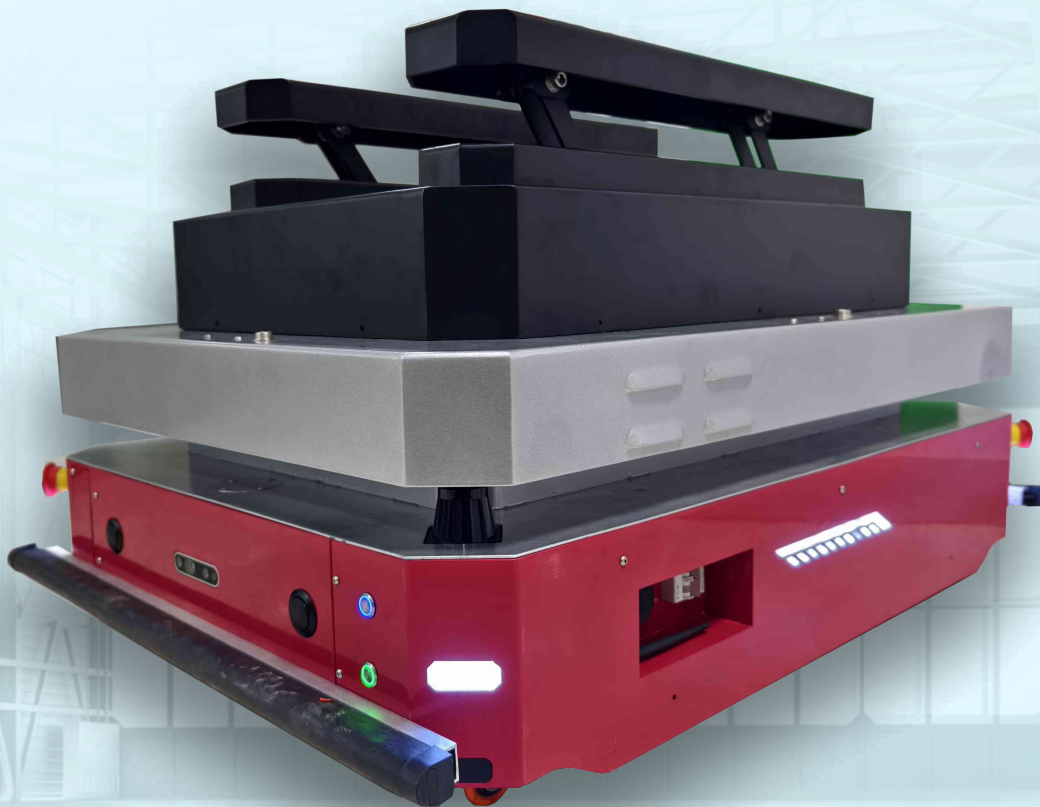




PALLET LIFTER SERIES

AUTONOMOUS MOBILE ROBOT

We offer Custom-Engineered Robotics Solutions

What sets Ciyes apart in AMR solutions?



Full-Stack Engineering Expertise

- In-house capabilities in PCB design, embedded systems, mechanical enclosures and powertrain development
- Ability to design at component level, ensuring precision control, safety and energy efficiency



Multi-Disciplinary Design Strength

- Synergy across software, electronics and mechanical design under one roof
- Mechatronics - driven development ensuring ruggedness and operational continuity



Custom-Built for Industrial Use Cases

- Modular AMR platforms to suit logistics, storage, facility services and hygiene automation
- Seamless integration with MES, ERP and WMS systems for synchronized workflows



Rapid Deployment with Scalable Platforms

- Configurable chassis and payload systems for rapid customization
- Fleet management system ready for scale-up across large plants and multi-site operations

Core Technologies Powering Our AMRs

SLAM

Reliable indoor navigation in dynamic layouts

AI Path Planning

Real-time obstacle avoidance and rerouting

Custom PCB Design

Optimized control, safety and sensor interfacing

Battery & Power Design

10+ hours of runtime with intelligent charging

Rugged Mechanical Frames

Suitable for industrial floor conditions

Modular Software Architecture

Quick integration with enterprise systems

Specifications

Specifications	Features/Functionalities Capabilities	Specifications	Features/Functionalities Capabilities
Mass Unloaded	140 Kg	Battery Technology	Lithium - Ion
Rated Speed	1.5 m/s	Nominal Voltage	48 V
Max Slope	7 °	Rated Ampere - Hour Capacity	67.6 Ah
Dimension	1085 x 730 x 350 mm	Total Energy Density of Battery	3244 W
Nominal Power	2 x 400 W	Charging Volume	54.6 V
Type	AMR	Charging Current	30 A
Model	Pallet Lifter	Safety	Obstacle Detection
Ground Clearance	25 mm		Dynamic Obstacle Avoidance
Payload	Up to 250kg		Emergency Stop
Customizable	Up to 500kg		LED Indication (Light)
Lidar	2 x 2D lidar (360 ° coverage)		Buzzer
		Communication	Safety Edge
			Wi-Fi (Dual Band Wireless)
			I/O Connections (USB, Ethernet)



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