

ER-Series Inertial Navigation Automatic Guided Vehicle (AGV)



Product features:

- 1.The inertial navigation AGV has advanced technology, high accuracy, high flexibility, convenient combination and compatibility, and wide application.
- 2.Relative to the magnetic navigation AGV products, inertial navigation AGV products is one of track navigation AGV, It can't need fixed route, with greater freedom of movement, particularly suitable for intelligent mobile warehousing logistics, workshop assembly application scenarios.
- 3.The running route of the inertial navigation AGV can be dynamically generated. The users can automatically generate transportation tasks according to the requirements of software such as ERP and WMS. Or through the personnel, the station to carry on the dynamic call function, or through the automation equipment interface with PLC, CNC, elevator, according to need to complete the logistics transportation task.
- 4.Inertial navigation AGV products have more flexible, not only can be used in indoor, but also be used in outdoor, not only to adapt to the common ground, also can adapt used in steel floor. Product form can be applied from non-standard to industrial standardized vehicles.

Specification parameters:

Model	Specification parameters		
Body size of vehicles	Customization		
Mode of loading	Latent traction	Latent lifting	Carry the load transfer
Load capacity	1500kg	1000kg	1500kg
Rate	0-60m/min		
Guidance accuracy	±10mm		
Stop accuracy	±10mm		
Climbing capacity	≤3%		
AGV control mode	A/M Automatic/manul		

AGV navigate mode	Inertial navigation
AGV drive mode	steering engine/The double differential of wheel
AGV walking mode	Forward、back、flipper-turn/pivot steering
Wireless communication mode	Internal LAN (WIFI)
Safety protection device	Contact bumper+laser non-contact anti-collision sensor+sound-light alarm+dynamic system monitoring
Electrical wiring	Comply with electrical safety standards and usage procedures
Battery status	Touch screen with battery monitor and alarm when low power
Usage environment	AGV can meet the production environment requirements of the factory
Quality and safety	The AGV is in line with relevant national quality standards, environmental standards and electrical safety standards
Battery pack	Lithium batteries/lead-acid batteries
Charging mode	Automatic charging or artificial charging
Design lifetime	≥10 years

Products advantages:

- 1.Intelligent electronic map, CAD, YAML map expression;Under the path, AGV is based on the board map route, and the path change is simple and convenient.
- 2.Trackless navigation technology, strong traffic control system, more flexible deployment capability;The site task changes in real time, selecting the optimal route according to the actual situation.
- 3.Multiple docking modes, latent traction, latent lifting, tail traction, load shifting, etc.
- 4.The system realizes intelligent logistics, flexible assembly and so on.
- 5.Software, hardware system performance is stable, safe, reliable, easy to maintain
- 6.Simple construction path, no trace of the construction after the end of maintenance-free, no maintenance costs.