SIMOVE
Maximizing your production flexibility with AGV

We offer a comprehensive system consisting of standard automation & drives components and a modular software platform.
siemens.com/simove

Increasing individualization and variant diversity of products are shaping the industry of the future. Industrial manufacturing is being led by the trend of flexible production concepts. AGV and AMR play an important role to make your production dynamic and scalable.

Optimize your production process. Maximize the flexibility.

Do you want to make your traditional production workflows and logistics more dynamic?

Do you want to be able to respond more quickly to market changes, optimize your capacity utilization and manufacture smaller batches?

The answer for these challenges is a flexible and self-organizing logistic concept based on our SIMOVE AGV system platform.

Automated Guided Vehicles (AGV) and Autonomous Mobile Robots (AMR) are the backbone of the Digital Factory. With AGVs and AMRs you are able to improve your production process and optimize the manufacturing flow. SIMOVE AGV allows you to change your rigid manufacturing lines into a flexible and modular production. The open and comprehensive SIMOVE AGV system platform is applicable for all production and logistic applications independent of the industry branch.

Welcome to the Digital Enterprise.

SIEMENS
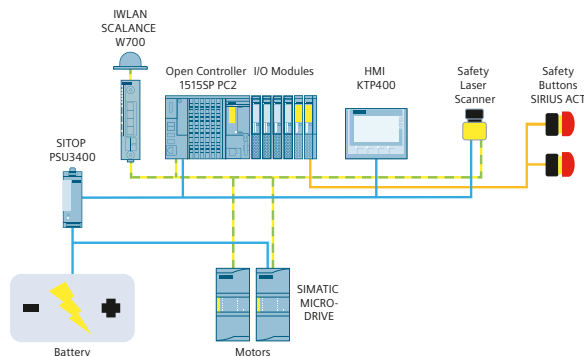
Example of scalable hardware architecture of SIMOVE AGV system package

SIMOVE AGV highlights:

- Proven automation concepts based on Siemens automation & drives components
- Easy integration of vehicles from different suppliers into one common fleet control system
- Open interfaces for third-party integration e.g. navigation, drives and sensors
- Support of various navigation and localization systems e.g. track bounded, laser guided and RTLS
- Communication based on industrial standards e.g. TCP/IP, PROFINET and VDA5050
- Simultaneous WIFI communication of failsafe and non-failsafe data
- SIMOVE competence team for application support

SIMOVE AGV contains the following modules and features:

- Automation software library for Carrier Control
- Cloud/Server based application for fleet control
- Navigation software
- Maintenance software app
- Interface specification
- Component list with recommended hardware
- System description and user guidelines
- Hands-on training for manufacturers and end-users

Siemens automation & drives components enables machine builders and end customers to easily automate and standardize their AGV and AMR applications with proven technologies and open interfaces.

SIMOVE AGV supports the integration of third-party applications via standardized and open interfaces.

For AGV and AMR manufacturers:
Thanks to pre-tested and proven software modules, you benefit from reduced planning & engineering effort and shorter commissioning time.

The SIMOVE AGV application software is based on TIA Portal and enables an efficient way of engineering. The SIMOVE software library contains dedicated pre-configured function blocks.

Siemens offers a comprehensive and scalable hardware portfolio comprising of PLC, IPC, I/O, Drive, RFID, Safety, Communication and Localization components.

For end-users:
Small logistic vehicles as well as advanced production AGVs and complex AMRs – SIMOVE AGV supports different types of AGVs and AMRs and can be easily adapted to your specific use case.

Due to the use of standard automation & drives components SIMOVE AGV fits perfectly into your existing production area.

Training & Support:
Our SIMOVE competence team supports you during all phases, from planning and implementation up to commissioning and after-sales support including hands-on trainings.