India Smart Warehousing Market Assessment, By Component [Hardware, Solutions, Services] By Deployment [Cloud, On-premises], By Warehouse Size [Small, Medium, Large], By Technology [IoT, Robotics and Automation, AI and Analytics, Networking and Communication, AR and VR, Others], By Application [Inventory Management, Order Fulfillment, Asset Tracking, Predictive Analytics, Others], By Vertical [Transportation and Logistics, Retail and E-Commerce, Manufacturing, Healthcare and Life Sciences, Energy and Utilities, Automotive, Food and Beverages, Others] By Region, Opportunities and Forecast, FY2018-FY2032F

Market Report | 2024-11-27 | 130 pages | Market Xcel - Markets and Data

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Report description:

India smart warehousing market is projected to witness a CAGR of 14.65% during the forecast period FY2025-FY2032, growing from USD 2.21 billion in FY2024 to USD 6.60 billion in FY2032. India smart warehouse market is experiencing tremendous growth, due to the rapid adoption of technology and the growing driving force for the demand for effective supply chain solutions. With the continuous expansion of e-commerce, the company invests in automated storage systems to improve inventory management and optimize logistics operations. Innovations in technologies such as robotics, IoT devices, and artificial intelligence have completely changed traditional storage practices to achieve real-time tracking and improve accuracy. The government has further contributed to the expansion of this market to strengthen production fields and startup companies that focus on logistics technology. The smart warehouse market is expected to witness significant growth in the coming years with the rise of domestic

and international players. Challenges such as the need for skilled labor and initial investment costs are being addressed through training programs and public-private partnerships. The combination of technological advancements, growing consumer expectations, and supportive government policies are positioning India as a key player in the global smart warehousing market, paving the way for a more integrated and efficient logistics ecosystem.

In May 2024, Seino Holdings Co. Ltd. entered the Indian market through a partnership with Mahindra Logistics Limited to offer integrated logistics solutions tailored for Japanese automotive and strategic non-auto customers. This joint venture will leverage Seino's global ties and Mahindra's extensive network to provide services, such as Auto Outbound, warehousing, transportation, and advanced technology solutions. With India's automotive sector rapidly growing and focusing on initiatives such as Make in India and electric vehicles, this partnership aims to enhance logistics efficiency and sustainability in the region.

E-commerce to Fuel the Smart Warehousing Market Growth

India smart warehouse market has experienced significant growth, mainly due to the development of electronic commercial trading department. As online purchases are becoming increasingly popular, the demand for effective and scalable logistics solutions is increasing. Smart warehouses with advanced technologies such as automation, artificial intelligence, and data analysis can optimize inventory management, reduce delivery time, and increase efficiency. These technologies provide surveillance and accuracy and help consumers' expectations for quick and trusted services. Moreover, the integration of smart technologies supports cost-effective warehousing solutions and helps businesses adapt to changing market demands.

E-commerce is expanding rapidly in India due to rising internet penetration and changing consumer behavior due to which the smart warehousing market is expected to witness growth and establish itself as a key component of the logistics and supply chain ecosystem.

In August 2024, Mahindra Logistics partnered with Sangti Solutions to enhance carbon reduction in its supply chain through an emission focused technical collaboration. The initiative is aligned with Mahindra's goal of achieving carbon neutrality by 2040 and supports India's broader sustainability efforts. By providing an extended analysis of the problem using the practical SaaS platform, cooperation aims to optimize logistics operations in various sectors, including car and electronic commerce. This step increases the effectiveness of the operation and contributes to green practices in logistics, which is necessary for the growth of the smart warehousing market in India. As businesses increasingly seek sustainable solutions, this partnership positions Mahindra Logistics as one of the leaders, integrating technology and sustainability, driving the demand for eco-friendly warehousing solutions in the country.

Technology and Automation to Drive Market Growth

The growth of India smart warehousing market is largely driven by advancements in technology and automation. For efficient supply chain management companies are using automated systems, such as robotics, IoT devices, and AI-powered analytics, to optimize inventory management and streamline operations. These technologies improve instant tracking, reduce human error, and improve overall efficiency, resulting in faster response times to market fluctuations. The government's initiatives to promote digital infrastructure and logistics parks have given further impetus to the development of the industry. The growth of e-commerce has accelerated the demand for smart warehouses that can handle high volumes of inventory. As companies are increasingly recognizing the importance of scalability and flexibility in their logistics operations, the integration of advanced technology in the warehouse has become crucial with India's position to grow as a center of smart logistics solutions. The integration of technology and logistics drives market growth and innovation throughout the supply chain.

In January 2024, Mahindra Logistics Limited (MLL) is set to establish a 6.5 lakh sq. ft. multi-client warehousing facility in Phaltan, Maharashtra, with the first phase of 3.5 lakh sq. ft. expected to be operational by the end of 2024. This strategic facility will serve auto and engineering customers, enhancing MLL's integrated logistics network and acting as a national logistics center for a key manufacturing client. Designed with sustainability in mind, it will incorporate renewable energy and green warehousing standards while creating over 500 jobs through skill development initiatives. This investment of Rs. 170 crores reflects MLL's commitment to advancing smart warehousing solutions, which will drive efficiency and service levels, meet rising demand, and contribute to the growth of the smart warehousing market by integrating advanced technologies and sustainable practices.

The Cloud Segment to Dominate the Smart Warehousing Market Share

The cloud segment dominates the share of India smart storage market due to its scalability, cost-effectiveness, and instant access to data. With cloud solutions, businesses can easily adapt their operations to fluctuations in demand, which is critical to handling

peak load periods, especially in the e-commerce space. Reduced need for large upfront investments allows companies to optimize costs while benefiting from improved collaboration and integration with existing systems such as ERP and CRM. In addition, the cloud platform facilitates improved inventory management through built-in analytics and automation tools, streamlining operations and increasing overall efficiency. With strong security measures and disaster recovery capabilities, cloud solutions ensure data protection and business continuity. This combination of flexibility, efficiency, and security makes cloud storage solutions increasingly attractive to dominate the rapidly growing Indian market.

In August 2024, TVS Supply Chain Solutions Limited signed a three-year contract with JCB India to manage warehouses and logistics at the Vadodara factory. This partnership provides a complete warehouse management service and advanced technologies based on the cooperation of more than 20 years. TVS SCS, with around 110 employees, streamlines processes from unloading to feed-in. This collaboration not only strengthens TVS SCS's market position but also contributes to the growth of the smart warehousing market in India by showcasing efficient logistics solutions that leverage technology and skilled manpower, ultimately driving innovation and operational excellence in supply chain management.

Southern India to Dominate Smart Warehousing Market Share

Southern India is increasingly dominating the smart warehousing market due to strong growth in the e-commerce and technology sectors. Cities such as Bengaluru and Chennai are important logistics hubs and benefit from well-developed infrastructure, including major highways ports and airports which facilitate efficient supply chain operations. The region's emphasis on technological innovation has fueled the adoption of automated warehouse solutions and cloud-based platforms leading to improved warehouse management and operational efficiency. The presence of several technology companies has fostered a culture of automation and smart solutions. The growth of the market with rising consumer demand and retail landscape, along with Southern India's strategic location and strong infrastructural support make it a central location for smart warehousing investments in regional and national logistics, positioning the region as a dominating segment of the smart warehousing market.

In January 2023, TVS Supply Chain Solutions expanded its warehousing capacity in India by adding 650,000 sq. ft. of ultra-modern space in Hosur, increasing its total capacity from 21.2 to 21.85 million sq. ft. This new facility, inaugurated by TVS Motor Company executives, has created 1,200 jobs, including 300 for women. The warehouse is equipped with advanced automation and IT systems, enhancing service capabilities and supporting the company's Global Parts Distribution Centre. TVS SCS emphasizes customer centricity, process excellence, and diversity in its operations, reflecting these values in the new facility's workforce and offerings, which include various storage solutions and advanced technology.

Future Market Scenario (FY2025 – FY2032F)

- Increasing adoption of robotics, AI, and IoT will enhance operational efficiency and accuracy. Automated picking systems, drones for inventory management, and smart tracking solutions are expected to become a standard.
- The surge in e-commerce will drive the need for strategically located smart warehouses that can facilitate faster last-mile deliveries. Micro-fulfilment centres may emerge in urban areas to meet consumer demand efficiently.
- There will be a strong emphasis on sustainability, with warehouses adopting eco-friendly practices such as energy-efficient systems, solar power, and waste reduction initiatives, appealing environmentally conscious consumers and businesses.
- Advanced data analytics and AI will enable predictive analytics for inventory management and optimizing supply chain operations. Businesses will leverage big data to accurately forecast demand, streamline operations, and reduce costs.

Key Players Landscape and Outlook

India smart warehousing market has witnessed important innovation to adopt advanced technology, increase efficiency, and reduce costs. Major players use robot engineering and AI systems to invest in automate, streamline, and optimize inventory management, and speed up orders. Businesses are integrating Internet of Things devices for real-time tracking and monitoring to improve data analysis and decision-making. Companies are focusing on sustainable practices introducing energy-efficient solutions and eco-friendly packaging to address growing environmental issues. Logistics startups and collaboration with technical companies are becoming more common, promoting innovation and agility culture. The company guarantees the skills of employees through training programs and ensure that employees ensure the ability to effectively manage advanced technologies. The rise of e-commerce is driving demand for smarter storage solutions, pushing companies to expand their infrastructure and use cloud computing platforms for scalability and flexibility. By prioritizing technology integration, sustainability, and talent development, smart warehousing companies in India are positioning themselves to succeed in a competitive environment,

ultimately increasing customer satisfaction and operational resilience.
In January 2024, Mahindra Logistics Limited has expanded its multi-client warehousing capacity in Nashik, Maharashtra. Unveiling a 100,000 sq. ft. extension and announcing a new 300,000 sq. ft. facility bringing its total to 500,000 sq. ft. the largest in Nashik. This expansion enhances its pan-India logistics network and will support automotive engineering and consumer durables sectors with technology-enabled solutions. The facilities strategically located for efficient logistics will feature sustainable designs, including renewable energy sources and green cement flooring. The company plans to invest approximately USD 12 million and create over 300 local jobs with the new facility set to be operational by the end of Q3 2024.

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