

AUTONOMOUS MOBILE ROBOT

SERIES MILES3510

▶ PRODUCT ADVANTAGES



- ▶ 1.5 m/s driving speed
- ▶ Long-lasting battery with 48 V on-board voltage
- ▶ User-friendly user interface
- ▶ Complete integration into the entire production process
- ▶ Planning the hall and the AMR fleet using simulation
- ▶ Comprehensive service and commissioning

▶ SERIES CHARACTERISTICS



IP54



Inductive charging



VDA 5050-compliant and natural navigation



Up to 3,500 kg load capacity



Integration into the overall system



Safety based on SICK technology

▶ CHALLENGE AND SOLUTION

- ▶ AMRs support up to 80% of the in-house transport processes for semi-finished and finished goods.
- ▶ Material reaches the right place at the right time, employees receive optimal onsite support.
- ▶ 24/7 application options for AMRs, very high availability of AMRs.
- ▶ Only the stock actually required for work is on the shop floor. This results in an increase in the shop floor area by up to 20%.
- ▶ AMRs can be integrated into the existing factory layout without major structural adaptations.
- ▶ Fluctuations in demand and orders are compensated via the AMRs.
- ▶ Complex supply and disposal of Kanban cycles can be automated.

▶ APPLICATION EXAMPLES

- ▶ Pallets
- ▶ Transport boxes
- ▶ Chip containers / Off-cut containers

► TECHNICAL DATA - BASIC VEHICLE

Order no.	MILES3510-223157-A
Basic vehicle load capacity [kg]	3500
Length of basic vehicle [mm]	2375
Base vehicle width [mm]	1100
Base vehicle height [mm]	350
Max. speed [m/s]	1.5
Runtime [h]	8
Charging time from 0 to 100% [h]	2.0
Charging process	via induction
Chassis type	Differential drive
Driving direction	Cornering
Turning circle [m]	0
Number of drives [piece]	2
Safety scanner	2xSICK
Navigation	About laser
Navigation software	Navitec Navitrol
Communication	via WLAN
Voltage [V]	48
Weight [kg]	1100
Certifications	LABS / REACH / RoHS

► TECHNICAL DATA - STROKE

Order no.	MILES3510-215205-A
Lifting unit load capacity [kg]	3500
Stroke [mm]	80
Type of drive	electrical
Safety mechanism	Motor brake

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▶ SOFTWARE ADVANTAGES

- ▶ Collaborative system – people and machines operate in a single system without limitations.
- ▶ Interface for setting up different modules possible.
- ▶ Seamless integration into existing structures.
- ▶ Fast fleet expansion with additional vehicles when there is increased demand.
- ▶ Easy troubleshooting via remote support.
- ▶ Complete integration into the entire production and intralogistics process thanks to the MOSAIC control system - control and communication architecture from a single source.

▶ SOFTWARE FUNCTIONS

- ▶ Performance level d (vehicle only).
- ▶ Reliable navigation using LiDAR sensors.
- ▶ Protective field violations are detected by the SICK safety scanner, which stops the vehicle in a timely manner.
- ▶ Integration into ERP systems and machine interfaces.
- ▶ Additional AMRs can be integrated into the system later on.
- ▶ Interface for remote access.