

ASRS ROBOT

Automated Storage & Retrieval System



We offer Custom-Engineered Robotics Solutions

What sets Caliber 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	3.25 Deg	Rated Ampere - Hour Capacity	150 Ah
Dimension	1300 x 80 x 300 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
Payload	Upto 1 ton		LED Indication (Light)
Lidar	4 piece Lidar		Buzzer
			Safety Edge
		Communication	Wi-Fi (Dual Band Wireless)
			I/O Connections (USB, Ethernet)

