ADDVERB

Dynamo 1500

AUTONOMOUS MOBILE ROBOT

Addverb's intelligent Autonomous Mobile Robot, Dynamo 1500 transports material and goods up to 1500 kg within warehouses and factories. Dynamo is equipped with LiDAR sensors, computer vision, enabled with advanced safety sensors, and mapping technology that helps it to transport goods while detecting obstacles on the go without any human intervention.

Technical Specifications

General Specifications

Payload Capacity	1500 kg
Dimensions	1850 x 1305 x 365 mm
Weight	440 kg
Ground Clearance	30 mm

Speed and performance

Max Speed	1.5 m/s (empty)/ 1.2 m/s (loaded)
Turning Radius	Zero
Docking Accuracy	± 10 mm



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Speed and performance

Navigational Accuracy	± 20 mm
Operational Mode	Auto/Manual

Communication & Integration

Fleet Management Software	Yes
Integration with external conveyor	Yes
Integration with ERP	Yes
Wi-Fi Protocol & Frequency	(802.11 a/b/g/n/ac/ax, 2.4 GHz, 5 GHz)
5G Network Compatibility	Yes
IP Class	IP20

Safety

Sensors	Navigational LiDAR (2x Diagonal)
Audio and Visual	Buzzers, LED Lighting



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Safety

Optional Add-ons	3D LiDAR, 2D LiDAR (2 x Diagonal) for Low-height obstacle detection
Compliance	Passed in accordance with CE, ISO 3691-4, EN ISO 12100, EN 60204-1, EN 1175-1



Battery

Avg. Battery Run Time	3-5 Hours
Battery Specification	LTO, 48V, 22Ah
Charging Time	24 mins (0-80%) / 8 mins (20-80%)

Attachments & Accessories

Charging Dock	Fully Automatic Charging Station
Optional External Attachment	Pallet Lifter, Shelf Lifter, Trolley Tugger

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Key Benefits:

- Auto-localises itself from home position and executes the pre-defined mission without any human intervention
- Easily adaptable to changing warehouse environments unlike conveyors and forklifts
- Obstacle detection capabilities ensure safe operation
- Easy to install and operate
- Predictable time consumption, enables scheduling capabilities
- High operational accuracy levels

FEATURES

Autonomous Navigation

Dynamo uses advanced sensors and mapping technologies to navigate autonomously in dynamic and complex environments.

Fast Charging

Charges up to 80% from 20% in just 8 mins, optimising warehouse operations

Multi-Level Safety

Dynamo is equipped with multiple safety features, including obstacle detection, E-stop buttons, and automatic speed reduction in congested areas

Audio and Visual Alerts

Warning lights & audible warning signals while approaching a turn or an obstacle; alarm signal & alarm sound in case of an encounter

Fleet Management System

AI-powered - Fleet Management System to control several robots to complete the task efficiently

Remote Monitoring

Dynamo can be remotely monitored and controlled, allowing for real-time monitoring of operations and maintenance.

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