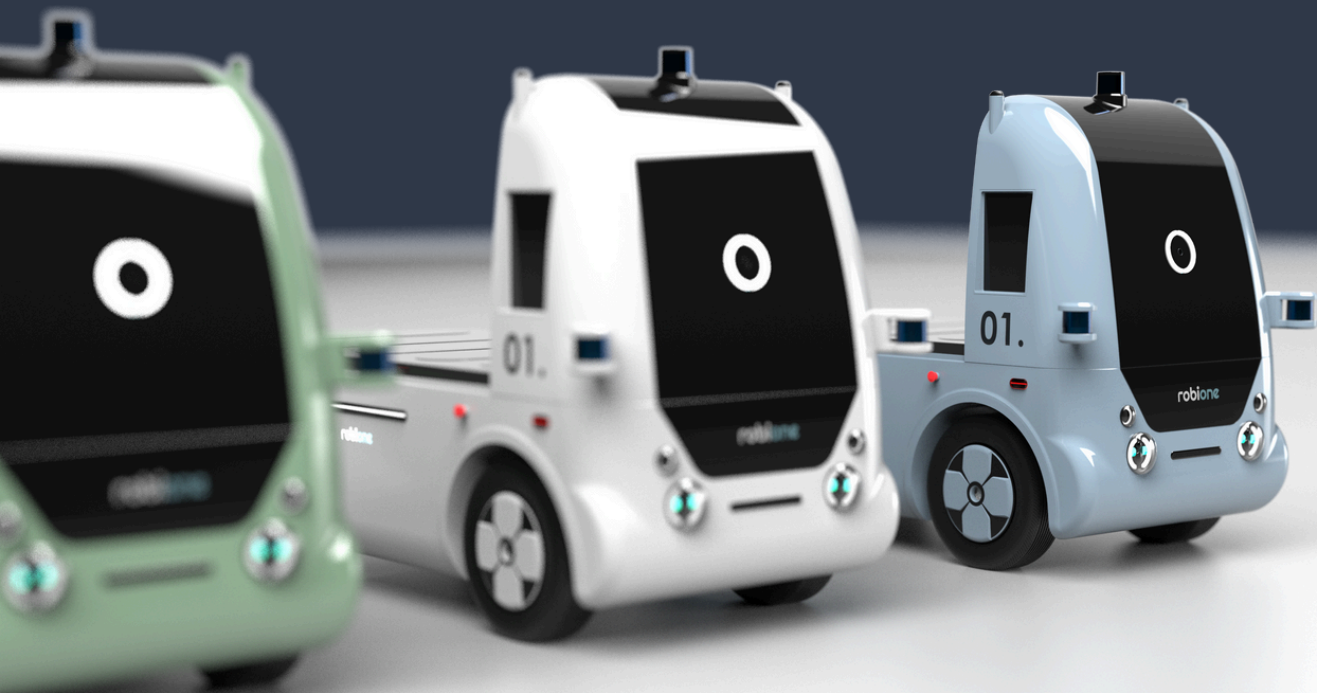


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Series

robione Facility Robot
Brochure



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robione Facility Robot



robione Facility Robot is developed for factory and warehouse operations with efficient, high-speed indoor and outdoor transport. It is ideal for towing and heavy loads, and offers seamless integration, enhancing digitalization and process optimization. The platform is suitable for use in environments such as industrial or production areas, warehouses, refineries, factories and airports.

Features

Towing

Robust pulling strength (up to 1500 kg) to efficiently move large trailers or carts, enhancing material handling and logistics flow in industrial settings.

Load Capacity

High load-bearing capability (up to 800 kg) to transport goods, materials, or products efficiently within the facility.

Energy Efficiency

A long battery life (up to 8 hours) and reduced operational costs through efficient power management.

Safety

Includes e-stop button, collision alert systems, and dual-brake system to ensure the safety of both the platform and humans.

User-Friendly GUI

Intuitive and responsive control systems that allow for easy operation and management of the platform's activities.

Autonomous Navigation in Outdoor

The ability to navigate independently through outdoor environments, avoiding obstacles, and optimizing routes for efficiency and safety.

Software Features

- Localization
- Route Tracking & Switching
- 3D Object Detection
- Collision and Obstacle Avoidance
- Data Recording and Analysis
- Remote Software Update
- Operation at Night in Outdoor

Applications



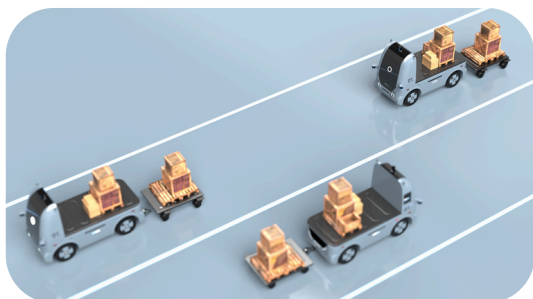
Material Handling

Transporting raw materials, components, and finished products between different stages of the production process.



Inventory Management

Assisting in stock retrieval, restocking, and organizing inventory within storage facilities.



Assembly Line Feeding

Supplying assembly lines with required components and materials, ensuring a continuous production flow.



Loading and Unloading

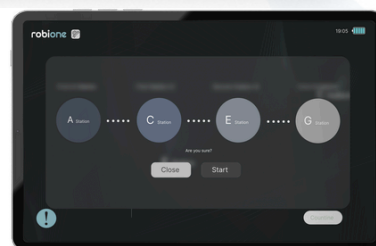
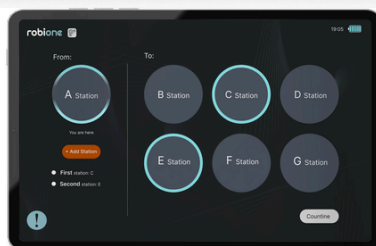
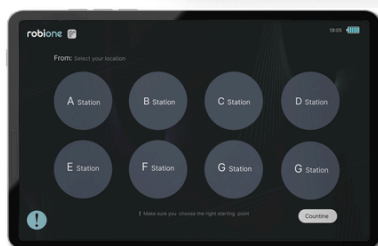
Assisting in loading and unloading goods from trucks or other vehicles to streamline logistics operations.



Yard Management

Transporting goods across large warehouses or outdoor storage areas, improving yard efficiency.

Graphical User Interface (GUI)



GUI Features

Intuitive Design: The layout and navigation is straightforward, allowing users to understand and operate the interface with minimal instruction.

Responsive: The GUI responds quickly to user inputs, with minimal lag or loading time, ensuring a smooth interaction experience.

Customizable: Allowing users to adjust settings and personalize the interface can improve their satisfaction and efficiency.

Teleoperation System

A desktop application connected to an MQTT (Message Queuing Telemetry Transport) server running on Amazon Web Services is provided for users to view and track data from sensors and systems integrated into the vehicle. Data such as camera, speed, steering angle, and battery status can be monitored and followed in real-time. Additionally, the application offers the capability to remotely control the vehicle for users with a steering set or joystick.

Specifications

| Performance | |
|------------------------------|---|
| Max. Forward Speed | 20 km/h |
| Max. Reverse Speed | 5 km/h |
| Range | 80 km |
| Towing Capacity | 1500 kg |
| Load Capacity | 800 kg |
| Turning Radius | 3 m (min) |
| Climbing Performance | Dry pavement, 600 kg load: 11° |
| Power | |
| Motor Power | 3 kW |
| Battery Type | LiFePO4 Battery Pack |
| Rated Battery Voltage | 60 V |
| Rated Battery Capacity | 100 Ah |
| Charge Unit | 1.4 kW Onboard Charger Input: 180-240 VAC Output: 73 V / 20 A |
| Charge Time | 6 hrs |
| General | |
| Steering & Suspension System | Ackermann Steering Geometry / MacPherson Strut Suspension |
| Break System | Electric / Hydraulic |
| Body | Monocoque fiberglass composite body, Automotive-style steel frame. |
| Weight & Dimensions | |
| Weight | 600 kg |
| Length | 2700 mm |
| Width | 1180 mm |
| Height | 1780 mm |
| Load Surface | 2 m ² |
| Tyre Dimensions | 155 / 65 / R14 |
| Wheelbase | 1600 mm |
| Ground Clearance | 200 mm |
| Warranty | |
| Warranty Period | One-Year Warranty |

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Contact Us

Robeff Teknoloji Anonim Őirketi

Çiftelahuzlar Mahallesi Eski Londra Asfaltı Caddesi
Kuluçka Merkezi A1 Blok No: 151/1C İç Kapı No: B01
Esenler, İstanbul - Türkiye

+90 542 661 5696
sales@leostore.ai



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