

AI Delivery Robot Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application

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Abstracts

AI Delivery Robot Market Summary

Introduction

AI delivery robots are autonomous systems designed to transport goods in confined environments like apartments, hotels, and hospitals, leveraging AI for navigation and efficiency. This industry is characterized by its focus on last-mile delivery, cost reduction, and contactless solutions, spurred by e-commerce and healthcare needs. Trends include advanced AI models and integration with urban logistics.

Market Size and Growth Forecast

The global AI delivery robot market was valued at USD 360 million to USD 550 million in 2024, with an estimated CAGR of 15.0% to 18.0% from 2025 to 2030, driven by automation and urban delivery demands.

Regional Analysis

North America grows at 14.0-17.0%, with the USA leading due to tech innovation; trends focus on e-commerce integration.

Europe sees a growth rate of 15.0-18.0%, driven by Germany and the UK; trends emphasize sustainable delivery.

Asia Pacific exhibits a growth rate of 16.0-19.0%, led by China and South Korea; trends

highlight high-density urban use.

The Rest of the World grows at 13.0-16.0%, with India emerging; trends focus on cost-effective logistics.

Application Analysis

Apartment grows at 15.0-18.0%, serving residential deliveries; trends favor compact designs.

Hotel grows at 14.5-17.5%, enhancing guest services; trends emphasize speed and discretion.

Hospital grows at 16.0-19.0%, supporting medical logistics; trends focus on hygiene and precision.

Key Market Players

Uber Technologies, from the USA, explores AI delivery for urban settings.

Amazon, based in the USA, develops robots for last-mile logistics.

Starship Technologies, headquartered in Estonia, focuses on sidewalk delivery robots.

TeleRetail, from Switzerland, offers AI-driven delivery solutions.

Nuro, based in the USA, specializes in autonomous delivery vehicles.

Porter's Five Forces Analysis

The threat of new entrants is moderate, with high tech barriers but strong market potential.

The threat of substitutes is moderate, as human delivery competes but lacks scalability.

Buyer power is moderate, with businesses seeking efficient solutions.

Supplier power is low, due to multiple tech providers.

Competitive rivalry is high, with firms advancing AI and autonomy.

Market Opportunities and Challenges

Opportunities

E-commerce growth boosts last-mile delivery needs.

Contactless delivery trends enhance adoption.

Urbanization drives demand for automated logistics.

Challenges

Regulatory hurdles slow deployment.

High development costs limit scalability.

Public acceptance varies across regions.

Merger and Acquisition News

Serve Robotics to Acquire Autocado Robot Maker Vebu (Date: October 2024): This expands Serve's automation capabilities, enhancing AI delivery robot offerings for diverse settings.

Symbotic Completes Acquisition of Walmart's Advanced Systems and Robotics Business (Date: November 2024): This strengthens Symbotic's AI delivery solutions, leveraging Walmart's retail logistics expertise.

Growth Trend Analysis

Serve Robotics' USD 80M investment, Vayu Robotics' AI-powered robot debut, and Avride's U.S. launch in 2024 signal a robust growth trend. These innovations support a projected CAGR of 15.0-18.0% through 2030, driven by urban delivery demands.

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