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Inventory Robots Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 to 2032

https://marketpublishers.com/r/I32F352A3AE7EN.html
Date: October 2024
Pages: 160
Price: US$ 4,365.00 (Single User License)
ID: I32F352A3AE7EN

Abstracts

The Global Inventory Robots Market, valued at USD 4.17 billion in 2023, is set to grow at an impressive CAGR of 18.2% from 2024 to 2032. This growth is largely driven by the expanding e-commerce sector, which requires efficient inventory management solutions to meet rising customer demands for quick and reliable service. As online shopping becomes more popular, the need for automated systems that enhance stock accuracy and streamline order fulfillment is increasing. Inventory robots are central to this trend, providing improved accuracy, reduced errors, and faster processing times, making them essential tools for modern warehouses. In addition to e-commerce expansion, skilled labor shortage prompt businesses to investigate automation solutions such as inventory robots.

With fewer workers available and rising labor costs, companies increasingly turn to robots to handle repetitive and physically demanding tasks. By automating inventory management, businesses help maintain productivity levels while allowing human employees to focus on more complex, value-added activities, which ultimately boosts organizational performance. Advancements in artificial intelligence (AI), machine learning, and robotics are propelling the functionality of inventory robots to new heights. Innovations in sensor technology, navigation algorithms, and data analytics enable these robots to perform increasingly sophisticated tasks with high accuracy.

As technology evolves, inventory robots are becoming more efficient at managing stock, forecasting inventory needs, and integrating seamlessly with other systems. These advancements make them invaluable assets in diverse industries seeking to optimize inventory processes. The market is segmented by operation type, with autonomous robots accounting for the largest market share at 53.9% in 2023. These robots leverage AI and machine learning to navigate and manage inventory with minimal human

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oversight, offering significant benefits such as real-time tracking, automated restocking, and enhanced accuracy. As the technology continues to develop, the demand for these robots is anticipated to grow, driven by the need for improved warehouse efficiency.

In terms of mobility, the mobile robots segment is projected to be the fastest-growing, with a CAGR of 18% through 2032. Mobile robots, equipped with advanced sensors and AI, can navigate complex warehouse environments autonomously, reducing the need for human intervention. Their adaptability allows them to efficiently manage inventory, fulfill various tasks, and lower operational costs. North America held the largest market share at 33% in 2023 and is expected to maintain its lead, thanks to a strong emphasis on automation and innovation. Meanwhile, China is rapidly expanding its inventory robot market, driven by government initiatives and a booming e-commerce landscape, offering ample opportunities for manufacturers and service providers.

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Contents

Report Content

CHAPTER 1 SCOPE & METHODOLOGY

1.1 Market scope & definition
1.2 Base estimates & calculations
1.3 Forecast parameters
1.4 Data sources
  1.4.1 Primary
  1.4.2 Secondary
    1.4.2.1 Paid sources
    1.4.2.2 Public sources

CHAPTER 2 EXECUTIVE SUMMARY

2.1 Industry 360° synopsis, 2021 - 2032

CHAPTER 3 INDUSTRY INSIGHTS

3.1 Industry ecosystem analysis
3.2 Vendor matrix
3.3 Technology & innovation landscape
3.4 Patent analysis
3.5 Key news and initiatives
3.6 Regulatory landscape
3.7 Impact forces
  3.7.1 Growth drivers
    3.7.1.1 E-commerce surge fuels demand
    3.7.1.2 Labor shortages accelerate automation adoption
    3.7.1.3 Technological innovations enhance capabilities
    3.7.1.4 Cost efficiency and ROI
    3.7.1.5 Enhanced operational efficiency
  3.7.2 Industry pitfalls & challenges
    3.7.2.1 High initial investment costs
    3.7.2.2 Integration and compatibility challenges
3.8 Growth potential analysis
3.9 Porter’s analysis

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3.9.1 Supplier power
3.9.2 Buyer power
3.9.3 Threat of new entrants
3.9.4 Threat of substitutes
3.9.5 Industry rivalry
3.10 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2023

4.1 Company market share analysis
4.2 Competitive positioning matrix
4.3 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY MOBILITY, 2021 - 2032 (USD MILLION)

5.1 Key trends
5.2 Stationary robots
5.3 Mobile robots

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY OPERATION TYPE, 2021 – 2032 (USD MILLION)

6.1 Key trends
6.2 Autonomous
6.3 Semi-autonomous
6.4 Teleoperated

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY PAYLOAD CAPACITY, 2021 – 2032 (USD MILLION)

7.1 Key trends
7.2 Light duty (Below 10 kg)
7.3 Medium-duty (10-100 kg)
7.4 Heavy-duty (Above 100 kg)

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY APPLICATION, 2021 – 2032 (USD MILLION)

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8.1 Key trends
8.2 Scanning and data collection
8.3 Picking and sorting
8.4 Pallet and heavy load moving
8.5 Shelf auditing and replenishment

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY END USE INDUSTRY, 2021 – 2032 (USD MILLION)

9.1 Key trends
9.2 Retail
9.3 E-commerce
9.4 Manufacturing
9.5 Healthcare and pharmaceuticals
9.6 Automotive
9.7 Food and beverage
9.8 Others

CHAPTER 10 MARKET ESTIMATES & FORECAST, BY REGION, 2021 - 2032 (USD MILLION)

10.1 Key trends
10.2 North America
  10.2.1 U.S.
  10.2.2 Canada
10.3 Europe
  10.3.1 UK
  10.3.2 Germany
  10.3.3 France
  10.3.4 Italy
  10.3.5 Spain
  10.3.6 Rest of Europe
10.4 Asia Pacific
  10.4.1 China
  10.4.2 India
  10.4.3 Japan
  10.4.4 South Korea
  10.4.5 ANZ
  10.4.6 Rest of Asia Pacific

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10.5 Latin America
10.5.1 Brazil
10.5.2 Mexico
10.5.3 Rest of Latin America
10.6 MEA
10.6.1 UAE
10.6.2 Saudi Arabia
10.6.3 South Africa
10.6.4 Rest of MEA

CHAPTER 11 COMPANY PROFILES

11.1 Aethon, Inc.
11.2 AutoStore AS
11.3 Clearpath Robotics Inc.
11.4 ForwardX Robotics, Inc.
11.5 Geek+ Robotics Co., Ltd.
11.6 GreyOrange Pte. Ltd.
11.7 Hikrobot Co., Ltd.
11.8 inVia Robotics, Inc.
11.9 Locus Robotics
11.10 MetraLabs GmbH
11.11 OMRON Corporation
11.12 Onward Robotics
11.13 PAL Robotics S.L.
11.14 Quicktron Intelligent Technology Co., Ltd.
11.15 Robotnik Automation S.L.L.
11.16 Scallog SAS
11.17 Swisslog AG
11.18 Teradyne, Inc.
11.19 Zebra Technologies Corp.

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