

Motion Control Market Size is Expected to Reach US\$ 27.2 Billion by 2032 at a CAGR of 5.4% | insightSLICE

The Global Motion Control Market was estimated to be US\$ 16 billion in 2022 and is expected to reach US\$ 27.2 billion by 2032.

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/EINPresswire.com/ -- Special

equipment called motion controllers

regulates the engine modes of operation. It serves as the primary processing unit for all motion control systems. As a result, its job is to instruct the motor on what to do in accordance with the desired production result. In reality, a motion controller determines the paths that the



The global adoption of the Industrial Internet of Things and/or smart factories is anticipated to drive the motion control customer's expansion in the ensuing years."

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computer's engine must follow to carry out the instructions and comprises the motion profiles and destination coordinates for the application to operate.

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Since integrated motion management is frequently used, computers keep an eye on the real trajectory and adjust any alignment or speed mistakes. The motion controller produces motion characteristics when generating motor

(and/or actuator) trajectory. Those represent time-related sequences of positioning signals that tell the motor when and how rapidly to position an object. The motion controller subsequently employs the produced trajectories to produce the proper torque requests, which then get sent to the drive.

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The Global Motion Control Market was estimated to be US\$ 16 billion in 2022 and is expected to reach US\$ 27.2 billion by 2032 at a CAGR of 5.4%. The primary factors propelling the



advancement of the worldwide motion control market are the growing number of production sectors, greater adoption of automated processes in the industry, development of improved control terminology, and expansion of the Industrial Network of Everything.

In both the continuous and chemical businesses, motion control is essential for effective manufacturing processes. By enhancing the way the process is run, it helps to increase process efficiency. Due to the incorporation of cutting-edge technology during the past few decades, the control systems for motion parts have undergone tremendous evolution.



Motion Control Market- insightSLICE

The motion control industry has shown notable expansion over the past couple of decades, mostly driven by strong demand to deliver high volumes of output from industrial processes. Motion control devices and gadget makers are concentrating on integrating modern technologies in order in order to keep their goods compliant with the shifting business environment.

The global adoption of the Industrial Internet of Things and/or smart factories is anticipated to drive the motion control customer's expansion in the ensuing years. However, it is projected that the worldwide motion control market will experience a modest slowdown in the years to come due to the problems in manufacturing industries caused by the lockdown to stop the transmission of COVID-19.

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To strengthen the manufacturing industry's resistance to upcoming pandemics, digitization, automation, and machine learning (ML) are now more important than ever. A number of industry players are searching for various solutions to prevent future occurrences of supply chain outages and stoppage of production operations caused by social distance standards.

In such a case, the use of robotics and automation may reduce reliance on labor by humans, boost efficiency, and lessen the likelihood of manufacturing facility shutdowns. By combining automation with additional innovations like digitization and artificial intelligence, industries will be able to keep manufacturing without requiring manual oversight.

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Products, usage, end-use business, and region are used to segment the worldwide motion control market. The actuators & mechanical components, ac operates, electronics drives, dc engines, servomotors, mobility control devices, sensing & input equipment, and other categories make up the global motion control market.

The assembly/disassembly, conversion, inspection/measuring, transporting materials, metal manufacturing, packing, placement, cutting, trimming, & pruning, and others categories make up the worldwide motion control market. The aviation and defense, automobiles semiconductors and technology, metallurgy and mining, beverages and food, medical care, medication, rubber and plastics, textiles & textile, and others segments make up the worldwide motion control market.

Global Motion Control Market Segmentation:

The global motion control market is divided into five regions according to location: North America, Europe, Asia-Pacific, the Arabian Peninsula & Africa, and South America. The Asia-Pacific region led the world marketplace for motion control in 2019 and is expected to continue to do so all over the course of the period of forecasting.

Throughout the projected period, it is anticipated that the development of the Southeast Asia and Pacific motion control market would be aided by the rise of manufacturing, increasing automation in industry, and the existence of key players in several important Asian nations. Due to the significant involvement of major companies in several important nations, Europe is anticipated to lead the way in the technological progress of motion control elements like motion controllers, servo motors, and electrical actuators over the forecast period.

Over the period of forecasting, North America is also anticipated to experience consistent growth and will reach on par with Europe in terms of sales and revenue.

Major Companies in the Global Motion Control Market:

Allied Motion Inc., ABB, Delta Electronics, Inc., Kollmorgen Corp, Dover Motion, Fuji Electric Co., Ltd., National Instruments, Altra Industrial Motion, Siemens AG, Moog Inc., Eaton, Omron Corporation, Rockwell Automation Inc., Parker-Hannifin Corporation, Schneider Electric, Toshiba Corporation, YASKAWA Electric Corporation, and Yokogawa Electric Corporation are some of the major companies operating in the global motion control market.

Motion control technologies are being adopted by producers more frequently in a variety of industries in an effort to automate their production processes more quickly and affordably. Motion control market participants continue to deploy PC-based devices and controllers in large numbers.

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- Actuators & mechanical systems
- AC drives
- Electronic drives
- AC motors
- Servo motors
- Motion controllers
- Sensors & feedback devices
- Others

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- Assembly/disassembly
- Converting
- Inspection/measuring
- Material handling
- Metal fabrication
- Packaging
- Positioning
- Slicing
- Shearing & cutting
- Others

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- Aerospace and Defense
- Automotive
- Semiconductor and Electronics
- Metal and Mining
- Food and Beverages
- Healthcare
- Others

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- North America
 - > United States
 - > Canada
 - > Rest of North America

- Europe
 - > Germany
 - > United Kingdom
 - > Italy
 - > France
 - > Spain
 - > Rest of Europe

- Asia Pacific
 - > Japan
 - > India
 - > China
 - > Australia
 - > South Korea
 - > Rest of Asia Pacific

- Middle East & Africa
 - > UAE
 - > Saudi Arabia
 - > South Africa
 - > Rest of the Middle East & Africa

- South America
 - > Brazil
 - > Rest of South America

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