation using environmental features

Personal protection rated according to  
DIN EN ISO 13849-1 Stufe PLd

Optional load transfer / lifting equipment

Load pick up: Platform, conveyor belt, cross conveyor, drawbar,  
lifting equipment, etc.

The centerpiece of the KATE vehicles is the drive-steering module that combines the optical track guidance, the transponder antenna, the WLAN communication, the obstacle detection and the power units in a compact center pivot plate. Vehicle manufacturers can order these modules separately.



You can find videos showing KATE at  
<http://www.goetting-agv.com/kate>

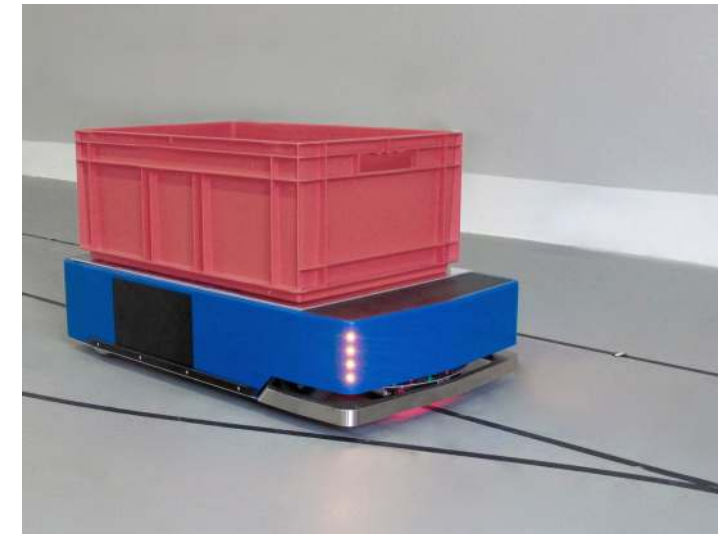
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Innovation in Guidance

Götting KG | Celler Str. 5 | D-31275 Lehrte  
Tel.: +49 (0) 5136 / 8096 -0 | Fax: -80  
info@goetting-agv.com | [www.goetting-agv.com](http://www.goetting-agv.com)

# KATE

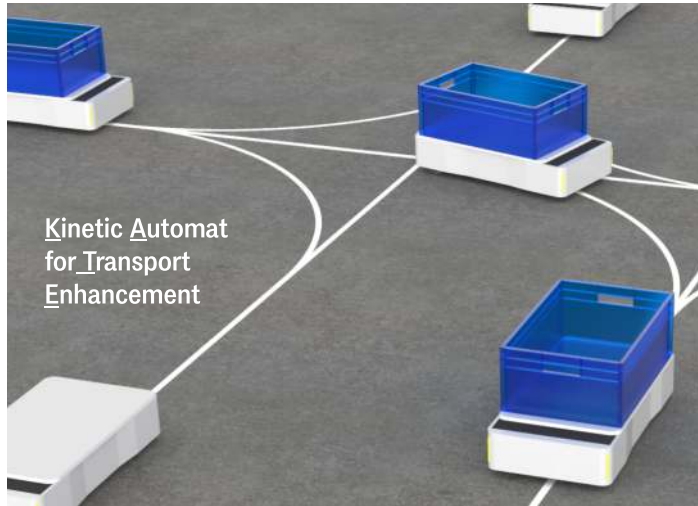
Kinetic Automat for Transport Enhancement



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# KATE



Kinetic Automat for Transport Enhancement

KATE vehicles transport loads up to about 50 kg (e.g. small load carriers or boxes) flexibly and automatically. Due to the direct connection to a powerful control software they can be used individually or in groups.

KATE provides a steady and reliable flow of goods within a facility designed according to customer requirements.

- Optical guidance along routes made from affixed or painted tracks.
- Detection of Transponder tags on the ground that trigger actions (e.g. stop, start, turn off).
- Energy supply via batteries or Supercaps.
- Conductive or inductive charging.
- Certified personal protection.

Different configurations according to customer wishes are easy to implement. Thus each customer specific vehicle can be constructed to best fit its application. This includes the obstacle detection, the casing (size) and the loading equipment.

# TransportControl Software

ID	Response	Update	Mileage [m]	Job time	Location	Destination
TCVSIM01	103 ms	NONE	0.00	00:00:00	NONE	NONE
TCVSIM02	102 ms	NONE	0.00	00:00:00	Werk 2 RW	NONE
TCVSIM03	201 ms	NONE	0.00	00:00:00	Werk 2 RW	NONE
TCVSIM05	201 ms	NONE	0.00	00:00:00	PDC VW	NONE
TCVSIM04	200 ms	NONE	0.00	00:00:00	PDC VW	NONE

Creation time	Priority	Target key	Next destination	Origin
28.01.18 22:36:04	10	TCVSIM01	Werk 2 RW	Stephan
28.01.18 23:01:44	10	TCVSIM01	Werk 2 RW	Stephan
28.01.18 23:01:48	10	TCVSIM01	Werk 1 RW	Stephan
28.01.18 23:01:52	10	TCVSIM01	PDC VW	Stephan
28.01.18 23:01:56	10	TCVSIM01	PDC RW	Stephan

For automation projects a comfortable control software is available. For the operation of facilities with KATE vehicles it is mandatory. **TransportControl** coordinates and visualizes KATE vehicles or, if needed, other driverless vehicles.

**TransportControl** allows users to operate the software via a standard web browser. Within the software they can control the vehicle operations. WiFi (WLAN) is used to communicate with the vehicles.

- Installation of the control software on a (virtual) server provided by the customer / facility operator.
- Access from any PC or mobile device within the company network (users / permissions).
- The user interface works in modern browsers without additional plug-ins – additional software installations are not necessary.
- Telegram interface for the data exchange with superordinate Warehouse Management and Manufacturing Execution Systems as well as communication with gate controls and fire alarm systems.

You can see a video of **TransportControl** at <http://www.goetting-agv.com/transportcontrol>

