



# SMART COLLECTOR

The world's first  
intelligent current collector  
for electric monorail  
and stacker cranes

**PREDICTIVE  
MAINTENANCE**  
powered by VAHLE

With the Smart Collector, we have developed the world's first intelligent current collector. Its sensors record the movement data of the current collector and detect anomalies in the conductor system at such an early stage that unplanned downtimes can be avoided.

With our smart and innovative product and service extension, we optimize your processes and sustainably reduce your costs.

**VAHLE** – We make your vision our solution.

## THE SYSTEM IN DETAIL



### Collector with sensors

3D sensors adapted to the current collector arms record the movement data of the current collector during operation. The function of the pantograph is not affected in any way. The data is transmitted to the main unit for analysis.



### Main Unit

Measurement data is processed and evaluated in real time directly on the main unit. The flexible system has variable interfaces and is compatible with various positioning and data transmission systems.



### Router

If the Main Unit detects reproducible anomalies, a message is transmitted to our certified data center via the connected router. A permanent transmission does not take place.



### Interface

The analyzed measurement data is visualized by means of software and enables plant operators to perform ongoing condition monitoring as well as various service options, which can be accessed digitally using any terminal device.

## OUR PROMISE

With the learning system, especially for electric monorail systems and storage and retrieval machines, we underline our quality promise. The Smart Collector acts as an efficiency boost for your processes:

- Increase in system availability
- Increased productivity
- Sustainable cost reduction
- Reduction of response times
- Minimization of downtimes

## YOUR VISION – OUR SOLUTION

Let us convince you of our Smart Collector and contact us: [info@vahle.de](mailto:info@vahle.de)