

Robot Controller, Integrator and Software Market by Type (Controller, Integrator, & Software), Industrial (Articulated, COBOT, SCARA, Cartesian), Service (AGV, AMR, Medical), Software (Predictive Maintenance) Industry and Region - Global Forecast to 2028

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Abstracts

The global robot controller, integrator, and software market was valued at USD 6.3 billion in 2023 and is estimated to reach USD 12.5 billion by 2028, registering a CAGR of 14.8% during the forecast period. The increasing demand for industrial automation and technological advancements in electrical and electronics, automotive and e-commerce, and logistics industries are driving the growth of the robot controller, integrator, and software market. The rising collaboration between robot manufacturers and integrators owing to the need to integrate artificial intelligence, machine learning, and IoT capabilities into robotic systems to amplify their capabilities require advanced robot controller, integrator, and software.

“Recognition software segment is expected to account for the largest market size during the forecast period.”

The recognition software segment is expected to account largest market share in the robot controller, integrator, and software market. Recognition software in robotics serves a crucial need by enabling robots to perceive and interpret their environment, objects, and even humans. This technology, which includes image and video processing, machine learning, and computer vision algorithms, equips robots with the ability to recognize patterns, shapes, colors, textures, and even complex objects. This recognition capability allows robots to navigate their surroundings, identify objects for

manipulation, interact with humans, and perform tasks with more autonomy and accuracy. In manufacturing, logistics, and healthcare industries, recognition software enables robots to sort items, pick and place objects, assist in surgeries, and engage in collaborative tasks with human workers.

“Collaborative robots from the industrial segment are projected to have the highest growth rate in the robot controller, integrator, and software market.”

Continuous advancements in artificial intelligence, machine learning, and sensor technologies are driving the ongoing development of collaborative robots. These advancements enable cobots to become more intelligent, adaptable, and skilled in handling complex tasks. As industries increasingly seek flexible automation solutions, cobots are set to revolutionize work environments, shaping the future of work and enhancing overall productivity and efficiency. These trends are fueling the demand for cobots in the robot controller, integrator, and software market.

“China is projected to dominate in Asia Pacific region for robot controller, integrator and software market.”

Due to several factors, China has the largest market share in the robot controller, integrator, and software market. China has established itself as a global manufacturing hub known for its cost-effective production capabilities and large-scale manufacturing infrastructure. According to the International Federation of Robotics, China's substantial investments in industrial robotics have led to the country surpassing the United States in terms of robot density for the first time. China's manufacturing expertise and economies of scale enable competitive pricing and high-volume production, attracting domestic and international customers.

In-depth interviews have been conducted with chief executive officers (CEOs), Directors, and other executives from various key organizations operating in the robot controller, integrator, and software marketplace.

By Company Type: Tier 1 – 25%, Tier 2 – 35%, and Tier 3 – 40%

By Designation: C-level Executives – 35%, Directors – 25%, and Others – 40%

By Region: North America– 20%, Europe – 25%, Asia Pacific– 45%, and RoW- 10%

ABB Ltd(Switzerland), FANUC(Japan), Yaskawa Electric (Japan), KUKA(Germany), Mitsubishi Electric (Japan), Denso (Japan), ACEITA (US), Brain (US), Dynamic Robotics (India), KEBA (Austria) and so on are some of the key players in the robot controller, integrator and software market.

The study includes an in-depth competitive analysis of these key players in the robot controller, integrator, and software market, with their company profiles, recent developments, and key market strategies.

Research Coverage

This research report categorizes the robot controller, integrator, and software market by robot type (industrial, service), by industry (automotive, e-commerce & logistics, healthcare, metals & machinery, electrical & electronics, food & beverage, plastics, and chemical, and others), and by region (North America, Europe, Asia Pacific, and RoW). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the robot controller, integrator, and software market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, and services; key strategies; Contracts, partnerships, agreements, new product & service launches, mergers, and acquisitions. And recent developments associated with the robot controller, integrator, and software market. This report covers the competitive analysis of upcoming startups in the robot controller, integrator, and software market ecosystem.

Reasons to buy this report

The report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall robot controller, integrator, and software market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Escalated demand for industrial automation in several industries, rising deployment of robots in critical industries for precision and

accuracy, increasing labor costs, and skilled labor shortages are increasing the demand for robots, rise of Industrial and collaborative robots is fueling the demand for robot integrators, controllers, and software), restraints (Interoperability and workforce skills), opportunities (Increasing technological developments in robotics, Expansion of E-commerce and Logistics), and challenges (High Costs associated with integration of robots, Limited Industry Standards) influencing the growth of the robot controller, integrator and software market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the robot controller, integrator, and software market

Market Development: Comprehensive information about lucrative markets – the report analyses the robot controller, integrator, and software market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the robot controller, integrator, and software market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like ABB (Switzerland), FANUC(Japan), Yaskawa Electrics (Japan), KUKA(Germany), Mitsubishi Electric (Japan), Denso (Japan), ACEITA (US), Brain (US), Dynamic Robotics (India), KEBA (Austria), among others in the robot controller, integrator and software market.

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*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

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