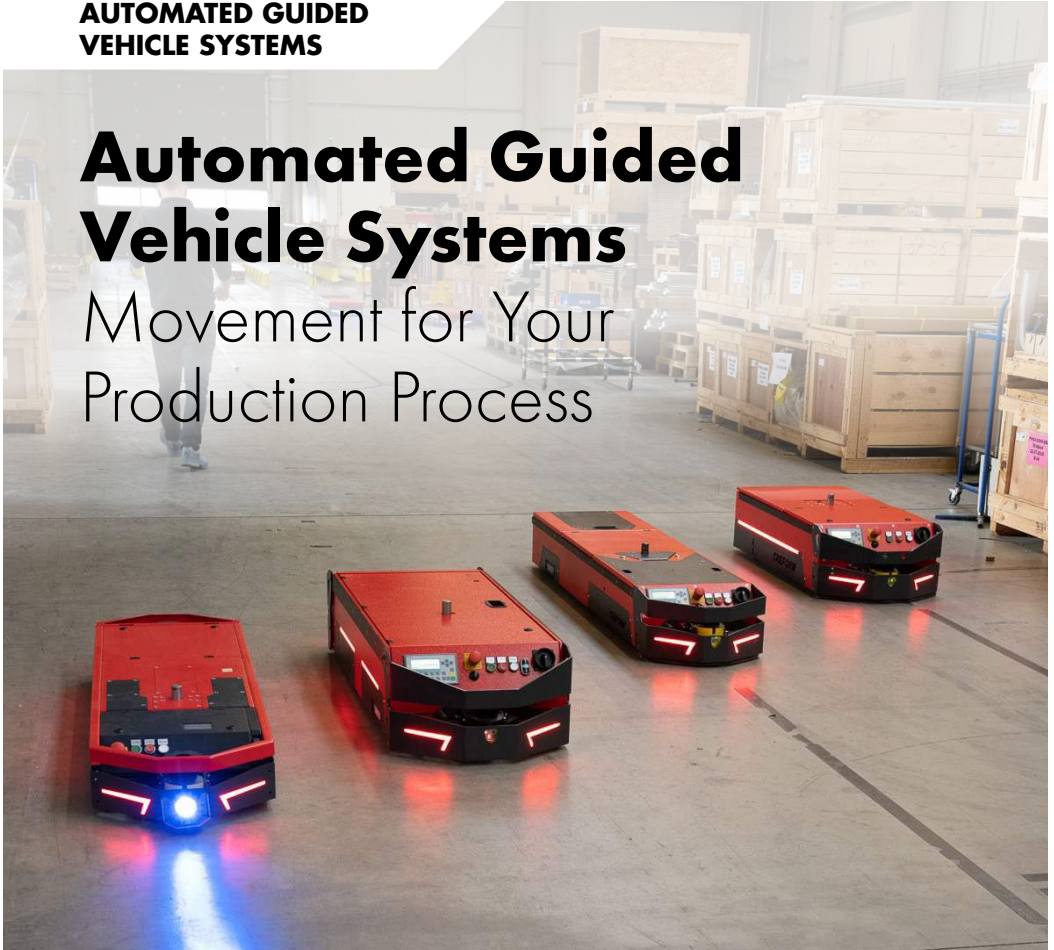


**AUTOMATED GUIDED
VEHICLE SYSTEMS**

Automated Guided Vehicle Systems

Movement for Your
Production Process



INFORMATION

Automated Guided Vehicles (AGVs) from CREFORM bring movement to your production process. More than 35 years of experience and more than 20,000 AGVs/-units sold group-wide enable customer-specific complete solutions.

Development, design and production - Made in Germany.

The benefits of CREFORM AGVs:

- **Magnetic tape or free navigation**
- **Lead gel or Li-Ion battery technology**
- **Siemens components & Sick Sensor Technology**
- **Full metal frame & individual coloring**
- **Acceptance TÜV Saar / CE declaration**

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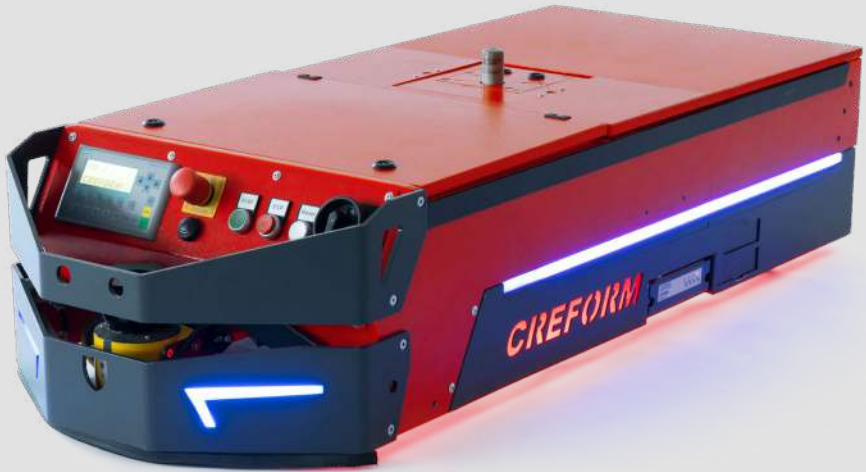


- Minimum overall height
- Ideal as underride solution

VM1 Superflat

Dimensions (WxLxH)	480 x 1574 x 198mm	480 x 1574 x 198mm
Own weight	167kg	117kg
Speed	3m-33m/min	4m-50m/min
Movement load	800kg	500kg
Tractive force	363N	255N
Traverse direction	Forward - and backward*1	Forward - and backward*1

*1 depending on equipment



- Underride / towing solution
- Variable superstructures

VM2 Standard

Dimensions (WxLxH)	553 x 1008 x 315mm	553 x 1301 x 315mm			450 x 2000 x 249mm
Own weight	150kg	160kg	150kg	150kg	183kg
Speed	4m-50m/min	2-25 m/min	3-33 m/min	4-50 m/min	4m-50m/min
Movement load	250kg	1100kg	800kg	500kg	500kg
Tractive force	255N	540N	360N	260N	260N
Traverse direction	Forward - and backward* ¹	Forward - and backward* ¹			Forward - and backward* ¹

*1 depending on equipment



- High maneuverability
- High traction

VM3 Bidirection

Dimensions (WxLxH)	553 x 1800 x 315 mm	553 x 1800 x 315 mm
Own weight	330kg	265kg
Speed	3m-33m/min	4m-50m/min
Movement load	1800kg	1000kg
Tractive force	870N	520N
Traverse direction	Forward, backward and sideways	Forward, backward and sideways



High Positioning Accuracy

The Automated Guided Vehicles were developed for the company HK-CON GmbH as a customer order. The 238kg heavy vehicles maneuver tool carriers through a robotized production line.

At a speed of 3 to 25m/min the maximum payload is 647kg. A high positioning accuracy is guaranteed due to external positioning devices. If liquids leak out due to the process, they are collected thanks to the integrated drip tray and can be disposed of in an environmentally friendly manner.

CUSTOMER-SPECIFIC SOLUTIONS**The Optimal Solution for Any Requirement**

CREFORM designs simple, flexible and individual solutions for every application. This special solution was designed and subsequently manufactured for a German mechanical engineering company. The lifting device transports mounting plates up to 400kg at a speed of 3 to 35m/min. Thanks to the modified drive units as well as the three Sick-Scanners, a high freedom of movement and safety is guaranteed. The vehicles are equipped with an intelligent battery management system, which automatically drives to a charging station during idle times or low battery voltage.

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