# **AUTONOMOUS MOBILE ROBOT (AMR)**

# **MILES 1500**



- Transport load of up to 1,500 kg
- Runtime of up to 10 h
- ▷ 55 mm stroke to lift the loading carriers

## APPLICATION EXAMPLES

As an AMR with a lifting unit to transport Euro pallets, chip containers, etc.

- Pallets, chip containers / off-cut containers
- Transport boxes

## **FUNCTIONS AND DETAILS**



- 1 Lifting unit (55 mm)
- (2) Safety scanner PL d, SICK Technology, Human-machine safety
- (3) Batteries, 48 V on-board voltage, up to 10 h of runtime, inductive charging
- 4 Differential drive:
  - smallest space requirement, turning radius of 0 m
- 5 HMI and software: Navigation, fleet management, ERP interface

# ► TECHNICAL DATA

Order No.	Miles 1500
Base vehicle transport load [kg]	1500
Navigation	Via laser
Base vehicle length [mm]	1530
Base vehicle width [mm]	910
Base vehicle height [mm]	293
Speed max. [m/s]	1.5
Protection class	IP44 (IP54 upon request)
Vehicle weight [kg]	400
Runtime [h]	10
Charging time from 0 to 100% [h]	2
Gradient max. [%]	5
Chassis type	Differential drive
Turning radius [m]	0
Charging process	Via induction
Communication interface	VDA 5050

	Stroke setup
Order No.	Miles 1500
Dimensions with lifting unit retracted (LxWxH) [mm]	1530 x 910 x 408
Lifting unit transport load [kg]	1500
Transport object (examples)	Chip tubs, Euro pallets, commissioning carts
Stroke [mm]	55

### SOFTWARE ADVANTAGES

- Collaborative system people and machines operate in a single system without limitations
- Interface for setting up different modules possible
- Complete integration into the entire production process with control architecture from a single source
- Seamless integration into existing structures

- The use of different fleet management systems in one system is possible
- Reprogramming of the AMR travel paths possible at any time
- Fast fleet expansion with additional vehicles when there is increased demand
- Easy troubleshooting via remote support

#### SOFTWARE FUNCTIONS

- Performance level d (vehicle only)
- ▷ VDA 5050-compliant
- Navigation via LiDAR sensors
- Reliable navigation
- 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