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The Global Autonomous Logistics Market 2027–2040: Mobile Robots, Delivery Robots, Drones and Driverless Trucks

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Abstracts

Autonomous logistics is fast becoming one of the most important layers of the global supply chain. Warehouses, factories, distribution centres, parcel networks, food-delivery platforms and freight carriers are under sustained pressure to move goods faster and more reliably while facing labour shortages, rising wages, volatile demand and growing fulfilment complexity. Mobile robots, autonomous delivery vehicles, drones and driverless trucks answer that pressure with automation that moves. Capacity can be added in increments, layouts can be changed in weeks rather than months, and many systems can be paid for as a service rather than bought outright.

The market spans every link in the logistics chain. Inside the warehouse, automated guided vehicles (AGVs), grid-based goods-to-person robots, autonomous mobile robots (AMRs) and autonomous forklifts transport goods. They are joined by case-handling robots, mobile manipulators, truck-unloading robots and inventory-scanning robots and drones. Beyond the warehouse, China’s unmanned delivery vehicles have reached fleets of tens of thousands, and sidewalk robots deliver food and groceries through platform partnerships. Delivery drones have passed millions of commercial deliveries. Level 4 autonomous trucks now haul freight without a driver on selected US highway routes.

These technologies sit on very different maturity curves. AGVs and AMRs ship in hundreds of thousands of units a year. Mobile manipulation, robovans outside China and driverless trucking are moving from early commercial deployment to fleet scale. Indoors, technology integration and return on investment are the main challenges; outdoors, regulation is the gating factor. City road rights govern delivery vehicles, beyond-visual-line-of-sight rules govern drones, and federal and EU frameworks govern

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autonomous trucks. China leads in unit volume and cost, with domestic manufacturers setting global price levels in AGVs, AMRs, autonomous forklifts and robovans. North America leads in driverless trucking, sidewalk robots, truck unloading and consumer drone delivery, and Europe is strong in intralogistics systems and safety certification. Falling costs for lidar, cameras, edge compute and batteries are widening the range of tasks that can be automated economically. So are advances in AI navigation and robot foundation models.

The Global Autonomous Logistics Market 2027–2040: Mobile Robots, Delivery Robots, Drones and Driverless Trucks report provides a comprehensive analysis of the mobile robots, autonomous vehicles and drones transforming logistics, warehousing and delivery. It covers intralogistics AGVs, AGCs, grid-based goods-to-person robots, AMRs and autonomous forklifts. It also covers case-handling robots, mobile manipulators, truck unloaders and inventory robots; robovans, autonomous delivery vehicles and sidewalk robots; delivery and cargo drones; and Level 4 autonomous trucks, middle-mile and yard automation. The report combines technology benchmarking, company and deployment tracking, regulatory analysis and bottom-up forecasts. It includes 257 tables, 103 figures and 205 company profiles, with data current to October 2026.

Report contents include:

Market definition and taxonomy: twelve robot and vehicle categories, mapped across the logistics value chain from first mile to last metre, with autonomy levels and commercial readiness.

Market drivers and economics: labour shortages, e-commerce growth, ROI and payback by robot type, cost per pick and per delivery, leasing and Robotics-as-a-Service, investment, funding and M&A from 2024 to 2026.

Enabling technologies: navigation and SLAM, lidar, cameras, radar and IMUs, AI and foundation models, compute, functional safety, fleet orchestration and interoperability (VDA 5050), connectivity and teleoperation, batteries and charging.

Intralogistics transport robots: product benchmarking by payload, speed and navigation, comparison with fixed automation, applications, and the competitive landscape.

Mobile picking and handling: case-handling robots, mobile manipulators, truck

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unloading, humanoids in logistics, and inventory robots and drones.

Ground last-mile delivery: China's robovan boom, sidewalk robots, operating economics, and regulation by country.

Delivery and cargo drones: aircraft designs, the FAA Part 108 BVLOS rule, regional commercialisation, case studies of Zipline, Wing and Meituan, and unit economics.

Level 4 autonomous trucks: hub-to-hub and driver-as-a-service models, OEM platforms, deployment status, total cost of ownership analysis and timelines.

Regulation and standards: ISO 3691-4, R15.08, the EU Machinery Regulation, the Cyber Resilience Act, AV laws, drone rules, and trade and security restrictions.

Regional and competitive analysis: North America, Europe, China, Japan and Korea and emerging markets; market structure, leading company revenues, IPOs and strategic positioning.

Market forecasts 2027–2040: revenue, unit sales and average selling prices by category, application group, region, end-use industry and business model, with conservative, base and optimistic scenarios.

Future outlook: technology roadmaps, convergence trends and strategic recommendations.

Company profiles: 205 companies across the value chain. Companies profiled include A2Z Drone Delivery, ABB Robotics, Accerion, ACSL, Addverb Technologies, Aeva, Agility Robotics, Agilox, Aitonomi (formerly TeleRetail), Amazon Prime Air, Amazon Robotics, Ambi Robotics, ANRA Technologies, Antwork Technology (Xunyi), Anyware Robotics, Applied Intuition, Apptronik, Arrive AI, Aurora Innovation, AutoStore, Aviant, Avride, Avy, BALYO, Bastian Solutions, BionicHive, BlueBotics, Boston Dynamics, Bot Auto, Brain Corp, Brightpick, Cainiao (Alibaba Group), Caja Robotics, Cartken, Clearpath Robotics / OTTO Motors, Clevon (now indiGO Europe), Coco Robotics, Corvus Robotics, Covariant, CreateAI (formerly TuSimple), Crown Equipment, Daifuku, Daimler Truck, DeepWay, Dematic, DEXA, Dexory, Dexterity, DJI, DoorDash (Dot / DoorDash Labs), Draganfly, Dronamics, DroneUp, DS Automotion, EHang,

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Einride, ek robotics (NEURA Mobile Robots), Elettric80, Elroy Air, Exotec, Fabric, Fernride, Flytrex, Formant, FORT Robotics, ForwardX Robotics, Fox Robotics, Gather AI, Gatik, Geek+ (Geekplus Technology), Gideon, Grenzebach, GreyOrange, HAI Robotics, Hesai Technology, Hikrobot, Hokuyo Automatic, Honeywell Intelligrated, Hyster-Yale, Hyundai Motor Group, Inceptio Technology, InOrbit, International Motors, inVia Robotics, Iplusmobot, ISEE, Isuzu Motors, JD Logistics, Jedsy, Jungheinrich, Kalmar and more.....

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