

UniMover™

Automated Guided Vehicles (AGVs)

UniMovers are designed to operate across a broad spectrum of automotive and healthcare logistic applications. These AGVs, controlled by our supervisory SuperFROG[®] software, provide a logistics solution trusted to execute mission-critical operations.



FEATURES

High lifting power

Standard and crabbing drive functionality for efficient operation in limited floor space

24/7 operation supported by high-capacity and opportunity charging using lithium titanate LTO battery technology

UniMover™

Automated Guided Vehicles (AGVs)

We offer standardized UniMovers in configurations designed to meet industry challenges. Our AGVs provide the customer with a safe and efficient logistics solution that delivers optimized transportation of goods and eliminates incidents on the workflow.

UniMovers are specifically designed to operate across a broad range of logistics and healthcare applications—from complex automotive assembly and mission critical hospital applications to simple towing or conveying operations. Our UniMover AGVs have been designed to seamlessly integrate into multiple industries.

- » Automotive
- » Healthcare
- » Pharmaceutical
- » Warehouse Automation
- » Metals and Heavy-Duty Applications
- » Electronics and Plastics

Our proprietary SuperFROG® supervisory software system controls fleet and traffic management, including various logistics functions and order fulfillment. SuperFROG® also defines vehicle traffic rules, collects AGV performance data, and optimizes battery consumption and charging requirements.

The inherent control features provide the customer with a healthy system offering continuous, around-the-clock logistics activity. UniMovers can be integrated into a larger network of AGVs—of like and different types—operating within the same layout.

Vehicle Design

Standard UniMover designs are configured to meet customer requirements using various handling options.

- » Lifting table or stationary platform
- » Tugger
- » Conveyor

UniMovers are available in 3-wheel and dual drive configurations that enable sideways (crab) driving to ensure accurate positioning under loads.



Technical data

Type	Lifting table	Lifting table	Tugger	Lifting and tugger
Standard wheel configuration	6 wheel (2 x drive/steer, 4 x swivel castors)	3 wheel (1 x drive/steer, 2 x fixed load wheels)		
Drive motor	24V AC, 2kW, max speed 1.6 m/s	48V AC, 4kW, max speed 1.6 m/s		
Dimensions (L x W x H)	8.69 x 2.23 x 1.26 ft 265 x 68 x 38.5 cm	6.56 x 2.62 x 1.57 ft 200 x 80 x 48 cm		
Maximum payload	1,543.24 lb 700 kg	3,306.93 lb 1,500 kg	6,613.87 lb 3,000 kg	6,613.87 lb 3,000 kg
Navigation	Magnet, laser, landmark (infrastructure free)			
Standard power	Lead acid: 24V/100Ah	Lead acid: 48V/100Ah		
Optional power	LTO 24V/100Ah (High Capacity, Fast Recharge)			
Recharge method	Opportunity, swap			
Safety	Various integrated safety features including emergency stop buttons, obstacle detection sensors, and collision prevention systems (optional)			
User interfaces	Touch screen, joystick, auto/manual, on/off and pause			

UniMover™ Mini

The UniMover Mini line of AGVs delivers high capability in a compact design. The vehicles are ideal for automotive, healthcare, pharmaceutical, and warehouse applications where small, tunneling AGVs with exceptional maneuverability are required to transport light to medium loads. Dual, centrally-located independent drive wheels and dual casters fore and aft enable the UniMover Mini to spin about its center axis. The CE-rated vehicles also feature flexible suspension configured to optimize weight distribution for load carrying capacity, safe braking, and stability.

Our proprietary SuperFROG® supervisory software system controls fleet and traffic management, enabling complex traffic interactions and the highest level of flexibility

in logistics planning. SuperFROG® also defines vehicle traffic rules, collects AGV performance data, and optimizes battery consumption and charging requirements. The system can control multiple types of AGVs in the same layout, enabling scalability for future automation needs.



Vehicle Design

The UniMover Mini is available in four standard configurations and can be customized to meet customer specifications.

- » Platform: flat table top and optional conveyor integration
- » Lifting Table: includes a 3.94 in/10 cm lift table
- » Towing Pin: enables towing and orientation control
- » Scissor Lift: includes a 19.69 in/50 cm scissor lift table and height-adjustable assembly platform

Technical data

Type	Platform	Lifting Table	Towing Pin	Scissor Lift
Standard wheel configuration	4 wheel (2 drive and 2 swivel casters)			
Drive motor	2 x 24V AC, max. speed 6.6 ft/s (2 m/s)			
Length	3.28, 3.94, 4.59 ft / 100, 120, 140 cm			120 cm
Width	1.97, 2.30, 2.62, 2.95, 3.28 ft / 60, 70, 80, 90, 100 cm			2.62, 2.95, 3.28 ft / 80, 90, 100 cm
Height	1.12 ft / 34 cm	1.12 ft / 34 cm	1.15 ft / 35 cm	1.48 ft / 45 cm
Maximum payload	2,645.55 lb / 1,200 kg			1,763.7 lb / 800 kg
Navigation	Standard grid navigation with optional landmark navigation available			
Standard power	NMC: 24 V / 50 Ah			
Recharge method	Standard: sideways Opportunity, swap			
Safety	Various integrated safety features including emergency stop buttons and obstacle detection sensors			
User interface	Touch screen, joystick, auto/manual, on/off and pause			

Oceaneering AGV Systems for Advanced Logistics Solutions

Oceaneering is a worldwide leader in safe, reliable, and flexible turnkey logistic and production solutions based on Automated Guided Vehicle (AGV) technology. Through innovative application of our field-proven hardware and software, our customers can benefit from adopting our AGV systems in mission-critical operations, providing long-term strategic value.

- For more information: oceaneering.com/agv



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