

DEDICATED FOR ENERGY STORAGE

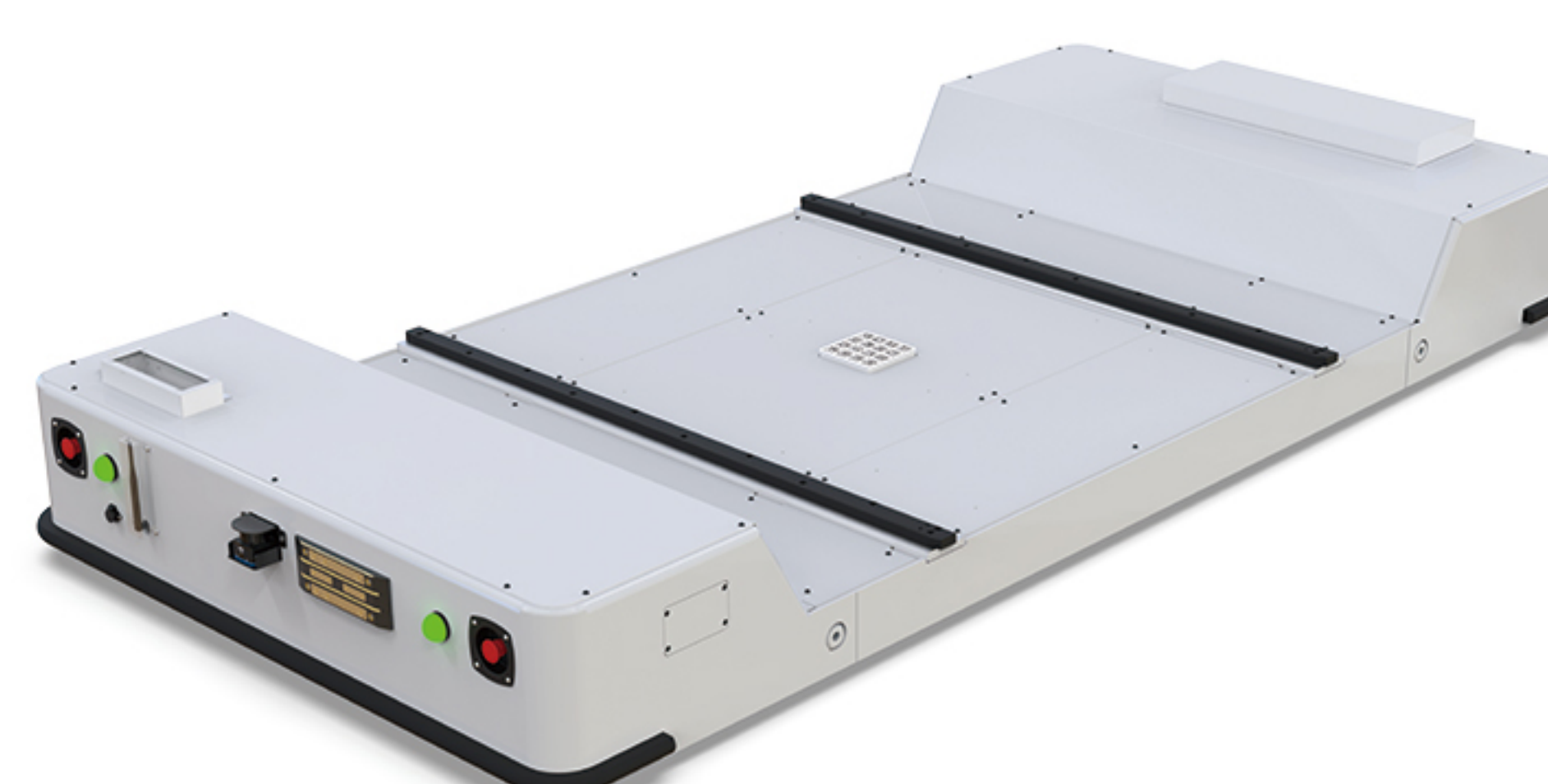
ELECTRIC HEAVY-DUTY AGV & RGV



Four-Way RGV、Heavy-Duty AGV (Container-Use)



Backpack AGV (PACK-Stacking)



Backpack Shuttle RGV (PACK-Stacking)

Aotto's heavy-duty electric AGV and RGV, specially developed for energy storage applications, are ideal for energy storage container manufacturing, container ports and yards, PACK stacking lines, and other logistics scenarios.

Omni-Directional • Hybrid Navigation • IP45 • 60T Heavy-Duty • 24/7 Operation

Lifting Capacity $\geq 60T$

- Heavy payload with strong eccentric load resistance
- AGV supports lateral movement, rotation, and diagonal travel
- RGV supports forward, reverse, and lateral movement
- Hybrid navigation with millimeter-level docking

Safety Protection

- Laser obstacle avoidance with no blind spots
- Three-stage collision protection: speed / slow-down / stop zones
- 360° Safety edges (30ms response)
- Power-loss braking + slope anti-rollback

Energy Storage Dedicated

- Designed for energy storage PACK & container logistics
- IP45 dust & waterproof (spray room compatible)
- Operating range: 0°C~45°C, 95% RH
- Auto linkage with roller doors, spray rooms and production lines



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■ Specifications

Product		Container-Use		PACK-Stacking	
		Four-Way RGV	Heavy-Duty AGV	Backpack AGV	Backpack Shuttle RGV
Main Parameters	Rated Load (T)	60/80		8	10
	Navigation	QR Code	Laser / Magnetic Strip / QR Code	QR Code	
	Drive System	Steel Dual Wheels	4 differential wheels	Steel Wheel Set	
	Steering Mode	Forward, Backward, 90° Steering Change	Forward, Backward, Turning, 360° In-Place Rotation, Lateral Shift, Diagonal Movement	Forward, Backward	
	Suspension System	-	Hydraulic	-	
	L×W×H (mm)	6500*1700*500	6500*2100*750	2500*1500*300	3100*1600*500
	Weight (T)	~8		~1	
Safety	HMI	Touchscreen (Optional)	Touchscreen	-	
	Radar Position	Front, Rear & Side	Diagonal Corners	Front & Rear	
	Laser Obstacle Avoidance Radar	Domestic / Imported		Domestic / Imported	
	Radar - Installation Height (mm)	120	220	100	220
	Radar - Field of View (°)	270		270	
	Radar - Max. Detection Range (m)	6		5	
	Safety Edge	360°		Front & Rear	
	E-Stop Button	Four Corners of Vehicle Body		Four Corners of Vehicle Body	
Motion	IP Class	IP55		-	
	Rated Speed - No Load (m/s)	0.5		0.5	
	Rated Speed - Full Load (m/s)	0.4		0.4	
	Rated Acceleration - No Load (m/s²)	0.2		0.2	
	Rated Acceleration - Full Load (m/s²)	0.1		0.1	
	Climbing Ability	-	3%	-	
	Stopping Angle Accuracy (°)	-	±1	-	
	Lifting Mechanism	Hydraulic		-	
	Lifting Height (mm)	100	150/200	-	
Battery	Positioning Accuracy (mm)	±5	±10	±5	
	Charging Location	Floor Charging	Side / Floor Charging	Floor Charging	Side
	Charging Mode	Manual/Automatic		Manual/Automatic	
	Battery Type	Lithium Iron Phosphate		Lithium Iron Phosphate	
	Charger Power Supply	380V 3-Phase AC, 50±2Hz		380V 3-Phase AC, 50±2Hz	
	Rated Voltage (V)	48V 400Ah		48V 60Ah	
	Charging Cycles	2000 Cycles		2000 Cycles	
Options	Operating Range (m)	≤2000（60T load capacity）		≤500	
	Charging Time (After 80% Discharge)(h)	≤2		≤2	
	Communication - Wifi	●		●	
	Communication - 5G	○		○	
	Communication - Wifi+5G	○		○	
	Battery - With Heating Function	○		○	
Note:● = Standard Configuration ○ = Optional Configuration — = Not Available					

* The positioning accuracy stated above was measured under ideal conditions.

* Actual accuracy may vary depending on site environment, rack/tooling dimensions, docking conditions, and other factors. Please refer to the real on-site performance.

