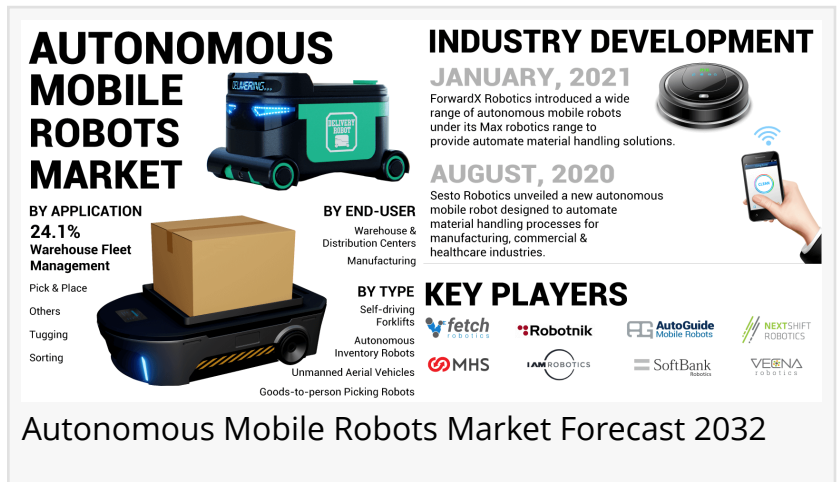


Autonomous Mobile Robots Market Growth Outlook: USD 1.97 Billion in 2021 to USD 8.70 Billion by 2028 at 23.7% CAGR

Key Companies covered in autonomous mobile robots market are Material Handling Systems., Fetch Robotics Inc., IAM Robotics, Stanley Robotics, Robotnik. & others

PUNE, MAHARASHTRA, INDIA, March 24, 2025 /EINPresswire.com/ -- Market Overview



The [global Autonomous Mobile Robots \(AMR\) market](#) was valued at USD 1.97

billion in 2021 and is projected to grow significantly to USD 8.70 billion by 2028, reflecting a robust CAGR of 23.7% over the forecast period. This growth is primarily driven by the increasing demand for automation in warehouses, manufacturing facilities, and logistics operations, as well as the rapid adoption of AI-enabled robotic solutions across various industries. North America

currently leads the market, with its strong focus on technological innovation and automation, while Europe and Asia Pacific are rapidly catching up due to rising industrial automation initiatives.



Europe dominated the autonomous mobile robots market with a share of 35.32% in 2020.”
Fortune Business Insights

Key Companies Profiled in the Autonomous Mobile Robots Market Report

- Material Handling Systems. (U.S.)
- Fetch Robotics, Inc. (U. S.)
- IAM Robotics (U. S.)
- NextShift Robotics (U.S.)
- Stanley Robotics (U.S.)
- Robotnik. (Spain)
- SESTO Robotics. (Singapore)
- HAHN Robotics GmbH (Germany)

- Vecna Robotics (U.K.)
- AutoGuide Mobile Robots (England)
- SoftBank Robotics (France)

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Segmentation Insights

By Type:

The market is segmented into various types based on mobility and design features. Key categories include:

- Wheeled AMRs: Dominating the market due to their efficiency in logistics and material handling.
- Legged and Hybrid AMRs: Emerging segments driven by applications requiring enhanced navigational capabilities in complex environments.

By Application:

The deployment of autonomous mobile robots spans a diverse range of applications:

- Warehouse & Logistics: Leading the adoption curve as businesses strive to optimize inventory management and distribution.
- Manufacturing: Automation in production lines for increased operational efficiency.
- Healthcare & Hospitality: Enhanced service delivery in hospitals, hotels, and retail through contactless and on-demand delivery solutions.
- Others: Applications in agriculture, defense, and consumer services are also witnessing steady growth.

By End-User Industry:

- Industrial & Manufacturing
- Retail & E-commerce
- Healthcare
- Transportation & Logistics
- Others

Drivers and Restraints

Drivers:

- Rapid Automation & Digital Transformation: The increasing need for automation in

warehousing and production facilities to overcome labor shortages and enhance efficiency.

- **Technological Advancements:** Significant improvements in artificial intelligence, machine learning, and sensor technology that bolster the capabilities of AMRs.
- **Enhanced Operational Efficiency:** AMRs offer streamlined operations with reduced human error and increased safety in complex environments.
- **COVID-19 Impact:** Accelerated adoption of contactless operations and robotics solutions to maintain social distancing norms in various sectors.

Restraints:

- **High Initial Investment:** The cost associated with procuring and integrating AMR systems can be a barrier for small and medium-sized enterprises.
- **Complex Integration Processes:** Challenges related to integrating autonomous systems with existing legacy infrastructure and IT systems.
- **Regulatory and Safety Concerns:** Compliance with evolving safety and operational standards may slow market adoption in certain regions.

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Regional Insights

- **North America:** Dominates the global market, driven by continuous investments in advanced automation and a strong industrial base. The region is noted for early adoption and rapid deployment of AMRs in warehousing and manufacturing sectors.
- **Europe:** Exhibits substantial growth, buoyed by a focus on smart manufacturing and robotics initiatives across countries like Germany, France, and the U.K.
- **Asia Pacific:** The fastest-growing region owing to expanding industrialization, increasing e-commerce activities, and robust governmental support for technological innovation in countries like China, Japan, and South Korea.
- **Rest of the World:** Regions such as South America and the Middle East & Africa are gradually embracing AMR solutions as they enhance their digital transformation strategies.

Competitive Landscape

The market is highly competitive with key players continually innovating and expanding their product portfolios. Companies are actively engaging in mergers, acquisitions, collaborations, and strategic partnerships to bolster their market presence and technological capabilities.

Recent Industry Developments:

- **Innovative Product Launches:** Companies like Omron and KUKA have recently unveiled next-generation AMRs equipped with advanced sensor suites and improved AI capabilities to further

enhance operational efficiency.

- Strategic Collaborations: Partnerships between leading robotics firms and technology providers are on the rise, aimed at integrating IoT and cloud-based solutions for better fleet management and data analytics.
- Global Expansion: Key players are expanding their geographic footprint through new regional offices and localized support centers to cater to the growing demand in emerging markets.

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