

Industrial Robotics Market - Forecasts from 2020 to 2025

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Abstracts

Industrial Robotics market is projected to grow from US\$45.762 billion in 2019 to US\$66.841 billion in 2025, at a CAGR of 6.52% during the forecast period. Growing adoption of automation solutions across end-use industries due to rising labor costs and stringent regulations regarding workers' safety is driving the industrial robotics market growth. Robotics makes the manufacturing and packaging more efficient by ensuring the quality of the products, checking product safety, preventing defective products or damaged products from entering the market, and tracing the products. The demand for maximizing production and in limited time is influencing manufacturers to invest in industrial robots. Implementation of advanced technologies like laser cutting, laser welding application, sensor technology, and robotics arms is helping the industry to reduce cost and save time. Robot increase accuracy even at high speed, detecting errors, defects with sensors helps in reducing rework and wastage. The surging usage of industrial robotics for tasks such as sheet handling and welding in heavy industries has resulted in a reduction in manufacturing cycle time and raw material wastage, thereby positively impacting the demand for industrial robotics solutions. Robotics market to see a rise in demand due to the increase in focus for providing safety to workers, declining prices of chips and sensors, growing demand for automation and surveillance, and advancement in technology.

By Type

The Industrial Robotics market is segmented by type as SCARA, articulated, Cartesian, and others. A cartesian robot is used for picking and placing work in assembly operations, handling machine tools, application of sealant, and arc welding. Cylindrical robots are used for spot welding, assembly operations, handling at machine tools, and handling at diecasting machines. Scara robots do have a similar application like a

Cartesian robot. An articulated robot is a robot with at least three rotary joints. Robot controller help in controlling the task performed in the production process. The robotic arm is a mechanical arm, usually programmable with function similar to a human arm. Articulated robots are projected to lead the global industrial robotics market throughout the forecast period, with the largest market share, in terms of value, in 2016. These robots are widely used across various industries owing to their structural and operational capabilities. Healthcare and packaging sectors are increasingly deploying articulated robots contributing to the global growth of articulated industrial robotics market.

By End-User Industry

The market is also segmented by end-user industry as automotive, manufacturing, food and beverage, chemical, consumer electronics, and others. The automotive industry is one of the largest end-users of industrial robotics owing to the adoption of the assembly line in the industry as it helps in improving quality and reduces warranty costs provides safety to workers and saves them from performing hazardous and difficult jobs. The food and beverage industry will see potential growth due to the rising demand for processed food and beverage products, especially in developing countries. Robots help in preventing contamination of food and help in increasing the efficiency by high output rate. Electronics will witness the fastest growth due to swelling demand for efficient electronic products, miniaturization of electrical and electronic equipment and the growing complexity of the manufacturing processes.

By Geography

Geographically, the industrial robotics market is classified into North America, South America, Europe, Middle East, and Africa, and the Asia Pacific. The report also analyses major countries across these regions with complete analysis and forecast along with prevailing market trends and opportunities which each of these countries present for the manufacturers. This rapid growth is attributed to the booming demand for industrial robotics from growing end-use industries in the region. Increasing manufacturing activities in economies such as China and India coupled with favorable government initiatives will further propel the market growth in the coming years. Industrialization is growing the demand for automation and robotics market in the Asia Pacific region.

Competitive Insights

Key market players in the Industrial Robotics market include ABB, Yamaha Motor

Company, Fanuc Robotics Company, Kawasaki Robotics, and Mitsubishi Electric Corporation among others. The players are adopting various strategies such as new product launch, M&A, partnerships, and business expansion to gain a competitive advantage in the global Industrial Robotics market. Recently in October 2019, ABB announced 150 million investments in Shanghai, China for building and advanced robotic factory for manufacturing robots. YASKAWA in September 2018 launched the heavy-duty MH900 6-axis articulated robot with a 900 kg payload capacity with large horizontal and vertical reach, suited for heavy material handling applications.

Segmentation

The global industrial robotics market is segmented by type, end-user industry, and geography.

By Type

SCARA

Articulated

Cartesian

Others

By End-User Industry

Automotive

Manufacturing

Food and Beverage

Chemical

Consumer Electronics

Others

By Geography

North America

USA

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

Germany

France

United Kingdom

Spain

Others

Middle East and Africa

Saudi Arabia

Israel

UAE

Others

Asia Pacific

China

Japan

South Korea

India

Others

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