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EZ-WAY®, NAVIGATION SOFTWARE FOR CUSTOM MOBILE ROBOTS

EZ-WAY®
Software

ez-Way® is a software for controlling and navigating mobile robots, ensuring smooth and efficient operations.
Installed on each machine, it guarantees mobile robot management, robot localization, navigation, and mission execution. As an accelerator for the development of your mobile robots, ez-Way® streamlines deployment and enhances robot capabilities.

MAIN APPLICATIONS

- AGVs & AMRs
- Mobile industrial platforms
- Intralogistics robots

Equipped with SWD® products

- Makes the platforms equipped with SWD® products autonomous.
- Connects to fleet and factory managers via API VDA 5050.
- Combines several modes: free navigation, line following, manual.

EZ-WAY®
Software

CONTROL AND CONNECTIVITY

EZ-WAY®
STANDALONE MANAGER

- Local mission Manager & Scheduler
- Users control access

Mobile robots equipped with ez-Way® can be used in Standalone mode when a Fleet Manager is not required.

OR

3rd PARTY FLEET MANAGEMENT (server)

- Available from multiple players
- Supporting VDA 5050*
- Suitable for heterogeneous Fleets of AGVs

Mobile robots equipped with ez-Way® can be controlled from any 3rd party Fleet Management System which complies with VDA 5050 standard.

VDA 5050

EZ-WAY®
CONTROL AND NAVIGATION (ROBOTS)

- Hardware management (control & monitoring)
- Localization & sensors management
- Navigation (guided, path following)

EZ-WAY®
MISSION MANAGEMENT

- Missions and tasks (move, load, wait...)
- Robot status (position, state of charge, error...)
- Edit maps and create custom missions

*The VDA 5050 is a standard for connecting autonomous vehicles in industry. It defines communication rules between robots and management systems.

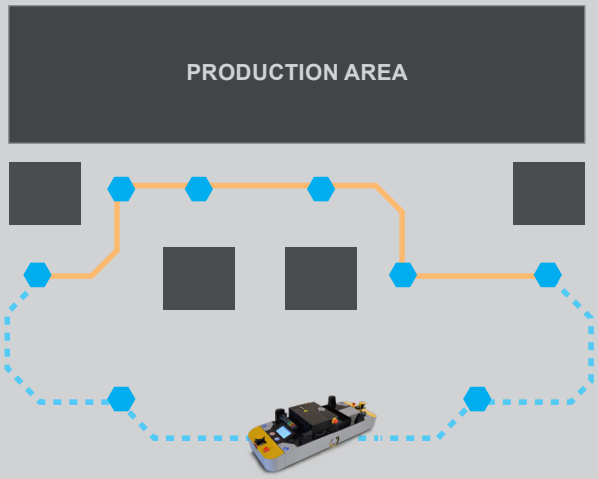
NAVIGATION MODES

VIRTUAL LINE FOLLOWING

- Map-based navigation
- SLAM based localization
- Using data from safety LiDAR(s)
- Path defined by the FMS

PHYSICAL LINE FOLLOWING

- Real line following mode
- Magnetic or optical lines and tags
- Using data from dedicated sensor
- Path defined by the infrastructure



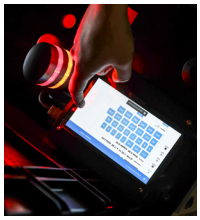
COMBINED-MODES NAVIGATION

- Virtual / Physical lines following
- Can be selected for each path
- Integrated multi-sensor management
- Path defined by the FMS

Node as per VDA 5050
Edge as per VDA 5050 (virtual line)
Edge as per VDA 5050 (physical line)

For any specific needs, Custom Actions can be defined to better adapt the robot's features to any use case.

Visit the product page



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