

ASRS ROBOT

Automated Storage & Retrieval System



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	130 Kg	Battery Technology	Lithium - Ion
Rated Speed	1.5 m/s	Nominal Voltage	48 V
Max Slope	3 °	Rated Ampere - Hour Capacity	150 Ah
Dimension	1300 x 800 x 2000 mm	Total Energy Density of Battery	7200 W
Nominal Power	2 x 800 W	Mass	52 Kg
Type	AMR	Safety	Obstacle Detection
Model	ASRS Robot		Dynamic Obstacle Avoidance
Ground Clearance	40 mm		Emergency Stop
Lift Capacity	200 Kg		LED Indication (Light)
Camera	3D depth camera		Buzzer
Lidar	2D Lidar		Safety Edge
		Communication	Wi-Fi (Dual Band Wireless)
			I/O Connections (USB, Ethernet)



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