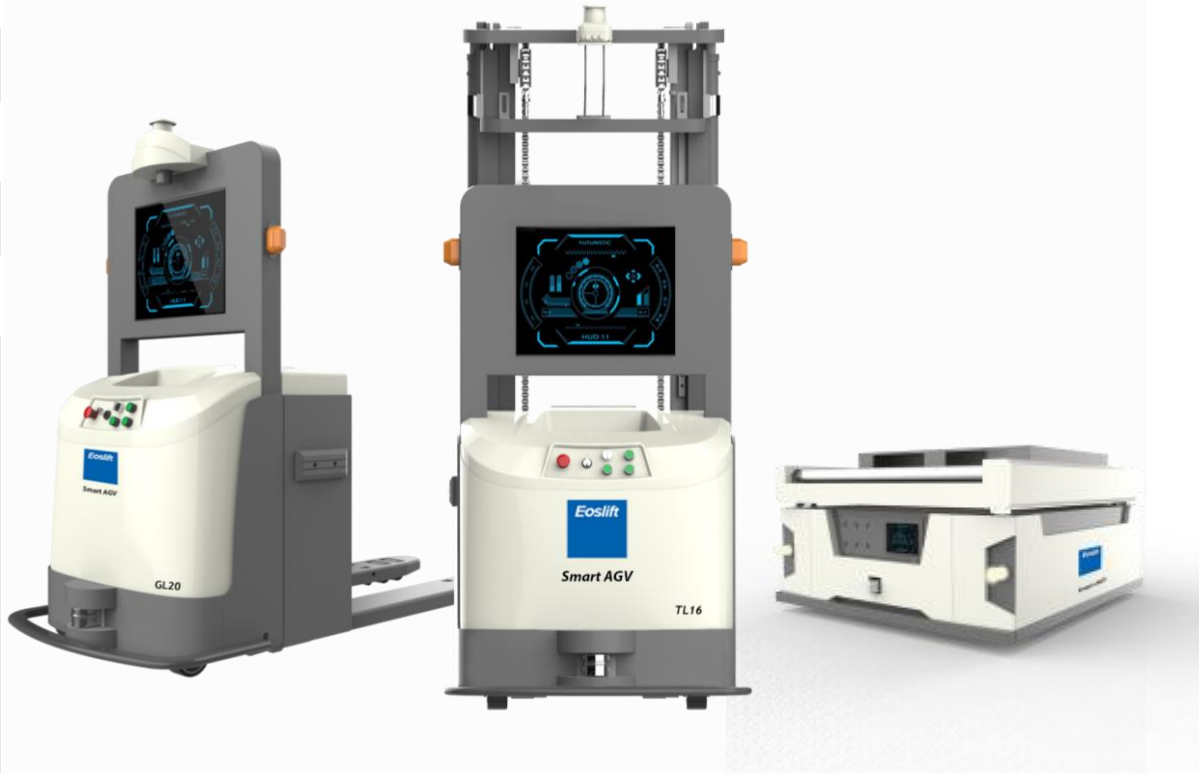
EOSLIFT
Automation Technology Corp.

Core Product: EOSLIFT AGV (Automated Guided Vehicle)

Navigation Modes

Comparison of Mainstream AGV Navigation Modes

	Magnetic Bar Navigation	Laser SLAM (Reflector)	Laser SLAM (SLAM)	Visual Navigation (VSLAM)
Usage Scenarios	Workshop Internal	Indoor	Relatively Fixed Interior	Indoor
Reference	Magnetic Stripe+RFID	Reflector	The Surrounding Environment	No Tracks or Landmarks Needed
Positioning Accuracy	±1 cm	±1.5 cm	±1.5 cm	±1.5 cm
Conventional Speed	0-131 ft/min	0-236 ft/min	0-236 ft/min	0-236 ft/min
Advantage	AGV positioning is accurate, the path laying, change or expansion of the electromagnetic navigation is relatively easy. Magnetic strip costs less. In the human-computer interaction environment, it is better to avoid obstacles by using laser.	Accurate AGV positioning; No other locating facilities are required on the ground. The driving path can be flexible, can adapt to a variety of on-site environments. It is the advanced navigation method preferred by many AGV manufacturers at home and abroad.	No additional equipment is required for the environment and the route is easy to extend. Dispatch and avoidance is more flexible	Accurate positioning, ground without other positioning facilities, suitable for a variety of production and work environment. Autonomous positioning, autonomous decision-making, automatic path planning and flexible obstacle avoidance.



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EOSLIFT AGV SYSTEM - Customization + Three in One + Efficient Scheduling + Intelligent Charging

Truck Types

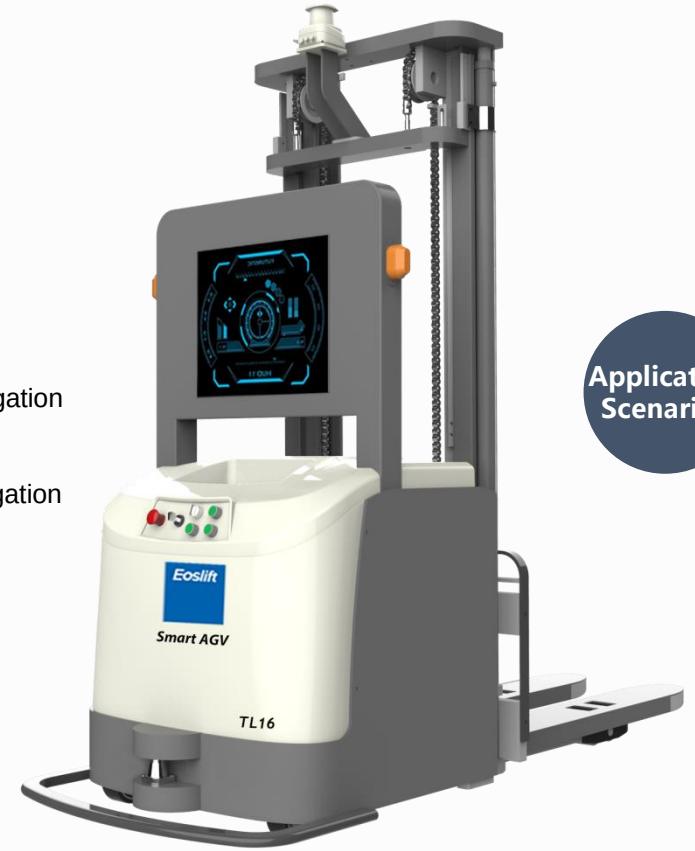
- Forklift type
- Backpack type
- Latent type

Navigate Modes

- VSLAM navigation
- Laser feedback navigation
- SLAM navigation
- Magnetic stripe navigation
- Qr code navigation
- Hybrid navigation

Chassis Structure

- Steering wheel
- Differential
- Mecanum Wheel



Application Scenarios

Raw Material Transportation

AGV transports the corresponding raw materials from the storage area to the production lines according to the upper system (latent AGV with drum)

Pallet Transportation

AGV lifts pallet-load from the production line or warehouse area to the designated area. It is mainly used in the production industry or warehousing transit. (Carry-type AGV, Stacking AGV)

Process Assembly

According to upper system instructions, AGV load components from one process to another for assembly (latent AGV)

Transportation of finished products

AGV loads finished products and transports them from production line to designated storage area or loading and unloading terminal

Special Scene Transportation

AGV load production line to enter scenarios that people can't access, such as refrigerators, high temperature zones (customized refrigerators, explosion-proof AGV, etc.)

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Technical Parameters

Model: TL16				
Max.lift Height	141 in.	System Interface	Reserved MES, scheduling system interface	
Rated Capacity	3500 lbs.	Fork Length mm	45 in.	
Overall Length	88 in.	Width of Single Fork	7 in.	
Overall Width	32 in	Outside of Two Forks is Wide	22 in.	26.9 in.
Tuning Radius	67.9 in.	Ground Clearance	1 in.	
Navigation Modes	laser SLAM	Travel Speed m/min	≤1393 ft/min	
Positioning Accuracy	±0.5cm(Higher accuracy requires secondary positioning)	Walk Way	Forward, backward, turn	
Non-contact Sensor	Beiyang safety protection lidar	Climbing Ability (full load/no load)	8%/10%	
Contact Sensor	Conductive rubber	Battery Type	Lithium battery/lead-acid battery	
Sound and Light Warning Template	Sound and light cues	Battery Capacity	150/280AH	150/320AH
Wireless Network	Industrial-grade WIFI	Charging Way	Automatic line charging/manual charging	

Core Product: EOSLIFT AGV

Technical Parameters

Model: GL20				
Max.lift Height	8.1 in.	System Interface	Reserved MES, scheduling system interface	
Rated Capacity	4400 lbs.	Fork Length mm	45 in.	
Overall Length	77.9 in.	Ground Clearance	1.18 in.	
Overall Width	32 in.	Outside of Two Forks is Wide	22.2 in.	26.9 in.
Tuning Radius	69.88 in.	Width of Single Fork	6.88 in.	
Navigation Modes	laser SLAM	Travel Speed m/min	≤393 ft/min	
Positioning Accuracy	±0.5cm(Higher accuracy requires secondary positioning)	Walk Way	Forward, backward, turn	
Non-contact Sensor	Beiyang safety protection lidar	Climbing Ability (full load/no load)	8%/10%	
Contact Sensor	Conductive rubber	Battery Type	Lithium battery/lead-acid battery	
Sound and Light Warning Template	Sound and light cues	Battery Capacity	150/280AH	150/320AH
Wireless Network	Industrial-grade WIFI	Charging Way	Automatic line charging/manual charging	

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Technical Parameters

Model: BM12				
Rated Capacity	2600 lbs.	Wireless Network	Industrial-grade WIFI	
Overall Length	68.5 in.	System Interface	Reserved MES, scheduling system interface	
Overall Width	59.2 in.	Minimum Fork Height	1.69 in.	
Tuning Radius	Omnidirectional	Travel Speed m/min	≤393 ft/min	
Navigation Modes	Magnetic bar navigation	Walk Way	Forward, backward, turn	
Positioning Accuracy	±0.5cm((Higher accuracy requires secondary positioning)	Climbing Ability (full load/no load)	≤8%	
Non-contact Sensor	SICK safety guard lidar	Battery Type	Lithium battery/lead-acid battery	
Contact Sensor	Conductive rubber	Battery Capacity	150/280AH	150/320AH
Sound and Light Warning Template	Sound and light cues	Charging Way	Automatic line charging/manual charging	

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Technical Parameters

Model：TL12	
Overall dimensionsL*D*H(in)	74.8x33.7x57.1(Including anti-collision strip and antenna)
Gravity(lb)	1543.2
The goods fork length(in)	45.3
Maximum deadweight(lb)	2645.4
Single fork width(in)	7.3
The two cargo forks are wide outside(in)	27.6
Clearance from the ground(in)	1
Maximum lift height(in)	633
Climbing ability (full load/no load)	3°/5°
Drive way	Front wheel drive and steering
Navigation way	Laser SLAM+ assisted high precision secondary localization
Mode of operation	Manual and automatic
Laser obstacle avoidance	Area safety laser
Collision bar detection	Headstock surrounded collision bar detection
Pallet arrival detection	Yes
Fork tooth detection	Fork-tooth micromotion/stroke sensor detection
Scram	Front, left, right emergency stop button, cargo fork emergency stop
Sound and light alarm	Yes
Rated operating speed (no load)(in/s)	59.1
Stop accuracy(in)	±0.4
Fork speed (load/no-load)(in/s)	2.8/3.9
Drop fork speed (load/no-load)(in/s)	3.9/2.6
Minimum turning radius(in)	55.5
Battery rated voltage（V）	24V
Battery capacity（Ah）	150
Charging time（H）	1.5

Eoslift

The Future of Warehousing

1590 S. Milliken Ave, Unit H , Ontario CA 91761
t: (+1) 888-264-5008
www.eoslift.us

Official Website

WeChat Platgorm