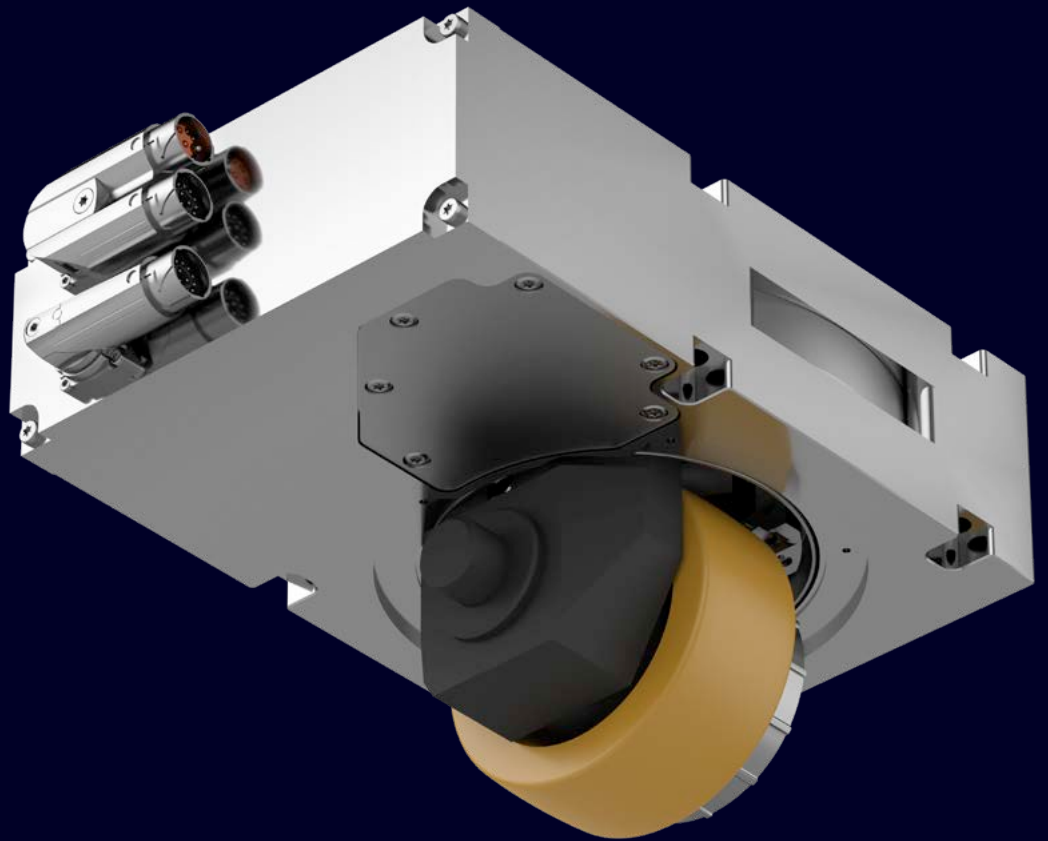


SIEMENS



SIMOTICS E

ArgoDrive driving-steering systems

At the forefront with SIMOTICS E

The SIMOTICS E motor series strategically complements our Siemens portfolio and consolidates our position as a leading technology company in factory automation and digitalization. They are ideal for intelligent, battery-powered mechatronic systems in intralogistics and industrial manufacturing. Their use in mobile robots and driverless transport vehicles, as well as in the automation of auxiliary processes such as the retooling of modern production machines, increases both flexibility and productivity.

[siemens.com/simotics-e-argodrive](https://www.siemens.com/simotics-e-argodrive)

More power, more range

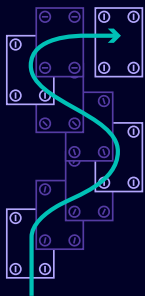
Benefit from new impulses for intralogistics and production: The innovative ArgoDrive driving-steering system for automated guided vehicles (AGVs) offers you maximum flexibility and energy efficiency for your logistics solutions with battery-powered driverless transport vehicles. Rely on the sophisticated concept of the SIMOTICS E ArgoDrive driving-steering systems.

Omnidirectional mobility for your AGVs

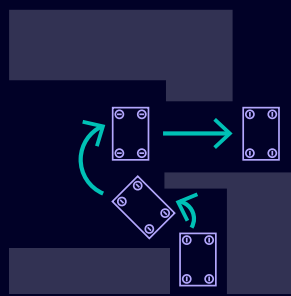
Automated guided vehicles and autonomous mobile robots (AMRs) have long been used in a wide variety of areas in intralogistics and industrial production. However, they usually follow rigid and inflexible line markings on the floor. This prevents them from selectively approaching production stations or changing routes. That's unless you take advantage of the many benefits offered by the innovative SIMOTICS E ArgoDrive driving-steering systems. With their mobility in all directions – even from a standing start.



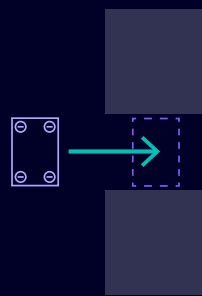
You can find more information at
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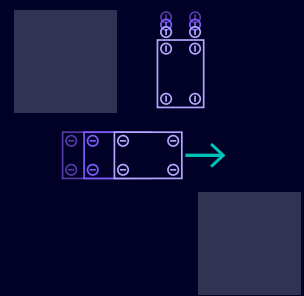
With ArgoDrive, driverless transport vehicles navigate freely across the entire area and easily maneuver around unexpected obstacles.



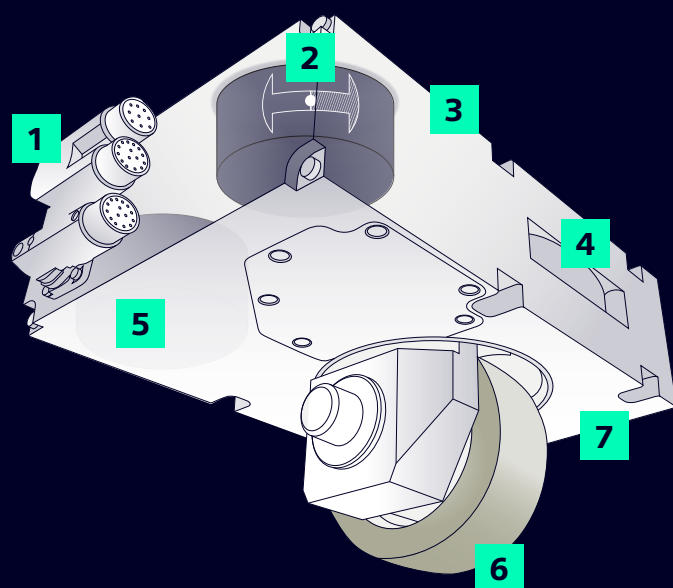
Even when space is tight, the driverless transport vehicle with ArgoDrive finds its way and moves in all directions in the most confined spaces.



Equipped with high-resolution sensors and low-backlash mechanics, the ArgoDrive positions every driverless transport vehicle at its destination with maximum precision.



The sophisticated brake unit, combined with redundant sensor technology, provides the structural basis for meeting functional safety requirements.



1 Interfaces

- Communication & Safety
 - CANopen (STO hardwired)*
 - EtherCAT (STO hardwired)*
 - PROFINET (STO, SLS, SDI)*
- Simple connection
 - Industrial plug-in connections
- Easy project planning
 - Electrical, mechanical and control interfaces identical for all variants

2 Steering angle measurement

- Permanent information about the steering angle
- Redundant information for functional safety

3 Functional safety

- Redundant encoder system SSI
- Separate steering angle detection
- MttF(d) values for sensors
- B10 value for brake
- Brake with emergency stop function

4 Two motors

- High power
 - 300 percent power possible for a short time
 - acceleration/braking up to 2.5 m/s²
 - speed up to 3 m/s
- Compact design
 - through space-optimized distribution of drive power across two motors
- Simplified installation
 - due to safety extra low-voltage (48 V)
- Demand-based
 - to provide the necessary drive power for driving and steering

5 Housing

- Compact dimensions
 - length times width in any configuration only 250 x 170 mm
- Convenient installation
 - several mechanical fastening points for maximum flexibility across all variants
- Robust design
 - for heavy loads and high performance with a long service life
- Flexible positioning on the vehicle
 - position and orientation of the ArgoDrive freely selectable

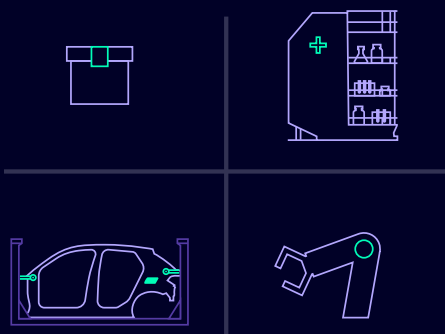
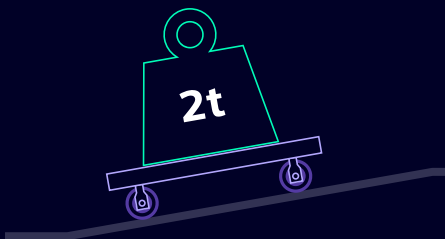
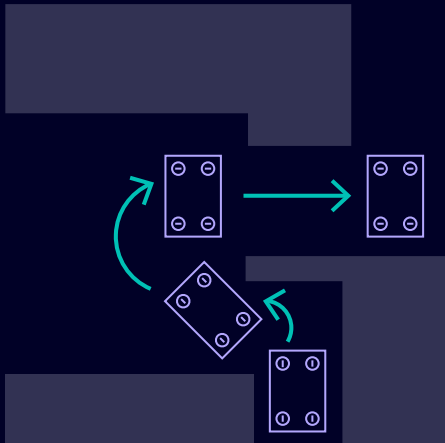
6 Wheel

- High load capacity
 - three diameters for loads of up to 500 kg
- Up to 10% gradient
- Ground clearance
 - 26 to 128 mm, depending on requirements
- Easy to maintain
 - easily accessible and quickly interchangeable

7 Gearbox

- Flexible rotation
 - enables 360° rotation and movement
- Hand in hand
- the steering system enables synchronous adjustment of the steering angle and the provision of drive power from both motors for driving

* With external controller



Simply better:

The innovative driving-steering system for AGVs

- Condition monitoring and predictive maintenance for maximum reliability
- Can be moved in any direction to save space
- Flexible response to obstacles
- Sophisticated safety concepts for vehicles, advanced braking unit
- Intelligent networking via bus systems (CANopen, EtherCAT, PROFINET)

One for all

- Masters 10% gradients and loads of up to 2,000 kg
- Complete unit comprising motor, gearbox, steering, high-resolution sensors and all necessary connections
- Free to navigate the entire area – even from a standing start
- Compact dimensions and permanently installed cables
- Three versions for individual requirements:
 - Light (100 kg)
 - Standard (300 kg)
 - Heavy (500 kg)

SIMOTICS E ArgoDrive:

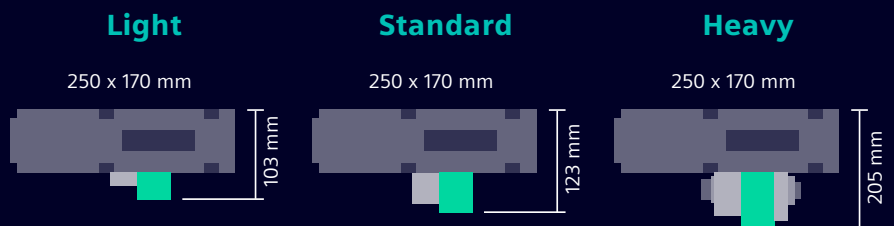
Strong drive solution for strong industries:

- In medical technology: ensures rapid response and higher level of safety
- In mobile robotics: achieves maximum flexibility
- In intralogistics: masters the most demanding challenges
- In automotive production: enables smooth system interlinking

Limitless possibilities for your application development

No matter what logistics requirements you want to fulfill with your AGV, with ArgoDrive you can meet them all. With Light, Standard and Heavy versions and the ability to combine multiple steering systems, you have all the options.

Three versions – all differences at a glance



		Light	Standard	Heavy
Wheel diameter	mm	80	100	145
Max. load capacity per wheel	kg	100	300	500
Nominal speed	m/s	3	2	1.5
Overall height	mm	103	123	205
Ground clearance to gearbox	mm	26	45.5	128
Ground clearance to brake disk	mm	11	12	14



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