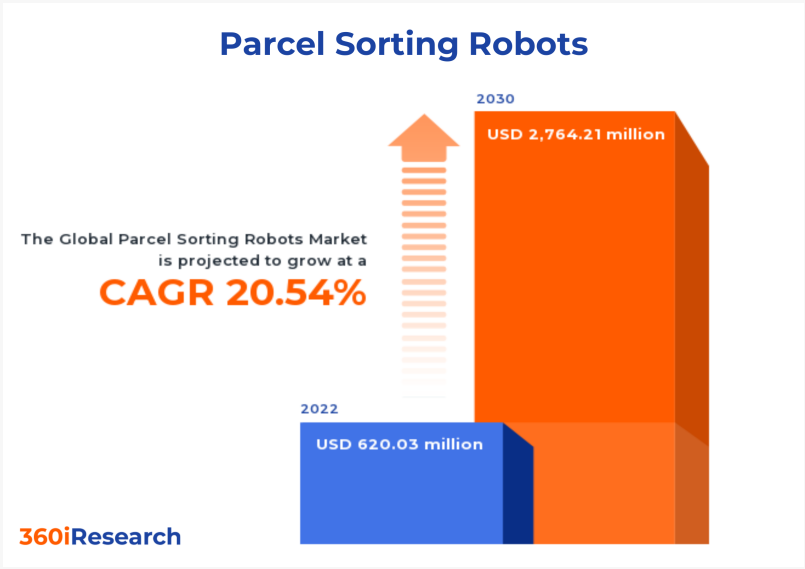
Parcel Sorting Robots Market worth $2,764.21 million by 2030 - Exclusive Report by 360iResearch

The Global Parcel Sorting Robots Market to grow from USD 620.03 million in 2022 to USD 2,764.21 million by 2030, at a CAGR of 20.54%.



Parcel Sorting Robots Market - Exclusive Report by 360iResearch

PUNE, MAHARASHTRA, INDIA, November 17, 2023 / EINPresswire.com/ -- The "Parcel Sorting Robots Market by Product (Articulated Robotic Arms, Autonomous Mobile Robots (AMRs)), Type (Autonomous, Non-Autonomous or Guided), Application, Distribution Channel - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.

The Global Parcel Sorting Robots Market to grow from USD 620.03 million in 2022 to USD 2,764.21 million by 2030, at a CAGR of 20.54%.

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Parcel sorting robots are designed to streamline and automate the process of sorting various types of parcels within warehouse settings or sorting facilities, improving both speed and efficiency. These robots can recognize and process vast amounts of information-packed bar codes, QR codes, or labels as they are enabled with advanced artificial intelligence (AI) and computer vision technology. The surge in e-commerce activities, the necessity for faster and error-free operations, and increasing interest in automation across end-use industries encourage the adoption of parcel sorting robots by the end-use sectors. However, high initial investment, cost of maintenance, and the requirement of skilled professionals to operate sophisticated robots may adversely impact the use of parcel sorting robots for various end-use applications. Moreover, advancements in AI and machine learning, coupled with the

development of more sophisticated and agile robots, offer immense growth opportunities for the parcel sorting robots market.

Type: Proliferating demand for autonomous parcel sorting robots
Autonomous Parcel Sorting Robots Autonomous parcel sorting robots are engineered with advanced artificial intelligence and machine learning technologies. These robots can learn, adapt, and make decisions independently, making them highly efficient and effective in dynamic operational environments. They offer numerous advantages, such as improved workflow, higher productivity, reduced manual labor, and minimization of errors. The Non-Autonomous or guided robots, unlike their autonomous counterparts, require human intervention for operation. However, they are nonetheless effective, notably in repetitive tasks and ensuring precision in sorting parcels. They make it quicker and easier to sort a large number of packages, reducing manpower and operational costs. For complex, unpredictable, and dynamic operations, autonomous robots are preferred for their ability to learn and adapt. On the other hand, for consistent processes where precision and speed are the primary concerns, non-autonomous or guided robots are more suitable.

Product: Significant penetration of articulated robotic arms
Articulated Robotic Arms are sophisticated machines with a structural layout similar to a human arm, with rotational joints from base to end-effector. They are preferred in environments requiring flexibility, high-speed operation, and increased precision. Articulated robotic arms have a broad range of applications, from painting and pick-and-place operations to palletizing goods. Autonomous Mobile Robots (AMRs) are intelligent machines that execute tasks in an unstructured environment without continuous human guidance. They can handle sorting tasks more safely and can work in place of or in conjunction with other systems. Direct Sorting Mobile Robots are designed with advanced capabilities for sorting parcels directly onto conveyor belts or transport carts. They eliminate the need for manual sorting, drastically reducing human error and increasing operational efficiency. Elevated Mobile Robots are engineered to transport and place parcels on elevated platforms, such as shelves or racks, beyond human reach. These robots integrate cutting-edge altitude control technology to safely and accurately identify parcels at various heights. Platform-based Mobile Robots serve as moving platforms to transport heavy or bulk parcels within warehouse facilities. These robots typically feature robust load-bearing platforms and smooth navigation capabilities. Articulated robotic arms handle small parcels more efficiently and occupy lesser floor space; AMRs are known for their safety standards and ability to cover larger areas of sorting operations.

Distribution Channel: Evolving utilization of original equipment manufacturers (OEM) distribution channels for parcel sorting robots
The aftermarket distribution channel for parcel sorting robots offers a responsive solution for businesses keen to augment their existing infrastructure. It delivers high adaptability in terms of machinery upgrades and servicing requirements. Original equipment manufacturers (OEM) distribution channel is preferred by large-scale corporations that seek fully customized, integrated solutions built from the ground up. Aftermarket serves an immediate need with quick

implementation and flexibility in upgrading current infrastructures, whereas OEM is optimized for businesses requiring customized solutions tailored to specific operational needs. Aftermarket channels can cater to budget restrictions and short-term requirements, while OEM provides a long-term strategic approach with comprehensive system integration.

Application: Expanding use of parcel sorting robots in logistics & warehousing
Parcel sorting robots have gained major importance in the food and beverage industry, particularly in the handling of perishable goods. The demand for accuracy and efficiency primarily drives the need for parcel-sorting robots in logistics and warehousing. The manufacturing sector also heavily relies on these robots for precision and to improve productivity. Parcel sorting robots are crucial in the medical and pharmaceutical sectors due to their capability to handle sensitive and valuable items. The retail sector has seen a rise in demand for parcel sorting robots due to the rapidly expanding eCommerce sectors. The preference for parcel sorting robots varies based on the needs within each sector. The need for handling delicate items drives demand in the food & beverage and medical industries; speed and efficiency are the key motivators for adoption in logistics, manufacturing, and retail.

Regional Insights:
The parcel sorting robots market is evolving in the Americas owing to the high pace of industrial automation adoption and the flourishing e-commerce industry in these regions, driving the need for enhanced logistics systems where parcel sorting robots play a crucial role. In the EMEA region, there is a growing emphasis on streamlining logistic processes, resulting in increased deployment of parcel sorting robots in warehouses to increase productivity and reduce human error. Rapid expansion of the manufacturing sector and significant demand for automation technologies. have encouraged the adoption of parcel-sorting robots by the end-use sectors in the APAC region. Besides, technological breakthroughs to enhance the operational efficiency of parcel sorting robots are expected to boost their use by the end-use industries worldwide.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Parcel Sorting Robots Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Parcel Sorting Robots Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and

amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the Parcel Sorting Robots Market, highlighting leading vendors and their innovative profiles. These include Ambi Robotics Inc., Bastian Solutions, LLC, Cimcorp Oy by Murata Machinery, Dematic Corp., Fetch Robotics, Inc., Fives SAS, Geekplus Technology Co., Ltd., Grey Orange Pte. Ltd., Hi-tech Robotic Systemz Ltd., Hitachi, Ltd., inVia Robotics, Inc., KUKA AG, Magazino GmbH, MOV.AI Ltd., Onward Robotics, OPEX Corporation, Prime Vision B.V., RightHand Robotics, Inc., Seegrid Corporation, Siemens AG, Starship Technologies, Inc., Unbox Robotics Pvt. Ltd., Vanderlande Industries B.V., WuXi AppTec Co., Ltd., Yaskawa Electric Corporation, and Zhejiang Libiao Robotics Co., Ltd..

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Market Segmentation & Coverage:

This research report categorizes the Parcel Sorting Robots Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Product, market is studied across Articulated Robotic Arms and Autonomous Mobile Robots (AMRs). The Autonomous Mobile Robots (AMRs) is further studied across Direct Sorting Mobile Robots, Elevated Mobile Robots, and Platform-based Mobile Robots. The Articulated Robotic Arms is projected to witness significant market share during forecast period.

Based on Type, market is studied across Autonomous and Non-Autonomous or Guided. The Autonomous is projected to witness significant market share during forecast period.

Based on Application, market is studied across Food & Beverages, Logistics & Warehousing, Manufacturing, Medical & Pharmaceuticals, and Retail. The Food & Beverages is projected to witness significant market share during forecast period.

Based on Distribution Channel, market is studied across Aftermarket and OEM. The OEM is projected to witness significant market share during forecast period.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South

Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Europe, Middle East & Africa commanded largest market share of 38.28% in 2022, followed by Americas.

Key Topics Covered:

The report provides insights on the following pointers:
1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:
1. What is the market size and forecast of the Parcel Sorting Robots Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Parcel Sorting Robots Market?
3. What is the competitive strategic window for opportunities in the Parcel Sorting Robots Market?
4. What are the technology trends and regulatory frameworks in the Parcel Sorting Robots Market?

5. What is the market share of the leading vendors in the Parcel Sorting Robots Market?
6. What modes and strategic moves are considered suitable for entering the Parcel Sorting Robots Market?

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