

ACCELERATING SMART MANUFACTURING WITH

HORIZON

AUTONOMOUS MOBILE ROBOT



YOUR PARTNER IN INTELLIGENT INTRALOGISTICS AUTOMATION

We offer Custom-Engineered Robotics Solutions

What sets Ciyes Systems 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

Ciyes Systems AMR Portfolio Tailored for Business Needs

Heavy-Duty Autonomous Load Carrier (LR-Series)



- **Payload:** Up to 250 kg
- Customizable: Up to 500 kg
- Navigation: LiDAR + camera - SLAM
- Speed: Up to 1.5 m/s
- Battery Life: 10+hours
- Ideal inventory management in warehouses, pallet movement, raw material transfer and floor logistics

Autonomous Pallet Handler (FLR Forklift Series)



- **Lift Capacity:** 2000 kg
- Navigation: LiDAR + camera - SLAM
- Speed: Up to 1.5 m/s
- Battery Life: 10+hours
- Suited for heavy material transport in large-scale warehousing and production line

Vertical Storage & Retrieval Automation (ASRS Robot)



- **Lift Capacity:** 200 kg
- Navigation: LiDAR + camera - SLAM
- Speed: Up to 1.5 m/s
- Battery Life: 10+hours
- RFID/Barcode Integration
- Enables real-time inventory visibility and optimal use of vertical space.
- Seamless integration with Warehouse Management Systems (WMS).
- Ideal for small parts logistics, e-commerce order fulfilment

UV Disinfection Robot (Autonomous Hygiene Solution)



- Navigation: LiDAR + camera - SLAM
- Speed: Up to 1.5 m/s
- Battery Life: 10+hours
- UV-C Effectiveness: 99.9% pathogen neutralization | Safety Detection
- Used in wide range of industries and environments where hygiene and infection control are critical.

Delivery and Interaction Robot (Service Series)



- **Payload:** Up to 60 kg | Voice UI & Touch Displays
- Navigation: LiDAR + camera - SLAM
- Speed: Up to 1.5 m/s
- Battery Life: 10+hours
- Facilitates parts, tool and utility transport; supports multi-floor operation