AUTONOMOUS MOBILE ROBOT
SERIES MILES3520

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

▶ TECHNICAL DATA - BASIC VEHICLE

Order no.	MILES3520-238226-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	Pivot drive
Driving direction	omnidirectional
Turning circle [m]	0
Number of drives [piece]	4
Safety scanner	2xSICK
Navigation	About laser
Navigation software	Navitec Navitrol
Communication	via WLAN
Voltage [V]	48
Weight [kg]	750
Certifications	LABS / REACH / RoHS

▶ TECHNICAL DATA - STROKE

Order no.	MILES3520-215219-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.