FORKON

AUTONOMOUS FORKLIFT ROBOT

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ForkOn transforms material handling in industrial spaces with **intelligent precision and unmatched consistency.** As operations demand greater speed and safety, ForkOn delivers seamless automation in the movement of heavy palletized goods. This AI-powered forklift robot improves warehouse operations with smart movement, dependable lifting, and fully autonomous performance.

Benefits of ForkOn

Improved Material Handling Efficiency

- Transports palletized goods with consistent precision
- Speeds up internal logistics and goods movement
- Maintains smooth flow across storage and operational zones
- Reduces overall turnaround time in warehouse operations

Streamlined Industrial Operations

- Automates routine pallet handling tasks
- Reduces manual workload for staff
- Minimizes delays between production and dispatch
- Enables real-time oversight through smart connectivity

Enhanced Workplace Safety

- Built-in obstacle detection and safety sensors
- Prevents collisions in high-traffic environments
- Enables contactless transport in sensitive zones
- Ensures smooth, secure operation around people and assets.

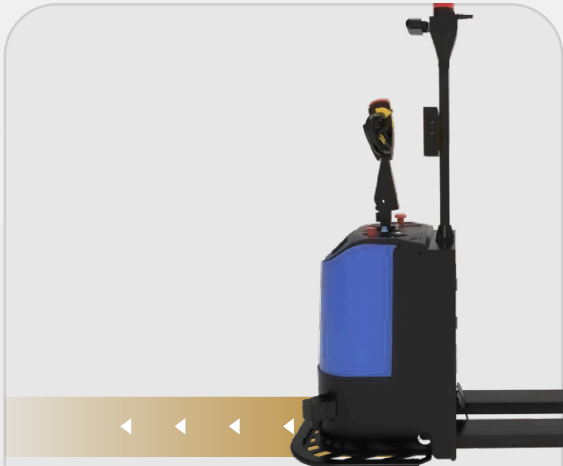### Optimized Warehouse Space Utilization

- Navigates narrow aisles with its ultra-compact fork arm
- Maximizes space in dense racking systems
- Reduces congestion during high-load operations
- Supports dynamic routing for multi-zone deliveries

Key Features

Up to 8 Hours Battery Life (Loaded)

ForkOn operates for up to 8 hours when carrying a load and up to 25 hours when unloaded. It returns to its charging station automatically when the battery is low. This feature supports continuous material movement and minimizes the need for manual intervention.

Elevator Integration

ForkOn features a built-in elevator control system that supports seamless cross-floor movement. This allows it to transport pallets between levels without human assistance, making it ideal for multi-storey warehouses and modern industrial facilities.

Smart Obstacle Avoidance

ForkOn uses laser navigation and intelligent sensors to detect and avoid obstacles in real time. This feature allows it to move safely through tight aisles and active work zones, ensuring smooth and secure pallet transport in every environment.

Centralized Control Dashboard

ForkOn's dashboard allows complete operational control. Monitor real-time location, assign tasks, view performance data, and manage activity remotely via app or desktop. The system improves visibility and simplifies decision-making across your facility.

Additional Features

- ⏻ Intelligent Power-Off System
- 🛜 Wi-Fi Connectivity
- ⌚ Smartwatch Integration
- 📱 Mobile App Control
- 👆 One-Touch Call Function
- 🖧 Elevator Integration

Warehouses & Distribution Centers

ForkOn transforms warehouse logistics by automating pallet movement, ensuring accurate handling, and maintaining consistent operations. Its smart navigation and real-time tracking bring precision and speed to inventory flow, helping warehouses scale efficiently while reducing manual labor.

Improved Inventory Flow
- Automated pallet transport
- Reduced handling time
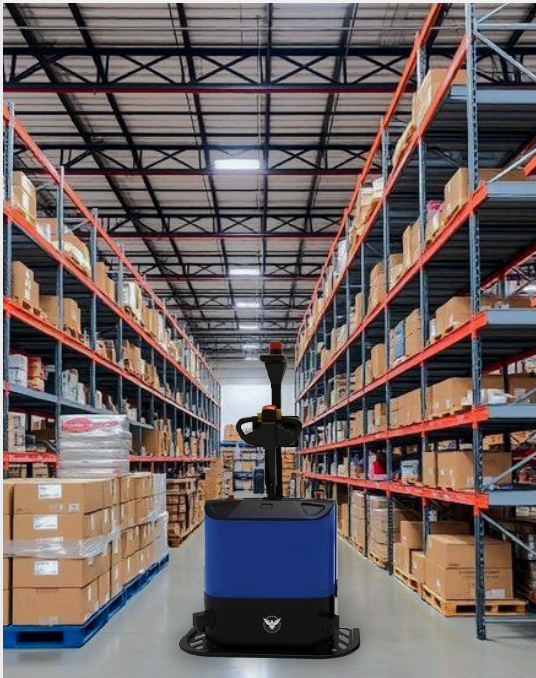- Streamlined goods movement

Operational Accuracy
- Smart route navigation
- Real-time load monitoring
- Minimized human error

Cost Efficiency
- Lower labor dependency
- Reduced idle time
- Increased equipment utilization

Enhanced Space Utilization
- Navigates narrow aisles
- Supports high-density storage
- Optimized floor space usage

Critical Features

Laser Navigation System	Obstacle Avoidance Sensors
1.5T Load Capacity	Automatic Self-Charging

Manufacturing Plants

ForkOn enhances manufacturing efficiency by automating the movement of raw materials, components, and finished goods between production stages. With real-time task control and reliable load handling, it supports uninterrupted workflows, better resource allocation, and optimized plant operations.

Streamlined Production Flow
- Moves goods between lines
- Reduces bottlenecks
- Maintains material supply

Workforce Optimization
- Minimizes manual handling
- Frees staff for skilled tasks
- Supports lean manufacturing

Process Consistency
- Timely delivery of materials
- Fewer delays or disruptions
- Reliable task execution

Safety Assurance
- Detects and avoids obstacles
- Operates in high-traffic zones
- Reduces workplace incidents

Critical Features

Centralized Task Scheduling	Real-Time Load Tracking
1.5T Load Capacity	Obstacle Avoidance Sensors

Logistics & Supply Chain Hubs

ForkOn optimizes logistics and supply chain operations through AI-powered automation and precise material handling. It ensures smooth pallet movement across storage zones, loading bays, and dispatch areas, improving turnaround time and operational accuracy throughout the supply chain.

Efficient Cargo Movement

- Automates pallet transport
- Reduces transfer delays
- Enhances loading & unloading speed

Operational Reliability

- Maintains consistent workflow
- Minimizes handling errors
- Supports 24/7 operations

Productivity Boost

- Reduces dependency on manual labor
- Increases task completion rate
- Enables faster order fulfillment

Data-Driven Oversight

- Tracks material movement in real time
- Provides actionable performance insights
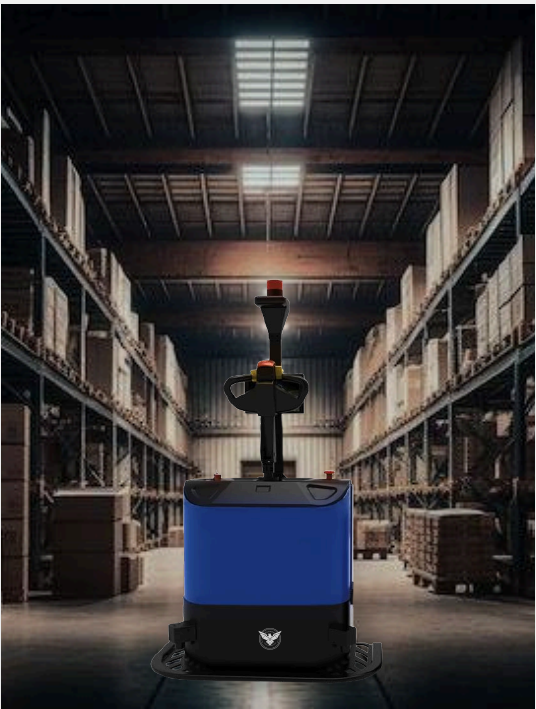- Supports route optimization decisions

Critical Features

Laser Navigation System	1.5T Load Capacity
Real-Time Load Tracking	Automatic Self-Charging

Freight & Cargo Terminals

ForkOn improves cargo terminal operations by automating the transport of heavy palletized goods. Its smart navigation, robust design, and integrated safety systems ensure efficient handling across busy terminals, keeping cargo flow steady even during high-demand periods.

Seamless Cargo Handling

- Automates loading and unloading
- Reduces manual strain
- Supports high-volume freight movement

Optimized Terminal Operations

- Maintains consistent freight flow
- Enables continuous task scheduling
- Enhances operational efficiency

Time-Saving Performance

- Speeds up cargo transfers
- Minimizes equipment downtime
- Improves turnaround accuracy

Safety-Focused Design

- Equipped with obstacle detection
- Includes emergency stop controls
- Operates safely in active environments

Critical Features

Obstacle Avoidance Sensors	1.5T Load Capacity
Elevator Integration	Emergency Stop Function

Experience the Future of Material Handling

Seamlessly manage your ForkOn fleet and warehouse operations from one centralized platform.

Admin Interface: Manage Your Warehouse Operations

Crafted for precision, the ForkOn admin dashboard brings every aspect of warehouse logistics into a single view. From real-time forklift tracking to task assignment and performance insights, this intelligent system ensures efficiency, visibility, and total operational control.

Centralized Fleet Dashboard	Live Load Tracking	Automated Task Scheduling	Performance Analytics & Reports	Zone & Route Management

Operator Interface: Streamlined Task Management

Empower your team to manage ForkOn operations with precision. Be it real-time load tracking or task assignment and route control, this intuitive interface drives efficiency and keeps every pallet in motion.
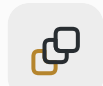
Live Forklift Tracking	Automated Task Assignment	ForkOn Configuration Controls	Route Optimization Tools	Load Queue Prioritization

Customer Interface: Effortless Oversight for Warehouse Operations

Crafted for precision, the ForkOn admin dashboard brings every aspect of warehouse logistics into a single view. From real-time forklift tracking to task assignment and performance insights, this intelligent system ensures efficiency, visibility, and total operational control.

Live Pallet Movement View	Task Completion Updates	Load Status Notifications	Quick Task Reassignment	Real-Time Error Alerts	Performance Overview Dashboard

Technical **Specifications**

Weight
450 kg (including battery)

1967mm
(H)

1729mm (L) ×
1126mm (W)

Particulars	Details	
Battery Type	LiFePO4 (Safe, heat-resistant)	Capacity: 48V / 30Ah
Charging & Runtime	Charging Time: Approx. 6 hours	Endurance: 8 hours (loaded), up to 25 hours (unloaded)
Obstacle Avoidance	3D Camera + LIDAR 60m Detection Range	
Navigation & Motion	Laser Navigation: ±10cm Accuracy	Speed: 0.1m/s to 1m/s
	Gyroscope: Single-axis	Motor Drive: 5.5" Hub Motor
Connectivity	Wi-Fi Support: Yes	Smartwatch, App, One-Touch Button Call Options
Call & Control Features	4 Call Methods: Smartwatch, Mobile App, Wi-Fi, One-Touch Button	Elevator Integration: Industry-exclusive
External Ports & Power	Input: AC110-240V, 50/60Hz	Charging Pile Output: 43.2V DC, 5A
Safety	Overcurrent protection, intelligent power-off	

Disclaimer