



## Product Overview

- **Fully Autonomous Operation** Navigate in complex environments and complete assigned tasks without requiring human intervention.
- **Advanced Precision Navigation** Powered by SAHA Simultaneous Localization and Mapping technology, our robots possess advanced spatial awareness.
- **Autonomous Charging** Our robots autonomously navigate to charging stations when the battery is low, ensuring they're always ready to serve.
- **Battery Life** All-Day Operation with an extended battery life, our robots can operate continuously, minimizing downtime and maximizing productivity.
- **360° Wide LiDAR Scan** Speedy Robots scan and map their surroundings with unparalleled accuracy, enabling safe and reliable operation in dynamic environments.
- **Suspension System** Designed with advanced suspension systems, our robots glide effortlessly over various surfaces, ensuring smooth and stable navigation.
- **Fleet and Traffic Management** Efficient coordination of multiple robots ensures seamless collaboration and optimized performance.
- **Up to 4 separate compartments with customizability** featuring obstruction detection and active locking mechanism. Lids resist forced opening when closed, ensuring secure delivery and tamper resistance.
- **Vertical Mobility** Supports elevator communication for autonomous multi-floor navigation and delivery tasks.
- **SAHA Remote Monitor** Analytics at Your Fingertips. You can easily oversee your robot's actions, analytics, and effectiveness from any location, ensuring you maintain peace of mind.



## General Specifications

Dimensions	525 x 525 x 1140 mm
Weight	60 Kg
Cruise Speed	0,6 - 1,1 m/s
Slope Angle	≤5°
Tray Count	2
Endurance	7 - 11 hours
Languages	Turkish, English, Spanish, German, French, Arabic

## Hardware

Materials	Composite and aluminum alloy
Sensors	2D Lidar, Stereo Vision Sensor, IMU
Sensor Coverage	Lidar detection range: 360°, ≤30 m Stereo Vision range: 87°(H) × 58°(V) ≤4 m
Positioning Method	Sensor Fusion with Lidar, Wheel Odometry and IMU
Wireless	Wi-Fi: 2.4 GHz Lora 868 Mhz or 900 Mhz (According to regulations)
Lid System	4× DC Gear Motors

## Power

Battery Type	LiFePO4 (Lithium iron phosphate)
Battery Capacity	30 Ah
Dismountable Battery	No
Charging Input	100-240V AC, 50/60Hz
Charging Time	2h 20m

## Environment

Maximum Coverage Area	160.000 m <sup>2</sup> (400 m x 400 m)
Operating Temperature and Humidity	0 - 40°C, RH: 20% - 80%
Operating Environment	Indoor environment, flat ground

# Compatible Accessories

Speedy Courier can be seamlessly integrated with a wide range of complementary systems and components to enhance its functionality and user experience:

- **IoT Controller Board:** Enables integration with turnstiles, automatic doors, and elevator systems for seamless access control in complex environments.
- **UWB Based Indoor Localization System:** Provides precise indoor positioning by detecting customer locations in dynamic seating areas such as food courts, ensuring accurate delivery to any table.
- **QR Menu Integration:** Allows customers to scan QR codes for placing orders, which the robot can then autonomously deliver.
- **POS System Integration:** Synchronizes with Point-of-Sale systems to streamline order processing, real-time status tracking, and payment coordination.
- **AI-Powered Assistant HeyHolo:** Elevates the dining experience with a voice-interactive holographic avatar that intelligently manages order workflows, supports upselling, and delivers a cutting-edge, contactless customer journey.